



ADDENDUM #2

CITY OF SPRINGFIELD, MISSOURI DIVISION OF PURCHASES INVITATION FOR BID (IFB) #013-2027 FOR:

LOST HILL PARK PEDESTRIAN CROSSING

RETURN

T Todd Cox, Buyer
o City of Springfield
: Division of Purchases
218 E. Central
Springfield, MO 65802

Date Issued: 10/09/2026
Buyer's Email: tcx@springfieldmo.gov
Telephone Number: 417-864-1708
Fax Number: 417-864-1927
DUE DATE REMAINS: TUESDAY, OCTOBER 13TH, 2026 AT 3:00 P.M.

The original **Invitation for Bid #013-2027** for **LOST HILL PARK PEDESTRIAN CROSSING** documents shall remain in effect except as revised by the following changes, which shall take precedence over anything to the contrary in the specifications. **PLEASE SIGN ACKNOWLEDGEMENT ON THIS PAGE AND SUBMIT UPDATED BID FORM INCLUDED IN THIS DOCUMENT. THIS SHOULD BE SUBMITTED WITH YOUR FINAL PROPOSAL.**

The original bid document for **Invitation for Bid #013-2027** had an original closing date and time of 3:00 P.M. CST., on Wednesday, October 7th, 2026. **The bid opening date was extended in Addendum #1 until 3:00 P.M. CST., on Tuesday, October 13th, 2026.**

Exhibit #1 – Question and Answers regarding Lost Hill Park Pedestrian Crossing

Exhibit #2 – Bid Schedule

Exhibit #3 – Revised Plan Sheets

ACKNOWLEDGEMENT

Each bidder shall acknowledge receipt of this **Addendum #2 of Invitation for Bid #013-2027, titled LOST HILL PARK PEDESTRIAN CROSSING** with his/her signature affixed hereto and shall submit this Addendum and any attachments provided herein with their original bid submittal.

CERTIFICATION BY BIDDER:

SIGNATURE: _____

TITLE: _____

COMPANY: _____

DATE: _____

SUBMITTED BY: _____

Company Name

October 09, 2026

Springfield-Greene County Park Board
1923 N. Weller Ave.
Springfield, MO 65803

Re: Lost Hill Park Pedestrian Crossing

To Whom It May Concern,

The following is in response to the various questions regarding the plans and specifications.

OWN, Inc.:

Question: *On either side of the low water crossing are we just going to dig down and slope off the side three to one?*

Answer: **Please maintain 3:1 slope to transition back to existing grade around low water crossing.**

Question: *How deep does the footing portion of the lower slab extend into the ground?*

Answer: **The footing depth of the bottom slab is 3' 4". However, if solid bedrock is encountered at a shallower depth the footing shall be keyed 1' into the bedrock.**

Question: *The bid form is showing 51 cuyd of Class 4 excavation and 51 cuyd of Concrete for the bridge area. Shouldn't there be more concrete than excavation as only the lower portion of the bridge will have excavation.*

Answer: **The value of Class 4 excavation allows an additional 18" of excavation outside of the pedestrian crossing footprint to allow for formwork of the slab and footing.**

Question: *Regarding the massive sycamore tree adjacent to the creek crossing, could you put in writing that it will be necessary to preserve the tree with its roots, and if so to move the LWC and sidewalk away if necessary so as to not damage the roots.?*

Answer: **The alignment of the trail and pedestrian crossing has been revised to be located outside of the assumed root zone of the existing sycamore tree. The revised alignment is intended to preserve the trees and avoid impacts to their roots. Refer to addendum #2 plan set dated 10/09/2026.**

Clarification: **Bid Schedule Items Updated due to realignment of trail and crossing:**
Bid Item 5: Type 1 or Type 5 Aggregate for Base (4-inch thick); 588.0 SY
Bid Item 6: Subgrade Compaction(6-inch depth)(95%): 4.3 STA
Bid Item 7: Concrete Sidewalk (4-inch thick w/ geotextile fabric): 490.8 SY

**SPRINGFIELD-GREENE COUNTY PARK BOARD
 LOST HILL PARK GREENWAY TRAIL BRIDGE**

TAP-9901 (867)

ADDENDUM #2 BID SCHEDULE					
Item	Description	Units	Est. Quantity	Unit Price	Extended Total
1	Mobilization (including bonding and insurance)	LS	1.0		
2	Clearing & Grubbing	LS	1.0		
3	Removal of Improvements (General)	LS	1.0		
4	Linear Grading, Class 1	STA	2.0		
5	Type 1 or Type 5 Aggregate for Base (4-inch thick)	SY	588.0		
6	Subgrade Compaction (6-inch depth) (95%)	STA	4.3		
7	Concrete Sidewalk (4-inch thick w/ geotextile fabric)	SY	490.8		
8	Construction Signs (Sidewalk Closed)	SF	4		
9	Type III Movable Barricade - Sidewalk Closed	EA	2.0		
10	Full Depth Pavement Repair Saw Cut (for perimeter and internal saw cuts)	LF	71.0		
11	Seeding & Mulching	ACRE	0.5		
12	12-inch Compost Filter Sock	LF	117.0		
13	Type 1 Rock Ditch Liner	CY	11.0		
14	Class 4 Excavation (Low Water Crossing)	CY	52.0		
15	Reinforcing Steel (Low Water Crossing)	LBS	9,413.0		
16	Class B-1 Concrete (Low Water Crossing)	CY	52.0		
17	Asphalt Trail Repair (BP-2) (2-inch thick)	SY	20.0		

SUBTOTAL: \$ _____

MISCELLANEOUS UNIT PRICES:

Each bidder shall provide the following unit prices to be used for modification of project scope due to field conditions and for preparation of change orders subject to Owner's approval. The following values are not considered part of the base bid or basis of award.

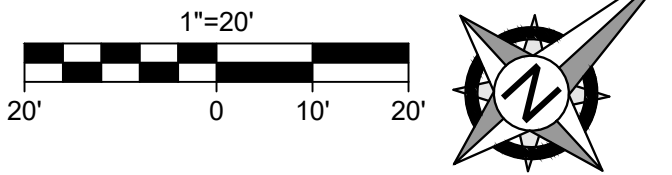
Line	Description	Units	Est. Quantity	Unit Price
A.	Excavation: CUT	CY	1	
B.	Excavation: FILL	CY	1	



1



1 RIGHT-OF-WAY PLAN - LOST HILL PARK TRAIL: STA. 0+00 - 4+77
SCALE: 1" = 20'



NOTE: ALL PROPOSED WORK TO TAKE PLACE IN EXISTING PUBLIC PARK NO ADDITIONAL RIGHT-OF-WAY PROPOSED. PROPOSED WORK IS REQUESTED BY PARK OWNERSHIP.



SYMBOLS LEGEND	
	APPROX. RIGHT OF WAY LINE
	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	PROPOSED SIDEWALK
	RIGHT OF WAY (CITY)
	PERMANENT EASEMENT
	TEMPORARY CONSTRUCTION EASEMENT

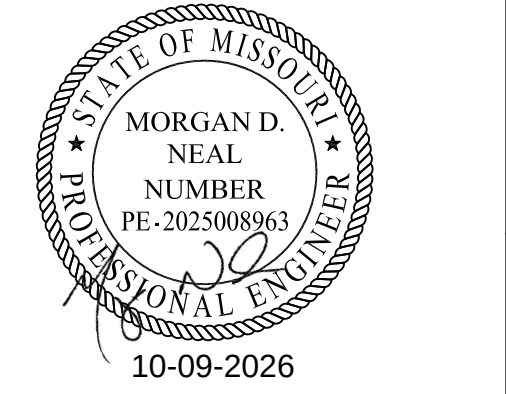


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FORMERLY ANDERSON ENGINEERING

SPRINGFIELD-GREENE
COUNTY PARK BOARD
TAP-9901 (867)
LOST HILL PARK
GREENWAY TRAIL
BRIDGE
LOST HILL PARK
SPRINGFIELD, MO

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #2	10/09/2026

DRAWING INFORMATION
PROJECT NO: 24SP40024
DRAWN BY: CBD
CHECK BY: MDN
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 10/09/2026



ISSUED BY: MORGAN NEAL
LICENSE NO: PE No. 2025008963
A licensed Missouri
Engineering Corporation
COA 00062

SHEET TITLE
RIGHT-OF-WAY
PLAN

SHEET NUMBER
2



**SPRINGFIELD-GREENE
COUNTY PARK BOARD
TAP-9901 (867)
LOST HILL PARK
GREENWAY TRAIL
BRIDGE**

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	10/09/2026

A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the text "MORGAN D. NEAL", "NUMBER", and "PE-2025008963". A signature is written across the seal, and the date "10-09-2026" is printed at the bottom.

A licensed Missouri
Engineering Corporation
COA 00062

SIDEWALK PLAN & DETAILS

3



1"=20'

A graphic scale bar with a black and white checkered pattern. It is divided into three sections: the first section is 10 feet long, the second is 10 feet long, and the third is 10 feet long. The total length is 30 feet. The scale is labeled with 0, 10, and 20 feet.

1 NEW ALIGNMENT

C1 CONCRETE SIDEWALK, 4" THICK (10' WIDE) W/ MEDIUM DUTY WOVEN GEOTEXTILE - REFER TO DETAIL 2 THIS SHEET AND MODOT STD. PLAN 608-10.00.

C2 12" COMPOST FILTER SOCK - REFER TO DETAIL 3 THIS SHEET AND MODOT STD. PLAN 806.10

C3 WHERE PROPOSED TRAIL JOINS EXISTING TRAIL, SAWCUT AND/OR SET FORMS A
NECESSARY TO CREATE A CLEAN EDGE. FINISHED TRAIL TO BE LEVEL W/ EXISTING

C4 12' REIN. CONC. LOW RISE CREEK CROSSING REFER TO SHEETS 4-9

TOP EL 1111.33' APPROX. FL 1109'

(C5) PROVIDE APPROX. 4 SY OF RIBBON PAD - REFER TO DETAIL 4 THIS SHEET

10. ALL WORK, MATERIALS, AND DETAILS SHALL BE IN ACCORDANCE WITH THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND	11. PROVIDE POSITIVE DRAINAGE FROM ALL IMPROVED AREAS SO THAT RUNOFF DRAINS TO DRAIN WAYS.
	12. ANY DAMAGE TO EXISTING STRUCTURES, VEGETATION

- ALL WORK, MATERIALS, AND DETAILS SHALL BE IN ACCORDANCE WITH THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD SPECIFICATIONS FOR THE APPLICABLE CITY AND/OR COUNTY. CONTRACTORS SHALL OBTAIN A COPY OF THESE STANDARDS TO ENSURE COMPLIANCE. EXISTING UTILITIES AND UNDERGROUND INSTALLATIONS HAVE BEEN LOCATED TO THE GREATEST EXTENT PRACTICAL THROUGH REVIEW OF CONSTRUCTION PLANS AND SURFACE OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
- THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
- NO WORK SHALL COMMENCE UNTIL ALL NECESSARY PERMITS ARE OBTAINED BY THE OWNER AND/OR CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PROVISIONS OF ALL LINE AND GRADE STAKES WITH SURVEYOR. CONTRACTOR IS RESPONSIBLE FOR ALL STAKING, INCLUDING PROVIDING STAKES. OWNER IS NOT RESPONSIBLE FOR ANY STAKING.
- CONTRACTOR SHALL REMOVE, PRESERVE, AND REPLACE ALL SIGNS, MAIL BOXES, FENCES, METAL FLAG POLE BASES AND THE LIKE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS. THIS WORK SHALL BE CONSIDERED AN INHERENT PART OF CONSTRUCTION. ALL TRAFFIC WAYS INCLUDING DRIVEWAYS, ALLEYWAYS, ETC., SHALL REMAIN ACCESSIBLE TO RESIDENTIAL AND EMERGENCY VEHICLES DURING PROJECT DURATION.
- ALL CONSTRUCTION AND EXCAVATION ACTIVITIES SHALL BE CONFINED TO EASEMENTS, ROAD RIGHT-OF-WAY, AND/OR WORK AREA LIMITS. FIELD VERIFY LIMITS WITH OWNER AND ENGINEER.
- CONTRACTOR SHALL RAISE OR LOWER ALL AFFECTED MANHOLE RIMS AND VALVE BOXES IN THE WORK AREA TO MATCH PROPOSED GRADE.
- ALL AREAS DISTURBED BY CONSTRUCTION ARE FIRST TO BE FIRM GRADED AND THEN FOLLOWED BY SEED AND STRAW MULCH OVER MIN. 4" TOPSOIL UNLESS OTHERWISE NOTED. TOPSOIL MAY STOCKPILED FROM SITE OR HAULED IN AS REQUIRED.
- PROVIDE POSITIVE DRAINAGE FROM ALL IMPROVED AREAS SO THAT RUNOFF DRAINS TO DRAIN WAYS.
- ANY DAMAGE TO EXISTING STRUCTURES, VEGETATION, OR IMPROVEMENTS RESULTING FROM NEW CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXCAVATION, FILL, OR DITCH GRADING ASSOCIATED WITH CONSTRUCTION OF PROPOSED SIDEWALK, INCLUDING REMOVAL AND DISPOSAL OF ALL WASTE MATERIALS, WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. ALL EXCESS DIRT MATERIAL TO BE HAULED TO A LOCATION DESIGNATED BY THE CITY. ALL CONCRETE AND ASPHALT DEBRIS TO BE DISPOSED OF BY THE CONTRACTOR PER APPLICABLE REGULATIONS.
- ALL SIDEWALKS AND ADA RAMPS SHALL BE IN ACCORDANCE WITH ADA REGULATIONS.
- CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT. EROSION CONTROL DEVICES SHALL BE INSTALLED THROUGHOUT THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
- ALL TRENCHES, WHICH LIE UNDER PROPOSED PAVEMENT, OR LIE WITHIN TWO FEET OF PROPOSED PAVEMENTS, SIDEWALK OR CURB, SHALL BE BACKFILLED TO PAVEMENT SUB-GRADE WITH CLEAN GRANULAR BACK FILL.
- FILL AND SUB-GRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
- PROVIDE SAW CUT AT ALL MATCH POINTS WITH EXISTING PAVEMENT (ASPHALT OR CONCRETE).
- ALL DISTURBED DRIVES ARE TO BE SAW CUT & REPAIRED WITH A SURFACE EQUAL OR SUPERIOR TO THAT WHICH IS IMMEDIATELY ADJACENT.
- CONSTRUCTION AND OF SIMILAR TYPE, A 3" MIN. ASPHALT SURFACE OVER 6" BASE, OR 7" CONCRETE OVER 4" BASE MINIMUM IS REQUIRED AS A MINIMUM FOR RESIDENTIAL DRIVE SURFACES. USE 8" MINIMUM CONCRETE FOR COMMERCIAL DRIVES. THE QUALITY AND TYPE OF PAVEMENT SHALL EQUAL OR EXCEED THAT WHICH IS DISTURBED. SIDEWALKS ACROSS DRIVES SHALL MEET ADA, MODOT AND DETAIL REQUIREMENTS, INCLUDING A MAX. CROSS SLOPE OF 1.9%.
- CONTRACTOR IS TO BE FAMILIAR WITH AND RESPONSIBLE FOR CONFORMANCE WITH OSHA GUIDELINES, TRAINING, AND COMPLIANCE.
- ALL MATERIALS TO BE PROVIDED PER PROJECT SPECIFICATIONS AND SUPPLIERS GUIDELINES. CONTRACTOR TO VERIFY REQUIREMENTS AND SHALL PROVIDE AS REQUIRED FOR COMPLETE AND PROPER FUNCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP ROCK, MUD, AND OTHER DEBRIS FROM ACCESS STREETS CAUSED BY CONSTRUCTION EQUIPMENT THROUGHOUT THE DAY AND AT THE END OF EACH WORK DAY.
- TRAFFIC CONTROL SHALL BE PROVIDED PER THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MODOT TRAFFIC CONTROL FOR FIELD OPERATIONS MANUAL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SLOPES, ELEVATIONS AND GRADES. THE MIN. ALLOWABLE GRADE SHALL NOT BE LESS THAN 0.5% MAX. ALLOWABLE SLOPES CONSTRUCTED OF UNREINFORCED EARTHEN MATERIAL SHALL NOT BE GREATER THAN 3:1. PROVIDE EROSION CONTROL AND SLOPE STABILIZATION PLAN. SIGNIFICANT VARIATIONS FROM THIS PLAN SHOULD BE APPROVED BY THE ENGINEER AND MODOT.
- TESTING IS REQUIRED BY PROJECT ENGINEER FOR STRENGTH OF CONC., STABILITY OF BASE AND FILL MATERIALS PER MODOT STANDARD SPECIFICATIONS. CONC. SLUMP & AIR ENDS 15 CY MIN. AND TEST CYL. FOR STRENGTH EACH 30 CY MIN. OR ONCE PER DAY OF PLACEMENT AS DESIGNATED BY ENGINEER.
- BASEROCK: ONE COMPACTION TEST PER 30 CY OF PLACEMENT OR ONCE PER DAY OF PLACEMENT IN LOCATION DESIGNATED BY ENGINEER.
- CONTRACTOR SHALL ARRANGE AND COORDINATE REQUIRED TESTING WITH THE PROJECT ENGINEER 48 HOURS PRIOR TO TESTING. RETESTING DUE TO FAILURE TO BE AT CONTRACTOR'S EXPENSE.
- INITIAL TESTING IS TO PAID FOR BY CONTRACTOR. RETESTING SHALL BE PAID FOR BY THE CITY OR CONTRACTOR.
- ALL SLOPES SHALL BE STABILIZED.
- DRAINAGE CULVERTS ARE TO BE PROVIDED AS INDICATED WITH A MINIMUM SLOPE OF 0.75% APPROACH AND DISCHARGE GRADES SHALL BE ADJUSTED IN FIELD TO DRAIN.
- TRIM ALL TREES OVERHANGING SIDEWALK TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 96 IN (8 FT). FIELD VERIFY LOCATIONS. DISPOSE OF ALL REMOVED LIMBS.
- MISSOURI ONE CALL SYSTEM, INC.
1-800-344-7483

MAINTAIN 1' MIN. OF LEVEL GROUND BOTH SIDES OF SIDEWALK

10' UNLESS OTHERWISE NOTED

COMPACT SLOPE TO DRAIN 4:1 MAX., SLOPE. TOP W/2' MIN. TOP SOIL, SEED MULCH

1' MIN.

2% MAX. CROSS-SLOPE

SPECIAL NOTE:
ALL SIDEWALK AND CURB RAMPS MUST COMPLY WITH FEDERAL LAWS AND ADA GUIDELINES. NON-COMPLIANT WORK WILL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

CONCRETE SIDEWALK THICKNESS:
TYPICAL: 4"
ACROSS COMMERCIAL DRIVEWAY: 8"

4" TYPE 1 AGGREGATE COMPACTED TO 95% STANDARD PROCTOR DENSITY. EXTEND 6" PAST EDGE OF SIDEWALK.

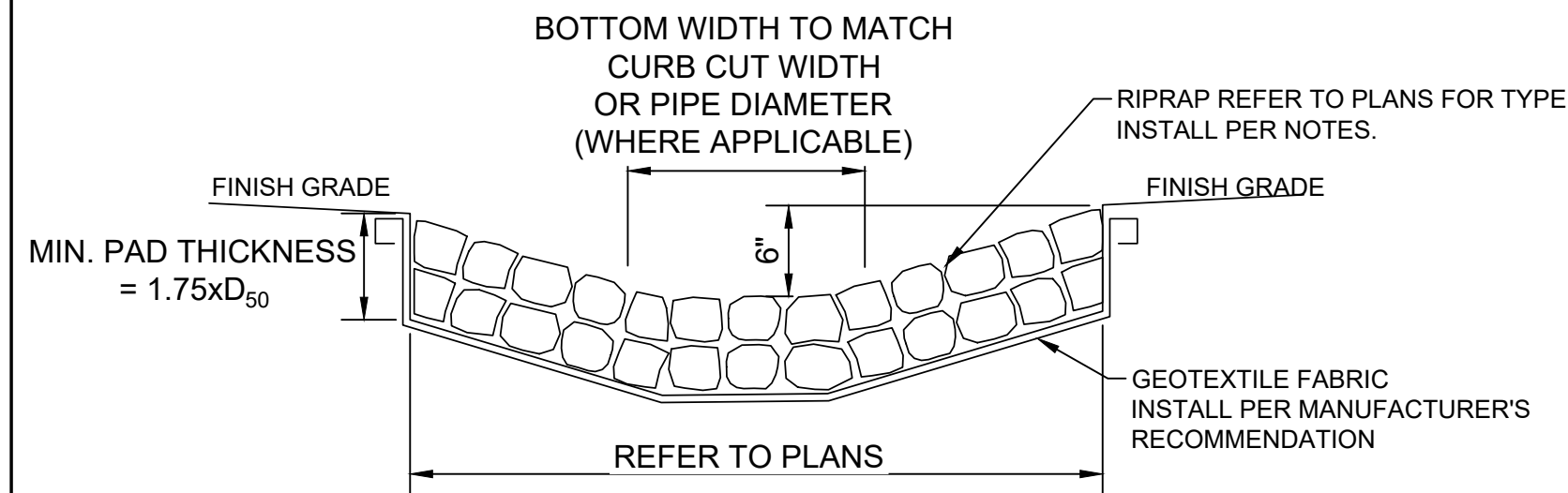
MEDIUM DUTY WOVEN GEOTEXTILE FABRIC INSTALL PER MANUFACTURER'S RECOMMENDATION.

SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

NOTE:

1. ALL SIDEWALKS ARE TO BE BUILT PER THE CURRENT EDITION OF THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION AND APPLICABLE CITY AND/OR COUNTY DESIGN GUIDELINES FOR PUBLIC IMPROVEMENTS.
2. PROVIDE CONTROL JOINTS AT 8' O.C.
3. PROVIDE EXPANSION JOINTS EVERY 100' AND 18" ON EACH SIDE OF DRIVEWAYS.
- INTERSECTING WALKS, MATCH POINTS WITH EXISTING PAVEMENTS, AND LOCATIONS AS SHOWN ON PLANS.
4. CONCRETE DRIVEWAYS - IF CROSS-SLOPE < 2%, EXISTING PAVEMENT IS ACCEPTABLE AS SIDEWALK. IF CROSS-SLOPE > 2%, DRIVEWAY MUST BE SAWED AND REMOVED AS REQUIRED TO INSTALL SIDEWALK WITH A MAXIMUM 2% CROSS-SLOPE RELATIVE TO NEAREST JOINT OR CURB SIDE OF DRIVEWAY.
5. ASPHALT DRIVEWAYS - INSTALL SIDEWALK ACROSS DRIVEWAY AS SHOWN IN PLAN.
6. NO SIDEWALK CROSS-SLOPE CAN EXCEED 2%, INCLUDING SIDEWALKS ACROSS DRIVEWAYS.
7. THE MAXIMUM RUNNING SLOPE OF SIDEWALKS IS < 5%. IF THE RUNNING SLOPE ON A SIDEWALK NOT CLASSIFIED AS A CURB RAMP EXCEEDS 5%, HANDRAILS WILL BE REQUIRED.
8. THE MAXIMUM RUNNING SLOPE ON A SIDEWALK CLASSIFIED AS A CURB RAMP IS 8.33% (7.50% MAX. PREFERRED).

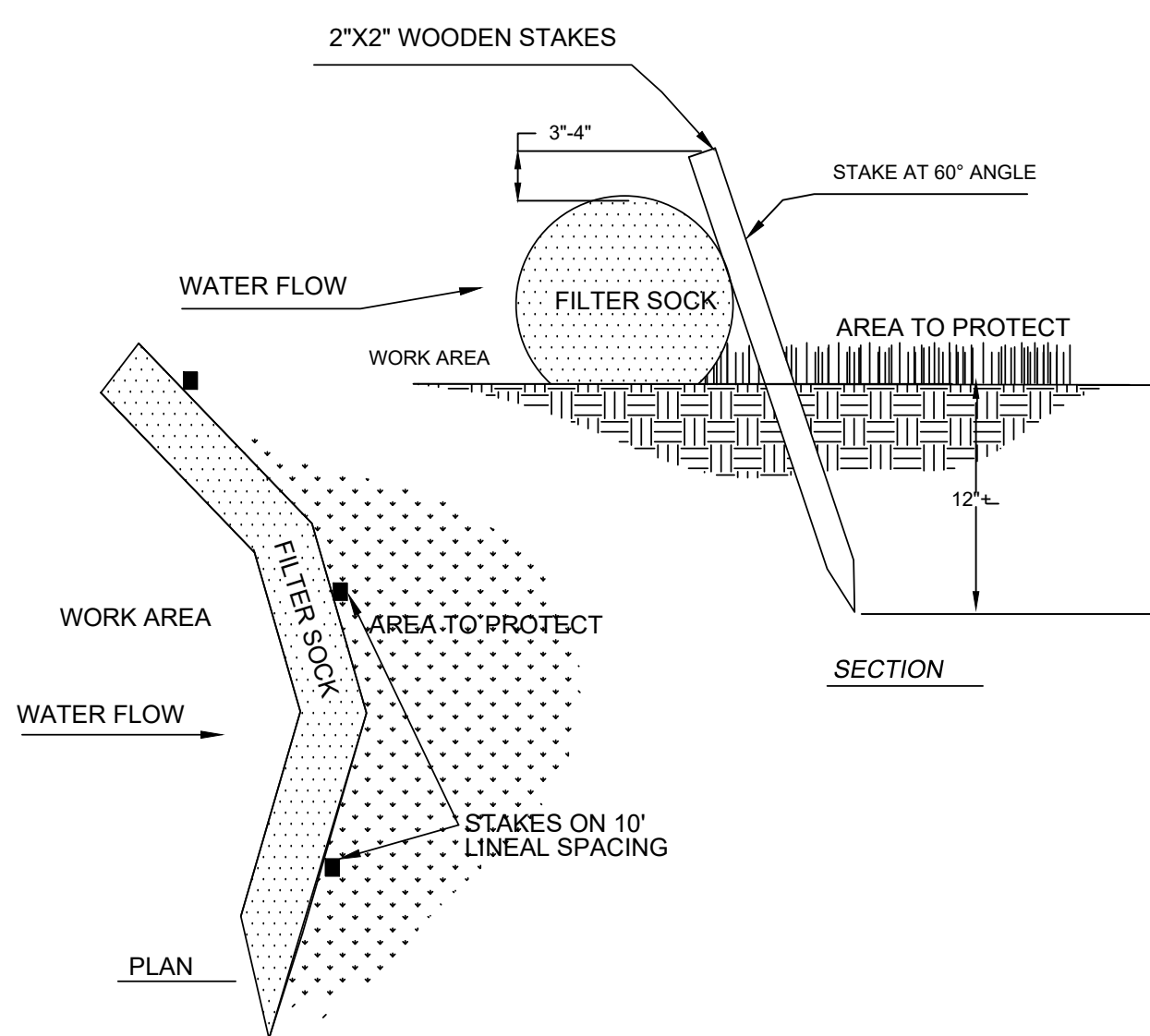
SCALE: NOT TO SCALE



NOTES

1. HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN.
2. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL.
3. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED.
4. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 50-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH.
5. STONES SHALL BE A MINIMUM OF 12" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.
6. RIPRAP SHOULD HAVE NO SLIGHTER FOR THE LENGTH OF THE RIPRAP PAD.
7. FINISHED GRADE ADJACENT TO THE RIPRAP PAD SHALL BE A MINIMUM OF 6" ABOVE THE RIPRAP PAD BOTTOM.

SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

TURF REINFORCEMENT SHALL BE INSTALLED ON ALL SLOPES THAT EXCEED 3H:1V. THE TURF REINFORCEMENT MAT SHALL BE INSTALLED AND STAPLED AS PER THE MANUFACTURER'S SPECIFICATIONS.

BOULDER SIZE (Dr)	Dg
18"	12"
24"	18"
30"	22"
36"	27"
42"	31"
60"	45"
66"	49"
72"	54"

5 BARREL (8'-6" x 21") CONCRETE BOX CULVERT

GENERAL NOTES:

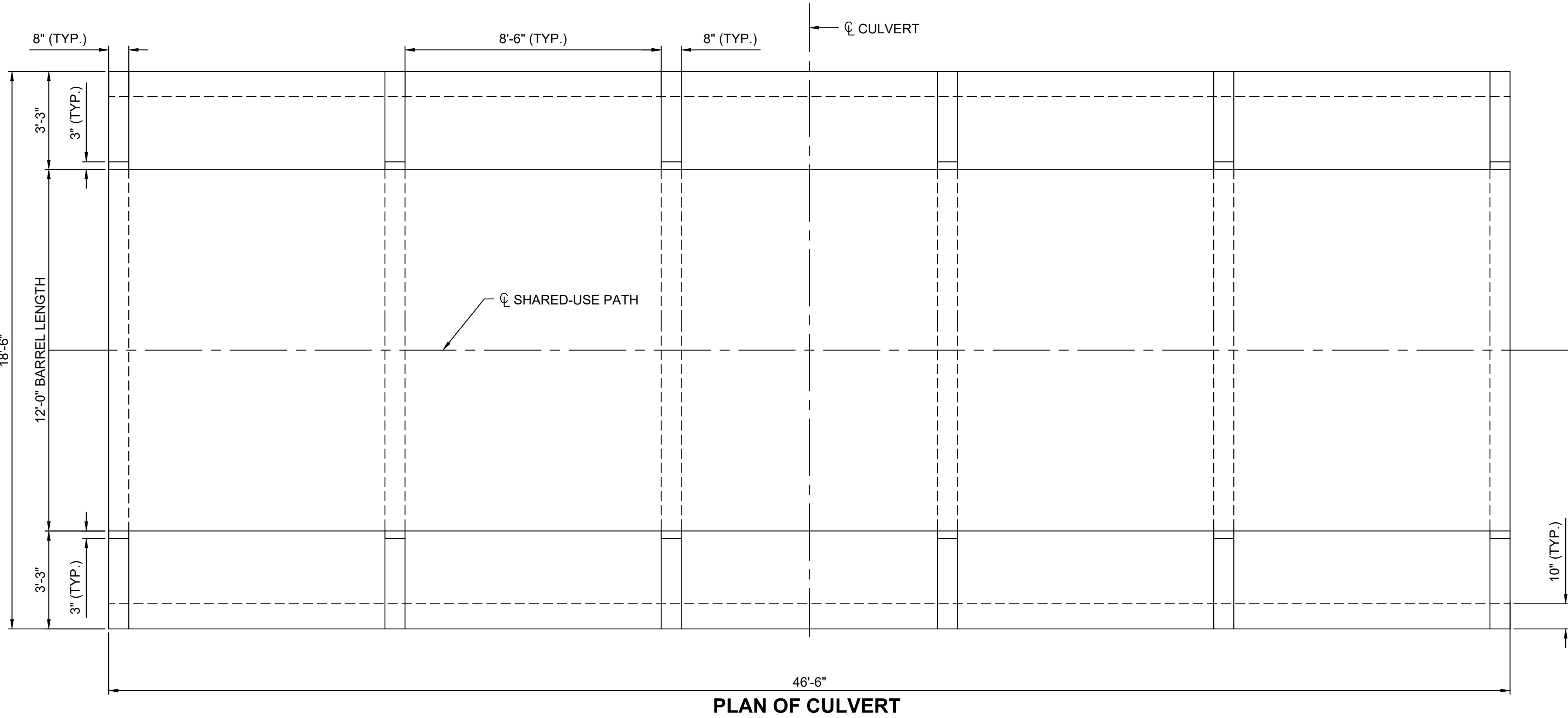
DESIGN LOADING:
VEHICULAR = HL-93 MINUS LANE LOAD, EARTH = 120 LB/CF
EQUIVALENT FLUID PRESSURE = 30 LB/CF (MIN.), 60 LB/CF (MAX.)

DESIGN UNIT STRESSES:
CLASS B-1 CONCRETE (CULVERT) f_c = 4,000 PSI
REINFORCING STEEL (ASTM A615 GRADE 60) f_y = 60,000 PSI

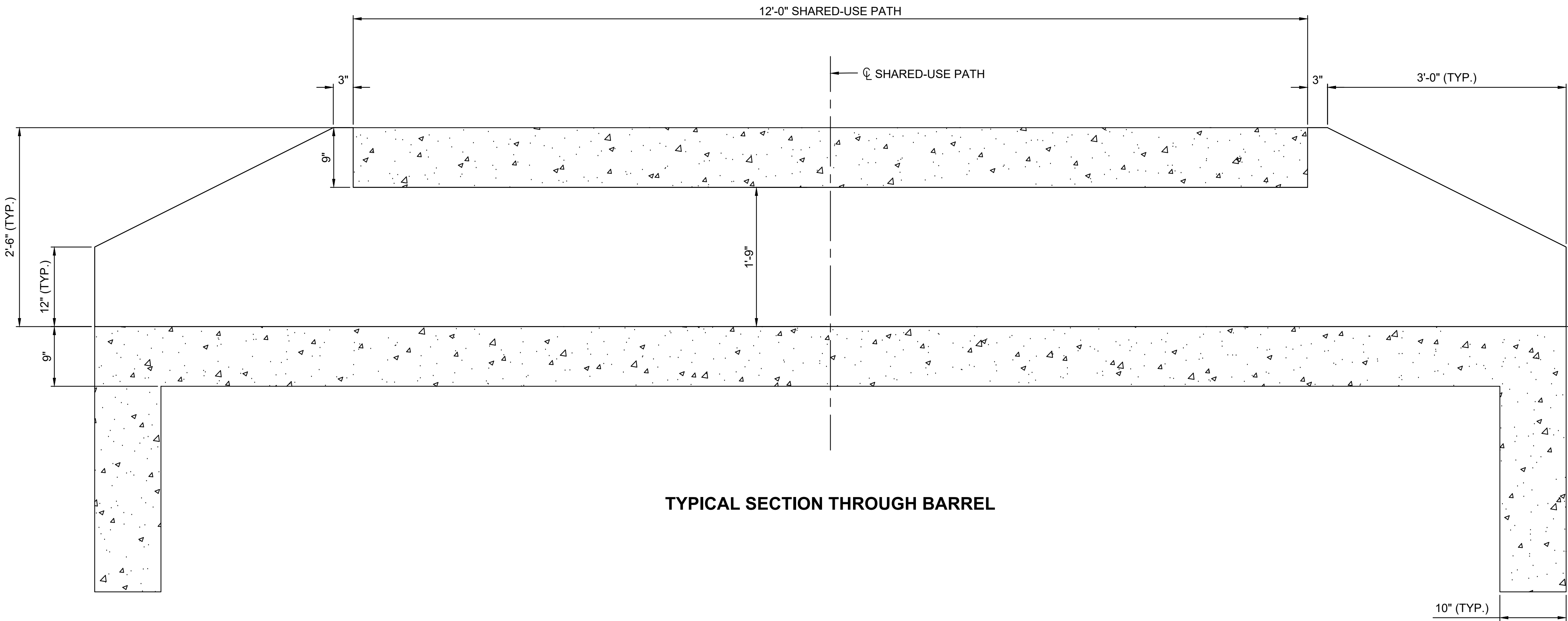
MISCELLANEOUS:
FOR REINFORCEMENT DETAILS, SEE SHEETS 5, 6 AND 7.
DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

CHANNEL BOTTOM SHALL BE GRADED WITHIN RIGHT OF WAY FOR
TRANSITION OF CHANNEL BED TO CULVERT OPENINGS. CHANNEL BANKS
SHALL BE TAPERED TO MATCH CULVERT OPENINGS.

ESTIMATED QUANTITIES		FINAL
CLASS 4 EXCAVATION	CY	52.0
CLASS B-1 CONCRETE (LOW WATER CROSSING)	CY	52.0
REINFORCING STEEL (LOW WATER CROSSING)	LB	9413



PLAN OF CULVERT



TYPICAL SECTION THROUGH BARREL

APPROX. FLOW LINE ELEV.
1109.0. VERIFY ELEVATION AND
ADJUST BASED ON FIELD
CONDITIONS. SLOPE TO DRAIN.



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REVISIONS		
NO.	DESCRIPTION	DATE

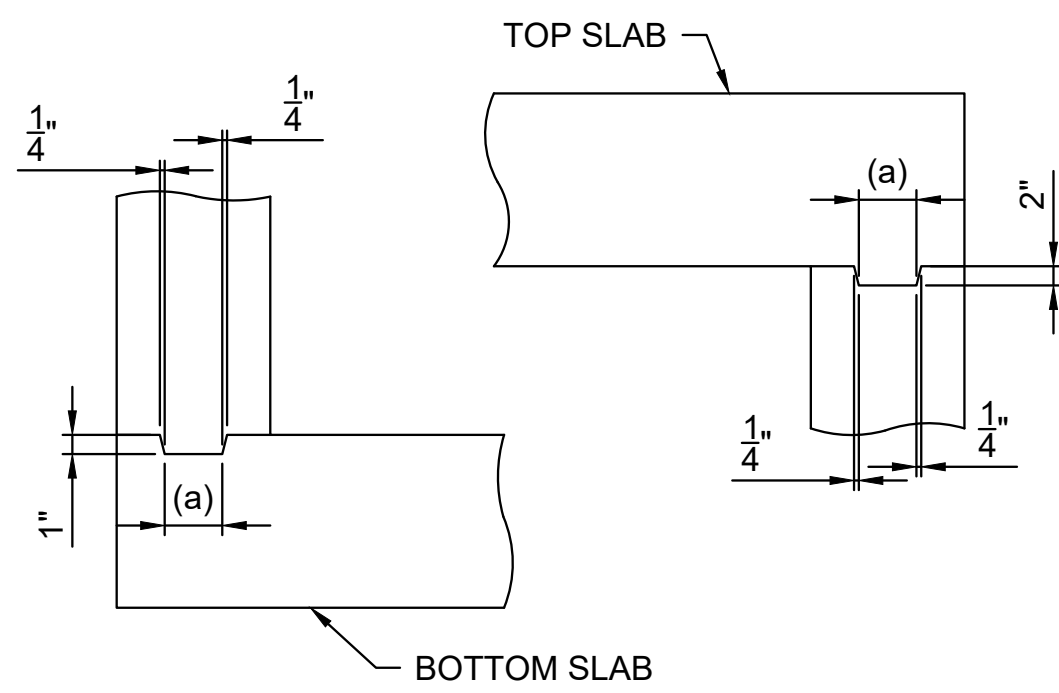
DRAWING INFORMATION
PROJECT NO: 24SP40024
DRAWN BY: CBD
CHECK BY: MDN
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 8/26/2026



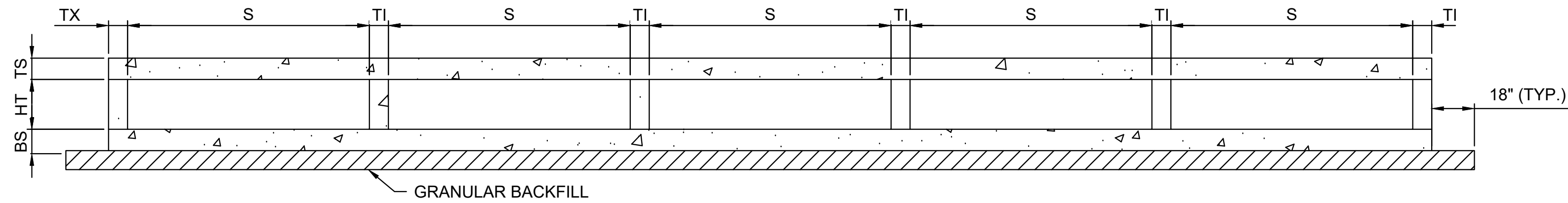
ISSUED BY: MORGAN NEAL
LICENSE NO: PE No. 2025008963
A licensed Missouri
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COA 00062

SHEET TITLE
LOW WATER
CROSSING PLAN
& PROFILE

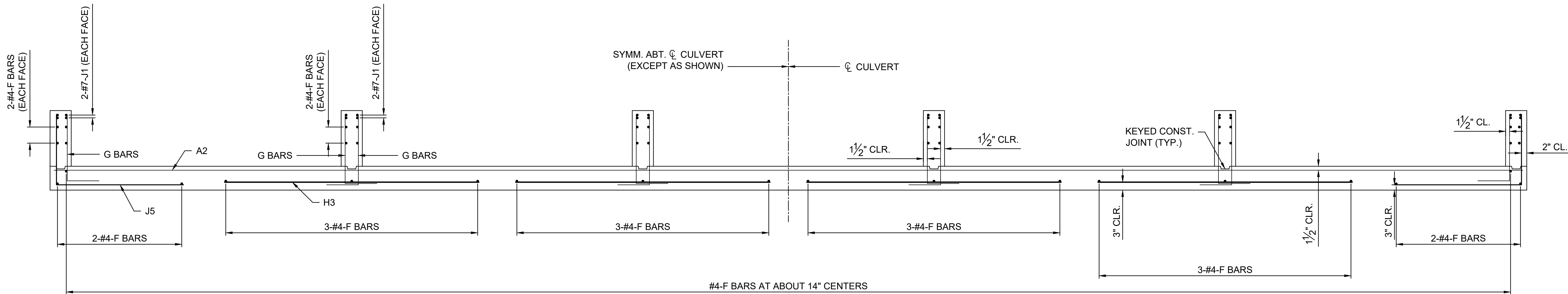
SHEET NUMBER
4



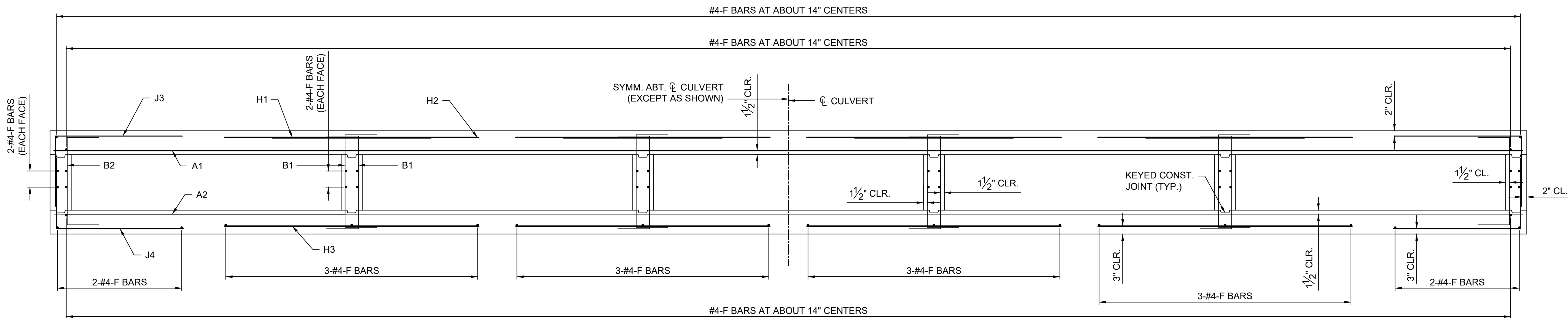
KEYED CONSTRUCTION JOINT
(a) APPROXIMATELY ONE-THIRD OF WALL THICKNESS



GRANULAR BACKFILL LIMITS AND MEMBER DIMENSIONS



UPSTREAM AND DOWNSTREAM WINGS REINFORCEMENT



BARREL REINFORCEMENT

GENERAL NOTES:

- BARREL AND WINGS SECTION ARE SYMMETRICAL ABOUT AND NORMAL TO ϕ CULVERT.
- DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.
- MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE $1\frac{1}{2}$ ".

Engineering beyond.™

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LOST HILL PARK
SPRINGFIELD, MO

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING INFORMATION

PROJECT NO: 24SP40024

DRAWN BY: CBD

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ISSUED FOR: CONSTRUCTION

ISSUED DATE: 8/26/2026

ISSUED BY: MORGAN NEAL

LICENSE NO: PE No. 2025008963

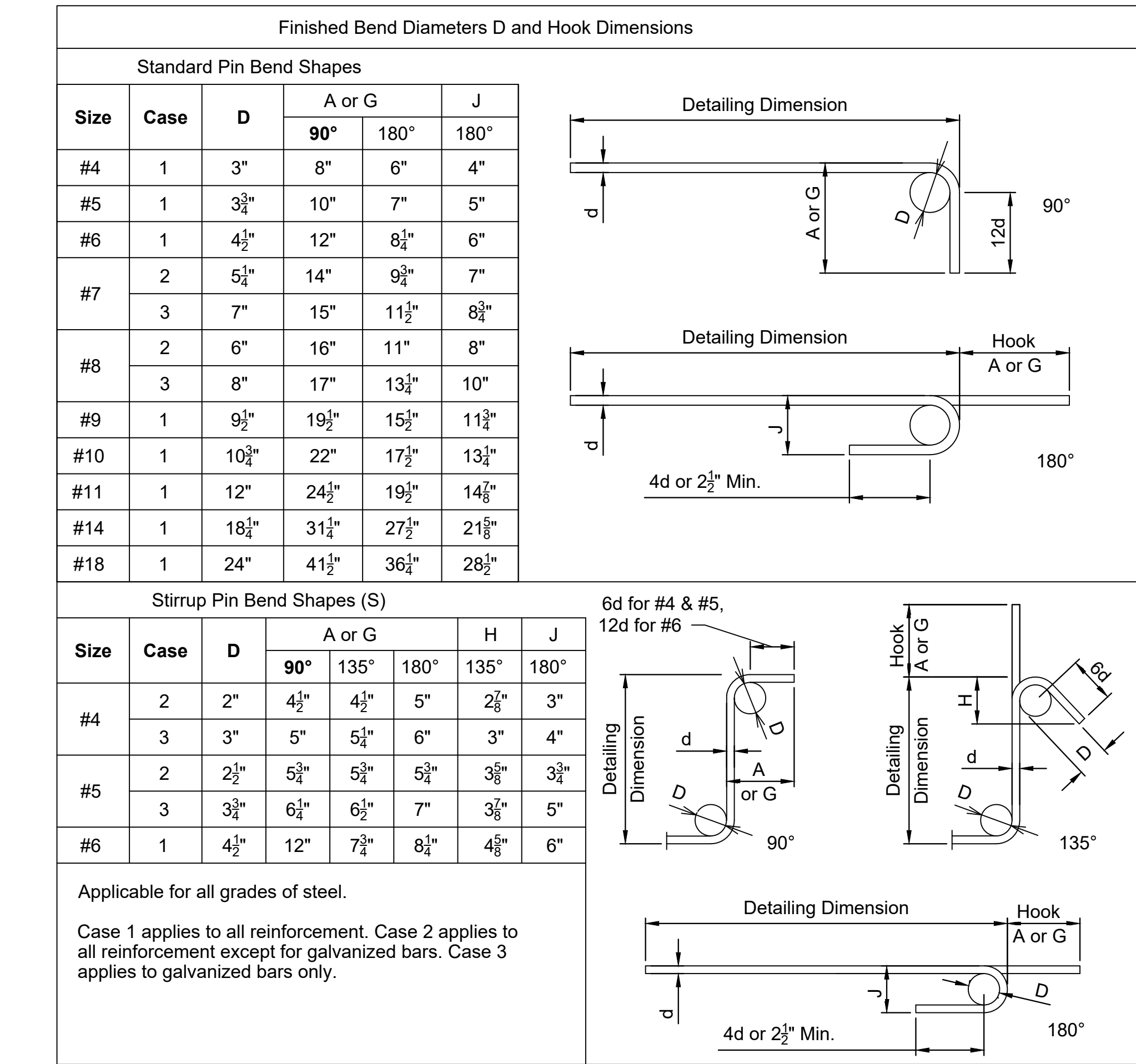
A licensed Missouri
Engineering Corporation
COA 00062

SHEET TITLE

LOW WATER
CROSSING
SECTIONS

SHEET NUMBER

7



Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Engineering beyond.™

FORMERLY ANDERSON ENGINEERING

LOST HILL PARK
SPRINGFIELD, MO

[illegible]

PROJECT NO: 24SP40024

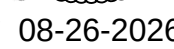
DRAWN BY: CBD

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CHECK BY: MDN

ISSUED FOR: CONSTRUCTION

ISSUED DATE: 8/26/2026



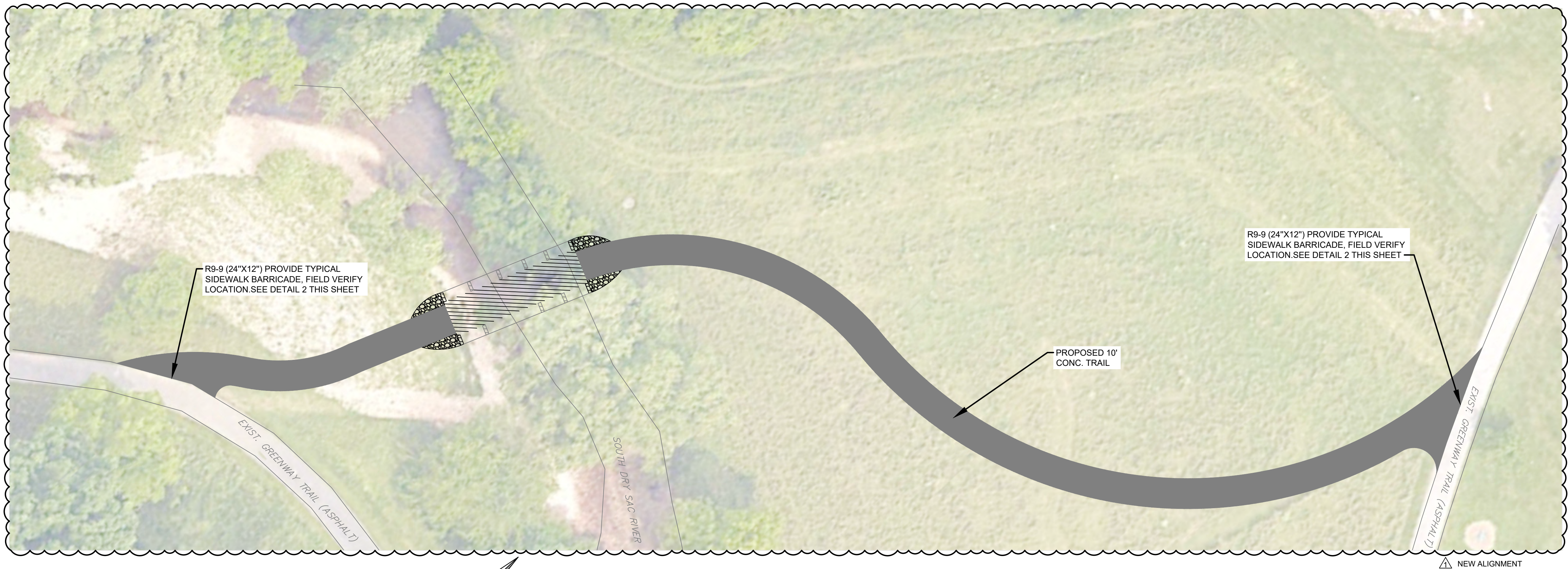
ISSUED BY: MORGAN NEAL

LICENSE NO: PE No. 2025008963

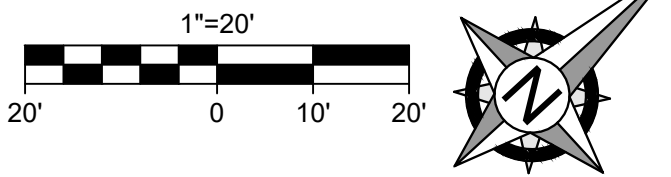
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LOW WATER CROSSING BAR SHAPES

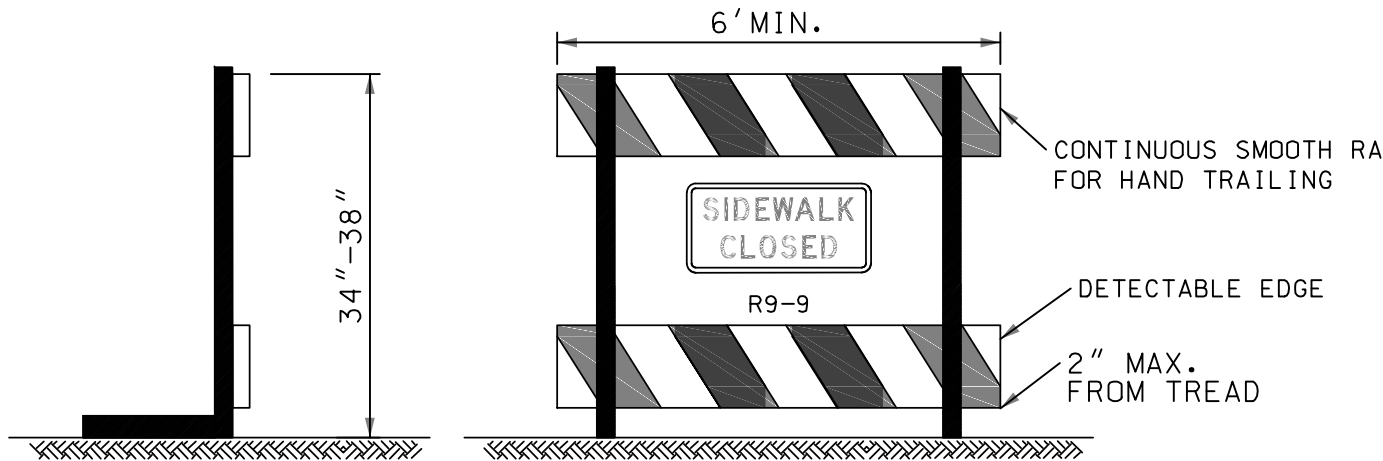
8



1 TRAFFIC CONTROL PLAN
SCALE: 1" = 20'



NOTE:
BARRICADE SIZE AND MATERIALS
CAN VARY BUT OVERALL DESIGN
AND SIZE SHOULD BE VERY SIMILAR.



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RA MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVIC
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

2 ADA COMPLIANT MOVEABLE BARRICADE
SCALE: N.T.S.

- NOTES:**
1. TRAFFIC CONTROL SHALL COMPLY WITH THE MUTCD (2009) AND WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 2. TRAFFIC CONTROL MAY BE STAGED WITH CONSTRUCTION AREAS IN ORDER TO REDUCE THE NUMBER OF TRAFFIC CONTROL DEVICES IN-PLACE AT ONE TIME.

SIGNING QUANTITIES - LOST HILL PARK TRAIL				
SIGN	SIZE (IN.)	AREA (S.F.)	QTY.	TOTAL AREA (S.F.)
R9-9	24X12	2.00	2	4
TOTAL	24X12	2.00	2	4

TEMPORARY TRAFFIC CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
616-10.30	TYPE III MOVEABLE BARRICADE	EACH	2

CAUTION:
INFORMATION ON THIS DRAWING CONCERNING TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #2	10/09/2026

DRAWING INFORMATION

PROJECT NO: 24SP40024
DRAWN BY: CBD
CHECK BY: MDN
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 10/09/2026



ISSUED BY: MORGAN NEAL
LICENSE NO: PE No. 2025008963

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SHEET TITLE

**TRAFFIC
CONTROL PLAN**

SHEET NUMBER

10