

38TH AVENUE PATHWAY

CITY OF HATTIESBURG

HATTIESBURG, MISSISSIPPI

FORREST COUNTY

MAYOR

TOBY BARKER

CHIEF ADMINISTRATIVE OFFICER

ANN JONES

ENGINEERING DIRECTOR

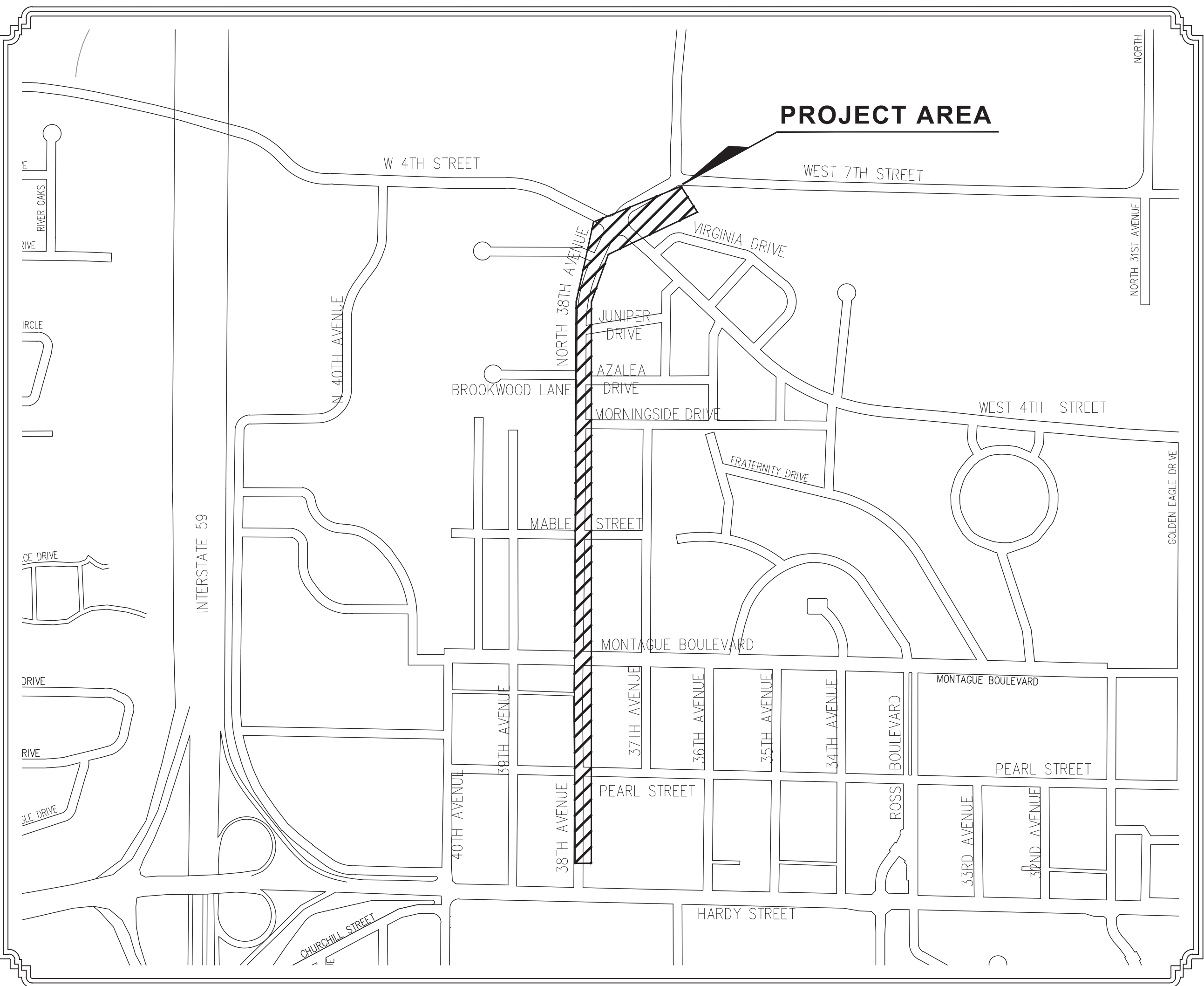
LAMAR RUTLAND, P.E.

COUNCIL MEMBERS

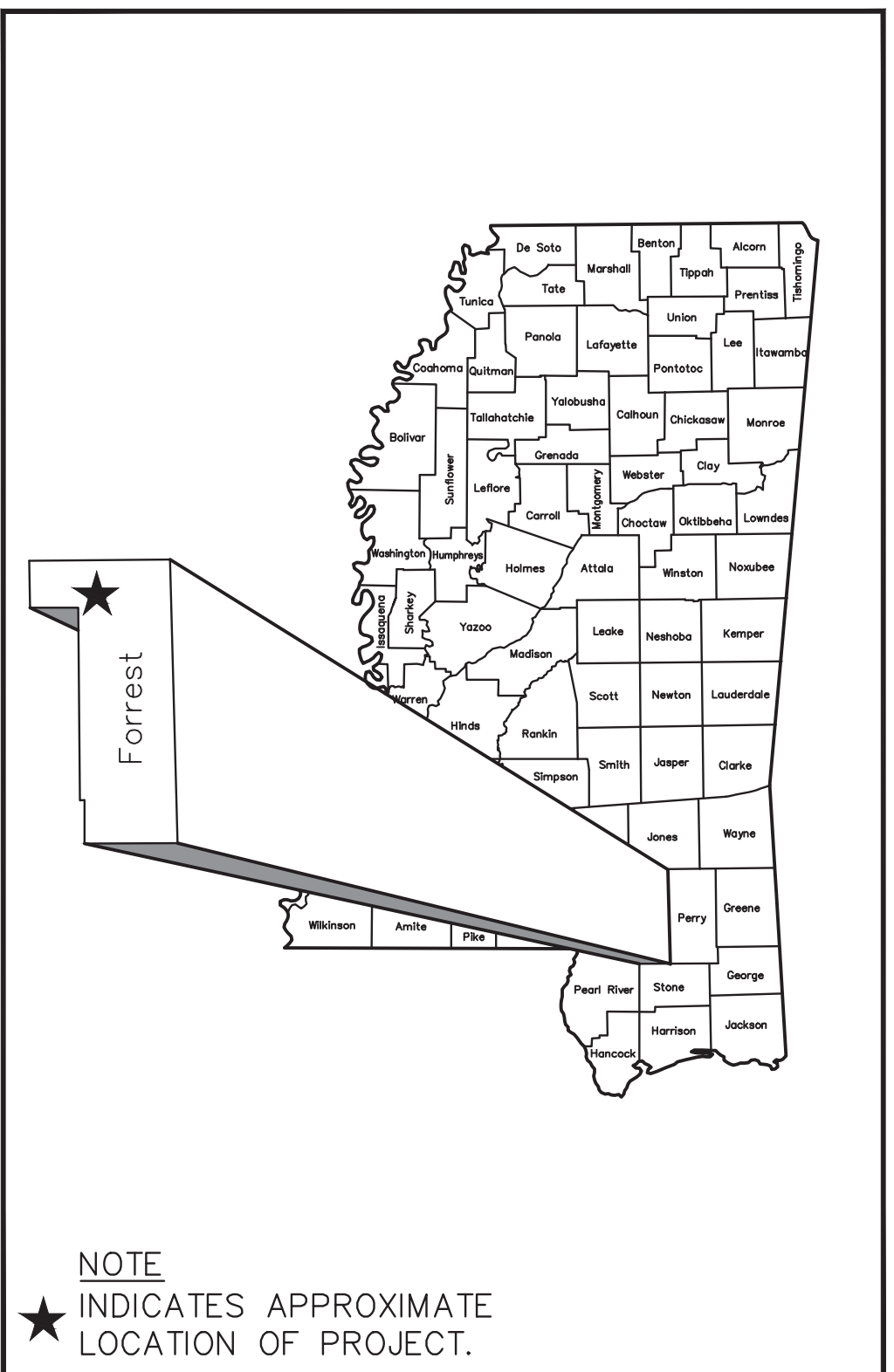
JEFFREY GEORGE	WARD 1
DEBORAH D. DELGADO	WARD 2
CARTER CARROLL	WARD 3
MARY DRYDEN	WARD 4
NICHOLAS BROWN	WARD 5

UTILITIES

CITY OF HATTIESBURG
MISSISSIPPI POWER
AT&T
SPIRE GAS
COMCAST



VICINITY MAP
PROJECT LOCATION



PREPARED BY :
NEEL-SCHAFFER
Solutions you can build upon



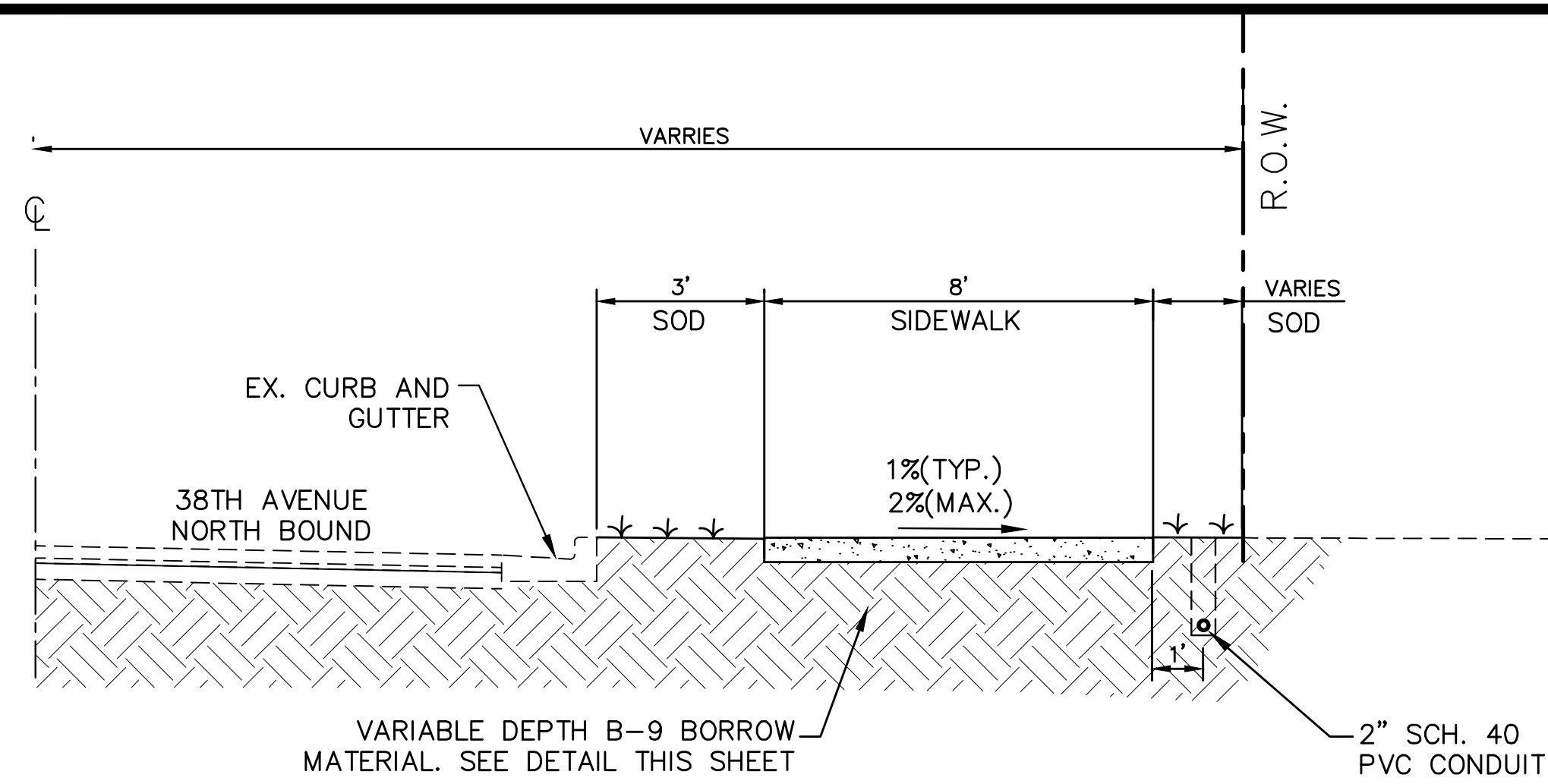
GEOFFREY P. CROSBY, P.E.
MISSISSIPPI LICENSE NO. PE: 19984

GENERAL NOTES

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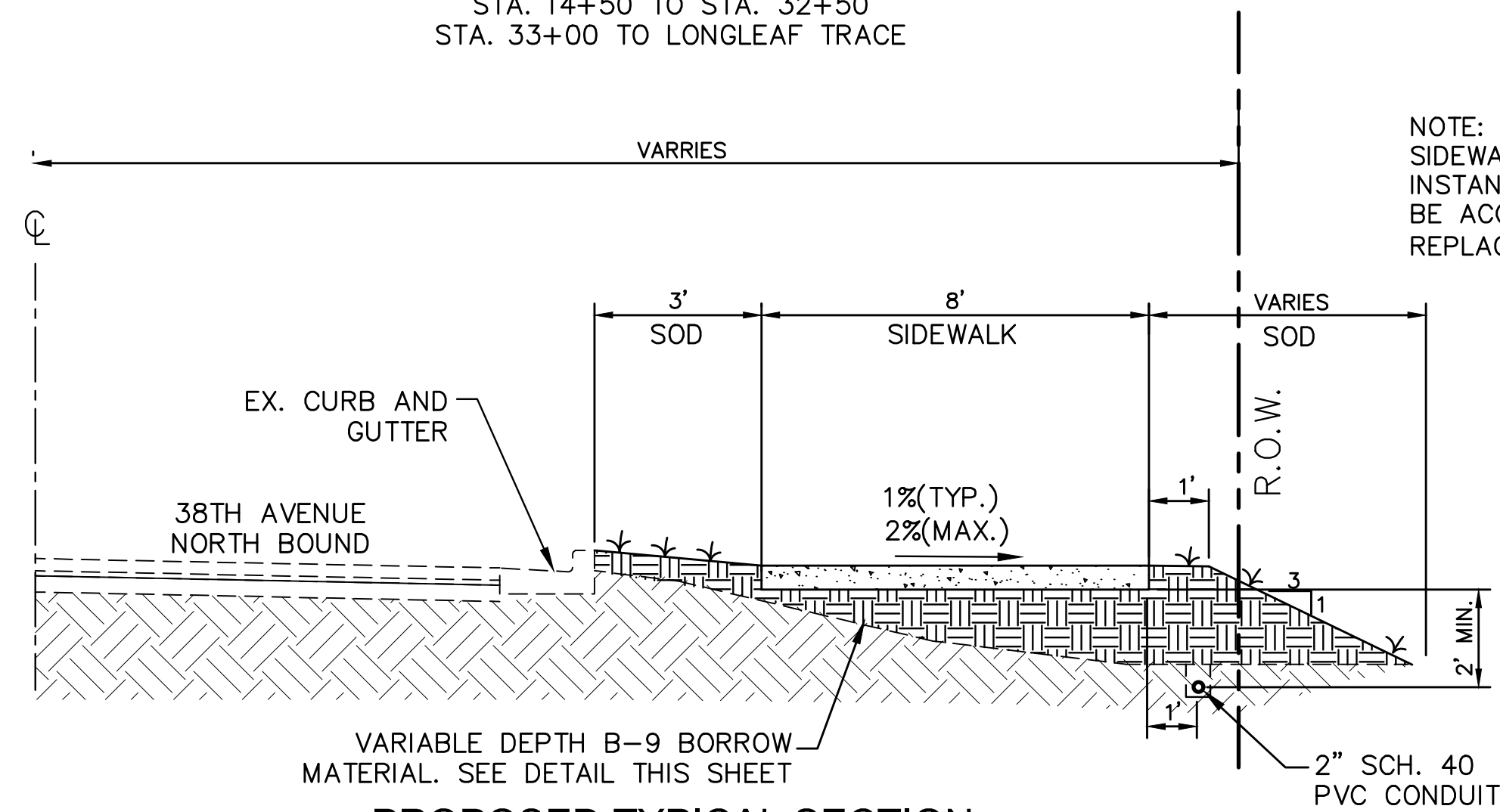
<u>DESCRIPTION OF SHEET</u>	<u>WKG. NO.</u>	<u>SHT. NO.</u>
<u>TITLE SHEET (1)</u>		1
<u>DETAILED INDEX & GENERAL NOTES (1)</u>		
INDEX & GENERAL NOTES	GN-1	2
<u>TYPICAL SECTION SHEETS (1)</u>		
TYPICAL SECTIONS	TS-1	3
<u>QUANTITY SHEETS (1)</u>		
SUMMARY OF QUANTITIES	SQ-1	4
<u>LAYOUT SHEETS (1)</u>		
OVERALL SITE PLAN	OVERALL	5
<u>DEMOLITION SHEETS (7)</u>		
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 0+00 TO STA. 6+00	DEMO-1	6
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 6+00 TO STA. 12+00	DEMO-2	7
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 12+00 TO STA. 18+00	DEMO-3	8
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 18+00 TO STA. 24+00	DEMO-4	9
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 24+00 TO STA. 30+00	DEMO-5	10
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 30+00 TO STA. 36+00	DEMO-6	11
EXISTING CONDITIONS AND DEMOLITION PLAN 38TH AVENUE - STA. 36+00 TO LONGLEAF TRACE	DEMO-7	12
<u>PLAN SHEETS (13)</u>		
38TH AVENUE - STA. 0+00 TO STA. 6+00	PP-1	13
38TH AVENUE - STA. 6+00 TO STA. 12+00	PP-2	14
38TH AVENUE - STA. 12+00 TO STA. 18+00	PP-3	15
38TH AVENUE - STA. 18+00 TO STA. 24+00	PP-4	16
38TH AVENUE - STA. 24+00 TO STA. 30+00	PP-5	17
38TH AVENUE - STA. 30+00 TO STA. 36+00	PP-6	18
38TH AVENUE - STA. 36+00 TO LONGLEAF TRACE	PP-7	19
38TH AVENUE INTERSECTION DETAILS #1	ID-1	20
38TH AVENUE INTERSECTION DETAILS #2	ID-2	21
38TH AVENUE CURB RAMP DETAILS	RAMP-2	22
38TH AVENUE DRAINAGE DETAILS	DRAIN-1	23
<u>SPECIAL DESIGN SHEETS (18)</u>		
SITE DETAILS	DET-1	24
SITE DETAILS	DET-2	25
TRAFFIC SIGNAL GENERAL NOTES	TSD-1	26
TRAFFIC SIGNAL STANDARDS	TSD-2	27
TRAFFIC SIGNAL STANDARDS	TSD-3	28
TRAFFIC SIGNAL STANDARDS	TSD-4	29
TRAFFIC SIGNAL STANDARDS	TSD-5	30
TRAFFIC SIGNAL STANDARDS	TSD-6	31
TRAFFIC SIGNAL STANDARDS	TSD-7	32
TRAFFIC CONTROL PLAN	TCP-1	33
TRAFFIC CONTROL DETAILS	TCP-2	34
TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS	ECD-1	35
DETAILS OF SEDIMENT BARRIER APPLICATIONS	ECD-2	36
DETAILS OF SILT FENCE INSTALLATION	ECD-3	37
CURB INLET DETAILS	SS-2	38
PIPE COLLAR DETAILS	PC-1	39
JUNCTION BOX DETAILS	JB-1	40
DRIVEWAYS, CURB & GUTTER & SIDEWALK	SD-1	41
<u>TOTAL NUMBER OF SHEETS (41)</u>		

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					CHKD: DATE:					
					QA/QC: DATE:					



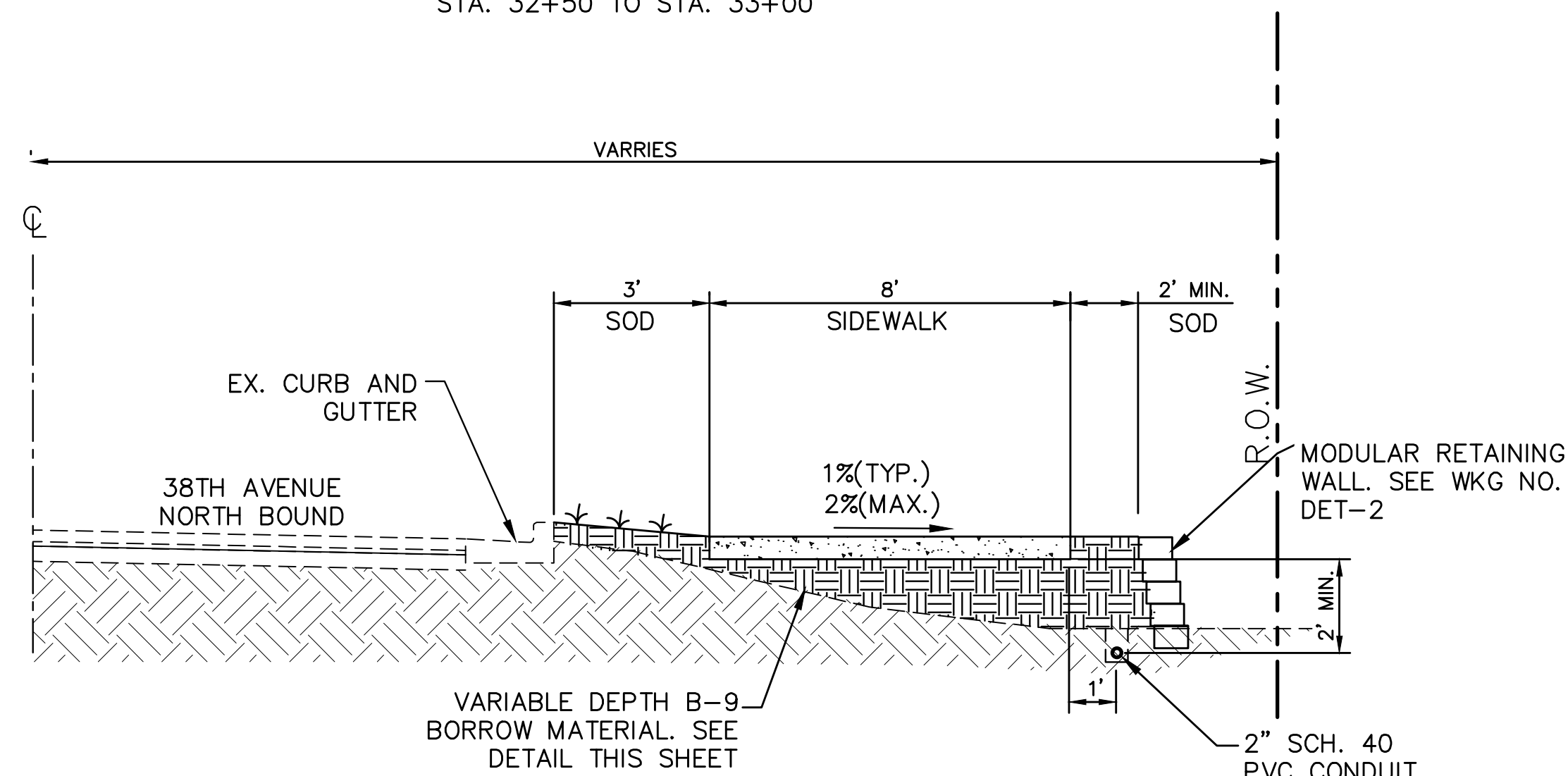
PROPOSED TYPICAL SECTION

NOT TO SCALE
STA. 11+31 TO STA. 11+34
STA. 12+59 TO STA. 13+50
STA. 14+50 TO STA. 32+50
STA. 33+00 TO LONGLEAF TRACE



PROPOSED TYPICAL SECTION

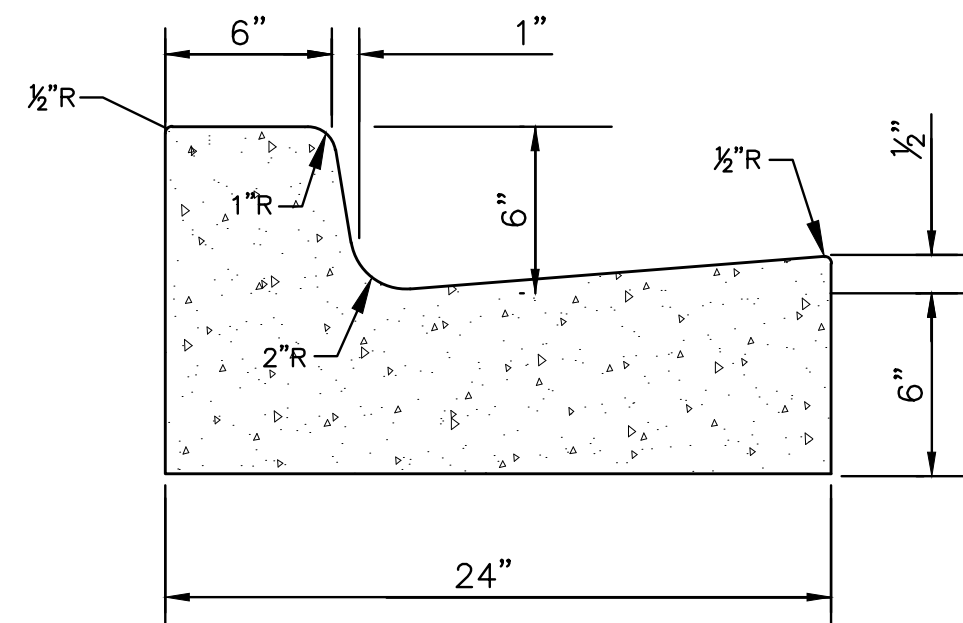
NOT TO SCALE
STA. 13+50 TO STA. 14+50
STA. 32+50 TO STA. 33+00



PROPOSED TYPICAL SECTION

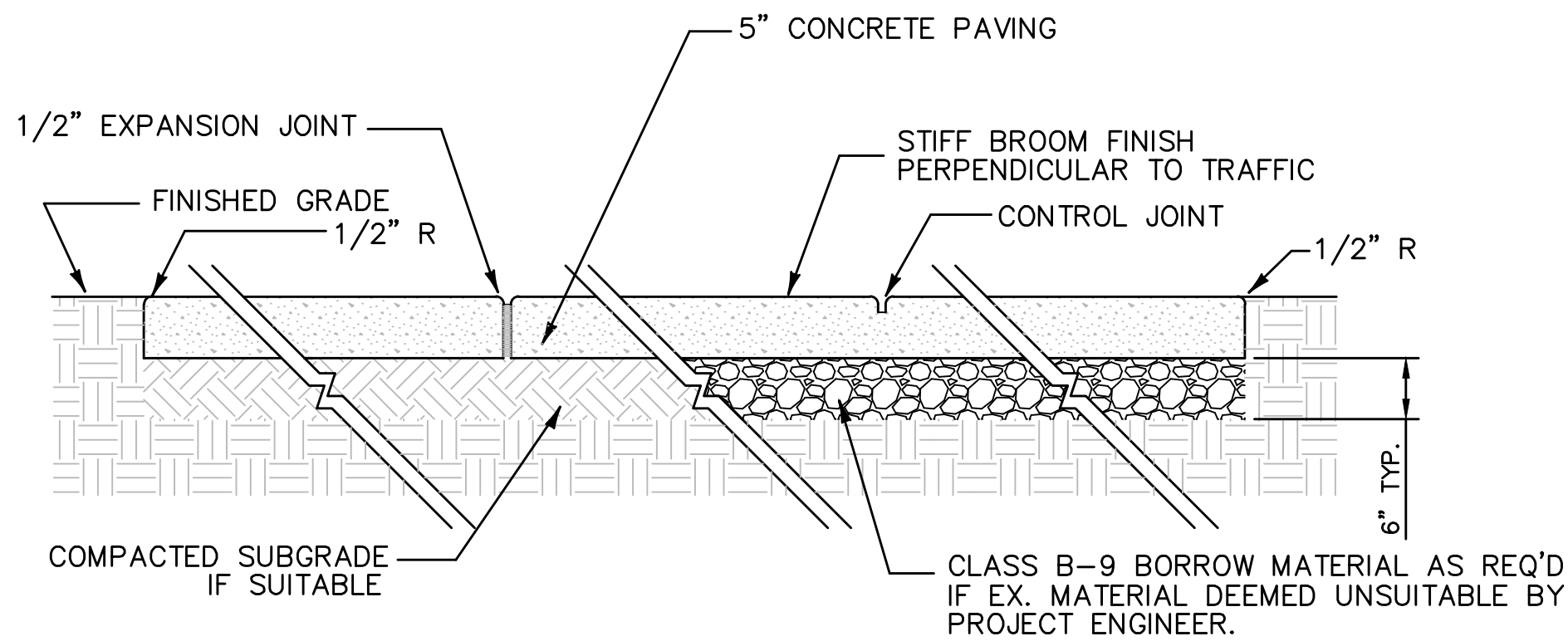
NOT TO SCALE
STA. 11+34 TO STA. 12+59

CURB AND GUTTER JOINT SPACING	
CONTROL JOINT	EXPANSION JOINT
10	40



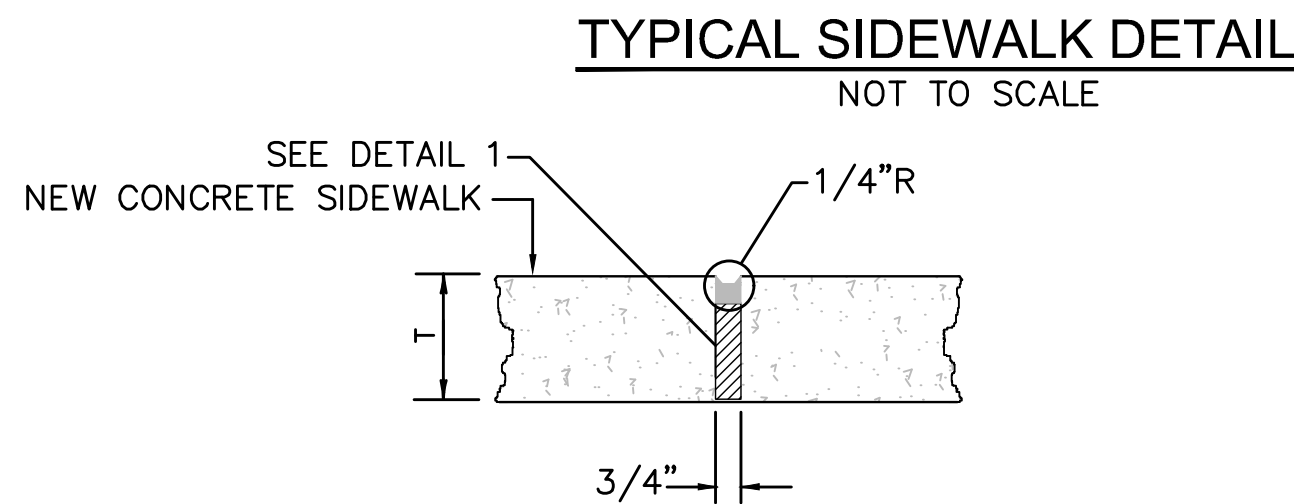
TYPE 1 MODIFIED CURB AND GUTTER

NOT TO SCALE



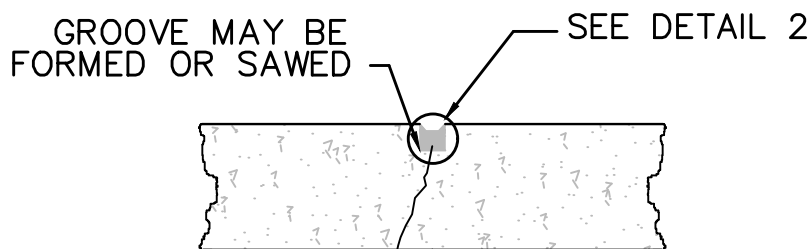
- NOTES:
- 1/2" EXPANSION JOINT CONFORMING TO ASTM D1751. TOP OF JOINT SHALL BE SEALED w/ 1/2" TAR MODIFIED URETHANE SEALANT. PLACE EXPANSION JOINT AS SHOWN IN THE TABLE ABOVE.
 - HAND TOOLED CONTROL JOINTS W/ 1/2" RADIUS AS SHOWN ABOVE
 - ALL SUBGRADE SOILS FOR SIDEWALK SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

SIDEWALK WIDTH	JOINT SPACING	
	CONTROL JOINT	EXPANSION JOINT
8	8	40



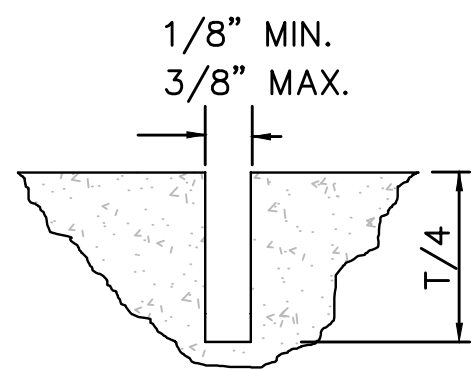
TYPE "B" - EXPANSION JOINT

NOT TO SCALE



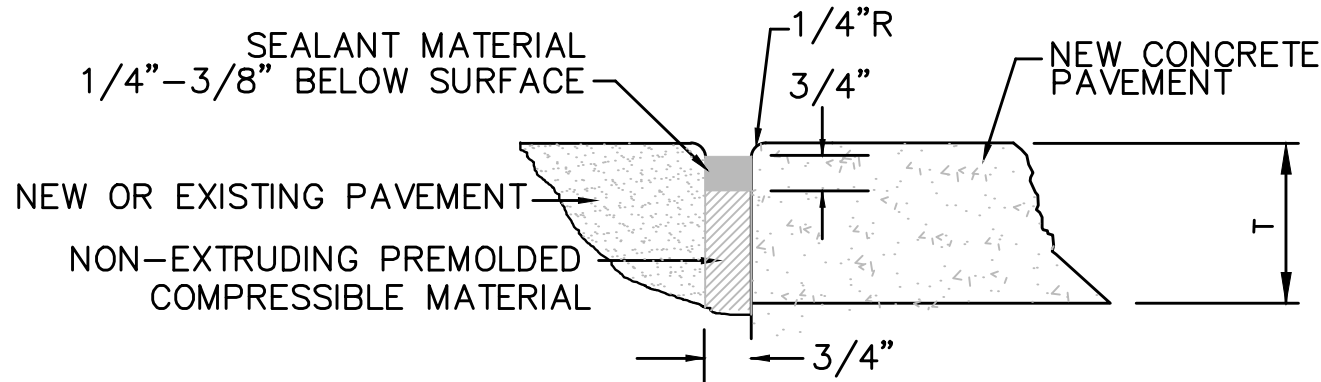
TYPE "A" - CONTROL JOINT

NOT TO SCALE



DETAIL 2 - CONTROL JOINT

NOT TO SCALE



DETAIL 1 - EXPANSION JOINTS

NOT TO SCALE

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REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33	
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				DRWN: WTA DATE: 01/2019	
				CHKD: DATE:	
				QA/QC: DATE:	

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38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TYPICAL SECTIONS

WORKING NUMBER:
TS-1

DRAWING NUMBER:
3

SUMMARY OF QUANTITIES

FOOT NOTE	PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	EST. QTY	FINAL QTY
1	202-A	REMOVAL OF OBSTRUCTIONS	LUMP SUM	1	
2	202-B	REMOVAL OF CONCRETE SIDEWALK	SQ. YD.	325	
2	202-B	REMOVAL OF PAVEMENT, ALL TYPES AND DEPTHS	SQ. YD.	850	
2	202-B	REMOVAL OF CURB & GUTTER, ALL TYPES	LIN. FT.	400	
	203-A	UNCLASSIFIED EXCAVATION, FM, AH	CU. YD.	200	
	203-G	EXCESS EXCAVATION, FM, AH	CU. YD.	100	
	203-EX	BORROW EXCAVATION, AH, FME, CLASS B9	CU. YD.	600	
3	211-A	TOPSOIL FROM RIGHT OF WAY	SQ. YD.	3500	
4	211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	CU. YD.	50	
5	216-B	SOLID SODDING, CENTIPEDE	SQ. YD.	2400	
	219-A	WATERING	KGAL	380	
	220-A	INSECT PEST CONTROL	ACRE	1	
	234-A	TEMPORARY SILT FENCE	LIN. FT.	1000	
	237-A	WATTLES, 20"	LIN. FT.	200	
	246-A	SANDBAGS	EACH	100	
	601-B	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	CU. YD.	15	
	602-A	REINFORCING STEEL	LBS.	1500	
6	603-CE	15" CORRUGATED POLYETHYLENE PIPE	LIN. FT.	100	
	603-CA	15" REINFORCED CONCRETE PIPE CLASS 3	LIN. FT.	16	
	603-CB	15" FLARED END SECTION	EACH	1	
7	907-603-PP	18" CORRUGATED POLYETHYLENE INLINE INLET, PER PLANS	EACH	7	
	608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT	SQ. YD.	3000	
8 , 10	907-616-A	COLORLED CONCRETE WITH SCORING	SQ. YD.	60	
9	907-616-B	STAMPED AND COLORED CONCRETE (BRICK PATTERN)	SQ. FT.	2050	
8	907-616-C	STAMPED CONCRETE, BRICK PATTERN WITH TRUNCATED DOMES	EACH	27	
	609-B	CONCRETE CURB HEADER	LIN. FT.	200	
	609-D	TYPE 1 MODIFIED CURB AND GUTTER	LIN. FT.	130	
	907-609-PP	6" CONCRETE BAND, PER PLANS	LIN. FT.	515	
	613-D	MODIFY EXISTING INLET, PER PLANS	EACH	3	
11	613-D	ADJUSTMENT OF WATER METER	EACH	13	
	614-B	CONCRETE DRIVEWAY, WITH REINFORCEMENT, 6" THICKNESS	SY	750	
	815-B	GROUTED RIPRAP, #100	SQ. YD.	50	
	815-E	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE 5, NON-WOVEN	SQ. YD.	50	
	618-A	MAINTENANCE OF TRAFFIC	LUMP SUM	1	
	620-A	MOBILIZATION	LUMP SUM	1	
	626-H	THERMOPLASTIC LEGEND, WHITE (6" EQUIV.)	LIN. FT.	3050	
	632-C	TRAFFIC SIGNAL CABINET MODIFICATIONS	EACH	1	
	634-A	TYPE VI PEDESTRIAN SIGNAL POLE WITH FOUNDATION	EACH	1	
	635-A	TYPE 6 SIGNAL WITH PUSH BUTTON AND SIGN	EACH	1	
	636-D	2-IMSA-20-1, AWG14, 5 CONDUCTOR	LIN. FT.	200	
12	637-D	2" SCHEDULE 40 CONDUIT WITH PULL STRING, JACK OR BORED	LIN. FT.	330	
12	637-C	2" SCHEDULE 40 CONDUIT WITH PULL STRING	LIN. FT.	3570	
	637-A	TRAFFIC SIGNAL PULL BOX TYPE 1	EACH	1	
	637-A	TRAFFIC SIGNAL PULL BOX TYPE 3	EACH	1	
	637-D	JACK OR BORE 2" ROLL PIPE	LIN. FT.	365	
	682-D	ELECTRICAL PULL BOX	EACH	23	
13	686-A	RELOCATION OF UPLIGHT AND CONDUCTORS	EACH	3	
14	809-A	RETAINING WALL	SQ. FT.	380	
15	907-613-PP	RELOCATION OF SEWER CLEANOUT, PER PLANS	EACH	1	

FOOTNOTES

1	TO INCLUDE BUT NOT LIMITED TO: CONCRETE DEBRIS, LANDSCAPING BEDS AND SHRUBS, DEBRIS, AND ITEMS IDENTIFIED IN THE PLANS THAT ARE IN CONFLICT WITH CONSTRUCTION THAT IS NOT COVERED UNDER A SEPARATE PAY ITEM.
2	INCLUDES THE COST OF FULL DEPTH SAW CUT.
3	STOCKPILED TOPSOIL FROM RIGHT OF WAY SHALL BE USED PRIOR TO USING CONTRACTOR FURNISHED TOPSOIL.
4	TO BE USED ONCE SPOCKPILLED TOPSOIL HAS BEEN DEPLETED.
5	INCLUDES THE COST OF GROUND PREPERATION.
6	ALL PIPE SHALL BE PERFORATED AND WRAPPED IN A SOCK. COST INCLUDES PIPE, PERFORATION, FILTER SOCK, STRUCTURE EXCAVATION, AND SELECT BEDDING AND BACKFILL.
7	INCLUDES ALL LABOR AND MATERIALS TO INSTALL 18" CATCH BASIN TO INCLUDE BUT NOT LIMITED TO ALL FITTINGS, GRATE, RISERS, STRUCTURE EXCAVATION, BEDDING AND BACKFILL.
8	COLOR SHALL BE RED PAVER AND SHALL MATCH THE BRICK PAVERS AT THE UNIVERSITY OF SOUTHERN MISSISSIPPI
9	COLOR CHARTS SHALL BE PROVIDED TO THE OWER TO SELECT COLOR.
10	INCLUDES THE COST OF REINFORCEMENT, COLORING, AND SCORING.
11	INCLUDES ALL LABOR, MATERIALS, AND COORDINATION TO ADJUST WATER METERS AS DIRECTED BY THE ENGINEER. PLASTIC METER BOXES ARE TO BE REPLACE BY CAST IRON BOXES TO BE PURCHASED FROM THE CITY OF HATTIESBURG.
12	TO BE INSTALLED FOR FUTURE LIGHING AND SHALL REQUIRE A PULL STRING (COST ABSORBED).
13	INCLUDES ALL WORK TO RELOCATE EXISTING BUILDING UPLIGHT AND CONDUCTORS OFF CITY RIGHT OF WAY. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER ON POWER SERVICE AND DISIRED NEW LIGHT LOCATION. LIGHTS ARE TO BE OPERATIONAL ONCE RELOCATION IS COMPLETE.
14	INCLUDES BUT NOT LIMITED TO STRUCTURE EXCAVATION, BACKFILL, BEDDING, WALL BLOCKS, CAP BLOCKS, DRAINAGE PIPE, FABRIC, AND ANY LABOR OR MATERIALS USED TO CONSTRUCT THE RETAINING WALL AS SHOWN IN THE PLANS.

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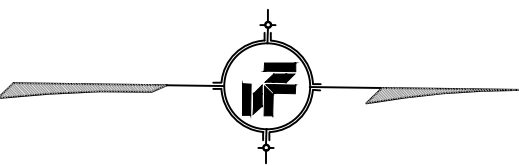
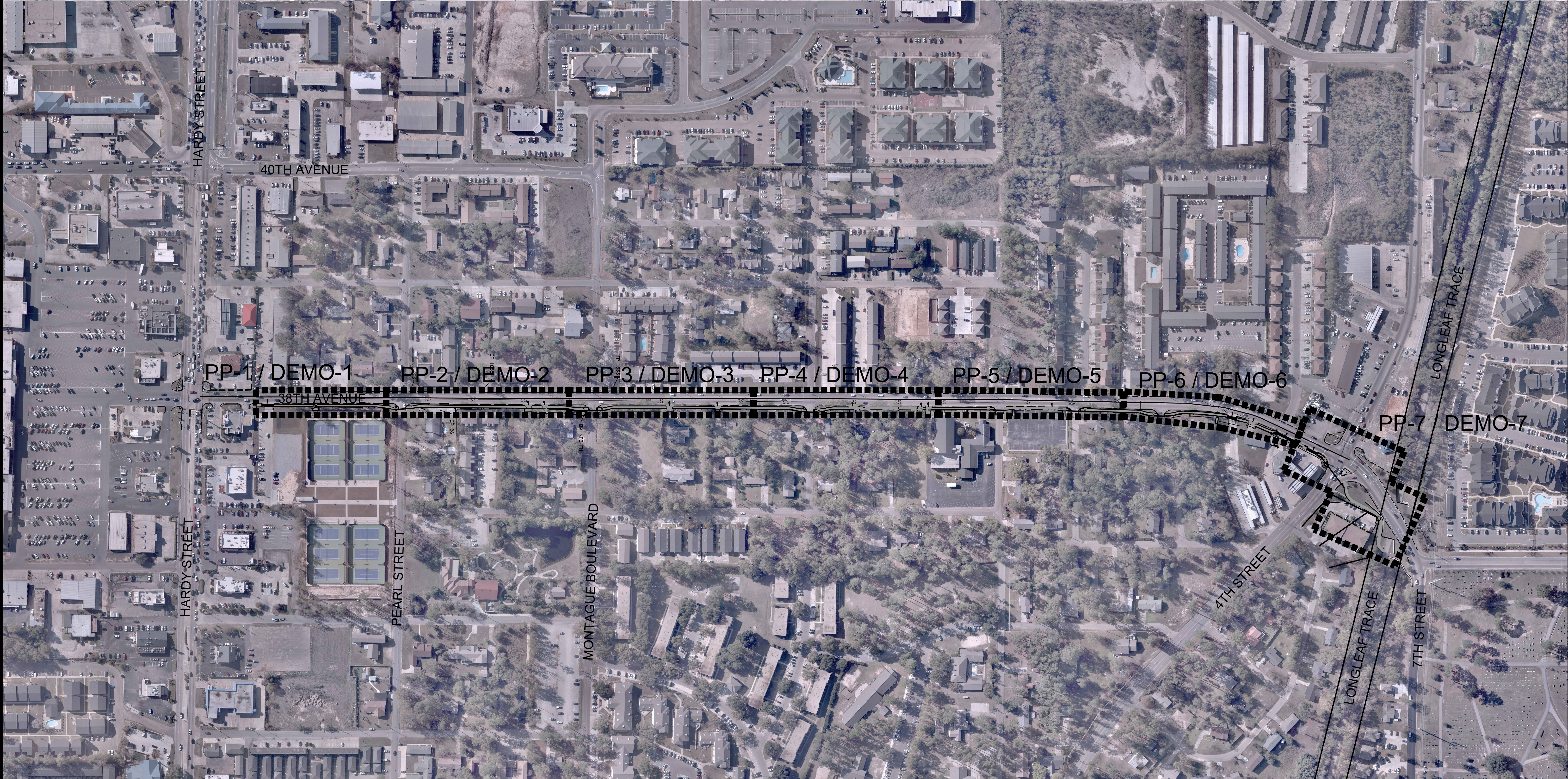
38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



SUMMARY OF QUANTITIES

WORKING NUMBER: SQ-1	DRAWING NUMBER: 4
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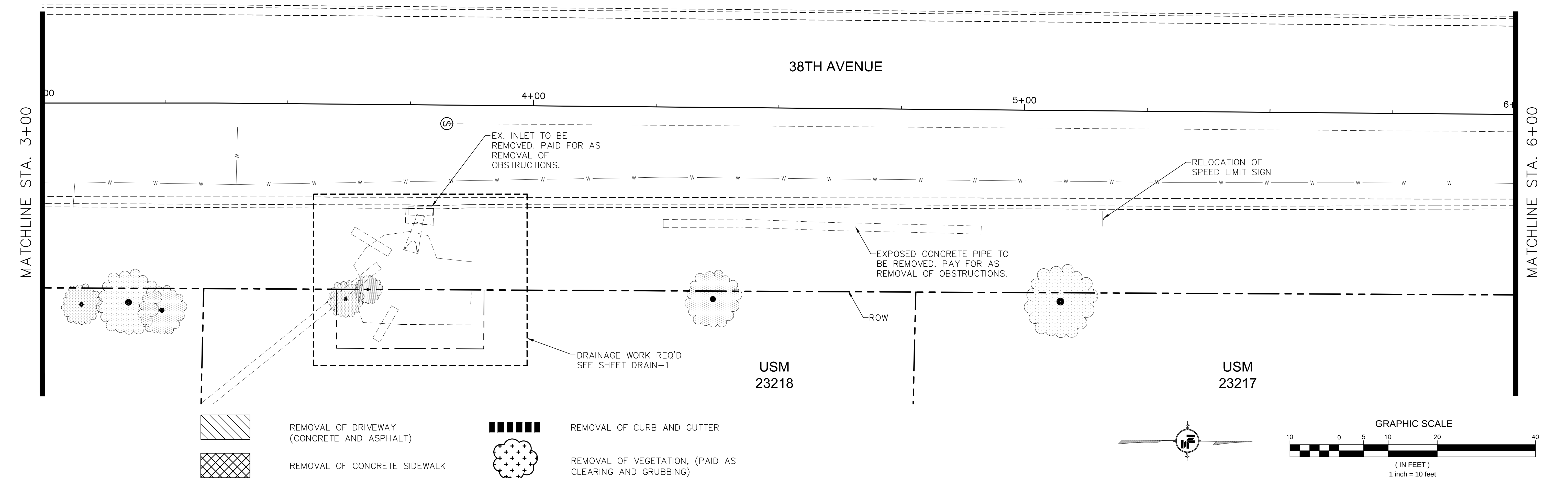
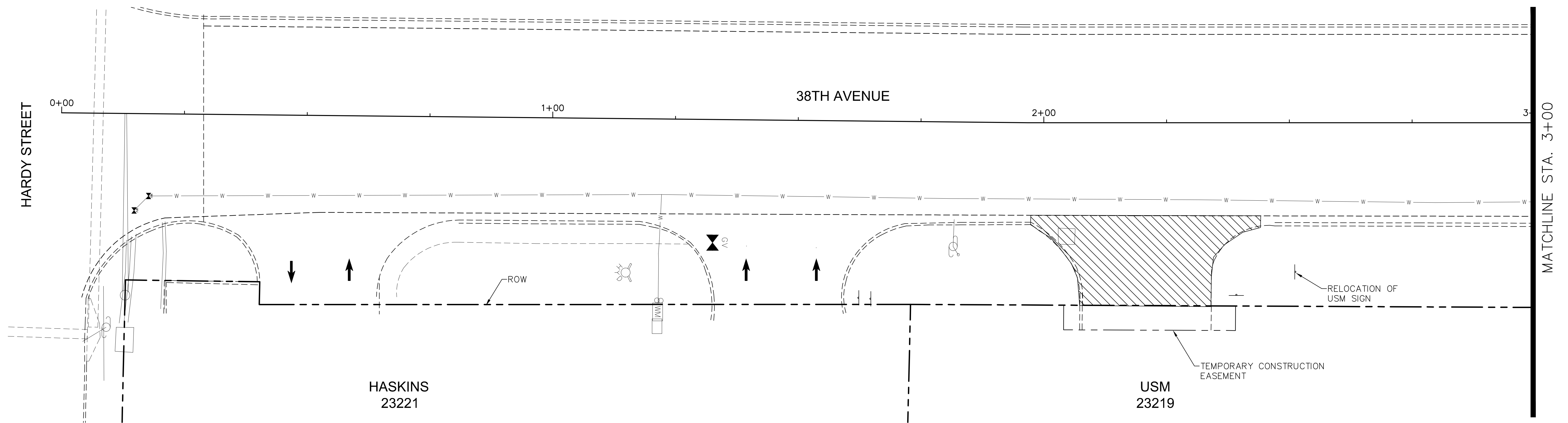
38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



OVERALL SITE PLAN

WORKING NUMBER: OVERALL	DRAWING NUMBER: 5
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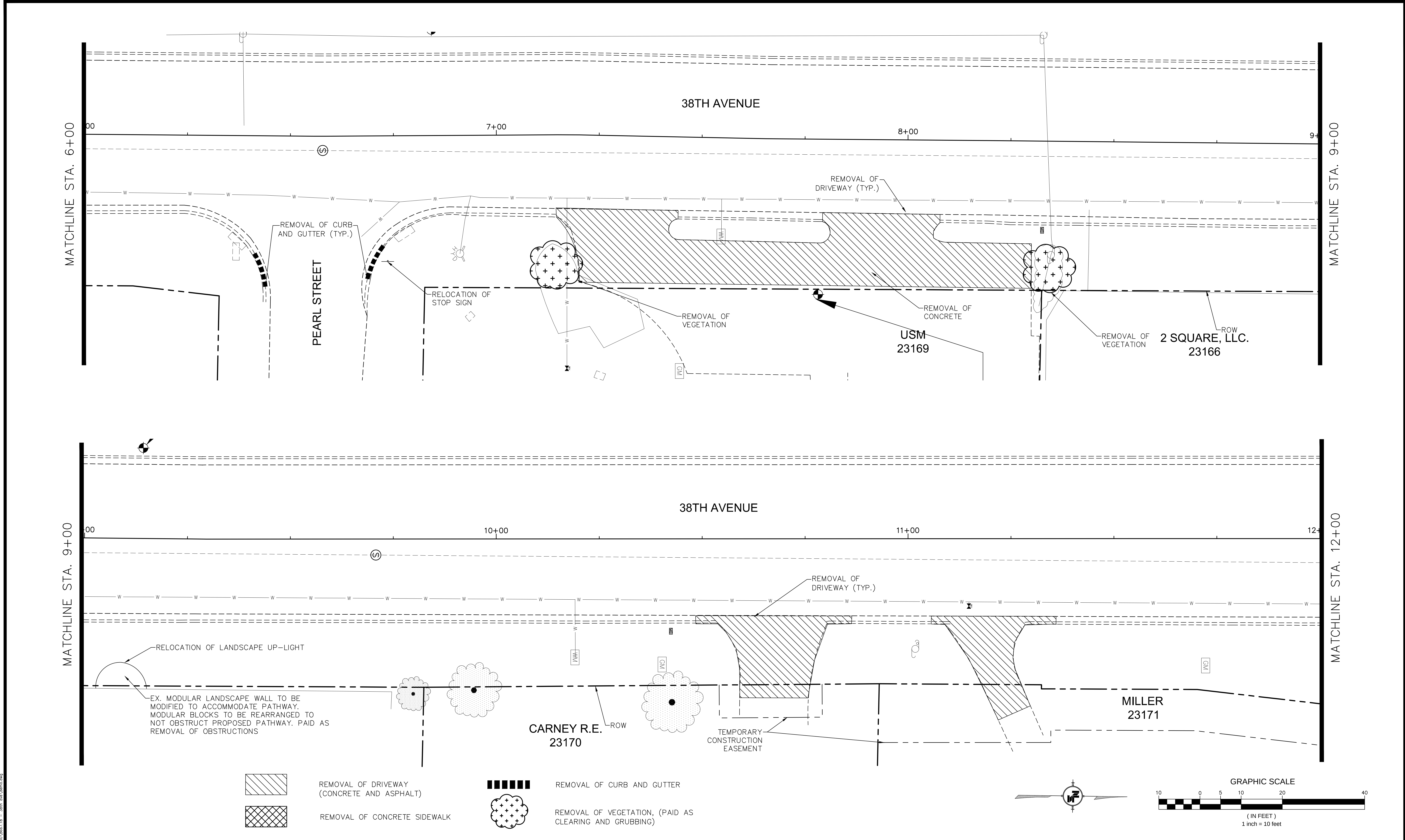
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				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

**NEEL-SCHAFFER**
Solutions you can build upon

EXISTING CONDITIONS & DEMOLITION PLAN 38TH AVENUE STA 0+00 TO STA 6+00	
WORKING NUMBER: DEMO-1	DRAWING NUMBER: 6

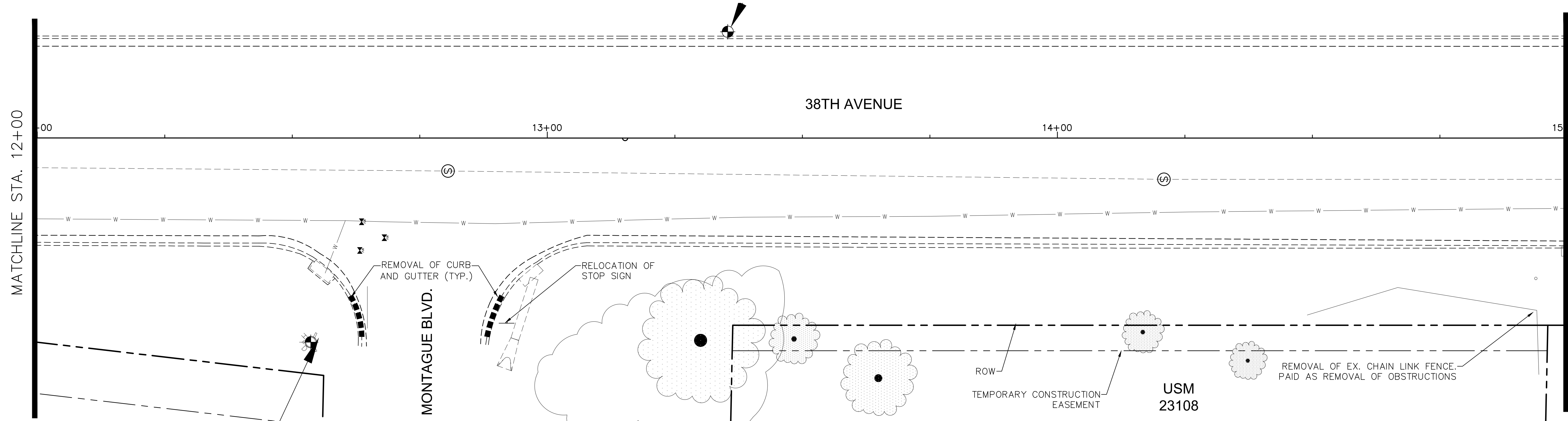


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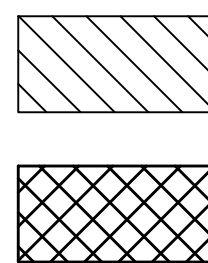
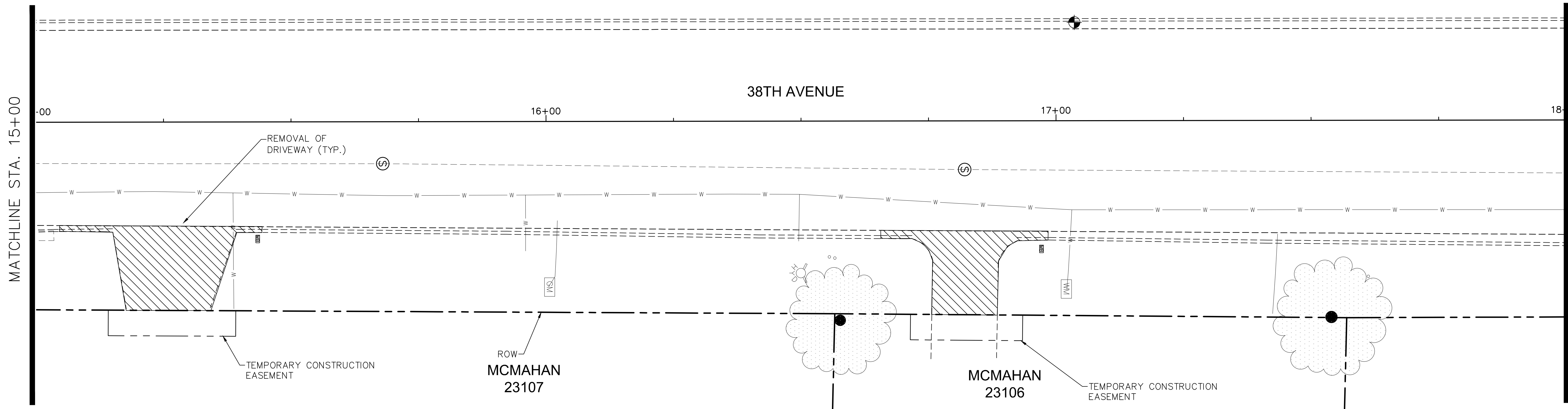
MATCHLINE STA. 12+00

MATCHLINE STA. 15+00



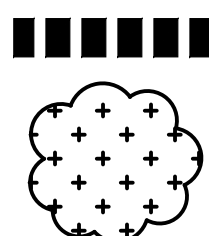
MATCHLINE STA. 15+00

MATCHLINE STA. 18+00



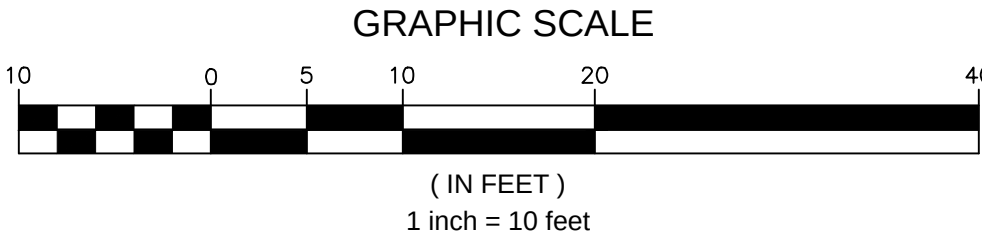
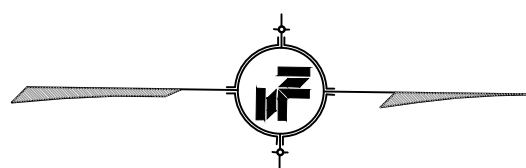
REMOVAL OF DRIVEWAY
(CONCRETE AND ASPHALT)

REMOVAL OF CONCRETE SIDEWALK



REMOVAL OF CURB AND GUTTER

REMOVAL OF VEGETATION, (PAID AS
CLEARING AND GRUBBING)



NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS				DRAWING INFORMATION	
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				SURVEYED BY: CLEARPOINT ENGINEERS	
				DSGN: MWE	DATE: 01/2019
				DRWN: WTA	DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

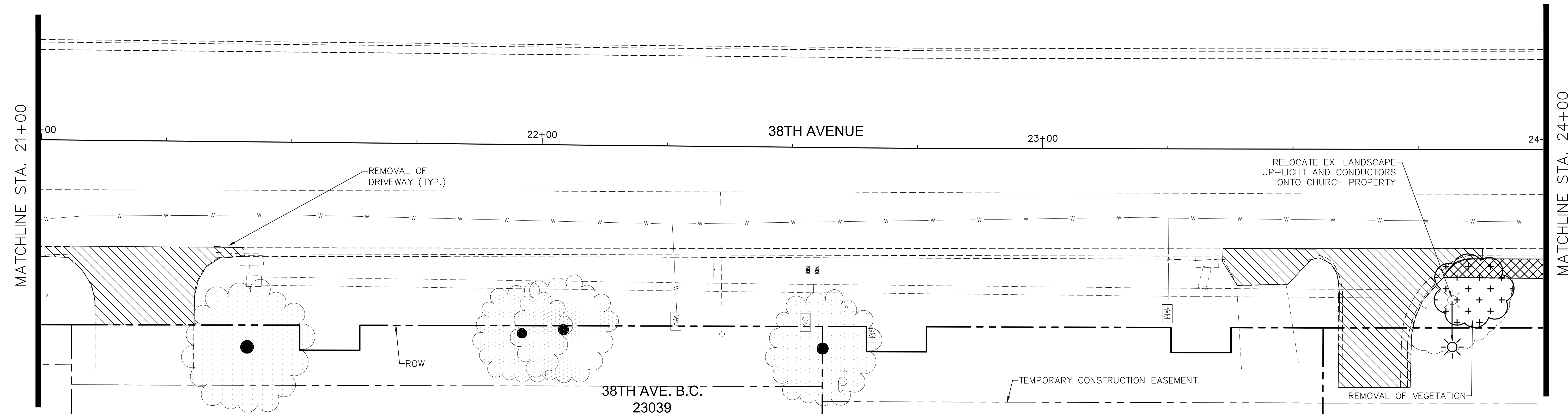
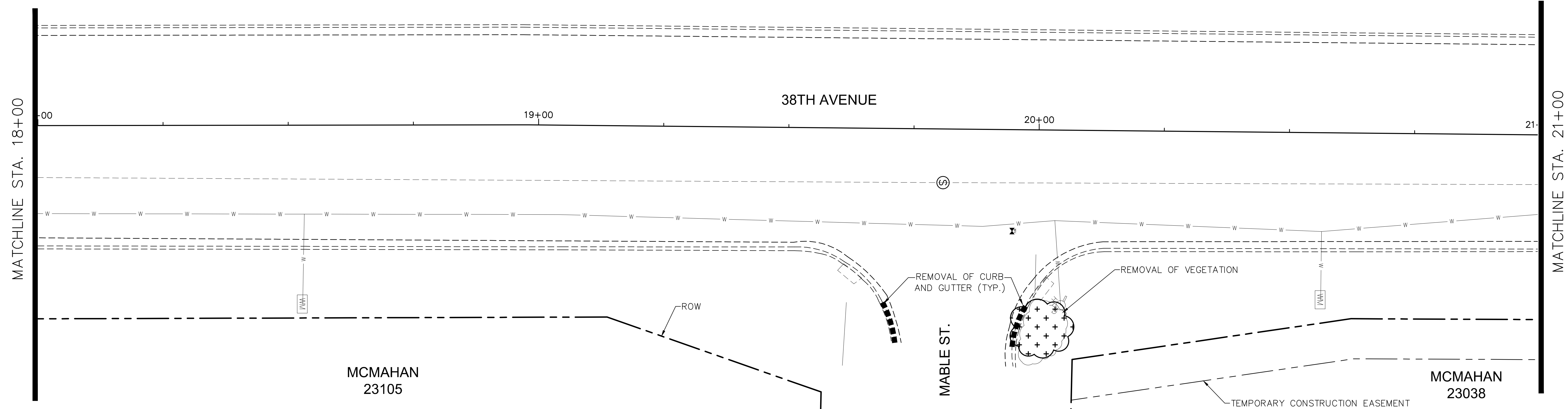
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



EXISTING CONDITIONS &
DEMOLITION PLAN 38TH AVENUE
STA 12+00 TO STA 18+00

WORKING NUMBER:
DEMO-3

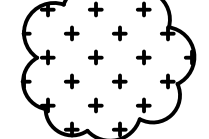
DRAWING NUMBER:
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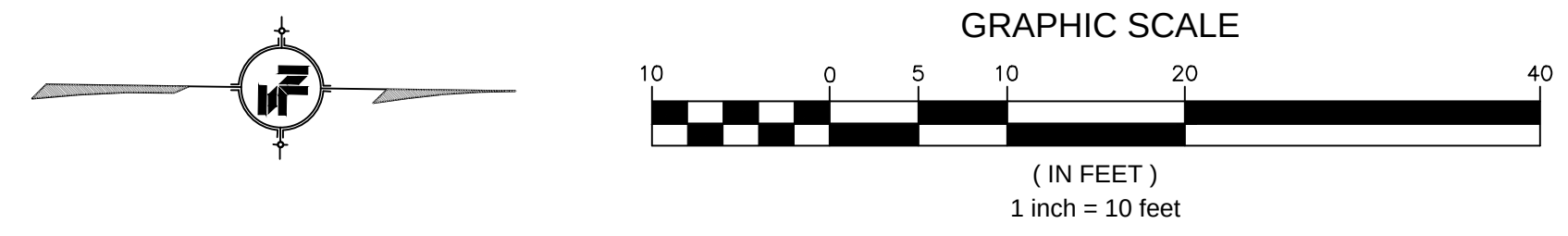
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REMOVAL OF DRIVEWAY
(CONCRETE AND ASPHALT)
- 

REMOVAL OF CONCRETE SIDEWALK
- 

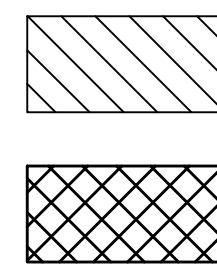
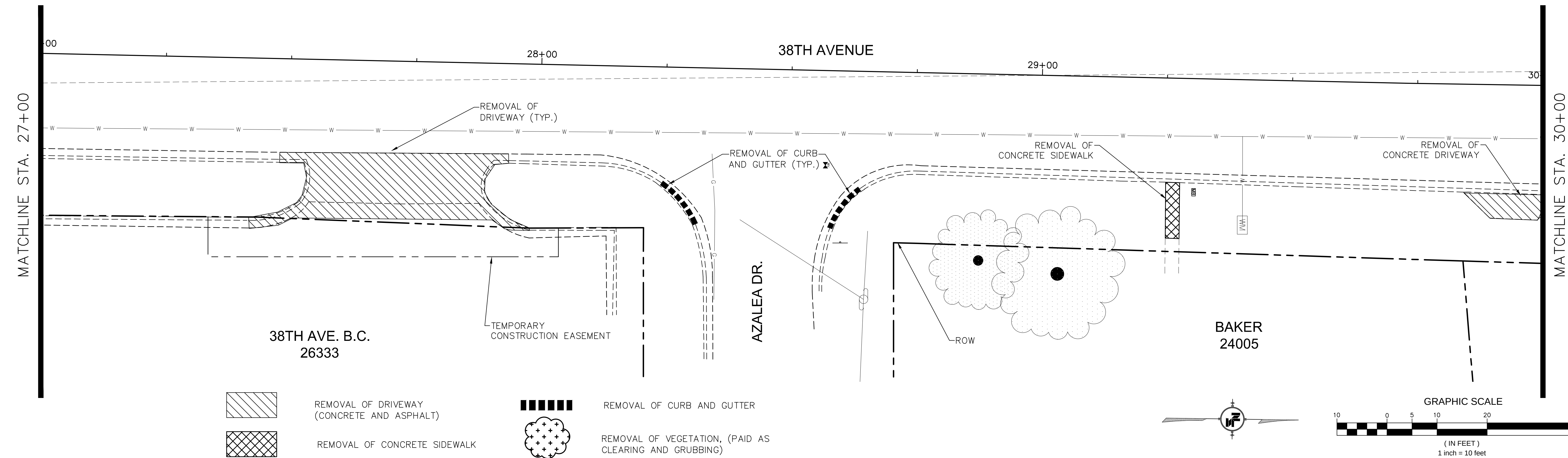
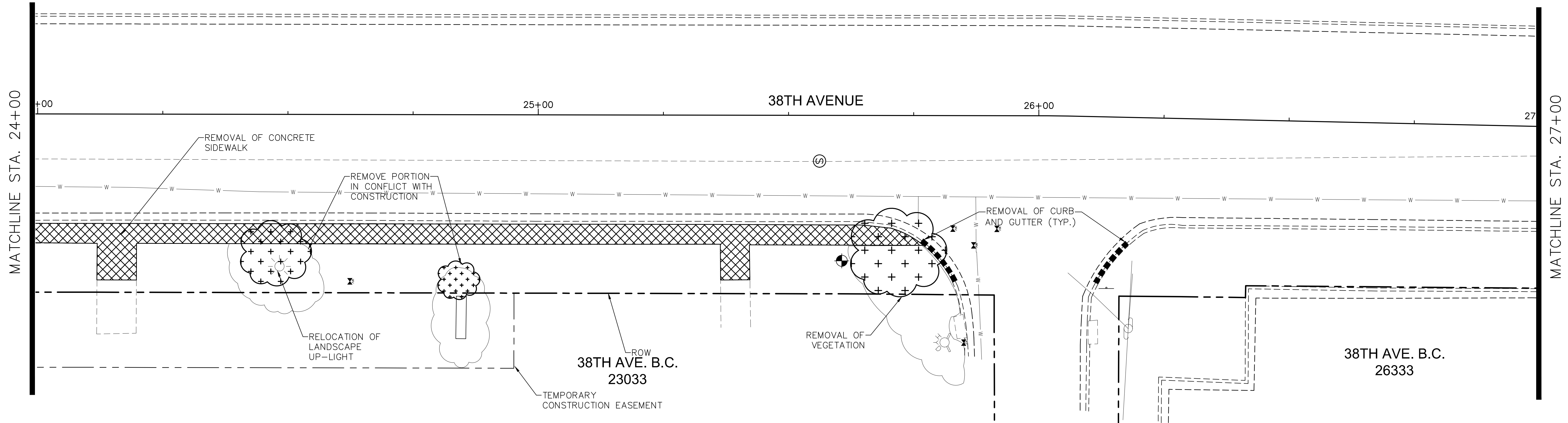
REMOVAL OF CURB AND GUTTER
- 

REMOVAL OF VEGETATION, (PAID AS
CLEARING AND GRUBBING)



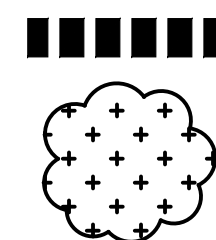
1/14/2019 10:15 AM C:\Users\jg\projects\8667\18 - 38th_ave.dwg

NOTICE TO DRAWING HOLDER NEEL-SCHAFER, INC., HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION		38TH AVENUE PATHWAY CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY		EXISTING CONDITIONS & DEMOLITION PLAN 38TH AVENUE STA 18+00 TO STA 24+00	
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					DSGN: MWE	DATE: 01/2019		WORKING NUMBER:	DRAWING NUMBER:
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					CHKD:	DATE:			
					QA/QC:	DATE:			



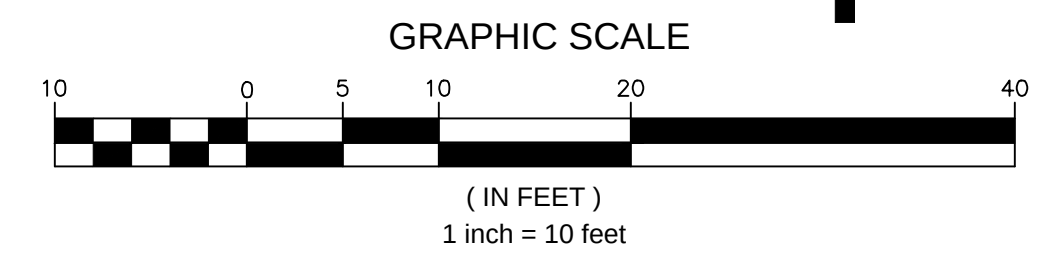
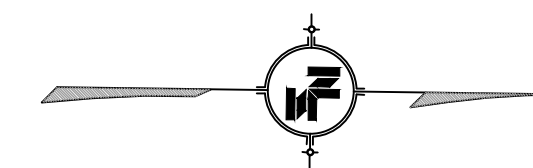
REMOVAL OF DRIVEWAY
(CONCRETE AND ASPHALT)

REMOVAL OF CONCRETE SIDEWALK



REMOVAL OF CURB AND GUTTER

REMOVAL OF VEGETATION, (PAID AS
CLEARING AND GRUBBING)



NOTICE TO DRAWING HOLDER

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REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33	
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				DSGN: MWE	DATE: 01/2019
				DRWN: WTA	DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

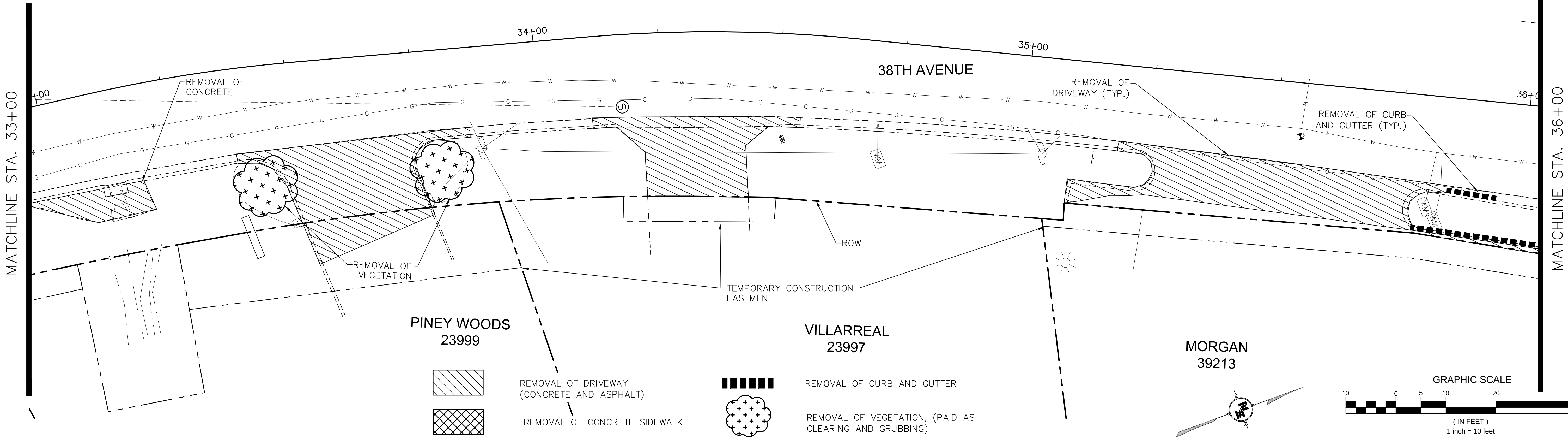
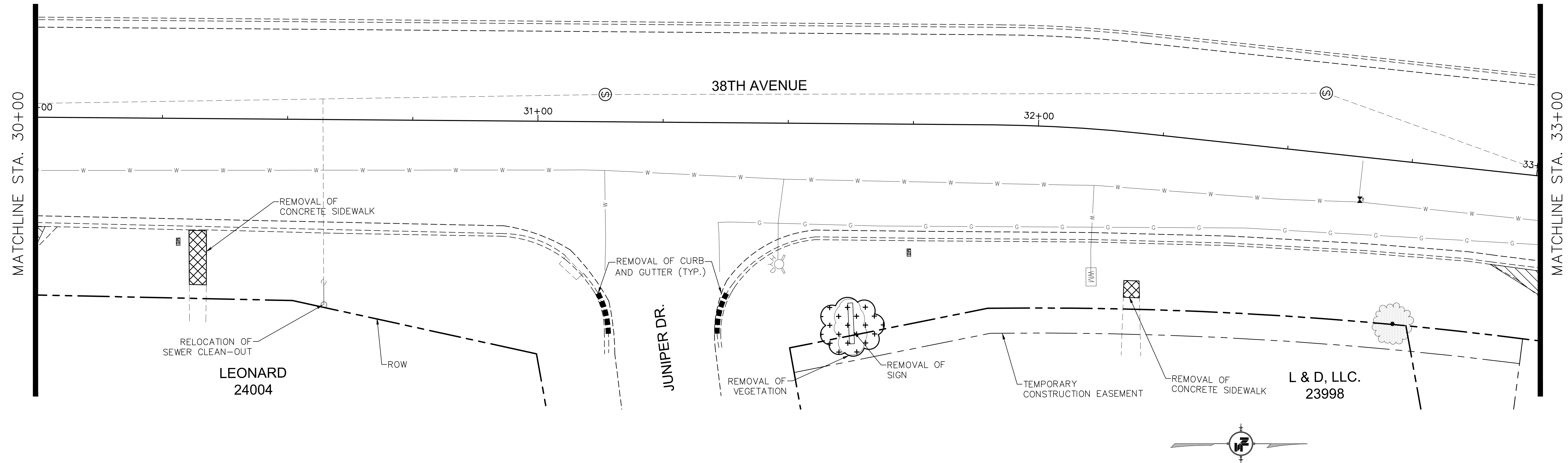
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



EXISTING CONDITIONS &
DEMOLITION PLAN 38TH AVENUE
STA 24+00 TO STA 30+00

WORKING NUMBER:
DEMO-5

DRAWING NUMBER:
10



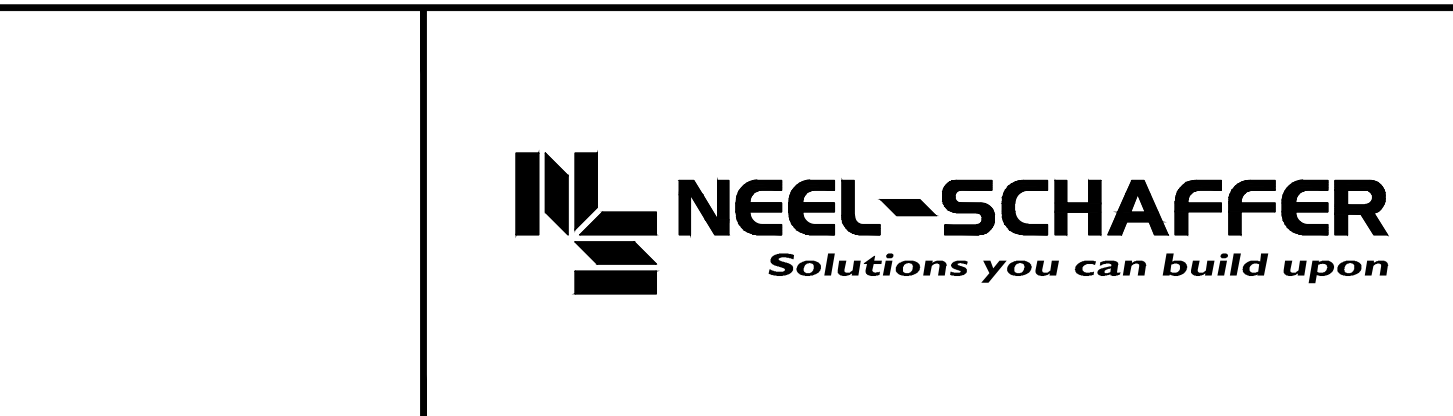
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NOTICE TO DRAWING HOLDER
NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

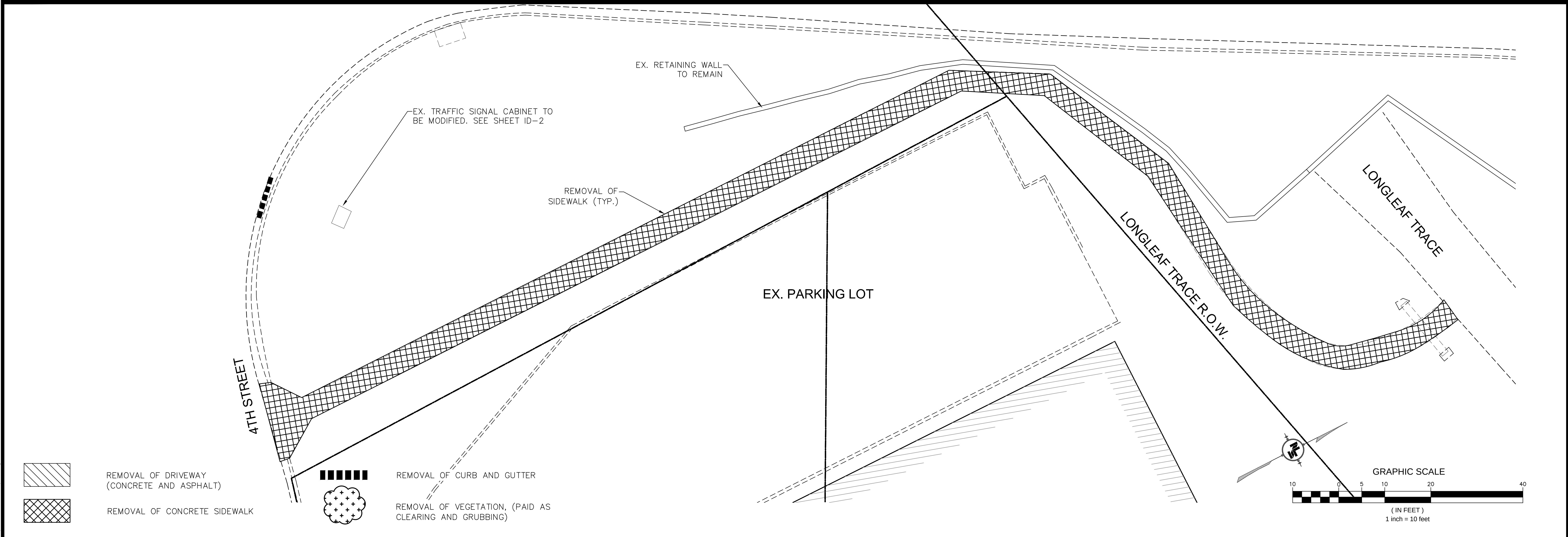
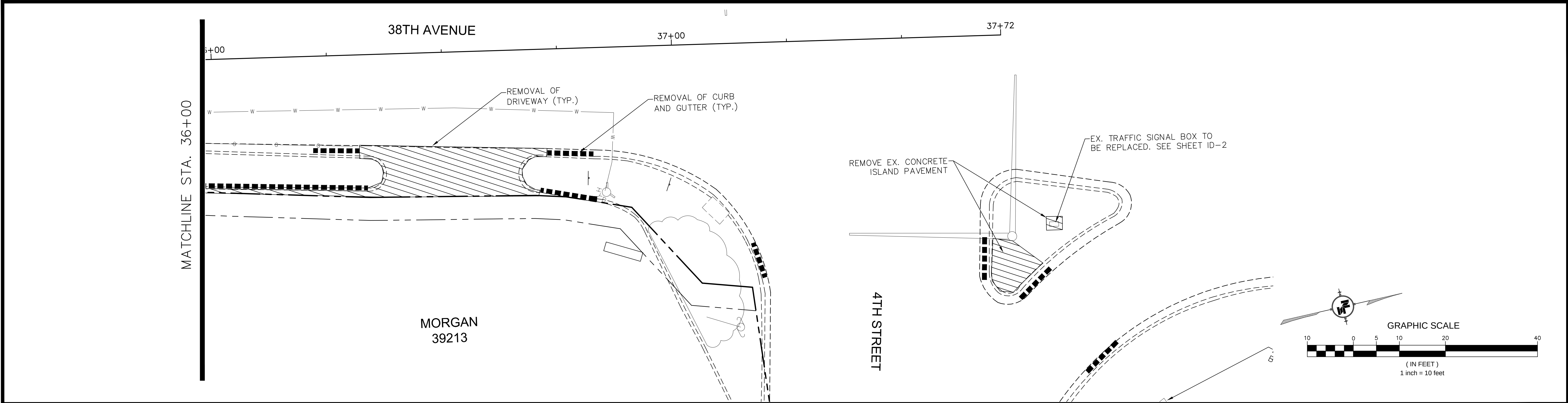
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NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33	
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				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

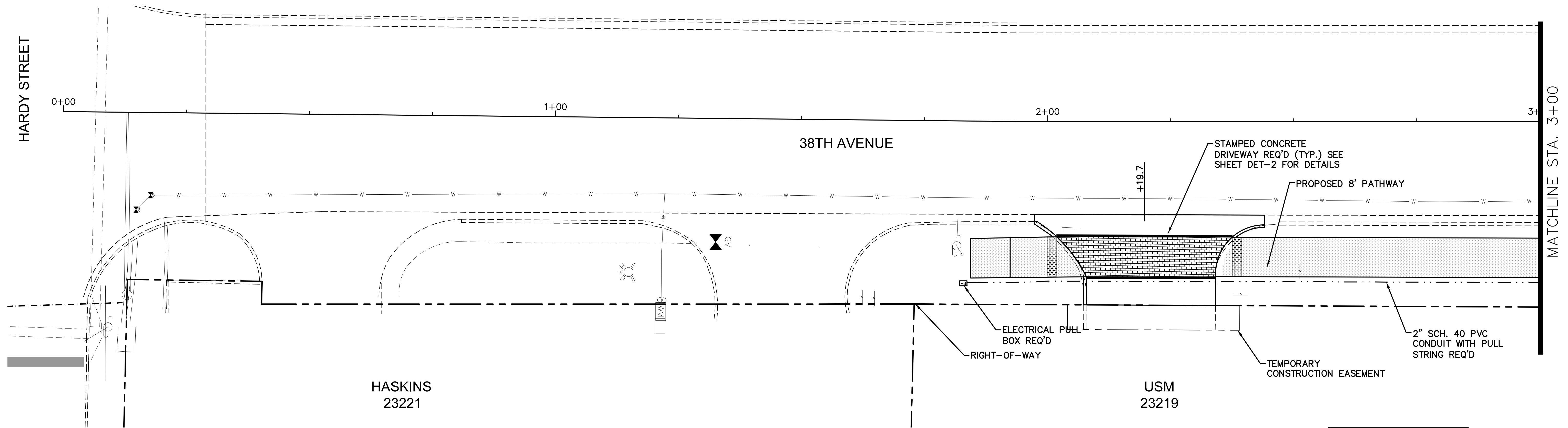


EXISTING CONDITIONS & DEMOLITION PLAN 38TH AVENUE STA 30+00 TO STA 36+00	
WORKING NUMBER: DEMO-6	DRAWING NUMBER: 11

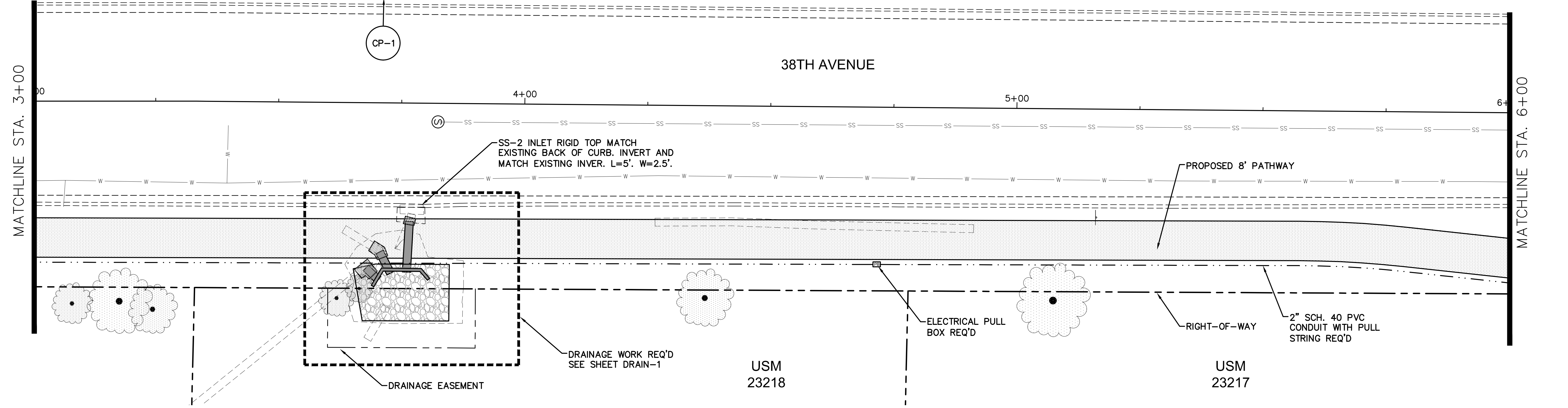


NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION				38TH AVENUE PATHWAY CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	EXISTING CONDITIONS & DEMOLITION PLAN 38TH AVENUE STA 36+00 TO LONGLEAF TRACE	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33							
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					QA/QC:		DATE:					

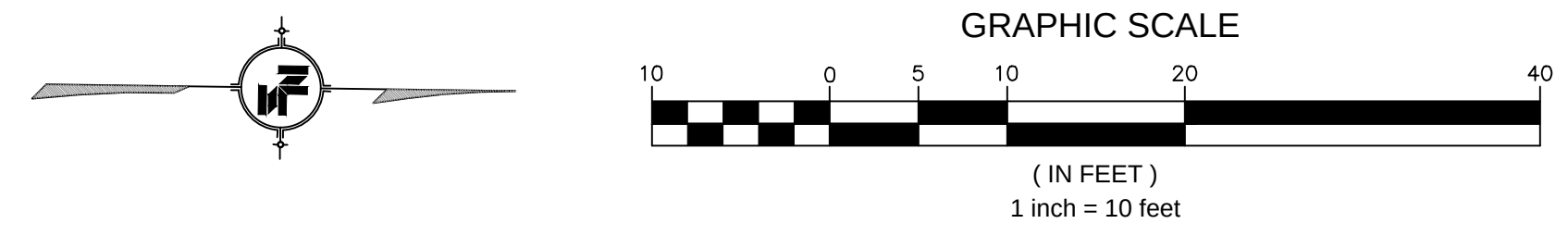
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NAME	: CP-1
ELEV	: 222.928'
NORTHING	: 664486.4480
EASTING	: 824287.956
DESC	: NAIL (TP 1052)



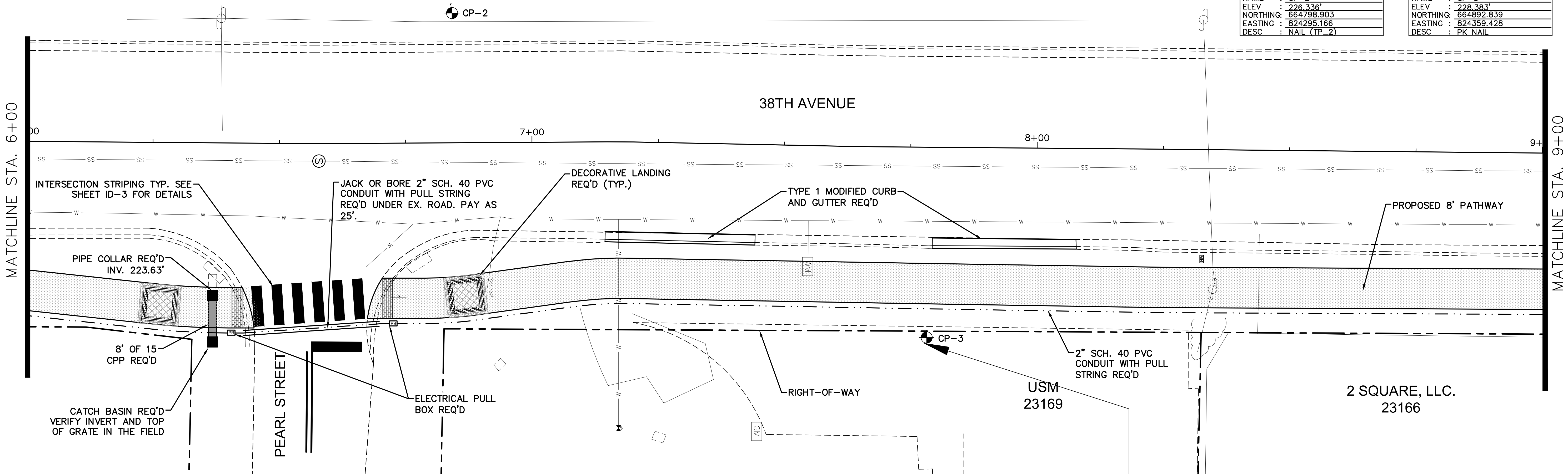
NOTES:
1. SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
2. ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN 3/4" OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.



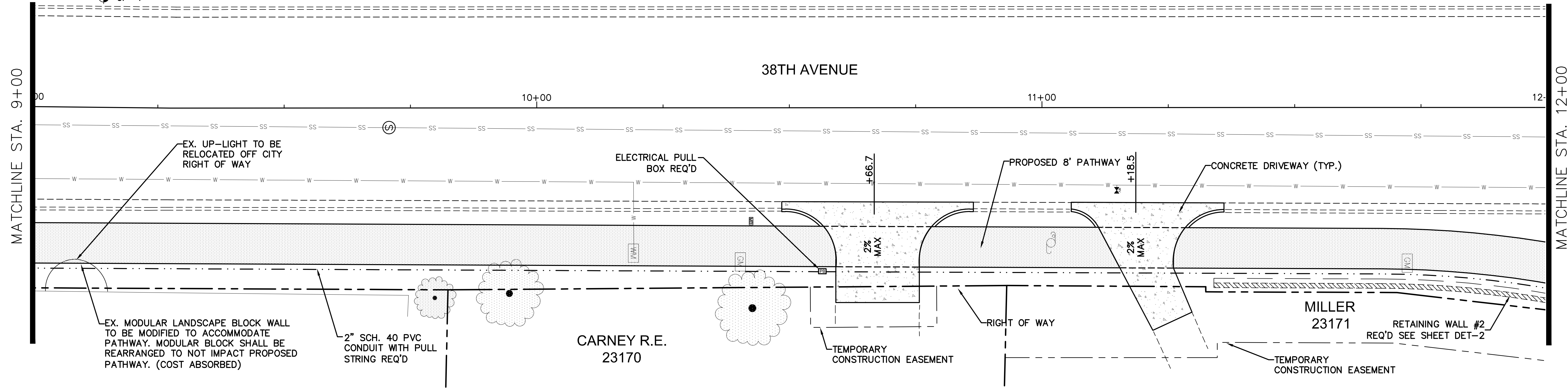
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NOTICE TO DRAWING HOLDER NEEL-SCHAFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION		38TH AVENUE PATHWAY CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY		38TH AVENUE STA 0+00 TO 6+00	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33				
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					QA/QC: DATE:				

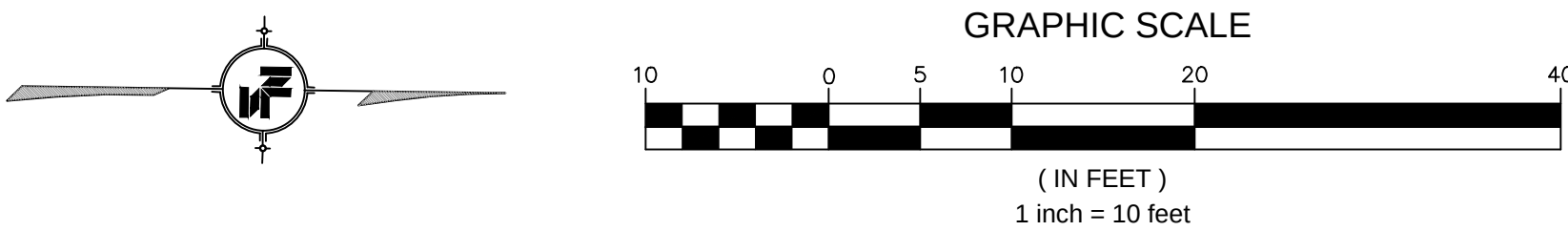
NAME	: CP-2	NAME	: CP-3
ELEV	: 226.336'	ELEV	: 228.383'
NORTHING	: 664798.903	NORTHING	: 664892.839
EASTING	: 824295.166	EASTING	: 824359.428
DESC	: NAIL (TP_2)	DESC	: PK NAIL



NAME	: CP-4
ELEV	: 230.796'
NORTHING	: 665028.983
EASTING	: 824301.079
DESC	: NAIL (TP_1055)



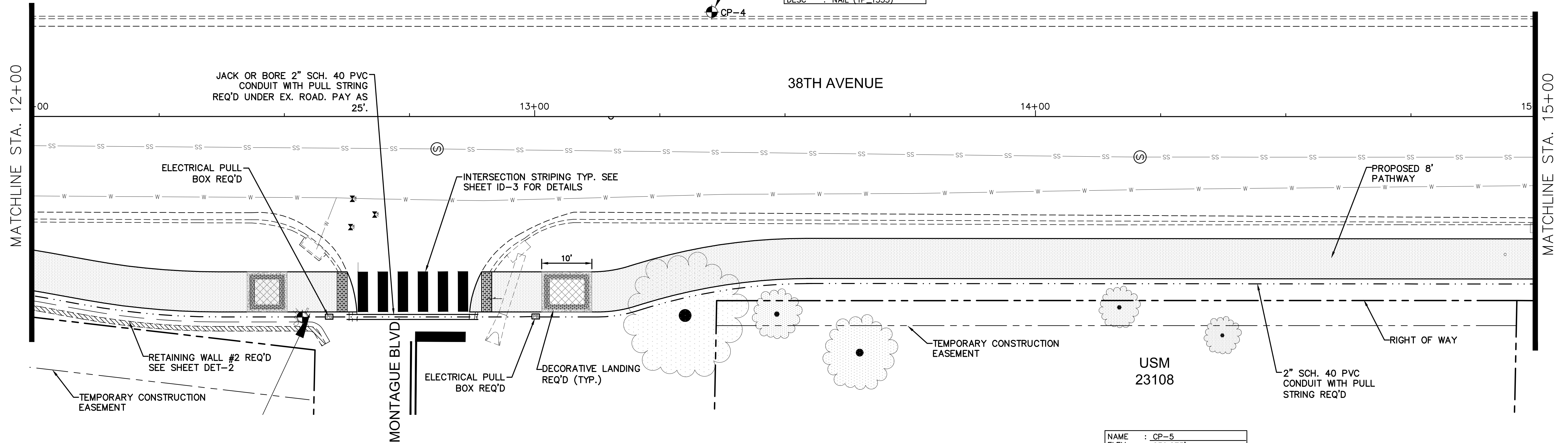
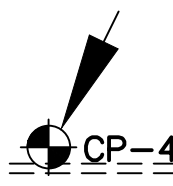
- NOTES:
- SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
 - ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN $\frac{1}{8}$ " OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.



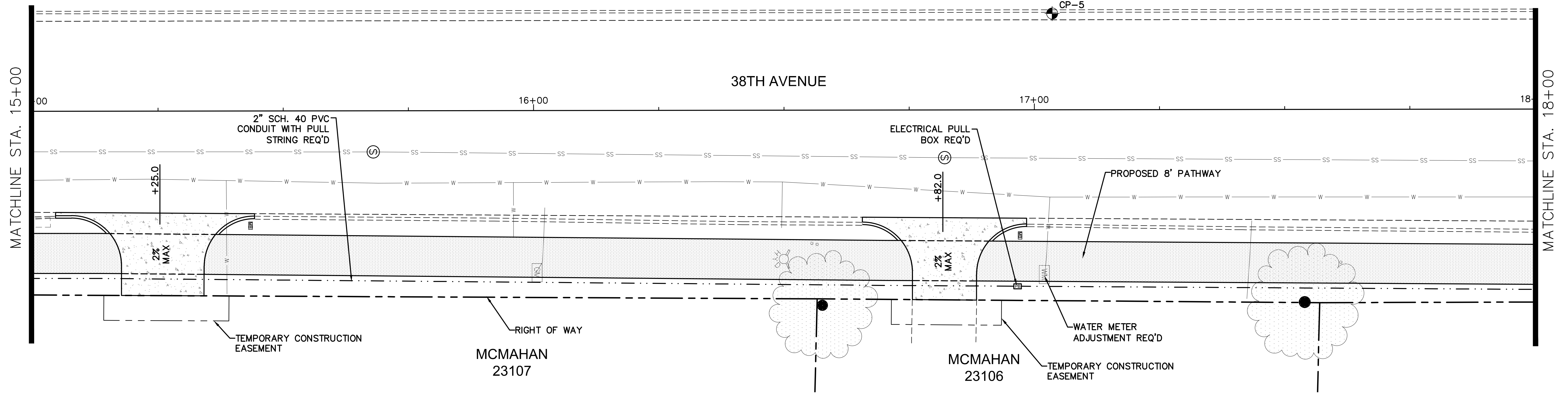
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NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION		38TH AVENUE PATHWAY	CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY	NEEL-SCHAFFER Solutions you can build upon	38TH AVENUE STA 6+00 TO 12+00	
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					CHKD:				DATE:	
					QA/QC:				DATE:	
								PP-2	14	

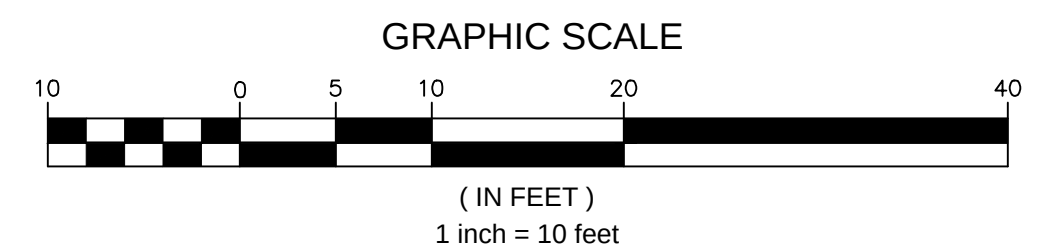
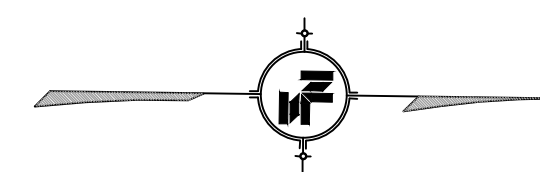
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ELEV : 227.754'
NORTHING: 665450.059
EASTING : 824302.224
DESC : NAIL (TP_1333)



NAME : CP-5
ELEV : 236.275'
NORTHING: 665818.252
EASTING : 824303.508
DESC : NAIL (TP_1413)



- NOTES:
- SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
 - ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN $\frac{1}{4}$ " OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.



NOTICE TO DRAWING HOLDER

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				QA/QC:	DATE:

38TH AVENUE PATHWAY

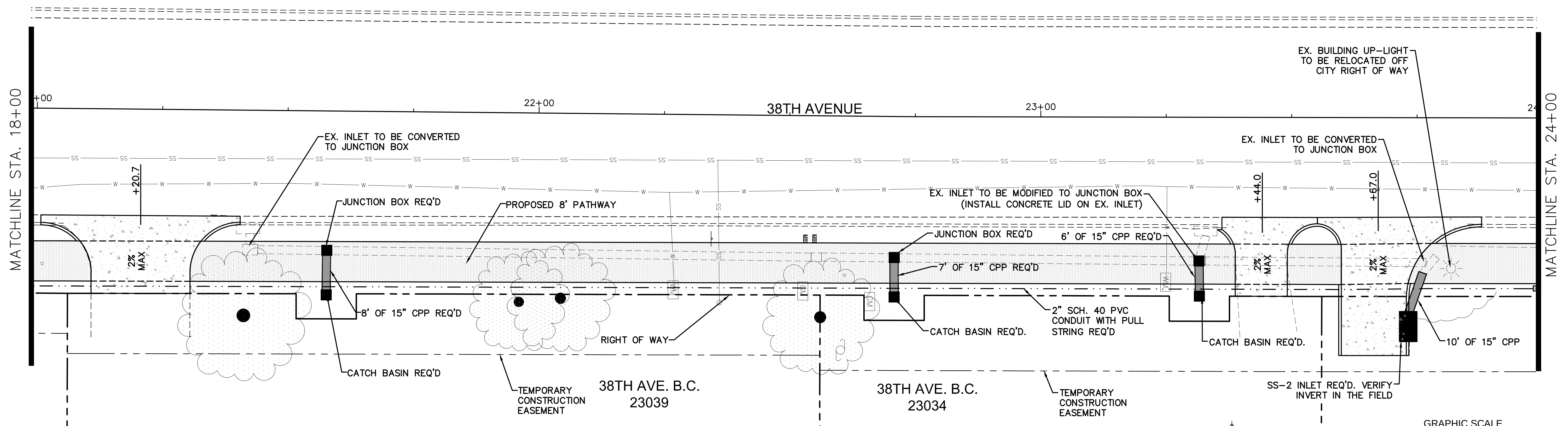
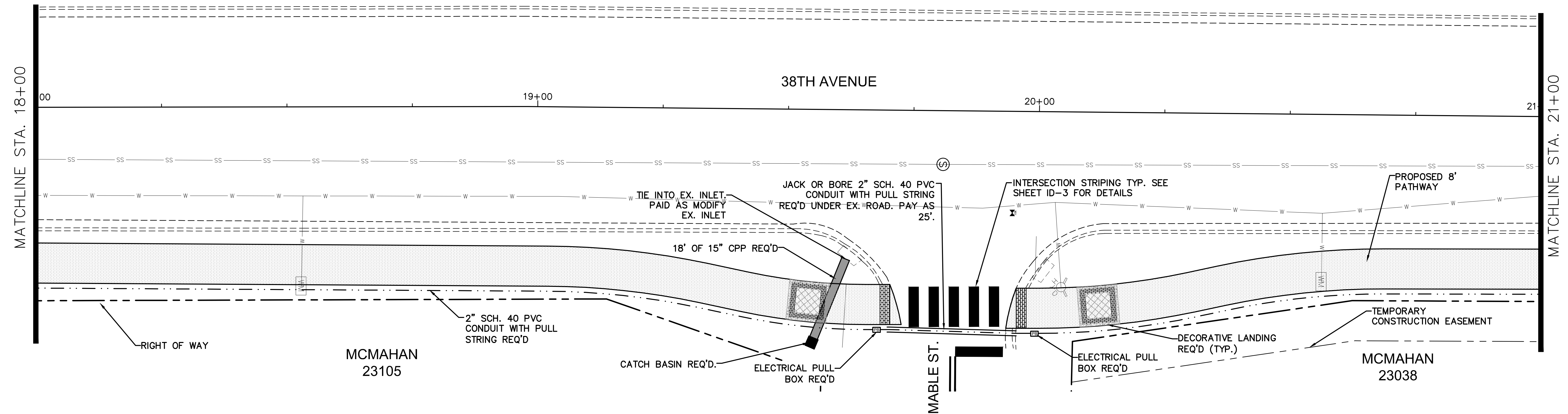
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



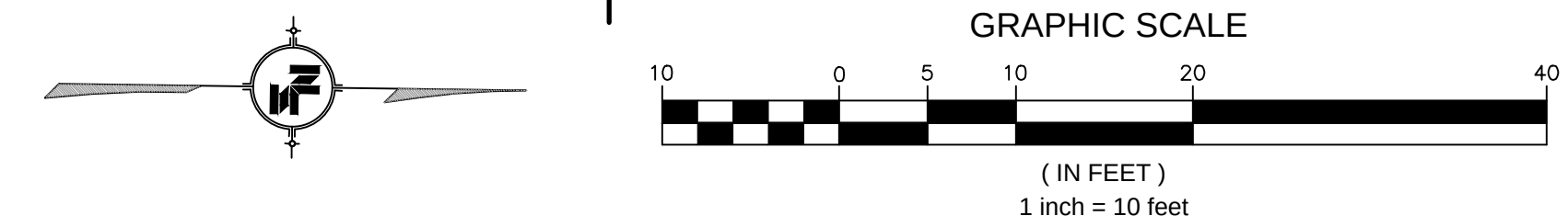
38TH AVENUE
STA 12+00 TO 18+00

WORKING NUMBER:
PP-3

DRAWING NUMBER:
15



NOTES:
 1. SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
 2. ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN $\frac{1}{2}$ " OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.



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REVISIONS				DRAWING INFORMATION	
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				DSGN:	MWE DATE: 01/2019
				DRWN:	WTA DATE: 01/2019
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				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
 HATTIESBURG, MS
 FORREST COUNTY

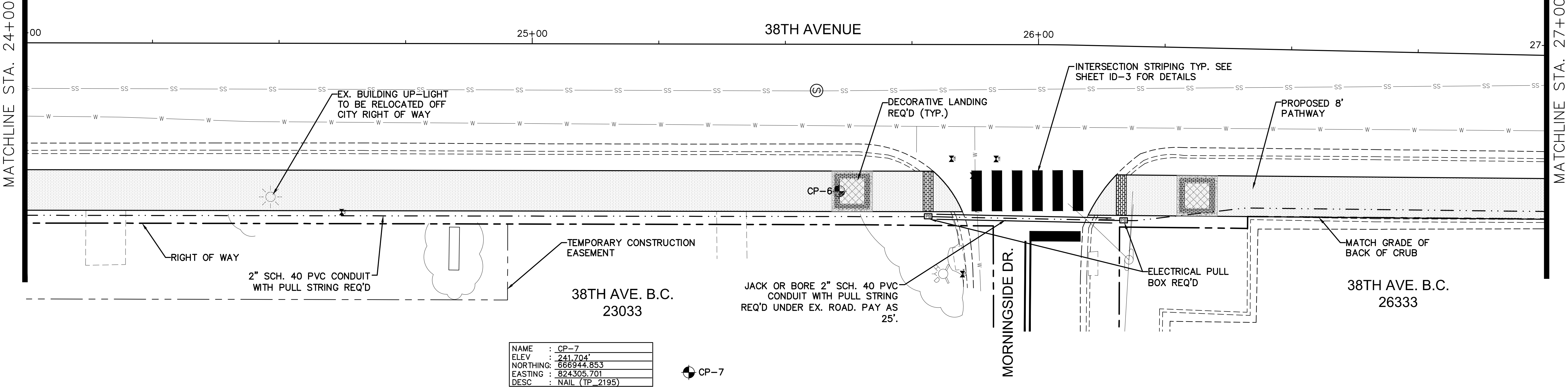


38TH AVENUE
 STA 18+00 TO 24+00

WORKING NUMBER:
 PP-4

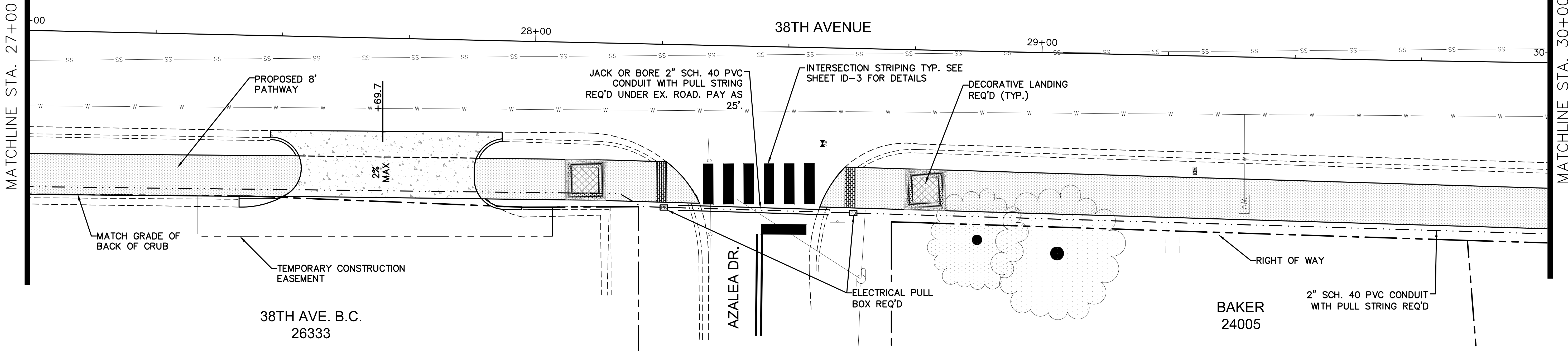
DRAWING NUMBER:
 16

NAME	: CP-6
ELEV	: 239.400'
NORTHING	: 666675.362
EASTING	: 824355.716
DESC	: NAIL (TP_2196)

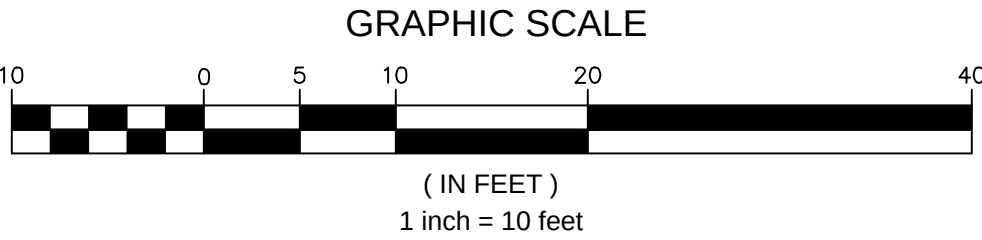


NAME	: CP-7
ELEV	: 241.704'
NORTHING	: 666944.853
EASTING	: 824305.701
DESC	: NAIL (TP_2195)

CP-7



- NOTES:
- SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
 - ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN $\frac{1}{8}$ " OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.



1/14/2019 10:44 AM C:\Users\jg\OneDrive\Projects\866718 - 38th_ave\Layout.dwg

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				DSGN: MWE	DATE: 01/2019
				DRWN: WTA	DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



NEEL-SCHAFFER
Solutions you can build upon

38TH AVENUE STA 24+00 TO 30+00	
WORKING NUMBER: PP-5	DRAWING NUMBER: 17

MATCHLINE STA. 30+00

MATCHLINE STA. 33+00

MATCHLINE STA. 33+00

MATCHLINE STA. 36+00

38TH AVENUE

38TH AVENUE

LEONARD
24004

L & D, LLC.
23998

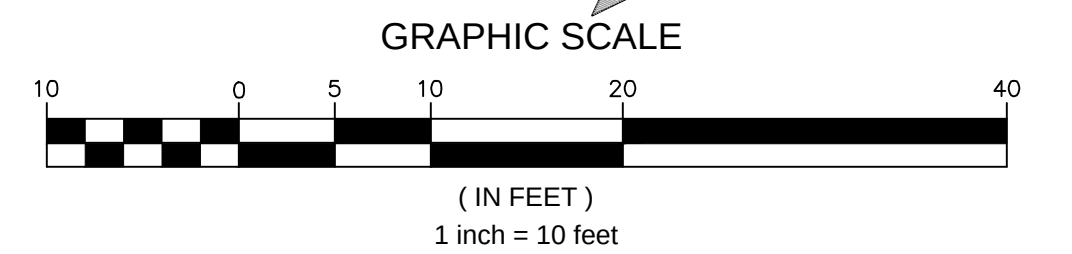
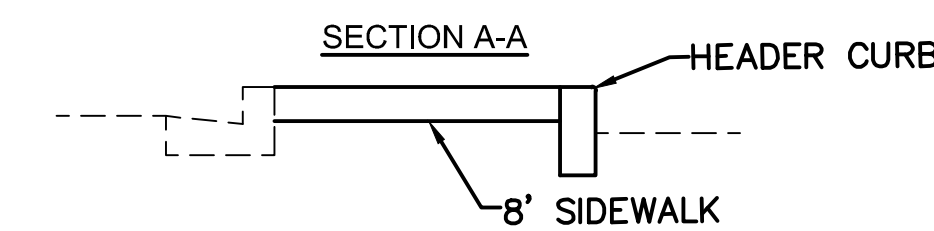
PINEY WOODS
23999

VILLARREAL
23997

MORGAN
39213

- NOTES:
1. SEE SHEET ID-2 FOR DETAILS FOR SIDEWALK RAMPS AND DETECTABLE WARNINGS.
 2. ALL WATER VALVES/METERS TO BE ADJUSTED TO FINISHED GRADE. WATER VALVES/METERS ADJUSTED TO MORE THAN $\frac{1}{2}$ " OF FINISHED GRADE WILL NOT BE ACCEPTED AND WILL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.

NAME	: CP-8
ELEV	: 238.999'
NORTHING	: 667617.991
EASTING	: 824375.947
DESC	: NAIL (TP 2194)



NOTICE TO DRAWING HOLDER

NEEL-SCHAFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS				DRAWING INFORMATION	
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				SURVEYED BY:	CLEARPOINT ENGINEERS
				DSGN:	MWE DATE: 01/2019
				DRWN:	WTA DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

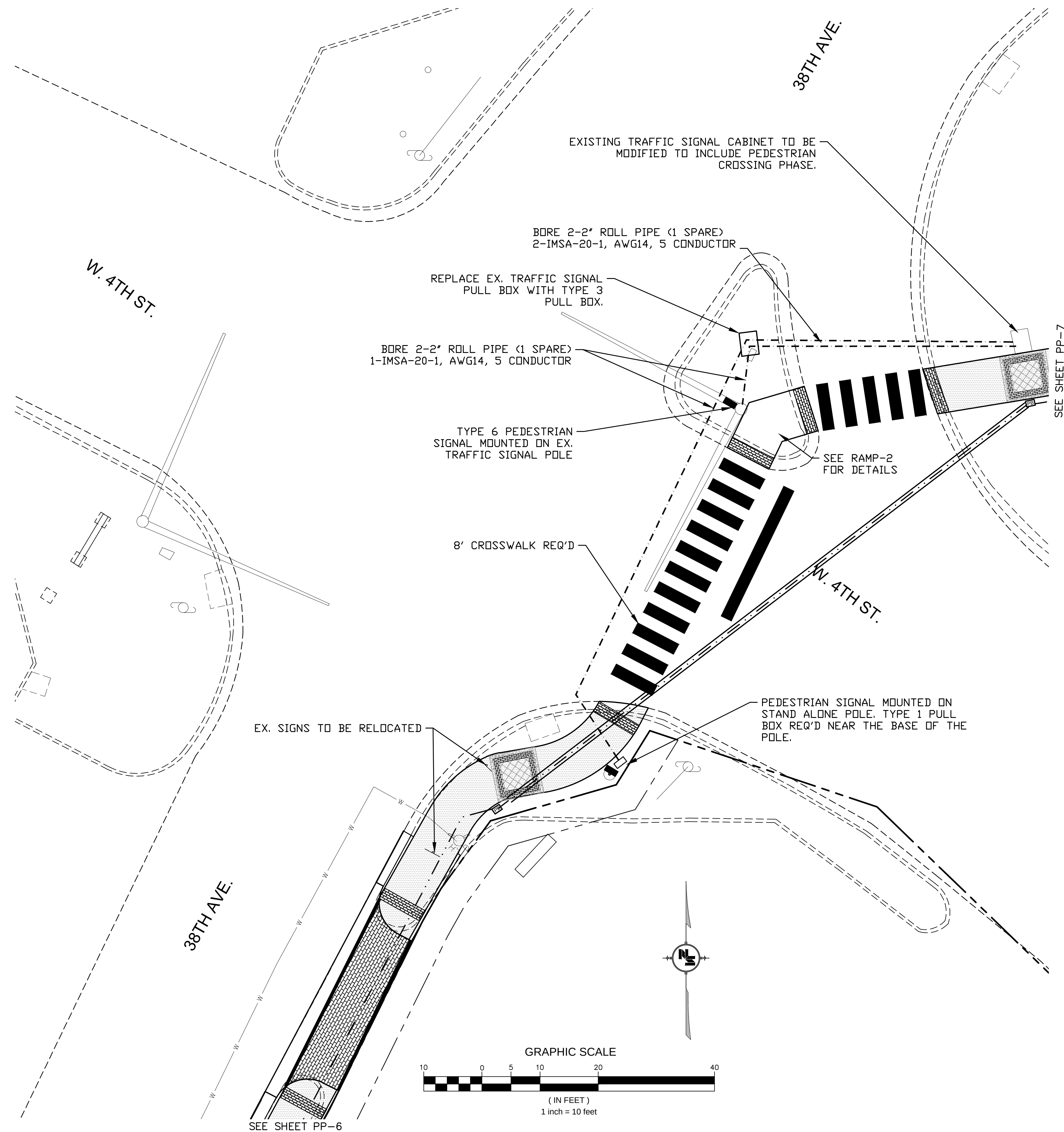
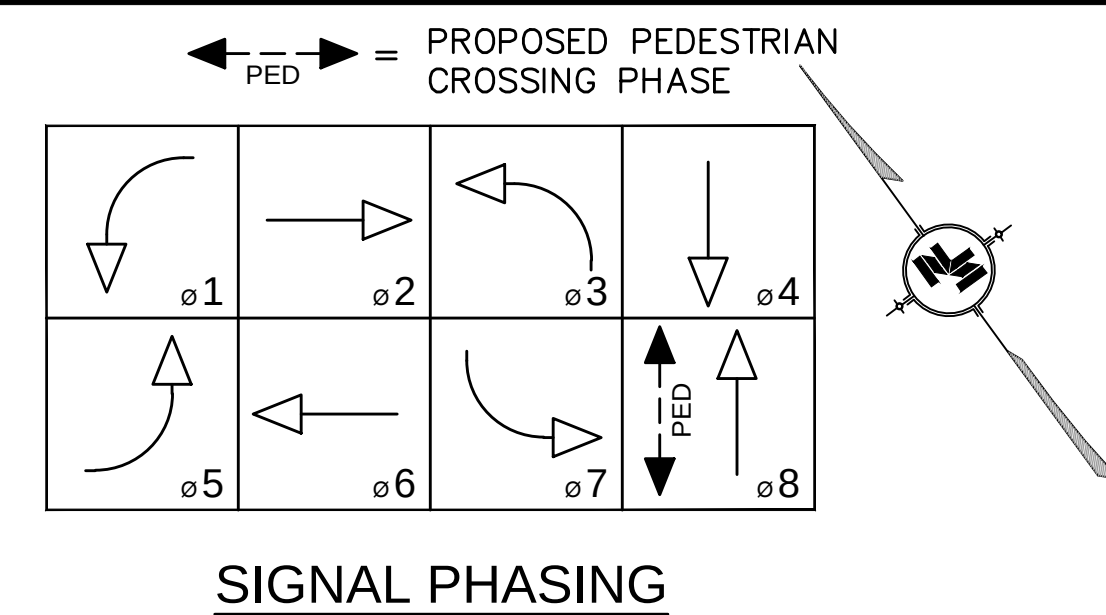


38TH AVENUE
STA 30+00 TO 36+00

WORKING NUMBER:
PP-6

DRAWING NUMBER:
18

1/16/2019 11:31 AM C:\Users\jg\Documents\Projects\8667-18-33\38th_ave\Layout.dwg



*** NOTES:

1. SEE SHEETS TSD-1 THROUGH TSD-7 FOR TRAFFIC SIGNAL DETAILS
2. CONTRACTOR SHALL MODIFY EX. TRAFFIC SIGNAL CONTROLLER TO ACCEPT NEW PEDESTRIAN PHASING. LOAD SWITCH REQ'D TO BE INCLUDED IN CONTROLLER MODIFICATION.

NOTICE TO DRAWING HOLDER

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				CHKD:	DATE:
				QA/QC:	DATE:

DRAWING INFORMATION	
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FILENAME: Layout.dwg	
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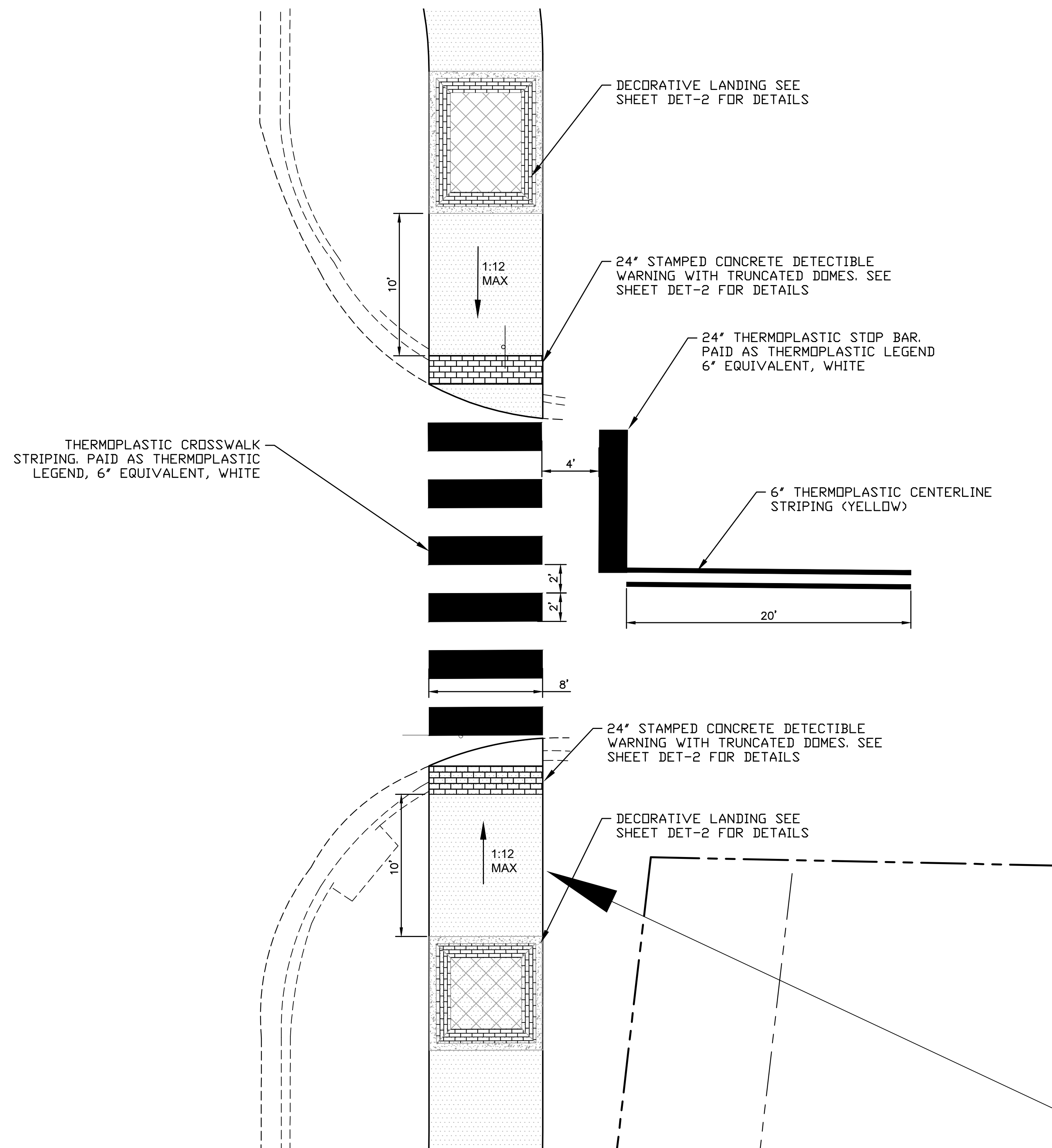
38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

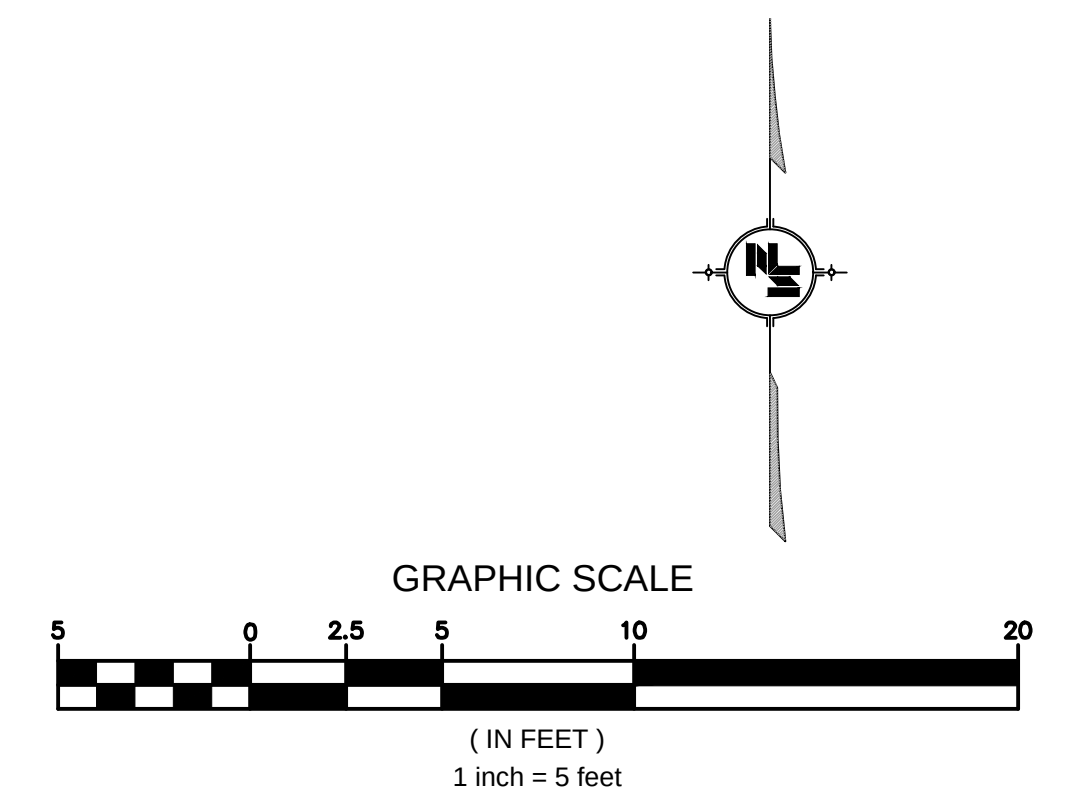


38TH AVENUE INTERSECTION DETAILS #1

WORKING NUMBER: ID-1	DRAWING NUMBER: 20
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TYPICAL INTERSECTION DETAIL



NOTICE TO DRAWING HOLDER

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				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

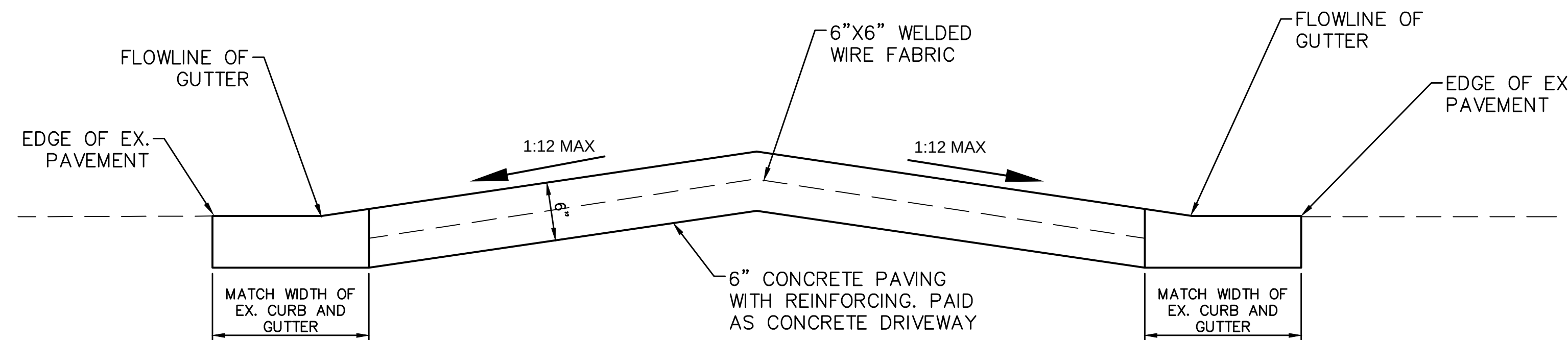
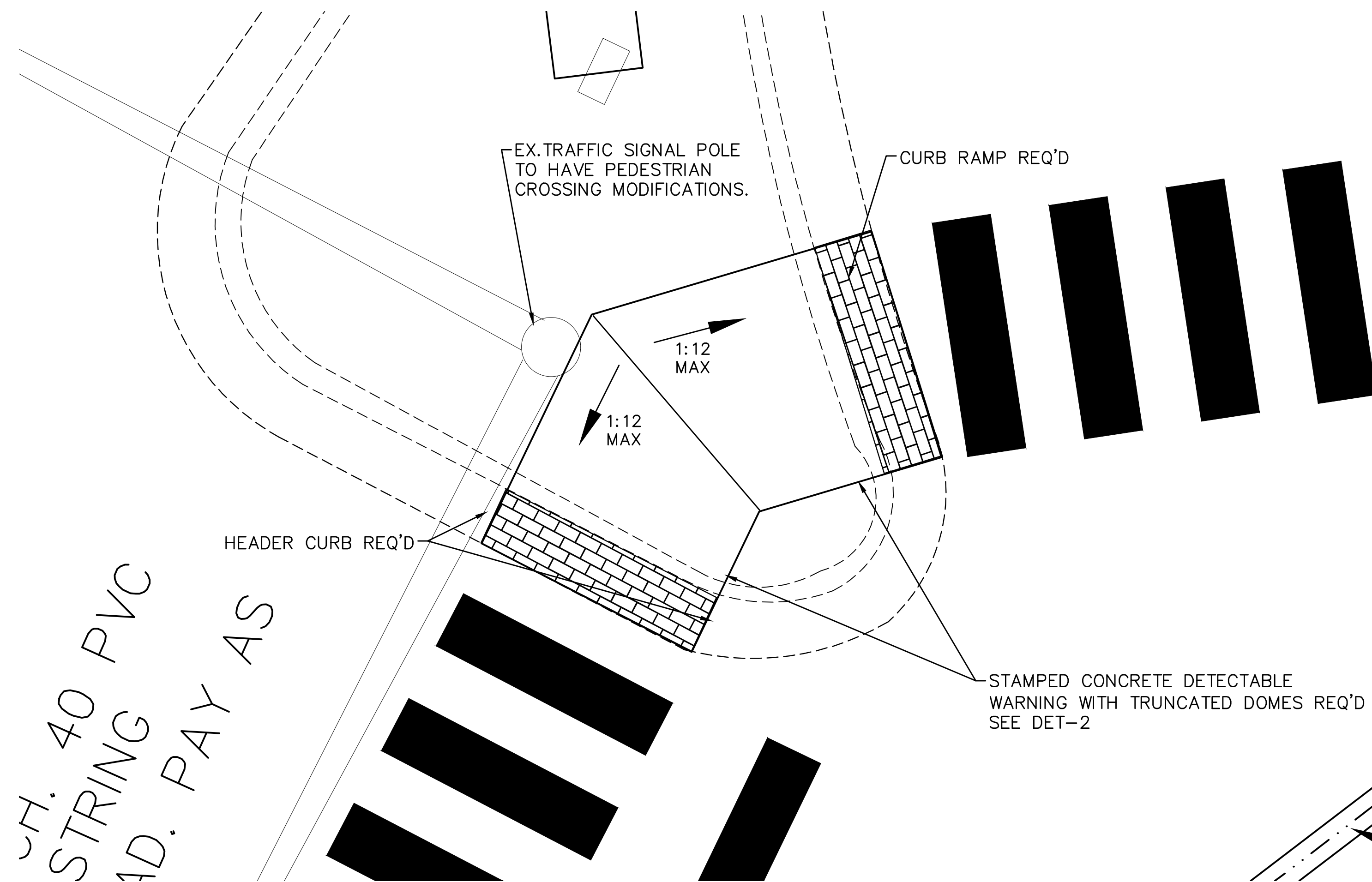
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



38TH AVENUE
INTERSECTION DETAILS #2

WORKING NUMBER:
ID-2

DRAWING NUMBER:
21

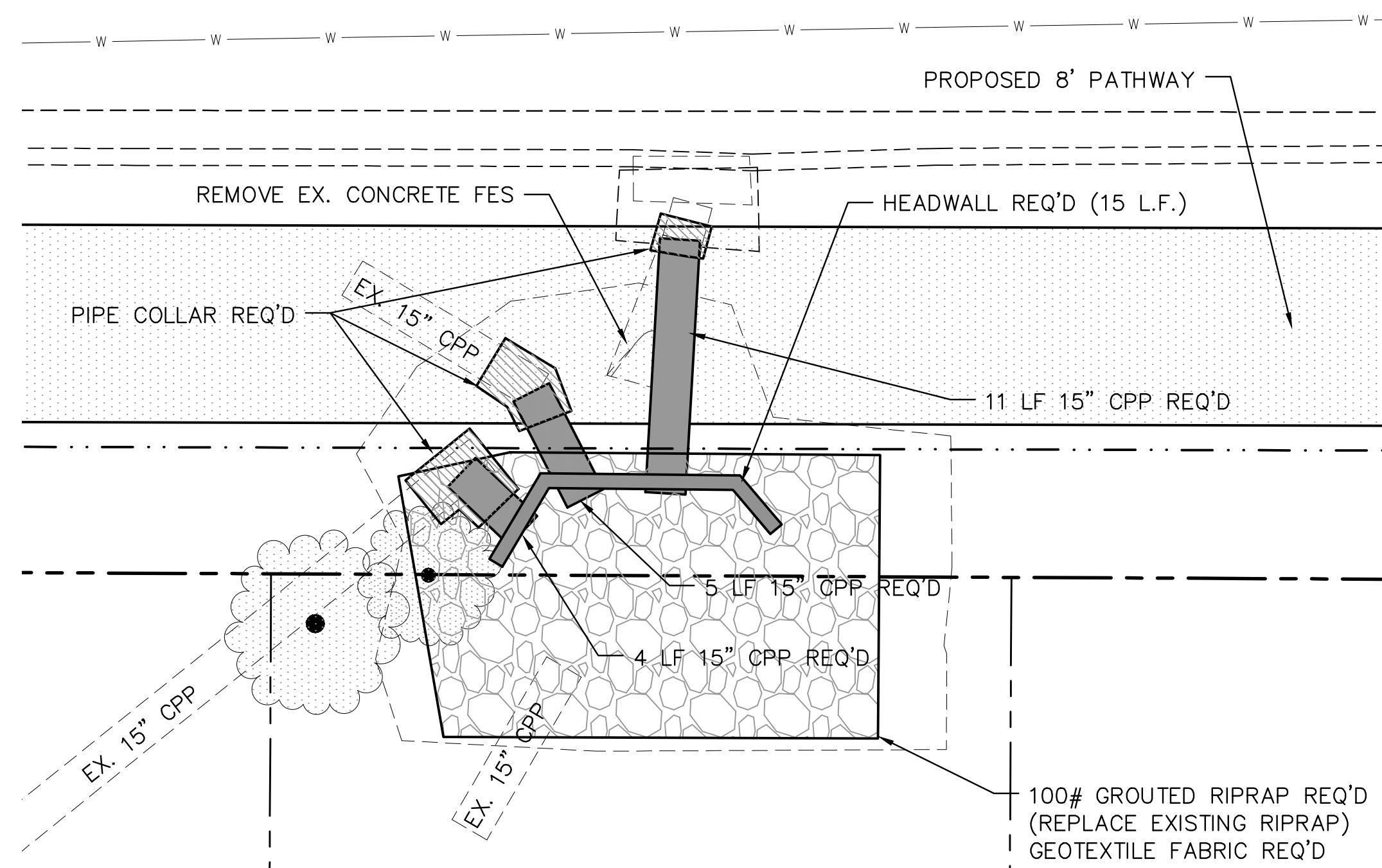


SPLITTER ISLAND CURB RAMP @ NE CORNER OF 4TH ST. AND 38TH AVE.
SECTION VIEW

SPLITTER ISLAND CURB RAMP @ NE CORNER OF 4TH ST. AND 38TH AVE.

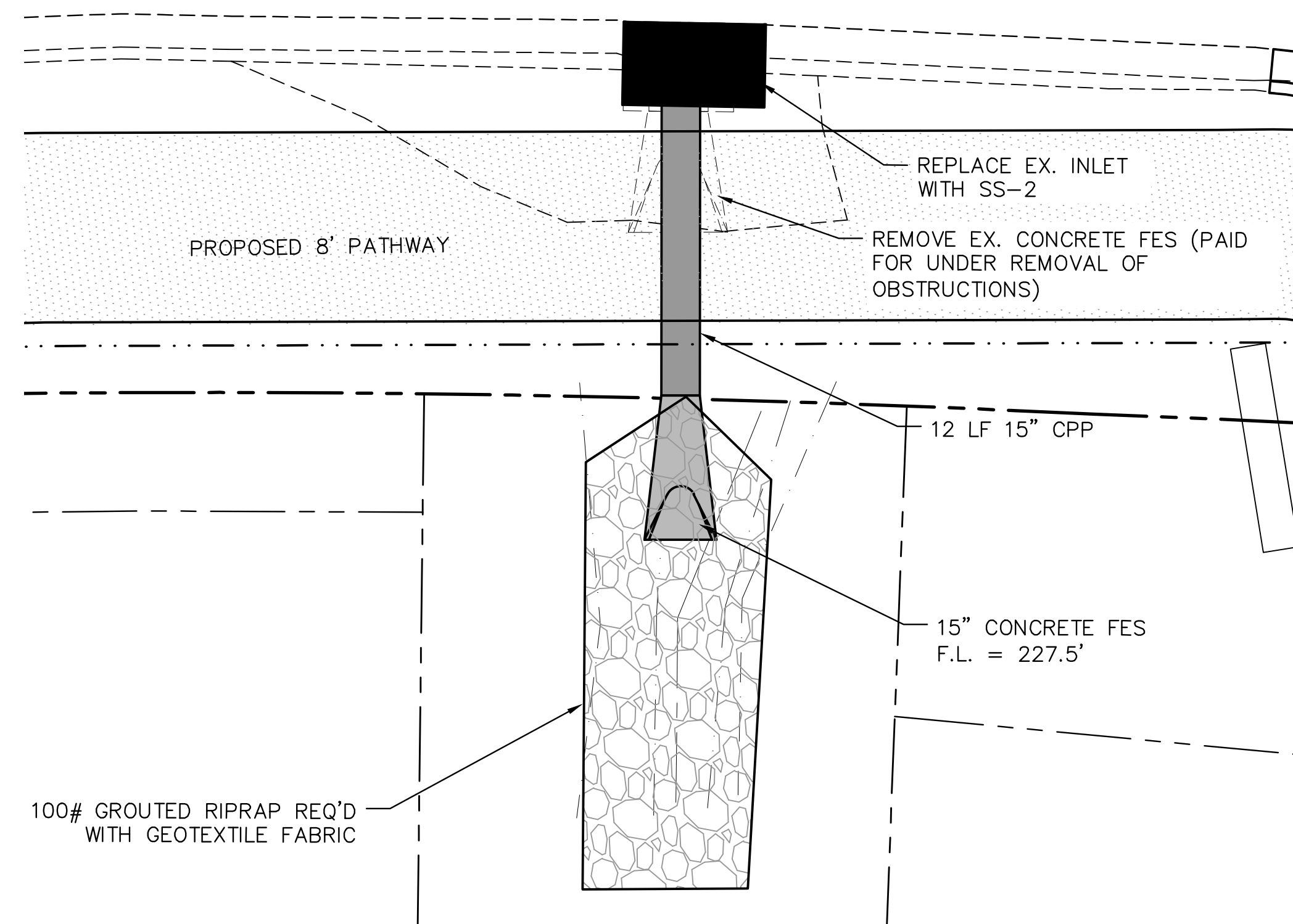
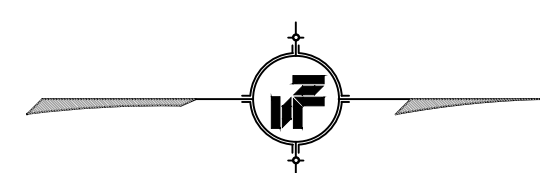
1/14/2019 10:51 AM C:\Users\jg\projects\8666718 - 38th_ave\layout.dwg

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		38TH AVENUE PATHWAY CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	38TH AVENUE CURB RAMP DETAILS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO: B667-18-33					
					FILENAME: Layout.dwg					
					SCALE: 1" = 5'					
					SURVEYED BY: CLEARPOINT ENGINEERS					
					DSGN: MWE	DATE: 01/2019				
					DRWN: WTA	DATE: 01/2019				
					CHKD:	DATE:				
					QA/QC:	DATE:				
								WORKING NUMBER: RAMP-1	DRAWING NUMBER: 22	

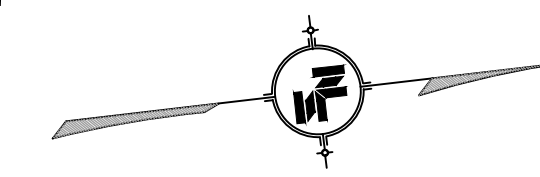


NOTE:
CPP TO BE PERFORATED AND WRAPPED IN A SOCK. (COST ABSORBED)

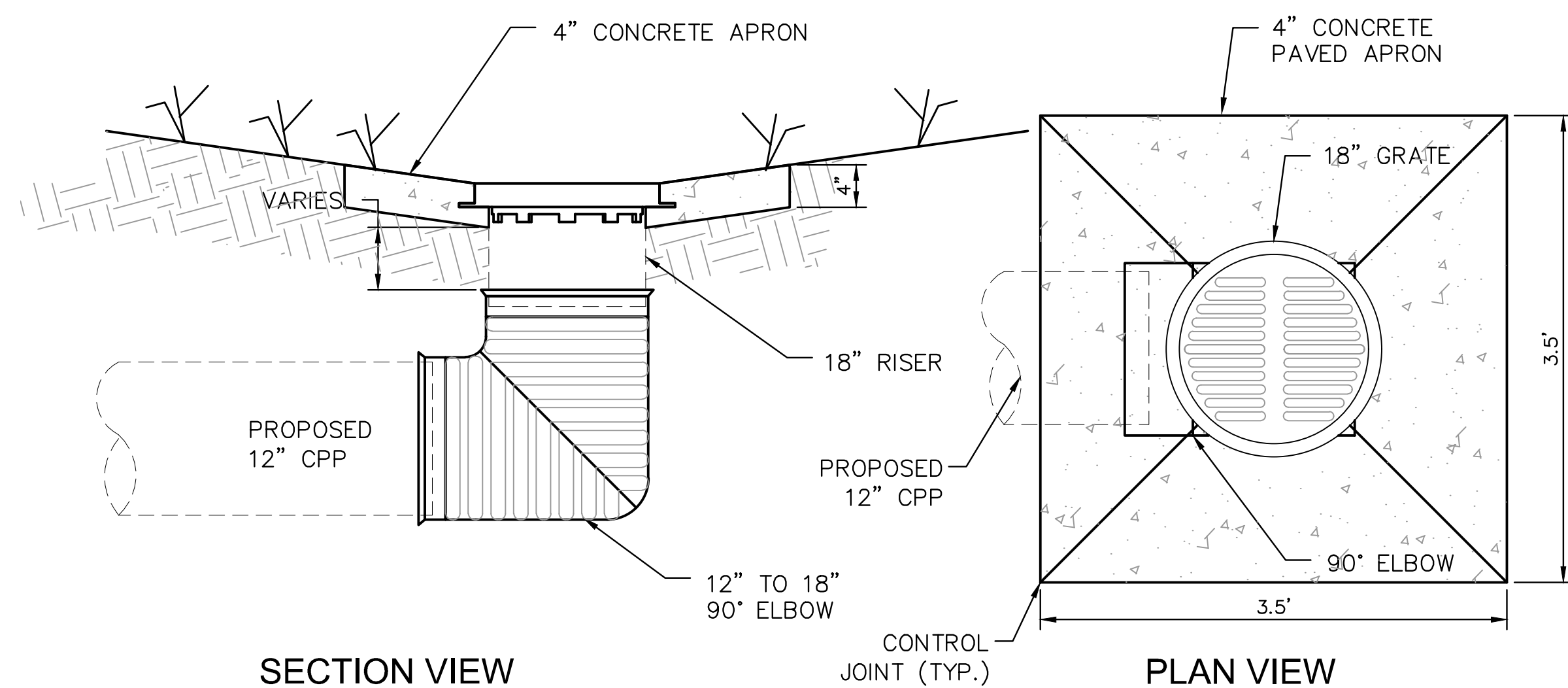
38TH AVENUE
STA. 3+75
NOT TO SCALE



38TH AVENUE
STA. 33+12
NOT TO SCALE



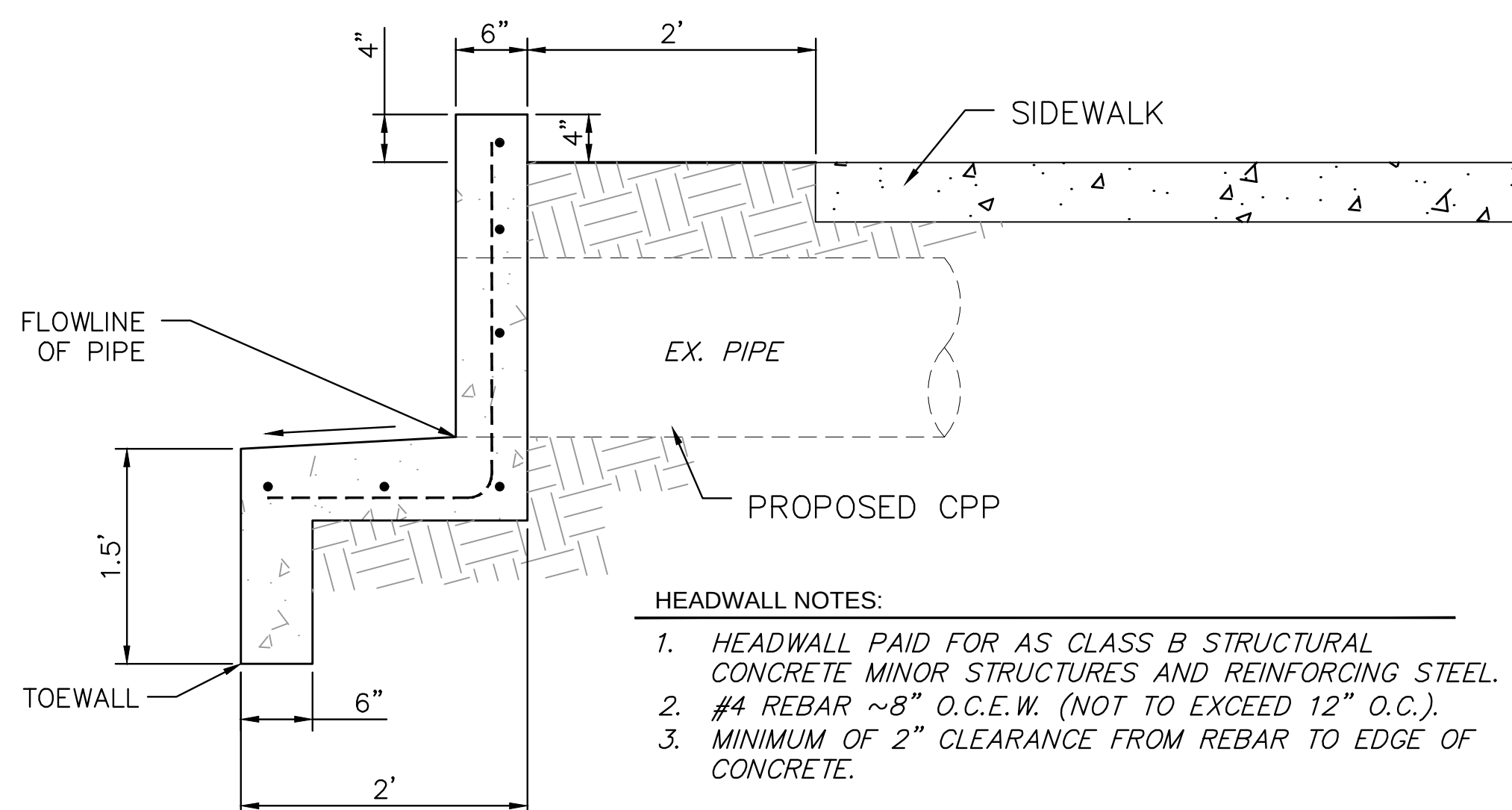
NOTE:
PAY AS INSTALLATION OF 18" CATCH BASIN, PER PLANS, PER EACH, INCLUDES INLINE DRAIN, 90° ELBOW, RISER, GRATE, PAVED APRON, AND ALL WORK ASSOCIATED WITH INSTALLING CATCH BASIN AS SHOWN IN THE PLANS.



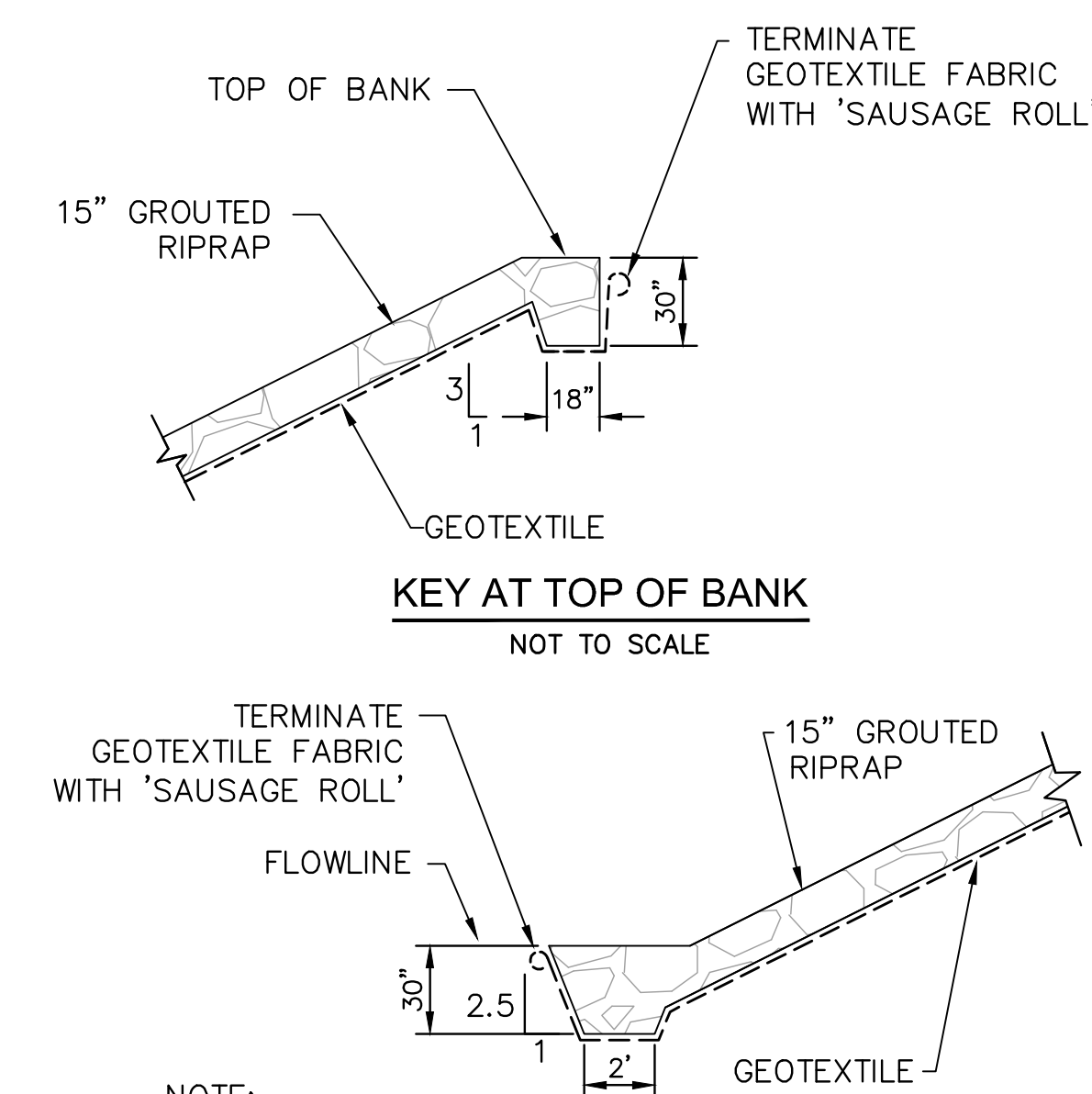
SECTION VIEW

PLAN VIEW

18" CATCH BASIN DETAIL
NOT TO SCALE



TYPICAL HEADWALL
CROSS SECTION
NOT TO SCALE



TOEWALL DETAIL
NOT TO SCALE

TYPICAL GROUTED RIPRAP DETAIL
NOT TO SCALE

NOTICE TO DRAWING HOLDER

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				QA/QC: DATE:	

38TH AVENUE PATHWAY

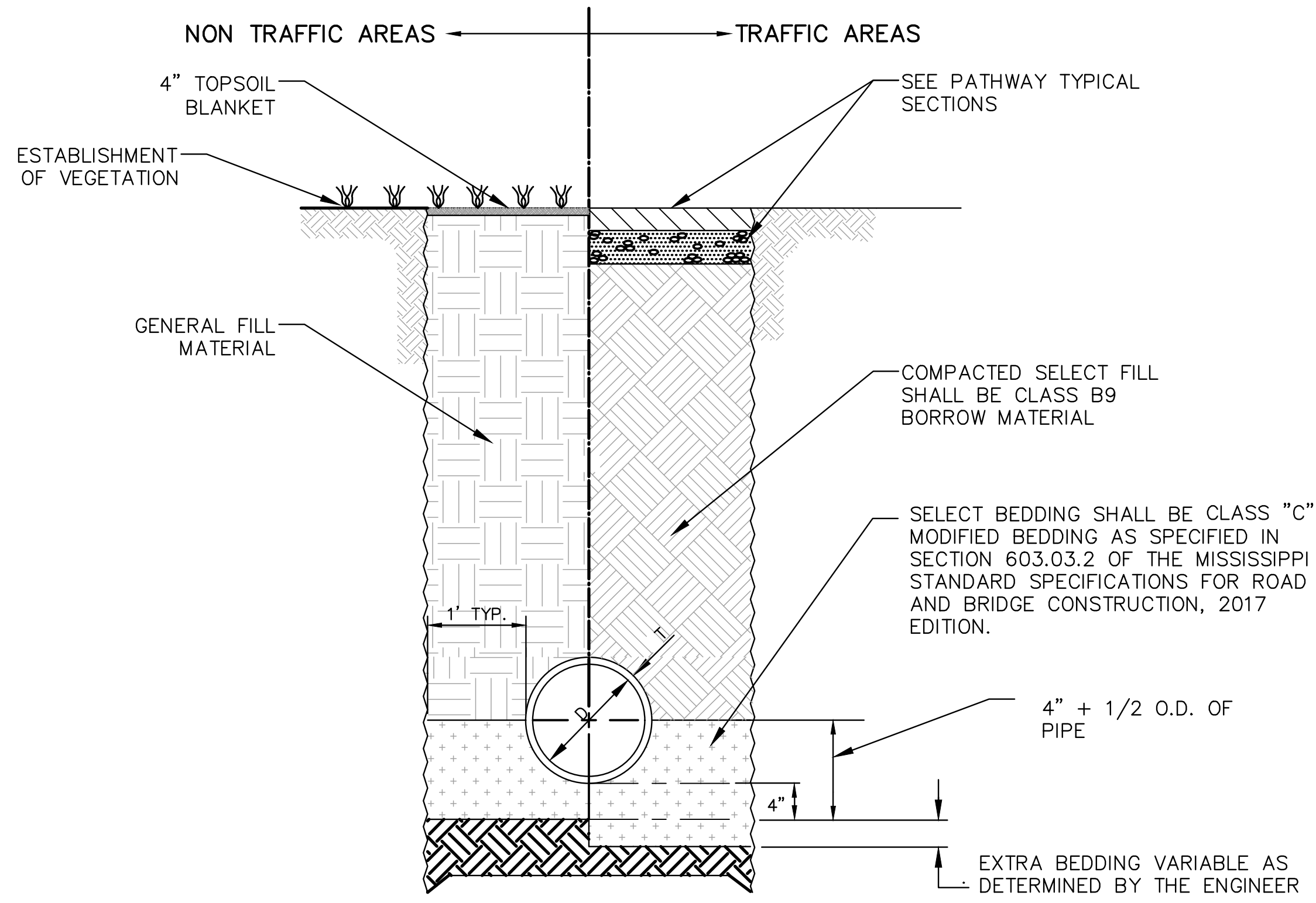
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



38TH AVENUE
DRAINAGE DETAILS

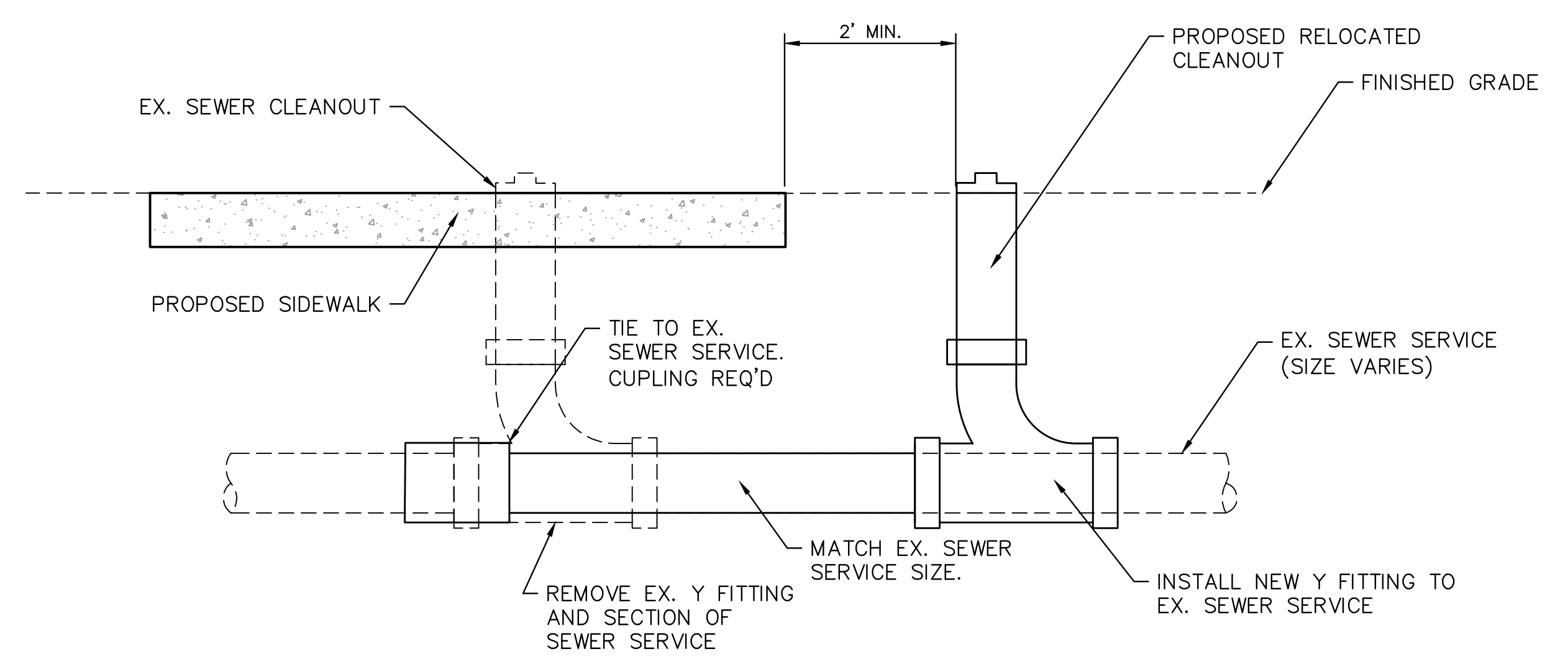
WORKING NUMBER:
DRAIN-1

DRAWING NUMBER:
23

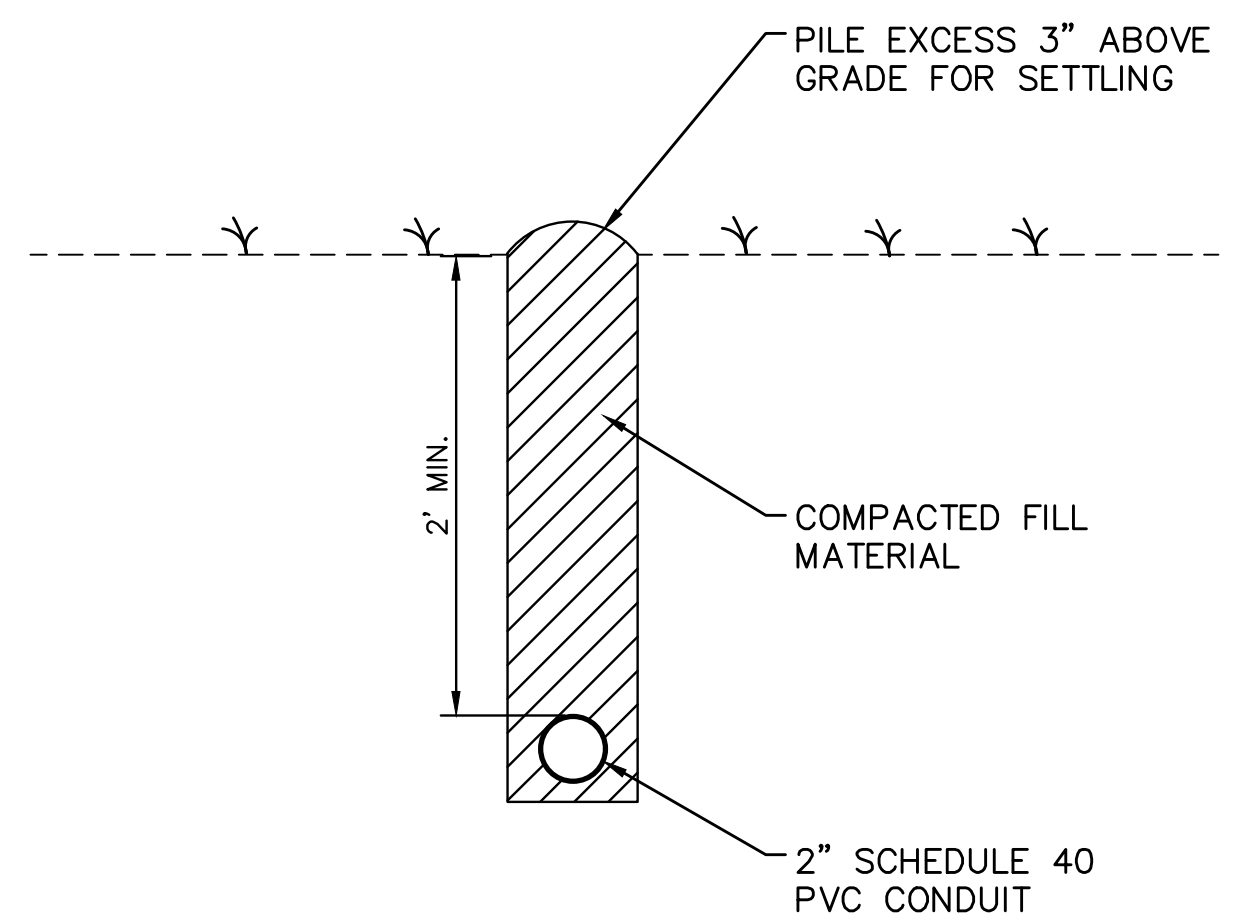


**TYPICAL TRENCH DETAILS
FOR DRAINAGE PIPE**
NOT TO SCALE

NOTE: THE COST OF CORRUGATED PIPE SHALL INCLUDE BUT NOT LIMITED TO STRUCTURE EXCAVATION, SELECT BEDDING, SELECT BACKFILL, FILTER SOCK, AND PERFORATIONS.



SEWER CLEANOUT RELOCATION DETAIL
NOT TO SCALE



CONDUIT TRENCHING DETAIL
NOT TO SCALE

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				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

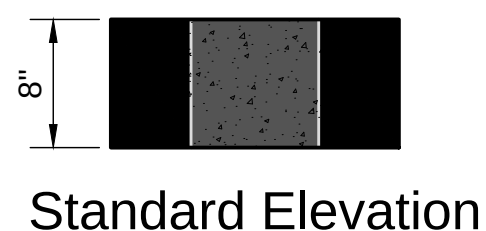
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



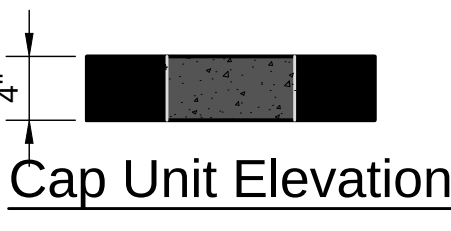
SITE DETAILS

WORKING NUMBER:	DRAWING NUMBER:
DET-1	24

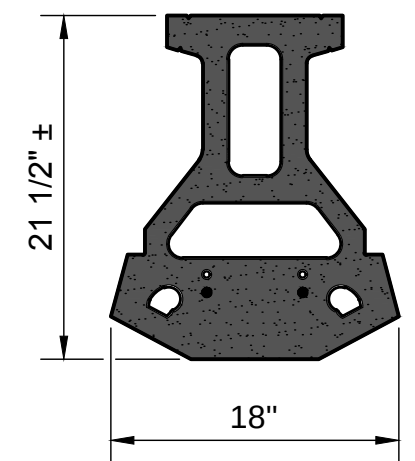
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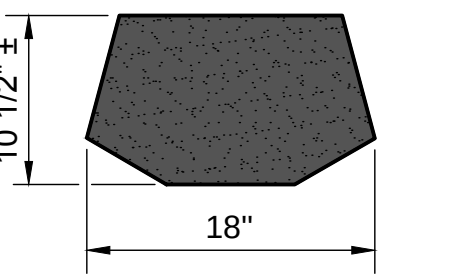
Standard Elevation



Cap Unit Elevation



Standard Plan



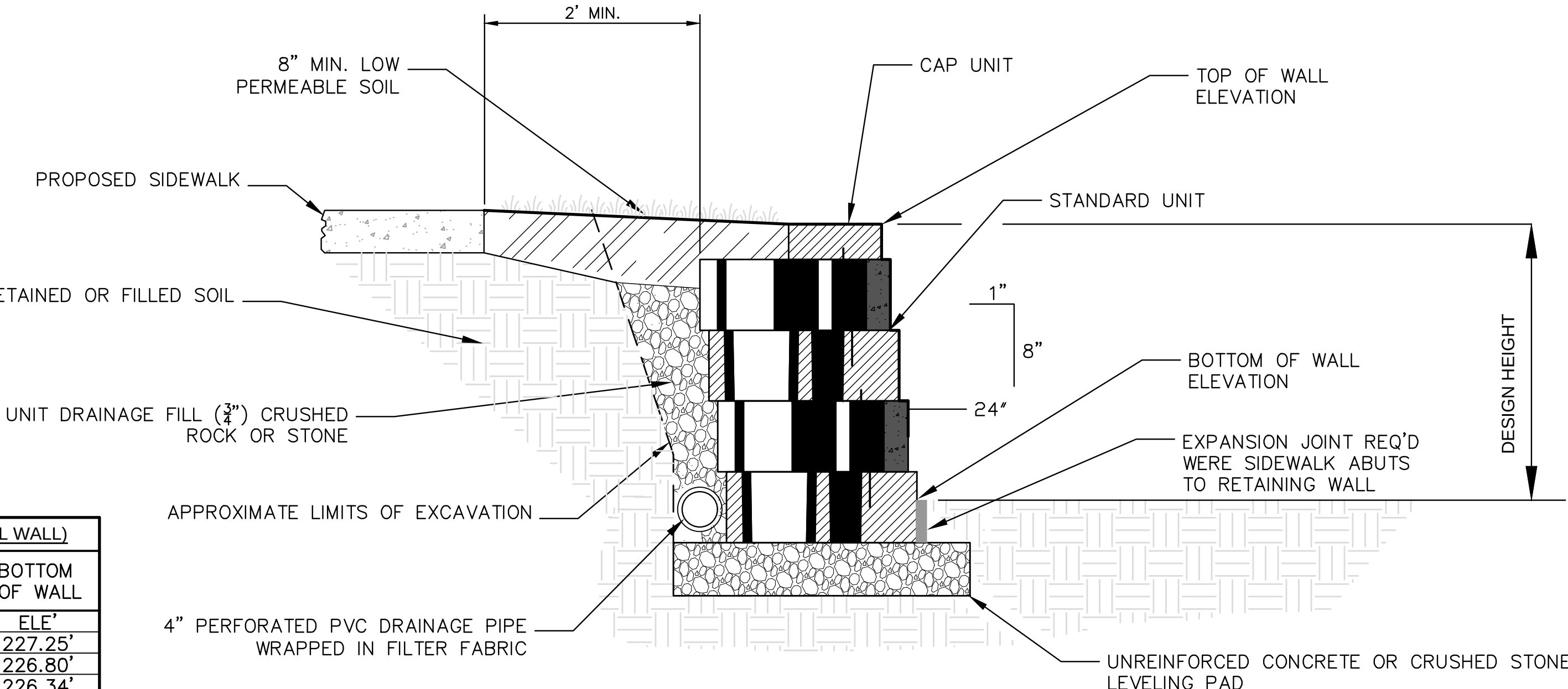
Cap Unit Plan

3-Plane Split
Cap Unit Option

Standard Unit

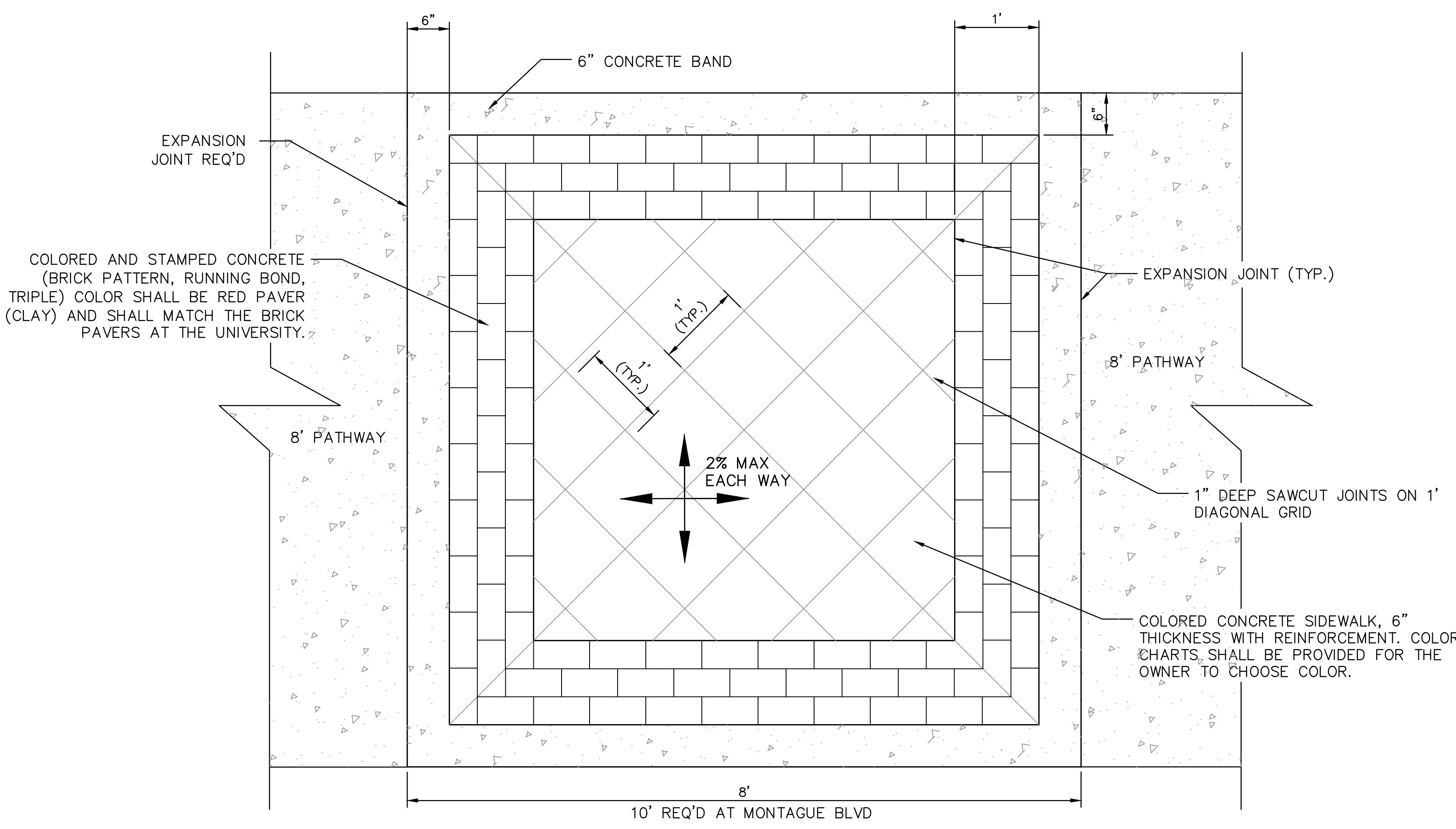
RETAINING WALL #1 (CUT WALL)		
STATION	TOP OF WALL	BOTTOM OF WALL
0+69	230.0'	229.50'
0+79	230.0'	229.04'
0+89	230.0'	228.58'
0+99	230.0'	228.10'
1+09	229.0'	228.00'
1+19	229.0'	228.00'
1+29	229.0'	227.90'
1+31	230.0'	227.80'

RETAINING WALL #2 (FILL WALL)		
STATION	TOP OF WALL	BOTTOM OF WALL
11+34	228.0'	227.25'
11+44	228.0'	226.80'
11+54	228.0'	226.34'
11+64	228.0'	225.94'
11+74	228.0'	225.64'
11+84	228.0'	225.40'
11+94	227.0'	225.21'
12+04	227.0'	225.00'
12+14	227.0'	224.75'
12+24	227.0'	224.55'
12+34	227.0'	224.40'
12+44	227.0'	224.25'
12+54	227.0'	224.13'
12+59	227.0'	224.37'

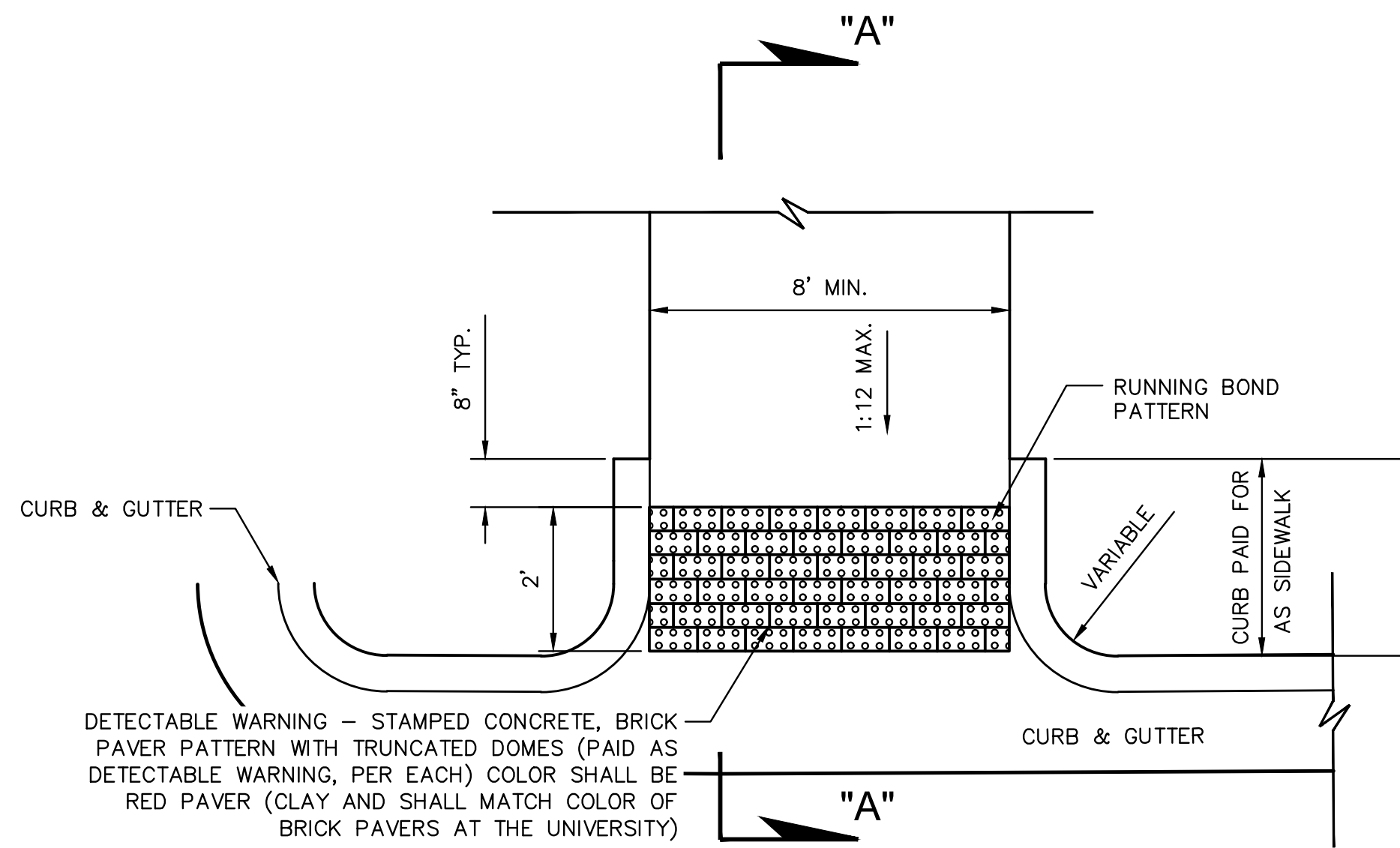


MODULAR RETAINING WALL DETAIL
NOT TO SCALE

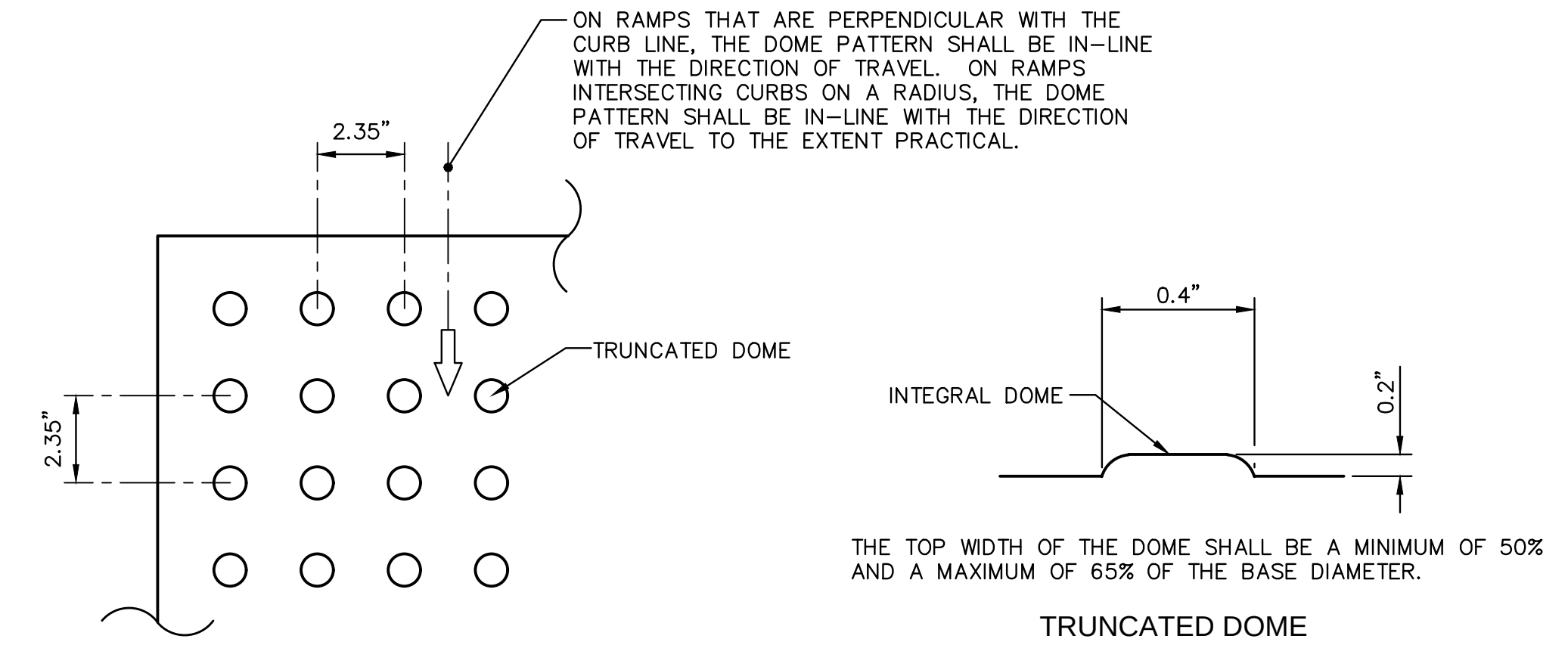
NOTE: PAYMENT BASED ON DESIGN HEIGHT PER SQUARE FOOT AND SHALL INCLUDED BUT NOT LIMITED TO STRUCTURE EXCAVATION, BACKFILL, BEDDING, WALL BLOCKS, CAP BLOCKS, DRAINAGE PIPE, FABRIC, AND ANY LABOR OR MATERIALS USED TO CONSTRUCT THE MODULAR BLOCK RETAINING WALL AS SHOWN IN THE PLANS.



DECORATIVE LANDING DETAIL
NOT TO SCALE



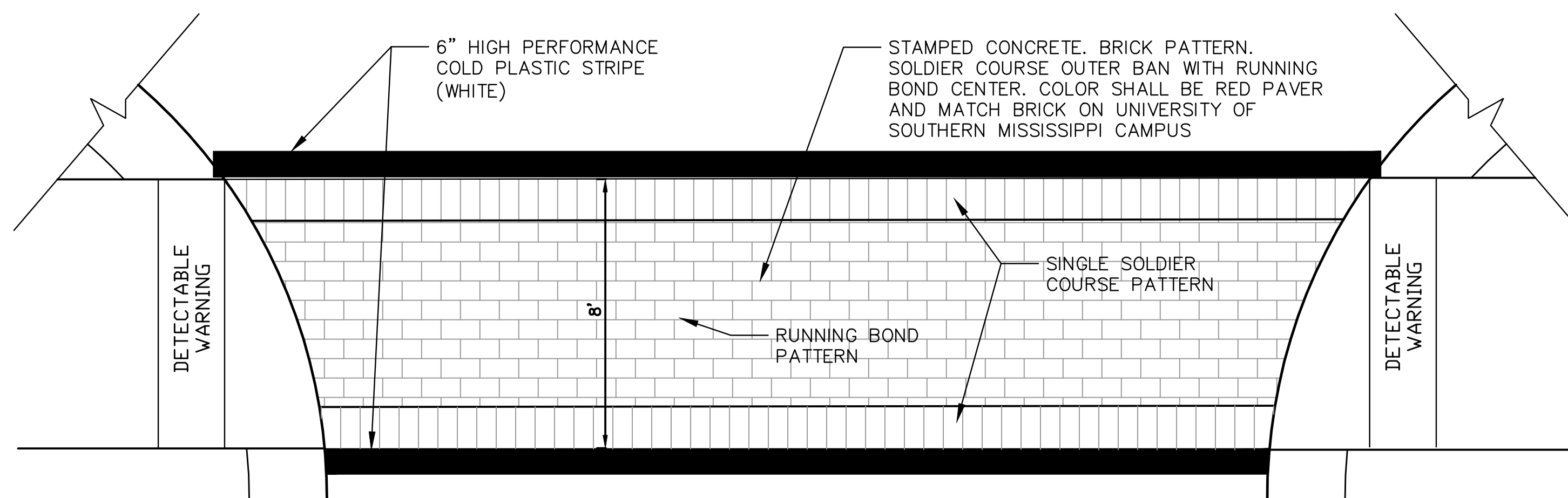
TYPICAL CURB-RETURN HANDICAP RAMP DETAIL
NOT TO SCALE



PLAN VIEW

ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 2 FEET (24 INCHES).

CURB RAMP DETECTABLE WARNING DETAIL
NOT TO SCALE



COMMERCIAL DRIVEWAY DECORATIVE CROSSWALK
NOT TO SCALE

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				QA/QC:	DATE:

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



SITE DETAILS

WORKING NUMBER:	DRAWING NUMBER:
DET-2	25

TRAFFIC SIGNAL GENERAL NOTES

1. POLES, SIGNAL HEADS, EQUIPMENT BOXES, PULLBOXES AND CONDUIT LOCATIONS MAY BE VARIED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, SIGNAL HEAD OR POLE LOCATIONS SHALL BE WITHIN REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND HIGHWAY DESIGN AND OPERATIONAL PRACTICES RELATED TO HIGHWAY SAFETY.
2. THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARMS POLES SHALL BE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. USE FATIGUE CATEGORY II, USE 50 YEAR DESIGN SERVICE LIFE AND DO NOT CONSIDER GALLOPING OR TRUCK-INDUCED GUSTS. WIND AND ICE LOADS VARIABLE BASED UPON MAPS IN THE 2013 AASHTO SPECIFICATION. USE UPSWEPT MAST ARMS UNLESS OTHERWISE NOTED ON PLANS. SEE TSD 3.
3. DETERMINATION OF REQUIRED SIZES, LENGTHS AND GAUGES OF TYPE I - XI STEEL POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SECTION 722.02 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN PLANS OR SPECIFICATIONS.
4. TRAFFIC SIGNAL MAST ARM POLES SHALL BE HOT DIPPED GALVANIZED WITH FINISH APPROVED BY THE ENGINEER.
5. TRAFFIC SIGNAL MAST ARM POLES REQUIRING LUMINAIRES ARE DESIGNATED BY (L). ALL LUMINAIRES SHALL BE LED UNLESS OTHERWISE NOTED ON PLANS.
6. STAINLESS STEEL TAG ATTACHED TO THE POLE SHAFT USING 3/16 INCH STAINLESS STEEL POP RIVETS WITH PROPERTIES AND INFORMATION AS FOLLOWS:
- MINIMUM 1/16 INCH THICKNESS
- MINIMUM 1/4 INCH STAMPED LEGEND WITH FOLLOWING INFORMATION:
-- MANUFACTURER NAME
-- MONTH / YEAR OF MANUFACTURE
-- UNIQUE IDENTIFYING NUMBER FOR FUTURE MANUFACTURER REFERENCE
-- EXTERNAL PROJECT NUMBER FROM THE PLANS COVER SHEET (EXAMPLE: STP-XXXX-XX...)
TAG TO BE INSTALLED ON SHAFT SIDE OPPOSITE THE MAINLINE HIGHWAY AND LOCATED APPROXIMATELY 48 INCHES ABOVE THE TOP OF BASE PLATE.
7. THE TOP OF THE STRAIN POLE FOUNDATION SHALL BE 6" ABOVE THE GROUND. THE CONTRACTOR SHALL PROVIDE POLES OF SUFFICIENT LENGTH PLUS 2 FEET TO PROVIDE REQUIRED VERTICAL CLEARANCE OF THE TRAFFIC SIGNAL HEADS WITHOUT EXTENDING THE FOUNDATION ABOVE THE GROUND LINE OF THE POINT WHERE THE POLE IS LOCATED, EVEN THOUGH THIS MAY BE BELOW THE FINISHED GRADE OF THE ROADWAY.
8. ALL STRAIN POLES AT AN INTERSECTION SHALL BE THE SAME DIAMETER AND UTILIZE THE SAME BOLT CIRCLE SPACING.
9. POLE FOUNDATIONS AND BASE MOUNTED CABINET FOUNDATIONS, GRADE SHALL BE ESTABLISHED TO ±3" OF EDGE OF PAVEMENT ELEVATION UNLESS APPROVED BY SIGNAL PROJECT ENGINEER.
10. TRAFFIC SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON PLANS WITH BLACK BACK PLATES
11. PEDESTRIAN HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON PLANS.
12. PEDESTRIAN PUSHBUTTONS SHALL BE EITHER STANDARD PUSHBUTTONS OR APS (ACCESSIBLE PEDESTRIAN SYSTEM) STYLE AS NOTED ON PLANS. SIGNS TO BE INCLUDED IN PAY ITEM FOR PEDESTRIAN PUSHBUTTONS AT NO ADDITIONAL COST. SIDE OF POLE LOCATIONS OF PUSHBUTTONS MAY BE FIELD ADJUSTED. PUSHBUTTON HARDWARE SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON PLANS.
13. FIELD DRILL AND TAP EXISTING POLES WHERE PEDESTRIAN SIGNALS AND PUSHBUTTONS ARE REQUIRED ON PLANS. (ABSORBED ITEM).

14. TRAFFIC SIGNAL CABINETS AND CONTROLLERS SHALL BE WIRED TO PROVIDE FOR ALL PHASES INCLUDING FUTURE PHASES IN ACCORDANCE WITH THE PHASE SEQUENCE DIAGRAM.
15. ALL TRAFFIC SIGNAL CONTROLLERS SHALL BE THE CURRENT VERSION OF SIEMENS EAGLE TRAFFIC SIGNAL CONTROLLERS WITH SEPAC SOFTWARE, ETHERNET READY, AND COMPATIBLE WITH MDOT'S EXISTING TRAFFIC SIGNAL MANAGEMENT SOFTWARE. ALL TRAFFIC SIGNAL CONTROLLER FIRMWARE SHALL BE CAPABLE OF DELAYING THE ONSET OF THE FLASHING YELLOW ARROW. ALL MMU'S SHALL BE ETHERNET READY, 16 CHANNEL, AND CAPABLE OF RUNNING 12 DIFFERENT MODES OF FLASHING YELLOW ARROW OPERATION. THE CONTRACTOR SHALL COORDINATE WITH MDOT FOR IP ADDRESSES ON ALL NETWORKABLE DEVICES. DEVICES INCLUDE BUT NOT LIMITED TO: CONTROLLER, MMU WITH SDLC CABLE (CONFLICT MONITOR), AND DETECTION UNITS. TRAFFIC SIGNAL CONTROLLER CABINET SHALL HAVE A 16 LOAD BAY FACILITY, REAR ACCESS DOOR, LAPTOP TRAY, AND DUAL POSITION INTERNAL LED LIGHTING. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SHALL HAVE A 5 POSITION CARD RACK AND ONE 175 WATT MINIMUM POWER SUPPLY AND 4 AVAILABLE SLOTS UNLESS OTHERWISE NOTED ON PLANS.
16. FOR PROTECTED/PERMITTED LEFT TURN PHASING USING TYPE 2 FYA TRAFFIC SIGNAL HEADS, OPERATION SHALL BE AS FOLLOWS: THE PROTECTED PHASE OF THIS OPERATION SHALL DISPLAY A SOLID GREEN ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THE PERMITTED PORTION OF THIS OPERATION SHALL START WITH A FLASHING YELLOW ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THERE SHALL BE A DELAY (AS DIRECTED BY THE ENGINEER) BETWEEN THE END OF THE PROTECTED PORTION OF THIS OPERATION AND THE BEGINNING OF THE PERMITTED PORTION OF THIS OPERATION. DURING THIS DELAY, THE OPPOSING PHASE THRU HEADS ARE CAPABLE OF DISPLAYING A GREEN BALL. SIGNAL CONTROLLER WITH FIRMWARE NECESSARY TO ACCOMPLISH THIS DELAY SHALL BE PROVIDED.
17. POLES AND FOUNDATIONS OF EXISTING SIGNAL INSTALLATION REMOVALS SHALL BE CUT OFF 6" BELOW GROUND, REMOVED AND AREA RESTORED TO MATCH ADJACENT SURFACE AS DIRECTED BY THE ENGINEER.
18. ALL REMOVED EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFIC ITEMS ARE NOTED IN THE PLANS TO BE SALVAGED AS DIRECTED BY THE ENGINEER.
19. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ELECTRICAL SERVICE FROM THE POWER COMPANY SERVICE POINT TO THE POWER SERVICE PEDESTIAL. FOR SPAN WIRE INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT AERIAL TO THE SIGNAL POLE NEAREST THE CONTROLLER, THE SERVICE SHALL THEN RUN TO THE CONTROLLER AS SHOWN ON THE PLANS. FOR MAST ARM INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT UNDERGROUND DIRECTLY TO THE POWER SERVICE PEDESTAL, THEN TO THE CONTROLLER CABINET, AS SHOWN ON THE PLANS.
20. POWER SERVICE METER SHALL NOT BE MOUNTED ON THE CONTROLLER CABINET OR MAST ARM POLE SHAFTS. A SEPARATE POWER SERVICE PEDESTAL FOR MOUNTING THESE ITEMS IS REQUIRED. (SEE TSD-6 & TSD12).
21. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE THE NECESSARY ARRANGEMENTS WITH THE LOCAL POWER COMPANY TO PROVIDE THE POWER SUPPLY ASSEMBLY FOR ANY NEW INSTALLATION. THE CONTRACTOR SHALL PAY FOR, AT NO COST TO THE DEPARTMENT, ALL DEPOSITS, HOOK-UP CHARGES, OR OTHER SERVICE FEES REQUIRED BY THE POWER COMPANY FOR THE ESTABLISHMENT OF NEW SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF THE MONTHLY SERVICE BILL DURING THE LIFE OF THE PROJECT. THE COST OF ALL SUCH FEES SHALL BE CONSIDERED INCIDENTAL AND ABSORBED WITHIN EXISTING PAY ITEMS. THE DEPARTMENT OR THE LOCAL AGENCY WILL BE RESPONSIBLE FOR PAYMENT OF THE MONTHLY SERVICE BILL FOR THE NEW POWER SERVICE INSTALLATION AFTER PROJECT ACCEPTANCE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SWAP THE ELECTRICAL SERVICE ACCOUNT OVER TO THE DEPARTMENT AFTER PROJECT ACCEPTANCE. WHEN ELECTRIC POWER SERVICE EXISTS AND IS USED FOR THE OPERATION OF AN EXISTING SYSTEM, THE MONTHLY SERVICE FEES SHALL CONTINUE TO BE PAID BY THE DEPARTMENT OR THE LOCAL AGENCY. IF THE EXISTING POWER SERVICE IS INTENDED FOR USE WITH A NEW SIGNAL SYSTEM, THEN ANY SERVICE CHARGE FEES

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIMILARLY, IF AN EXISTING POWER SERVICE IS TO BE DISCONNECTED, ANY SERVICE CHARGE FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF ALL SUCH FEES SHALL BE CONSIDERED INCIDENTAL AND ABSORBED WITHIN EXISTING PAY ITEMS.

22. WHEN CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SIGNALS TO ACCOMMODATE ROADWAY CONSTRUCTION, IT SHALL BE PAID FOR UNDER PAY ITEM 619-H1, TRAFFIC SIGNAL, LUMP SUM, UNLESS OTHERWISE NOTED ON PLANS.
23. VEHICLE LOOP ASSEMBLIES SHALL BE INSTALLED IN THE TOP LAYER OF BINDER OR EXISTING SURFACE BEFORE THE FINAL SURFACE COURSE IS APPLIED (BASED ON 2" FINAL LIFT MAXIMUM).
24. WHEN RADAR, VIDEO , OR MULTI-SENSOR DETECTION IS USED, THE SYSTEM MAY REQUIRE BOTH STOP BAR AND ADVANCE DETECTION. TSI PLANS SHOW A GENERIC LAYOUT FOR DETECTION; DETECTOR MAY BE RELOCATED PER MANUFACTURER'S RECOMMENDATIONS. NO EXTRA PAY FOR MOVING OF DETECTORS. MANUFACTURER TO HAVE FACTORY REP ON SITE DURING INSTALLATIONS UNLESS CERTIFIED BY THE MANUFACTURER. THER SHOULD BE NO EXTRA PAY FOR MOVING OF DETECTORS. DETECTION CABLE WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDUIT, MESSENGER CABLE OR MAST ARM AND VERTICALLY ALONG THE POLE. DETECTION CABLE FOR CAMERAS, THE POWER AND VIDEO CABLE MAY BE IN THE SAME JACKET. ALL DETECTION UNITS SHALL BE NETWORKABLE DEVICES AND BE ON THE MDOT NETWORK IF NOTED ON PLANS.
25. ALL GROUNDING EQUIPMENT SHALL BE COST ABSORBED.
26. MESSENGER CABLE AND OTHER SUPPORTING DEVICES WHERE REQUIRED SHALL BE ABSORBED IN THE PAY ITEMS FOR SIGNAL CABLE.
27. THE CONTRACTOR SHALL STAKE THE LOCATION OF EACH POLE FOUNDATION AND NOTIFY THE PROJECT ENGINEER FOR CONCURRENCE IN THE LOCATION BEFORE PROCEEDING WITH THE PURCHASE OF THE POLE.
28. THE CONTRACTOR SHALL BE REQUIRED TO ADEQUATELY AND COMPLETELY COVER TRAFFIC SIGNAL HEADS DURING TIMES THAT THEY ARE NOT IN OPERATION WITH A DURABLE, OUTDOOR- HARDENED MATERIAL THAT CONTRASTS WITH THE COLOR OF THE HEAD THAT CLEARLY DESIGNATES THAT THE SIGNAL IS NOT IN "STOP AND GO" MODE. HEAD COVERS ARE TO BE APPROVED BY THE ENGINEER.
29. A NEW TRAFFIC SIGNAL INSTALLATION SHALL BE PUT IN FLASH OPERATION FOR A PERIOD OF THREE (3) TO SEVEN (7) DAYS PRIOR TO THE ACTIVATION OF THE SIGNAL'S "STOP AND GO" OPERATION. ACTIVATION OF NEW TRAFFIC SIGNALS SHALL BE DURING A MID-WEEK WEEKDAY (TUESDAY – THURSDAY) DURING A NON-PEAK TIME AND SHALL BE COORDINATED WITH THE ENGINEER. UPON INITIAL INSPECTION AND ACCEPTANCE TESTING OF THE NEW TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL REQUEST THE START OF THE 30 DAY BURN-IN PERIOD TO COMMENCE, AS OUTLINED IN SUBSECTION 631.03.4 OF THIS SPECIFICATION. ANY NOTED DEFICIENCIES FOUND WITHIN THAT 30 DAY PERIOD SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER. THE 30 DAY BURN-IN PERIOD MUST COMMENCE WITHIN THE CONTRACT TIME, AND BEFORE SUBSTANTIAL COMPLETION OF THE PROJECT IS GRANTED.
30. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING FINAL INSPECTION MEETING WITH DISTRICT OFFICE, PROJECT OFFICE AND TRAFFIC ENGINEERING FOR SIGNAL PORTION OF THE PROJECT.

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33					WORKING NUMBER: TSD-1				
					FILENAME: TSD.dwg									
					SCALE:									
					SURVEYED BY: CLEARPOINT ENGINEERS									
					DSGN: MWE	DATE: 01/2019								
					DRWN: WTA	DATE: 01/2019				CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY			DRAWING NUMBER: 26	
					CHKD:	DATE:								
					QA/QC:	DATE:								

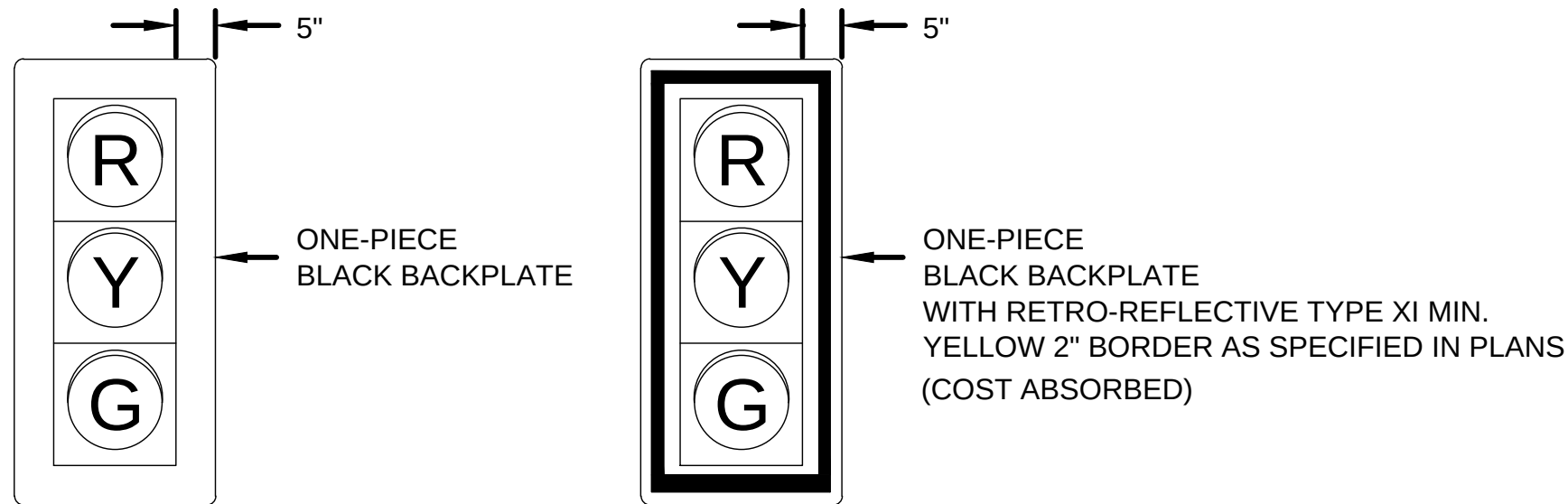
DETAIL OF TYPICAL TRAFFIC SIGNAL HEADS

TYPE 1	TYPE 2	TYPE 2A FYA	TYPE 2B FYA	TYPE 3	TYPE 4	TYPE 6	TYPE 7	TYPE H

NOTES:

- ALL SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL SIGNAL HEADS SHALL BE L.E.D. LENSES UNLESS OTHERWISE NOTED ON THE PLANS. TYPE "A" SIGNAL HEAD IS TO BE GEOMETRICALLY PROGRAMMED VIA LOUVERS.
- LETTER "R" ON HEAD TYPES MEANS RIGHT TURN ARROW(S).
- TYPE 6 SIGNAL HEAD SYMBOLS/NUMBERS SHALL BE FULLY ILLUMINATED (NO OUTLINE SYMBOLS ALLOWED). THERE IS A SEPARATE PAY ITEM FOR PEDESTRIAN PUSHBUTTON. PEDESTRIAN PUSHBUTTON SHALL BE FURNISHED WITH R10-3e SIGN. (COST ABSORBED).
- ALL FYA SIGNAL HEAD SHALL BE FURNISHED WITH R10-12M SIGN. WHEN NOTED ON PLANS, TYPE 4 & 5 SIGNAL HEADS SHALL BE FURNISHED WITH R10-10L, R10-10R, OR R10-17M SIGN. TYPE 7 SIGNAL HEAD SHALL BE FURNISHED WITH R10-12 SIGN. TYPE 7 R REQUIRES NO SIGN. TYPE H SIGNAL HEAD SHALL BE FURNISHED WITH R10-23 SIGN WHEN INDICATED ON PLANS. COST OF SIGNAL SIGNS, MOUNTING BRACKETS, HARDWARE, AND LABOR SHALL BE COST ABSORBED.
- FOR SPAN WIRE INSTALLATION, THE HOUSING FOR THE RED INDICATION OF A TYPE 7 HEAD, SHALL BE ALUMINUM.

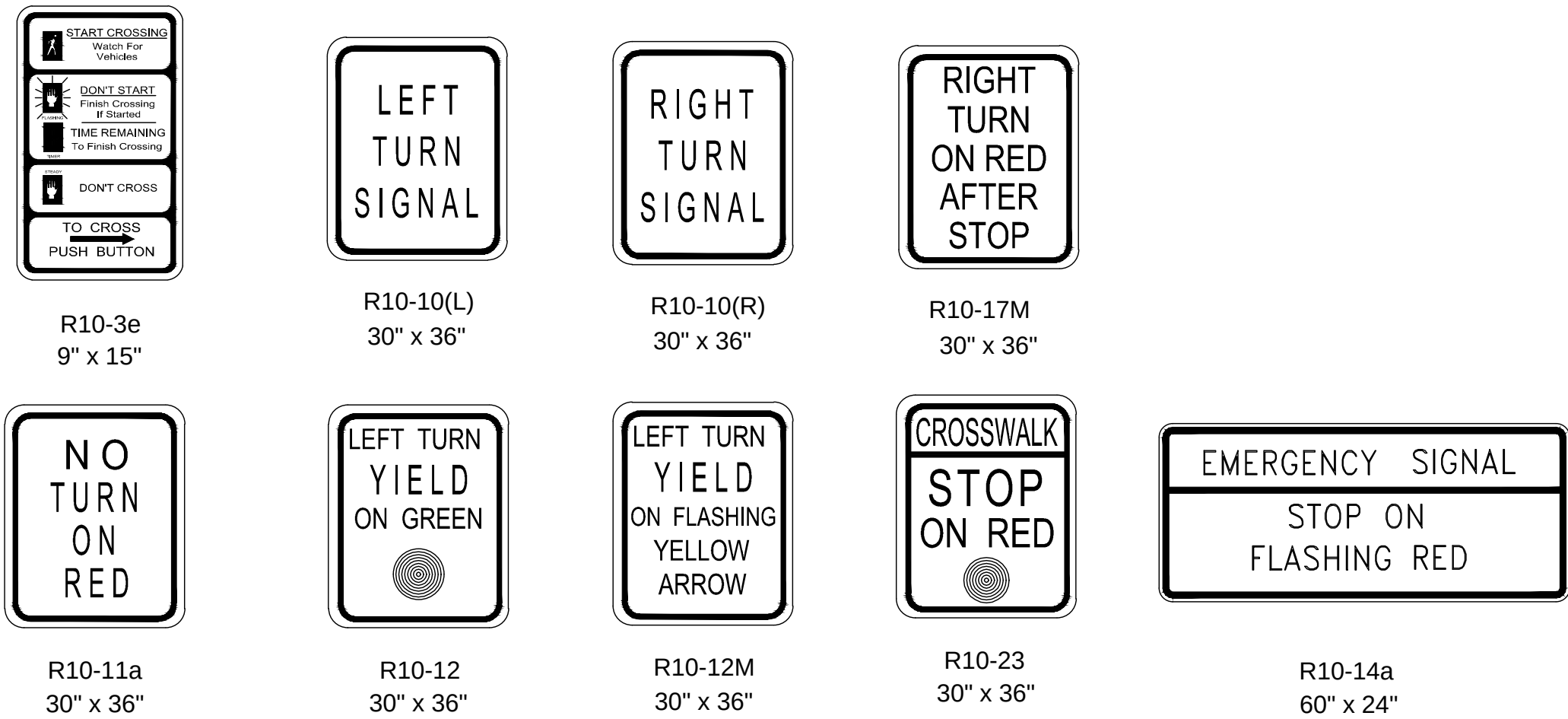
DETAIL OF TRAFFIC SIGNAL WITH BACKPLATE



NOTE:

ALL SIGNAL HEADS SHALL INCLUDE BACKPLATES AND VISORS UNLESS OTHERWISE NOTED ON TRAFFIC SIGNAL INSTALLATION SHEETS.

DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



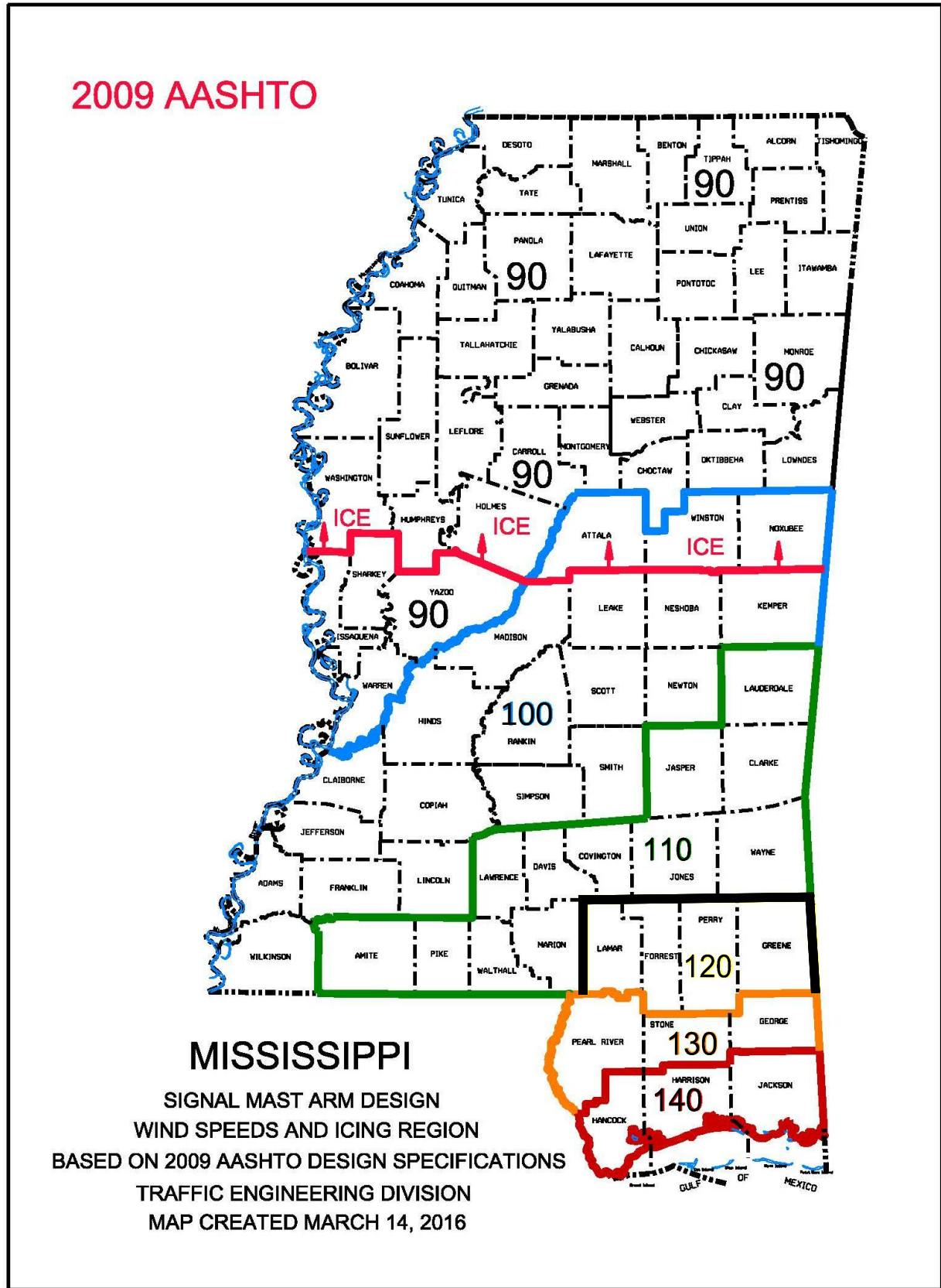
NOTES:

- ALUMINUM SIGN BLANKS ARE TO BE ALUMINUM ALLOY 5052-H38 AND 0.10" THICK.
- THE SIGNS SHALL BE SUPPLIED WITH MOUNTING BRACKETS AND HARDWARE AS REQUIRED.
- NUMBER 12 PLATED JACK CHAINS SHALL BE ATTACHED TO THE BOTTOM OF ALL SPAN WIRE MOUNTED SIGNS.
- CHAINS SHALL BE ATTACHED TO SIGN AND TETHER USING "S" HOOKS.
- THE SIZE OF THE SIGN BLANK, LEGEND, BORDER AND THE COLOR OF THE BACKGROUND AND LEGEND IS TO CONFORM TO THE M.U.T.C.D. (LATEST EDITION).
- REFLECTIVE SHEETING FOR TRAFFIC SIGNS SHALL BE TYPE XI PRISMATIC RETROREFLECTIVE SHEETING.

SIGNAL PLAN LEGEND

	SIGNAL HEAD REQUIRED / TYPE
	PEDESTRAIN HEAD REQUIRED
	EXISTING SIGNAL HEAD
	SIGN
	VEHICLE LOOP DETECTOR
	QUADRAPOLE VEHICLE LOOP DETECTOR
	VEHICLE LOOP DETECTOR NUMBER
	WIRELESS MAGNETOMETER SENSOR
	BASE MOUNTED CABINET FOR SIGNAL CONTROLLER
	POLE MOUNTED CABINET FOR SIGNAL CONTROLLER
	EXISTING POLE
	POLE REQUIRED
	NEW PEDESTAL POLE
	MAST ARM POLE REQUIRED
	EXISTING PULLBOX
	PULLBOX REQUIRED (TYPE SPECIFIED ON PLAN SHEETS)
	RADAR DETECTOR (RD)
	VIDEO DETECTOR (VD)
	MULTI SENSOR DETECTOR (MS)
	OPTICAL DETECTOR UNIT
	CONDUIT
	ROLL PIPE
	LUMINAIRE
	DECORATIVE LUMINAIRE
	GROUND MOUNTED PEDESTAL SERVICE PANEL
	RADIO INTERCONNECT ANTENNA
	TWO-WAY WIRELESS ANTENNA
	WIRELESS REPEATER
	PTZ / FIXED CAMERA
	P.B. PUSH BUTTON
	S.C. SHIELDED CABLE
	POW POWER CABLE
	LUM LUMINAIRE POWER CABLE
	ODC OPTICAL DETECTOR CABLE
	8c NUMBER OF CONDUCTORS
	I.C. INTERCONNECT CABLE
	RAD RADIO COMMUNICATIONS CABLE
	FO FIBER OPTIC CABLE (72 SM)
	FO DROP FIBER DROP CABLE (12 SM)
	DC DETECTION CABLE
	STOP BAR DETECTION ZONE
	ADVANCED DETECTION ZONE

WIND SPEEDS AND ICING REGION MAP



2009/2013 AASHTO WIND LOAD LIST BY COUNTY

COUNTY	BASIC WIND SPEED MPH	ICE LOADING REQD
Adams	100	NO
Alcorn	90	YES
Amite	110	NO
Attala	100	YES
Benton	90	YES
Bolivar	90	YES
Calhoun	90	YES
Carroll	90	YES
Chickasaw	90	YES
Choctaw	90	YES
Claiborne	100	NO
Clarke	110	NO
Clay	90	YES
Coahoma	90	YES
Copiah	90	NO
Covington	110	NO
DeSoto	90	YES
Forrest	120	NO
Franklin	100	NO
George	130	NO
Greene	120	NO
Grenada	90	YES
Hancock	140	NO
Harrison	140	NO
Hinds	100	NO
Holmes	90	YES
Humphreys	90	YES
Issaquena	90	NO
Itawamba	90	YES
Jackson	140	NO
Jasper	110	NO
Jefferson	100	NO

COUNTY	BASIC WIND SPEED MPH	ICE LOADING REQD
Jefferson Davis	110	NO
Jones	110	NO
Kemper	100	NO
Lafayette	90	YES
Lamar	120	NO
Lauderdale	110	NO
Lawrence	110	NO
Leake	100	NO
Lee	90	YES
Leflore	90	YES
Lincoln	100	NO
Lowndes	90	YES
Madison	100	NO
Marion	110	NO
Marshall	90	YES
Monroe	90	YES
Montgomery	90	YES
Neshoba	100	NO
Newton	100	NO
Noxubee	100	YES
Oktibbeha	90	YES
Panola	90	YES
Pearl River	130	NO
Perry	120	NO
Pike	110	NO
Pontotoc	90	YES
Prentiss	90	YES
Quitman	90	YES
Rankin	100	NO
Scott	100	NO
Sharkey	90	NO
Simpson	100	NO
Smith	100	NO
Stone	130	NO
Sunflower	90	YES
Tallahatchie	90	YES
Tate	90	YES
Tippah	90	YES
Tishomingo	90	YES
Tunica	90	YES
Union	90	YES
Walthall	110	NO
Warren	90	NO
Washington	90	YES
Wayne	110	NO
Webster	90	YES
Wilkinson	100	NO
Winston	100	YES
Yalobusha	90	YES
Yazoo	90	NO

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REVISIONS

NO.	DATE	BY	DESCRIPTION

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38TH AVENUE PATHWAY

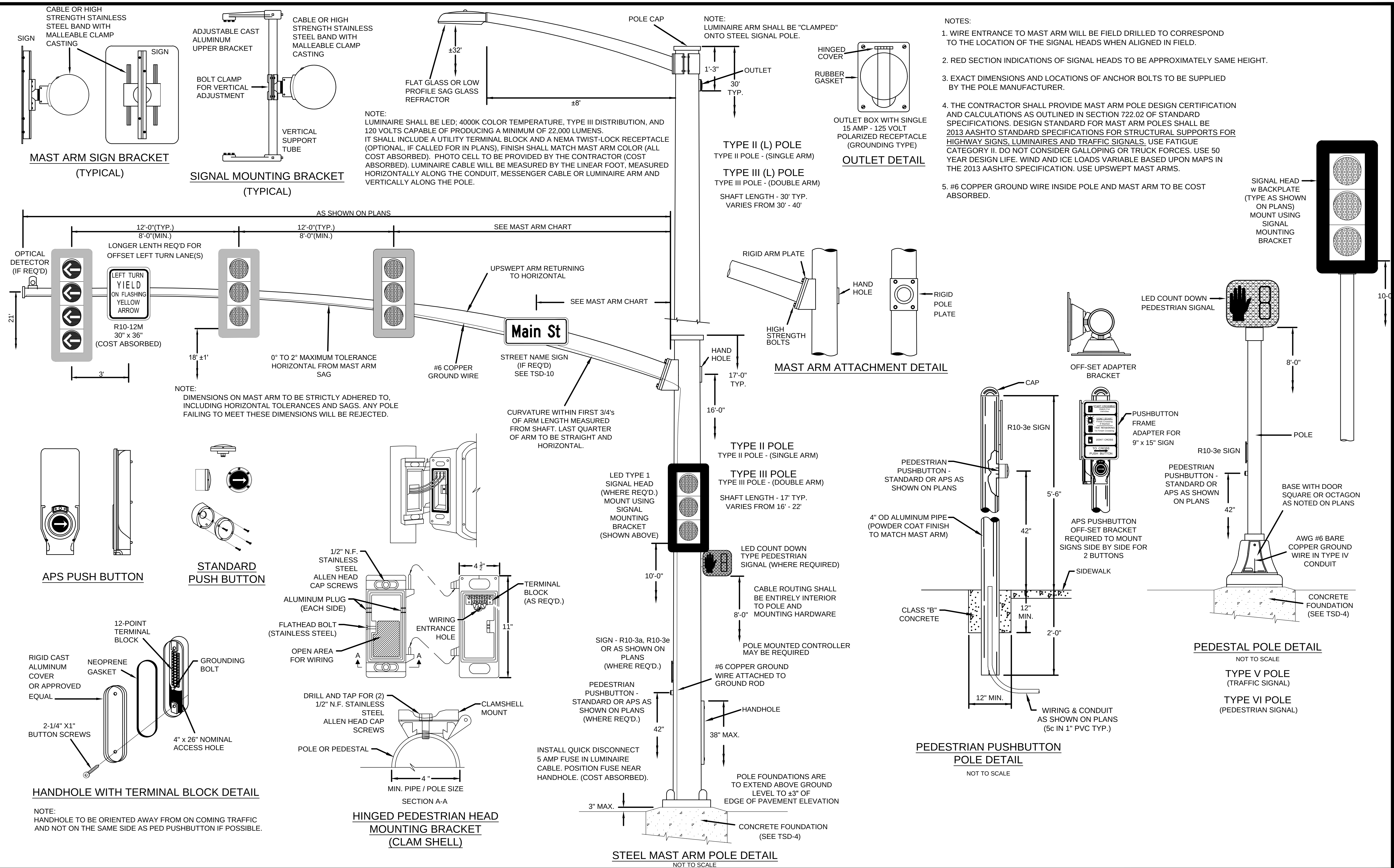
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TRAFFIC SIGNAL STANDARDS

WORKING NUMBER:
TSD-2

DRAWING NUMBER:
27



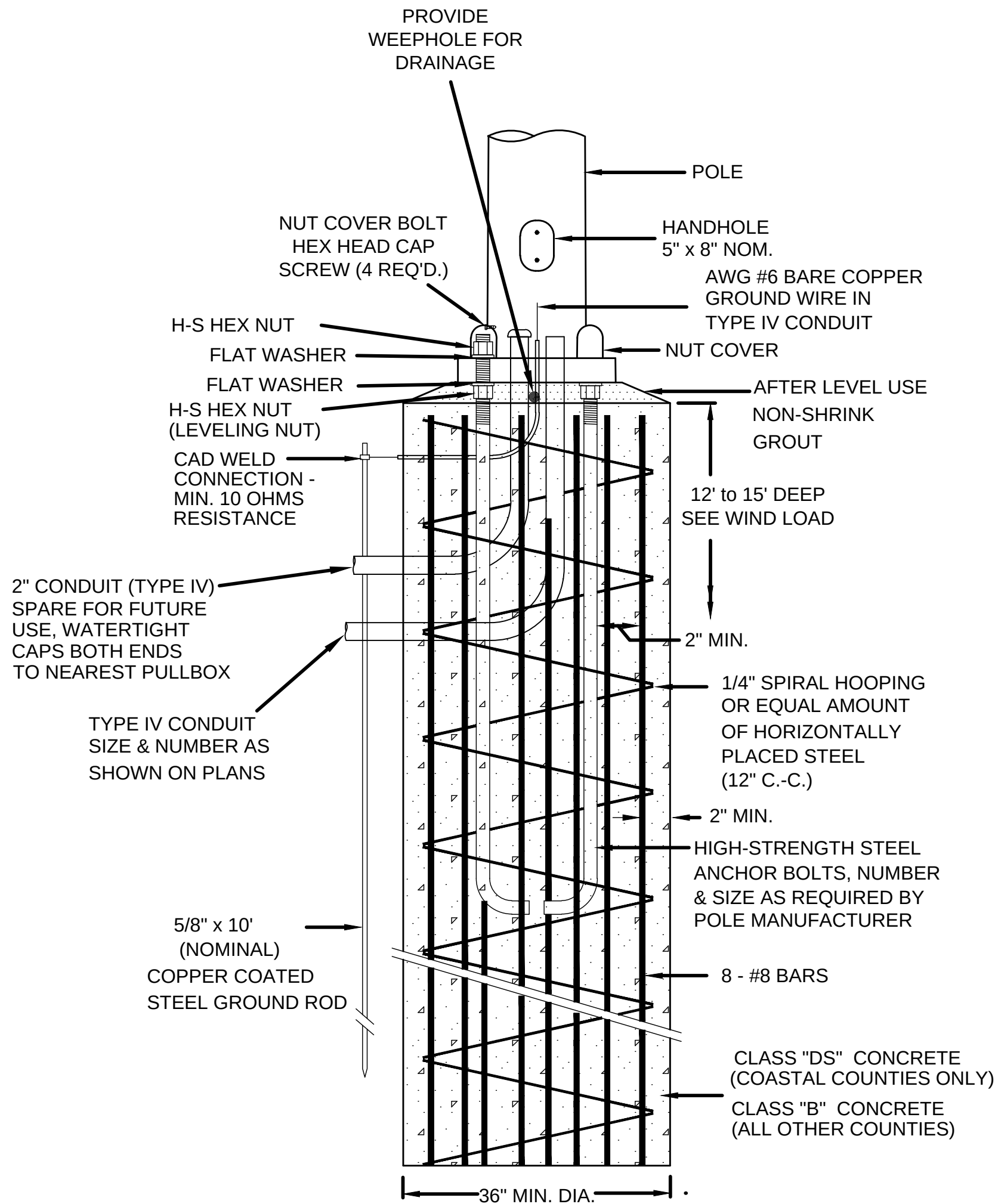
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				QA /QC:	DATE:

38TH AVENUE PATHWAY

TRAFFIC SIGNAL STANDARDS





TYPE I POLE FOUNDATION DETAIL

NOT TO SCALE

WIND SPEED DETERMINES SHAFT DIAMETER AND DEPTH:

FOUNDATION CHART

WIND SPEED	POLE TYPE	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 MPH	I	36"	12'	B	NO
100 - 130 MPH	I	36"	15'	B	NO
140 MPH	I	36"	15'	DS	YES

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.

FOUNDATION GENERAL NOTES

1. THE CONTRACTOR SHALL STAKE THE LOCATION OF EACH POLE FOUNDATION AND NOTIFY THE PROJECT ENGINEER FOR CONCURRENCE IN THE LOCATION BEFORE PROCEEDING WITH THE PURCHASE OF THE POLE.

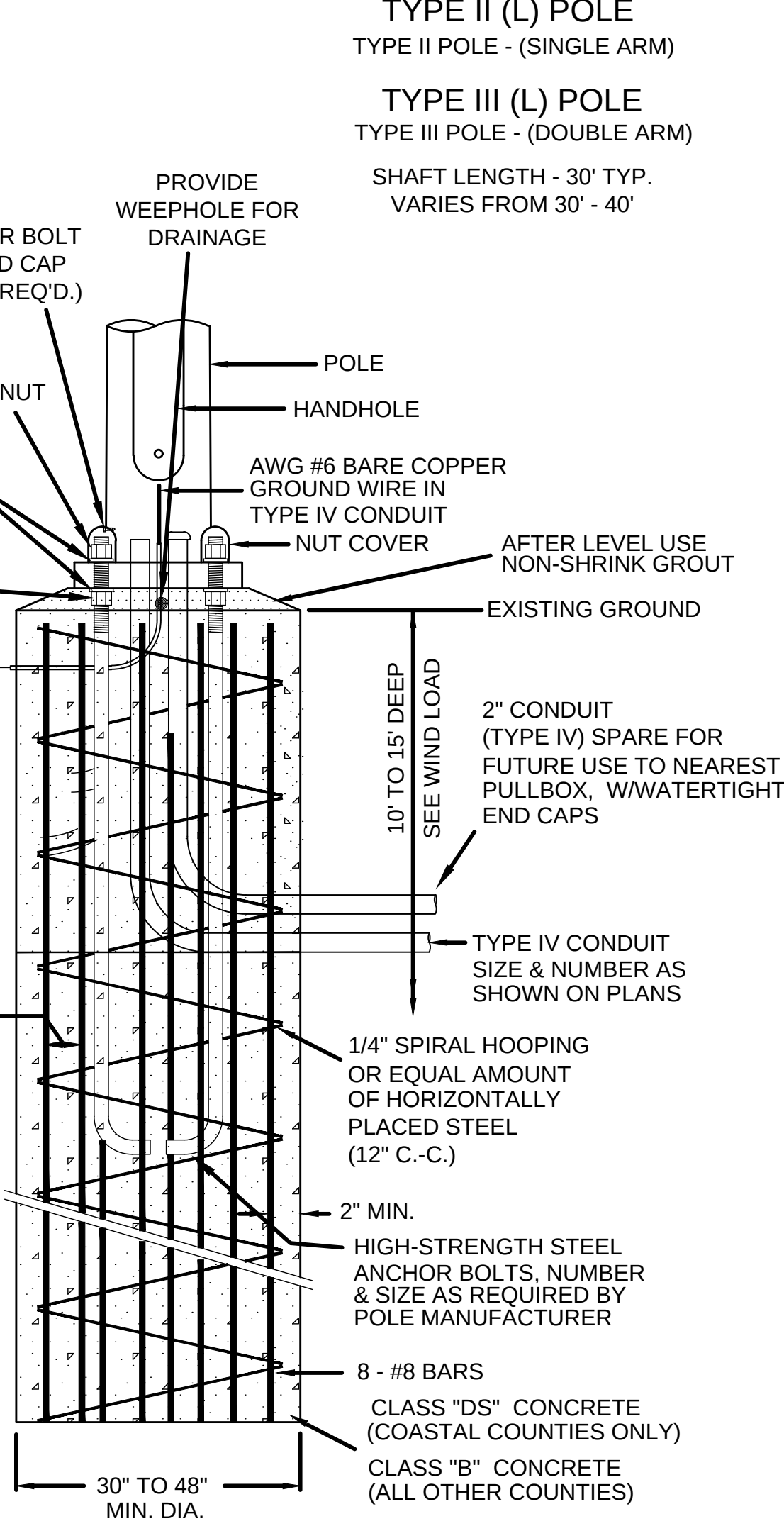
2. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE MANUFACTURER. ANY FOUNDATIONS FAILING TO MEET MINIMUM DIMENSIONS WILL BE REJECTED.

3. DRY SHAFT EXCAVATION MUST MEET REQUIREMENTS OF SECTION 803.03.2.3.2. IF GROUNDWATER OR HOLE INSTABILITY IS ENCOUNTERED, SLIP CASING AND 10' TREMIE SHALL BE REQUIRED.

4. GROUND RODS TO BE DRIVEN UNTIL AT LEAST 12" BELOW FINISHED GROUND. SEE TRAFFIC SIGNAL GROUNDING DETAILS (TSD-8) FOR ADDITIONAL INFORMATION.

5. POLE FOUNDATIONS OF THE SIZE SPECIFIED WILL BE MEASURED BY THE CUBIC YARD, WHICH MEASUREMENT SHALL BE THE AREA BOUNDED BY THE VERTICAL PLANES OF THE NEAT LINES OF THE FOUNDATION. FIELD CONDITIONS MAY REQUIRE TALLER FOUNDATIONS THAN SPECIFIED IN THE PLANS IN WHICH THE CONTRACTOR SHALL BE PAID FOR ADDITIONAL CONCRETE PER CUBIC YARD AS BID IN THE POLE FOUNDATIONS PAY ITEM.

6. THE FINISHED TOP SURFACE OF EACH FOUNDATION SHALL BE ±3 INCHES FROM THE PAVEMENT EDGE ELEVATION AT THE FOUNDATION LOCATION. WHERE FOUNDATIONS ARE CONSTRUCTED IN AREAS WHERE THE PAVEMENT EDGE ELEVATION AND SHOULDER EDGE ELEVATION DIFFER MORE THAN TWELVE (12) INCHES, TALLER FOUNDATIONS MAY BE USED BUT MUST BE APPROVED BY THE ENGINEER. TALLER POLES SHOULD BE EVALUATED TO MINIMIZE EXPOSED FOUNDATION.



STEEL MAST ARM POLE FOUNDATION DETAIL

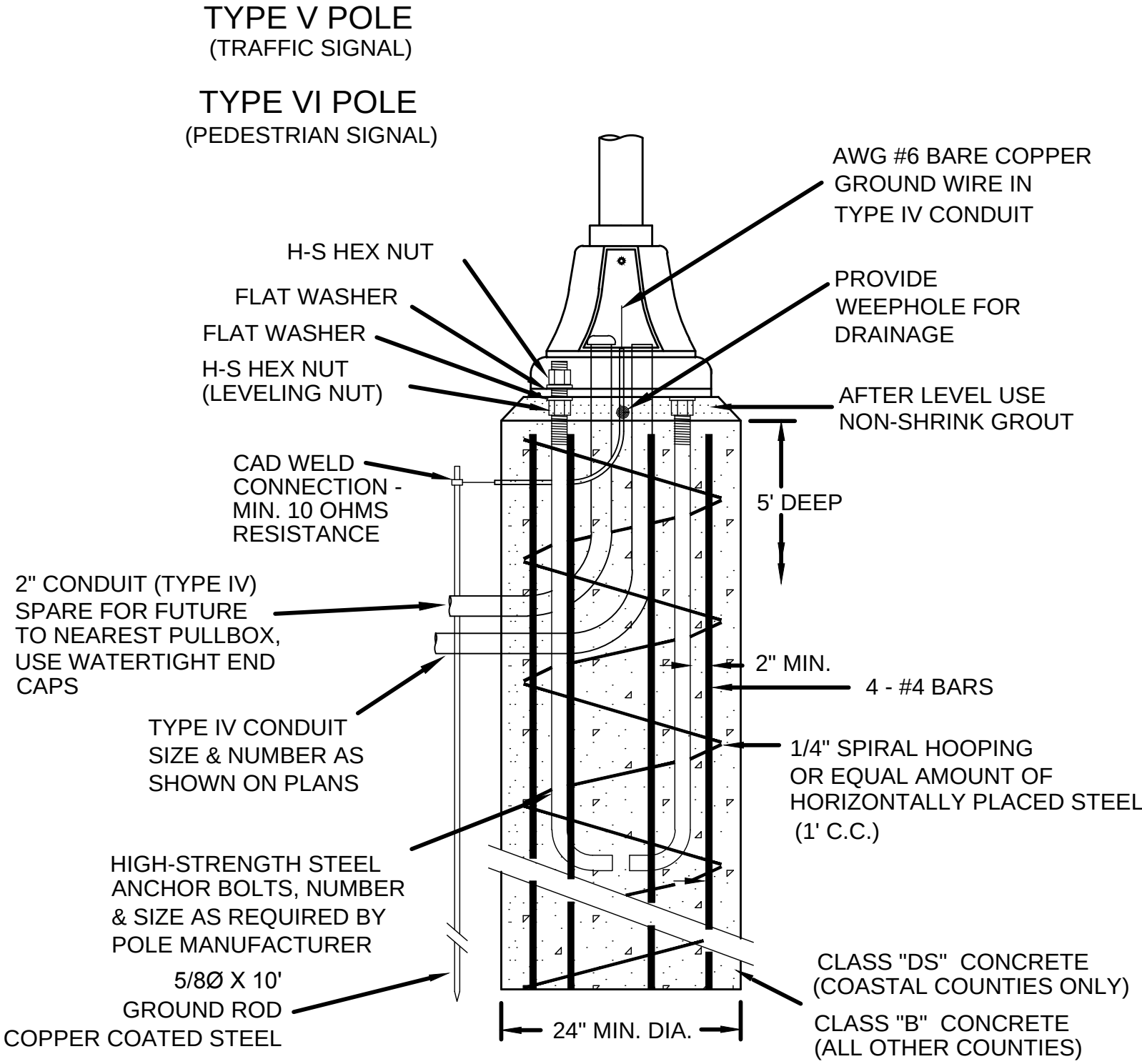
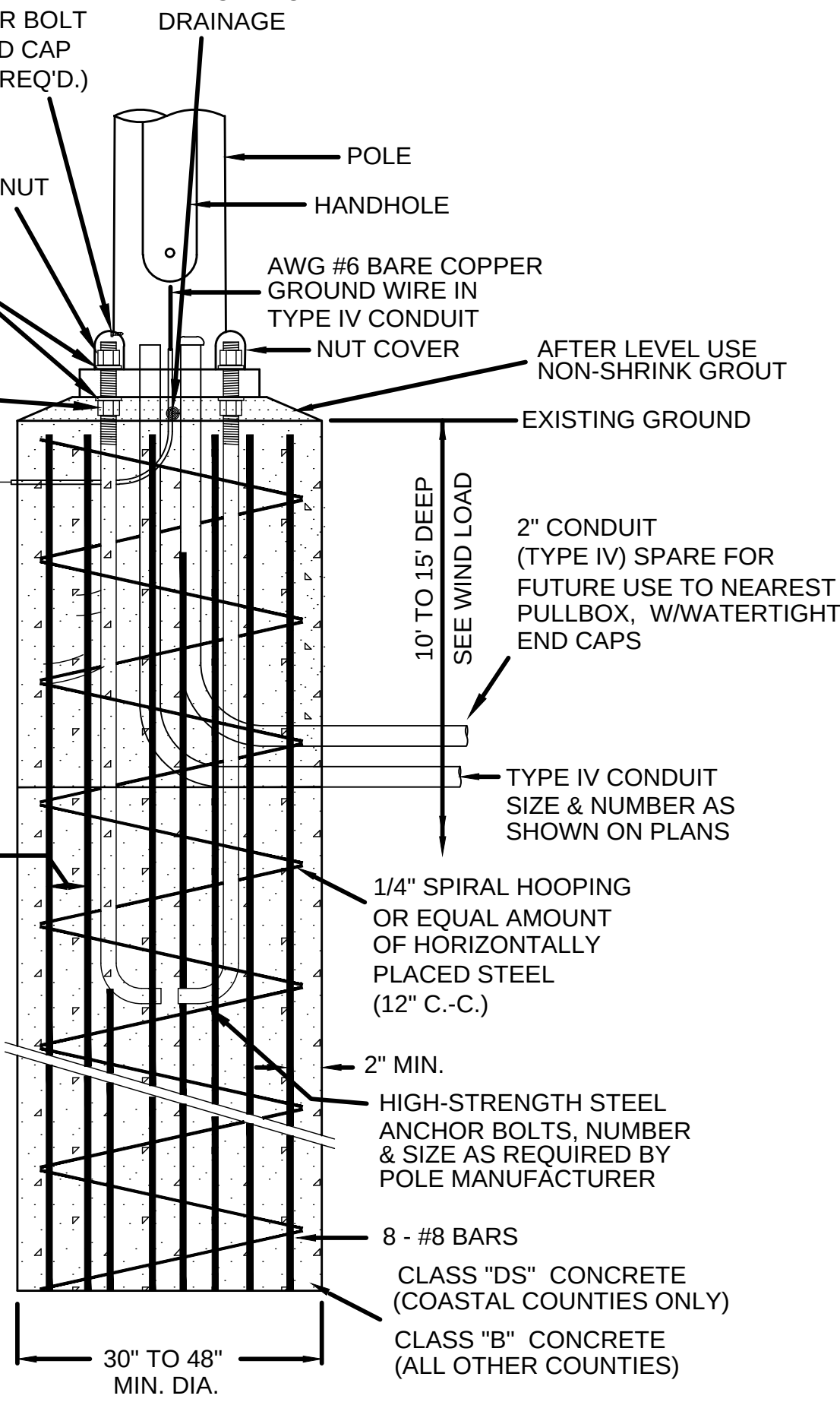
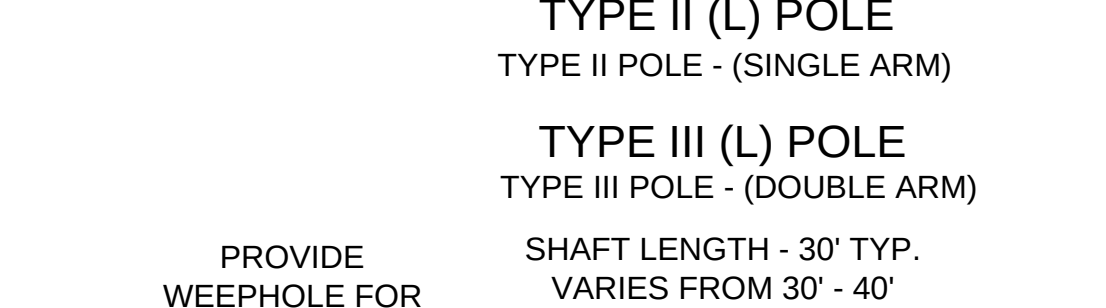
NOT TO SCALE

WIND SPEED DETERMINES SHAFT DIAMETER AND DEPTH:

FOUNDATION CHART

WIND SPEED	POLE TYPE	ARM LENGTH	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 MPH	II, II (L)	5' - 45'	30"	10'	B	NO
90 MPH	II, II (L)	50' - 80'	36"	12'	B	NO
90 MPH	III, III (L)	5' - 80'	36"	15'	B	NO
90 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	B	NO
100 - 130 MPH	II, II (L), III, III (L)	5' - 80'	36"	15'	B	NO
100 - 130 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	B	NO
140 MPH	II, II (L), III, III (L)	5' - 80'	36"	15'	DS	YES
140 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	DS	YES

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.



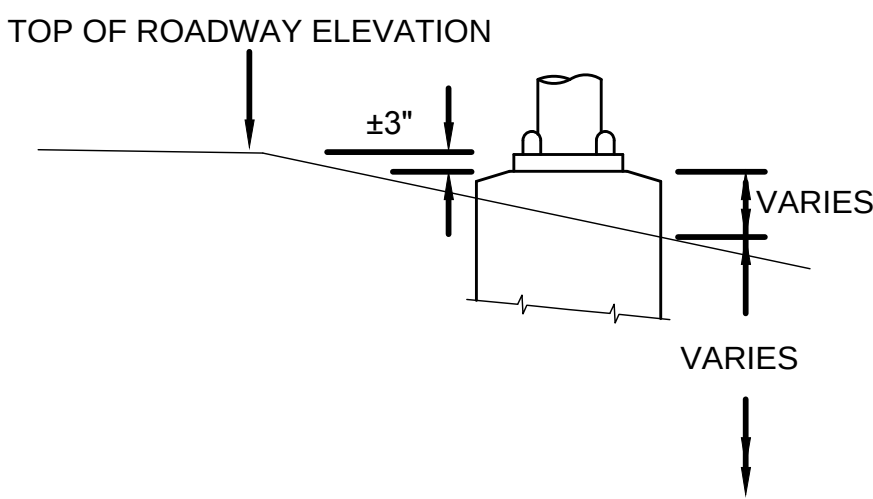
PEDESTAL POLE FOUNDATION DETAIL

NOT TO SCALE

FOUNDATION CHART

WIND SPEED	POLE TYPE	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 -130 MPH	V, VI	24"	5'	B	NO
140 MPH	V, VI	24"	5'	DS	NO

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.



LOW SHOULDER FOUNDATION DETAIL

NOT TO SCALE

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TRAFFIC SIGNAL STANDARDS

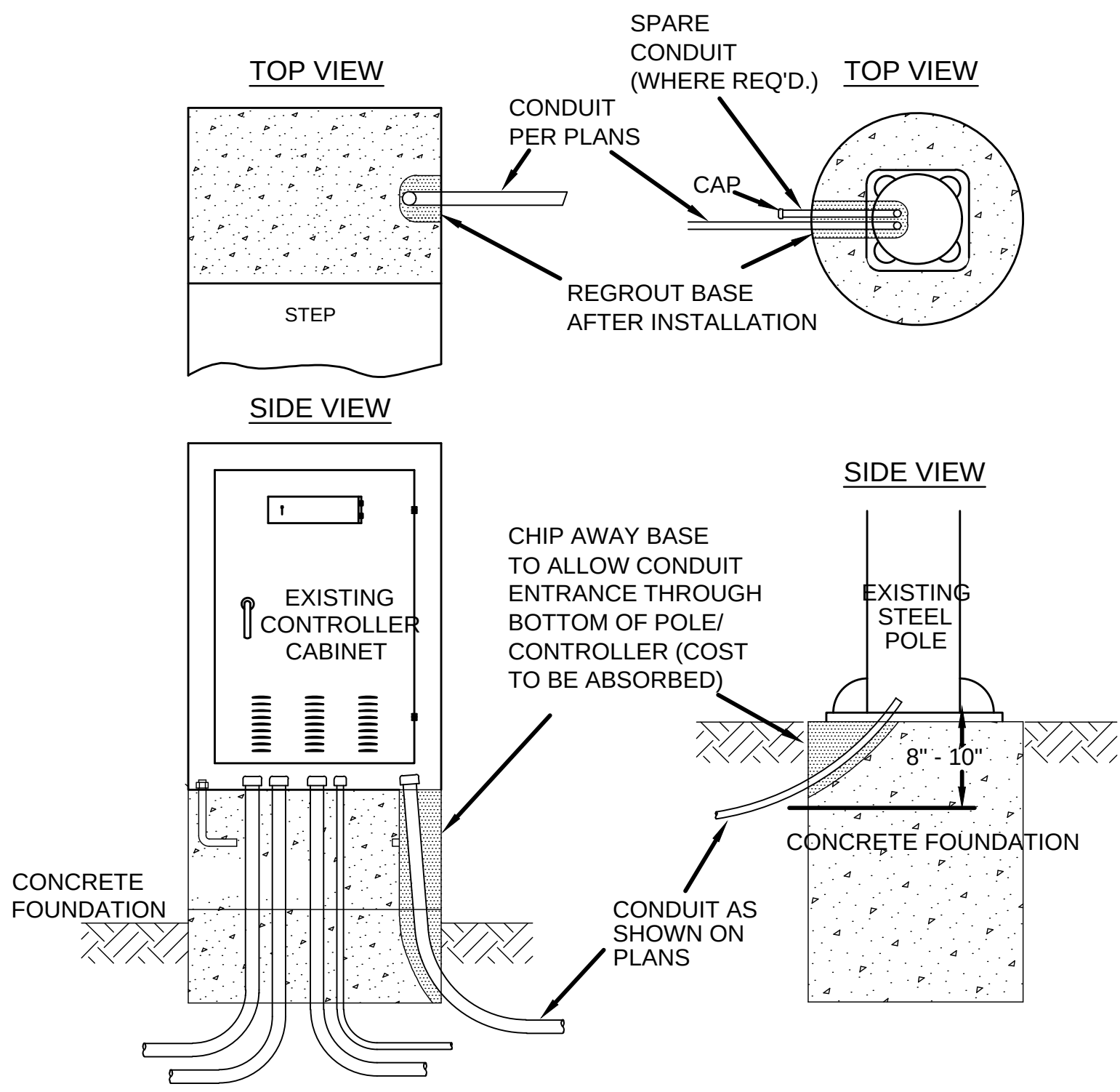
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TSD-4

DRAWING NUMBER:
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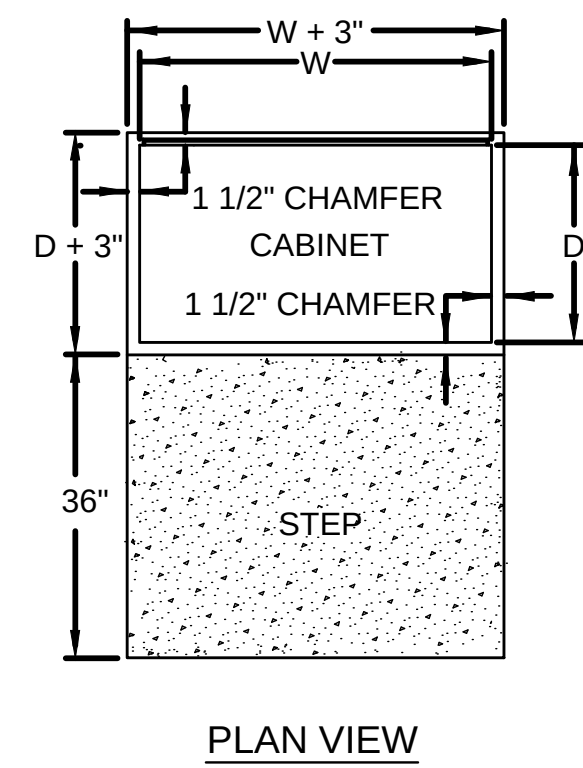
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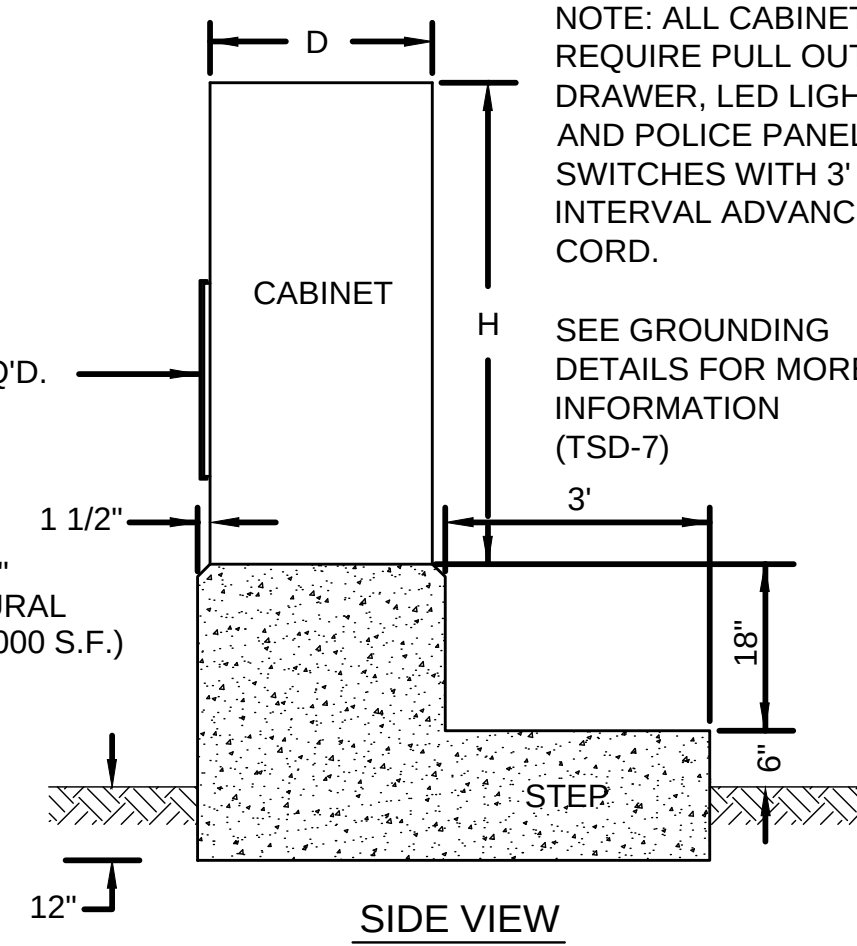
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CONDUIT ENTRANCE DETAIL
(EXISTING CABINET OR POLE)



PLAN VIEW

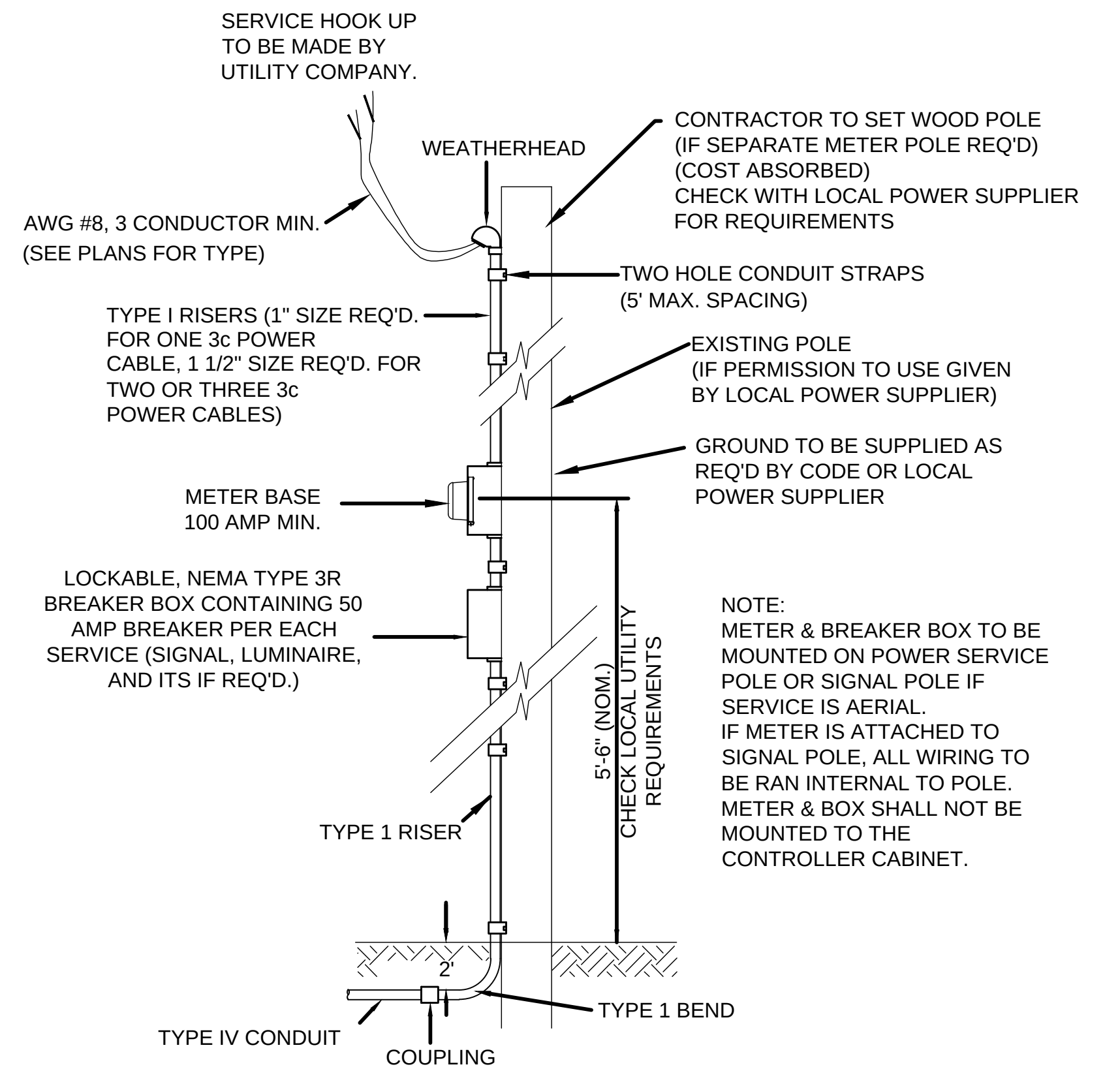


NOTE: THE BASE MOUNTED CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE ON STREET SIGNAL DISPLAYS SIMULTANEOUSLY. THIS POSITION IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

CABINET INFORMATION

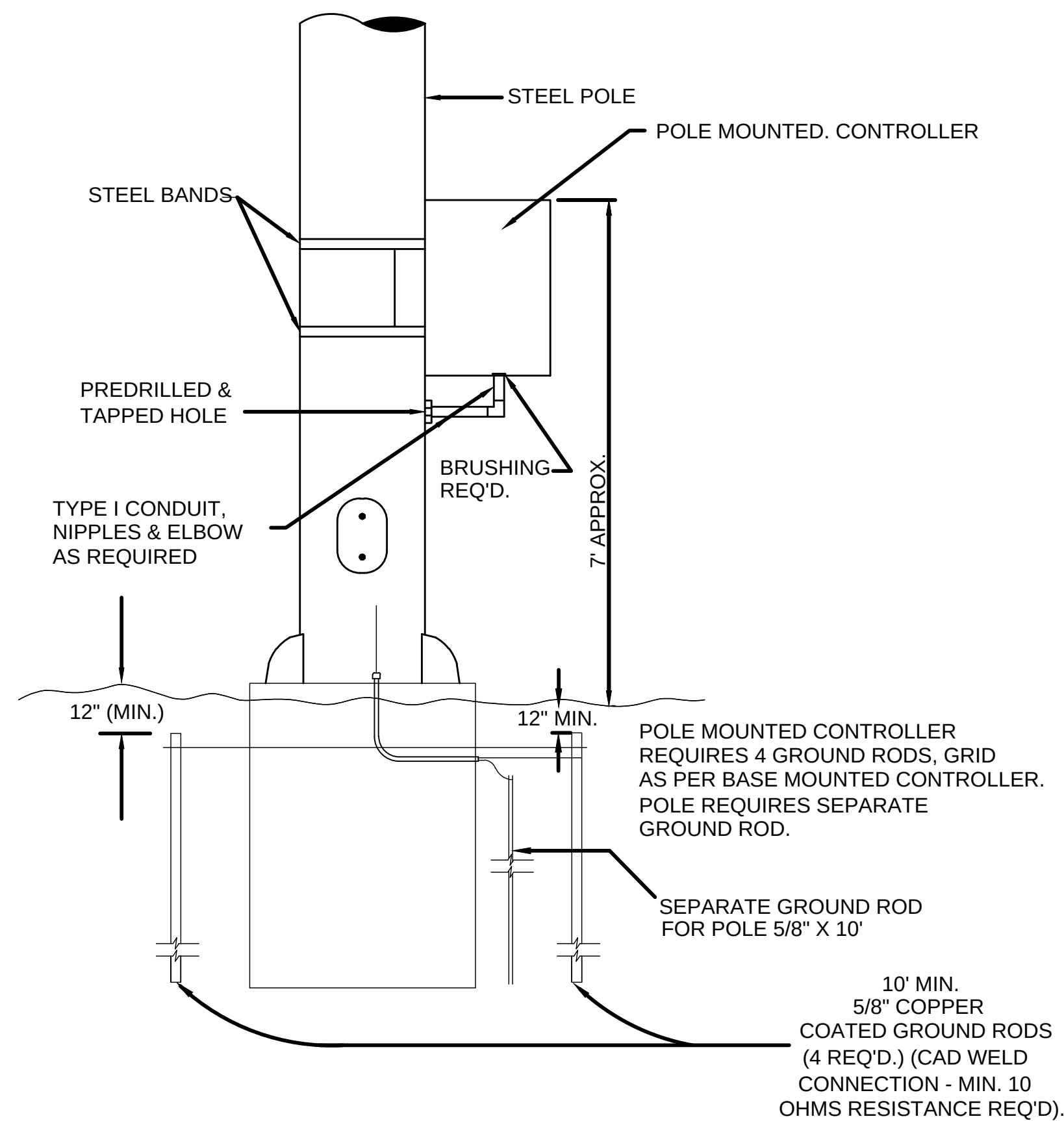
TYPE	SIZE (MIN.)	LOAD BAY
TYPE I CABINET	51"H x 30"W x 18"D	8 POSITION
TYPE II CABINET	51"H x 36"W x 18"D	12 POSITION
TYPE III CABINET	56"H x 44"W x 27"D	16 POSITION
TYPE IV CABINET	56"H x 57"W x 29"D	16 POSITION
TYPE V CABINET	77"H x 44"W x 27"D	16 POSITION

TYPE I AND II MAY BE POLE OR BASE MOUNTED, ALL OTHERS ARE BASE MOUNT. CONTRACTOR TO VERIFY CABINET SIZE BEFORE POURING FOUNDATION.



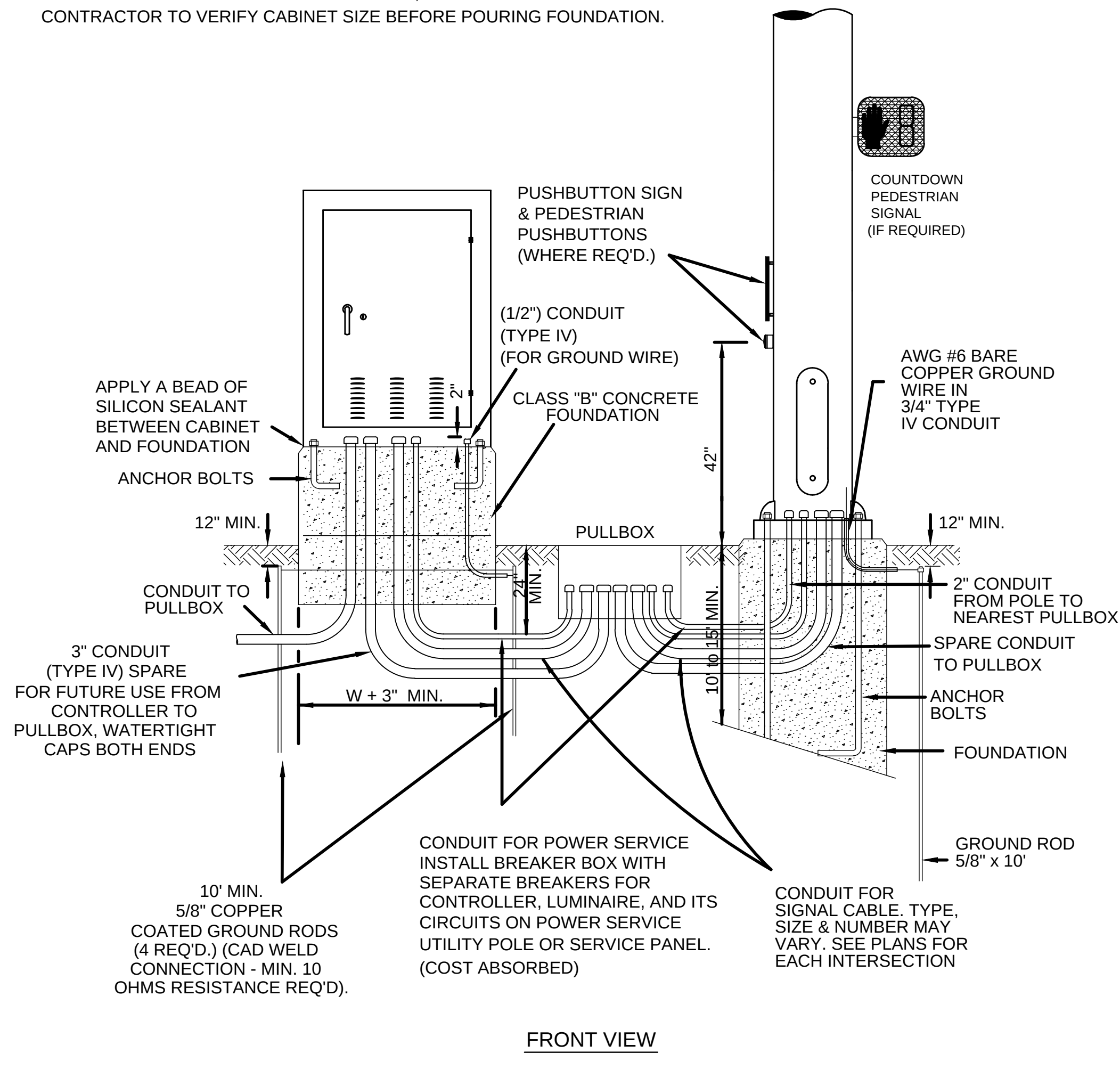
POWER SERVICE DETAIL

TO BE USED FOR SERVICE DOWN POLE OR WHEN METER IS SET ON POLE. SEE TSD-7 FOR POWER SERVICE PEDESTAL DETAILS.



TYPICAL DETAIL FOR POLE MOUNTED CONTROLLER

NOT TO SCALE



FRONT VIEW

TYPICAL DETAIL OF BASE FOR CONTROLLER EQUIPMENT CABINET

NOT TO SCALE

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38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

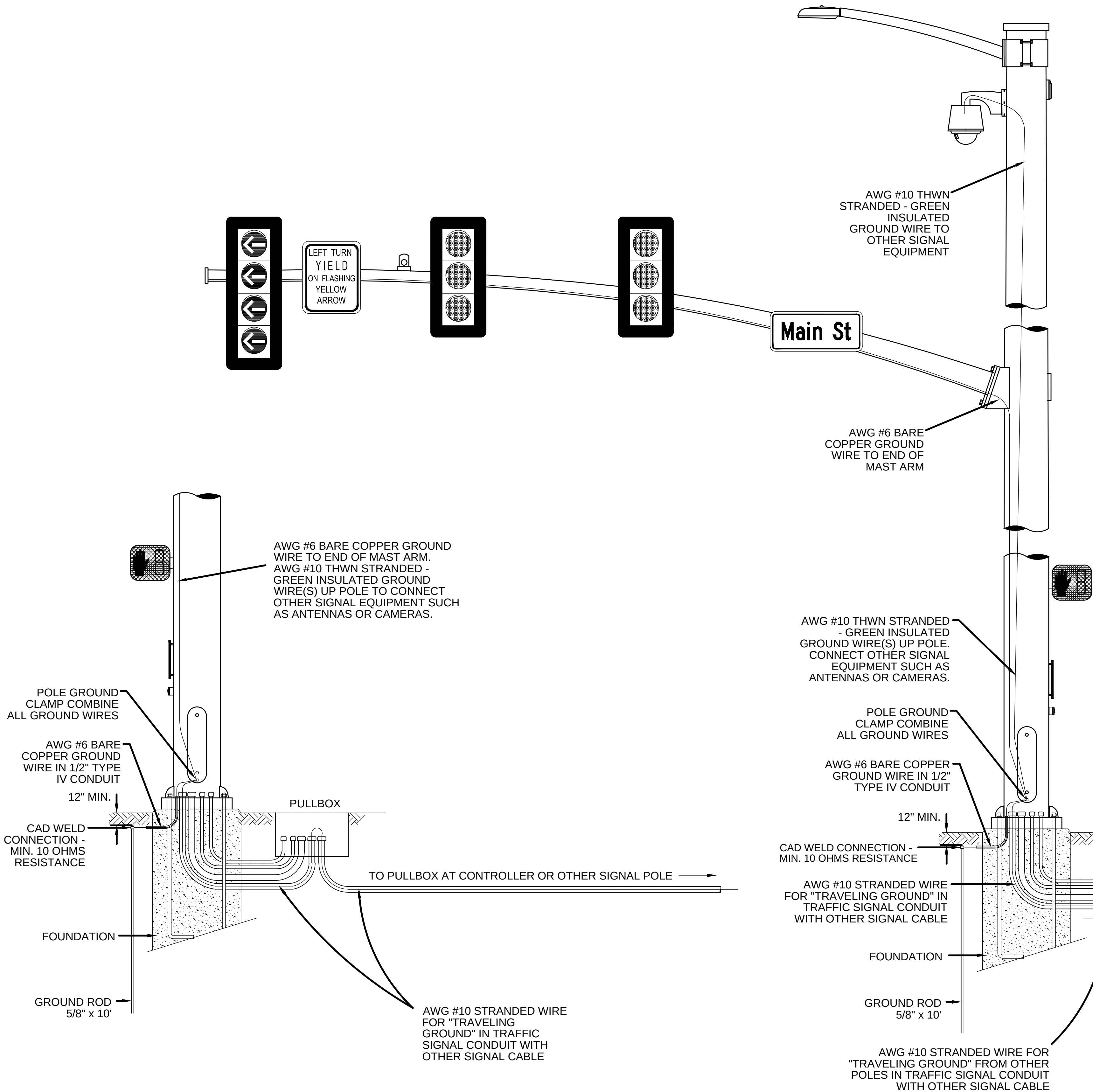


TRAFFIC SIGNAL STANDARDS

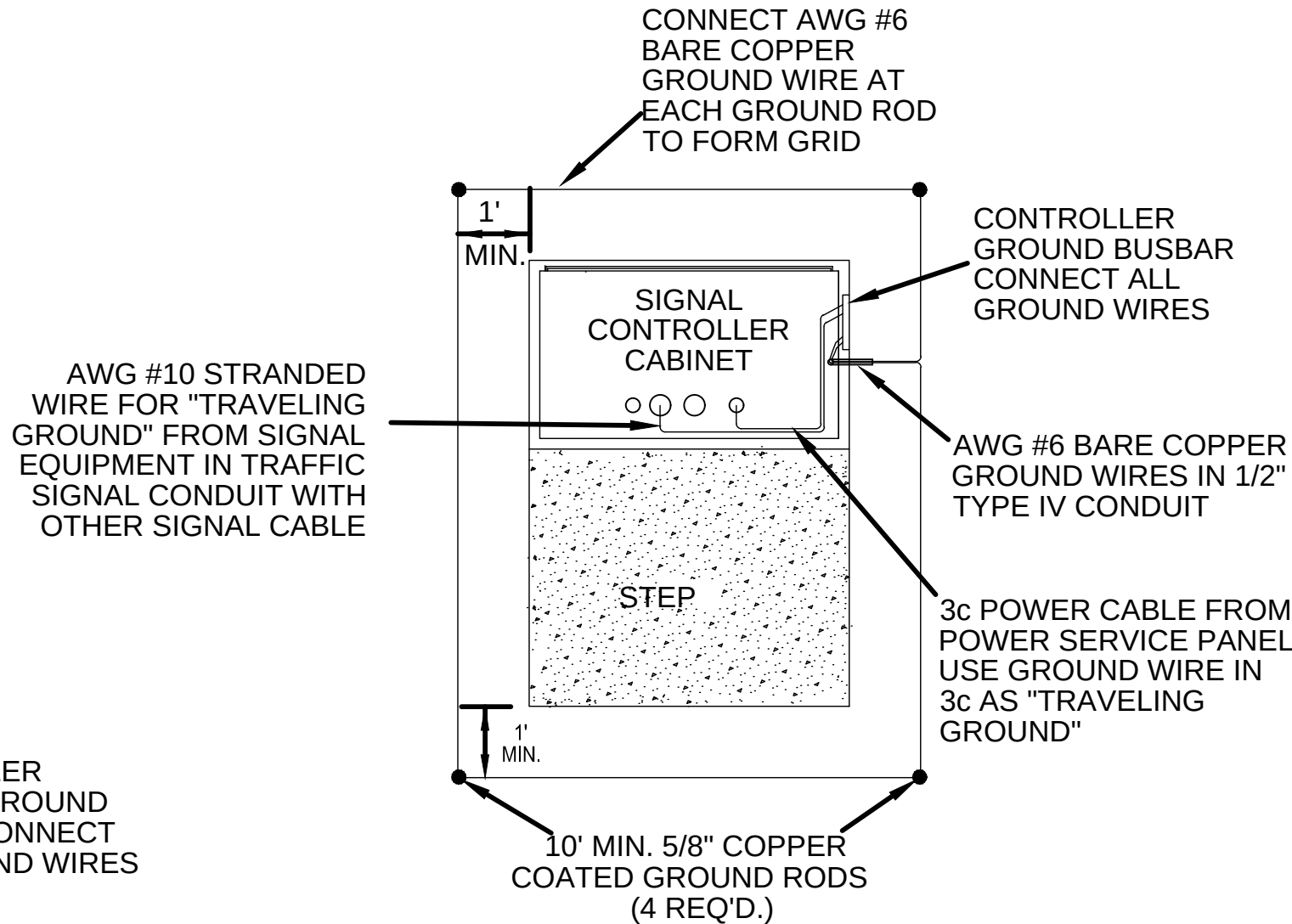
WORKING NUMBER:
TSD-5

DRAWING NUMBER:
30

- GROUNDING NOTES:
1. GROUND RODS USED SHALL BE COPPER CLAD, STEEL RODS OF THE DIAMETER AND LENGTH SHOWN ON THE PLANS. GROUND RODS SHALL CONFORM TO THE REQUIREMENTS OF UL-467. GROUNDING ROD COUPLERS SHALL BE UL APPROVED, MADE FROM BRONZE, STAINLESS STEEL OR COPPER CLAD WITH A SOLID CENTER PROVIDING 100 PERCENT CONDUCTIVITY.
 2. SINGLE GROUND RODS SHALL BE DRIVEN VERTICALLY UNTIL THE TOP OF THE ROD IS AT LEAST 12 INCHES BELOW THE FINISHED GROUND.
 3. SOLID CONDUCTOR COPPER WIRE, AWG 6 SHALL BE USED FOR GROUNDING CONDUCTOR AND BONDING JUMPERS UNLESS OTHERWISE STATED IN THE PLANS. BARE SOLID CONDUCTOR COPPER WIRE SHALL MEET THE REQUIREMENTS OF ASTM B2.
 4. #10 THWN STRANDED - GREEN INSULATED WIRE SHALL BE USED FOR TRAVELING GROUND. THIS WIRE RUNS FROM POLE TO POLE BACK TO CONTROLLER CABINET TO TIE ALL EQUIPMENT TOGETHER. IT IS INSTALLED IN THE SAME CONDUIT AS THE OTHER SIGNAL CABLES.
 5. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS AND SHALL BE CONNECTED TO A COMMON GROUND SYSTEM BETWEEN ALL SUPPORTING POLES AND STRUCTURES, TO EACH TRANSFORMER, AND TO EACH GROUNDING CONDUCTOR IN A MULTI-CONDUCTOR CABLE ASSEMBLY. ADDITIONAL GROUNDING RODS ELECTRODES (UP TO FOUR (4) RODS) SHALL BE INSTALLED TO OBTAIN A MAXIMUM VALUE OF FIVE (5) OHMS TO GROUND.
 6. BOLTED GROUNDING CONNECTIONS OF SOLDER-LESS TYPE MADE OF THE HIGH STRENGTH ELECTRICAL BRONZE WITH SILICON BRONZE CLAMPING BOLTS AND HARDWARE MAY BE USED; DESIGNED SUCH THAT, BOLTS, NUTS, LOCK WASHERS AND SIMILAR HARDWARE THAT MIGHT NICK OR OTHERWISE DAMAGE THE GROUND WIRE WILL NOT DIRECTLY CONTACT THE GROUND WIRE. GROUNDING SPLICES SHALL NOT BE INSULATED.
 7. EXOTHERMIC WELDED GROUND CONNECTIONS SHALL BE USE WHERE SPECIFIED.
 8. ALL SIGNAL EQUIPMENT AND CABLE SHALL BE PROTECTED WITH AN INLINE SURGE SUPPRESSOR IF RECOMMENDED BY THE MANUFACTURER OR A PANEL MOUNTED SURGE SUPPRESSOR AS RECOMMENDED BY THE MANUFACTURER OR APPROVED EQUAL, INSTALLED AND GROUNDED PER MANUFACTURER'S RECOMMENDATIONS.
 9. ALL GROUNDING EQUIPMENT AND WIRE SHALL BE COST ABSORBED.



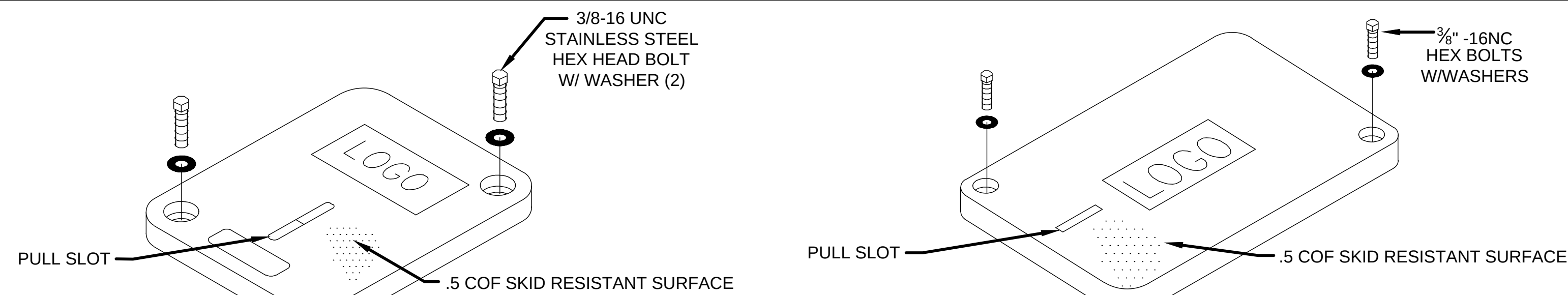
GROUNDING DETAIL
NOT TO SCALE



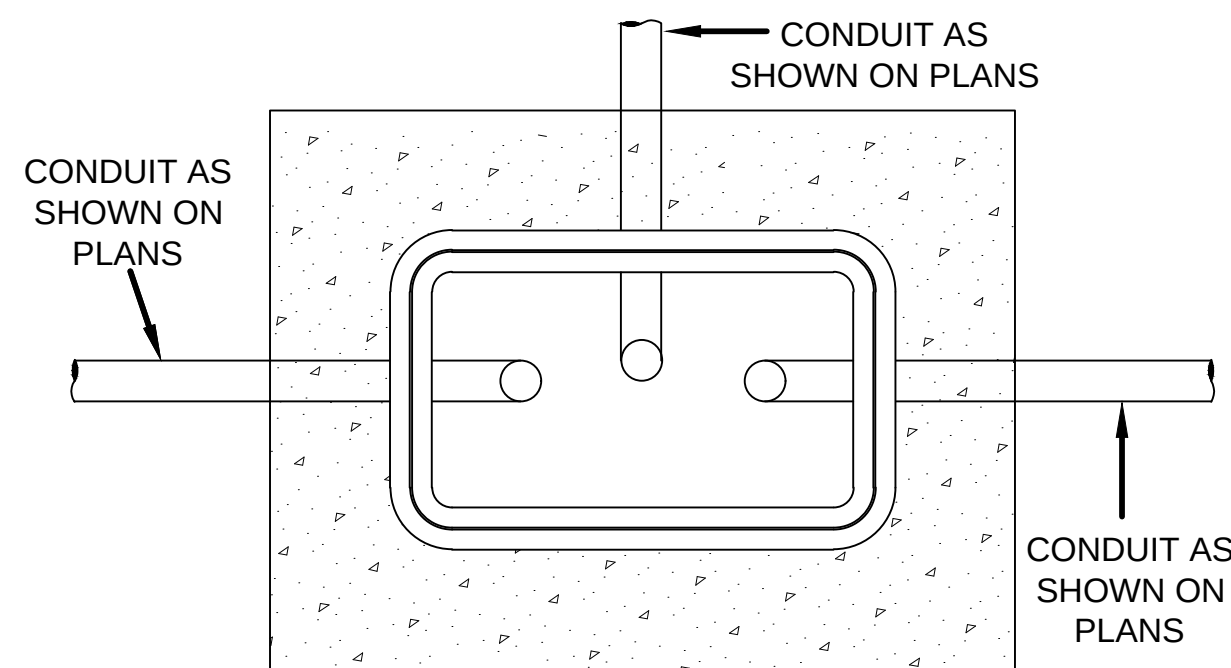
CONTROLLER PLAN VIEW
NOT TO SCALE

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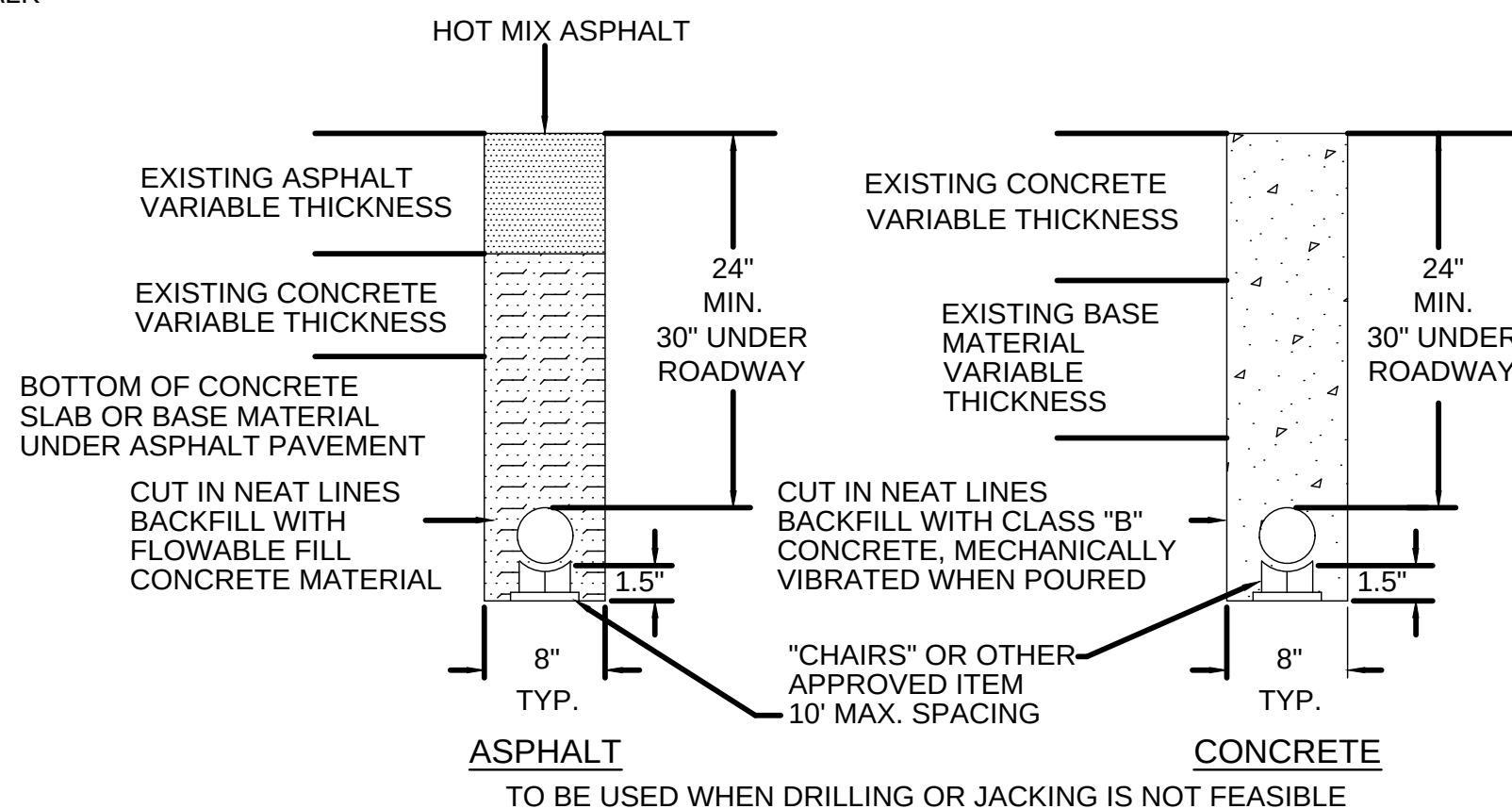
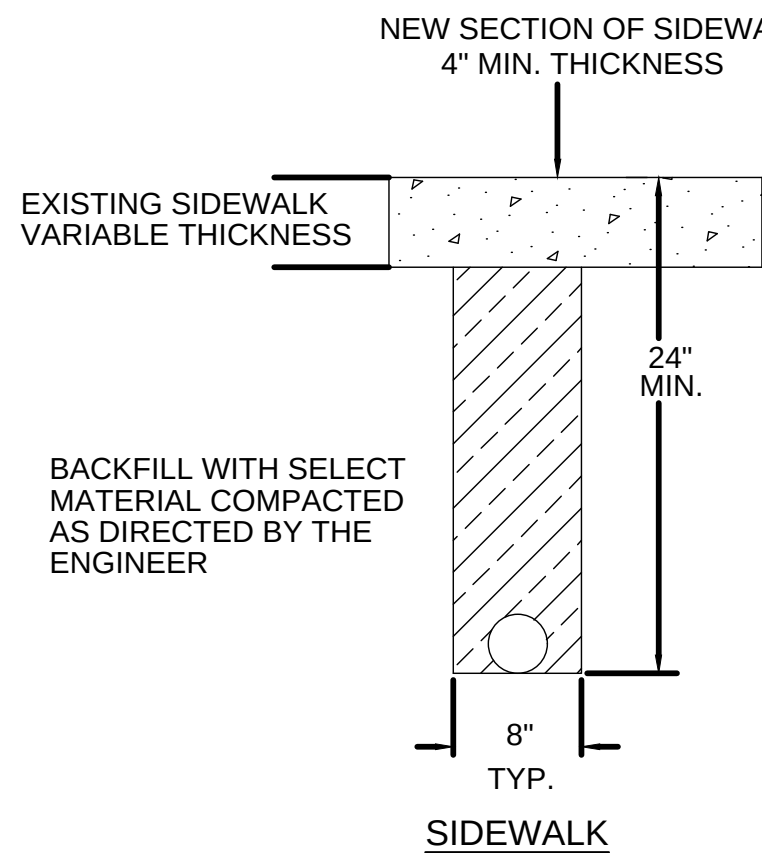
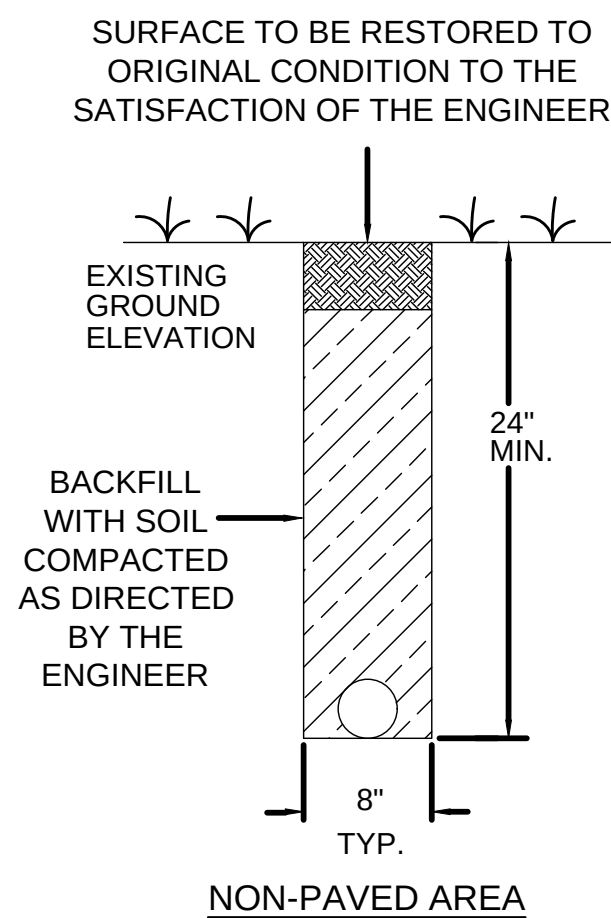
NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS		DRAWING INFORMATION		38TH AVENUE PATHWAY			TRAFFIC SIGNAL STANDARDS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 8667-18-33				
					FILENAME: TSD.dwg				
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					SURVEYED BY: CLEARPOINT ENGINEERS				
					DSGN: MWE	DATE: 01/2019	CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY	WORKING NUMBER: TSD-6	DRAWING NUMBER: 31
					DRWN: WTA	DATE: 01/2019			
					CHKD:	DATE:			
					QA/QC:	DATE:			



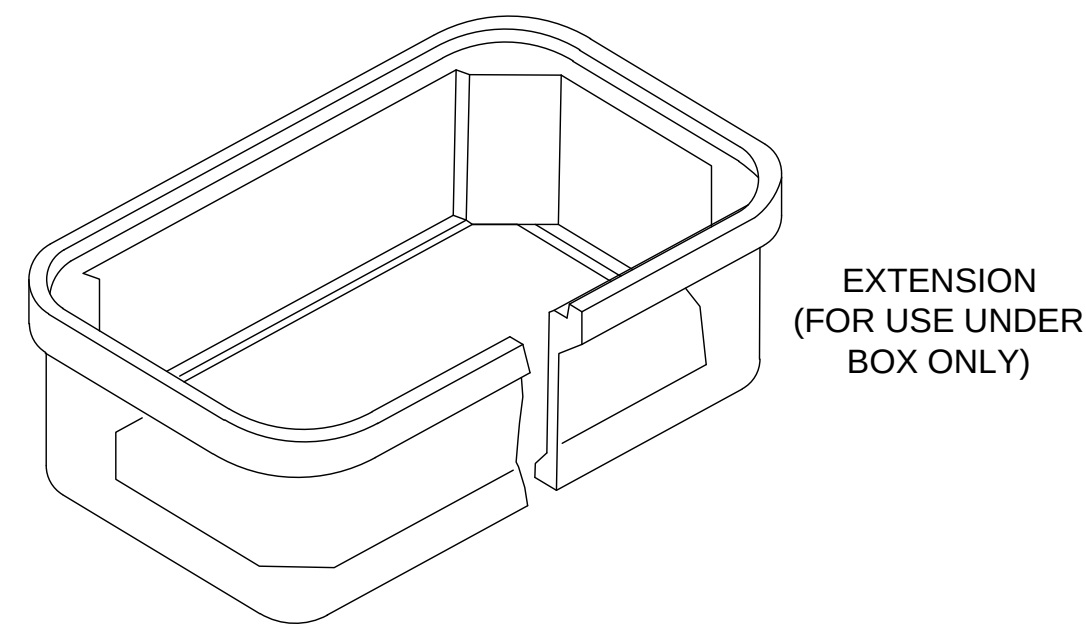
TYPE 1 PULLBOX
NOT TO SCALE



CONDUIT AT PULLBOX DETAIL
NOT TO SCALE



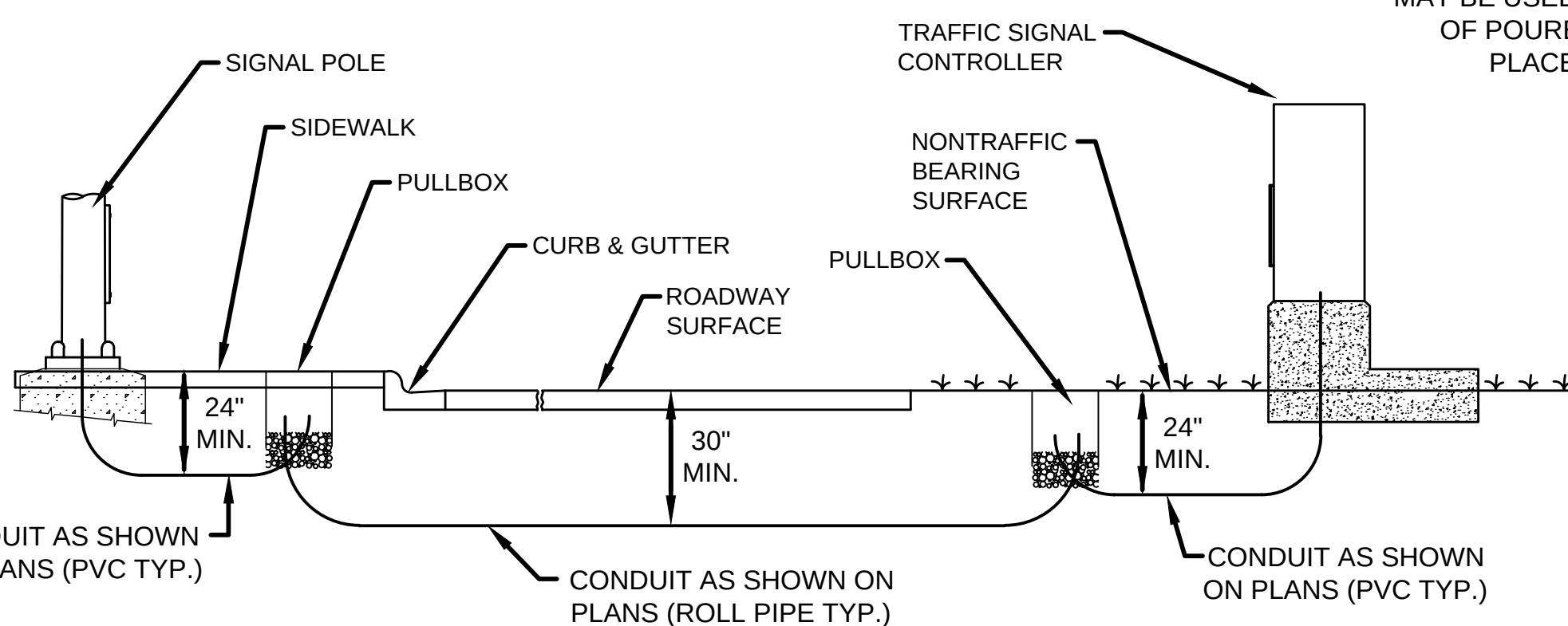
CONDUIT TRENCHING DETAIL
NOT TO SCALE



NOMINAL MINIMUM DIMENSIONS (W x L x D)

DIM	TYPE 1	TYPE 2	TYPE 3
W	11"	13"	17"
L	18"	24"	30"
D	12"	18"	24"

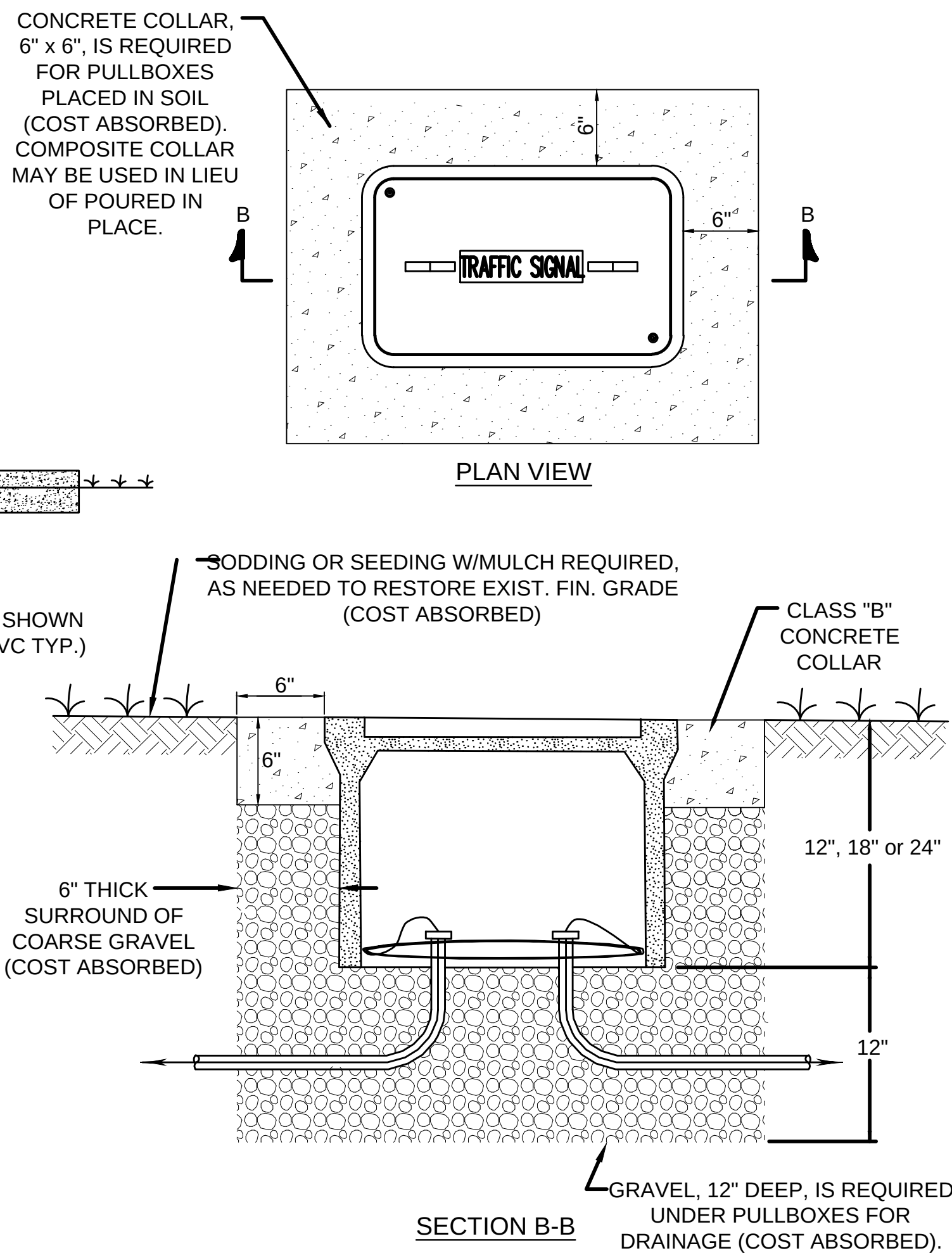
COLLARS AND GRAVEL UNDER PULLBOX REQUIRED FOR ALL TYPES OF PULLBOXES



TYPICAL CONDUIT INSTALLATION SECTION
NOT TO SCALE

- CONDUIT NOTES:
1. TOP OF CONDUIT DEPTH SHALL BE A MINIMUM OF 24" UNLESS WHEN INSTALLED UNDER PAVED ROADWAY WHERE IT SHALL BE 30" MINIMUM DEPTH.
 2. CONDUIT BORED OR DRILLED UNDER RAILROAD SHALL BE 10' MIN. BELOW RR BED, CONDUIT BORED OR DRILLED UNDER STREAMS SHALL BE 5' MIN. BELOW STEAM BED. BORE LOGS WILL BE REQUIRED FOR EACH LOCATION.
 3. PULL TAPE SHALL BE INSTALLED INTO EACH EMPTY CONDUIT (COST ABSORBED).
 4. CONDUIT TO BE SEALED WITH DUCT SEALER ONCE CABLE IS INSTALLED. BLANK DUCT PLUGS SHALL BE INSTALLED IN EACH EMPTY CONDUIT.
 5. SAWCUT SIDEWALK AT EXISTING JOINTS AND REPLACE ENTIRE SECTION TO MATCH EXISTING MATERIAL. WHEN NEW SIDEWALK IS BEING CONSTRUCTED, CONDUIT, PULLBOX, AND POLE ARE TO BE INSTALLED BEFORE SIDEWALK IS POURED.
 6. TYPE I CONDUIT IS RIGID GALV. STEEL; TYPE IV CONDUIT IS PVC; FLEXIBLE CONDUIT AND ROLL PIPE ARE HDPE.
 7. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION WORK UNDER ROADWAY WITH ROADWAY CONSTRUCTION PHASING IN ORDER TO MINIMIZE JACKING.
 8. MATERIAL REMOVED THAT IS NOT SUITABLE FOR BACKFILL OR IS EXCESS SHALL BE DISPOSED OF BY THE CONTRACTOR (COST ABSORBED).
 9. CONDUIT WILL BE MEASURED PER LINEAR FEET TO THE NEAREST FOOT FROM CENTER TO CENTER OF PULL BOX AND/OR FOUNDATION. MEASUREMENT IN UNDERGROUND CONDUIT IS ONLY IN THE HORIZONTAL PLANE AND NO ADDITIONAL QUANTITY SHALL BE ADDED FOR CONDUIT DEPTH OR CHANGE IN ELEVATION OF THE CONDUIT. ANY ABOVE GROUND VERTICAL CONDUIT RUNS, AS INDICATED IN THE PLANS, SHALL BE MEASURED PER LINEAR FEET TO THE NEAREST FOOT.

- PULLBOX NOTES:
1. GRADE LEVEL PULL BOX, ENCLOSURES, STRUCTURAL JUNCTION BOXES AND COVERS SHALL MEET THE REQUIREMENTS OF SUBSECTION 722.06 OF SPECS. ALL PULLBOXES SHALL BE TIER 22 = 22,500-POUND DESIGN LOAD, 33,750-POUND TEST LOAD.
 2. IN GENERAL, TYPE 2 BOXES ARE USED FOR CORNERS WHERE SIGNAL CONDUIT UNDER ROADWAY AND TO SIGNAL POLE MEET, TYPE 3 BOXES ARE USED AT CONTROLLER CORNER WHERE ADDITIONAL ROOM FOR EXTRA CONDUIT IS REQUIRED.
 3. LOGOS SHALL READ TRAFFIC, SIGNAL, OR TRAFFIC SIGNAL.
 4. PULLBOXES SHALL NOT BE LOCATED IN THE ROADWAY, SIDEWALK, DRIVEWAY OR OTHER PATHWAY SURFACES UNLESS SPECIFICALLY REQUIRED ON THE PLANS. THEY SHALL NOT BE LOCATED IN DRAINAGE COLLECTION AREAS AND LOCATIONS WHERE DRAINAGE RUNOFF OCCURS SHOULD BE AVOIDED WHENEVER POSSIBLE.
 5. THE FINAL GRADE OF PULLBOX TOP SHALL BE FLUSH WITH ADJACENT MATERIAL WHEN THEY MUST BE INSTALLED WITHIN SIDEWALKS, ISLANDS OR BARRIER WALLS. THE FINAL GRADE OF TOP LOCATED IN SOIL OR SODDED AREAS SHALL BE APPROXIMATELY ONE (1) INCH HIGHER THAN ADJACENT EARTH OR SODDED AREAS.



COLLAR AND GRAVEL DETAIL
NOT TO SCALE

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				DRWN:	WTA DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

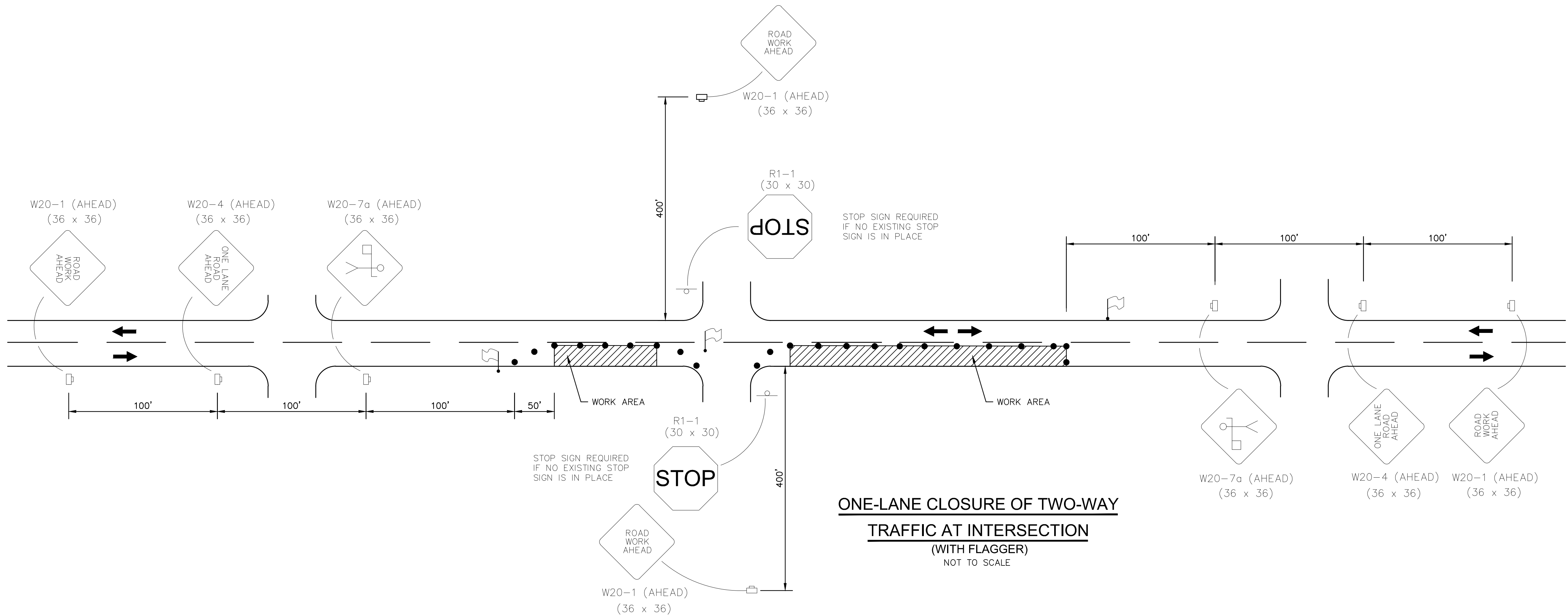
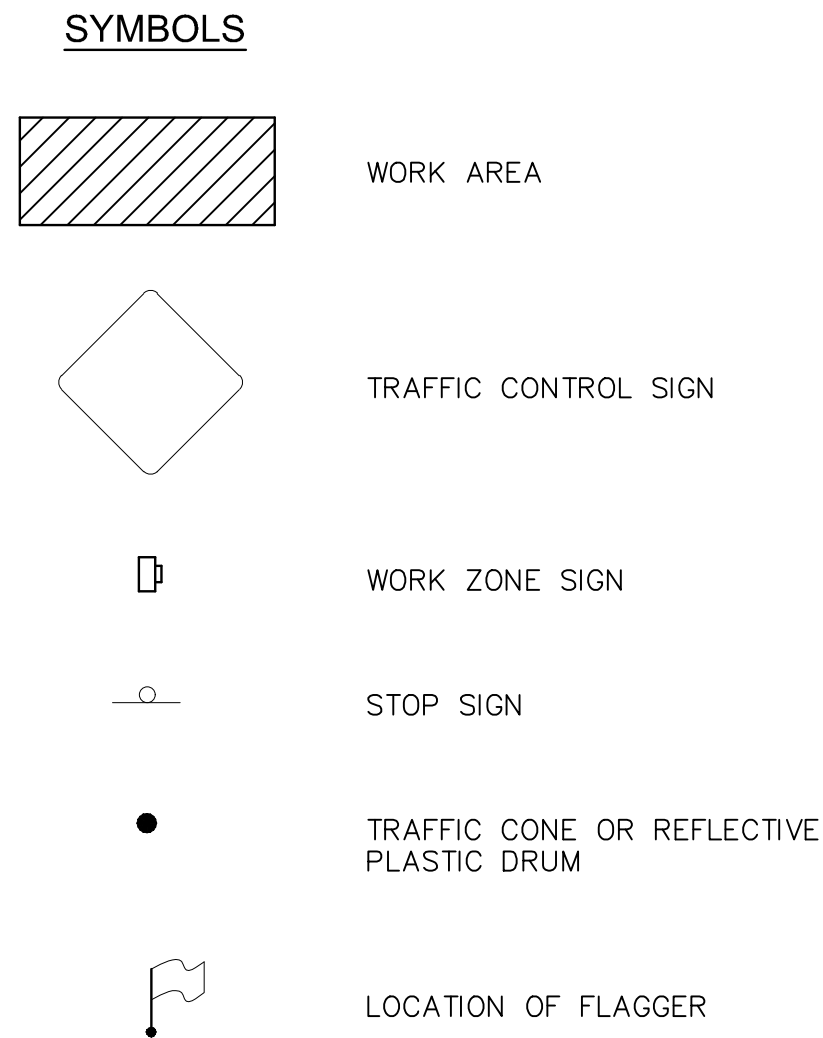
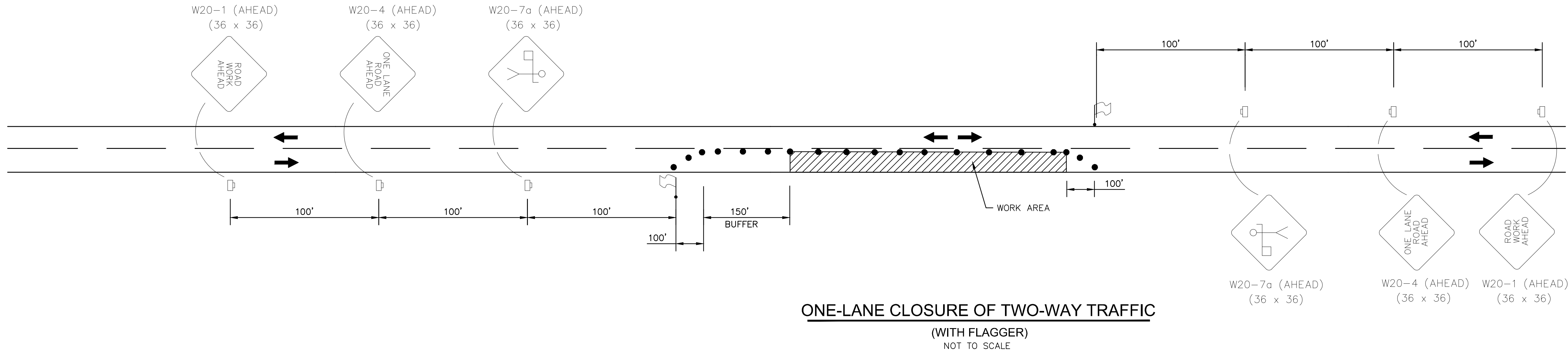
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TRAFFIC SIGNAL STANDARDS

WORKING NUMBER:
TSD-7

DRAWING NUMBER:
32



- GENERAL NOTES:**
- CONTRACTOR SHALL SET UP ALL TRAFFIC CONTROL DEVICES AND SIGNS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
 - WORK OPERATIONS SHALL BE CONFINED TO ONE TRAVEL LANE, LEAVING THE OPPOSING TRAVEL LANE OPEN TO TRAFFIC.
 - ALL VEHICLES, EQUIPMENT, WORKERS (EXCEPT FLAGGERS) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE ROADWAY.
 - FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
 - THE CONTRACTOR SHALL PROVIDE ACCESS (INGRESS AND EGRESS) TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY BUSINESSES AND HOMEOWNERS 48 HOURS IN ADVANCE OF ACCESS RESTRICTIONS.
 - CHANNELIZING DEVICES SHALL BE A MINIMUM HEIGHT OF 24".
 - DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" X 36".
 - SPACING OF CHANNELIZING DEVICES ALONG LANE LINE AND WORK ZONE TO BE EQUAL TO THE POSTED SPEED (M.P.H.) X 1 IN FEET. (EXAMPLE 35 M.P.H. X 1 = 35')
 - WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
 - WHEN THE WORK ZONE IS STATIONARY, THE W20-7a SIGN SHOULD BE PLACED 200 FEET IN ADVANCE OF THE FLAGGER AND SHOULD INDICATE 200' AS THE DISTANCE.
 - ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS.
 - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
 - DISTANCES BETWEEN SIGNS ARE APPROXIMATE. SIGN SPACING SHOULD BE ADJUSTED FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC., TO IMPROVE VISIBILITY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

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				QA/QC:	DATE:

38TH AVENUE PATHWAY
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



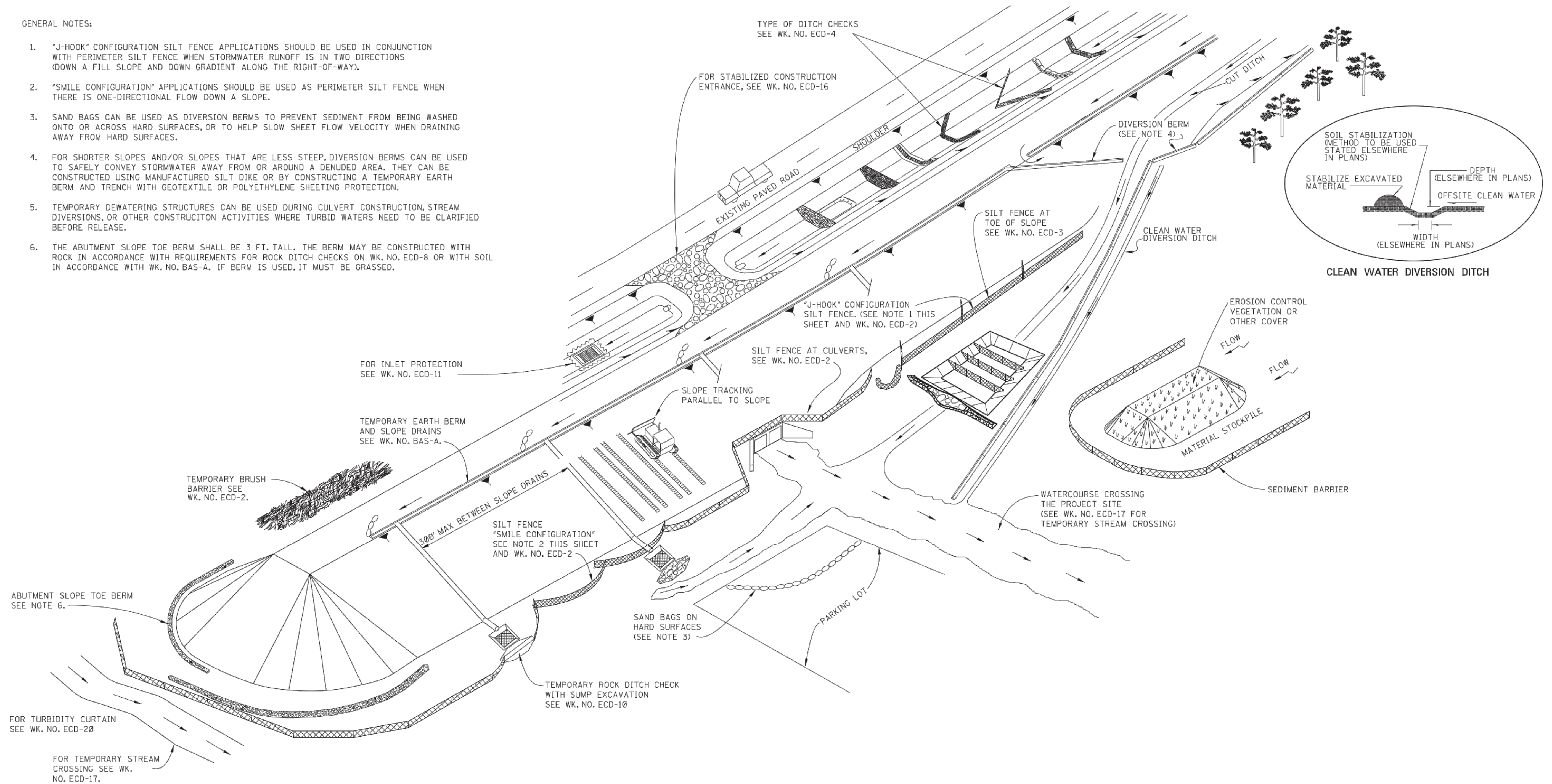
TRAFFIC CONTROL PLAN

WORKING NUMBER:
TCP-2

DRAWING NUMBER:
34

GENERAL NOTES:

1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS SHOULD BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS SHOULD BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES, OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FT. TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON WK. NO. ECD-8 OR WITH SOIL IN ACCORDANCE WITH WK. NO. BAS-A. IF BERM IS USED, IT MUST BE GRASSED.



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38TH AVENUE PATHWAY

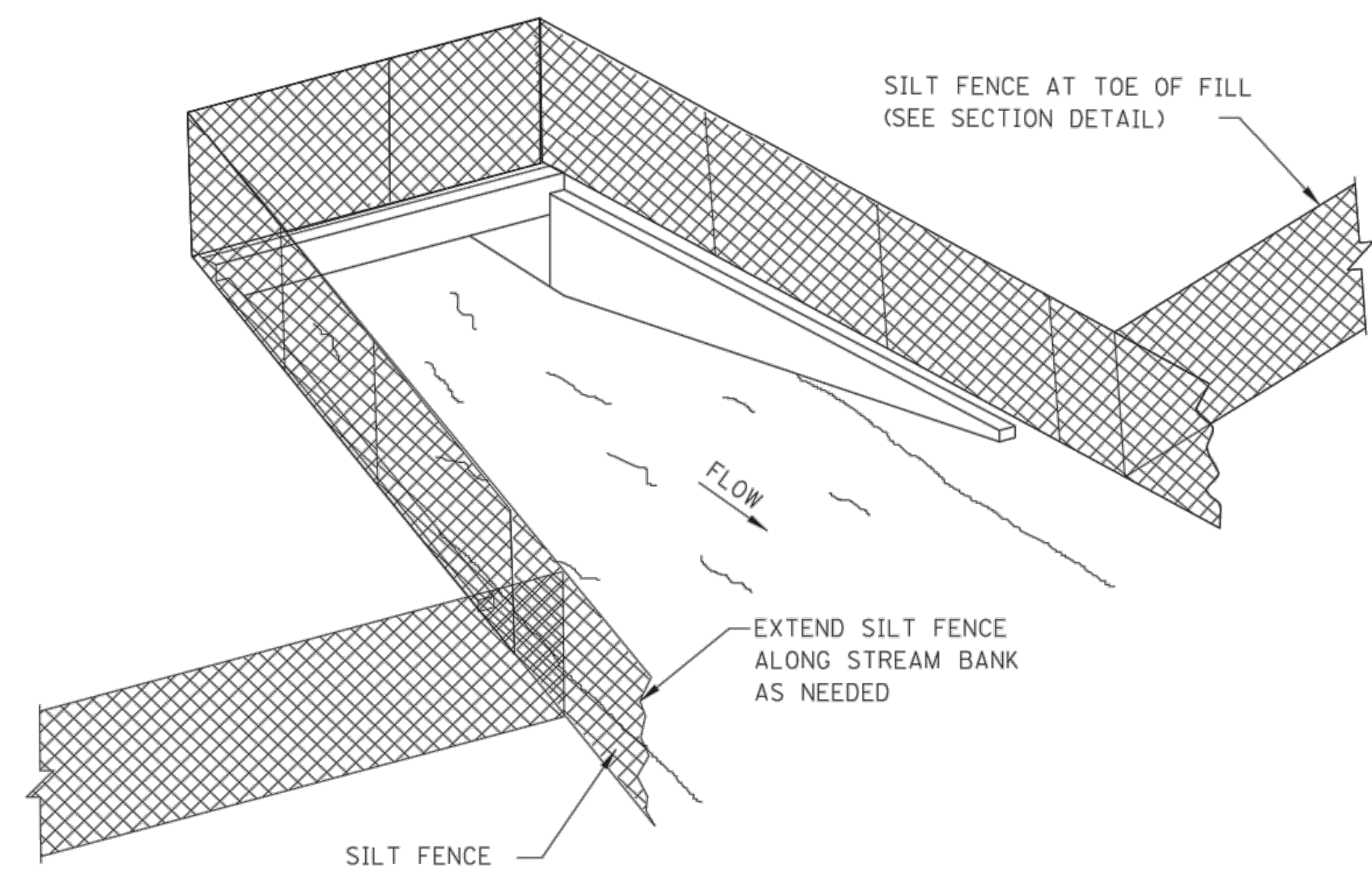
CITY OF HATTIESBURG
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FORREST COUNTY



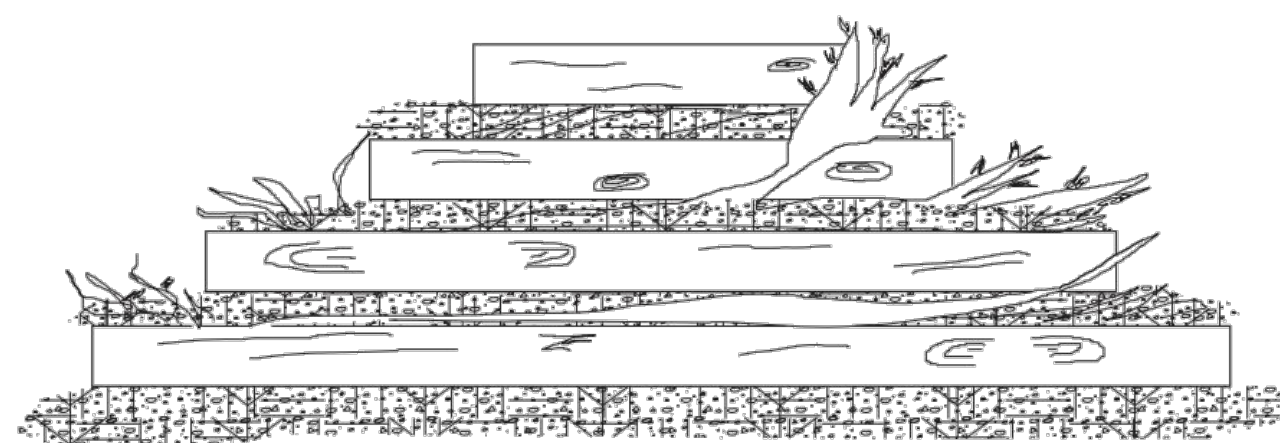
TYPICAL TEMPORARY
EROSION / SEDIMENT
CONTROL APPLICATIONS

WORKING NUMBER:
ECD-1

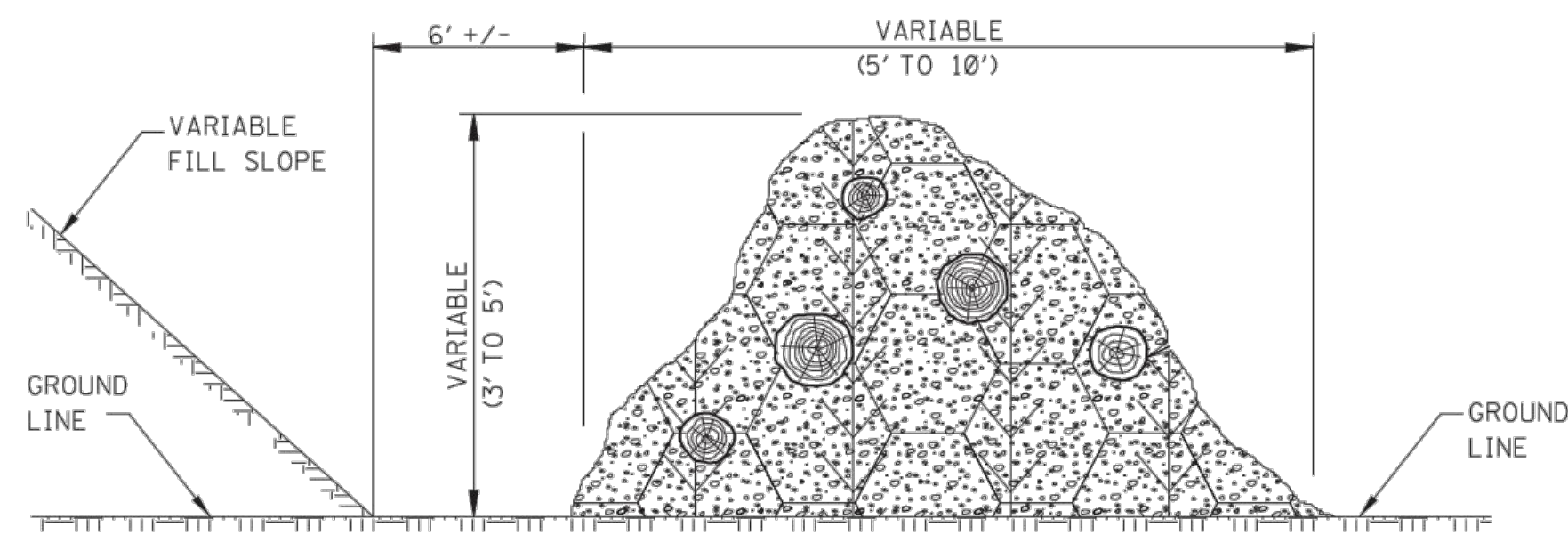
DRAWING NUMBER:
35



SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION



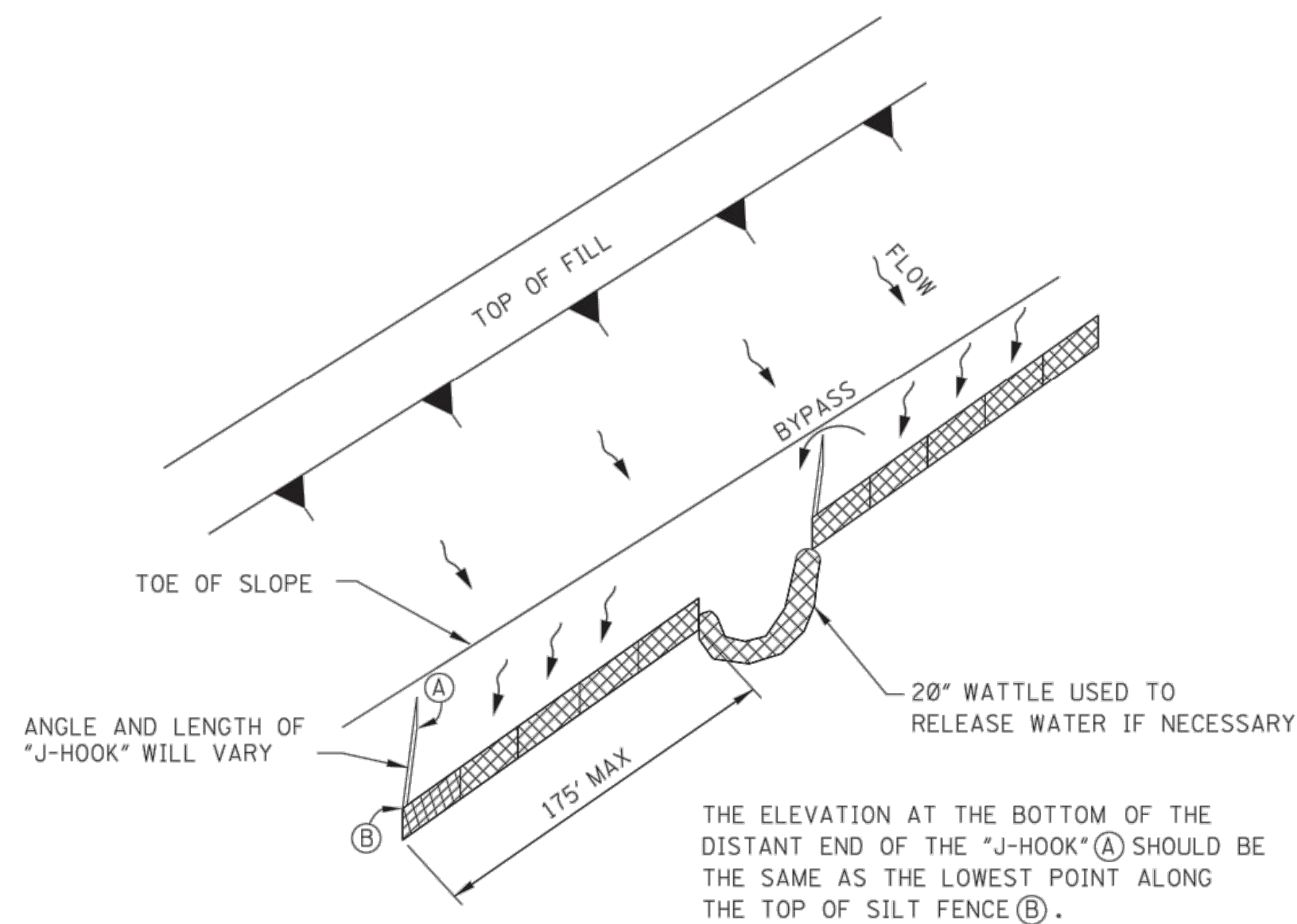
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

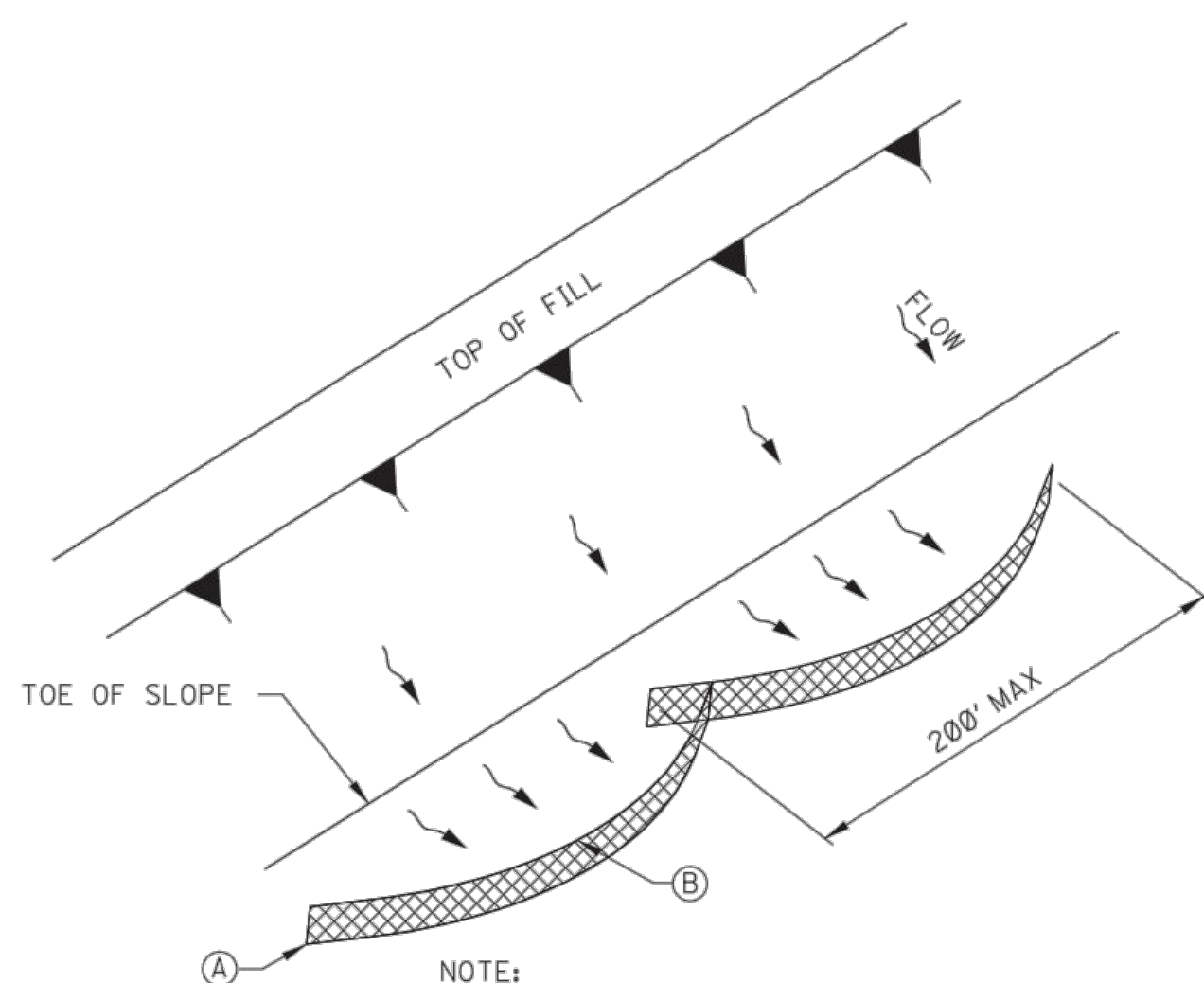
NOTES:

1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TO TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC. THE COST OF FABRIC TO BE INCLUDED IN OTHER ITEMS BID.
5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPARATE PAYMENT.

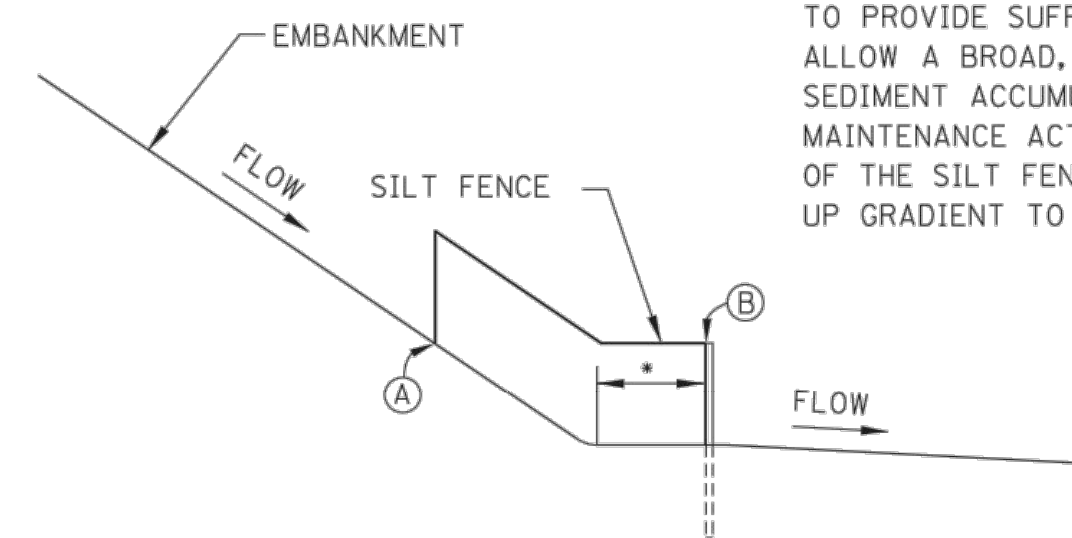
NOTE: ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON WK. NO. ECD-3



"J-HOOK" SILT FENCE APPLICATION



"SMILE-CONFIGURATION" SILT FENCE APPLICATION



SILT FENCE SECTION AT TOE OF FILL

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38TH AVENUE PATHWAY

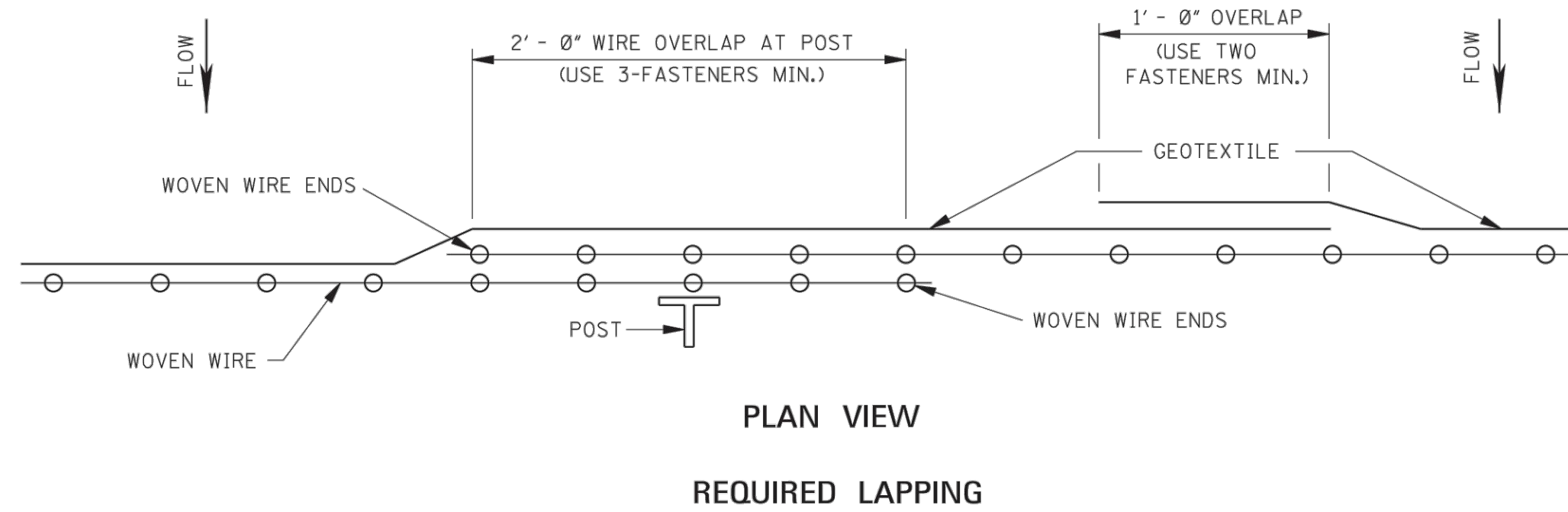
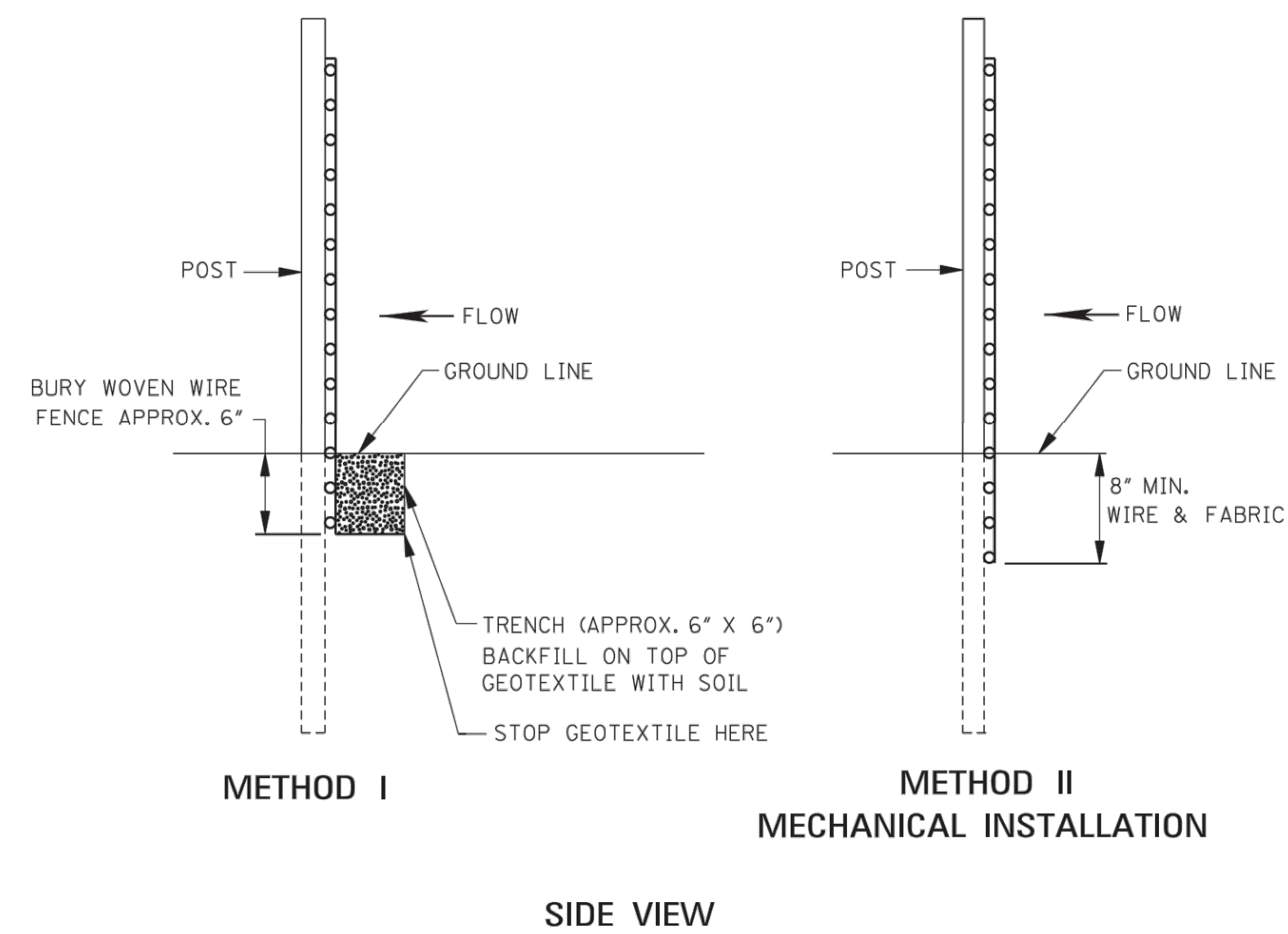
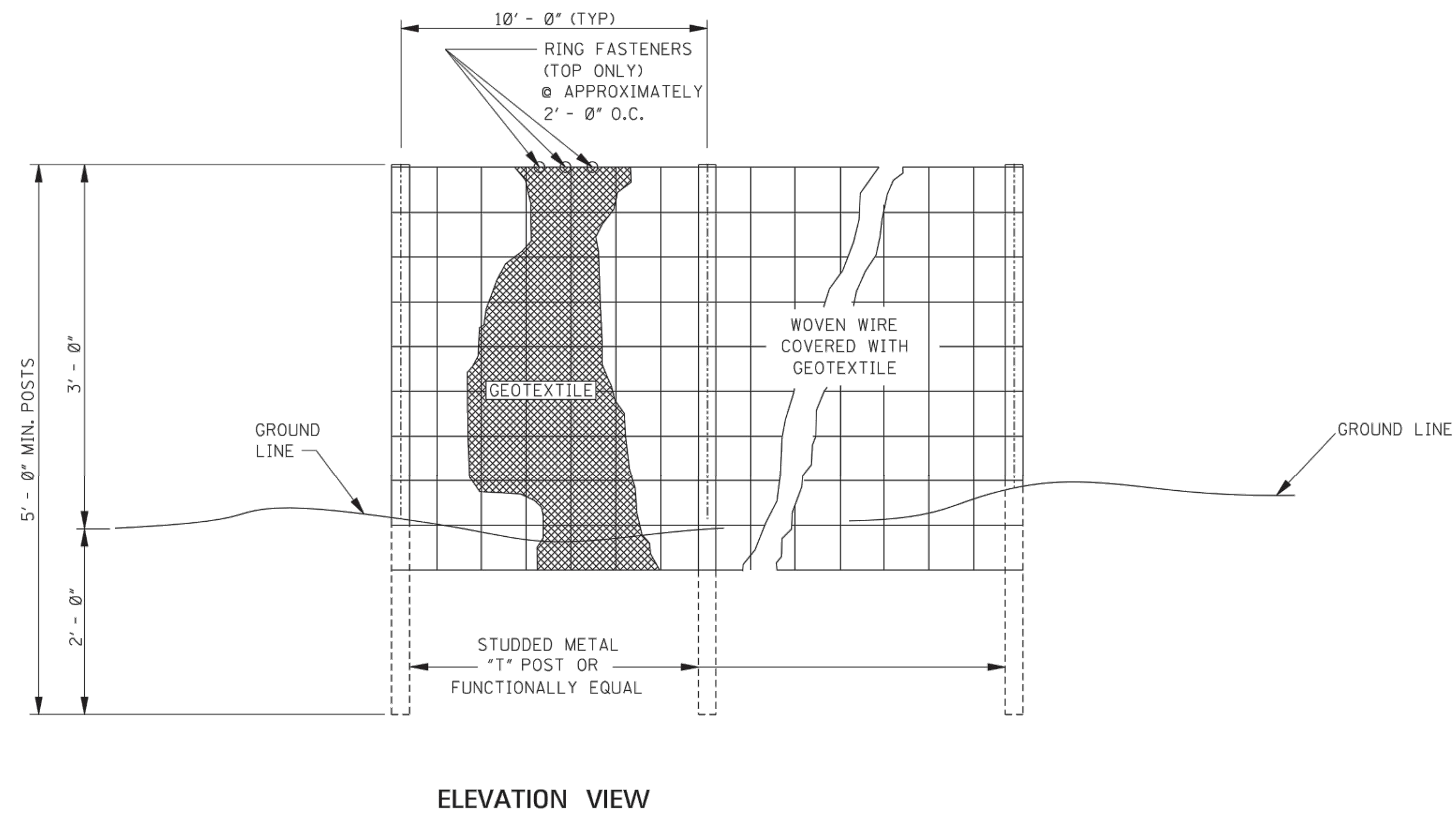
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



DETAILS OF SEDIMENT
BARRIER APPLICATIONS

WORKING NUMBER:
ECD-2

DRAWING NUMBER:
36



GENERAL NOTES:

1. SILT FENCES SHOULD BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHOULD BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STEAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHENEVER POSSIBLE SILT FENCE SHOULD BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AN FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF DETAIL.
7. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE.

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38TH AVENUE PATHWAY

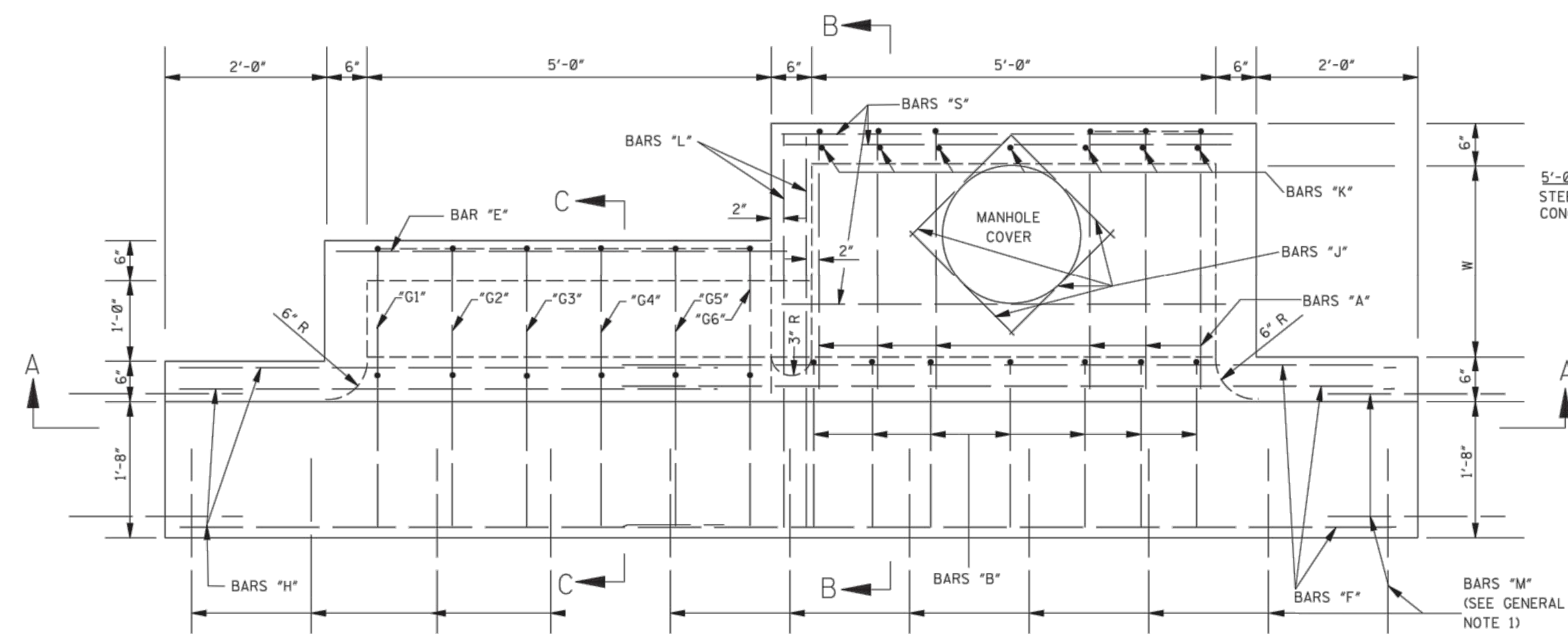
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



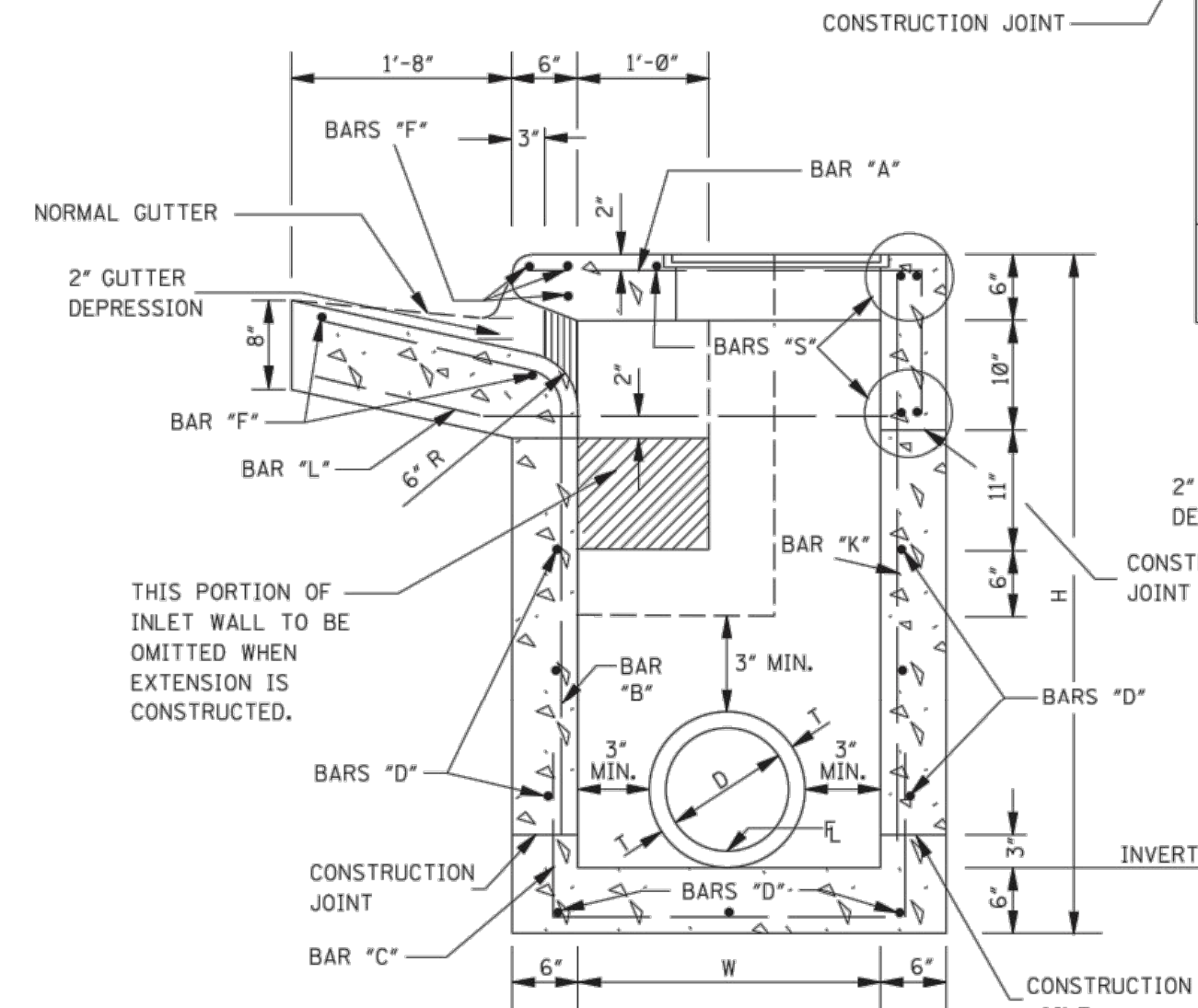
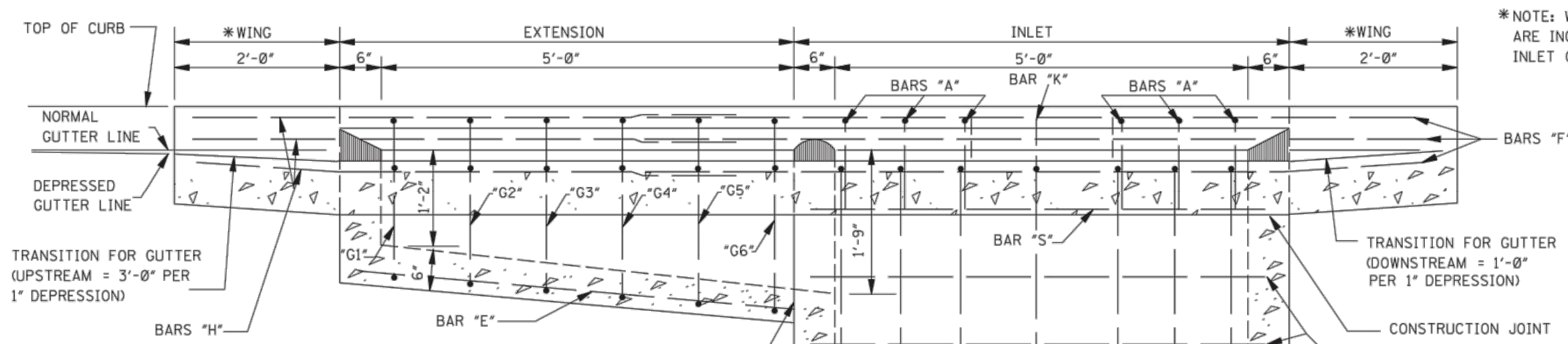
DETAILS OF SILT FENCE
INSTALLATION

WORKING NUMBER:
ECD-3

DRAWING NUMBER:
37

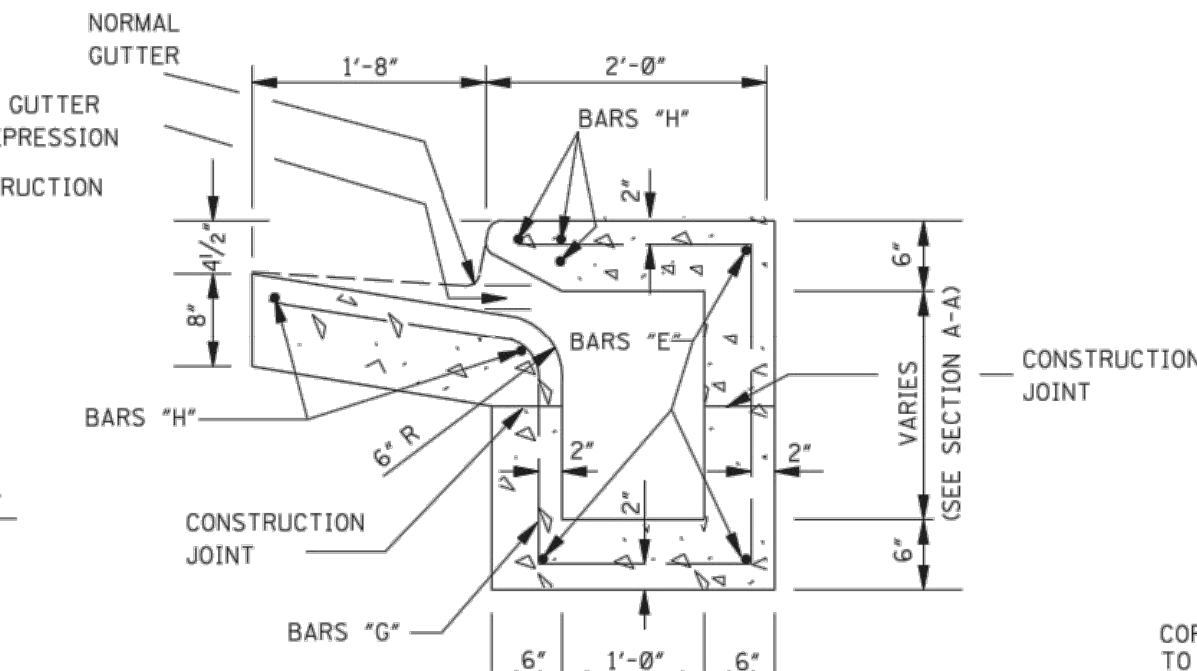


PLAN

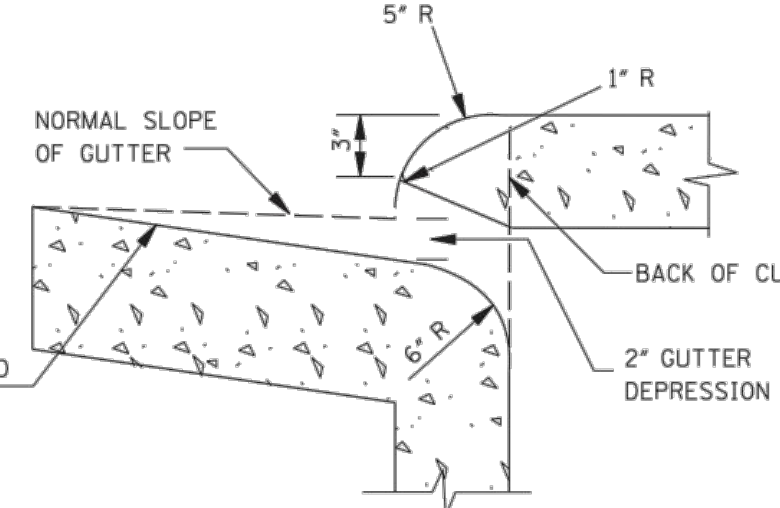


THROAT DETAIL OF BARRIER CURB

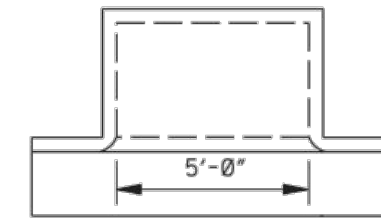
SECTION A-A



SECTION C-C

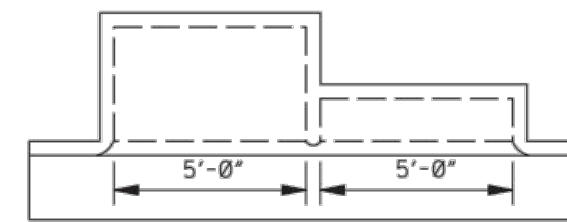


THROAT DETAIL OF ROLLED CURB



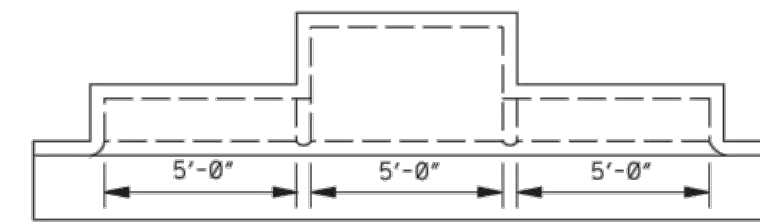
REGULAR INLET

5'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 121
CONC. = (WY + 5.5W + 6Y + 14.611)/27



INLET WITH ONE EXTENSION

10'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 231
CONC. = (WY + 5.5W + 6Y + 38.641)/27



INLET WITH TWO EXTENSIONS

15'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 341
CONC. = (WY + 5.5W + 6Y + 62.671)/27

- NOTES:
1. W AND H ARE EXPRESSED IN DECIMAL FEET.
 2. W' = W, ROUNDED TO NEAREST WHOLE FOOT.
 3. Y = (H-0.5).
 4. H' = (H - 2.08) ROUNDED TO NEAREST WHOLE FOOT.
 5. NO DEDUCTIONS ARE MADE FOR PIPE OPENINGS IN FORMULAS.

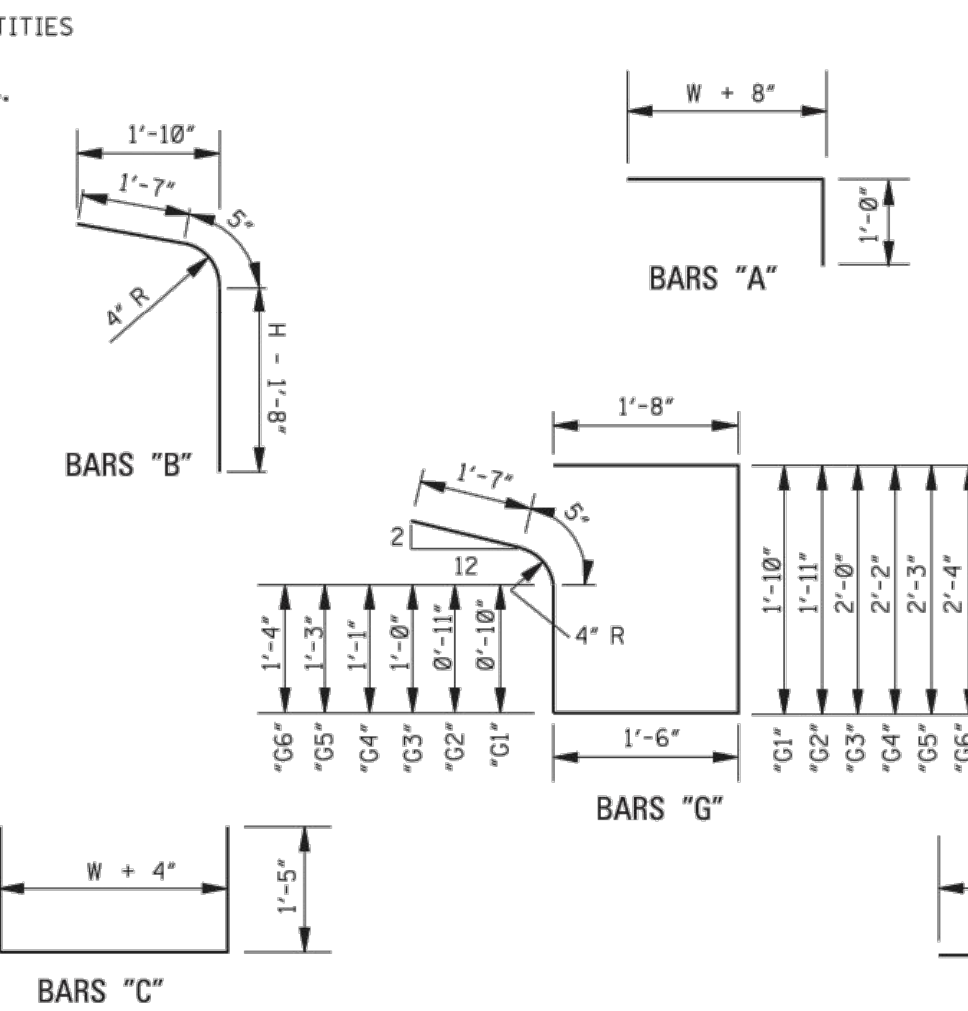
PLAN OF INLET AND EXTENSIONS

ADD. CONCRETE PER FOOT OF H			ADD. CONCRETE PER FOOT OF W		
W	yd ³ /ft		H	yd ³ /ft	
2'-6"	0.315		3'-6"	0.315	
3'-0"	0.333		4'-0"	0.333	
3'-6"	0.352		4'-6"	0.352	
4'-0"	0.371		5'-0"	0.370	
4'-6"	0.389		5'-6"	0.389	
5'-0"	0.408		6'-0"	0.408	
5'-6"	0.426		6'-6"	0.426	
6'-0"	0.445		7'-0"	0.445	
6'-6"	0.463		7'-6"	0.463	
7'-0"	0.481		8'-0"	0.482	
			8'-6"	0.500	

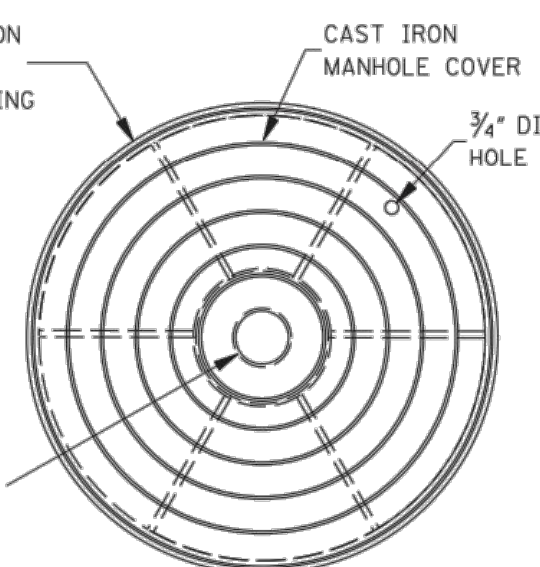
QUANTITIES FOR ONE EXTENSION					
BAR	SIZE	LENGTH	SPACING	NUMBER	WEIGHT
"E"	#4	5'-8"	AS SHOWN	3	11
"G"	#4	SEE SCHEDULE	0'-11"	6	34
"H"	#6	6'-9"	AS SHOWN	5	51
"L"	#6	4'-9"	AS SHOWN	2	14
TOTAL STEEL FOR ONE EXTENSION = 110 lbs					
TOTAL CONCRETE FOR ONE EXTENSION = 0.89 yd ³					

(NOTE: WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 lbs OF STEEL FOR BARS "M".)

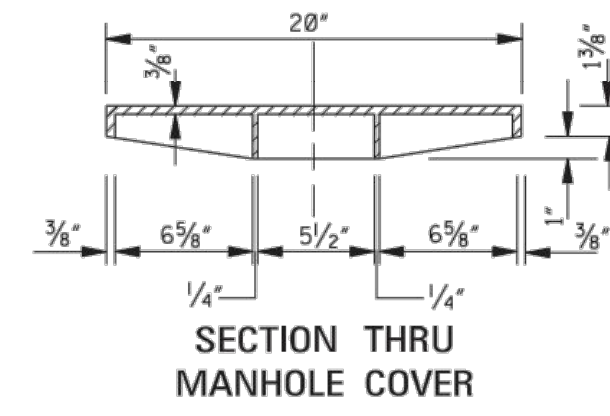
BAR "G" SCHEDULE	
BAR "G"	LENGTH
"G1"	7'-10"
"G2"	8'-0"
"G3"	8'-2"
"G4"	8'-5"
"G5"	8'-8"
"G6"	8'-10"



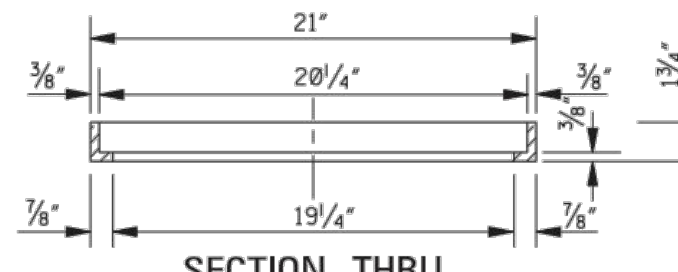
BAR DETAILS



PLAN



SECTION THRU MANHOLE COVER



SECTION THRU MANHOLE COVER RING

NOTE: WEIGHT OF RING & COVER = 79 lbs

DETAIL OF KEYED CONSTRUCTION JOINTS

NOTE: FIELD BEND BARS "L" TO CENTER OF GUTTER SECTION

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	

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SCALE:	
SURVEYED BY: CLEARPOINT ENGINEERS	
DSGN: MWE	DATE: 01/2019
DRWN: WTA	DATE: 01/2019
CHKD:	DATE:
QA/QC:	DATE:

38TH AVENUE PATHWAY

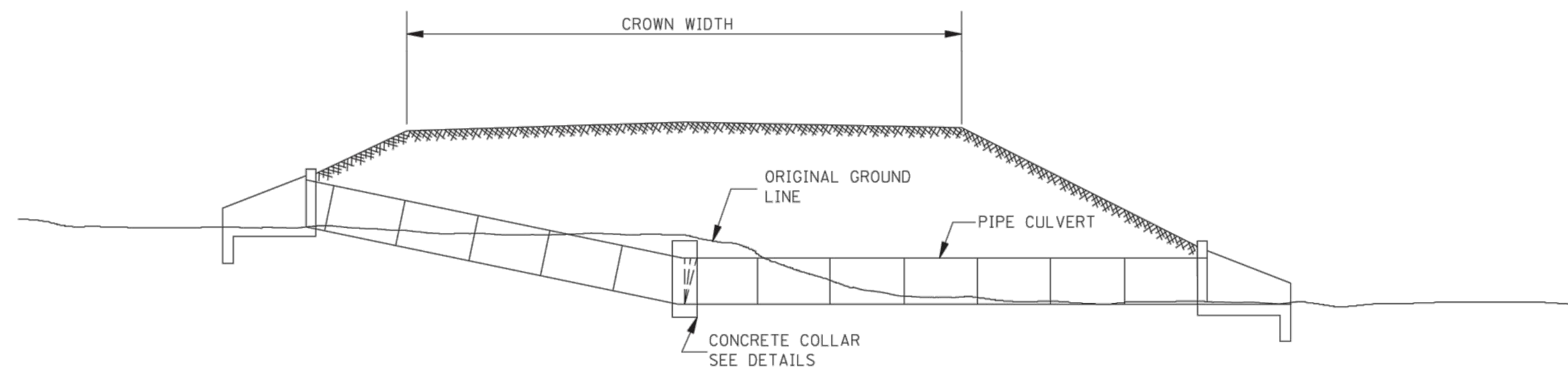
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



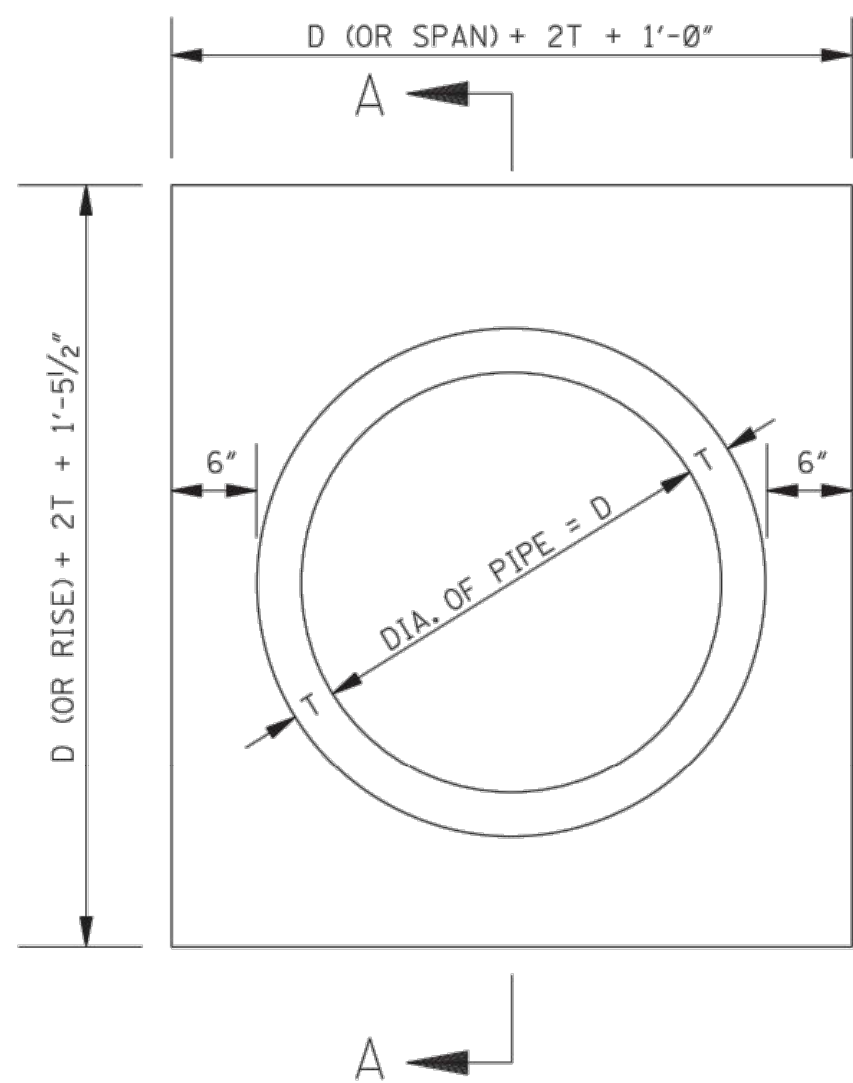
CURB INLET DETAILS

WORKING NUMBER:
SS-2

DRAWING NUMBER:
38

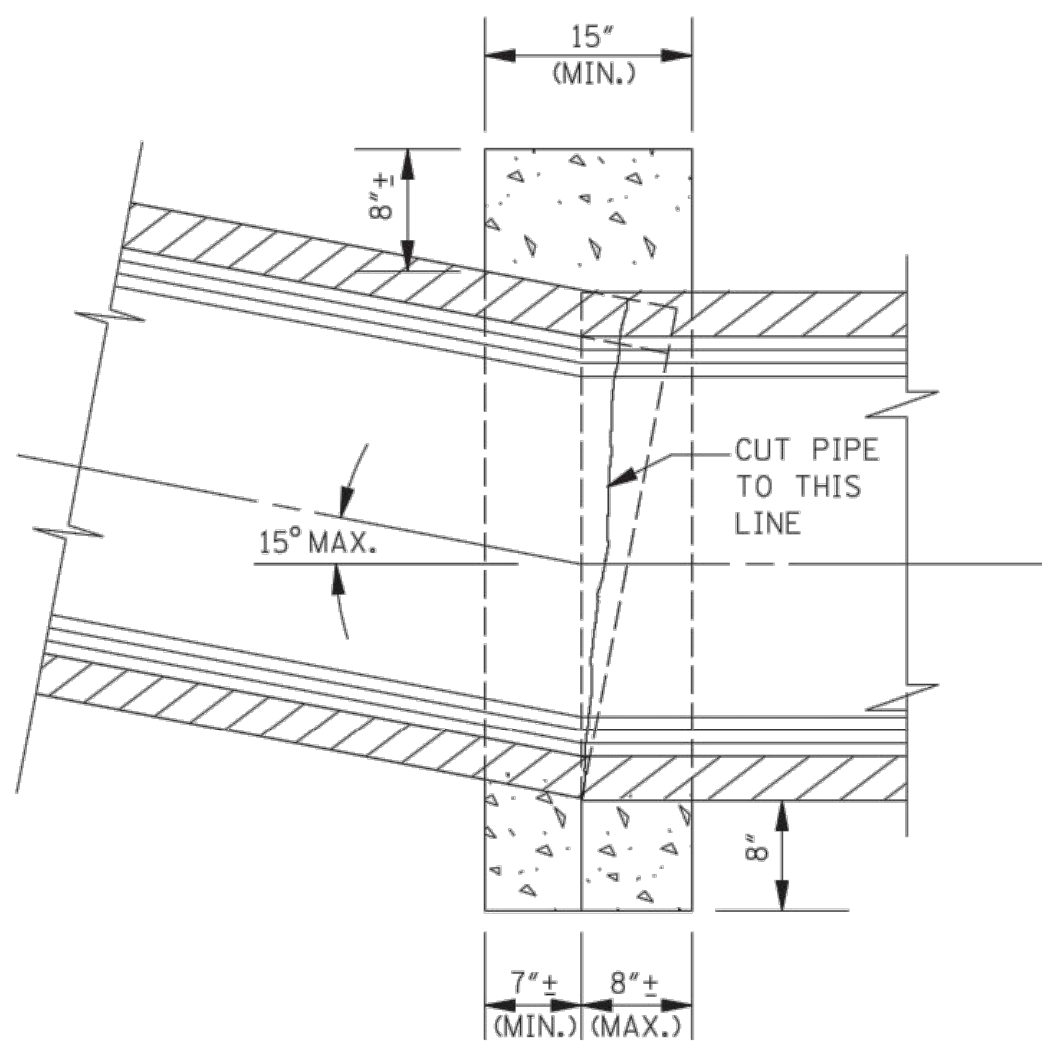


TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR

NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A-A

GENERAL NOTES:

1. THE MAXIMUM BEND ANGLE IS 15 DEGREES.
2. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd ³)	SIZE OF PIPE	CLASS "B" CONCRETE (yd ³)
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

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NOTICE TO DRAWING HOLDER				REVISIONS		DRAWING INFORMATION		38TH AVENUE PATHWAY CITY OF HATTIESBURG HATTIESBURG, MS FORREST COUNTY		NEEL-SCHAFFER <i>Solutions you can build upon</i> PIPE COLLAR DETAILS			
NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.				NO.	DATE	BY	DESCRIPTION					N-S PROJECT NO.: 8667-18-33	
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												DSGN: MWE	DATE: 01/2019
												DRWN: WTA	DATE: 01/2019
				CHKD:	DATE:			WORKING NUMBER:		DRAWING NUMBER:			
				QA/QC:	DATE:			PC-1		39			

PLAN OF COVER

ELEVATION OF COVER

SECTION B-B

PLAN

SECTION A-A

LIFT BAR

NOTE: LIFT BAR TO BE FABRICATED FROM A #4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

REINFORCING BAR LIST			
BAR	SIZE	NUMBER REQUIRED	LENGTH
A	"#4	2 PER PIPE OPENING	$\sqrt{196' + \left(\frac{W_1}{2} + 2'\right)^2}$
B	"#4	2	$W_{1-3} - 6'$
C	"#4	2	$W_{2-4} - 6'$
D	"#4	4	$H - 6'$
E	"#4	$2 \left[\left(\frac{W_{1-3}}{9'} \right) ** + 1 \right]$	$W_{2-4} - 4'$
F	"#4	$2 \left[\left(\frac{W_{2-4}}{9'} \right) ** + 1 \right]$	$W_{1-3} - 4'$

NOTE: VARIABLES AND DESIGNATIONS ARE AS FOLLOWS:

D (OR SPAN)	= PIPE DIAMETER (OR SPAN)
W ₁₋₃	= WIDTH OF SIDE 1 & SIDE 3
W ₂₋₄	= WIDTH OF SIDE 2 & SIDE 4
W*	= W ₁₋₃ OR W ₂₋₄ (SIDE OF ENTERING PIPE)
**	= ROUND TO NEAREST WHOLE NUMBER

CL. 'B' CONC. (yd³) = (Q1 + Q2) / 46,656 1 - Σ PIPE OPENING DEDUCTIONS
 WHERE: Q1 = [5*W₁₋₃W₂₋₄] + [(1*W₁₋₃ - 12.5)*(W₂₋₄ - 12.5)] + [(T₁ + 6")W₁₋₃W₂₋₄]
 Q2 = 12"[H - (T₁ + 6")][(W₁₋₃ - 12") + W₂₋₄]

COMMON PIPE SIZE			
CIRCULAR PIPE			ARCH PIPE
PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)	
18"	2 1/2"	0.053	22" x 13"
24"	3"	0.091	29" x 18"
30"	3 1/2"	0.138	36" x 23"
36"	4"	0.196	44" x 27"
42"	4 1/2"	0.263	51" x 31"
48"	5"	0.340	58" x 36"
54"	5 1/2"	0.427	65" x 40"
60"	6"	0.524	73" x 45"
66"	6 1/2"	0.630	
72"	7"	0.747	

GENERAL NOTES:

1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. IF PIPES ARE SKEWED MORE THAN 15° OR IF SKEWED PIPES PRODUCE CONFLICTS WITH ANOTHER OPENING, THE PIPE SHALL BE BROKEN BACK TO THE WALL OF THE JUNCTION BOX.

NOTICE TO DRAWING HOLDER

Reuser's Entireties Request

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REVISIONS				DRAWING INFORMATION	
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				DSGN: MWE	DATE: 01/2019
				DRWN: WTA	DATE: 01/2019
				CHKD:	DATE:
				QA/QC:	DATE:

38TH AVENUE PATHWAY

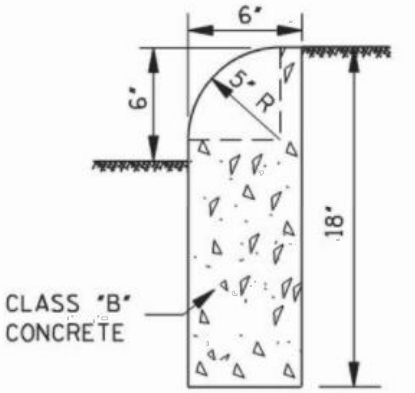
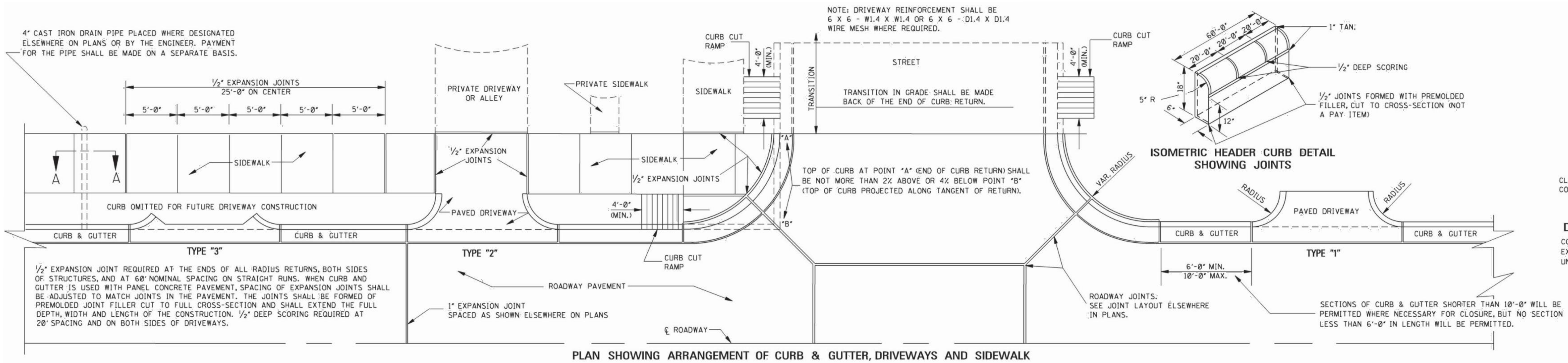
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



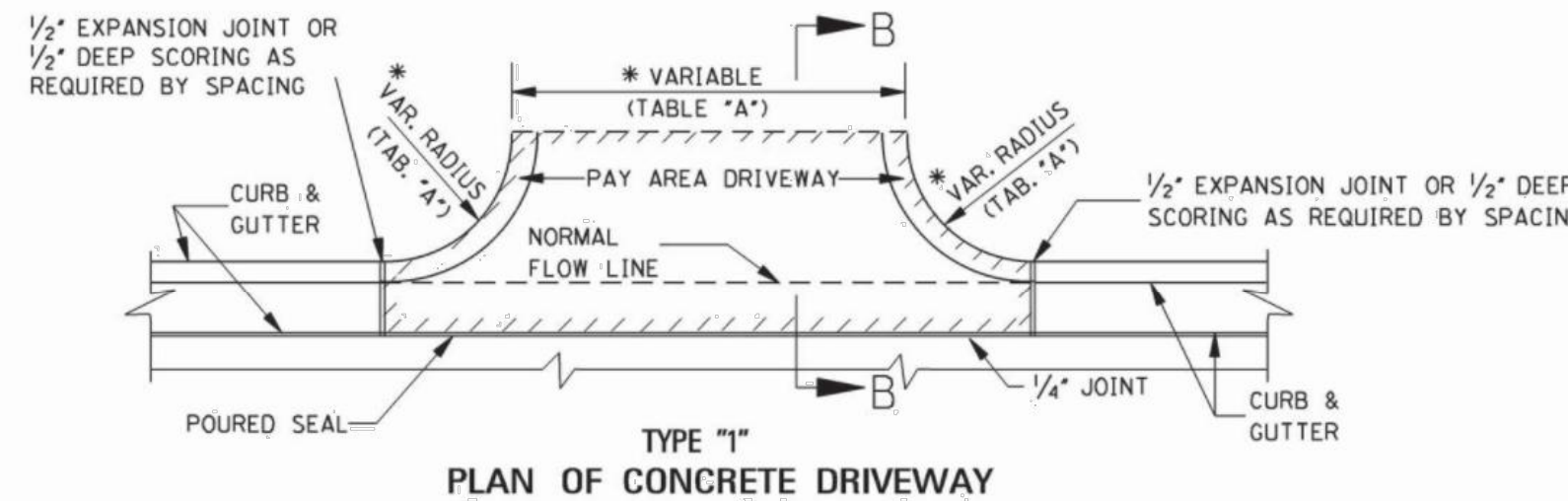
JUNCTION BOX FOR PIPE CULVERTS

WORKING NUMBER:
JB-1

DRAWING NUMBER:
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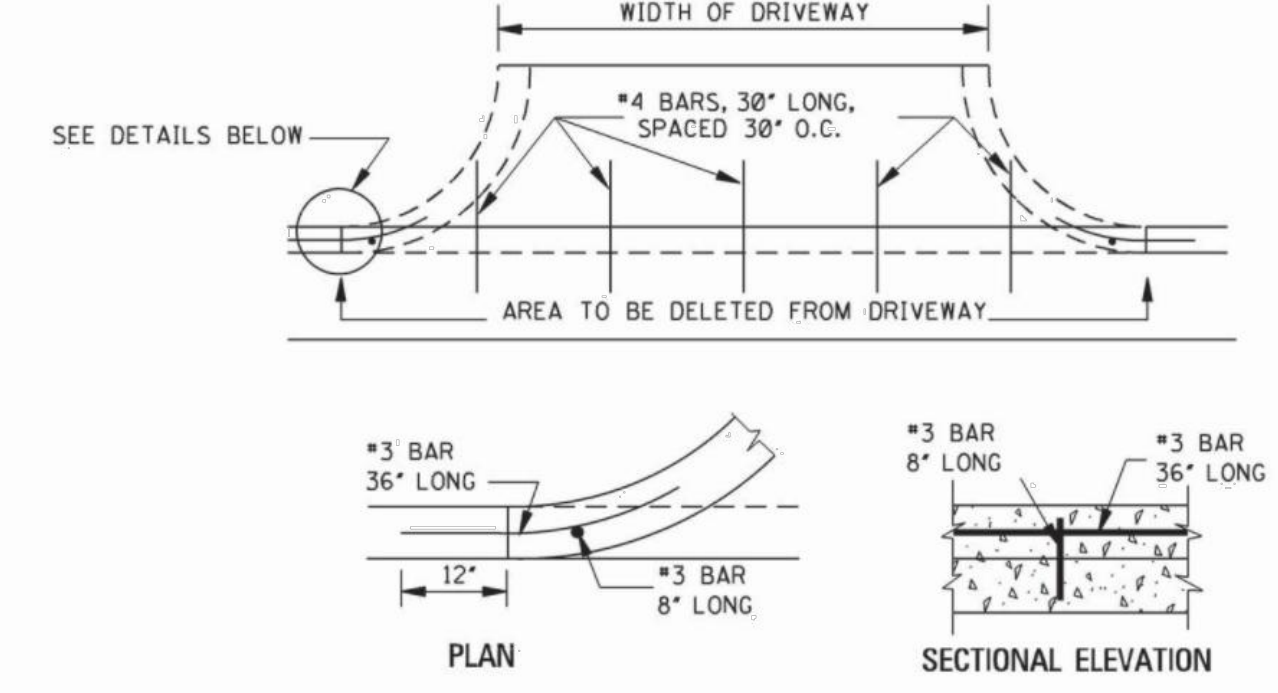
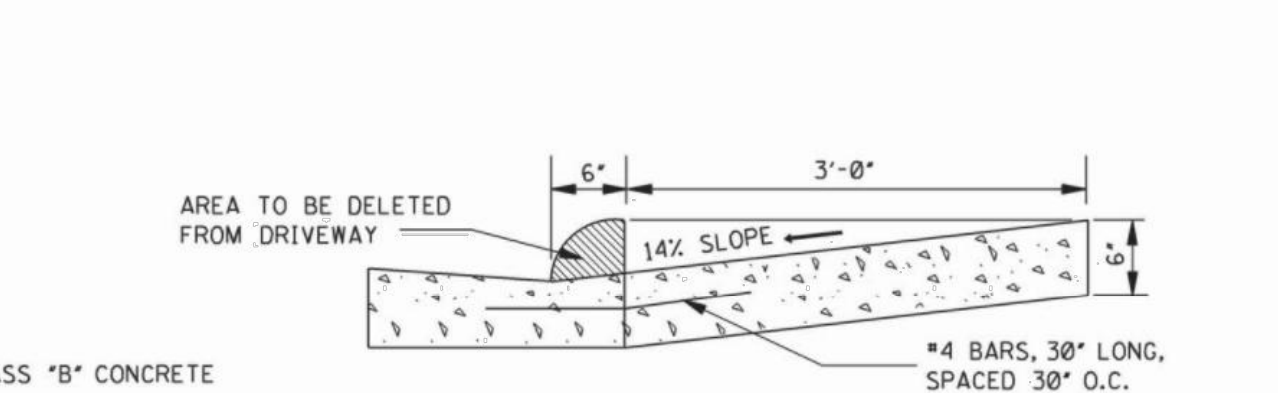
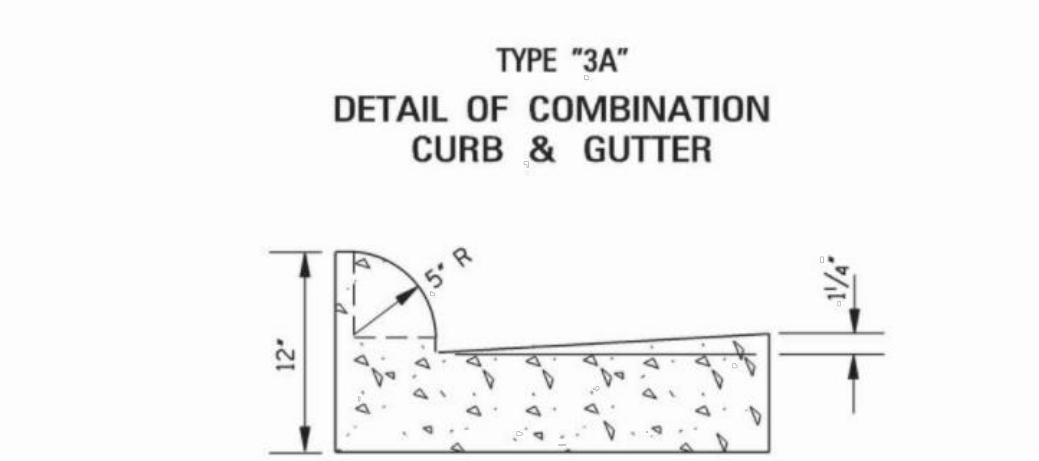
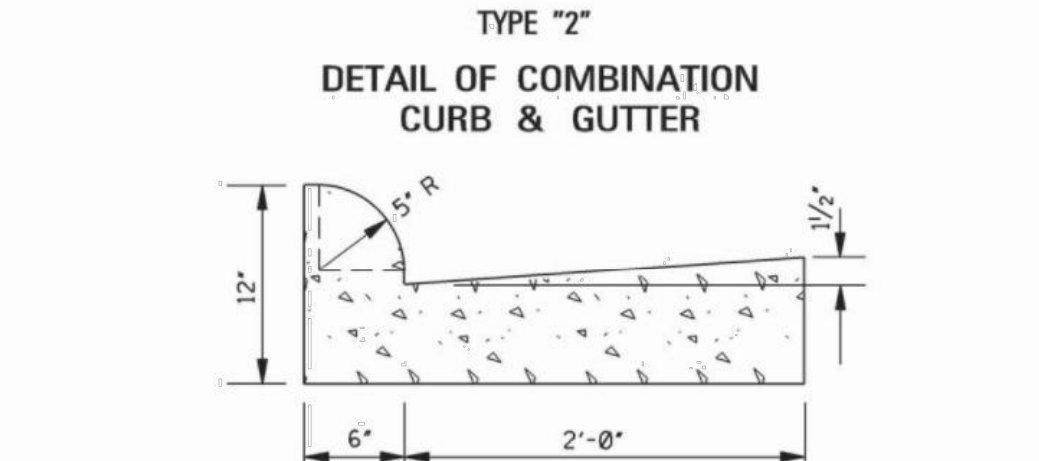
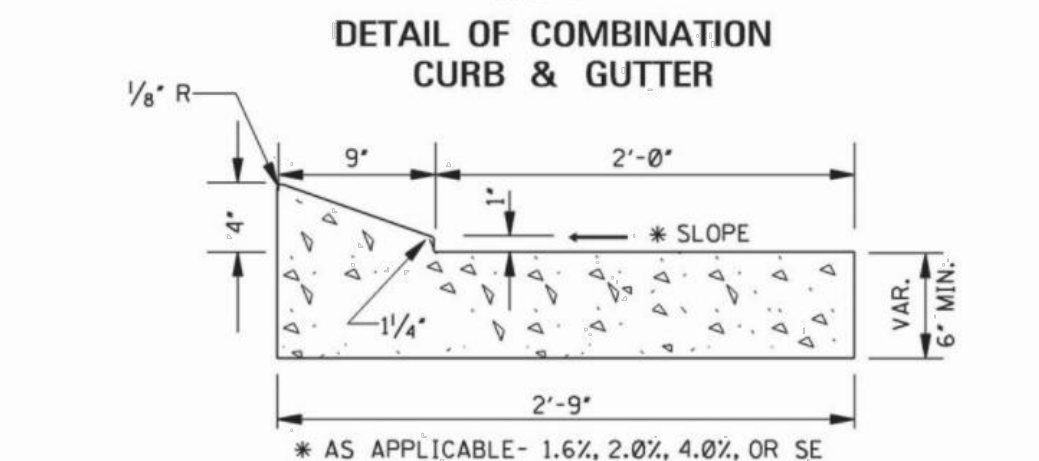
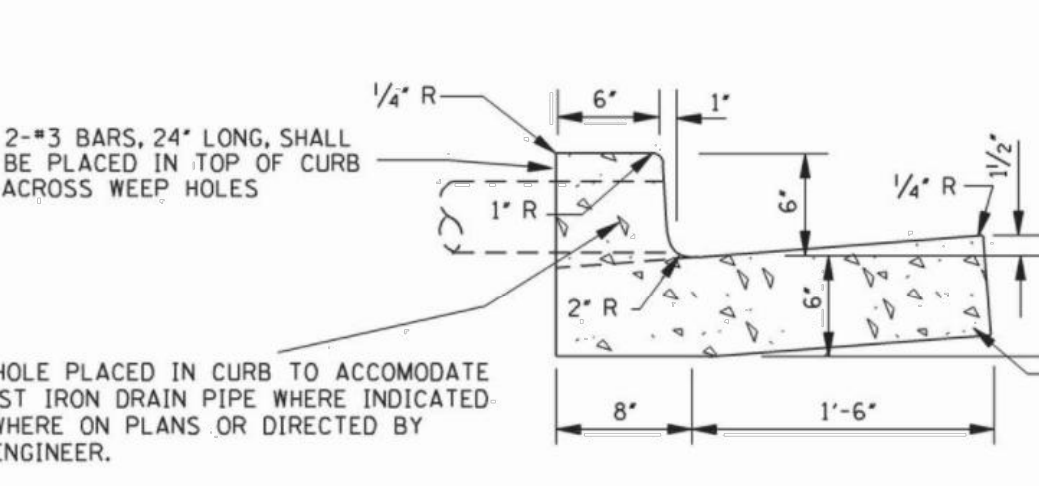
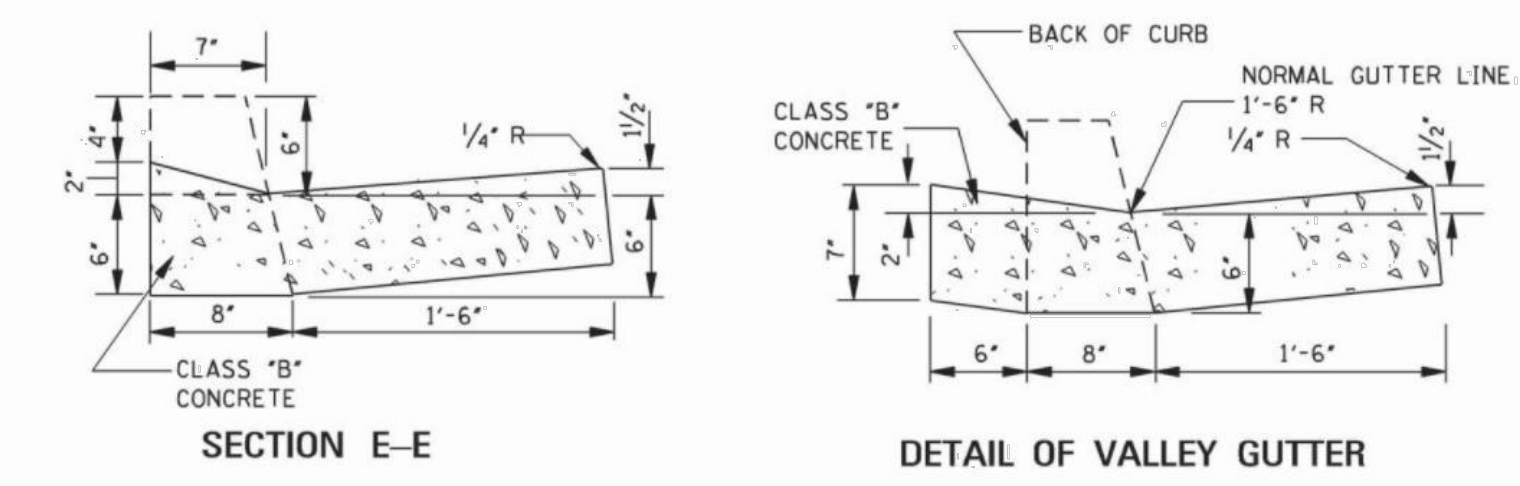
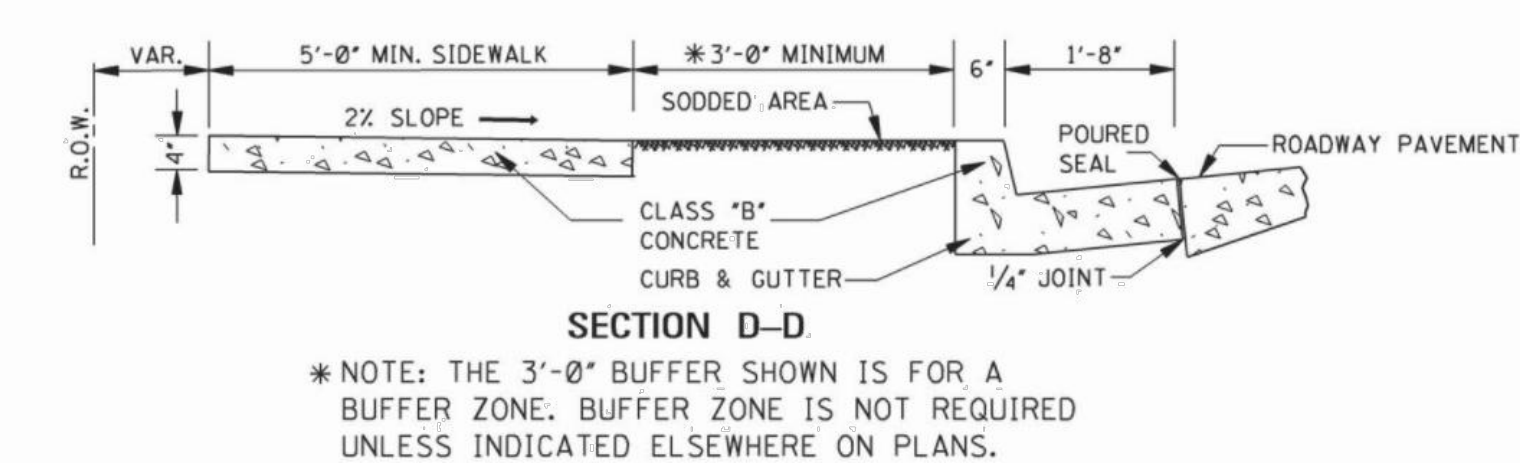
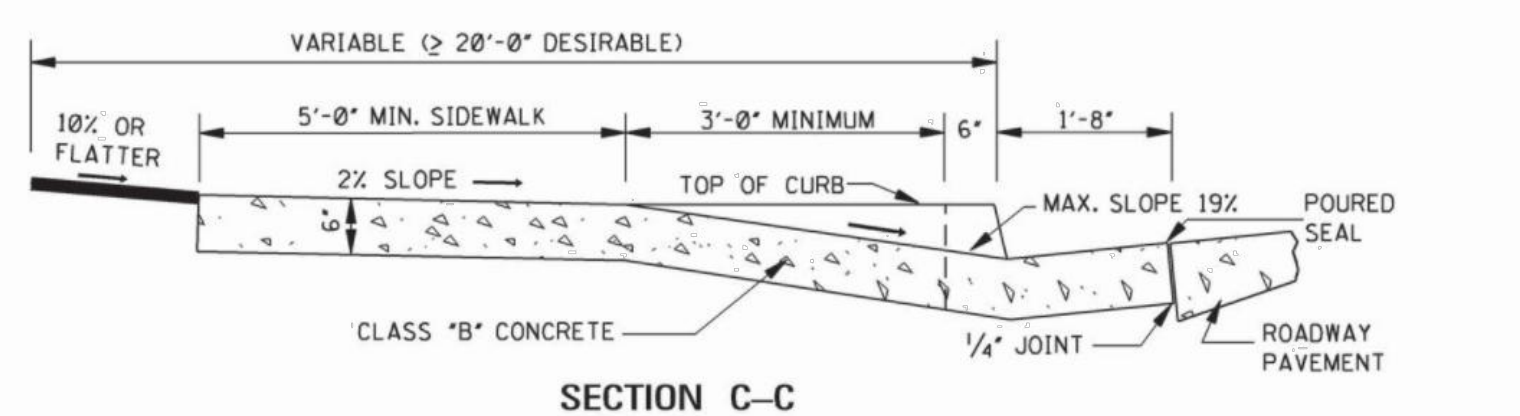
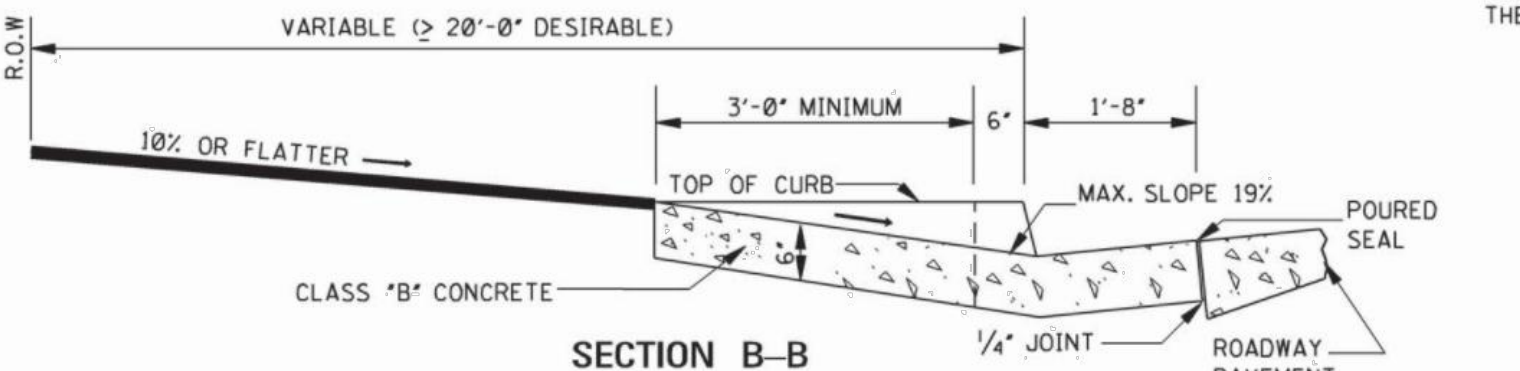
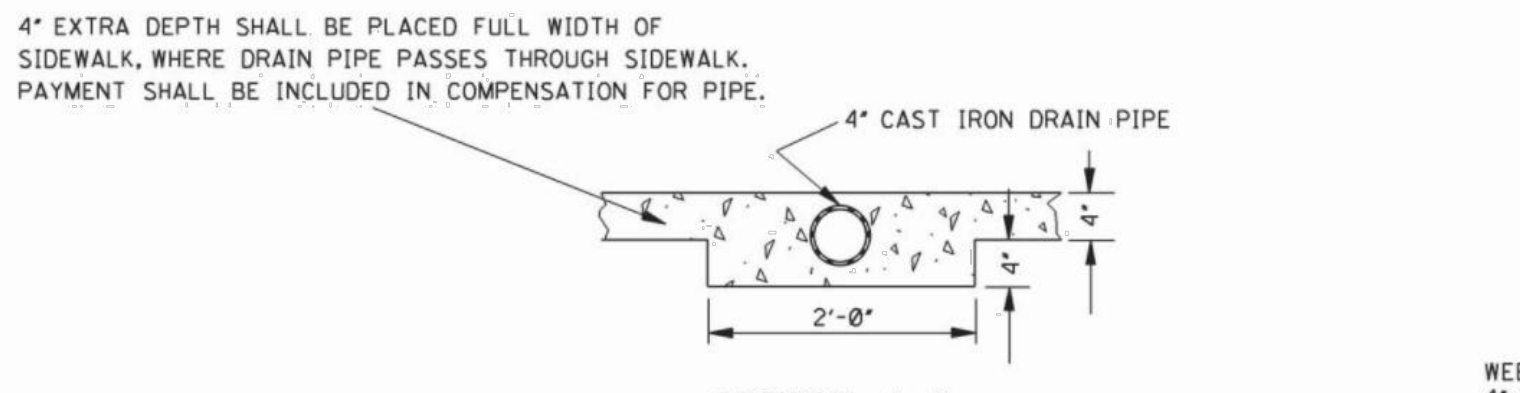
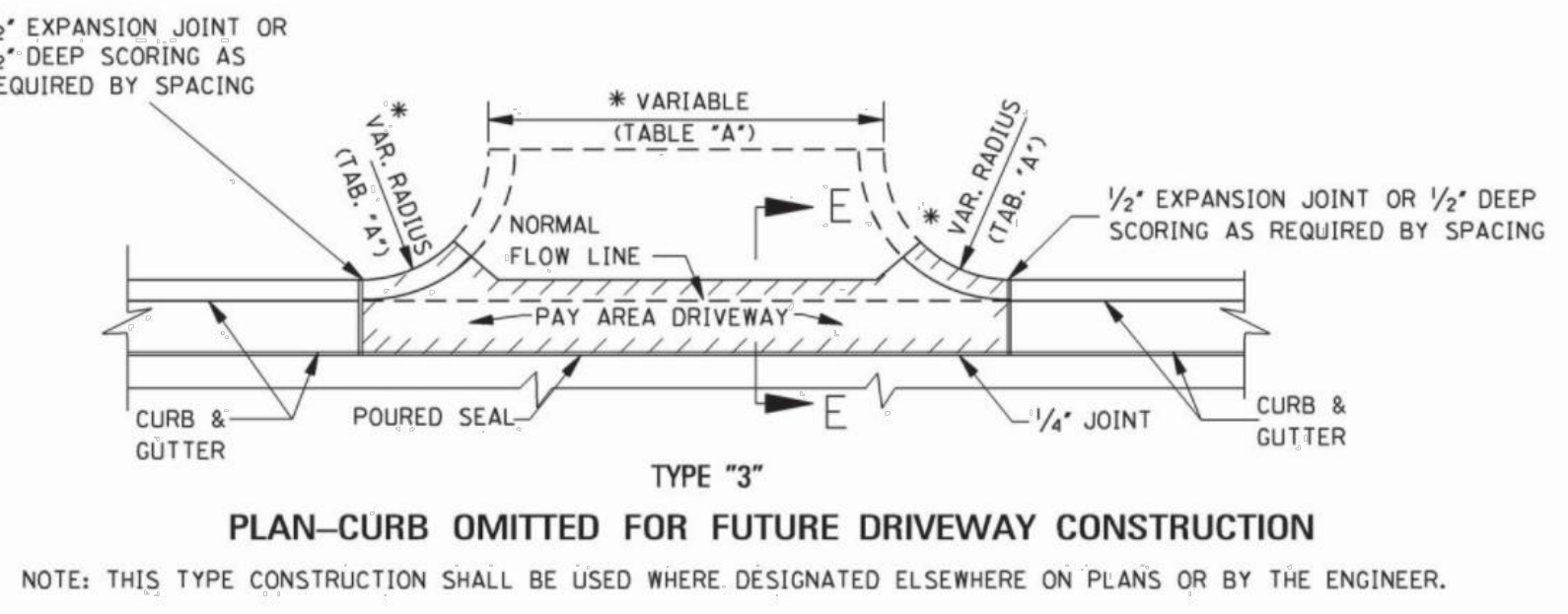
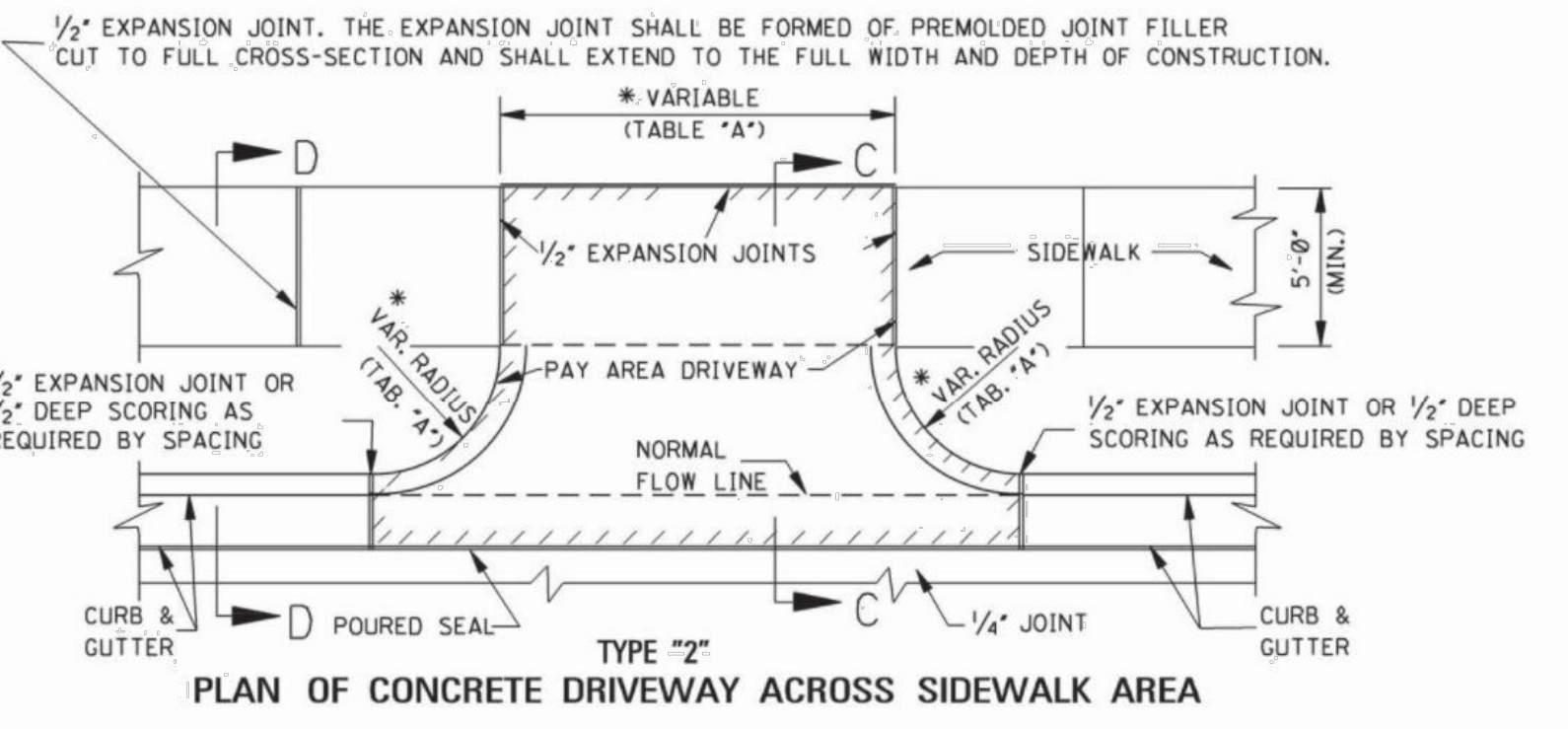


DETAIL OF HEADER CURB
CONTRACTION JOINTS REQUIRED AT 20' O.C.
EXPANSION JOINTS REQUIRED AT 60' O.C.
UNLESS OTHERWISE DIRECTED BY ENGINEER.



11.058 yd² FOR DRIVEWAY 16'-0" IN WIDTH.
0.574 yd² FOR EACH ADDED OR SUBTRACTED
FOOT OF WIDTH.
NOTE: THIS DRIVEWAY AREA EXAMPLE IS
COMPUTED ON THE BASIS OF 3'-0" RADIUS.
PAYMENT FOR CURB RADIUS SHALL BE
INCLUDED IN COMPENSATION FOR DRIVEWAY.

*TABLE "A"		
DRIVEWAY TYPE	DRIVEWAY WIDTH (ft)	CURB RETURN RADIUS (ft)
RESIDENTIAL	16'	3' - 10'
COMMERCIAL / INDUSTRIAL	30' - 50'	5' - 30'



- GENERAL NOTES:**
1. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL, UNLESS OTHERWISE SPECIFIED HEREIN, APPLY TO ALL ITEMS INCLUDED ON THIS DRAWING.
 2. TRAVERSE CONTRACTION JOINTS ARE REQUIRED AT 20' ON CENTER FOR ALL CONCRETE DRIVEWAYS THAT EXTEND PAST THE END OF THE CURB RETURN. A 1/2" WIDE EXPANSION JOINT IS REQUIRED AT THE END OF THE CURB RETURN AND AT 60' ON CENTER THROUGHOUT THE LENGTH OF THE DRIVEWAY. A LONGITUDINAL CONTRACTION JOINT IS REQUIRED FOR ALL DRIVEWAYS EXCEEDING 20' IN WIDTH.
 3. SEE SHEET CCR-1 FOR DETAILS OF CURB-CUT RAMPS.

NOTICE TO DRAWING HOLDER
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				DSGN: MWE DATE: 01/2019	
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				CHKD: DATE:	
				QA/QC: DATE:	

38TH AVENUE PATHWAY

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



DRIVEWAYS, CURB & GUTTER & SIDEWALK

WORKING NUMBER:
SD-1

DRAWING NUMBER:
41