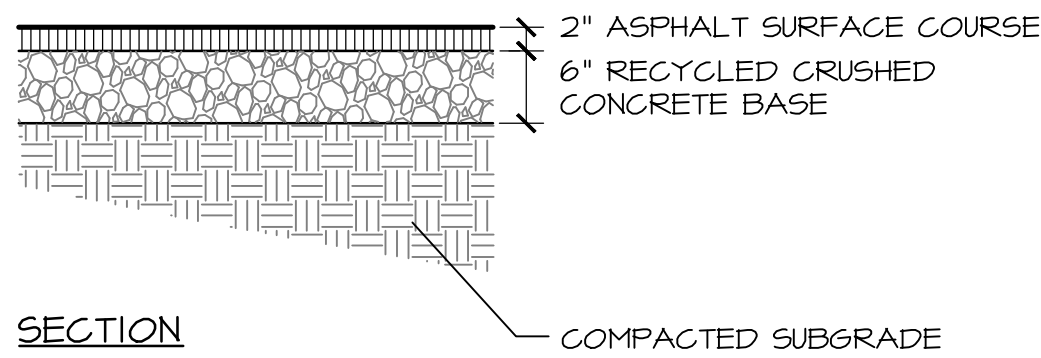
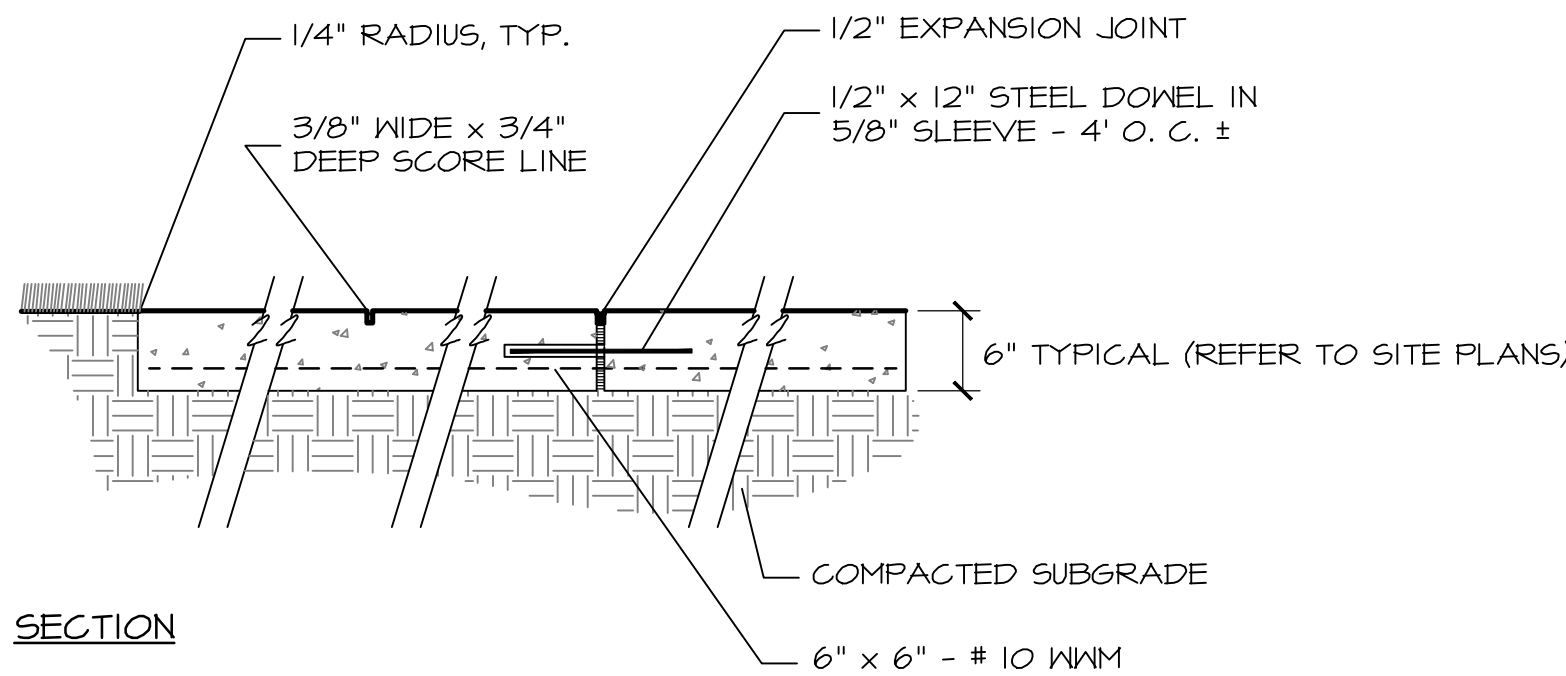


TDOT MATERIALS CERTIFICATION
ALL MATERIALS MUST BE CERTIFIED BY TDOT
PRIOR TO INSTALLATION

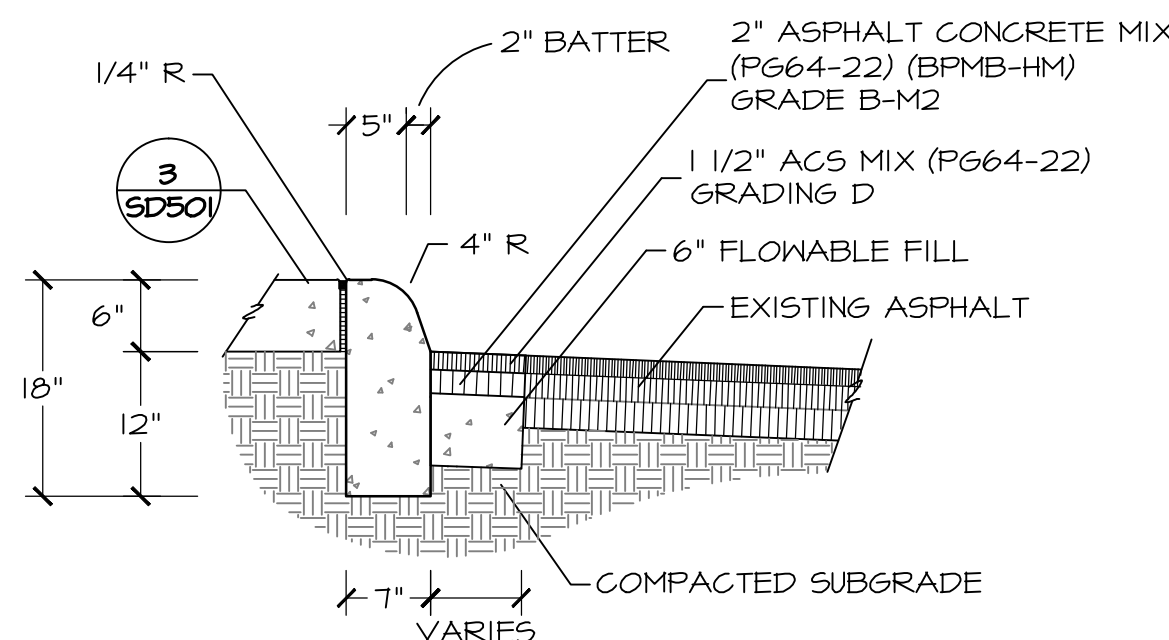


2
SD501

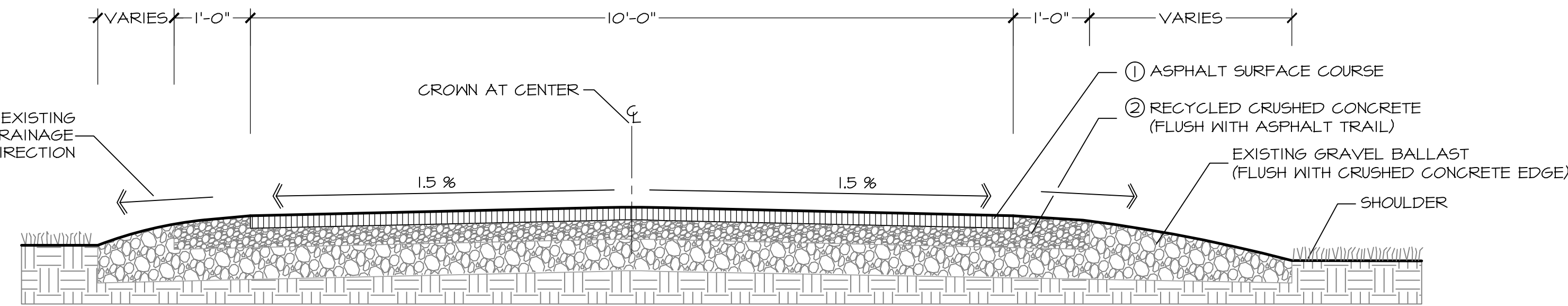
ASPHALT PAVING - ON EARTH GRADE
3/4" = 1'-0"



- NOTES:
1. CONCRETE TO BE IN ACCORDANCE WITH TDOT SPECIFICATIONS, AND SHALL BE 4,000 PSI, 2" - 4" SLUMP, 4% - 6% AIR ENTRAINED WITH #57 LIMESTONE AGGREGATE.
 2. FINISH TO BE MEDIUM BROOM FINISH PERPENDICULAR TO WALKING DIRECTION.
 3. EXPANSION JOINT: PRE-MOLDED JOINT FILLER WITH NEATLY TOOLED JOINT. SEALANT TO MATCH CONCRETE COLOR, AS APPROVED BY LANDSCAPE ARCHITECT.
 4. CONSTRUCT 5' x 5' SAMPLE PANEL OF BROOM FINISH CONCRETE PAVING FOR APPROVAL BY LANDSCAPE ARCHITECT.



- NOTES:
1. CONCRETE TO BE IN ACCORDANCE WITH TDOT SPECIFICATIONS, AND SHALL BE 4,000 PSI, 2" - 4" SLUMP, 4% - 6% AIR ENTRAINED WITH LIMESTONE AGGREGATE. CONCRETE TO HAVE HAND RUBBED FINISH.
 2. INSTALL EXPANSION JOINT THROUGH CURB EVERY 20' (25' MAX), AND A MINIMUM OF 5 FT. FROM INLET STRUCTURES. INSTALL (2) 1/2" x 12" STEEL DOWELS THROUGH ALL EXPANSION JOINTS. EACH DOWEL WITH GREASED END CAP, ONE END.
 3. SAW CUT (1) SCORE LINE AT 1" DEPTH IN CONCRETE CURB CENTERED BETWEEN EXPANSION JOINTS. SCORE LINE TO BE CUT AT TOP AND FACE OF CURB AND GUTTER.

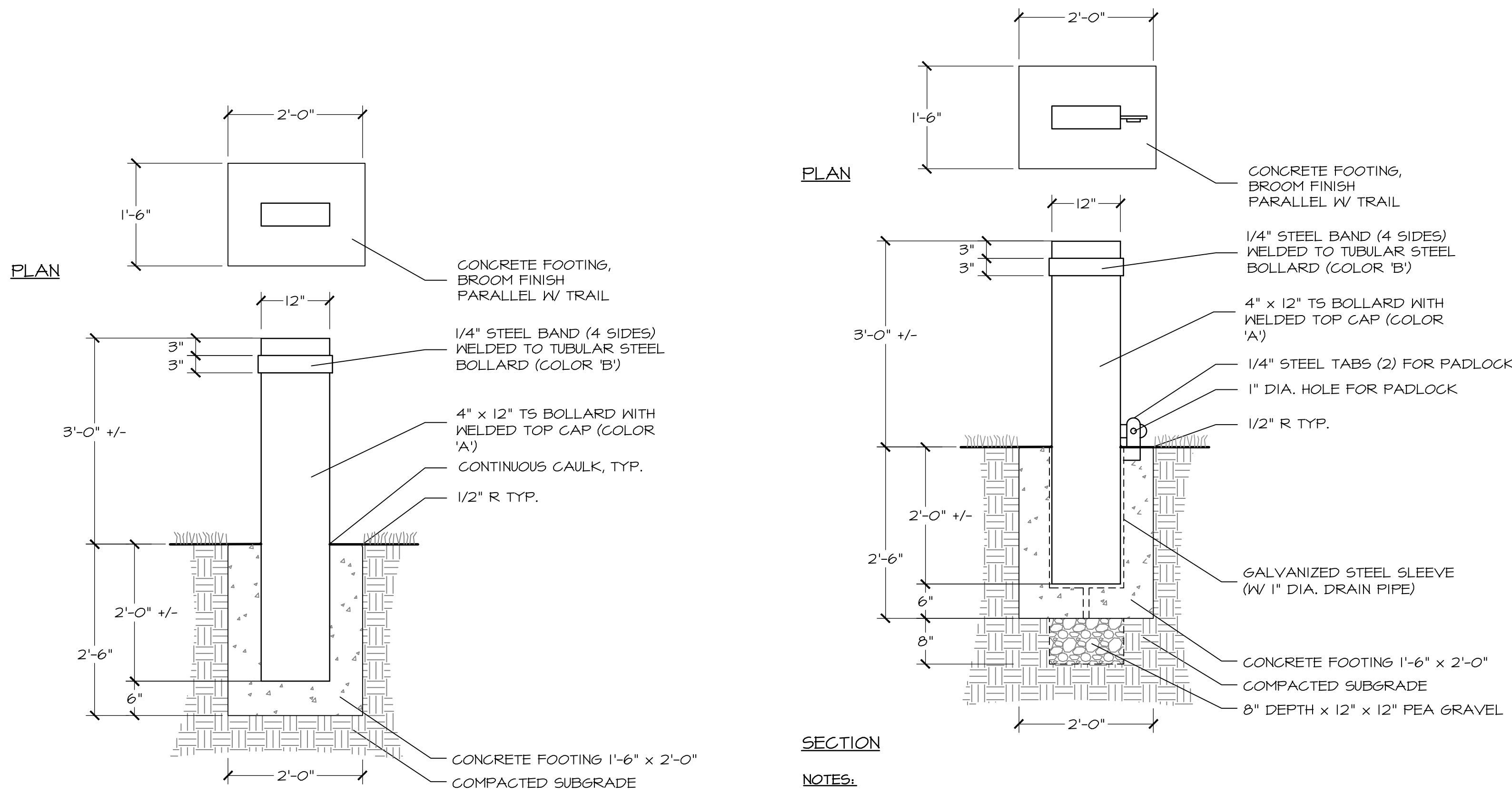


- SECTION
- PAVEMENT SCHEDULE:
1. 2" ACES MIX (PG64-22) GRADING "E" RDWY (ITEM 411-01.11)
 2. 3" COMPACTED RECYCLED CRUSHED CONCRETE AGGREGATE (SPECIAL ITEM 920-10.03)

- NOTES:
1. TRAIL SHALL BE CROWNED AS INDICATED. TRAIL SHALL NOT INTERRUPT DRAINAGE PATTERN OR CAUSE PONDING ON OR NEXT TO THE TRAIL.
 2. INSTALL 3" THICK COMPACTED RECYCLED CRUSHED CONCRETE UNDER ASPHALT AND 12" BEYOND EACH SIDE OF TRAIL AS INDICATED. CRUSHED CONCRETE TO BE APPROX. 3/4" DIA. TO FINES (SIMILAR GRADATION TO CR610 LIMESTONE).
 3. SOME EXISTING GRAVEL BALLAST WILL HAVE TO BE SPOILED ON EACH SIDE OF TRAIL. SPREAD GRAVEL TO FORM REASONABLY SMOOTH SURFACE.
 4. REFER TO KEY NOTE ON SITE PLAN FOR VEGETATION REMOVAL AT BALLAST WITHIN AND ADJACENT TO TRAIL. COMPACT AND STABILIZE BALLAST AS REQUIRED TO PROVIDE AN EVEN AND STABLE BASE FOR NEW ASPHALT PAVING.

1
SD501

ASPHALT PAVING - ON EXISTING BALLAST
3/4" = 1'-0"

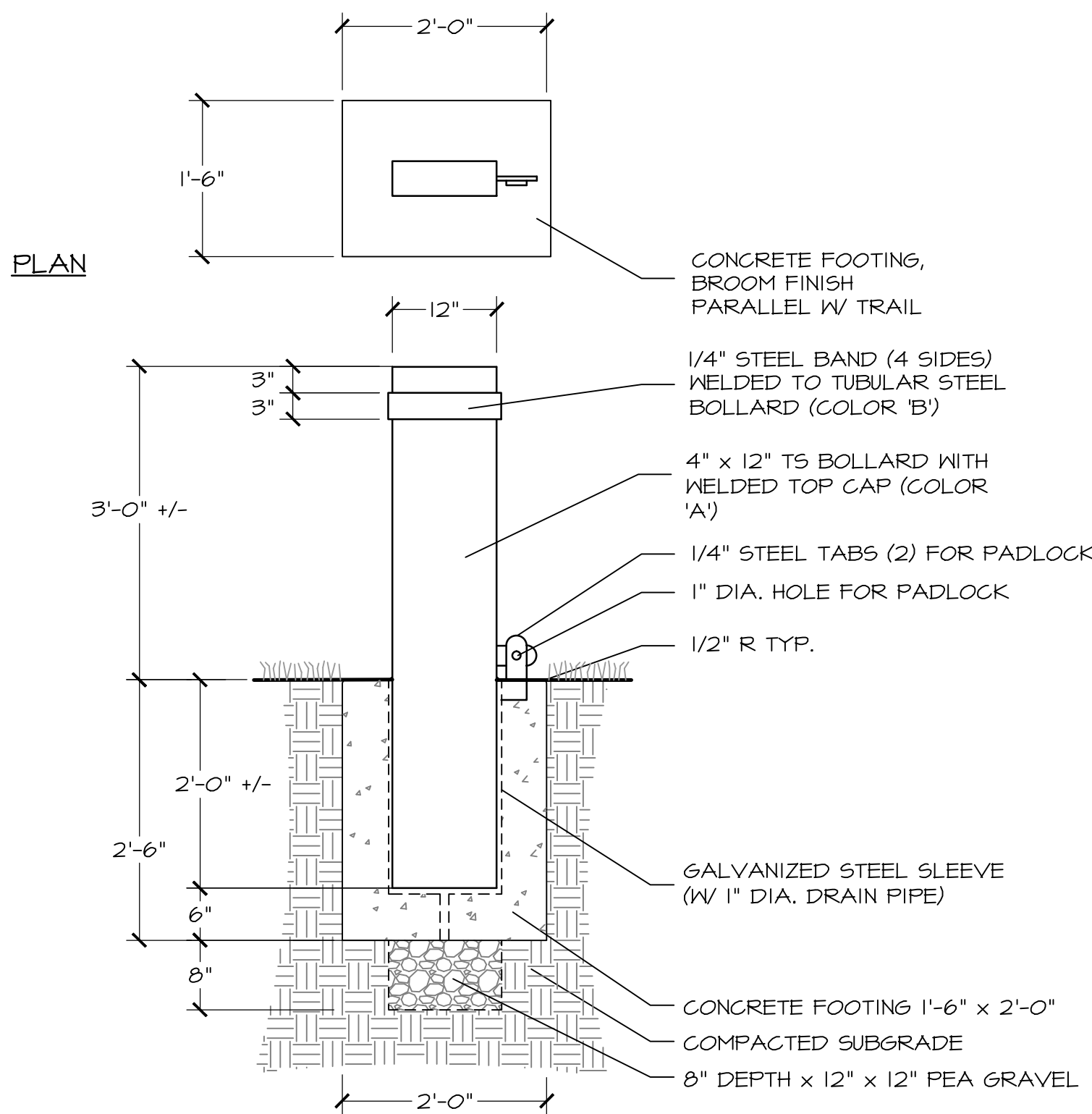


- SECTION
- NOTES:
1. STEEL TO BE SIZES INDICATED. TUBULAR STEEL (TS) TO HAVE 3/16" WALL THICKNESS. GRIND ALL WELDS SMOOTH AND EASE EXPOSED EDGES.
 2. SUBMIT SHOP DRAWINGS OF ALL METAL WORK FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
 3. CLEAN PRIME, AND APPLY (2) FINISH COATS TO ALL METAL SURFACES IN COLORS SPECIFIED. REFER TO SPECIFICATION SECTION 09400.

COLOR 'A' - MATCH 'ROCK BOTTOM' GRAY COLOR OF PHASE I GREENLINE BOLLARDS.
COLOR 'B' - MATCH 'GOLDFINCH' YELLOW COLOR OF PHASE I GREENLINE BOLLARDS.
 4. IN ADDITION TO PAINTING THE BOLLARDS, PAINT 3 SECURITY CAMERA POLES (15' HT.) AND 3 ELECTRIC METER SUPPORT FRAMES (FOR SECURITY CAMERAS) ON GREENLINE PHASE I SITE. COLOR IS COLOR 'A'. INCLUDE THIS WORK IN PAY ITEM FOR FIXED METAL BOLLARDS.
 5. INSTALL BOLLARDS PLUMB. TOP OF BOLLARDS AT CONSTANT ELEVATION.
 6. TOP OF CONCRETE FOOTING IS LEVEL.

5
SD501

FIXED METAL BOLLARD
3/4" = 1'-0"

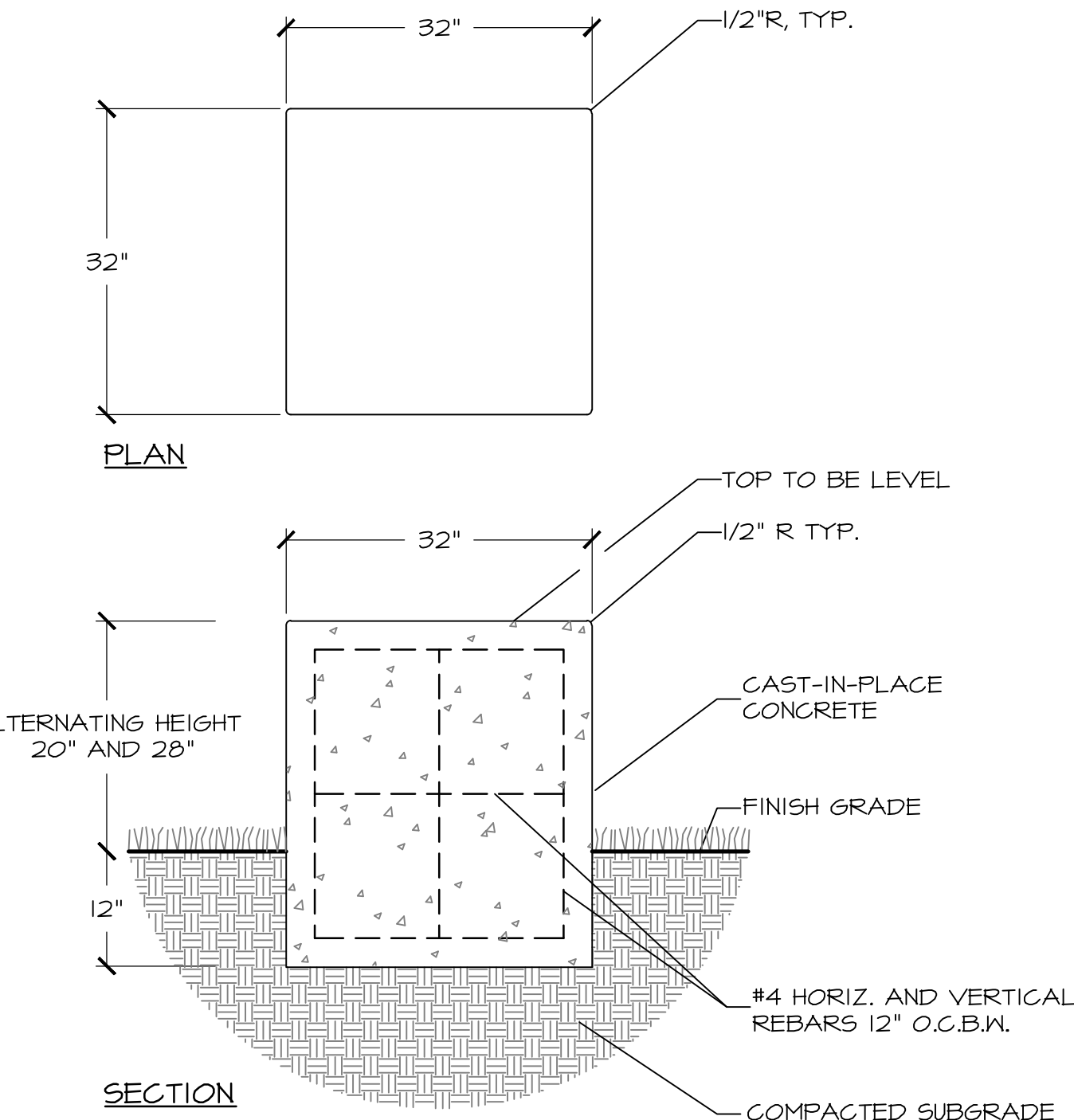


- SECTION
- NOTES:
1. STEEL TO BE SIZES INDICATED. TUBULAR STEEL (TS) TO HAVE 3/16" WALL THICKNESS. GRIND ALL WELDS SMOOTH AND EASE EXPOSED EDGES.
 2. SUBMIT SHOP DRAWINGS OF ALL METAL WORK FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
 3. CLEAN PRIME, AND APPLY (2) FINISH COATS TO ALL METAL SURFACES IN COLORS SPECIFIED. REFER TO SPECIFICATION SECTION 09400.

COLOR 'A' - MATCH 'ROCK BOTTOM' GRAY COLOR OF PHASE I GREENLINE BOLLARDS.
COLOR 'B' - MATCH 'GOLDFINCH' YELLOW COLOR OF PHASE I GREENLINE BOLLARDS.
 4. REMOVABLE BOLLARDS WILL BE SET IN 4 1/4" x 12 1/4" SLEEVE OPENING WITH 1" DIA. DRAIN PIPE AT BOTTOM OF SLEEVE DRAINING INTO PEA GRAVEL.
 5. TUBULAR STEEL SLEEVES SHALL HAVE GALVANIZED FINISH WITH EASED EDGES AT TOP OF TUBE.
 6. PROVIDE (2) 1/4" STEEL TABS AS INDICATED TO SECURE BOLLARD WITH PADLOCK (HEAVY DUTY PADLOCK SUPPLIED BY OWNER). PADLOCK TO BE AT REAR OF BOLLARD, OPPOSITE STREET SIDE.
 7. INSTALL BOLLARDS PLUMB. TOP OF BOLLARDS AT CONSTANT ELEVATION.
 8. TOP OF CONCRETE FOOTING IS LEVEL.

6
SD501

REMOVABLE METAL BOLLARD
3/4" = 1'-0"



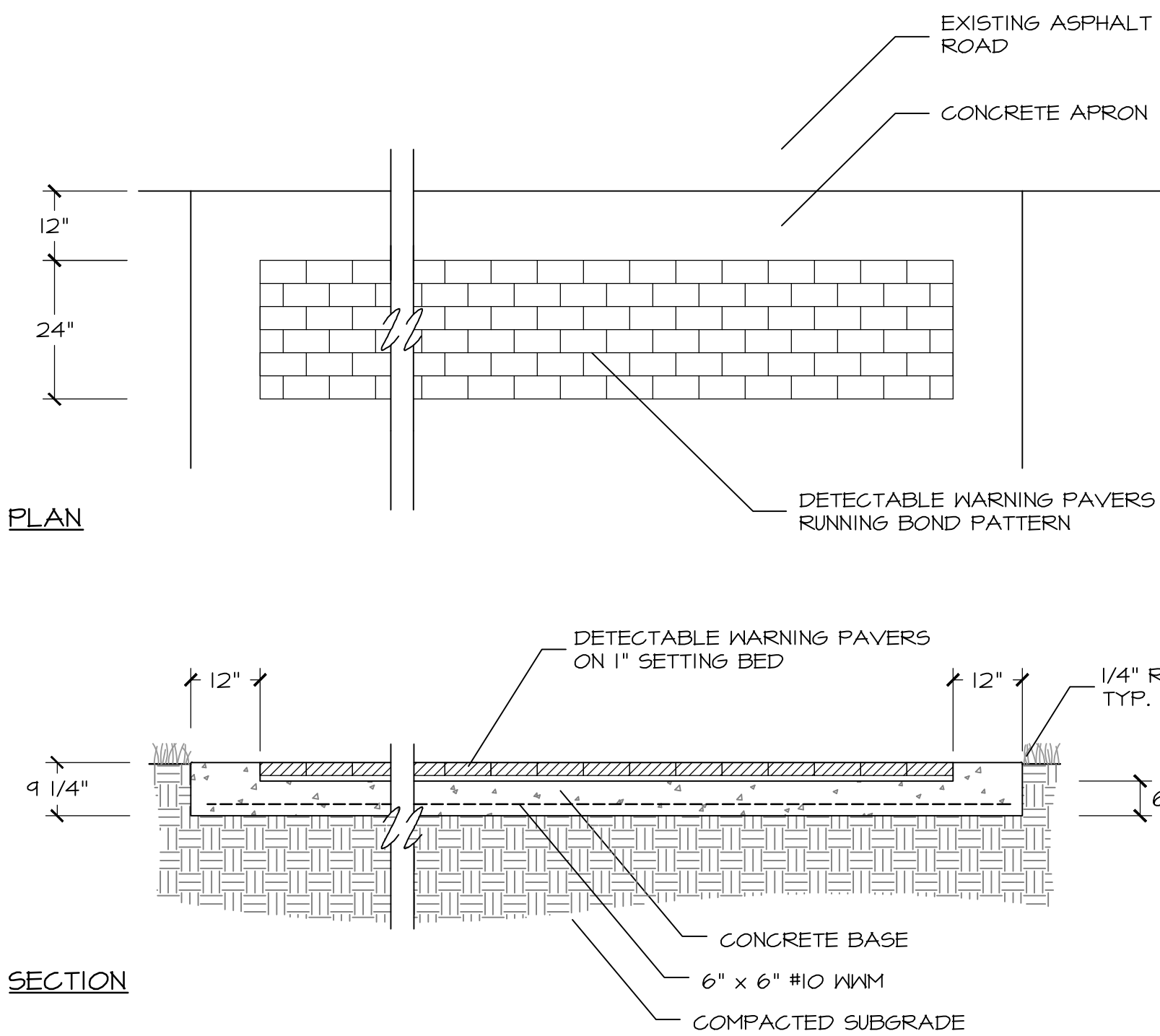
- SECTION
- NOTES:
1. HEIGHT OF BARRIER ABOVE GRADE ALTERNATES BETWEEN 20" AND 28", AS APPROVED BY LANDSCAPE ARCHITECT.
 2. CONCRETE TO BE IN ACCORDANCE WITH TDOT SPECIFICATIONS AND SHALL BE 4,000 PSI, 2" - 4" SLUMP, 4% - 6% AIR ENTRAINED WITH #57 LIMESTONE AGGREGATE, DARK GRAY COLOR.
 3. COLOR ADMIXTURE TO BE IN ACCORDANCE WITH TDOT SPECIFICATIONS, AND SHALL BE CHROMIX ADMIXTURE WITH LITHOCHROME COLORMAX, FRENCH GRAY COLOR, BY SCOFIELD SYSTEMS, DOUGLASVILLE, GEORGIA, PHONE 800-800-9900 (OR APPROVED EQUAL).
 4. ALL VISIBLE SURFACES TO HAVE MEDIUM SANDBLASTED FINISH. LANDSCAPE ARCHITECT SHALL APPROVE SAMPLE AREA OF SANDBLASTED FINISH BEFORE PROCEEDING WITH WORK.

7
SD501

URBAN BOULDERS
3/4" = 1'-0"

4
SD501

CONCRETE CURB
3/4" = 1'-0"



- NOTES:
1. CONCRETE TO BE 4,000 PSI, 2" - 4" SLUMP, 4% - 6% AIR ENTRAINED WITH #57 LIMESTONE AGGREGATE.
 2. DETECTABLE WARNING PAVERS TO BE ONE OF THE FOLLOWING (OR APPROVED EQUAL):

A. 4" x 8" x 2 1/4" SHADE 44 MAHOGANY TEXTURED, BY WHITACRE-GREER, ALLIANCE, OHIO, PHONE 800-447-2831 OR 330-823-1610.

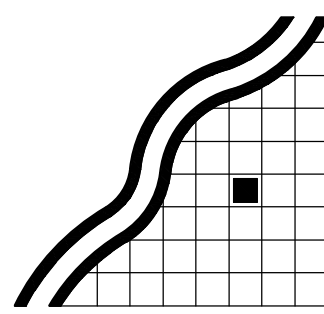
B. 4" x 8" x 2 1/4" CITYLINE ADA PAVES, SIENNA BLEND COLOR, BY BELDEN BRICK COMPANY, CANTON, OHIO, PHONE 330-451-2031.
 3. DELIVER PAVES SAMPLES TO JOB SITE FOR APPROVAL BY LANDSCAPE ARCHITECT.
 4. INSTALL PAVERS ON 1" COMPACTED SETTING BED COMPOSED OF 50% SAND AND 50% PORTLAND CEMENT. INSTALL IN RUNNING BOND PATTERN AS INDICATED. SAW CUT PAVERS FOR EXACT FIT WITH OPENING, AS REQUIRED.
 5. REFER TO GRADING PLAN FOR SPECIFIC GRADE DATA.

8
SD501

DETECTABLE WARNING PAVES BAND
1/2" = 1'-0"

SHELBY FARMS GREENLINE - EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT



Ritchie Smith Associates

Planning
Landscape Architecture
Urban Design

▲ 65 Union Avenue
Suite 1140
Memphis, TN 38103
Phone 901 523-1198
Fax 901 523-1190



PROJECT PHASE

FINAL DESIGN

DATE OF ISSUE

APRIL 2, 2015

REVISIONS

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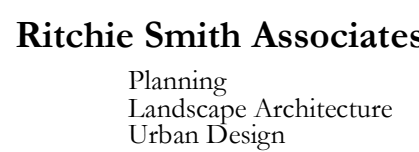
SHEET NO.

SD501

SHEET TITLE

SPECIAL DETAILS

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT



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Fax 901 525-1190



CIVIL ENGINEERING
2851 LAMB PLACE • SUITE 2 • MEMPHIS, TN 38118
TELEPHONE 901-794-9815 • FAX 901-794-9817



NOTE:

NOTES:

1. STEEL TO BE SIZES INDICATED. TUBULAR STEEL (T.S.) TO HAVE 1/8" WALL THICKNESS.
2. CHAIN LINK FABRIC TO BE 4 GAUGE STEEL WIRE WITH 2" x 2" MESH. CHAIN LINK FABRIC, POSTS, TOP AND BOTTOM RAILS AND ALL COMPONENTS TO BE GALVANIZED WITH POLYESTER RESIN FINISH, BLACK COLOR. ASSEMBLE COMPONENTS USING STANDARD CHAIN LINK MECHANICAL FASTENERS, ADAPTED FOR TUBULAR STEEL POSTS AND RAILS.
3. SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR ALL CHAIN LINK FENCE COMPONENTS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. WOOD COMPONENTS TO BE SOUTHERN YELLOW PINE PRESSURE TREATED WITH 4 LBS./CF ACQ. WOOD TO BE FREE OF MAJOR KNOTS, CHECKS, AND WARPS. ALL SURFACES SHALL BE FREE OF SPLINTERS AND SANDED SMOOTH.
5. SECURE WOOD TO T.S. POST WITH BLACK FINISH CARRIAGE BOLTS, AS APPROVED BY LANDSCAPE ARCHITECT.
6. ALL RAILING SHALL BE INSTALLED PLUMB. TOP RAIL SHALL BE IN STRAIGHT ALIGNMENT FOR A GIVEN RAIL SEGMENT.
7. REFER TO SPECIFICATION SECTION 02444 FOR ADDITIONAL REQUIREMENTS.



1
SD502

BRIDGE RAIL AND PAVING
AS NOTED

AS NOTED



NOTES:

1. SIGN FACE SHALL BE 3/4" PLYWOOD. SIGN POSTS SHALL BE 4" X 4" PRESURE TREATED SOUTHERN YELLOW PINE.
2. ALL SIDES OF SIGN FACE AND POSTS SHALL BE PAINTED WHITE. LETTERS SHALL BE BLACK. SIGN BORDER SHALL BE RED.
3. SUBMIT GRAPHIC LAYOUT OF SIGN FACE TO ENGINEER AND LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
4. INSTALL SIGN AT EACH END OF TRAIL IN LOCATION APPROVED BY SHELBY COUNTY ENGINEER AND LANDSCAPE ARCHITECT.
5. INSTALL AND MAINTAIN SIGN IN PLUMB POSITION.


$$\frac{3}{4}'' = 1'-0''$$

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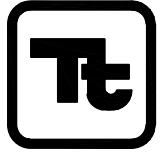
SD502

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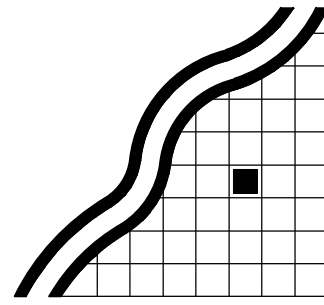
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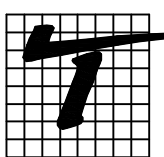
TETRA TECH
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Richie Smith Associates

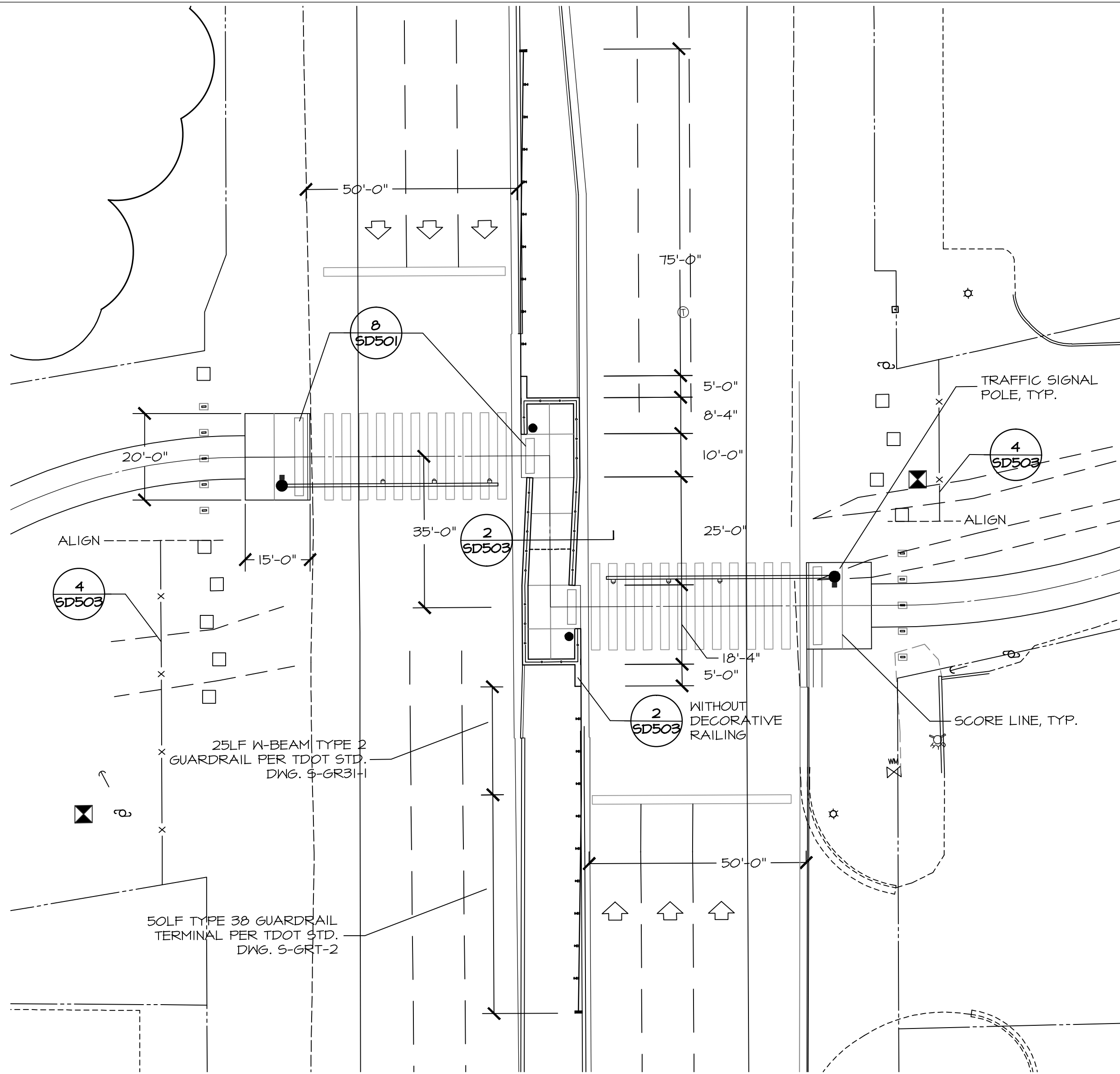
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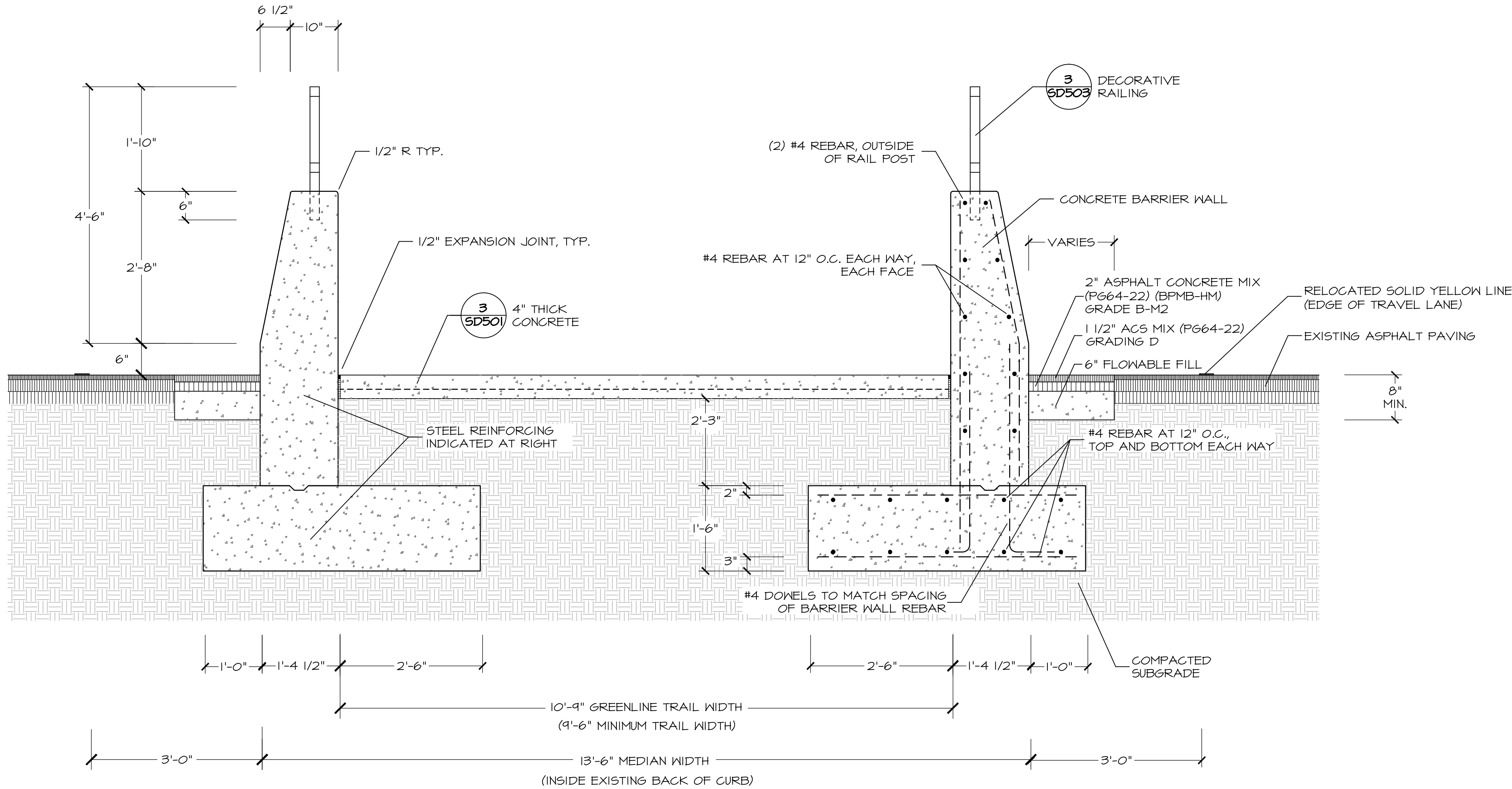
TOLES & ASSOCIATES, INC.

CIVIL ENGINEERING
2851 LAMB PLACE • SUITE 2 • MEMPHIS, TN 38118
TELEPHONE 901-794-9815 • FAX 901-794-9817



NOTES:
1. ALL GUARDRAILS SHALL HAVE WEATHERING STEEL FINISH.

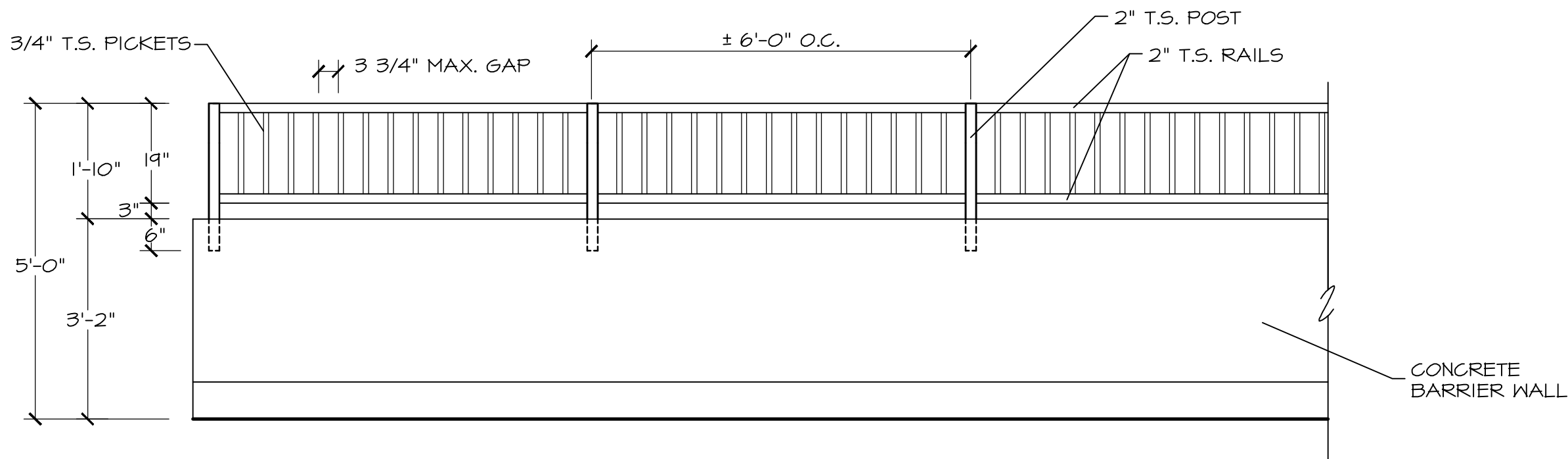
1 REFUGE MEDIAN PLAN
SCALE: 1" = 20'



SECTION

- NOTES:**
1. CONCRETE TO BE IN ACCORDANCE WITH TDOT SPECIFICATIONS, AND SHALL BE 4,000 PSI, 2" - 4" SLUMP, 4% - 6% AIR ENTRAINED WITH #8 LIMESTONE AGGREGATE, DARK GRAY COLOR.
 2. CONCRETE BARRIER WALL SHALL HAVE CHROMIX ADMIXTURE, FRENCH GRAY COLOR, BY SCOFIELD SYSTEMS, DOUGLASVILLE, GEORGIA, PHONE 800-800-1900 (OR APPROVED EQUAL).
 3. ALL VISIBLE SURFACES TO HAVE MEDIUM SANDBLASTED FINISH. LANDSCAPE ARCHITECT SHALL APPROVE SAMPLE AREA OF SANDBLASTED FINISH BEFORE PROCEEDING WITH WORK.
 4. EXPANSION JOINT: PRE-MOLDED JOINT FILLER WITH NEATLY TOOLED JOINT. SEALANT TO MATCH CONCRETE COLOR, AS APPROVED BY LANDSCAPE ARCHITECT.

2 REFUGE MEDIAN SECTION
SCALE: 3/4" = 1'-0"

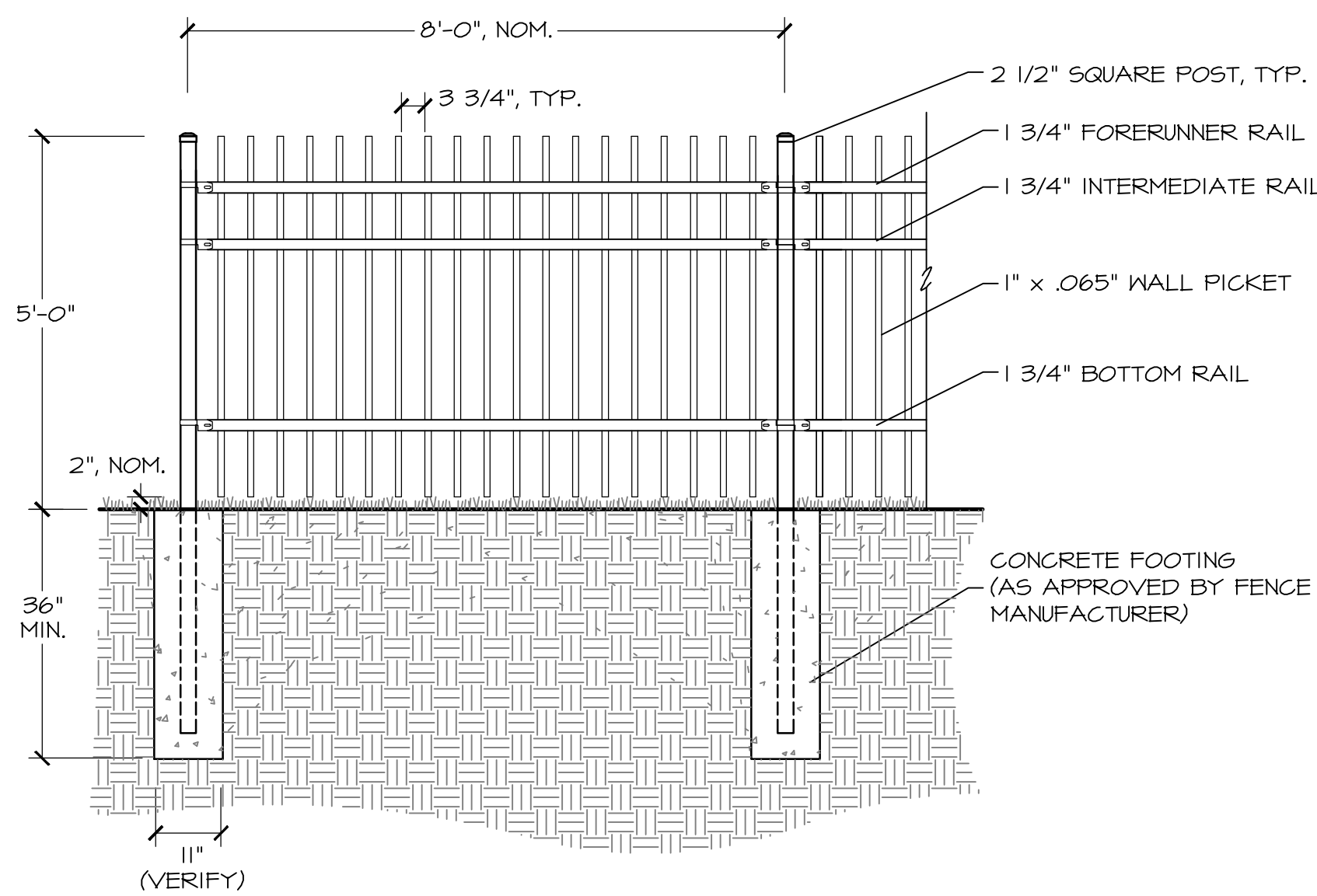


ELEVATION

NOTES:

1. DECORATIVE RAILING TO BE MODIFIED MONTAGE PLUS STEEL FENCE SYSTEM IN MAJESTIC STYLE, ONE TOP RAIL AND ONE BOTTOM RAIL, BY AMERISTAR FENCE PRODUCTS, TULSA, OKLAHOMA, PHONE 888-333-3422. POWDER COAT COLOR TO BE BLACK. ALTERNATE SUPPLIER IS MERCHANTS METALS, ATLANTA, GEORGIA, PHONE 888-888-5611 (OR APPROVED EQUAL).
2. INSTALL FENCE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3 BARRIER WALL ELEVATION W/ DECORATIVE RAILING
SCALE: 1/2" = 1'-0"



TYPICAL ELEVATION

NOTES:

1. METAL FENCE TO BE MONTAGE PLUS STEEL FENCE SYSTEM IN GENESIS STYLE, TWO TOP RAILS AND ONE BOTTOM RAIL, BY AMERISTAR FENCE PRODUCTS, TULSA, OKLAHOMA, PHONE 888-333-3422. POWDER COAT COLOR TO BE BLACK. ALTERNATE SUPPLIER IS MERCHANTS METALS, ATLANTA, GEORGIA, PHONE 888-888-5611 (OR APPROVED EQUAL).
2. INSTALL FENCE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

4 ORNAMENTAL METAL FENCE
SCALE: 1/2" = 1'-0"

PROJECT PHASE

FINAL DESIGN

DATE OF ISSUE
APRIL 2, 2015

REVISIONS

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SEAL.



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SHEET NO.

SD503

SHEET TITLE

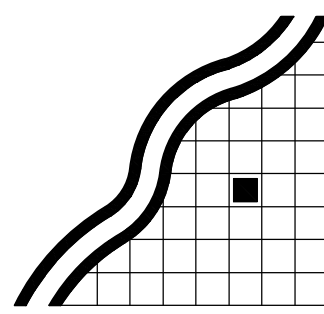
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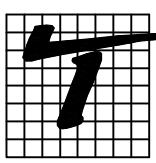
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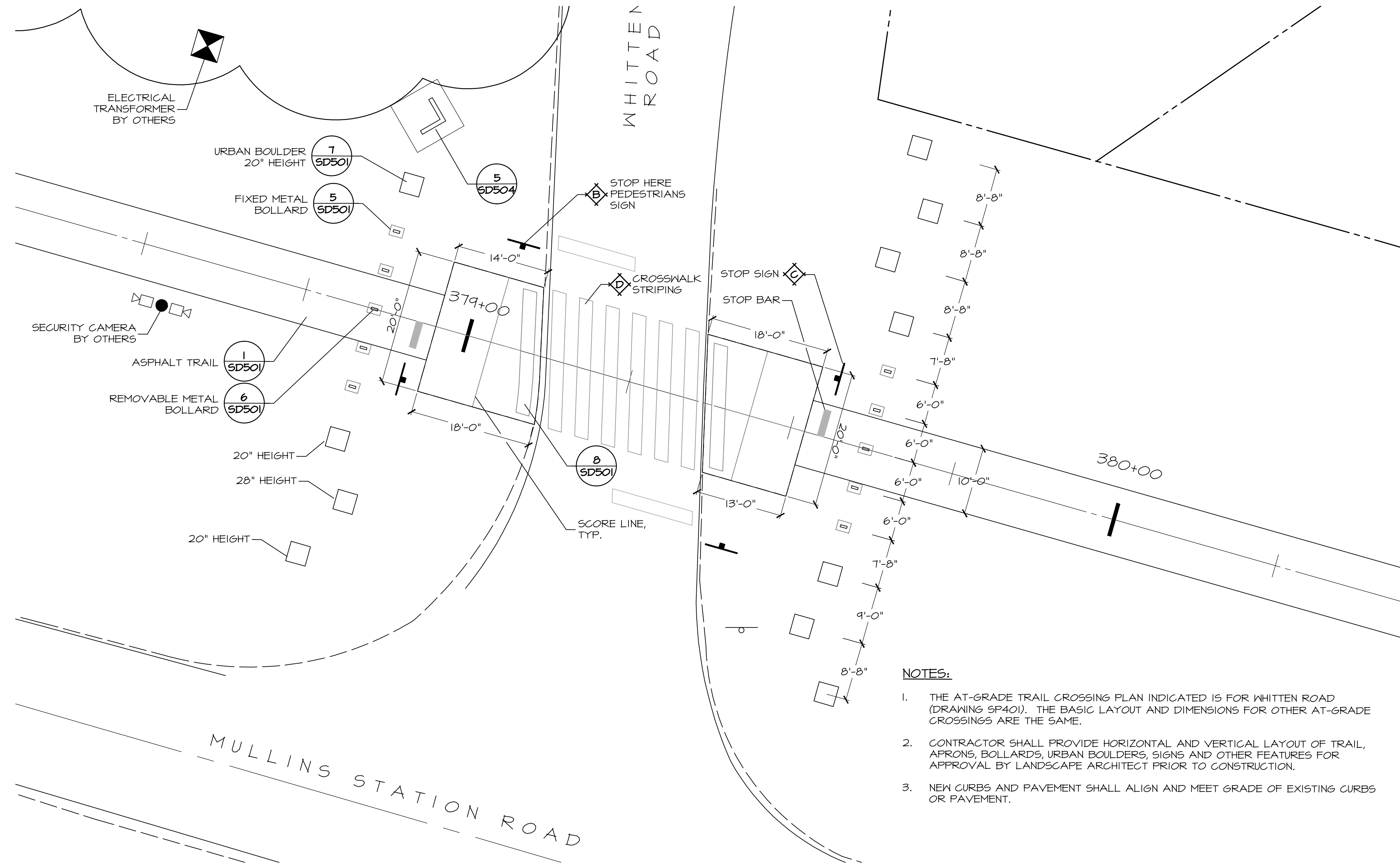
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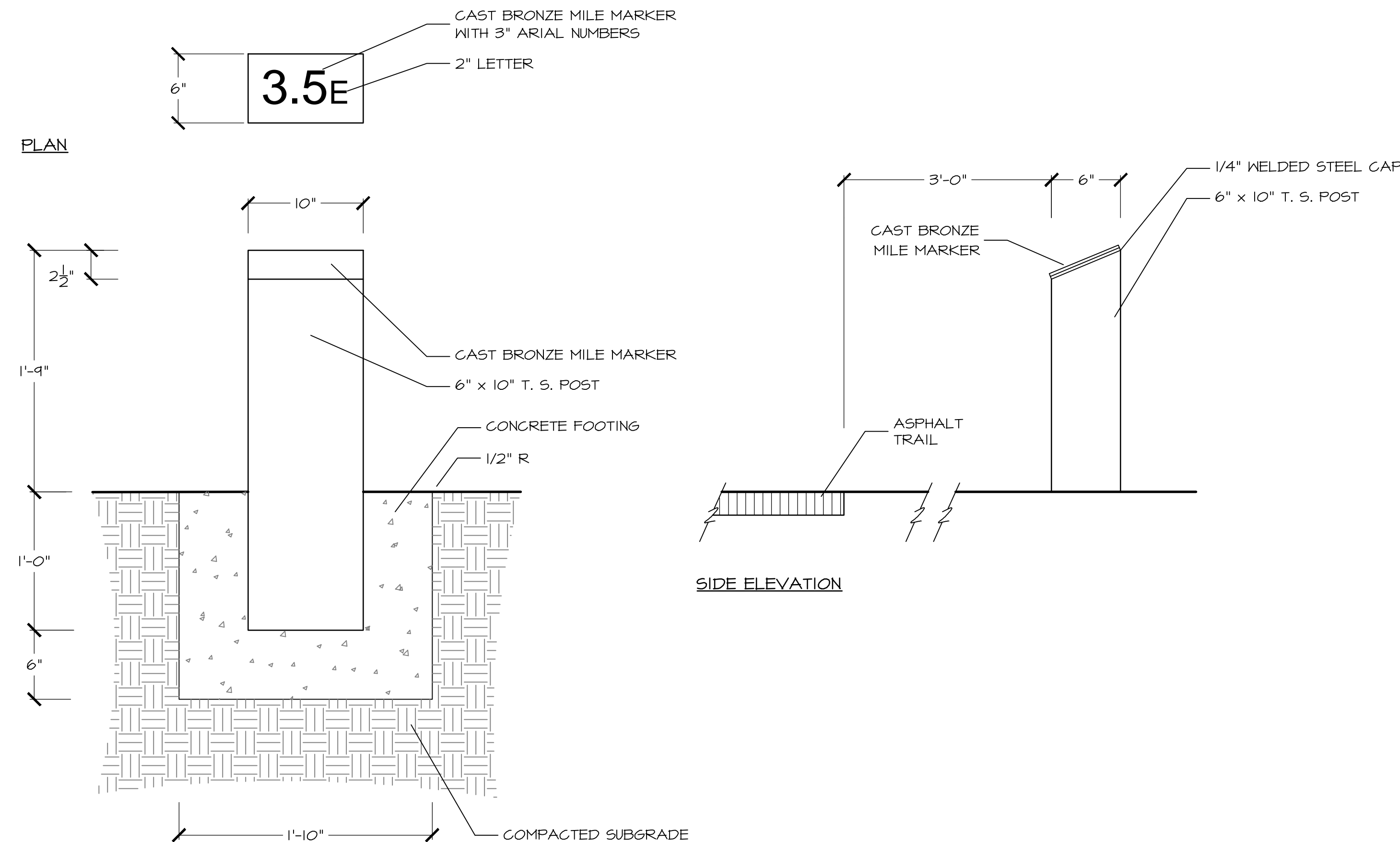


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1
SD504 TYPICAL AT-GRADE TRAIL CROSSING
SCALE: 1" = 10'



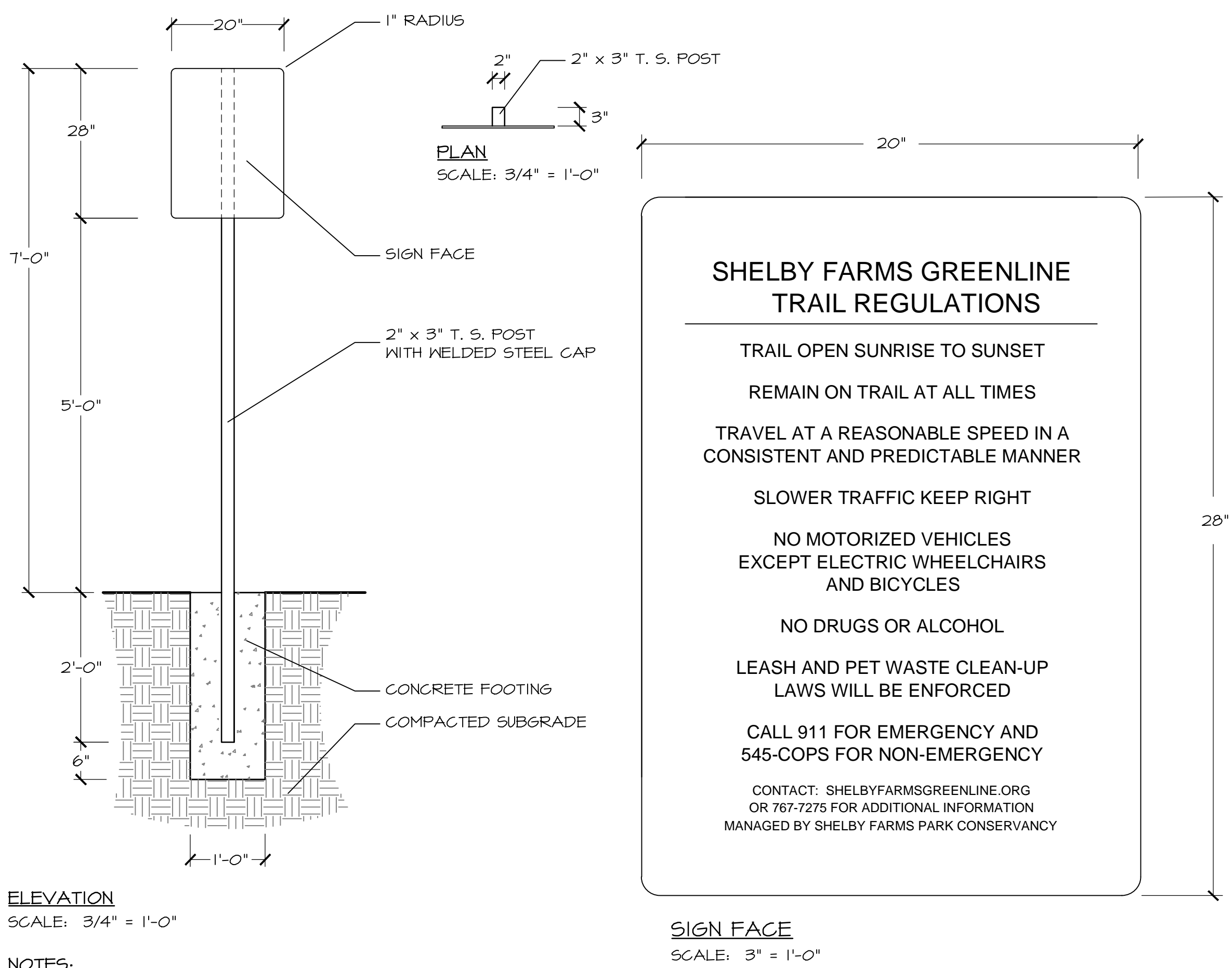
FRONT ELEVATION

NOTES:

- 0.5 MILE MARKERS ARE REQUIRED AT 0.5 MILE INCREMENTS (FROM MILE 0.5E TO 4.0E).
- BRONZE MILE MARKER LETTERS ARE RAISED, ARIAL FONT. MAX. HEIGHT OF RAISED LETTERS IS 1/8". MILE MARKER BACKGROUND HAS PEBBLE FINISH OR AS APPROVED.
- SUBMIT FULL SIZE GRAPHIC LAYOUT OF TYPICAL CAST BRONZE MILE MARKER FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
- MILE MARKER TO BE SUPPLIED BY LUGAR FOUNDRY, EADS, TENNESSEE, PHONE 901-867-1006 (OR APPROVED EQUAL).
- TUBULAR STEEL (T.S.) POST TO HAVE 1/4" WALL THICKNESS. CLEAN, PRIME AND PAINT WITH COLOR 'A' AS NOTED ON DETAIL 5/SD501. REFER TO SPECIFICATION SECTION 04900.
- INSTALL 0.5 MILE MARKERS. BEGIN AT WEST END OF TRAIL AT MILE 0.5E AND CONTINUE EAST TO MILE 4.0. CONTRACTOR SHALL CONFIRM EXACT 0.5 MILE DISTANCE BETWEEN MILE MARKERS AND STAKE LOCATION FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- TOP OF CONCRETE FOOTING IS LEVEL, WITH MEDIUM BROOM FINISH PERPENDICULAR TO TRAIL.

3
SD504 MILE MARKER (QTY. 0)
SCALE: 1 1/2" = 1'-0"

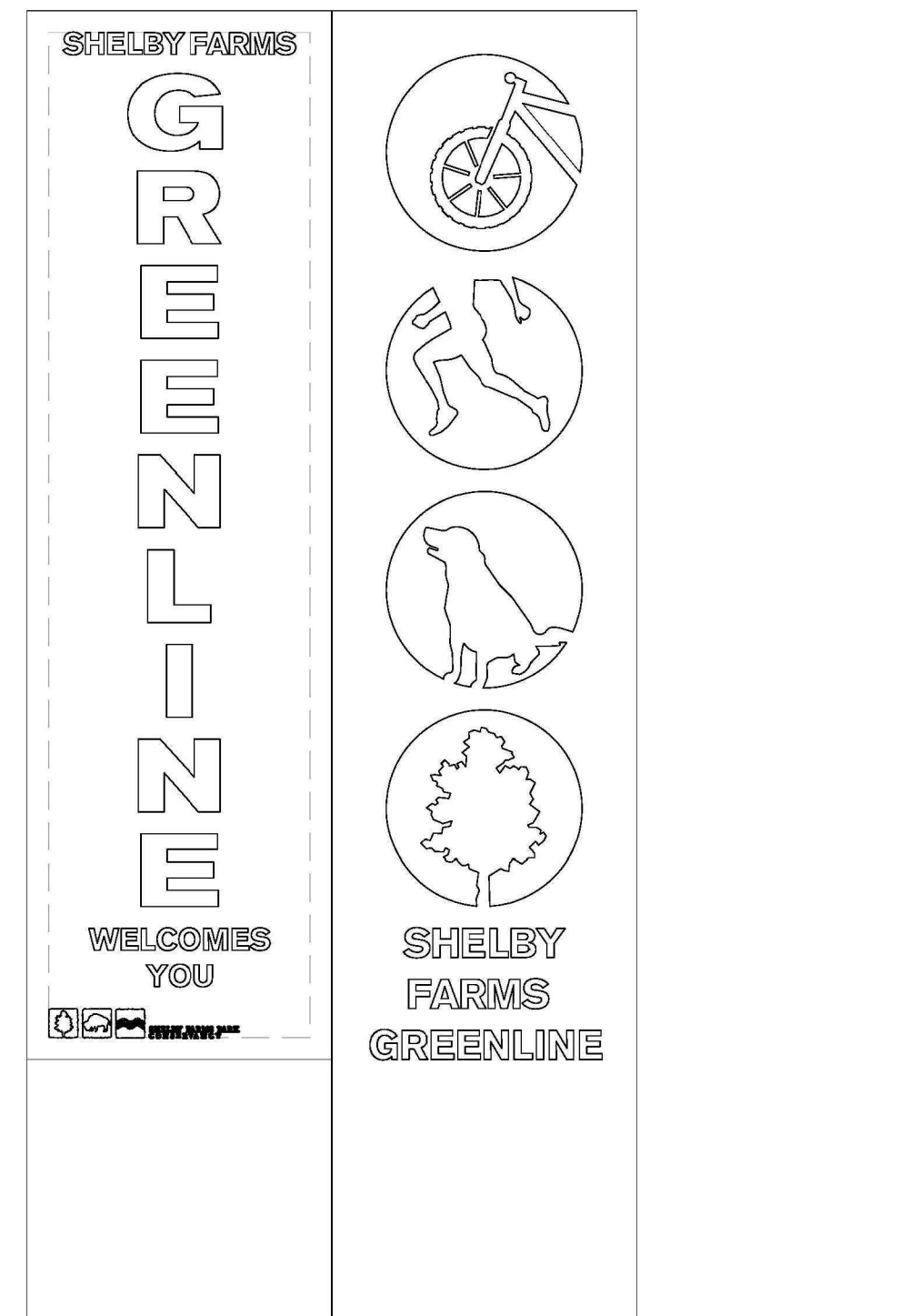
2
SD504 TRAIL REGULATIONS SIGN (QTY. 6)
AS NOTED



ELEVATION
SCALE: 3/4" = 1'-0"

NOTES:

- SIGN PANEL TO BE 1/2" THICK PHENOLIC RESIN WITH EMBEDDED GRAPHICS. SUPPLIED BY FOLIA INDUSTRIES, HUNTINGDON, QUEBEC, CANADA, PHONE 450-264-6122 OR 888-264-6122 (OR APPROVED EQUAL).
- FRONT OF SIGN TO HAVE BLACK TEXT (ARIAL FONT), BACKGROUND COLOR AND SCREENED PHOTO IMAGE AS APPROVED. REAR OF SIGN TO HAVE SINGLE DARK GRAY OR BLACK COLOR WITH NO CONTENT AS APPROVED.
- SUBMIT PRODUCT DATA AND FULL OR HALF SIZE COLOR GRAPHIC LAYOUT OF SIGN FACE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
- TUBULAR STEEL (T.S.) POST TO HAVE 1/4" WALL THICKNESS. CLEAN, PRIME AND PAINT WITH COLOR 'A' AS NOTED ON DETAIL 5/SD501. REFER TO SPECIFICATION SECTION 04900.
- SECURE SIGN PANEL TO POST WITH (2) LOW PROFILE STAINLESS STEEL BOLTS. LANDSCAPE ARCHITECT SHALL APPROVE EXACT LOCATION OF BOLT ON SIGN FACE.
- INSTALL TRAIL REGULATIONS SIGNS IN VICINITY OF AT-GRADE ROAD CROSSINGS IN LOCATIONS STAKED OUT BY LANDSCAPE ARCHITECT.



GREENLINE GATEWAY SIGN ELEVATION
(FROM DRAWING X102, DETAIL 02)

NOTES:

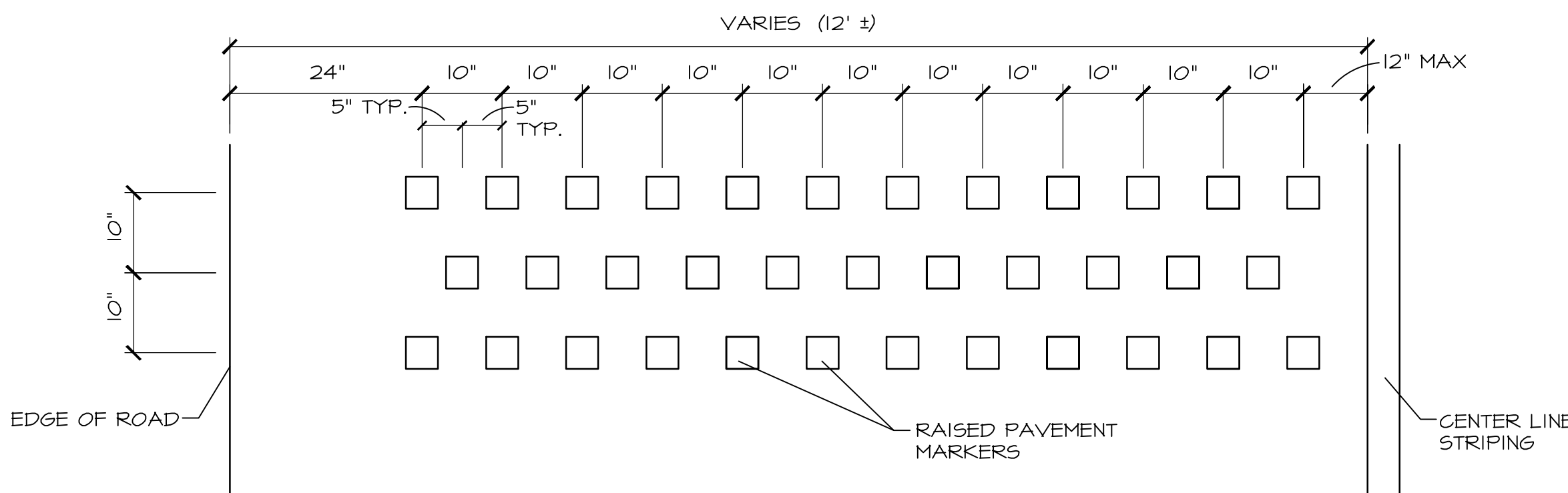
- FOR SIGN DETAILS, REFER TO 5 DRAWINGS IN APPENDIX AT END OF THIS DRAWING SET; SFFC STANDARD SIGN DETAILS.
- SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ABOVE REFERENCED DRAWINGS WITH THE FOLLOWING EXCEPTIONS:

DRAWING X102 (L-11), NOTE 1.
DELETE REFERENCE TO POWDER COATING. SIGNS SHALL BE PAINTED WITH MATTHEWS PAINT (COLORS MP 00561 LIGNITE, MP LV5202/FMS 375C, MP100010/FMS021C, MP 24508 SKY BLUE). GRAPHIC FIGURES SHALL BE RENDERED WITH ARLON 2-MIL PREMIUM CAST VINYL FILM (COLORS 02 WHITE AND T9 KIWI GREEN).

DRAWING X104 (L-5.2), DETAILS 01, 02.
DELETE REFERENCE TO COBBLE STONE, 1/2" TO 1" DIAMETER. GRAVEL BASE AT SIGN SHALL BE 1" TO 2" DIAMETER CRUSHED LIMESTONE, MEDIUM TO DARK GRAY COLOR. SUBMIT GRAVEL SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.

- IN REFERENCE TO DRAWINGS X101-X104, SHOP DRAWINGS FOR THE GATEWAY SIGN, INCLUDING DETAILED GRAPHIC LAYOUT, SHALL BE REVIEWED BY THE GATEWAY SIGN DESIGNER - JAMES CORNER FIELD OPERATIONS.
- IN REFERENCE TO DRAWING X105, SHOP DRAWINGS FOR STRUCTURAL DETAILING SHALL BE PREPARED AND STAMPED BY AN ENGINEER LICENSED IN TENNESSEE.

5
SD504 GREENLINE GATEWAY SIGN
SCALE: 1" = 2'-0"

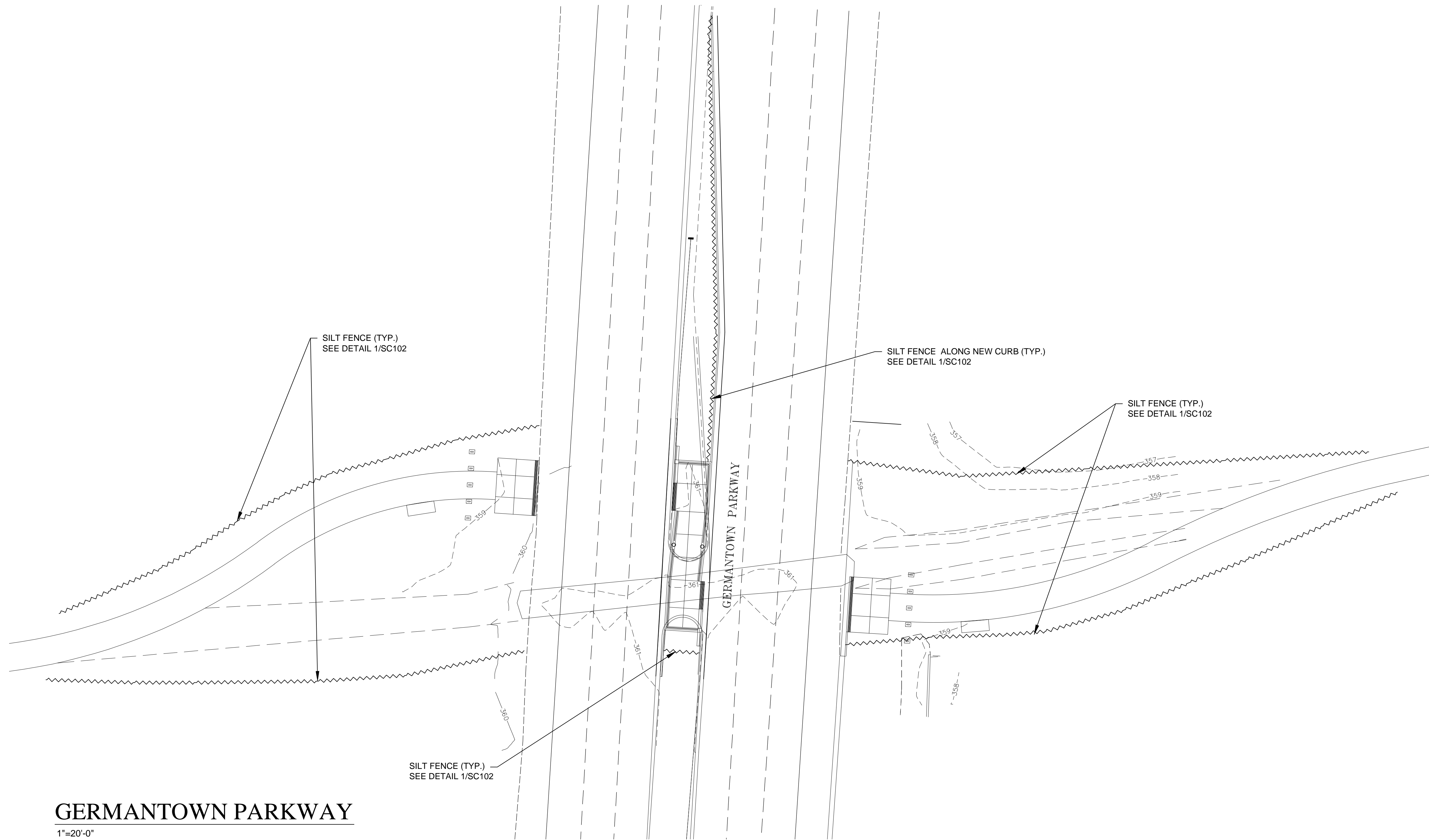


PLAN

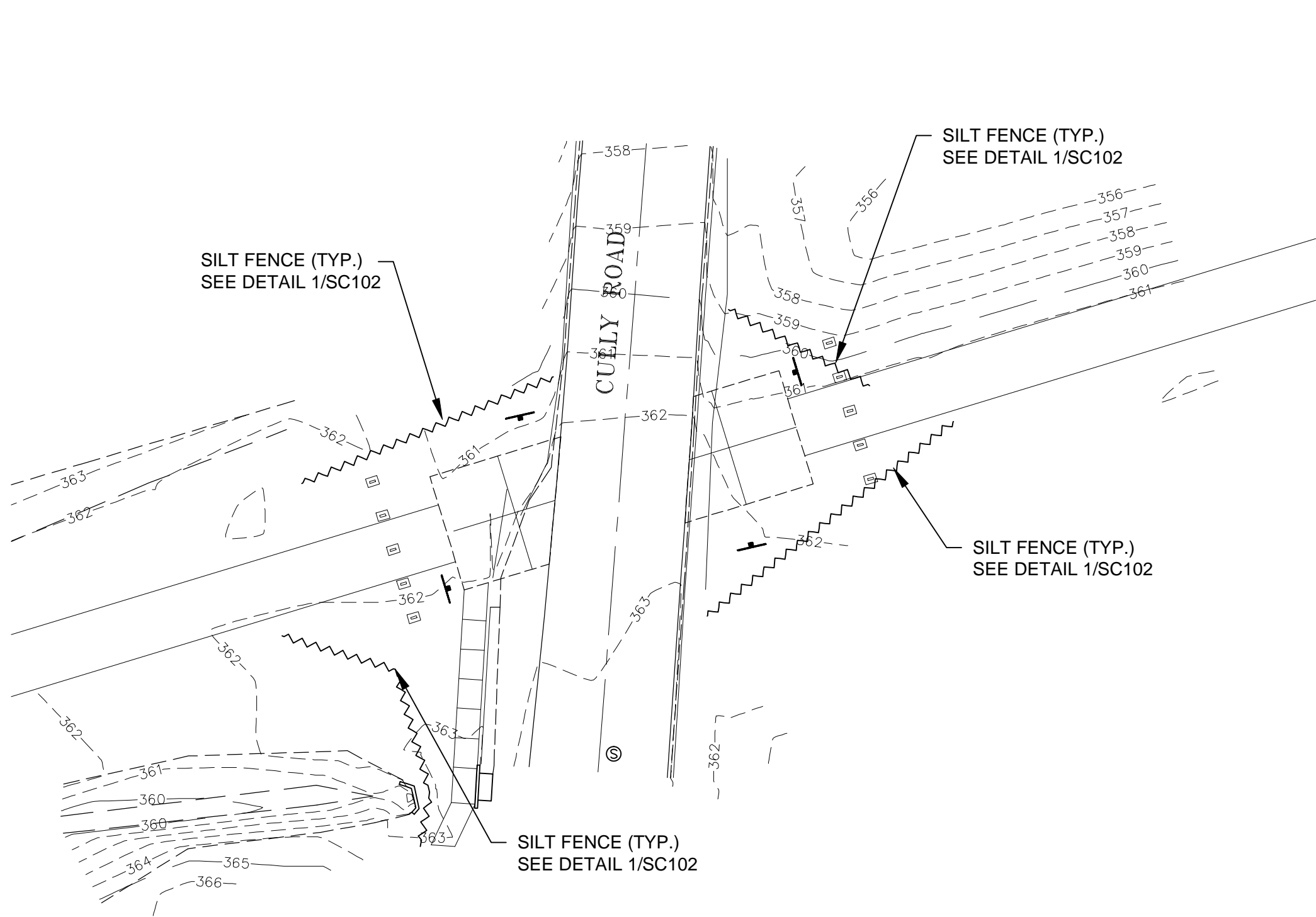
NOTES:

- RAISED PAVEMENT MARKERS TO BE MONO DIRECTIONAL, 1 COLOR LENS, WHITE COLOR.
- SECURE RAISED PAVEMENT MARKERS TO ASPHALT PAVEMENT IN PATTERN INDICATED.

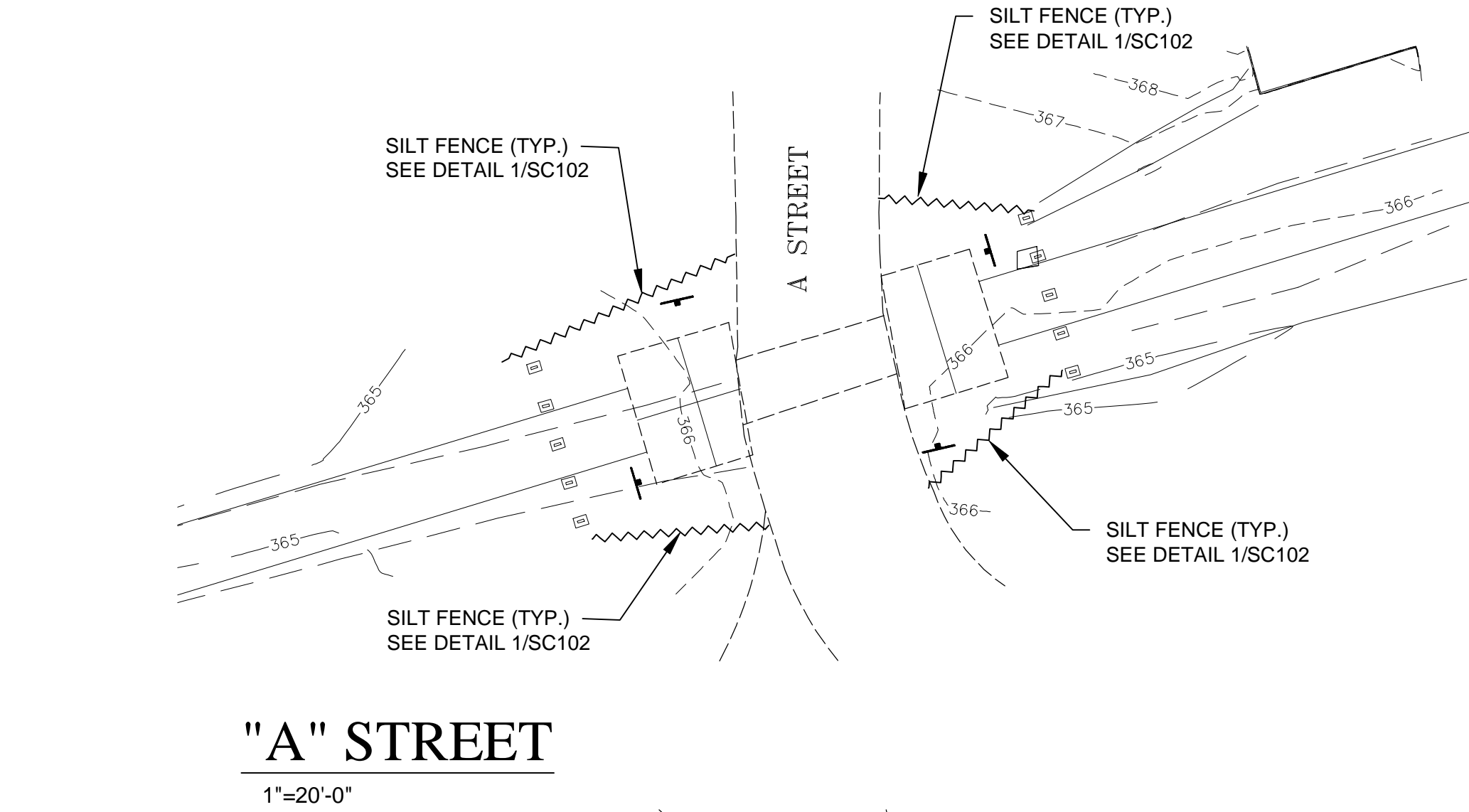
4
SD504 RAISED PAVEMENT MARKERS
SCALE: 3/4" = 1'-0"



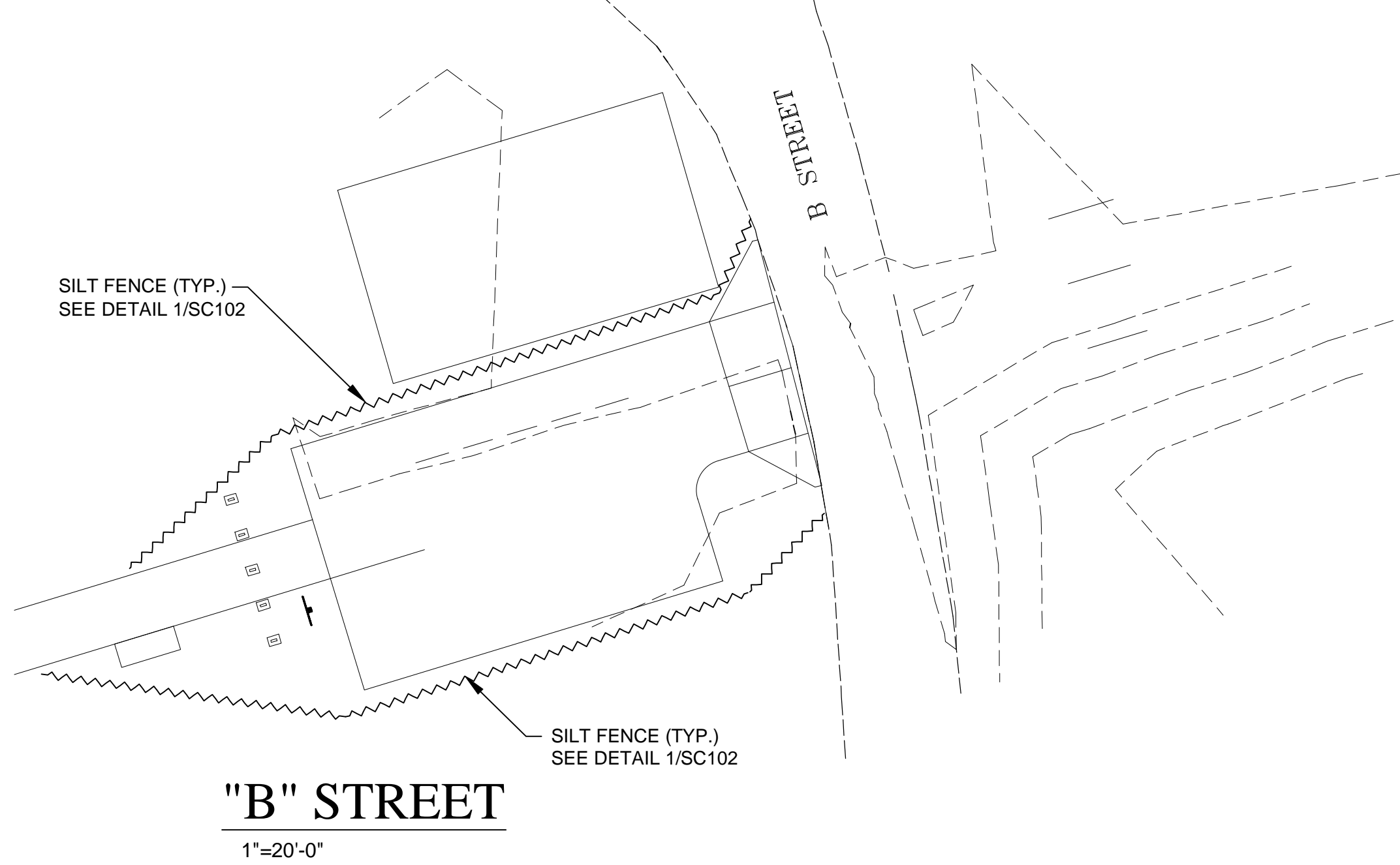
GERMANTOWN PARKWAY
1"=20'-0"



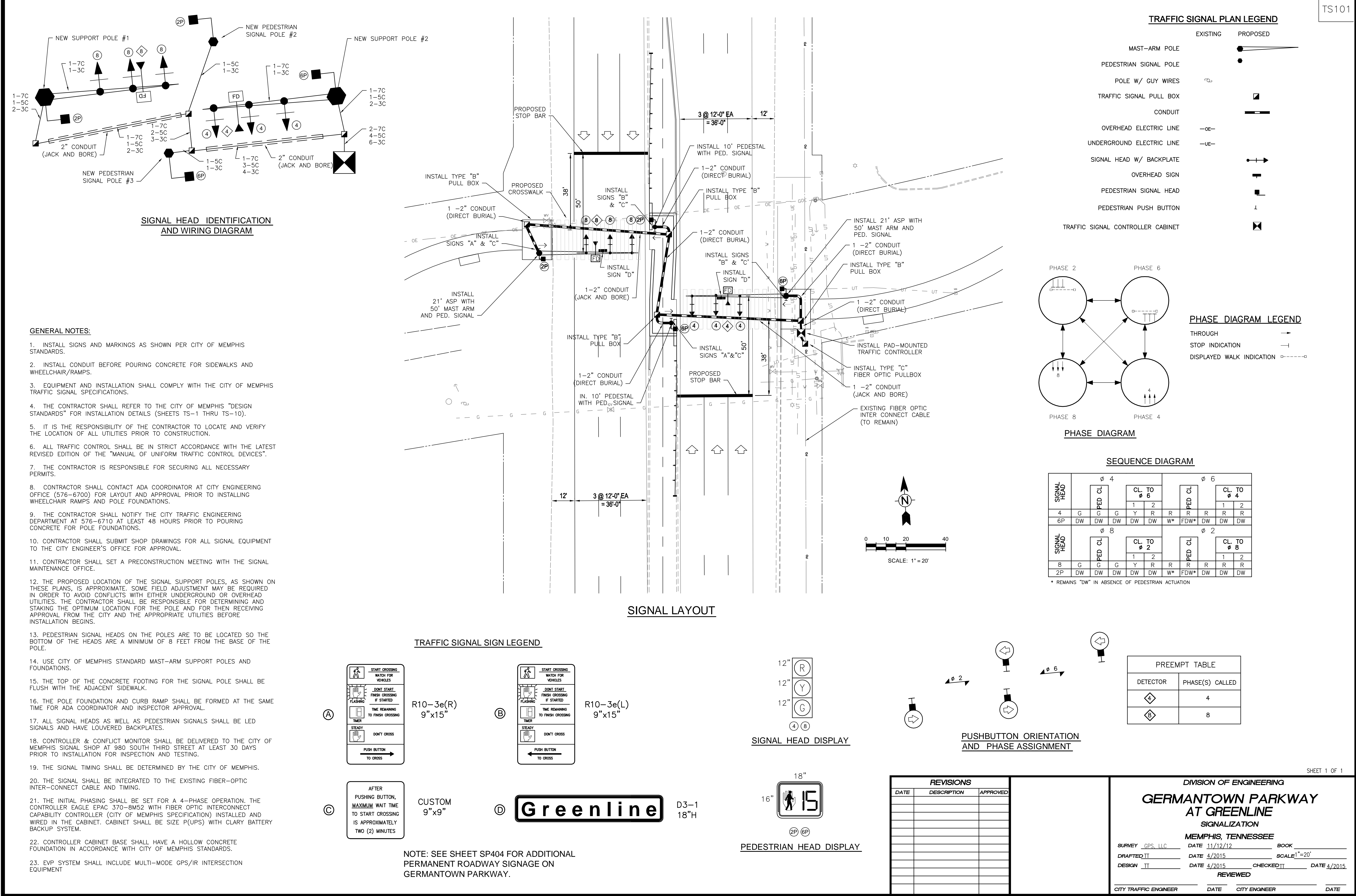
CULLY ROAD
1"=20'-0"



"A" STREET
1"=20'-0"



Monday, April 06, 2015 6:19:10 PM DRAWINGS: P:\ETR\02062200-62062-1001\CAD\SheetFiles\TS101 DWG LAYOUT: TS101 USER NAME: WILSON, LEE

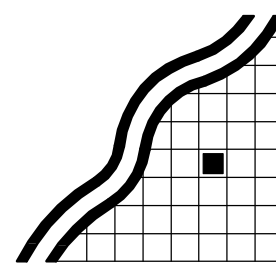


SHELBY FARMS GREENLINE - EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT



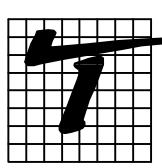
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PROJECT PHASE

FINAL DESIGN

DATE OF ISSUE

APRIL 2, 2015

REVISIONS

SEAL



DRAWN BY TT

CHECKED BY TT/DD

SHEET NO.

TS101

SHEET TITLE

SIGNALIZATION

SHEET 1 OF 1

DIVISION OF ENGINEERING

GERMANTOWN PARKWAY
AT GREENLINE
SIGNALIZATION

MEMPHIS, TENNESSEE

SURVEY GPS, LLC DATE 11/12/12 BOOK

DRAFTED IT DATE 4/2015 SCALE 1"=20'

DESIGN TT DATE 4/2015 CHECKED IT DATE 4/2015

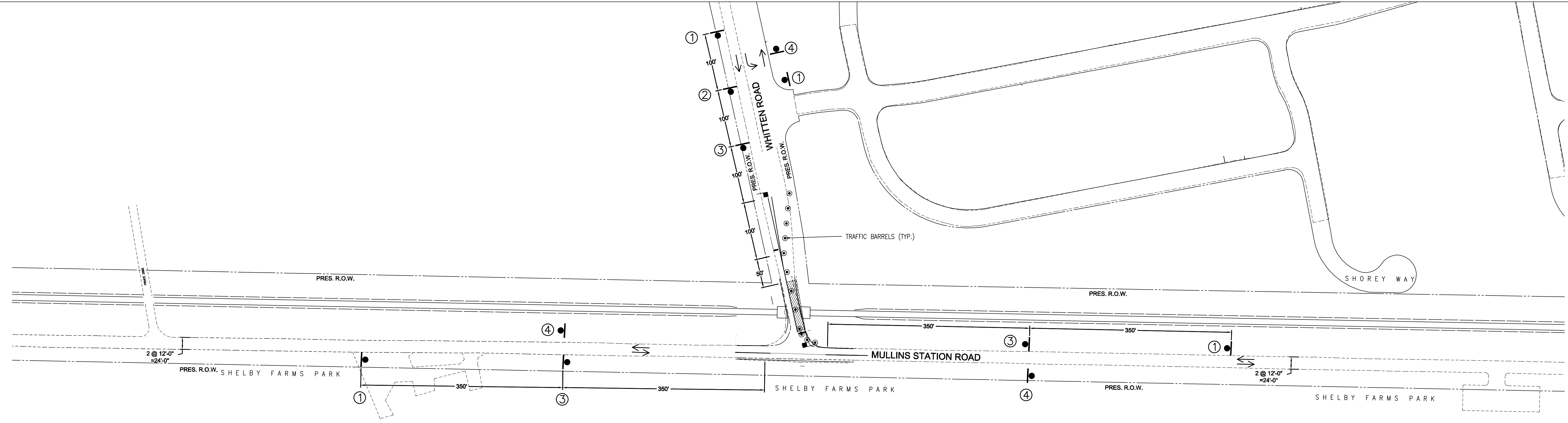
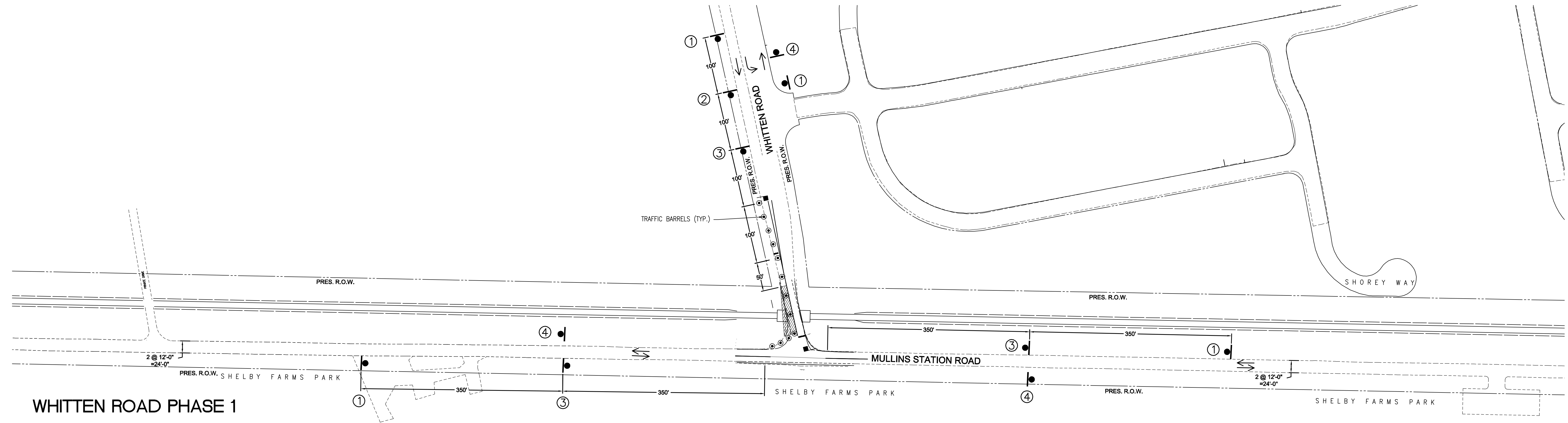
REVIEWED

CITY TRAFFIC ENGINEER DATE CITY ENGINEER DATE

TRAFFIC CONTROL PLAN NOTES

- SEE PAGE 6F-7 STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HEIGHT AND LATERAL LOCATION OF SIGNS.
- SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- NOTHING IN THIS PLAN IS INTENDED TO SUPERCEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (576-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
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- WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL IN-APPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- MAINTAIN 11 FT. CLEAR LANE WIDTH FOR TRAVELED WAY.



WHITTEN ROAD PHASE 2

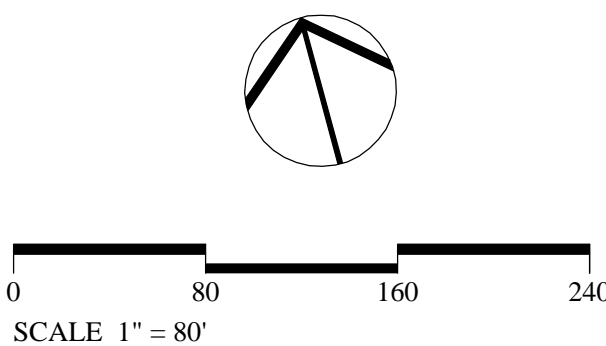
LEGEND:

SIGN	DESCRIPTION
①	ROAD WORK AHEAD W20-1 48"X48"
②	ONE LANE ROAD AHEAD W20-4 48"X48"

LEGEND:

SIGN	DESCRIPTION
③	W20-2 48"X48"
④	END ROAD WORK G20-2 36"X18"

- DRUMS w/TYPE "C" WARNING LIGHT @ 35' O.C. (MAX.) AND @ 20' MAX IN DOWNSTREAM TAPERS
- WORK AREA
- FLAGGER

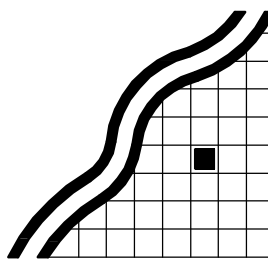


SHELBY FARMS
GREENLINE -
EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT

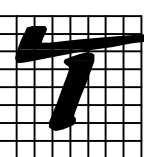


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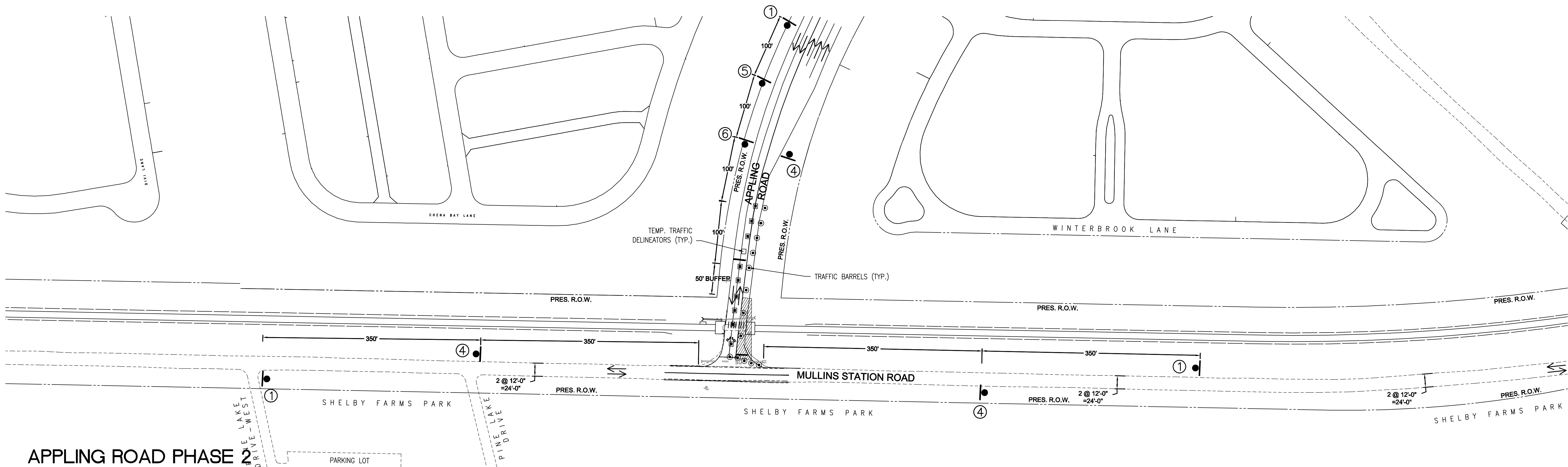
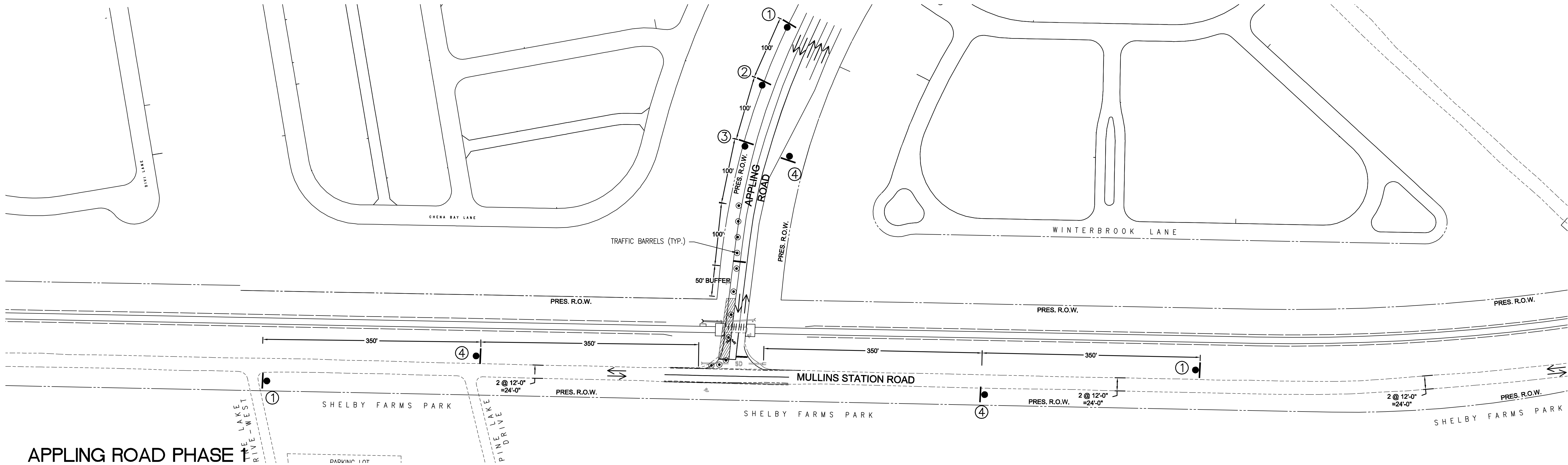
SHEET TITLE

TRAFFIC CONTROL PLAN
WHITTEN ROAD

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- MAINTAIN 11 FT. CLEAR LANE WIDTH FOR TRAVELED WAY.



LEGEND:

SIGN	DESCRIPTION
①	ROAD WORK AHEAD W20-1 48"X48"
②	RIGHT LANE CLOSED AHEAD W30-5 48"X48"

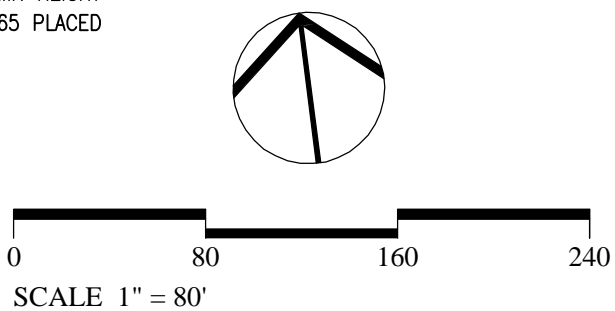
LEGEND:

SIGN	DESCRIPTION
③	W4-2R 48"X48"
④	END ROAD WORK G20-2 36"X18"

LEGEND:

SIGN	DESCRIPTION
⑤	LEFT LANE CLOSED AHEAD W20-5 48"X48"
⑥	W4-2R 48"X48" DESC

- ⑤ - DRUMS w/TYPE "C" WARNING LIGHT
⑤ 35' O.C. (MAX.) AND ⑤ 20' MAX
IN DOWNSTREAM TAPERS
- ⑥ - TUBULAR MARKERS W/ 36" MIN HEIGHT
MEETING MUTCD SECTION 6F.65 PLACED
⑥ 20' O.C. (MAX)
- ⑦ - WORK AREA

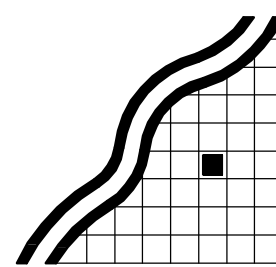


SHELBY FARMS
GREENLINE -
EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT

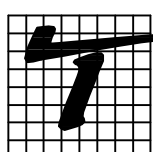


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PROJECT PHASE

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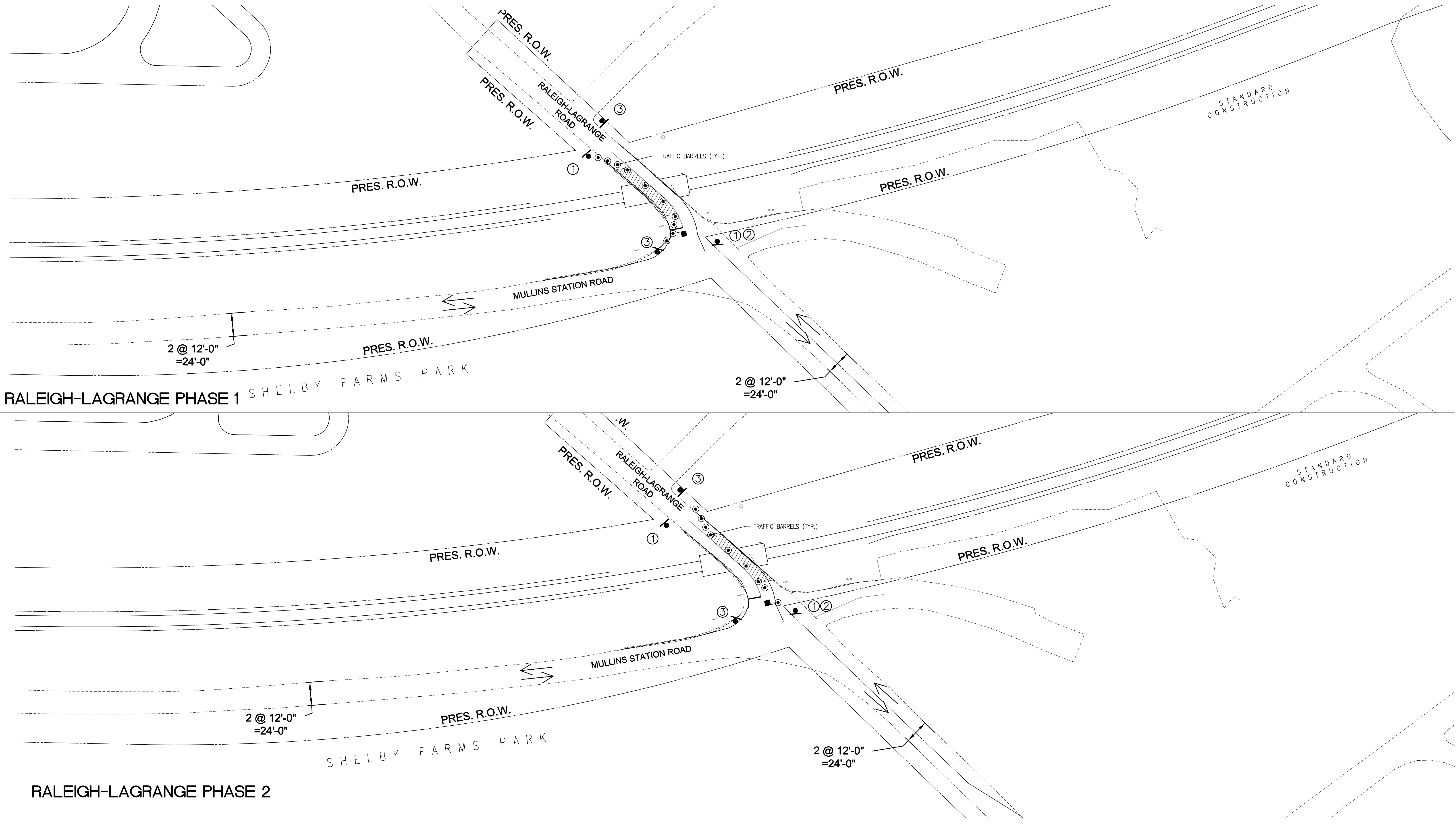
SHEET TITLE

TRAFFIC CONTROL PLAN
APPLING ROAD

TRAFFIC CONTROL PLAN NOTES

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- MAINTAIN 11 FT. CLEAR LANE WIDTH FOR TRAVELED WAY.



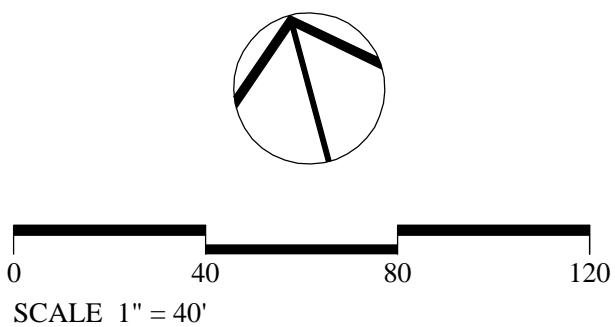
LEGEND:

SIGN	DESCRIPTION
①	ROAD WORK AHEAD W20-1 48"x48"
②	W20-7 48"x48"

LEGEND:

SIGN	DESCRIPTION
③	END ROAD WORK G20-2 36"x18"

- ⊙ - DRUMS w/TYP. "C" WARNING LIGHT @ 35' O.C. (MAX.) AND @ 20' MAX IN DOWNSTREAM TAPERS
- ▨ - WORK AREA

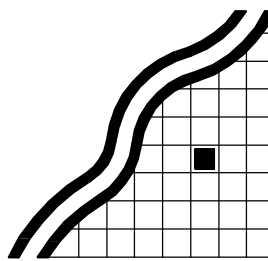


SHELBY FARMS
GREENLINE -
EAST EXTENSION

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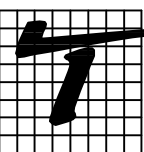


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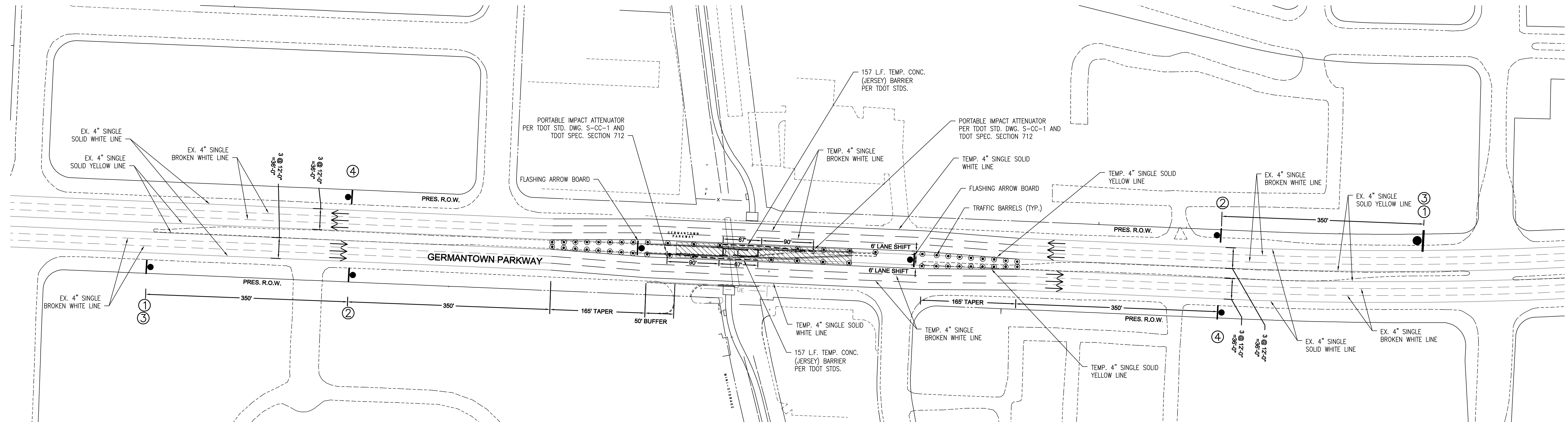
SHEET TITLE

TRAFFIC CONTROL PLAN
RALEIGH-LAGRANGE RD

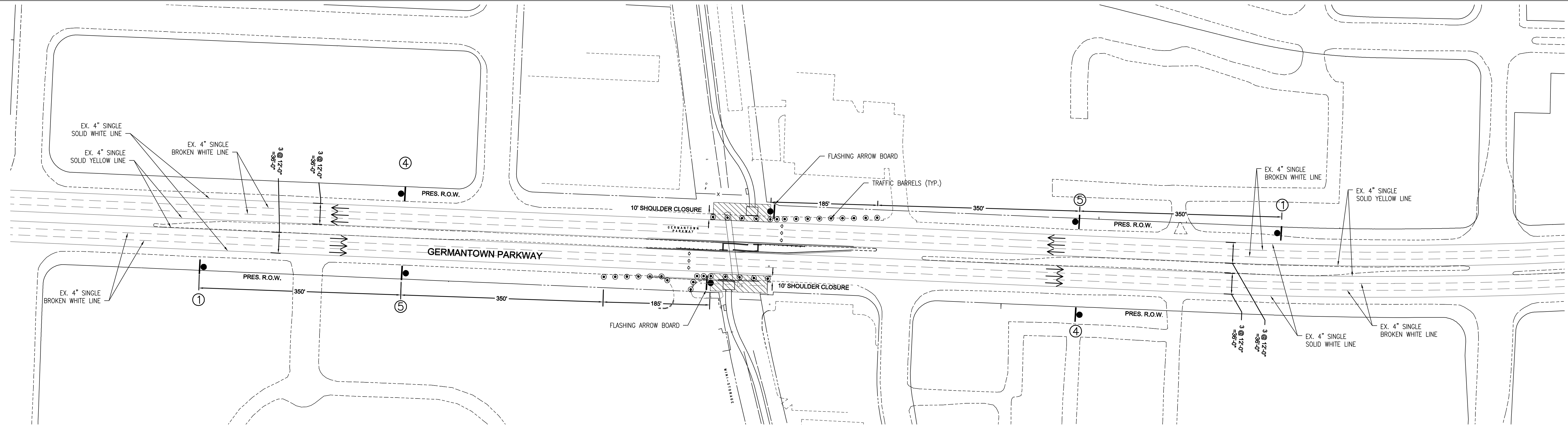
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- CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "C" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- CONTRACTOR SHALL USE FLASHING ARROW BOARD WITH WARNING CONFIGURATION MEETING TDOT STANDARD DRAWING T-FAB-1.

- CONTRACTOR SHALL COVER OR REMOVE ALL EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS AND DEVICES DURING CONSTRUCTION UNTIL SUCH TIME THAT NO CONFLICT EXIST, AT WHICH TIME THE CONTRACTOR SHALL UNCOVER OR REPLACE ALL EXISTING SIGNS AND PAVEMENT MARKINGS.
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- FOR PHASE 2, WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL IN-APPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- IF CONTRACTOR DEEMS FULL LANE CLOSURE OF INTERIOR LANE IS NECESSARY, CONTRACTOR WILL NEED TO PROVIDE TRAFFIC CONTROL FOR SAID LANE CLOSURE MEETING MUTCD REQUIREMENTS.
- MAINTAIN 12 FT. CLEAR LANE WIDTHS FOR TRAVELED WAY.



GERMANTOWN PARKWAY PHASE 1



GERMANTOWN PARKWAY PHASE 2

LEGEND:

SYMBOL	DESCRIPTION
① →	ROAD WORK AHEAD W20-1 48"X48"
② →	W24-1BR 36" X 36"

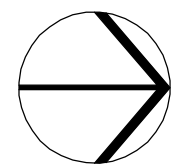
LEGEND:

SYMBOL	DESCRIPTION
③ →	TRUCKS USE LEFT 2 LANES R4-5 36" X 48"
④ →	END ROAD WORK G20-2 36"X18"

LEGEND:

SYMBOL	DESCRIPTION
⑤ →	RIGHT SHOULDER CLOSED W21-5AR 48"X48"

- - DRUMS w/TYPE "C" WARNING LIGHT @ 35' O.C. (MAX) AND @ 20' MAX IN DOWNSTREAM TAPERS
- - WORK AREA



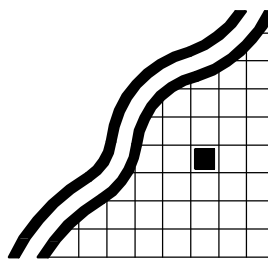
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SCALE 1" = 80'

SHELBY FARMS
GREENLINE -
EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT

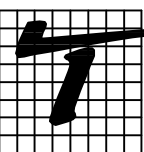


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PROJECT PHASE

FINAL DESIGN

DATE OF ISSUE

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REVISIONS

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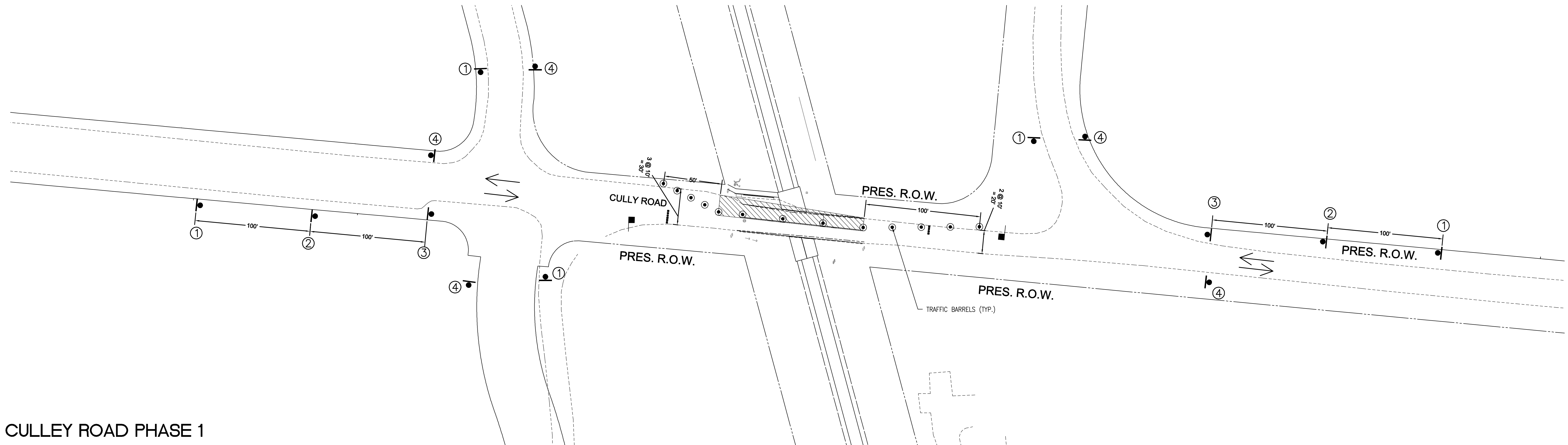
SHEET TITLE

TRAFFIC CONTROL PLAN
GERMANTOWN PKWY

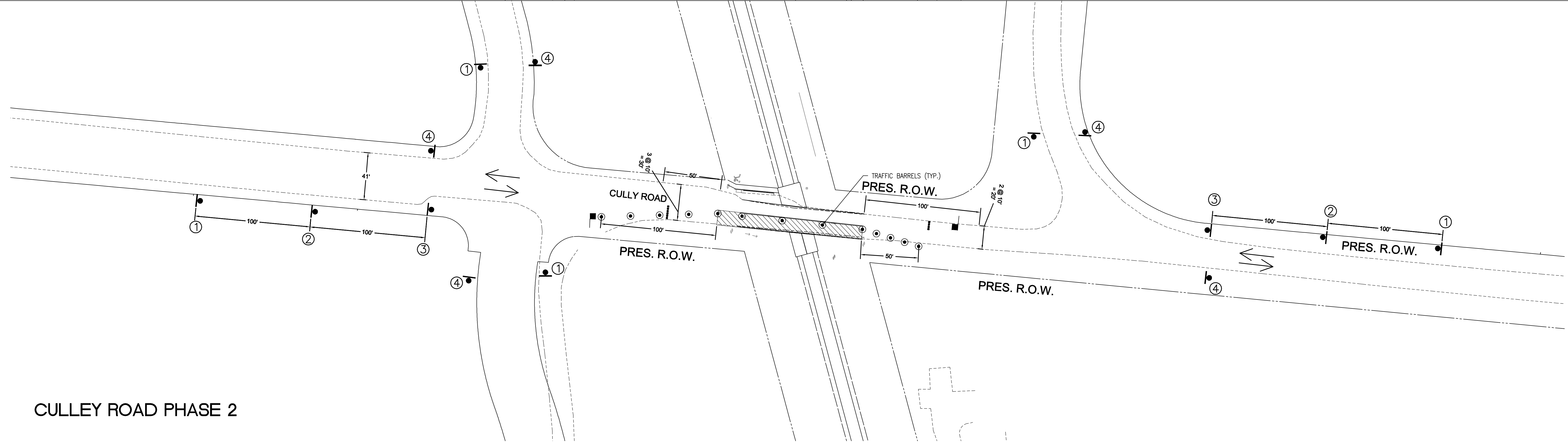
TRAFFIC CONTROL PLAN NOTES

- SEE PAGE 6F-7 STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HEIGHT AND LATERAL LOCATION OF SIGNS.
- SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- NOTHING IN THIS PLAN IS INTENDED TO SUPERCEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (576-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
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- DRUMS WITH TYPE "C" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA.

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- MAINTAIN 11 FT. CLEAR LANE WIDTH FOR TRAVELED WAY.



CULLEY ROAD PHASE 1



CULLEY ROAD PHASE 2

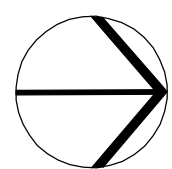
LEGEND:

SIGN	DESCRIPTION
①	ROAD WORK AHEAD W20-1 48"X48"
②	ONE LANE ROAD AHEAD W20-4 48"X48"

LEGEND:

SIGN	DESCRIPTION
③	W20-2 36"X48"
④	END ROAD WORK G20-2 36"X18"

- - DRUMS w/TYPE "C" WARNING LIGHT
- 35' O.C. (MAX.) AND ○ 20' MAX IN DOWNSTREAM TAPERS
- - WORK AREA
- - FLAGGER



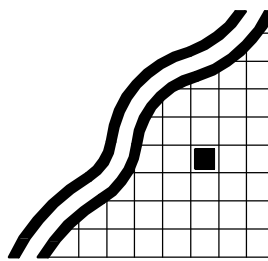
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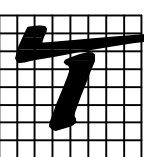


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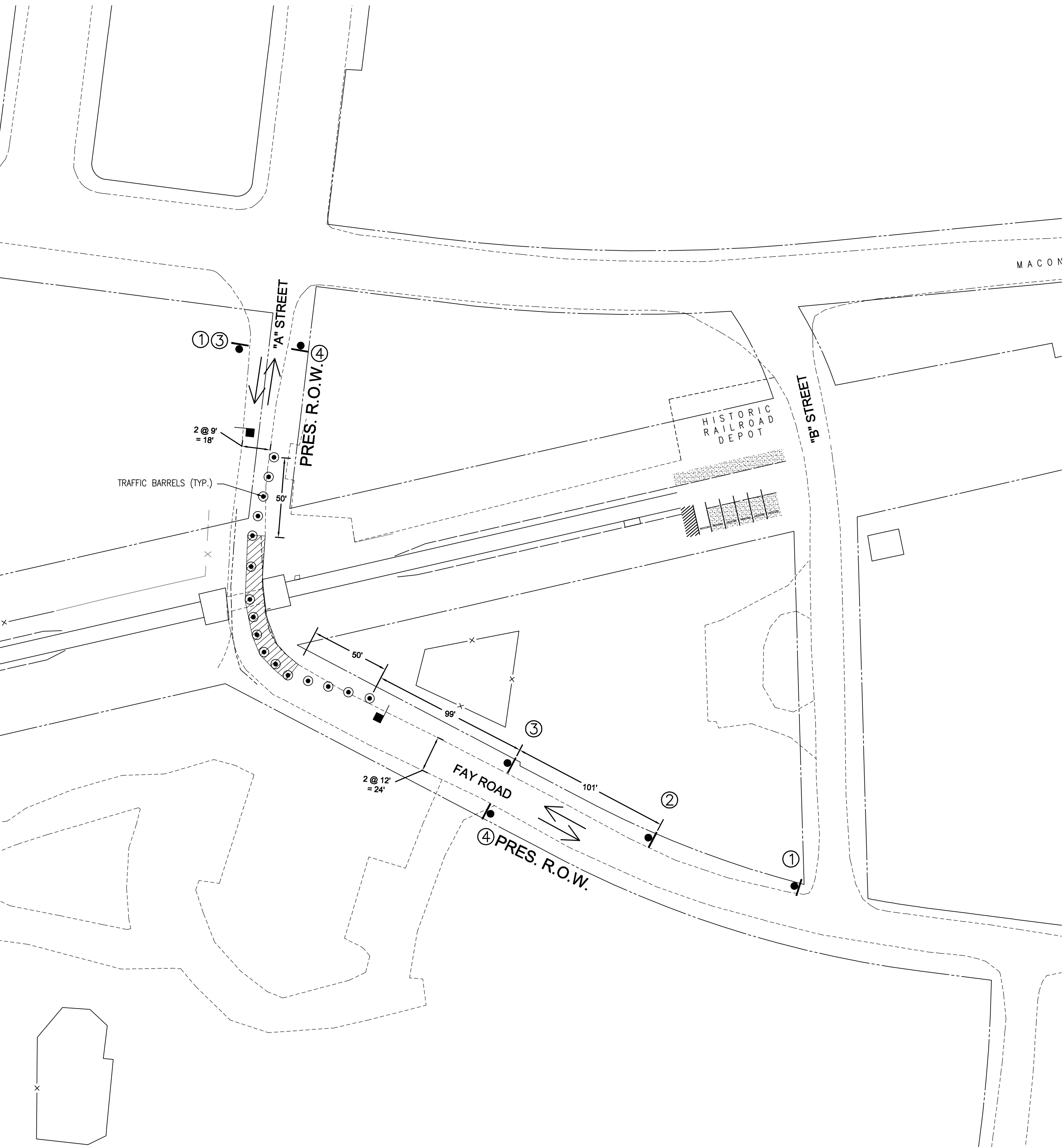
SHEET TITLE

TRAFFIC CONTROL PLAN
CULLEY ROAD

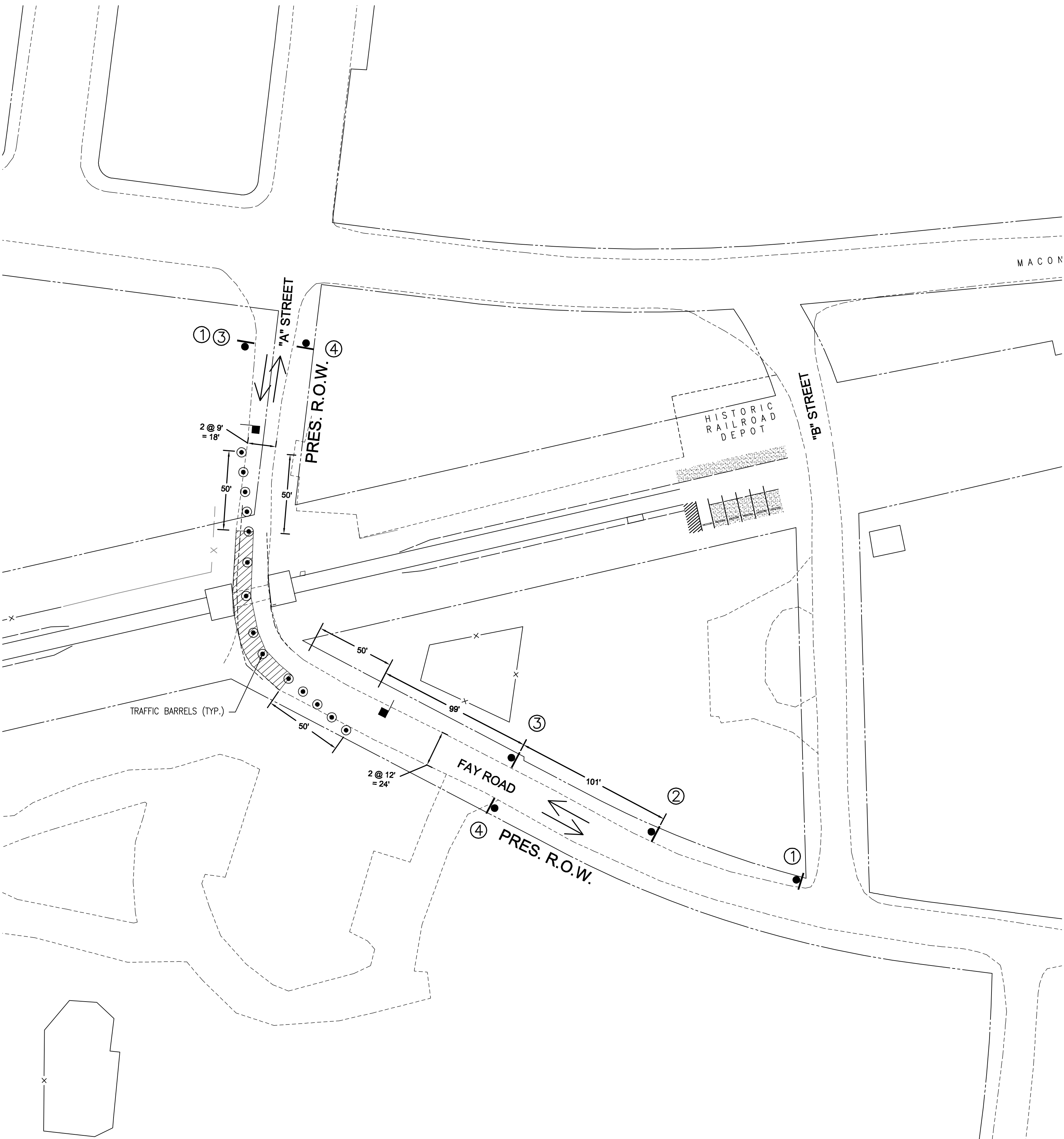
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"A" STREET PHASE 1



"A" STREET PHASE 2

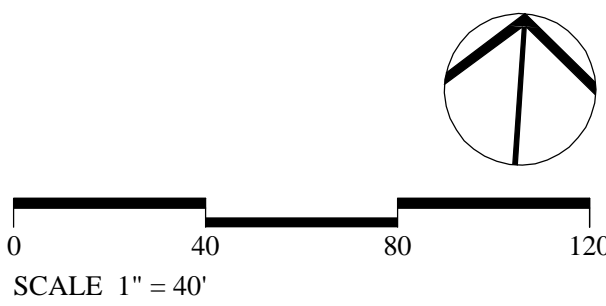
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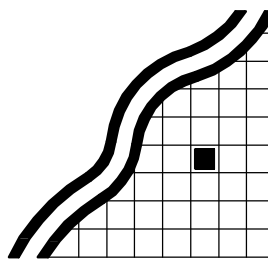


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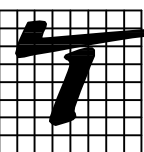


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TC106

SHEET TITLE

TRAFFIC CONTROL PLAN
"A" STREET

GENERAL NOTES

- A. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWING READER'S CONVENIENCE. SEE ALSO INDIVIDUAL DRAWING NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- B. ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWINGS.
- C. ABBREVIATIONS:
- | | | | | | |
|-----------|-------------------------|---------|---------------------|---------|------------------------------|
| A.B. | - ANCHOR BOLT | EXTG. | - EXISTING | N.F. | - NEAR FACE |
| ADD'L | - ADDITIONAL | F.D. | - FLOOR DRAIN | N.T.S. | - NOT TO SCALE |
| A.R. | - ANCHOR ROD | F.F. | - FAR FACE | O/C | - ON CENTER |
| ALT. | - ALTERNATE | FLG. | - FLANGE | O.D. | - OUTSIDE DIAMETER |
| ALUM. | - ALUMINUM | FLR. | - FLOOR | OPNG | - OPENING |
| APPROX. | - APPROXIMATE | FND. | - FOUNDATION | PL | - PLATE |
| ARCH. | - ARCHITECT(URAL) | F.S. | - FAR SIDE | PLF | - POUNDS PER LINEAR FOOT |
| @ | - AT | FT. | - FOOT, FEET | PSF | - POUNDS PER SQUARE FOOT |
| BLDG. | - BUILDING | FTG. | - FOOTING | PSI | - POUNDS PER SQUARE INCH |
| BM. | - BEAM | F.V. | - FIELD VERIFY | RAD. | - RADIUS |
| B.O. | - BOTTOM OF | GA. | - GAGE | REINF. | - REINFORCEMENT |
| B.O.S. | - BOTTOM OF STEEL | GALV. | - GALVANIZED | REQ'D. | - REQUIRED |
| BRG. | - BEARING | GR. | - GRADE | REV. | - REVISED/REVISION |
| c/c | - CENTER TO CENTER | GRTG. | - GRATING | SEC. | - SECTION |
| CFS | - COLD FORMED STEEL | HORIZ. | - HORIZONTAL | SCHED. | - SCHEDULE |
| C.J. | - CONTROL JOINT | H.P. | - HIGH POINT | SHT | - SHEET |
| CL | - CENTERLINE | H.R. | - HANDRAIL | S.J.I. | - STRUCTURAL JOIST INSTITUTE |
| CLR. | - CLEAR | HT. | - HEIGHT | SIM. | - SIMILAR |
| CMU | - CONCRETE MASONRY UNIT | I.F. | - INSIDE FACE | SPA. | - SPACE |
| COL. | - COLUMN | I.F. | - INSIDE FACE | SPEC. | - SPECIFICATION |
| CONC. | - CONCRETE | I.J. | - ISOLATED JOINT | SQ. | - SQUARE |
| CONST. | - CONSTRUCTION | IN. | - INCH | S.S. | - STAINLESS STEEL |
| CONT. | - CONTINUOUS | INV. | - INVERT | STAG. | - STAGGER |
| CTR. | - CENTER | JNT. | - JOINT | STD. | - STANDARD |
| DBA | - DEFORMED BAR ANCHOR | JST. | - JOIST | STL. | - STEEL |
| DET. | - DETAIL | L | - ANGLE | STR. | - STRAIGHT |
| DEMO | - DEMOLITION | LLH | - LONG LEG HORIZ. | STRUCT. | - STRUCTURAL |
| DIA./Ø | - DIAMETER | LLV | - LONG LEG VERT. | S.W. | - SHEAR WALL |
| DIM. | - DIMENSION | LG. | - LONG | TEMP. | - TEMPERATURE |
| DN | - DOWN | LONGIT. | - LONGITUDINAL | T/ | - TOP OF |
| 60 | - DITTO | L.P. | - LOW POINT | T.O.S. | - TOP OF STEEL |
| DWG. | - DRAWING | LYR. | - LAYER | TRANSV. | - TRANSVERSE |
| DWL | - DOWEL | LWR. | - LOWER | TYPICAL | - TYPICAL |
| EA. | - EACH | MATL. | - MATERIAL | U.N.O. | - UNLESS NOTED OTHERWISE |
| E.F. | - EACH FACE | MAX. | - MAXIMUM | VERT. | - VERTICAL |
| E.J. | - EXPANSION JOINT | MECH. | - MECHANICAL | V.I.F. | - VERIFY IN FIELD |
| EL./ELEV. | - ELEVATION | MFR. | - MANUFACTURER | VS. | - VALLEY SET |
| ELEC. | - ELECTRICAL | MID. | - MIDDLE / MIDPOINT | w/ | - WITH |
| EMB. | - EMBED / EMBEDMENT | MIN. | - MINIMUM | WD. | - WOOD |
| EQ. | - EQUAL | MISC. | - MISCELLANEOUS | W/O | - WITHOUT |
| E.W. | - EACH WAY | MTL. | - METAL | W.P. | - WORK POINT |
| EXP. | - EXPANSION | NEC. | - NECESSARY | WWF | - WELDED WIRE FABRIC |
- D. ALL EXISTING DIMENSIONS SHOWN WITH THE ± SYMBOL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
- E. DIMENSIONS MARKED WITH A "X" SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER.
- F. SUBMIT SHOP DRAWINGS, PROJECT DATA AND SAMPLES AS SPECIFIED IN PROJECT SPECIFICATIONS.

STRUCTURAL LUMBER AND TIMBER

- A. SAWN LUMBER:
- ALL LOAD-BEARING MEMBERS SHALL HAVE THE MINIMUM STRENGTH REQUIREMENTS EQUIVALENT TO SOUTHERN PINE, NO. 2 GRADE AS LISTED IN "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS), WITH A MAXIMUM MOISTURE CONTENT OF 19%.
 - WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE MANUAL OF RECOMMENDED PRACTICE OF THE AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS (AWPA).
 - CUTTING OR NOTCHING IS NOT ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
 - SEE SPECIFICATIONS.
- B. MECHANICAL FASTENERS:
- STRUCTURAL BOLTS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. HOLES SHALL BE DRILLED NOT MORE THAN 1/16" LARGER THAN BOLT DIAMETER.
 - COMMON WIRE NAILS OR SPIKES SHALL CONFORM TO ASTM F1607. WHERE BORED HOLES ARE PROVIDED TO PREVENT SPLITTING OF WOOD, THE DIAMETER OF THE BORED HOLE SHALL NOT EXCEED SEVENTY FIVE PERCENT (75%) OF THE NAIL OR SPIKE DIAMETER. TOE NAILS SHALL BE DRIVEN AT AN ANGLE 30° FROM THE FACE OF ATTACHED MEMBER AND STARTED ONE-THIRD (1/3) THE LENGTH OF THE NAIL FROM MEMBER END.
- C. CREOSOTE TIMBERS
- ALL CREOSOTE TIMBERS TO BE REPLACED SHALL BE TRANSPORTED TO AND DISPOSED OF IN A PERMITTED CLASS 1 LANDFILL AS SPECIAL WASTE. BEFORE DISPOSAL, A SPECIAL WASTE PROFILE IDENTIFYING THE MATERIAL AS WEATHERED, TREATED WOOD MUST BE SUBMITTED TO THE LANDFILL OPERATOR; HOWEVER, IT IS NOT NECESSARY TO SUBMIT A WASTE PROFILE TO TDEC.
 - OWNER MAY OPT TO STOCKPILE EXISTING TREATED BRIDGE DECK TIMBERS FOR RE-USE ELSEWHERE. COORDINATE DISPOSITION OF DECK TIMBERS WITH OWNER PRIOR TO DEMOLITION OF BRIDGE DECK.
 - ALL CUT-OFFS, CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AN AWPA ACCEPTED PRESERVATIVE SYSTEM, DETERMINED APPROPRIATE IN ACCORDANCE WITH AWPA STANDARD M4.
 - FIELD TREATMENT PRESERVATIVES SHALL BE APPLIED IN ACCORDANCE WITH THE PRODUCT LABEL. THE APPLICATION METHOD SHALL COAT ANY SURFACE THAT IS EXPOSED BY DAMAGE OR FIELD FABRICATION WHILE NOT USING EXCESS PRESERVATIVE. ANY EXCESS PRESERVATIVE NOT ABSORBED BY THE WOOD PRODUCT SHALL BE CLEANED FROM THE SURFACE PRIOR TO THE USE OF THE PRODUCT. BORED HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL-TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE. CAREFUL ATTENTION SHOULD BE GIVEN TO MATERIALS PLACED INTO AQUATIC ENVIRONMENTS. THESE MATERIALS SHALL NOT BE USED UNLESS THE FIELD TREATED SURFACE IS CLEAN, DRY AND FREE OF EXCESS PRESERVATIVE.
 - FOUNDATION TIMBER PILING CUT OFF TO GRADE OR NEAR GRADE WHICH WILL BE CONCRETE CAPPED, SHALL BE TREATED WITH A LIBERAL APPLICATION OF COPPER NAPHTHENATE UNTIL VISIBLE EVIDENCE OF FURTHER PENETRATION HAS CEASED. THIS CUT-OFF SURFACE IS AN IMPORTANT STRESS TRANSFER POINT FROM THE CONCRETE CAP TO THE PILES. THE COPPER NAPHTHENATE SOLUTION MUST HAVE MINIMUM 2.0% COPPER METAL.
 - WHEN HANDLING CREOSOTE TIMBERS PROTECTIVE GLOVES AND CLOTHING SHALL BE WORN. EXTENSIVE GUIDELINES FOR THE HANDLING, STORAGE, AND TREATMENT OF CREOSOTE TIMBERS MAY BE FOUND IN AWPA STANDARD M4.

STRUCTURAL STEEL

- A. REFERENCES:
- AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION
 - AWS D1.1 STRUCTURAL WELDING CODE - STEEL
- B. MATERIALS:
- CHANNELS, ANGLES AND PLATES: ASTM A36
 - HOLLOW STEEL SECTIONS: ASTM A500 GRADE B
 - ANCHOR BOLTS: ASTM F1554, GRADE 55, WELDABLE
 - WELDS: E70XX ELECTRODES
- C. CONNECTIONS:
- AISC MANUAL STANDARD CONNECTIONS UNLESS NOTED. HIGH-STRENGTH BOLTS: ASTM A325-N, 3/4" UNLESS NOTED OTHERWISE. BEARING TYPE INSTALLED IN CONFORMANCE WITH "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"; RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS. UNLESS NOTED OTHERWISE, STANDARD AISC "USUAL GAGE" DIMENSIONS SHALL BE USED FOR LOCATING HOLES FOR BOLTS, EXPANSION ANCHORS, ETC. IN ALL ANGLES, BEAM FLANGES, ETC.
 - THE ASSEMBLY SURFACE, INCLUDING THOSE ADJACENT TO THE WASHER, SHALL BE FREE OF MILL SCALE, OIL, PAINT OR OTHER COATINGS.
 - ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A BOLT TENSION NOT LESS THAN THAT SPECIFICATION IN THE AISC MANUAL. FULL TENSIONING SHALL BE BY THE TURN OF NUT METHOD, BY A DIRECT TENSION INDICATOR, OR BY PROPERLY CALIBRATED WRENCHES. PROVIDE HARDENED WASHERS UNDER THE NUT OR BOLT HEAD, WHICHEVER IS THE ELEMENT TURNED IN TIGHTENING.
 - WELDING - PERFORM ALL WELDING IN ACCORDANCE WITH AWS D1.1 CODE, LATEST EDITION. WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY AWS IN PERFORMING THE TYPE OF WORK INDICATED.
- D. TOLERANCES:
- AISC CODE OF STANDARD PRACTICE (LATEST EDITION).
- E. PAINTING :
- AFTER MATERIAL HAS BEEN PROPERLY CLEANED AND TREATED, APPLY SHOP PRIME COAT TO ALL SURFACES, EXCEPT THOSE INTENDED FOR EMBEDMENT INTO CONCRETE OR TO RECEIVE FIELD WELDING, SLIP CRITICAL BOLTS, OR CEMENTITIOUS FIREPROOFING.

MINIMUM FASTENING SCHEDULE		
CONNECTION	FASTENING	LOCATION
1. BALLAST RETAINER TO 8 1/2" X 5" TIMBER	1-3/4" Ø GALVANIZED BOLT	CENTERED IN BALLAST RETAINER @ 30"
2. 8 1/2" X 5" TIMBER DECK TO STRINGER	1-1/2" Ø X 10" LONG GALVANIZED LAG SCREW WITH WASHER	CENTERED IN DECK BOARD AND END STRINGER
3. STRINGER TO PILE CAP	1-3/4" Ø X 6" LONG GALVANIZED LAG SCREWS	THROUGH EXISTING ANGLE CENTERED ON STRINGER
4. PILE CAP TO PILE	1-1" Ø X 24" SPIRAL DOWELS	CENTERED IN PILE CAP AND PILE
5. HORIZONTAL/DIAGONAL BRACE TO PILE	1-7/8" Ø GALVANIZED THROUGH BOLTS	CENTERED IN PILE AND BRACE MEMBER
6. 8 1/2" X 5" TIMBER TO FLANGE NAILER AT WOLF RIVER BRIDGE	1-1/2" Ø X 7" GALVANIZED LAG SCREWS	CENTERED ON DECK BOARD AND FLANGE NAILER
7. TOP NALER TO 8 1/2" X 5" TIMBER AT WOLF RIVER BRIDGE	2-CORROSION RESISTANT WOOD SCREWS #8 - 2IN.	FACE OF NAILER WITH SUFFICIENT EDGE DISTANCE TO PREVENT SPLITTING
8. 2x6 DECKBOARD TO TOP NALER AT WOLF RIVER BRIDGE	2-CORROSION RESISTANT WOOD SCREWS #8 - 4IN.	FACE OF NAILER WITH SUFFICIENT EDGE DISTANCE TO PREVENT SPLITTING

TDOT MATERIALS CERTIFICATION

ALL MATERIALS MUST BE CERTIFIED BY TDOT PRIOR TO INSTALLATION.

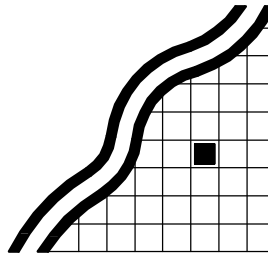
SHELBY FARMS
GREENLINE -
EAST EXTENSION

SHELBY COUNTY GOVERNMENT
LOCALLY MANAGED PROJECT



TETRA TECH

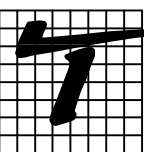
www.tetratech.com
65 UNION AVENUE, SUITE 300
MEMPHIS, TN 38103
PHONE: (901) 523-9500



Ritchie Smith Associates

Planning
Landscape Architecture
Urban Design

▲ 65 Union Avenue
Suite 1140
Memphis, TN 38103
Phone 901 525-1198
Fax 901 525-1190



TOLES & ASSOCIATES, INC.

CIVIL ENGINEERING
2851 LAMB PLACE • SUITE 2 • MEMPHIS, TN 38118
TELEPHONE 901-794-9815 • FAX 901-794-9817

PROJECT PHASE

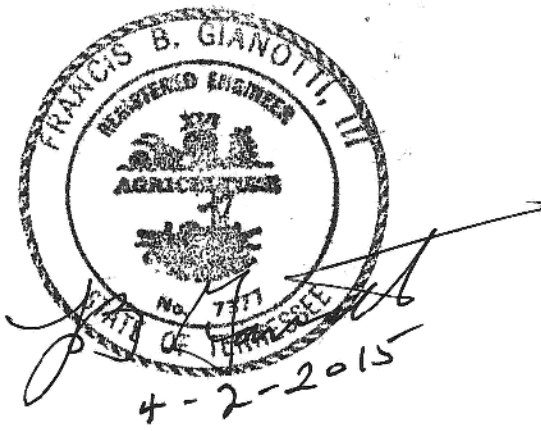
FINAL DESIGN

DATE OF ISSUE

APRIL 2, 2015

REVISIONS

SEAL



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SHEET NO.

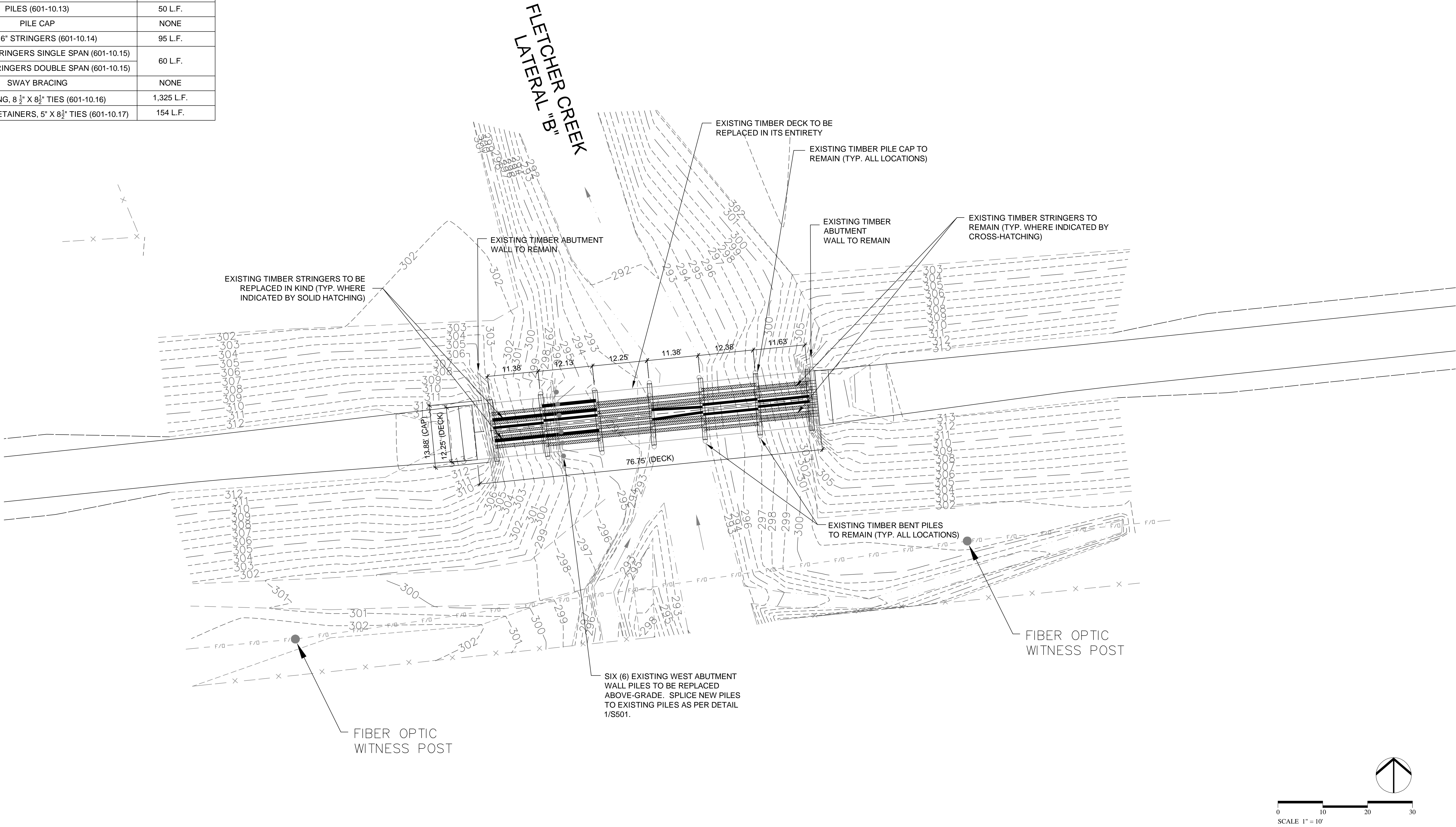
S100

SHEET TITLE


GENERAL NOTES

- NOTES
1. ALL BRIDGE DECKING AND BALLAST RETAINERS ARE TO BE REPLACED.
 2. SUBSTRUCTURE AND SUPERSTRUCTURE ELEMENTS SHOWN BOLD ARE TO BE REPLACED IN KIND.
 3. PILES ARE TO BE CUT AND SPLICED AT POINTS BELOW EXISTING GROUNDLINE DECAY WHERE TIMBER IS FREE OF DEFECTS.
 4. THE REMOVAL OF THE MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL LUMBER AND TIMBER NOTES SHOWN ON S100.
 5. ALL SIZES AND LENGTHS ARE TO BE FIELD VERIFIED BEFORE REPLACEMENT.
 6. THE CONTRACTOR SHALL INFORM THE ENGINEER OF DECK REMOVAL TO ALLOW FOR ON SITE INSPECTION OF STRINGERS ONCE EXPOSED.

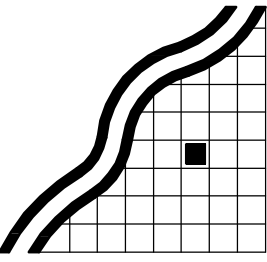
REPLACEMENT SCHEDULE	
MEMBER	EST. QUANTITY
PILES (601-10.13)	50 L.F.
PILE CAP	NONE
6" X 16" STRINGERS (601-10.14)	95 L.F.
8" X 16" STRINGERS SINGLE SPAN (601-10.15)	60 L.F.
8" X 16" STRINGERS DOUBLE SPAN (601-10.15)	
SWAY BRACING	NONE
DECKING, 8 ½" X 8 ½" TIES (601-10.16)	1,325 L.F.
BALLAST RETAINERS, 5" X 8 ½" TIES (601-10.17)	154 L.F.

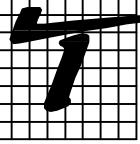


FLETCHER CREEK LATERAL "B" BRIDGE

**TETRA TECH**

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PHONE: (901) 523-9500


Ritchie Smith Associates
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Landscape Architecture
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Memphis, TN 38103
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PROJECT PHASE
FINAL DESIGN

DATE OF ISSUE
APRIL 2, 2015

REVISIONS

SEAL



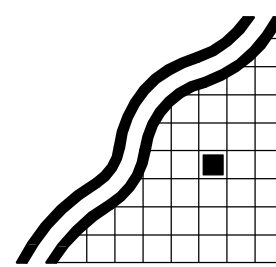
DRAWN BY **TT** CHECKED BY **TT/DC**

SHEET NO.
S101

SHEET TITLE
**BRIDGE
RESTORATION PLAN**

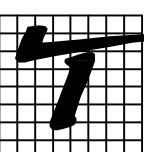


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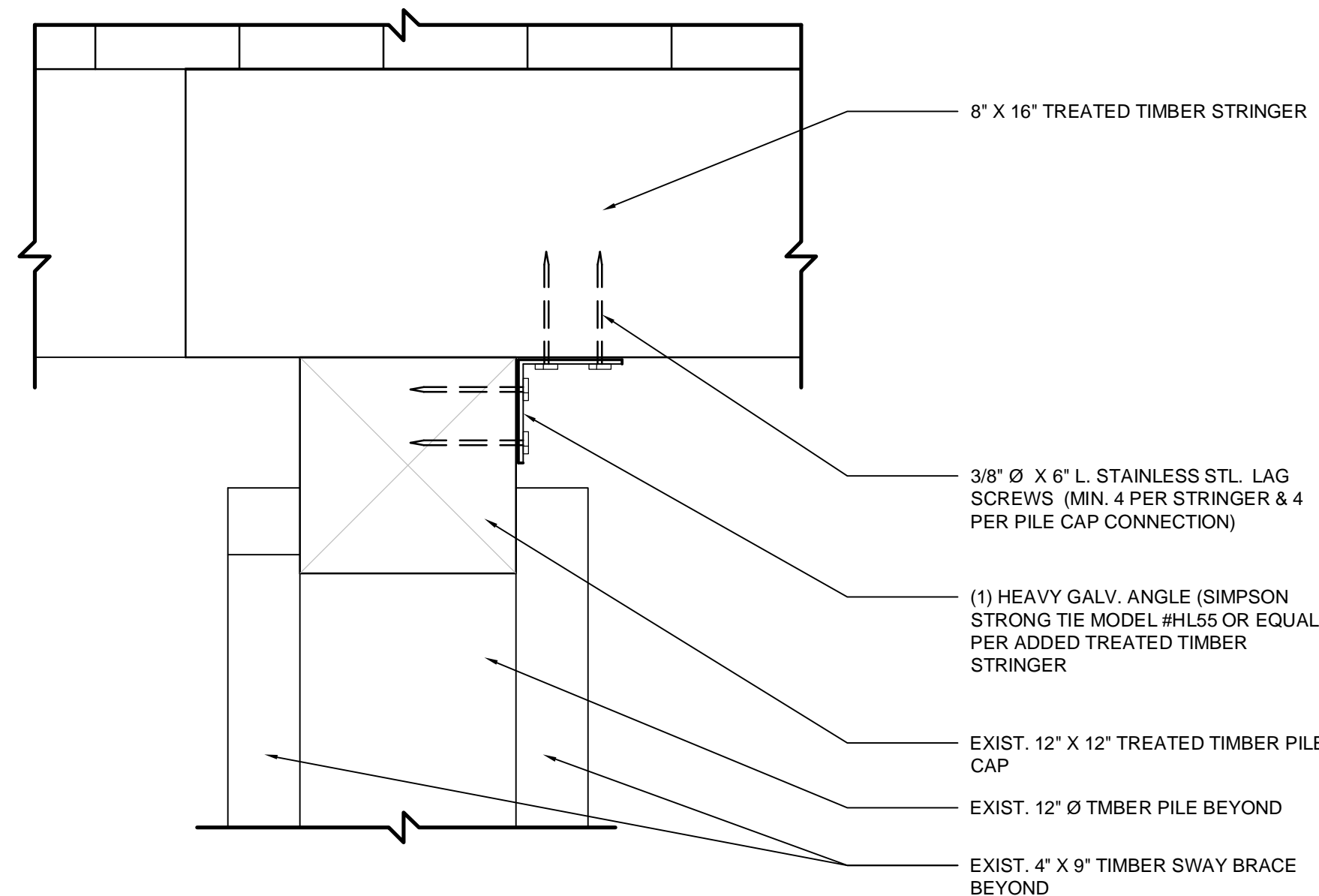
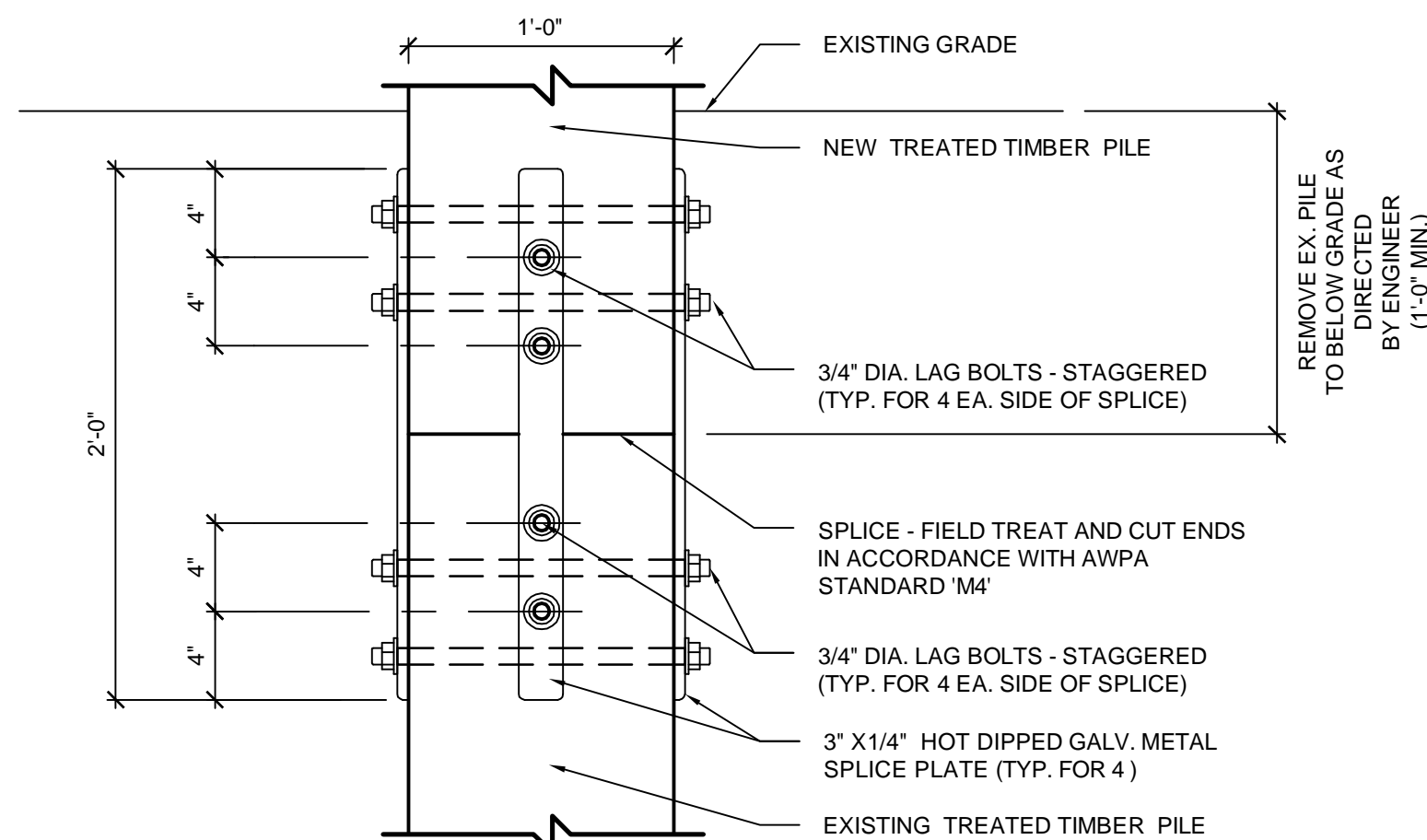


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NOTE:
PROPOSED CONNECTION DETAIL TO BE USED WHEN STRINGERS ARE REPLACED.
EXISTING CONNECTION TO BE MAINTAINED OTHERWISE.

TYPICAL SPLICE AT TIMBER PILES (WEST ABUTMENT)

SCALE: 3/8"=1'-0"

1

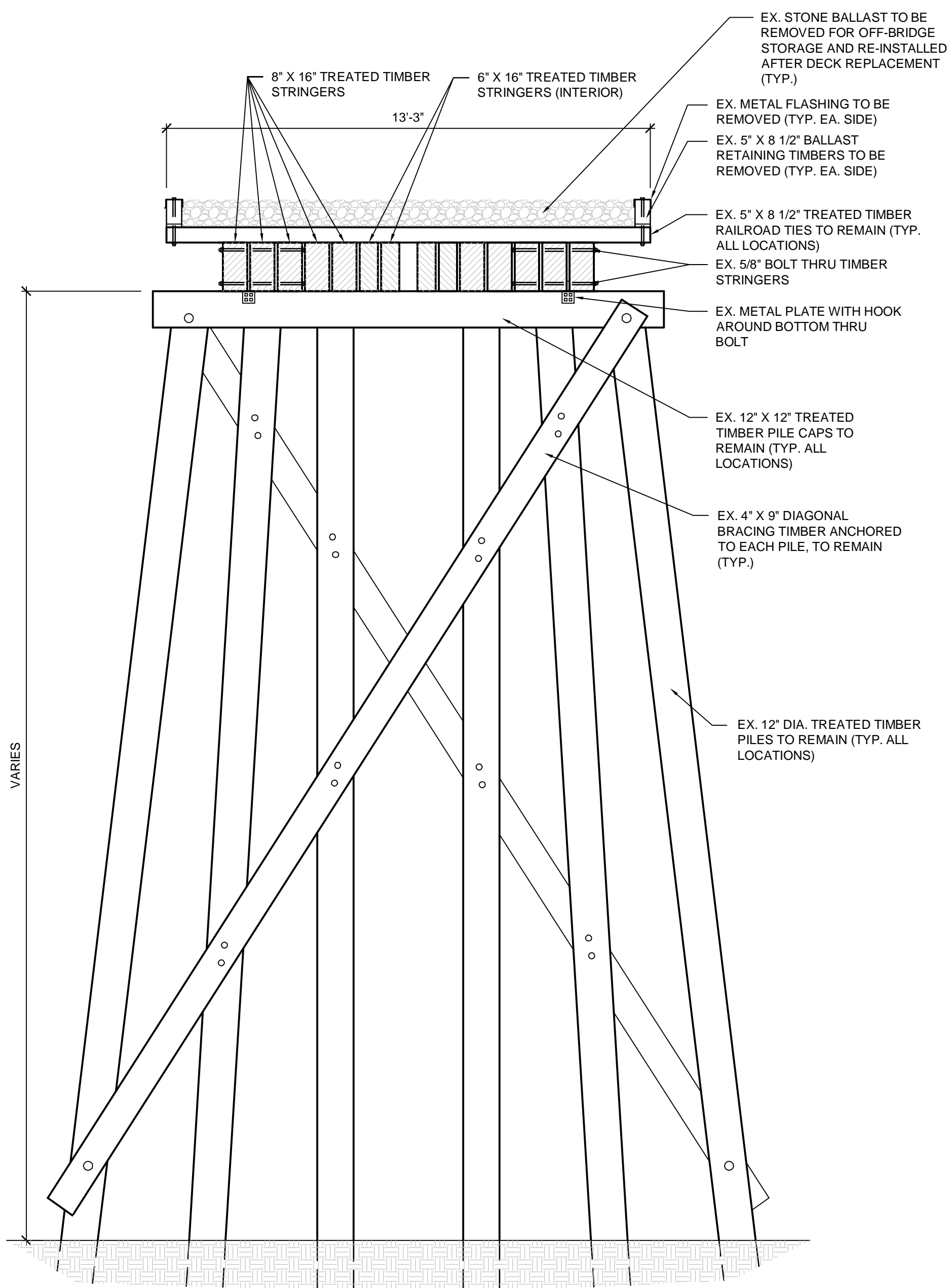
S501

PROPOSED STRINGER TO TIMBER PILE CAP CONECTION DETAIL

SCALE: 3/8"=1'-0"

2

S501

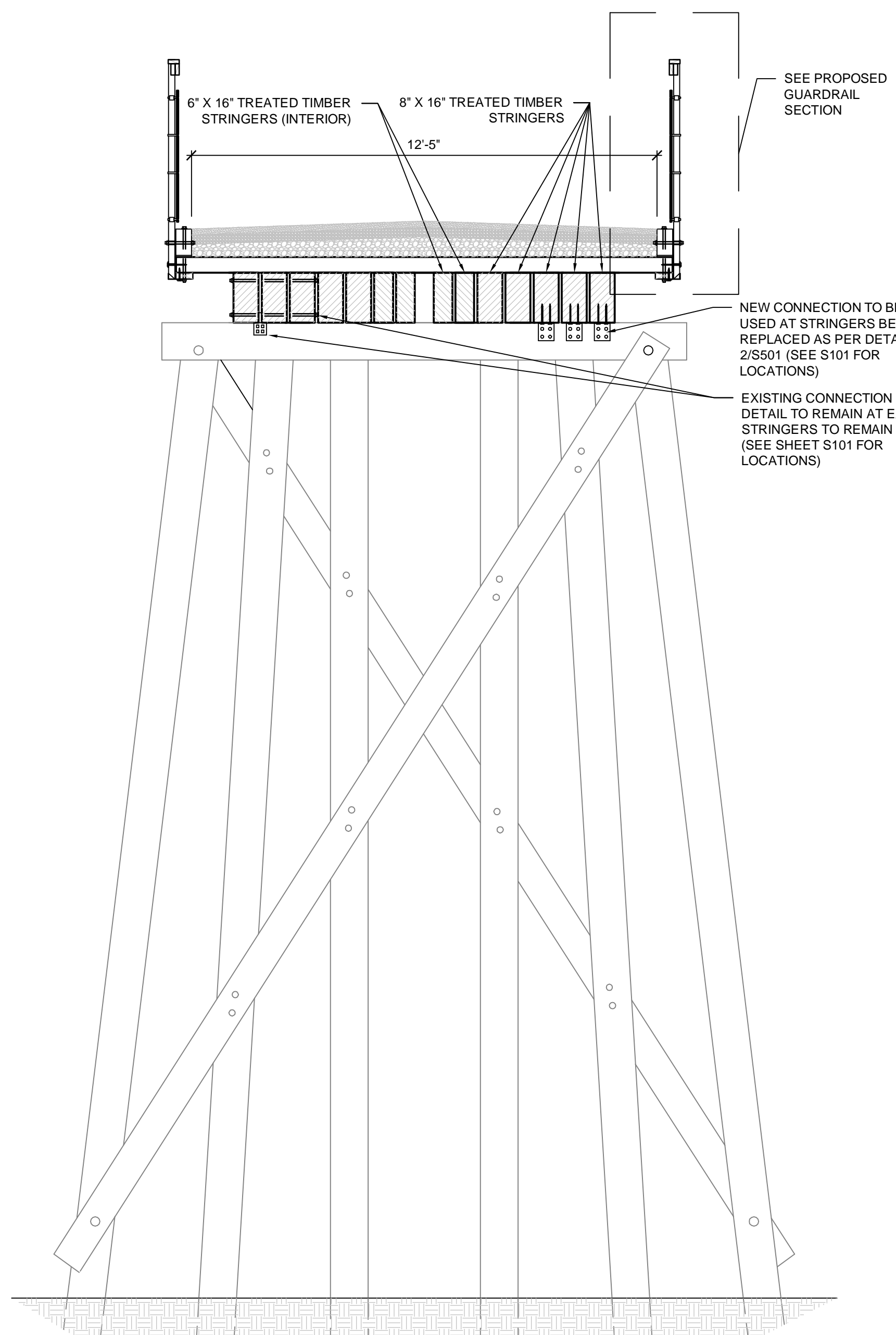


TYP. SECTION AT EX. BENT - EXISTING CONDITIONS

SCALE: 3/4"=1'-0"

3

S501

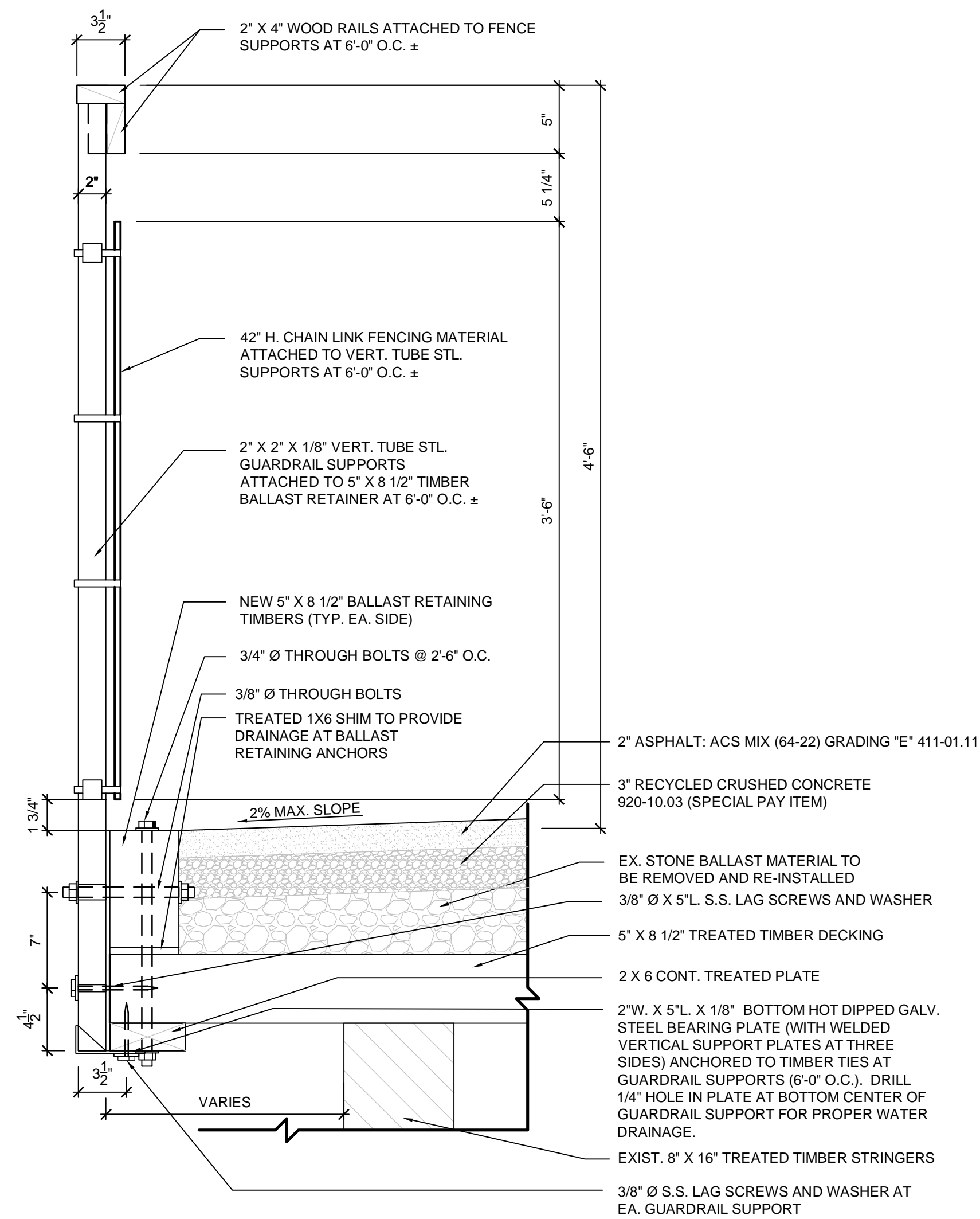


TYP. SECTION AT EX. BENT - PROPOSED CONDITIONS

SCALE: 3/8"=1'-0"

4

S501



NOTES:
1. REFER TO DETAIL 1 ON SD501 FOR PAVING SPECIFICATIONS.
2. REFER TO DETAIL 1 ON SD502 FOR ARCHITECTURAL BRIDGE RAIL SPECIFICATIONS.

PROPOSED GUARDRAIL SECTION

SCALE: 3/8"=1'-0"

5

S501

PROJECT PHASE

FINAL DESIGN

DATE OF ISSUE

APRIL 2, 2015

REVISIONS

SEAL



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CHECKED BY

TT/DC

SHEET NO.

S501

SHEET TITLE

BRIDGE DETAILS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

abcdefghijklmnopqrstuvwxyz

0 1 2 3 4 5 6 7 8 9 ? ! & .

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

abcdefghijklmnopqrstuvwxyz

0123456789?!&.

[illegible]

LEGEND :

STAMP :

LANDSCAPE ARCHITECT :
James Corner Field Operations
475 Tenth Ave, 10F New York, NY 10018

Pickering 6775 Lenox Center Court, Suite 300, Memphis, TN 38115

CLIENT :
Shelby Farms Park Conservancy
500 North Pine Lake Drive, Memphis, TN 38134

PROJECT NAME **SFP, PHASE 1**
GREENLINE SIGNAGE

DESCRIPTION	100% CONSTRUCTION DOCUMENTS
-------------	-----------------------------

DRAWN **DA** **CHECKED** **RK**

DATE	01.05.2011	SCALE	NA
------	------------	-------	----

DRAWING TITLE **SIGNAGE FONTS**

DRAWING NO. **G-1**

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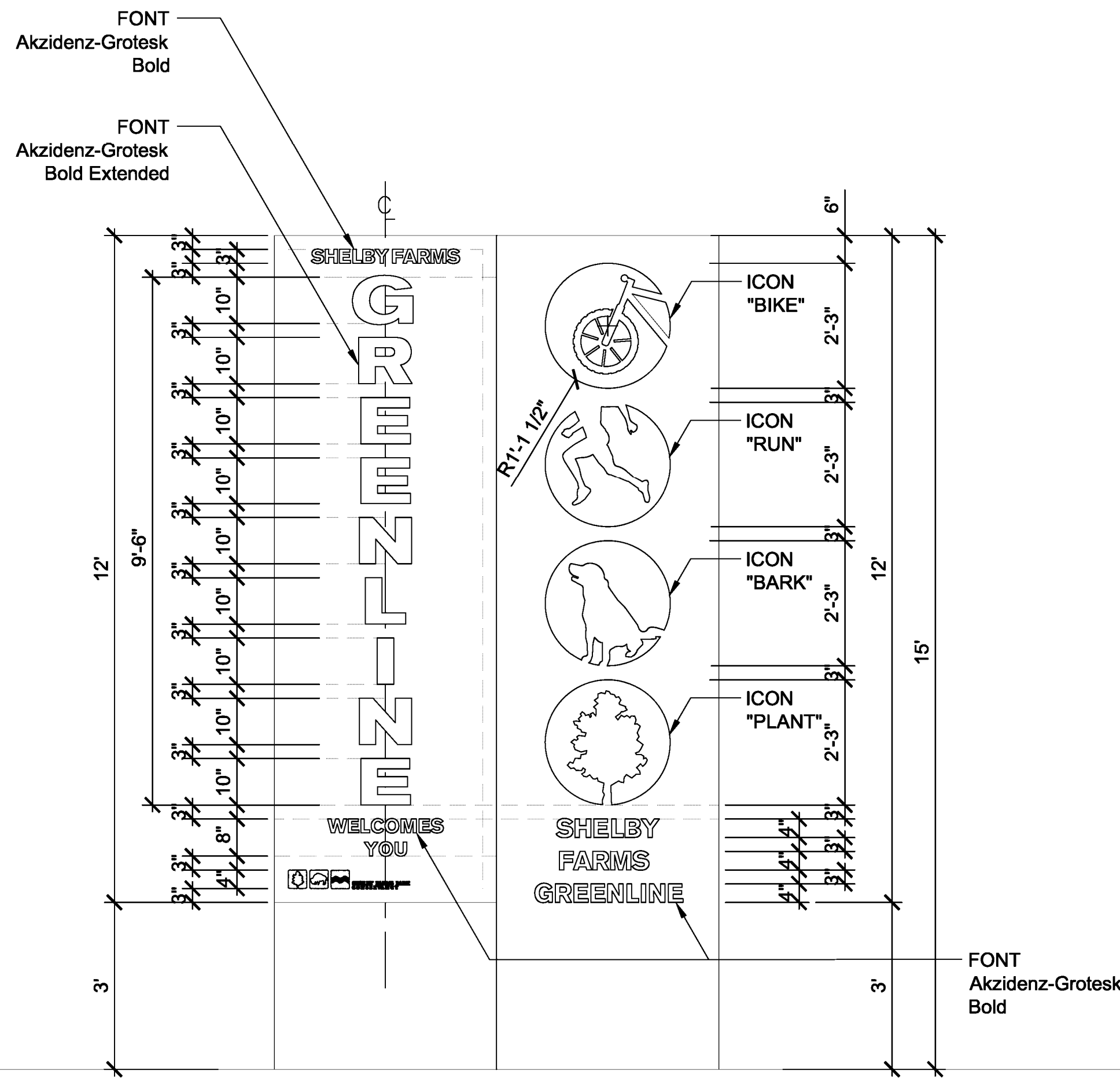
NOTES:

1. ALL BASE COLOR TREATMENT SHALL BE POWDER COATING. ALL GRAPHIC FIGURES SHALL BE PAINTED WITH GRIP-GARD ACRYLIC PAINT.
2. ALL COLOR NUMBERS SHALL BE COORDINATED WITH SIGN FABRICATOR.
3. ALL LETTERS OF ACTIVITY WORDS AND ICONS SHALL BE CENTERED ON BOARDS.
4. ALL WORDS OF PARK NAMES AND GATEWAY NAMES SHALL BE CENTERED ON BOARDS UNLESS OTHERWISE NOTED.
5. ALL DECRIPTIONS ON DIR/INFO SIGNS SHALL BE CENTERED ON BOARDS UNLESS OTHERWISE NOTED.
6. SEE L-5.1 FOR WIDTH OF ALUMINUM CLADDINGS.
7. OVERALL SIGN WIDTH CANNNOT EXCEED LENGTH OF PANEL ON ANY SIGNS.
8. FABRICATOR IS RESPONSIBLE FOR PROVIDING ENGINEER-STAMPED SHOP DRAWINGS FOR ALL SIGNS - PRIOR TO THEIR PRODUCTION - FOR DESIGNTEAM REVIEW AND APPROVAL.
9. FABRICATOR IS RESPONSIBLE FOR PROVIDING MATERIAL SAMPLES AND MOCK-UP - PRIOR TO THEIR FULL PRODUCTION - FOR ALL SIGNAGE.
- 10.LANDSCAPE ARCHITECT TO PROVIDE PRODUCTION ARTWORK FOR EVERY SIGN DURING FABRICATION.
- 11.FINAL TEXT TO BE PROVIDED BY OWNER DURING FABRICATION.
- 12.THE SIGN MATERIAL SHALL BE DESIGNED AND CONSTRUCTED BY THE SIGN SUPPLIER.

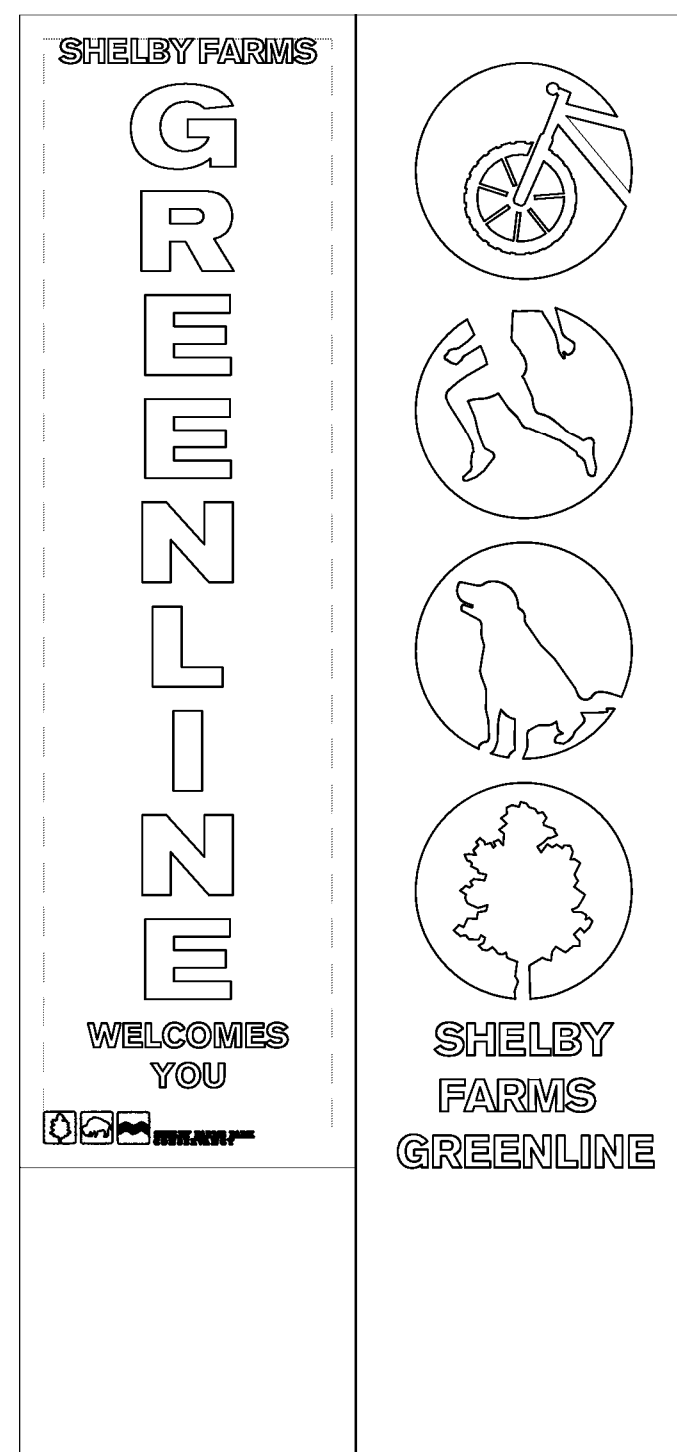
DESIGN AND CONSTRUCTION SHALL MEET THE FOLLOWING CRITERIA:

- A. DEFLECTION PERPENDICULAR TO THE FACE OF THE PANEL DUE TO WIND LOADING SHALL NOT EXCEED L/360 OR A LESSER AMOUNT AS REQUIRED TO ELIMINATE OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
- B. DEFLECTION OR MOVEMENT PERPENDICULAR TO THE FACE THE PANEL DUE TO THERMAL VARIATION SHALL NOT EXHIBIT OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
- C. ATTACHMENT OF THE PANELS TO THE SUBFRAMING SHALL ACCOMMODATE MOVEMENT DUE TO THERMAL VARIATION AS REQUIRED TO ELIMINATE OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
- D. DESIGN OF SIGN MATERIAL AND VERIFICATION OF SUBFRAMING SHALL BE UNDER THE SUPERVISION OF A LICENSED ENGINEER IN THE STATE OF TENNESSEE.

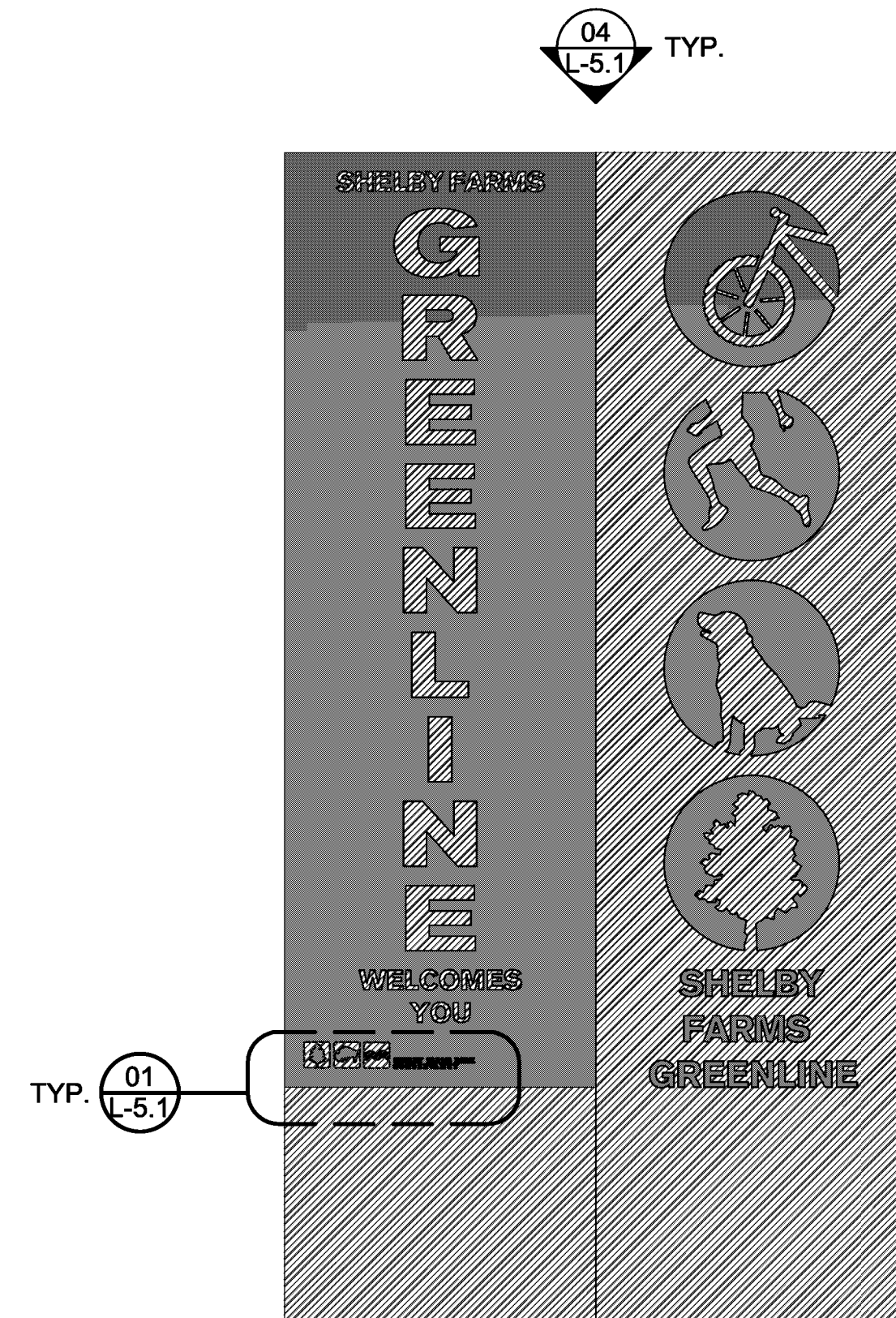
13.ALL GREENLINE SIGNAGE LOCATION TO BE DETERMINED BY OWNER AND LANDSCAPE ARCHITECT IN FIELD.



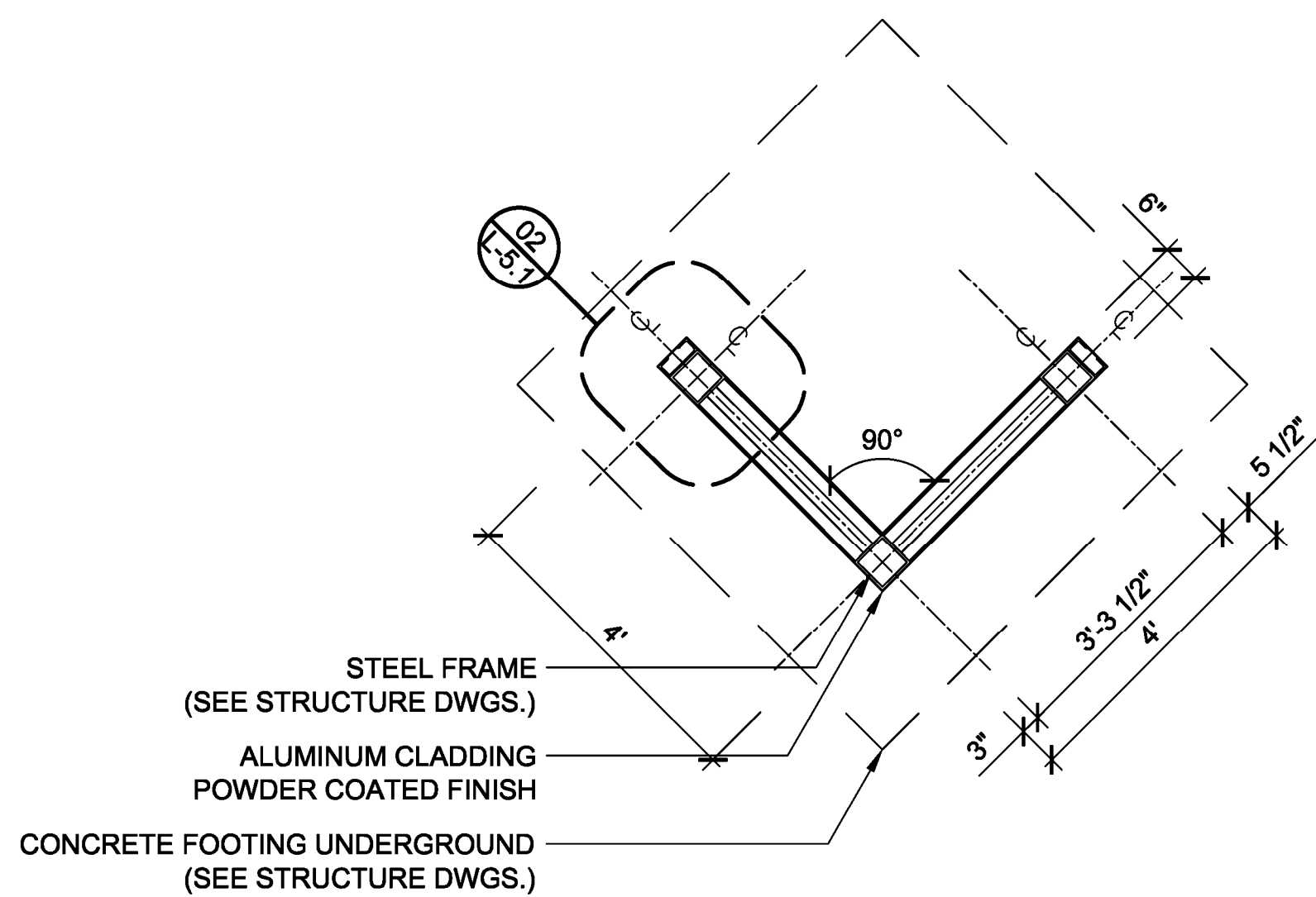
01 GATEWAY GREENLINE SIGN FRONT ELEVATION (X9)
SCALE: 1" = 2'-0"



01 GATEWAY GREENLINE SIGN BACK ELEVATION (X9)
SCALE: 1" = 2'-0"



03 GATEWAY GREENLINE SIGN ELEVATION - COLOR (X9)
SCALE: 1" = 2'-0"

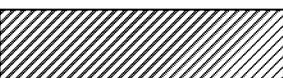
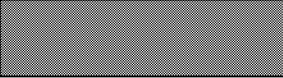


02 GATEWAY GREENLINE SIGN PLAN
SCALE: 1" = 2'-0"

REVISION :

NO.	DATE	DESCRIPTION	BY

LEGEND :

-  GREY POWDER COAT
-  LIME GREEN POWDER COAT

STAMP :

LANDSCAPE ARCHITECT :
James Corner Field Operations
475 Tenth Ave, 10F New York, NY 10018

CONSULTANT TEAM :
Pickering 6775 Lenox Center Court, Suite 300, Memphis, TN 38115

CLIENT :
Shelby Farms Park Conservancy
500 North Pine Lake Drive, Memphis, TN 38134

PROJECT NAME
**SFP, PHASE 1
GREENLINE SIGNAGE**

DESCRIPTION
100% CONSTRUCTION DOCUMENTS

DRAWN
DA

DATE
01.05.2011

DRAWING TITLE
**GREENLINE SIGN
PLANS AND ELEVATIONS**

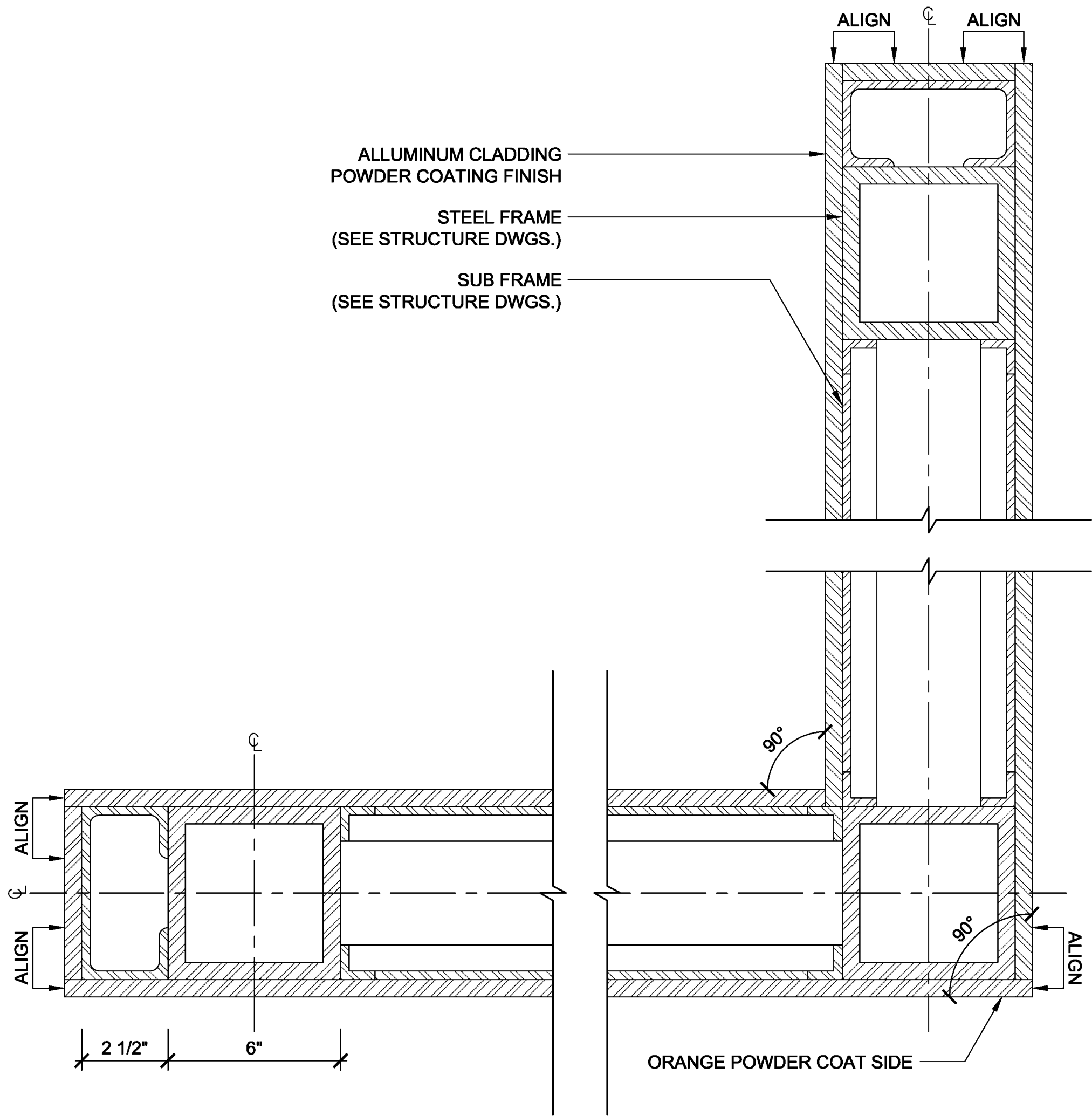
DRAWING NO.

L-1.1

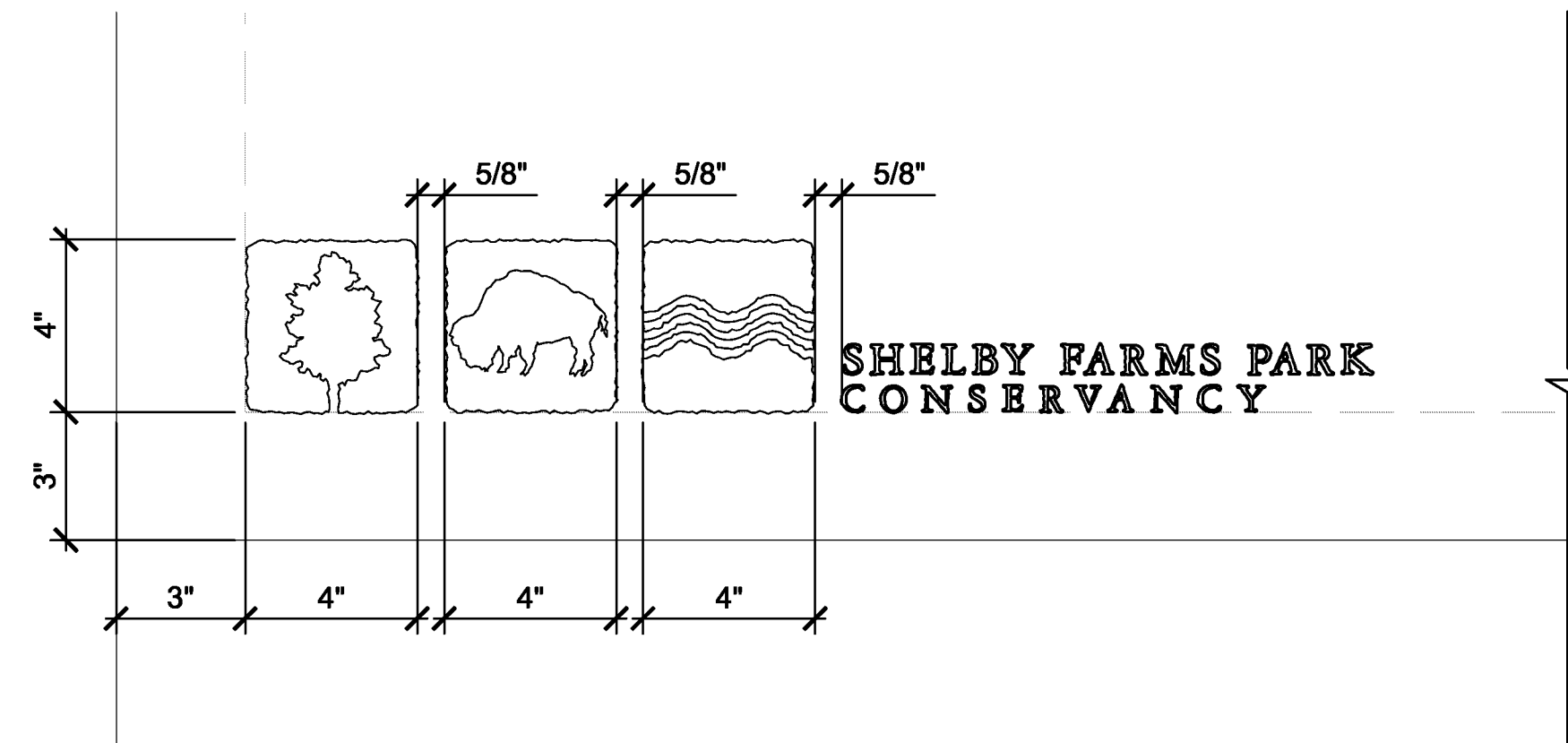
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NOTES:

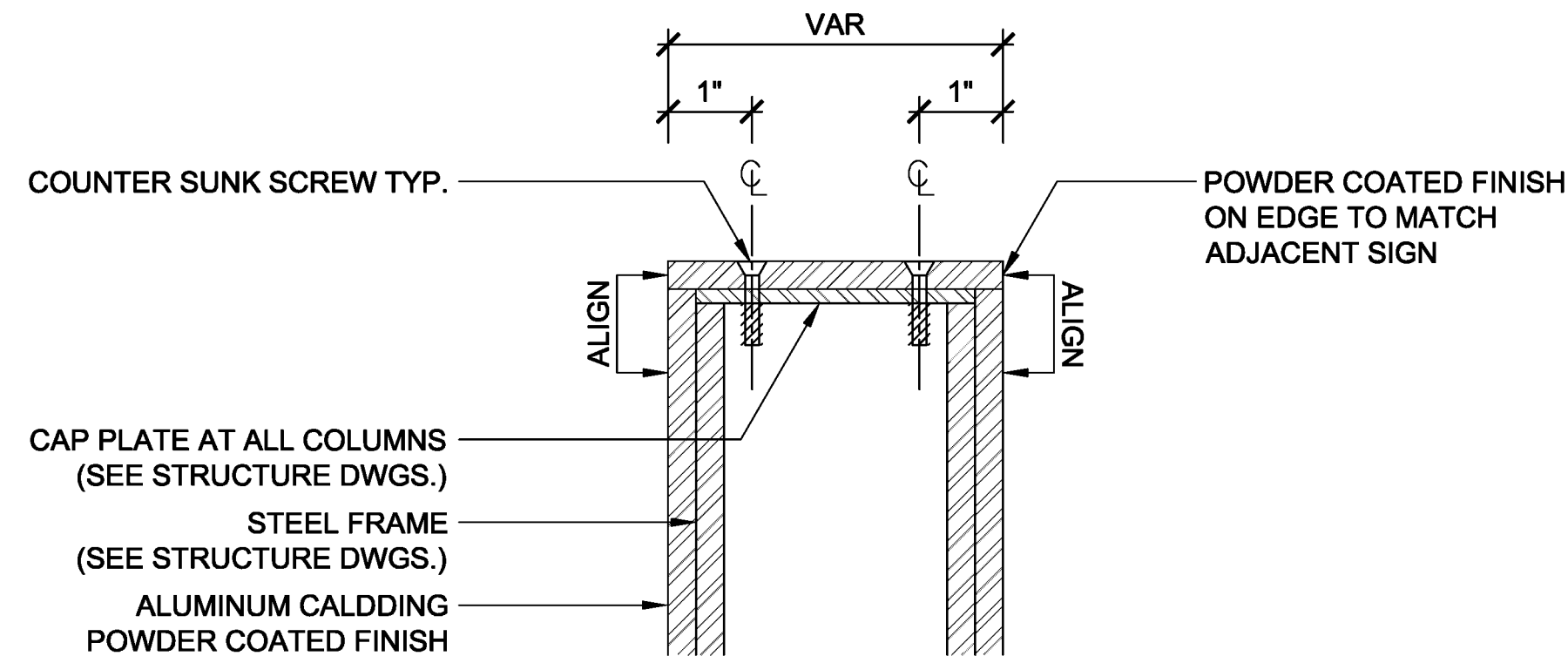
1. SHELBY FARMS PARK CONSERVANCY SHALL PROVIDE FONT FOR LOGO.
2. WIDTH OF PANELS A, B, C AND D TO BE VERIFIED WITH FINAL ALUMINUM PANEL THICKNESS. PANELS TO BE ALIGNED WITH EACH OTHER AS PER DETAIL 02 / L-5.1
3. THE SIGN MATERIAL SHALL BE DESIGNED AND CONSTRUCTED BY THE SIGN SUPPLIER. DESIGN AND CONSTRUCTION SHALL MEET THE FOLLOWING CRITERIA:
 - A. DEFLECTION PERPENDICULAR TO THE FACE OF THE PANEL DUE TO WIND LOADING SHALL NOT EXCEED L/360 OR A LESSER AMOUNT AS REQUIRED TO ELIMINATE OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
 - B. DEFLECTION OR MOVEMENT PERPENDICULAR TO THE FACE THE PANEL DUE TO THERMAL VARIATION SHALL NOT EXHIBIT OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
 - C. ATTACHMENT OF THE PANELS TO THE SUBFRAMING SHALL ACCOMMODATE MOVEMENT DUE TO THERMAL VARIATION AS REQUIRED TO ELIMINATE OIL CANNING VISIBLE FROM MORE THAN 3 FEET UNDER ANY LIGHTING CONDITIONS.
 - D. DESIGN OF SIGN MATERIAL AND VERIFICATION OF SUBFRAMING SHALL BE UNDER THE SUPERVISION OF A LICENSED ENGINEER IN THE STATE OF TENNESSEE.



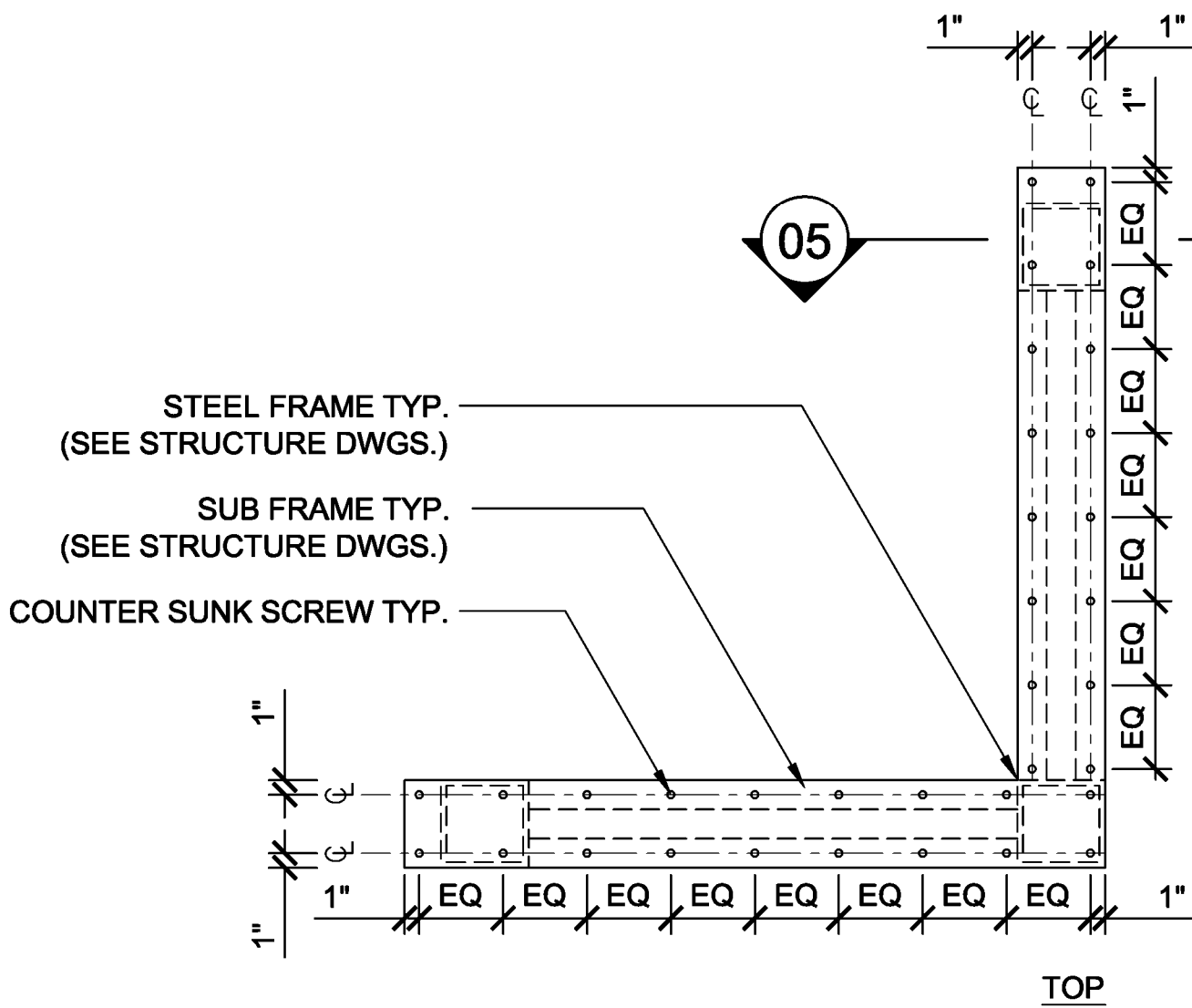
02 TYPICAL END JOINT AND CORNER JOINT DETAILS
SCALE: 4" = 1'-0"



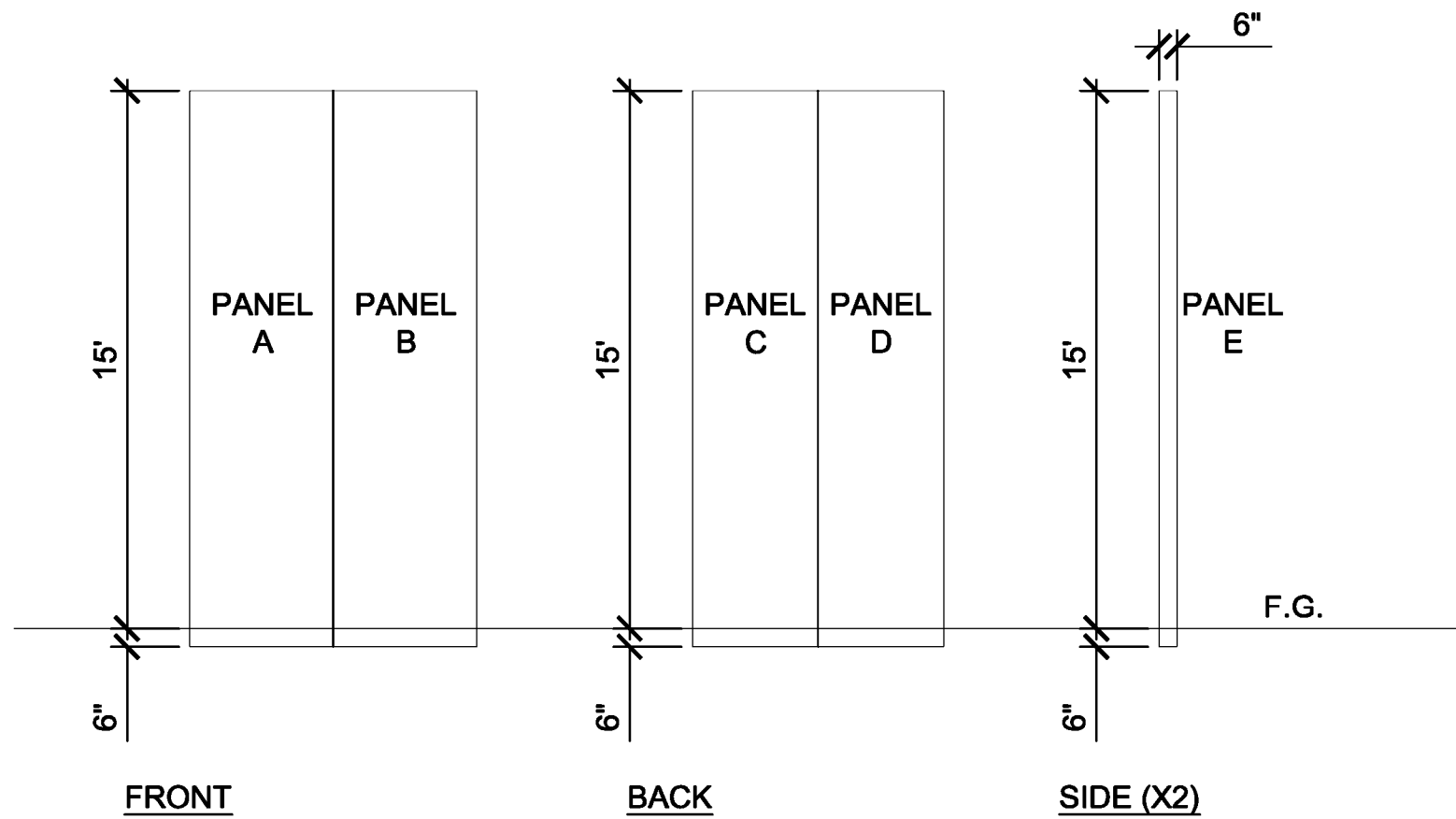
01 SHELBY FARMS PARK CONSERVANCY LOGO DETAIL TYP.
SCALE: 3" = 1'-0"



05 ALUMINUM CLADDING TOP PANEL DETAIL SECTION
SCALE: 4" = 1'-0"



04 ALUMINUM CLADDING TOP PANEL DETAIL
SCALE: 1" = 1'-0"



03 ALUMINUM CLADDING FRONT, BACK AND SIDE PANEL DETAIL
SCALE: 1" = 5'-0"

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LEGEND :

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LANDSCAPE ARCHITECT :
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475 Tenth Ave, 10F New York, NY 10018

CONSULTANT TEAM :
Pickering 6775 Lenox Center Court, Suite 300, Memphis, TN 38115

CLIENT :
Shelby Farms Park Conservancy
500 North Pine Lake Drive, Memphis, TN 38134

PROJECT NAME
**SFP, PHASE 1
GREENLINE SIGNAGE**

DESCRIPTION
100% CONSTRUCTION DOCUMENTS

DRAWN
DA

CHECKED
RK

DATE
01.05.2011

SCALE
1"=2'-0"

DRAWING TITLE
**GREENLINE SIGN
DETAILS 1**

DRAWING NO.
L-5.1

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DATE
01.05.2011

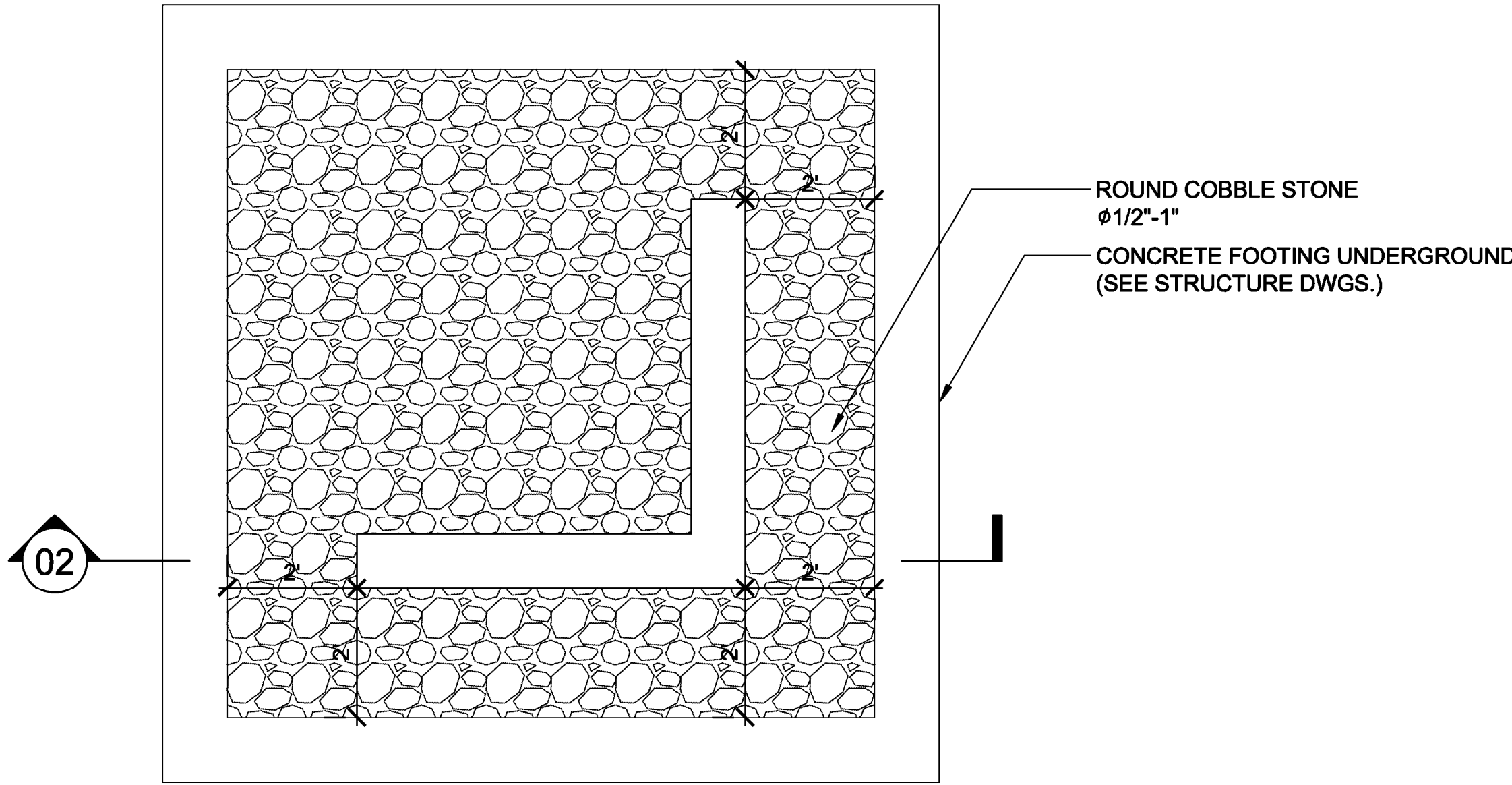
SCALE
1"=2'-0"

DRAWING TITLE
**GREENLINE SIGN
DETAILS 2**

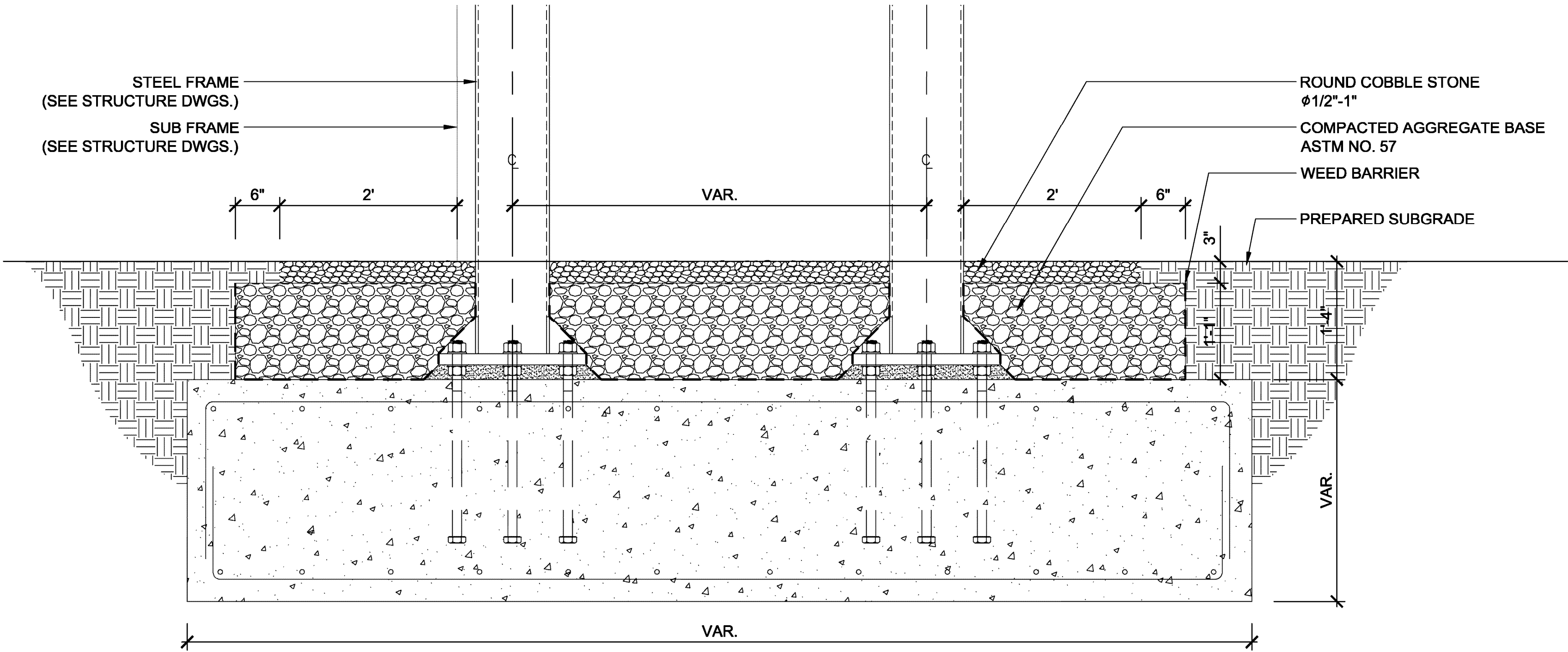
DRAWING NO.

L-5.2

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01 COBBLE STONE BASE PLAN DETAIL
SCALE: 1" = 2'-0"



02 COBBLE STONE BASE SECTION DETAIL
SCALE: 1" = 1'-0"

