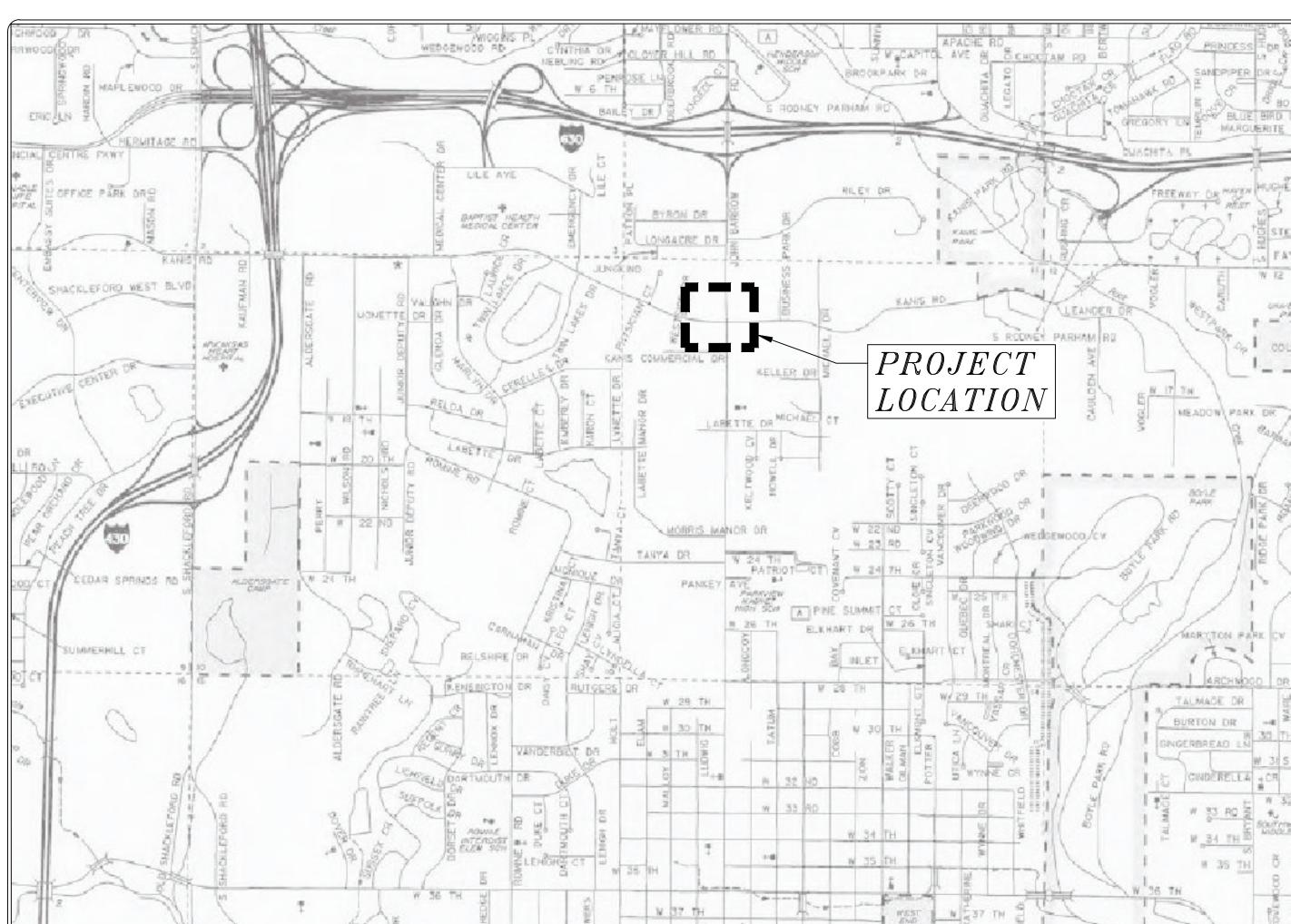
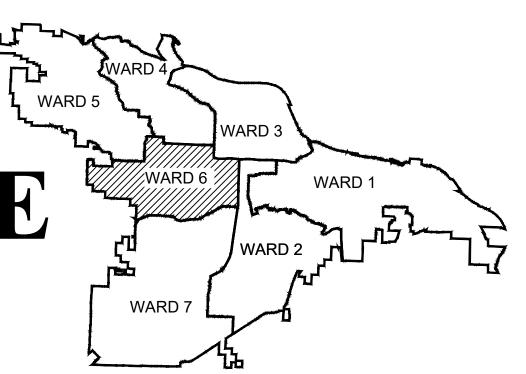
JOHN BARROW RD STREETSCAPE

(JOHN BARROW RD/KANIS RD INTERSECTION)

100% SUBMITTAL



0.34		
SANDPIPER DR W		Sheet Numb
EN BLUE BIRD OR		C0.0
		C1.1
TOR MAYON HUGHES		C2.1
		C3.1
TO STAY		C4.1
\$ W 12 TH		C5.1
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ARCHWOOD OR		
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PEREAD LN 30 TH		
CHOCKELLA CH		
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PROJECT LOCATION - WARD 6

Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.1	GN LEGEND AND QUANTITIES SHEET
C2.1	DEMO AND EROSION PLAN
C3.1	SITE PLAN
C4.1	SIGNAL PLAN
C5.1	DETAIL SHEET
C5.2	DETAIL SHEET
C5.3	DETAIL SHEET
C5.4	DETAIL SHEET
SD-11	STEEL POLE WITH MAST ARM

Know what's below. Call before you dig.

2019-2021 BOND PROGRAM DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 WEST MARKHAM STREET

LITTLE ROCK, ARKANSAS 72201



REVISIONS DATE

W RD STREETSCAPE

COVER SHEET JOHN BARROW RD & KANIS RD

CIVIL ENGINEERING
701 W. MARKHAM
TTLE ROCK, ARKANSAS 72201

100% SUBMITTAL

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LCJ
DESIGNED
SBH
CHECKED
SBH
DATE
06-13-25
SCALE
NO SCALE
PROJECT NO.
06-17-ST-267
SHEET NO.

C0.0

06-17-ST-267 JOHN BARROW RD AND KANIS RD INTERSECTION - MATERIAL QUANTITIES ITEM # DESCRIPTION QTY 2.01 SITE PREPARATION 3.40 TOPSOIL (4" depth) 2 6.01 ACHM OVERLAY 2" 90 8.03 CONCRETE CURB (TYPE A) 30 14.01 SOLID SODDING- BERMUDA 185 16.01 MAINTENANCE OF TRAFFIC 18.50 ACCESS RAMP W TRUNCATED DOMES 605 604.01 HYDROBLASTING FOR PAVEMENT MARKING REMOVAL 34 707.00 COUNTDOWN PED SIG HEAD, LED 8 270 708.00 ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.) LF 708.00 TRAFFIC SIGNAL CABLE (5C / 14A.W.G.) 1100 708.00 TRAFFIC SIGNAL CABLE (10C / 14A.W.G.) 350 710.00 NON-METALLIC CONDUIT (2") 130 710.00 NON-METALLIC CONDUIT (3") 20 715.00 TRAFFIC SIGNAL PED. POLE W/ FND 2 715.01 TRAFFIC SIGNAL PED. PUSH BUTTON PEDESTAL W/ FND 4 719.24W THERMOPLASTIC PAVEMENT MARKING WHITE (12") 157 SP STAMPED AND INTEGRAL COLORED CONCRETE 2056 845 SP CONCRETE BAND- CROSSWALKS SP NEIGHBORHOOD SIGN SP ELECTRICAL LS 1 19.01 FINAL CLEANUP (AS DIRECTED BY ENGINEER)

2

BY OTHERS

EASEMENTS

UTILITY RELOCATION

EXISTING

IRON ROD	O IR	
PK NAIL	O PK	
R.R. SPIKE	O RR(Sp)	
CONC. MONUMENT	□ CM	
WATER METER	X WV	
WATER METER	□ WM	
FIRE HYDRANT	∀ FH	
GAS METER	☑ GM	
GAS VALVE	⊗ GV	
CLEAN-OUT	O CO	
GUARD POST (BOLLARD)	● GP	
SIGN POST	- 0 1	
BENCHMARK	-	
STORM SEWER MANHOLE	D	
SANITARY SEWER MANHOLE	S	
TELEPHONE MANHOLE	T	
ELECTRIC MANHOLE	E	
TELEPHONE BOX		
ELECTRIC BOX	E	
CABLE BOX		
UTILITY POLE	⊕ 	
GUY WIRE	€	
LIGHT POLE	\$	
	_	
POST OR POLE (TYPE AS NOT	,	
MAILBOX		
DECIDUOUS TREE		
EVERGREEN/CONIFEROUS TREE		
,	~ [\rangle	
BUSH	\mathcal{E}^{*}	
-	رس	
PROPERTY LINE		
SETBACK LINE		
EASEMENT LINE		
CURB		
FENCE	XX	x —
OVERHEAD ELECTRIC	OE	0E
OVERHEAD TELEPHONE	OT	от —
OVERHEAD CABLE	oc	ос —
UNDERGROUND TELEPHONE	——— UGT—	
UNDERGROUND ELECTRIC	UGE	
UNDERGROUND CABLE		
WATER LINE	8"W	
SEWER LINE	8"SS	
GAS LINE	4"G	
CTODAL CEMED (OLIL VEDT	24" CMP/RCP/DIP	

STORM SEWER/CULVERT

CONTOUR LINE

EDGE OF WOODS

	O ID	PROPOSED CONTOUR	25)
	O IR O PK	PROPOSED SPOT ELEVATION	(25.00)
	O RR(Sp)	PROPOSED SPOT CURB ELEVATION	<u>25.50</u>
	□ CM Ⅹ WV	STORM SEWER - PIPE	25.00
	□ WM	STORM SEWER - MITERED END SECTION	
	Ծ́FH ☑ GM	STORM SEWER - GRATE INLET	
	⊗ GV	STORM SEWER — JUNCTION BOX	
	O CO	STORM SEWER - JUNCTION BOX	
	● GP - o -	STORM SEWER - FLARED END SECTION	
	•	STORM SEWER — HEADWALL	abla
_	(D)	STORM SEWER - SINGLE WING	
	(S)	STORM SEWER - DOUBLE WING	
	T	STORM SEWER - AREA INLET	
	E	GRADE BREAK LINE	
	T E	HIGH POINT LOW POINT	HP LP
	C	CUT LINE	— C—
	O	FILL LINE	— F —
	← ☆	SANITARY SEWER PIPE	—— SAN——
NOTED)	<u> </u>	SANITARY SEWER MANHOLE	(s)
		PROPOSED CURB PROPOSED CONCRETE	
DEE		CONSTRUCTION — ENTRANCE/EXIT	(0)
REE	羽 下	CHECK DAM	(CD)
	£ ()	DIVERSION BERM	DI
		DOWNDRAIN STRUCTURE — TEMPORARY	(DN)
		ROCK DAM	RD
	xx	SEDIMENT BARRIER - SILT FENCE	(SD1)
— OE - — OT -	OE —— OT ——	SEDIMENT BARRIER - GRAVEL RING	SD2)
	OC	SEDIMENT BARRIER - BLOCK & GRAVEL	SD3
	UGE	SEDIMENT BARRIER - BLOCK	SD4)
	8"W	TEMPORARY SEDIMENT BASIN	(SB1)
	8"SS	SILT FENCE - TYPE A	(SFA)
	24" CMP/RCP/DIP	SILT FENCE - TYPE B	(SFB)
	, mmmu	SILT FENCE - TYPE C	SFC
	650	STORM DRAIN OUTLET PROTECTION	ST
		SURFACE ROUGHENING	SU
		DISTURBED AREA STABILIZATION -TEMPORARY STABILIZA	
		DISTURBED AREA STABILIZATION -TEMPORARY GRASSING	TS2
		DISTURBED AREA STABILIZATION -PERMANENT GRASSING	TS3
		MATTING/BLANKETS	Mb
		CONCIDUCTION LIMITS	

CONSTRUCTION LIMITS

PROPOSED



_ __ _



REVISIONS DATE

CK, ARKANSAS STREETSCAPE

ROCK, OF JOHN CITY

GN LEGEND AND QUANTITIES SHEET JOHN BARROW RD & KANIS RD INTERSECTION

100% SUBMITTAL

DRAWN BY LCJ DESIGNED SBH CHECKED SBH DATE 06-13-25

SCALE NO SCALE

PROJECT NO. 06-17-ST-267

SHEET NO. C1.1

DEMOLITION GENERAL NOTES

- 1. ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION SHOWN ON PLANS.
- 2. CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL MUNICIPALITIES AS WARRANTED. CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT PRIOR TO START OF PROJECT.
- 3. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES. OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- 4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, HIS/ HER REPRESENTATIVE, OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
- 5. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND LANDSCAPE ARCHITECT ANY UNFORESEEN OR ADVERSE CONDITIONS DISCOVERED DURING DEMOLITION OPERATIONS.
- 6. ALL TRENCHES AND/OR VOIDS CREATED BY THE REMOVAL OF EXISTING STRUCTURES & SITE ELEMENTS SHALL BE BACKFILLED PER LOCAL AND STATE REGULATIONS.
- 7. THE LOCATION AND SIZE OF KNOWN EXISTING ABOVE GROUND UTILITIES ARE NOT SHOWN ON THE SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ARE ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY CALL ARKANSAS 811 AND COORDINATE UTILITY WORK WITH PULASKI COUNTY FOR COMPLIANCE WITH LOCAL CODES AND ORDINANCES.

8. THE CONTRACTOR SHALL PROTECT ALL EXISTING POWER POLES, MANHOLES, TELEPHONE RISERS, WATER VALVES, POND WALL, ETC., DURING ALL CONSTRUCTION PHASES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY

OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO

COMMENCING ANY PROJECT WORK.

- EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. 9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR
- 10. ALL DEMOLITION DEBRIS AND OTHER EXCESS MATERIAL SHALL BE HAULED OFF-SITE AS DIRECTED BY THE OWNER AND PROPERLY
- DISPOSED OF IN A LEGAL MATTER, UNLESS OTHERWISE NOTED. 11. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE
- FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.

EROSION NOTES

- 3. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN STREET GUTTERS WITHIN SCOPE OF WORK.
- 4. EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTROL METHODS FOR OWNER'S APPROVAL. PRIOR TO PROJECT
- 1. PROVIDE SILT FENCE EROSION CONTROL, IF NECESSARY.
- 2. ANY ACCIDENTAL RELEASE OF SEDIMENT FROM THE SITE SHALL AND ACCESSIBLE THROUGHOUT CONSTRUCTION. TEMPORARY WALKS, BE CLEANED UP BY THE CONTRACTOR.

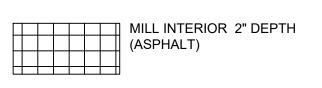
 - CONTRACTOR. CONTRACTOR TO PROVIDE LOCATION OF EROSION COMMENCEMENT.

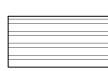
LEGEND





REMOVE SIDEWALK AND DRIVEWAY (CONCRETE)





REMOVE EXISTING **NEIGHBORHOOD SIGN**



■ REMOVE CONCRETE **CURB & GUTTER**



SCALE: 1" = 40'-0"GRAPHIC SCALE



100% SUBMITTAL

REVISIONS

APE

SC,

STREET

RD

JOHN

ARKANSAS

ROCK,

OF

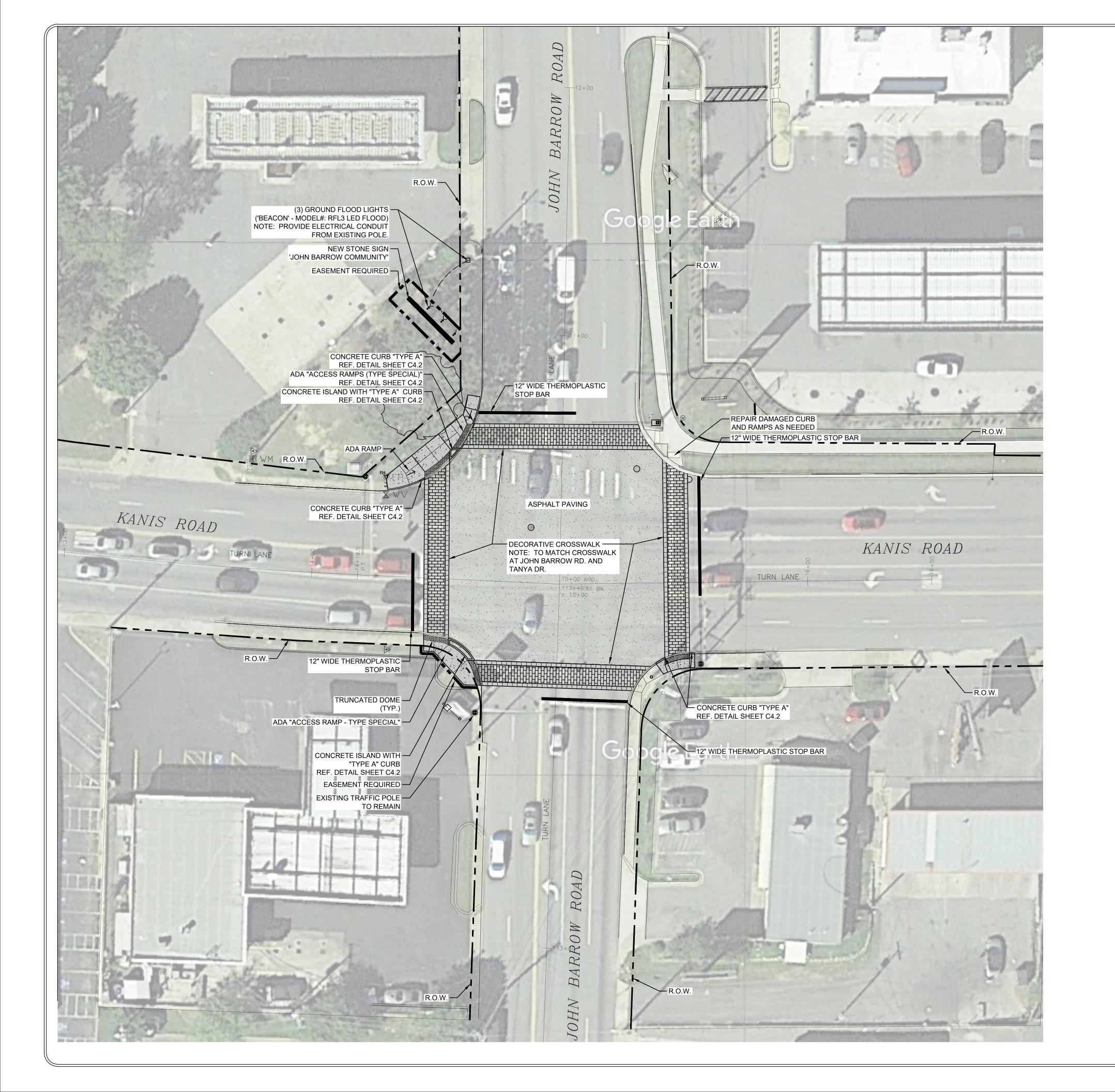
CITY

DRAWN BY LCJ **DESIGNED** SBH CHECKED SBH **DATE**

06-13-25 SCALE 1" = 20'-0"

PROJECT NO. 06-17-ST-267

> SHEET NO. C2.





4" THICK CONCRETE WALK

2" DEPTH ASPHALT PAVING

COLORED AND PATTERNED CONCRETE CROSSWALK (TYP.)

CONCRETE CROSSWALK BANDS (BOTH SIDES OF CROSSWALK)

NOTES

1. REFER TO SHEET C1.1 FOR ADDITIONAL INFORMATION.

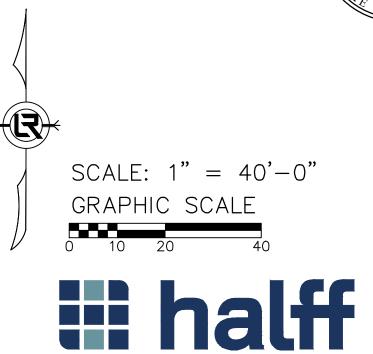
(TYP.)

- 2. ALL BUSINESSES AND RESIDENCES TO REMAIN OPEN, OPERABLE AND ACCESSIBLE THROUGHOUT CONSTRUCTION. TEMPORARY WALKS, BARRIERS AND DIRECTIONAL SIGNAGE TO BE INSTALLED AS NEEDED TO ASSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS.
- 3. CONTRACTOR TO COMPLETE ONE CORNER SECTION AT A TIME FROM DEMOLITION THROUGH INSTALLATION OF CURB AND SIDEWALKS. TOPSOIL AND LANDSCAPE MAY BE INSTALLED AT ONCE THROUGHOUT PROJECT.
- 4. ALL UNDERGROUND UTILITIES TO REMAIN UNLESS NOTED OTHERWISE ON THESE PLANS.
- 5. ALL UTILITIES, VALVES, METERS, FIRE HYDRANTS, THAT FALL INSIDE THE PROPOSED STREETSCAPE PROJECT ARE TO BE FLUSH WITH THE PROPOSED FINISHED GRADE.
- 6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING MARKING OF THE UTILITIES WITH 'ONE-CALL' AND THE CITY OF LITTLE ROCK.
- 7. PROVIDE 36" ACCESSIBLE ROUTE AROUND SIGNAL POLES. CONTACT CITY FOR REVIEW PRIOR TO INSTALLATION OF SIDEWALKS / RAMPS.
- 8. PCE WILL BE REQUIRED FOR ANY WORK INCLUDING WALKS, LIGHT POLES, ETC. WITHIN R.O.W.

SIDEWALK NOTES

- 1. SIDEWALK TO BE NO MORE THAN 5% LONGITUDINAL SLOPE ACROSS SLOPE 2% MAX.
- 2. CONTRACTOR TO PROVIDE STAKEOUT OF SIDEWALK / BOARDWALK DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.





REVISIONS DATE

ARROW RD STREETSCAPE
SITE PLAN
OW RD & KANIS RD INTERSECTION

ARKANSAS

ROCK,

TLE

OF

CITY

JOHN

PUBLIC WORKS

CIVIL ENGINEERING 701 W. MARKHAM

100% SUBMITTAL

DRAWN BY
LCJ
DESIGNED
SBH
CHECKED
SRH

SBH DATE 06-13-25

SCALE 1" = 20'-0"

PROJECT NO. 06-17-ST-267

SHEET NO.

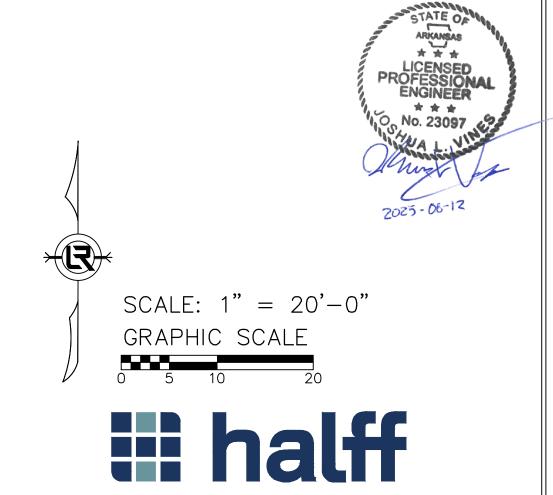
KANIS ROAD AND JOHN BARROW ROAD

	POLE DIMENSIONS							
ı	POLE	MAST	* MAST ARM	** HAND	VERT.	LUM.	* LUM.	
	1 022	ARM	ANGLE	HOLE	SHAFT	ARM	ANGLE	
ı	Α			EXISTIN	G			
	В		EXISTING					
	С			EXISTIN	G			
	D		EXISTING					
	E	N/A						
	F	N/A	N/A	N/A	12'	N/A	N/A	
	G	N/A	N/A	N/A	4'	N/A	N/A	
	Н	N/A	N/A	N/A	4'	N/A	N/A	
	I	N/A	N/A	N/A	12'	N/A	N/A	
	J	N/A	N/A	N/A	4'	N/A	N/A	

POLES E, G, H, & J (SEE PEDESTRIAN PUSH BUTTON PEDESTAL DETAIL).
POLES E, G, I, AND J FOUNDATIONS SHALL BE INSTALLED FLUSH WITH THE SIDEWALK.
TOP OF POLES F & H FOUNDATION ELEVATIONS SHALL BE THREE (3) INCHES ABOVE
THE FINISHED SURFACE ELEVATION.

NOTES

- 1. REFER TO SHEET C1.1 FOR ADDITIONAL INFORMATION.
- 2. ALL BUSINESSES AND RESIDENCES TO REMAIN OPEN, OPERABLE AND ACCESSIBLE THROUGHOUT CONSTRUCTION. TEMPORARY WALKS, BARRIERS AND DIRECTIONAL SIGNAGE TO BE INSTALLED AS NEEDED TO ASSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS.
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- 7. PROVIDE 36" ACCESSIBLE ROUTE AROUND SIGNAL POLES.
 CONTACT CITY FOR REVIEW PRIOR TO INSTALLATION OF SIDEWALKS / RAMPS
- 8. PCE WILL BE REQUIRED FOR ANY WORK INCLUDING WALKS, LIGHT POLES, ETC. WITHIN R.O.W.
- 9. CONTRACTOR TO FIELD VERITY ALL EXISTING CONDUIT.
- 10. FOR PED HEAD P2 AND ASSOCIATED BUTTON, REUSE CABLE FOR EXISTING PED HEAD AND BUTTON ON POLE B.
- 11. FOR PED HEAD P7 AND ASSOCIATED BUTTON, REUSE CABLE FOR EXISTING PED HEAD AND BUTTON ON POLE D.
- 12. ALL NON-PEDESTRIAN SIGNALS TO REMAIN IN OPERATION THROUGHOUT THE PROJECT.
- 13. ALL NEW CONDUIT INSTALLED TO CONTAIN 2-1c / #8 E.G.C. CABLE.
- 14. ALL SIGNAL CABLES TO BE 14 A.W.G. UNLESS OTHERWISE NOTED.



REVISIONS DATE

OF LITTLE ROCK, ARKANSAS I BARROW RD STREETSCAPE

JOHN

CITY

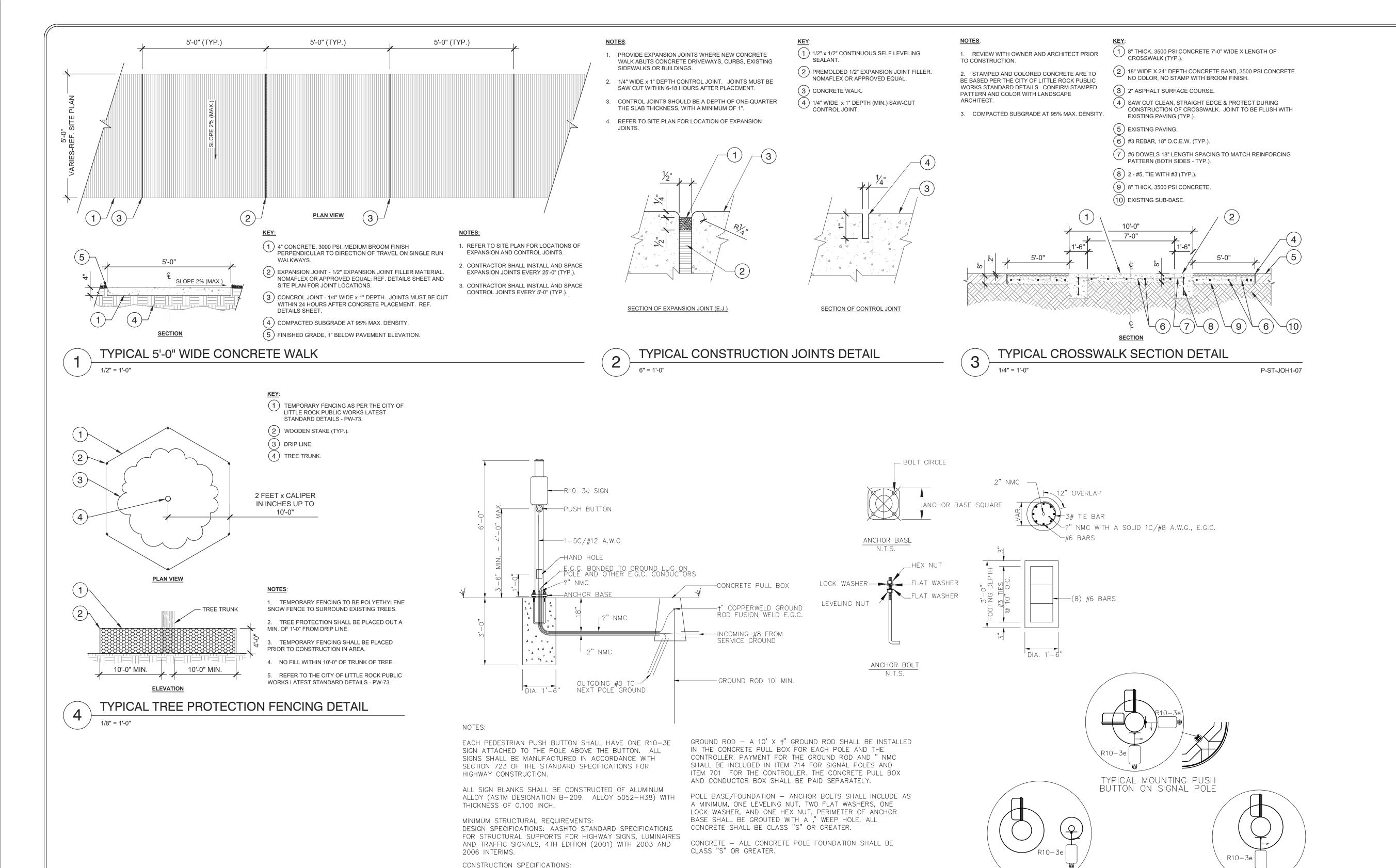
NEERING RKHAM

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SBH
DATE
06-13-25
SCALE
1" = 20'-0"

PROJECT NO. 06-17-ST-267 SHEET NO.

C4.1



TYPICAL MOUNTING PUSH BUTTON

ON PEDESTRIAN POLE AND PEDESTRIAN PUSH BUTTON POLE

TYPICAL MOUNTING PUSH BUTTON ON PEDESTRIAN POLE

AND SIGNAL POLE

STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL

POLE CAP - POLE CAPS SHALL BE PROVIDED, FABRICATED OF

HAND HOLE - HAND HOLES SHALL BE 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM

NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT

PEDESTRIAN PUSH BUTTON PEDESTAL DETAIL

BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACUUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO

SPECIFICATIONS AND SPECIAL PROVISIONS.

EITHER STEEL OR CAST ALUMINUM.

COVER FOR EACH ANCHOR BOLT.

REVISIONS DATE

ARKANSAS S Ш ROCK, Ш OF JOHN

CITY

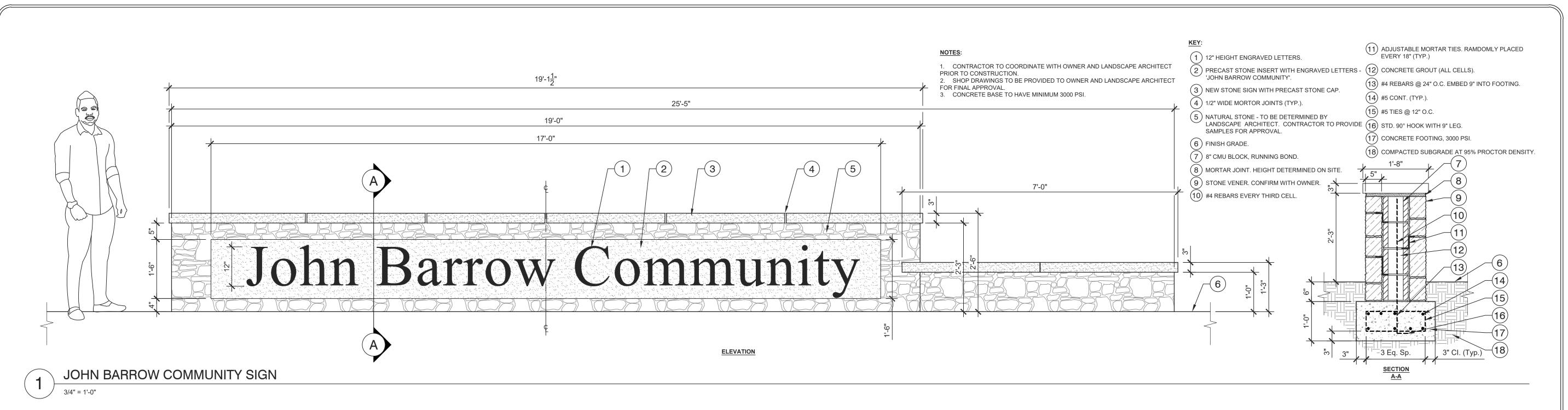
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ARKANSAS PROFESSIONAL ENGINEER * * * No. 23097 2025-06-12

DRAWN BY LCJ SBH

DESIGNED CHECKED SBH DATE 06-13-25 SCALE

PROJECT NO. 06-17-ST-267 SHEET NO.



REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS JOHN BARROW RD STREETSCAPE

RTMENT OF PUBLIC WORKS
CIVIL ENGINEERING

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06-13-25
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PROJECT NO. 06-17-ST-267 SHEET NO.

C5.2



TITLE

ACCESS RAMP (GENERAL NOTES & RAMP CRITERIA) AUG, 2006

Issue Date

50-65% BASE DIA.

2.4" Max. Base-Base

TRUNCATED -

(A) THE SLOPE OF THE RAMP SHALL NOT EXCEED 1:12 (8.33%). CONTRACTORS SHOULD FORM RAMPS AT A GRADE LOWER THAN 8.33% TO ALLOW ROOM FOR CONSTRUCTION TOLERANCES. POURING AND FINISHING RAMPS WITHOUT THE AID OF A DIGITAL LEVEL IN CHECKING GRADES IS DISCOURAGED, BECAUSE CONTRACTORS WILL BE REQUIRED TO REMOVE ANY RAMP WITH GRADES EXCEEDING REQUIREMENTS SHOWN IN STANDARD DETAILS. RAMP SURFACE SHALL BE COURSE BROOMED TRANSVERSE TO THE SLOPE. GROOVES/JOINTS ARE NOT TO BE INSTALLED IN THE RAMP SURFACE.

(B) THE MINIMUM THICKNESS OF RAMPS, SIDEWALKS AND LANDING AREAS SHALL BE 4 INCHES. CONCRETE TO BE MINIMUM 3000 p.s.i.. EXPOSED AGGREGATE CONCRETE SHALL NOT BE USED ON SURFACE RAMPS. WIRE REINFORCEMENT IS NOT REQUIRED IN RAMPS OR SIDEWALKS UNLESS SPECIFICALLY STATED IN DESIGN PLANS.

(C) THE MAXIMUM RAMP AND LANDING CROSS—SLOPED SHALL BE 2.0% UNLESS THE STREET GRADE EXCEEDS 2.0%, THEN THE CROSS—SLOPE OF THE RAMP SHALL MATCH THE STREET RUNNING GRADE. DO NOT PROVIDE TRANSITIONAL WARPS IN THE GUTTER, RAMP SURFACE OR LANDING AREA. THE STREET RUNNING GRADE IS MEASURED DIRECTLY IN FRONT OF THE RAMP WITH A 4 FOOT DIGITAL LEVEL AND IS THE GRADE OF THE STREET PERPENDICULAR TO THE RAMP SLOPE WHERE THE ASPHALT ABUTS THE GUTTER.

(D) GUTTER SHALL NOT EXCEED 5.0% DIRECTLY IN FRONT OF A CURB RAMP. NO LIP OR VERTICAL SEPARATION SHALL BE INSTALLED BETWEEN THE GUTTER AND THE RAMP.

(E) THE MINIMUM RAMP WIDTH SHALL BE 4 FEET. A THREE FOOT WIDE RAMP IS ACCEPTABLE ONLY IN THE CASE OF AN ÒBSTRUCTION AND WITH PUBLIC WORKS WRITTEN APPROVAL. CURB RAMPS, SIDEWALKS, MEDIAN CUTS AND CROSSWALKS SHALL BE ALIGNED UNLESS NOT POSSIBLE TO AID IMPAIRED USERS.

(F) RAMP SIDE FLARES SHALL NOT EXCEED 10.0% RELATIVE TO THE STREET. (EXAMPLE: IF THE STREET SLOPE IS 5.0% THEN THE SIDE FLARE SLOPE MAY BE UP TO 15.0% ON THE LOW SIDE TO ALLOW THE FLARE TO MATCH CURB HEIGHT IN A REASONABLE DISTANCE. THE SIDE FLARE SLOPE ON THE HIGH SIDE OF THE RAMP WOULD REMAIN AT 10.0% OR LESS GRADE SINCE IT WILL MATCH CURB HEIGHT QUICKLY).

(G) A MINIMUM 3 FOOT LONG SIDEWALK TRANSITION SHALL BE PROVIDED WHEN MATCHING CURB RAMP/LEVEL LANDING TO EXISTING SIDEWALKS WITH CROSS EXCEEDING 2.0%. ADDITIONAL TRANSITION LENGTH MAY BE REQUIRED WHEN MATCHING MATCHING TO EXISTING SIDEWALK WITH SEVERE CROSS SLOPE.

(H) MEDIAN CUTS: SHALL BE 6 FEET WIDE FOR TWO-WAY PEDESTRIAN TRAFFIC ALIGNED WITH CROSSING. MEDIAN CUT CROSS SLOPE SHALL BE MAXIMUM 2.0% OR MATCH STREET GRADE WHEN ROADWAY SLOPE EXCEEDS 2.0%.

(I) RAMP LENGTH IS LIMITED TO 15 FEET.

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF CURB.

TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.

DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINENT DIRECTION OF TRAVEL TO PERMIT THE WHEELS TO ROLL BETWEEN DOMES.

DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

DETECTABLE WARNING DEVICE SHALL BE ON THE AHTD QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).

> TYPE 1 CORNER LOCATIONS WITH WALK ADJACENT TO CURB BOTH NEW CONSTRUCTION AND ALTERATIONS

FIRST TYPE 2 CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE INSUFFICIENT TO ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)

TYPE 3 CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE SUFFICIENT TO

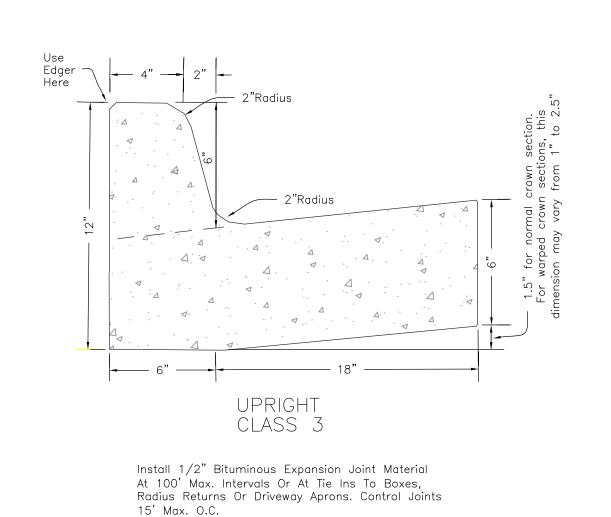
ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS) TYPE 4 TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS)

SECOND TYPE 5 TANGENT LOCATIONS (ALTERATIONS ONLY)



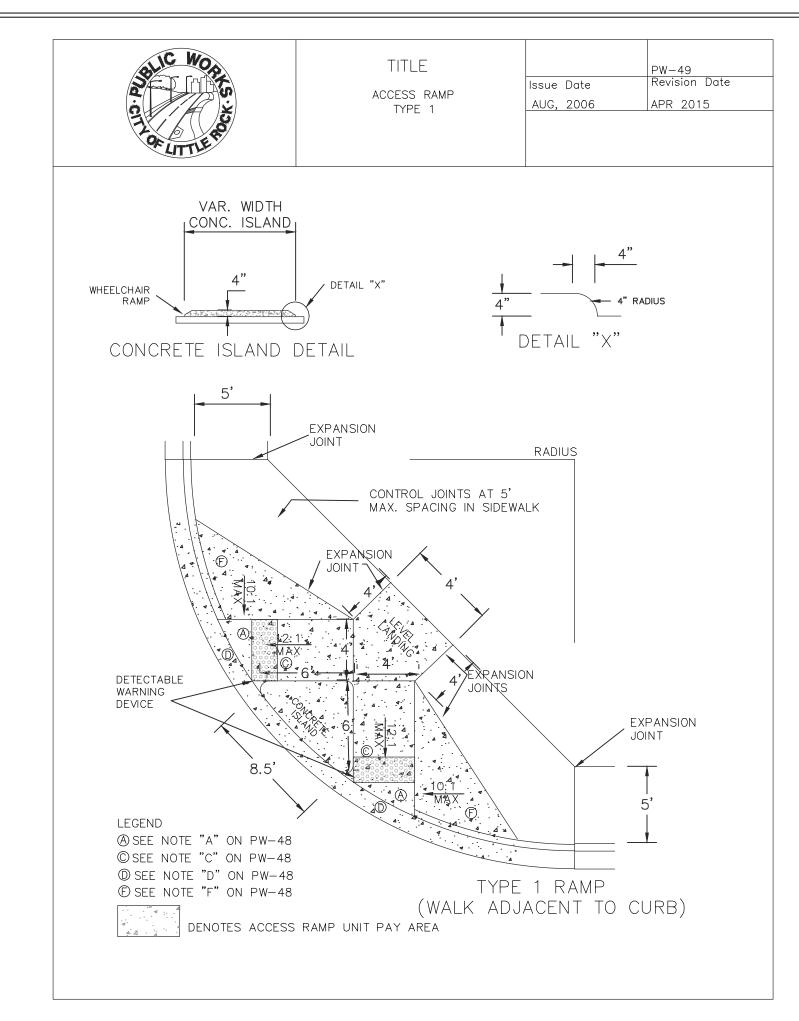
CURB & GUTTER SECTIONS

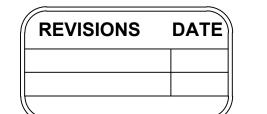
RESIDENTIAL & COLLECTOR STREETS Issue Date APR 2015 AUG, 2006



Joint Sealant Shall be Sonneborn SL2 Self Leveling Urethane

as Manufactured by Chemrex or Equivalent.





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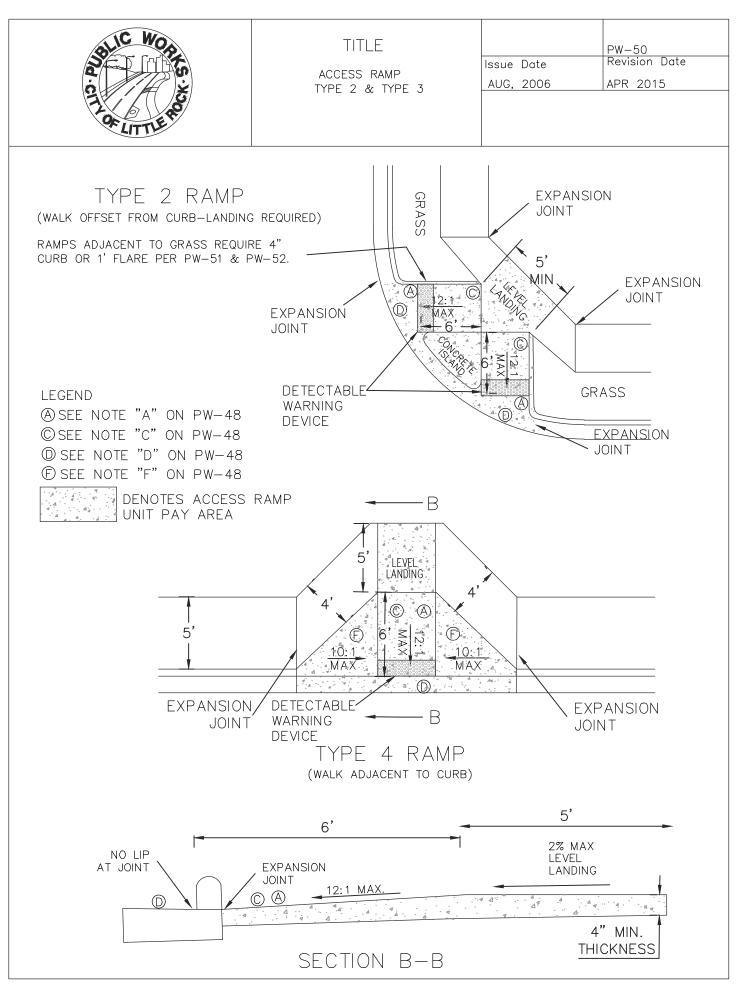
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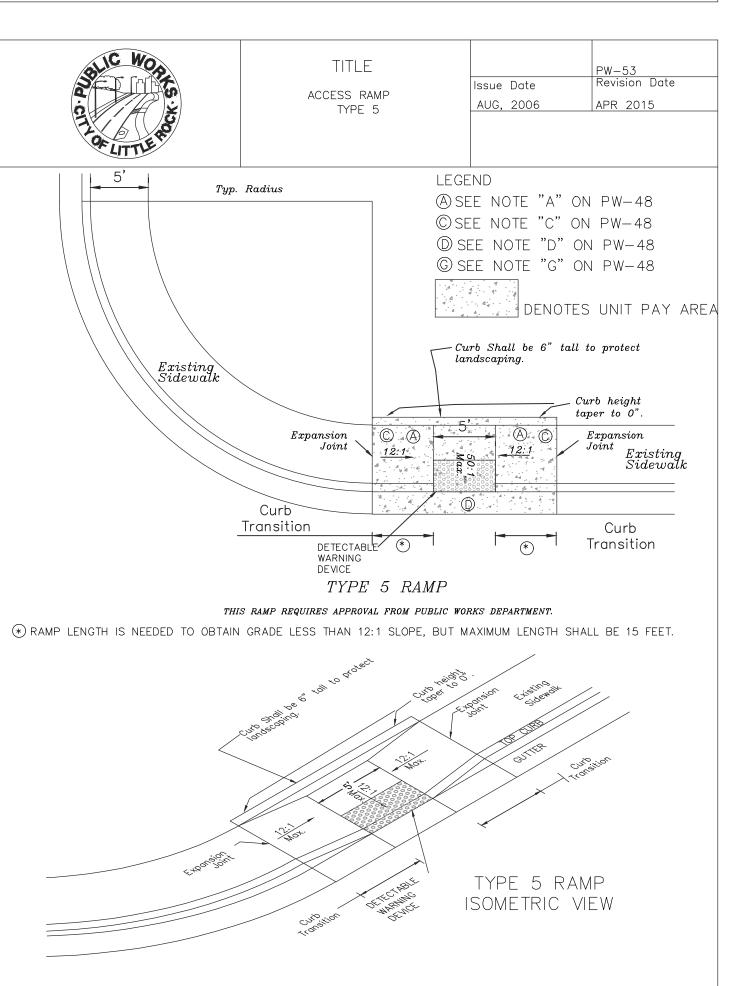
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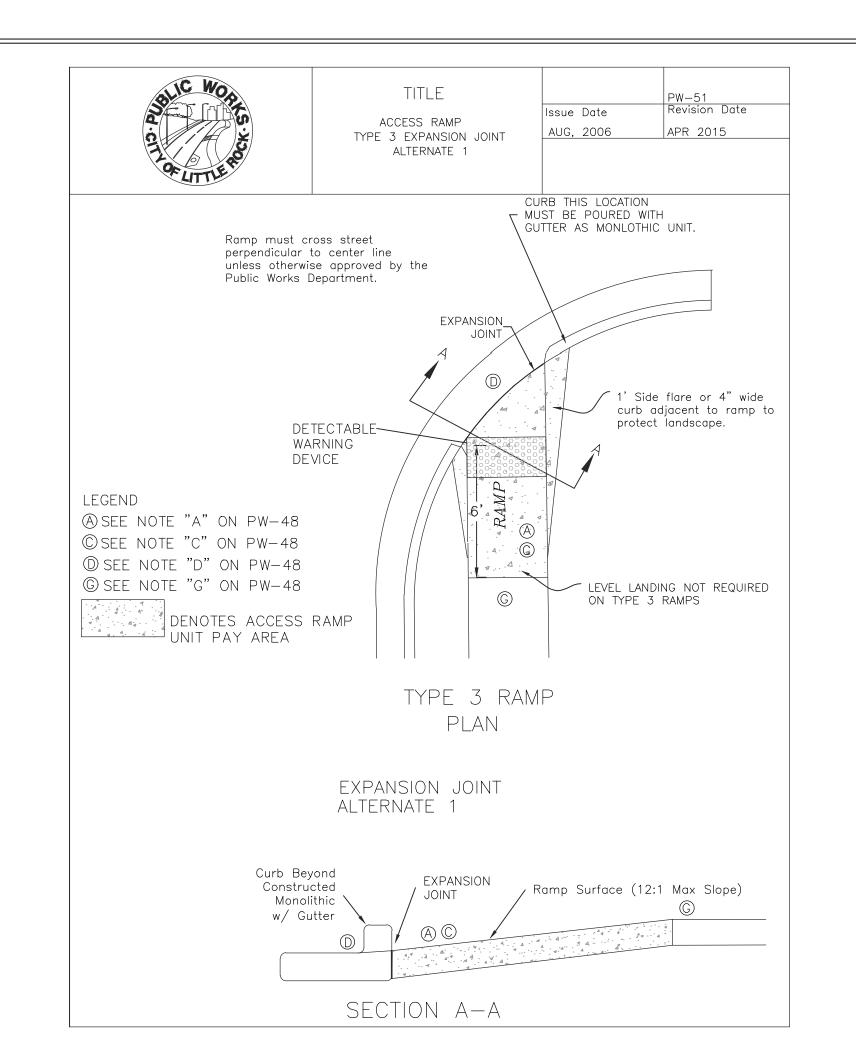
PROJECT NO. 06-17-ST-267

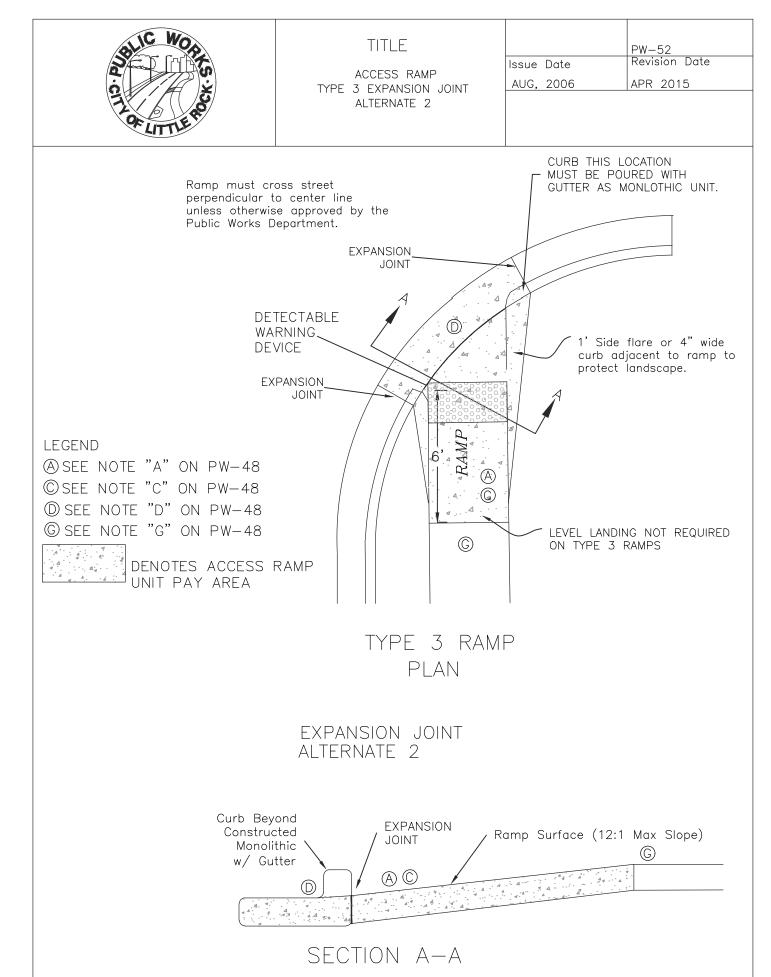
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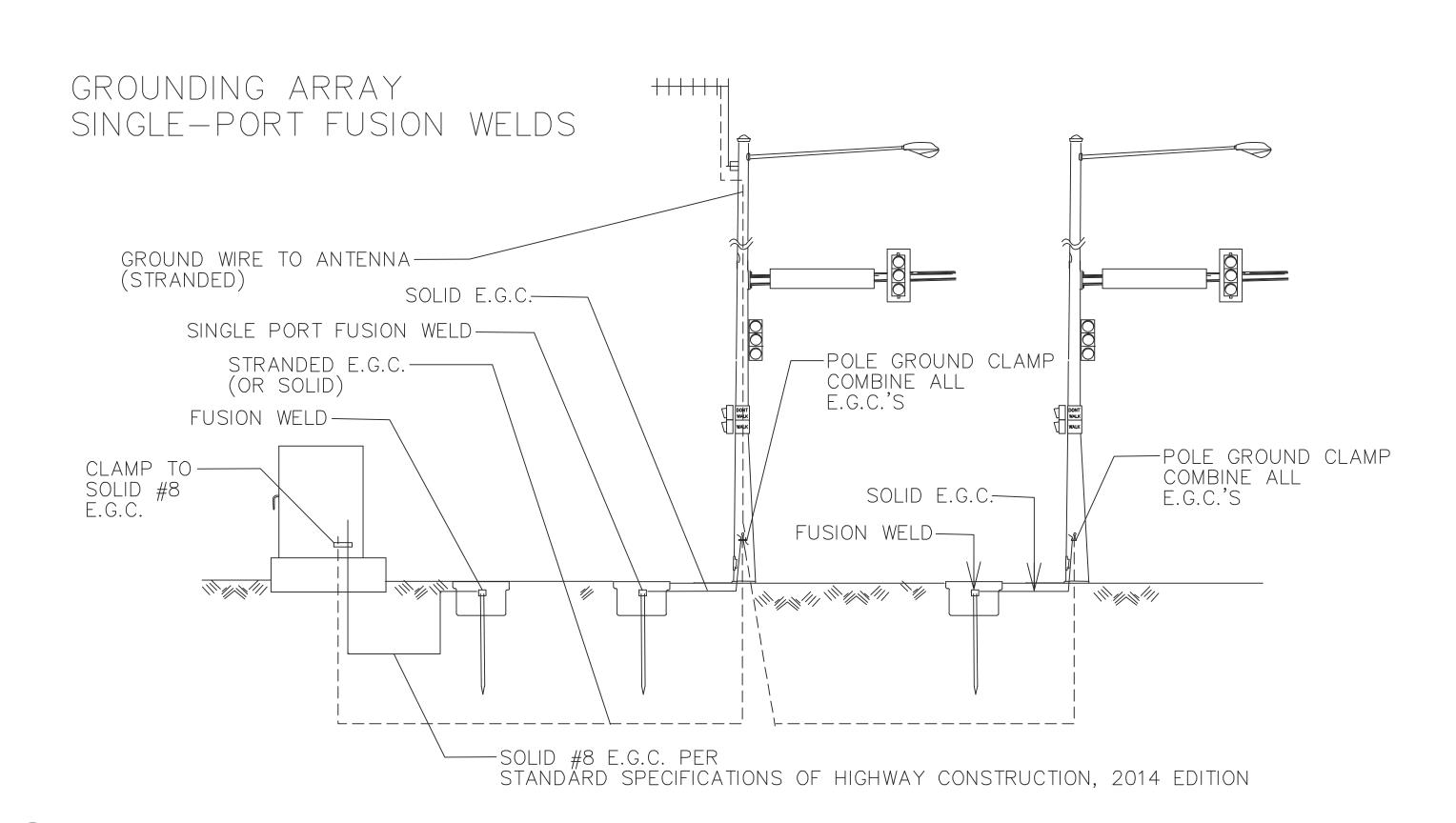
SHEET NO. C5.3

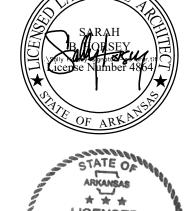


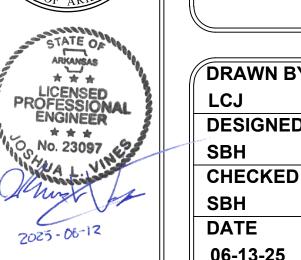












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DRAWN BY DESIGNED CHECKED 06-13-25 **SCALE**

PROJECT NO. 06-17-ST-267 SHEET NO.

C5.4

GROUNDING ARRAY DETAIL

REVISIONS DATE

FAIL SHEET & KANIS RD INTERSECTION

DET RD 8

JOHN BARROW

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PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS: EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., I-WAY)" SHALL INCLUDE A SIGN (RIO-12a) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., I-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-IO) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209, ALLOY 5052-H38) WITH THICKNESS OF 0.100 INCH.

GENERAL NOTES:

I. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS SPECIFICATIONS CAN BE INSTALLED IN LIEU OF ROUND. ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

3. MINIMUM STRUCTURAL REQUIREMENTS:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

USE FATIGUE CATEGORY I FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY II FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAN 60' AND ON ROUTES WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY III FOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN 1/2" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD: AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE

ALL SIGNAL HEADS TO BE ONE WAY, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., I4.5 SQ. FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD (2'-0" X 2'-6"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT. (3 SEC., 56 LB., 8.3 SO. FT.): DESIGN TO ACCOMMODATE:

2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT. 3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT. 4 SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18". 36 LB. MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT. ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) -VARIABLE ARM LENGTH (MAX. WT. 75 LB., 3.3 SQ. FT.) PEDESTRIAN SIGNALS - TWO I SEC., 12 INCH MOUNTED 8 FT. FROM BASE OF POLE. POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

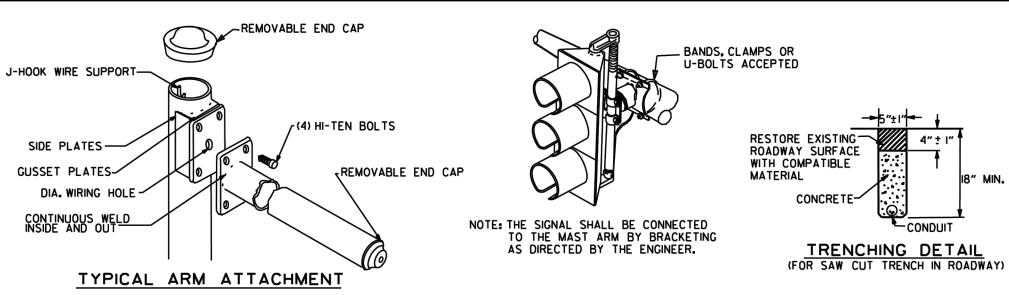
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALUMINUM.

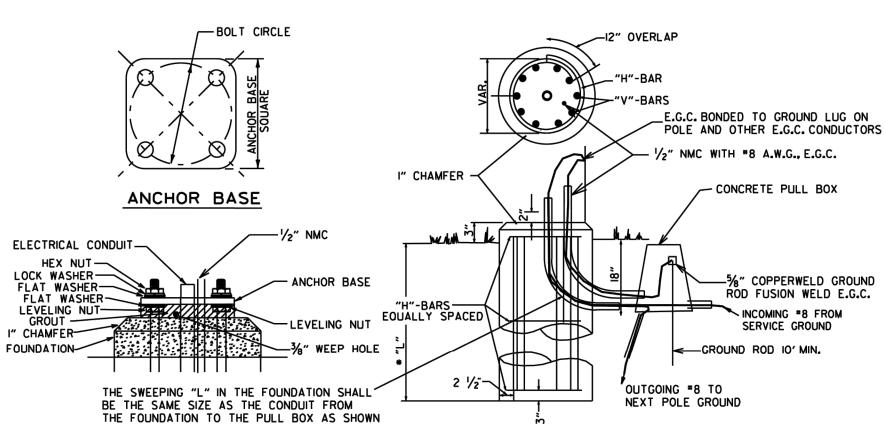
5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL. POLES GREATER THAN 21FT. IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDED A HAND HOLE WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

6. POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0.125 TO O.15 INCHES PER FOOT.

MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED UNDER LOAD.

7. NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.





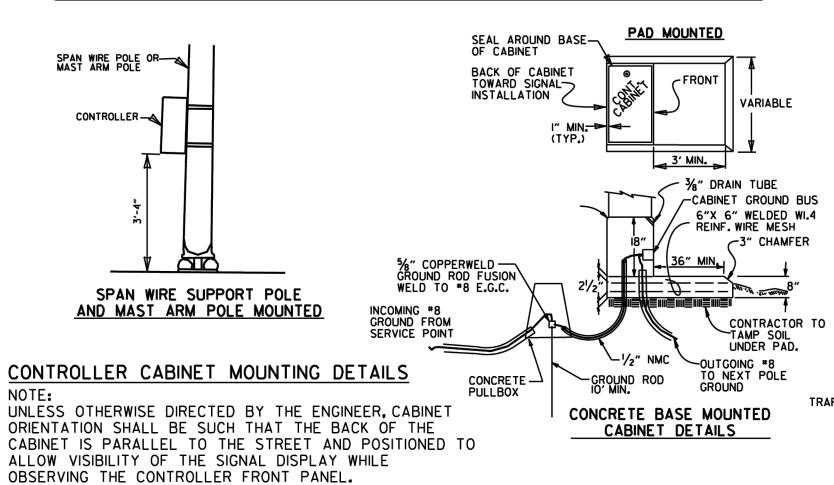
THE GROUND ROD SHALL BE FUSION WELDED TO A IC/*8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP. THE GROUND ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

ON THE PLANS.

TYPICAL FOUNDATION DETAILS

POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM	FOUNDATION	DEPTH	STEEL		
LENGTH	DIAMETER	"L"*	VERTICAL	HORIZONTAL	0.C.
PED	30"	7′-0″	12-#7 (6'-6")	10-#4	8.44"
2' TO 12'	30"	10'-6"	12-#7 (10'-0")	15-#4	8.42"
OVER 12' TO 20'	30"	II'-6"	12-#7 (11'-0")	16-#4	8.66"
OVER 20' TO 35'	36"	12'-6"	13-#8 (12'-0")	17-#4	8.88"
OVER 35' TO 50'	36"	13′-6″	13-#8 (13'-0")	19-#4	8.56"
OVER 50' TO 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8.74"
TWINS TO 20'	30"	16'-0"	12-#6 (15′-6″)	22-#4	8.76"
TWINS OVER 20' TO 44'	36"	16'-0"	13-#8 (15'-6")	22-#4	8.76"
TWINS OVER 44' TO 50'	42"	16'-0"	18-#8 (15'-6")	22-#4	8.76"
TWINS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"



8. GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND 1/2" NMC SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 701FOR THE CONTROLLER. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID SEPERATELY.

9. POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT. PERIMETER OF ANCHOR BASE SHALL BE GROUTED WITH A 1/4" WEEP HOLE. ALL CONCRETE SHALL BE CLASS "S" OR GREATER.

IO. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER. II. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PEDESTRIAN PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM 707 PEDESTRIAN SIGNAL HEAD.

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PEDESTRIAN SIGNAL HEADS

DATE

SIGNAL OPERATION NOTES:

* WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE

ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND

ABOVE THE ROADWAY. WHEN THE REQUIRED LENGTH OF FOUNDATION

ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH "L" WILL

THE ENGINEER. LONGITUDINAL REINFORCING, AS SHOWN IN THE TABLE.

SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND

#4 TIES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC

BE REQUIRED. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE

GROUND IS 5'-6" OR LESS, INCREASE DEPTH "L" BY I'-0". FOR LENGTHS

SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.

GREATER THAN 5'-6". DEPTH "L" SHALL BE ADJUSTED AS DIRECTED BY

MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER. SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

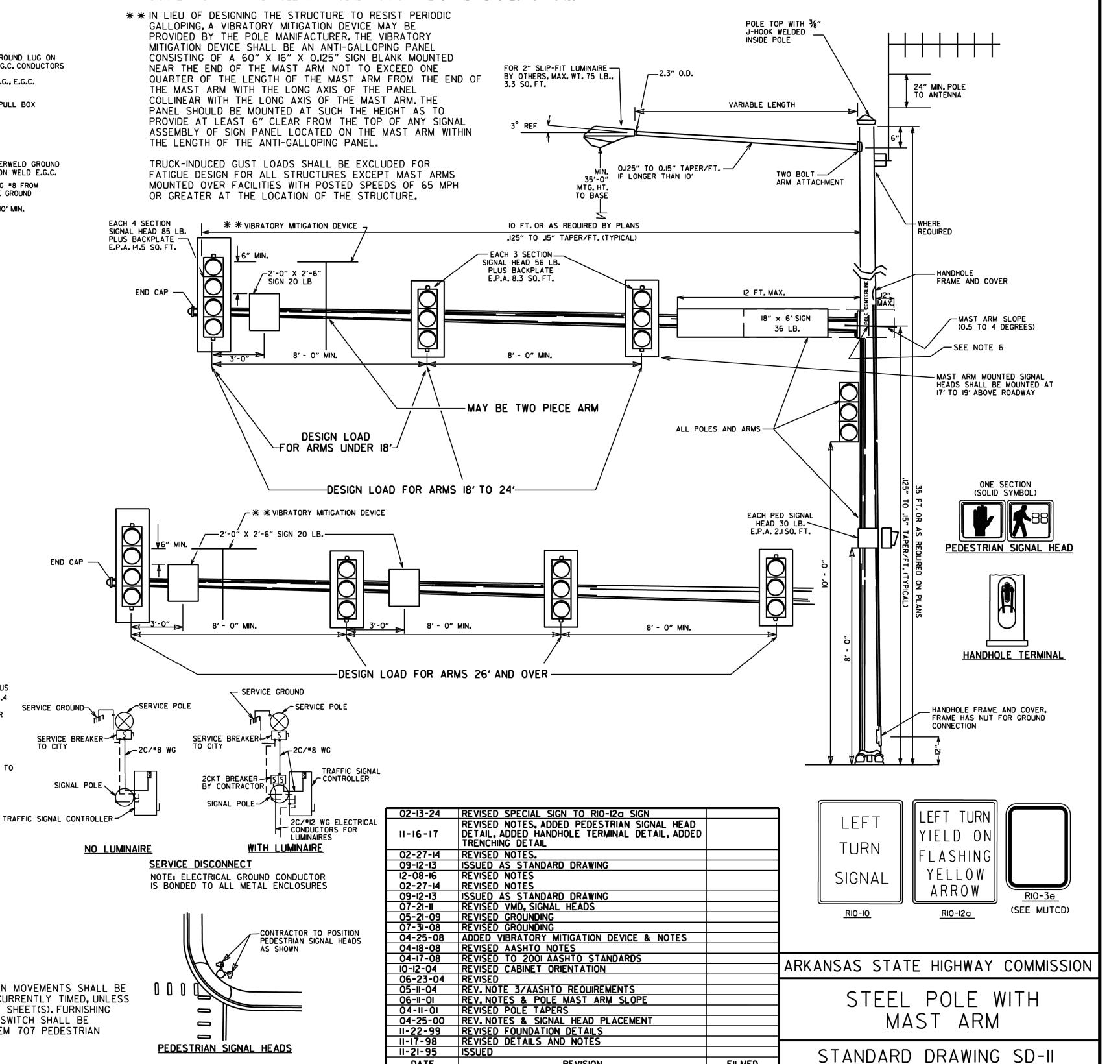
THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD. AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATIONS IN FLASH

STEEL POLE WITH

MAST ARM

STANDARD DRAWING SD-II

SPECIAL NOTE: 90 MPH WIND ZONE DESIGN. SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.



REVISION

FILMED