

PROJECT LOCATION

LAT: 34°52'21.26"N
 LON: 92°13'44.62"

VICINITY MAP

COUNTY JUDGE

F.G. "BUDDY" VILLINES

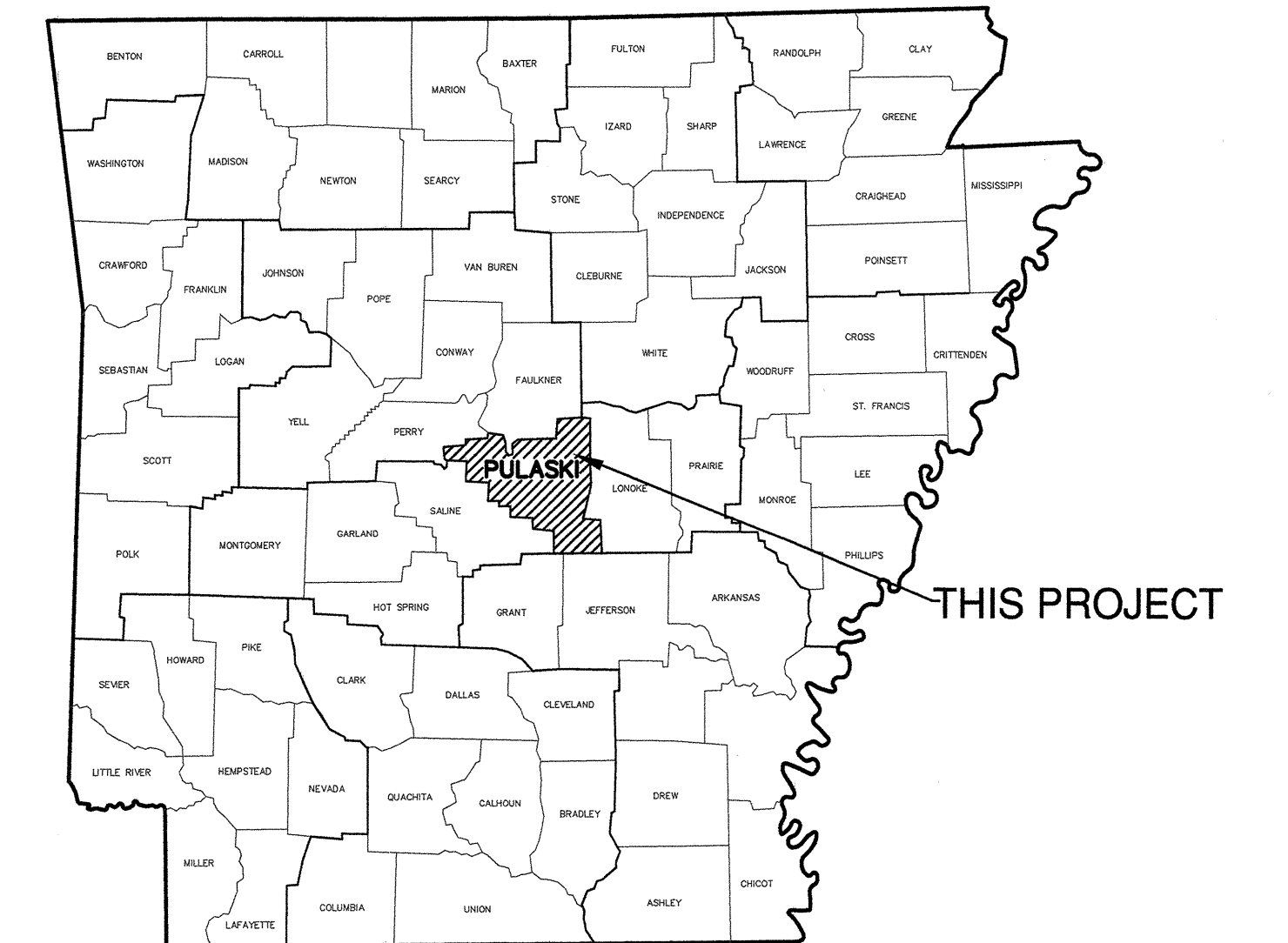
PUBLIC WORKS DIRECTOR

SHERMAN SMITH, P.E., P.L.S.

QUORUM COURT

DOUG REED
 DAWNE BENAFIELD VANDIVER
 JIM SORVILLO
 JULIE BLACKWOOD
 WILANDRA DEAN
 DONNA MASSEY
 TERESA CONEY
 CURTIS KEITH
 JUDY GREEN
 REV. ROBERT GREEN
 BOB JOHNSON
 JEFF ROLLINS
 PHIL STOWERS
 PAUL ELLIOTT
 SHANE STACKS

CONSTRUCTION PLANS FOR MILES CREEK BRIDGE REPLACEMENT KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS MARCH 2011



STATE MAP

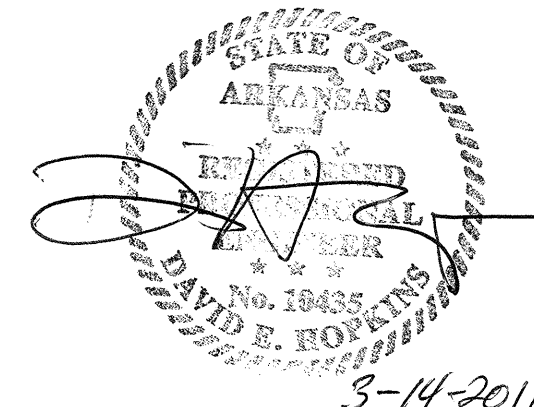
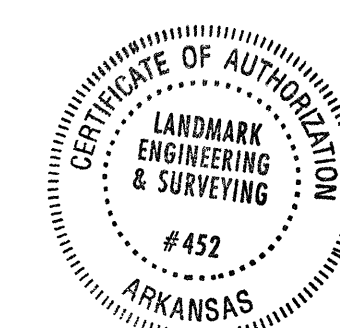
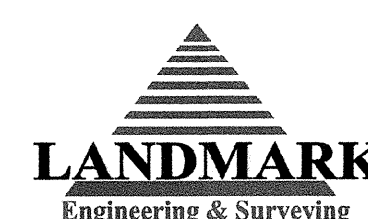
ROAD & BRIDGE IMPROVEMENTS

| | | |
|---------------|-----|----------|
| BEGIN ROADWAY | STA | 2+77.00 |
| BEGIN BRIDGE | STA | 7+55.19 |
| END BRIDGE | STA | 8+35.19 |
| END ROADWAY | STA | 16+30.00 |

| | |
|-------------------------|-----------|
| GROSS LENGTH OF PROJECT | 1353 L.F. |
| GROSS LENGTH OF ROADWAY | 1273 L.F. |
| GROSS LENGTH OF BRIDGE | 80 L.F. |

LANDMARK ENGINEERING & SURVEYING

300 RODNEY PARHAM RD, STE. 7
 LITTLE ROCK, ARKANSAS 72205
 PH: (501) 224-1000
 FX: (501) 227-7200



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| | GUARD RAIL DETAILS | (AHTD DWG GRT–1) |
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| | STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | (AHTD DWG TC–3) |
| 26 | TEMPORARY EROSION CONTROL DEVICES | (AHTD DWG TEC–1) |

SPECIAL PROVISIONS

CONSTRUCTION SHALL BE PHASED TO FACILITATE LOCAL ACCESS ON EXISTING ROADWAY WITH AS LITTLE INTERRUPTION AS POSSIBLE. CONSTRUCTION SHALL BE PHASED AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE ENGINEER:

1. INSTALL CONSTRUCTION SIGNAGE & EROSION CONTROL DEVICES. SUBMITTAL DRAWINGS ON BRIDGE & OTHER ITEMS TO ENGINEER FOR APPROVAL. SUBMIT COPY OF STORMWATER PERMIT.
2. SITE CLEARING, BRIDGE FOUNDATIONS AND EMBANKMENT, ROADWAY BASE, AND SURFACE COURSES ON NEW ROADWAY ALIGNMENT. CONSTRUCT BRIDGE IMPROVEMENTS ON NEW ALIGNMENT
3. NO SOONER THAN 3 WORK DAYS PRIOR TO TIE-IN, INSTALL ADVANCE WARNINGS & NOTIFY COUNTY.
4. PERFORM TIE-INS TO EXISTING ROADWAY WITH FLAGGERS AT APPROACHES. BARRICADE OLD ROADWAY. APPLY STRIPING & SIGNAGE
5. REMOVE OLD BRIDGE, OBLITERATE OLD PAVEMENT & CONSTRUCT DRIVEWAY TIE-INS. DRESS SIDE SLOPES & APPLY FINAL SEED & MUCLH
6. REMOVE CONSTRUCTION SIGNAGE. RESOLVE ANY PUNCH LIST ITEMS.

GENERAL NOTES

ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.

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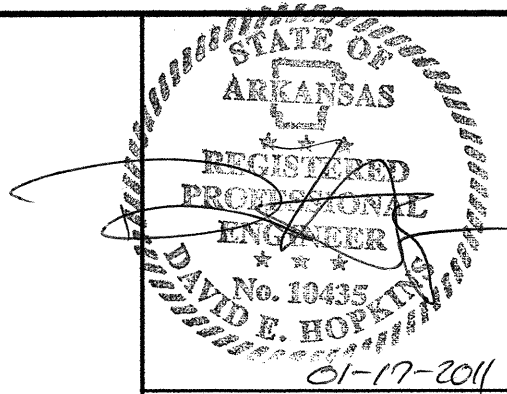
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LEVEL DATUM ESTABLISHED BY T.B.M. ON JOB. (USGS LEVEL DATUM, 1927)

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2. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT, EDITION OF 2003.



MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
INDEX & GENERAL NOTES

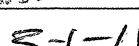
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|-------------|-----|-----------|-----|------------|-----|-------------|-----|------|-------|
| DESIGNED BY | DEH | DRAWN BY | ARS | CHECKED BY | DEH | REVIEWED BY | DEH | DATE | SCALE |
| | | | | | | | | | |
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| | | | | | | | | | |



DRAWING NO.

2

SHEET 2 OF

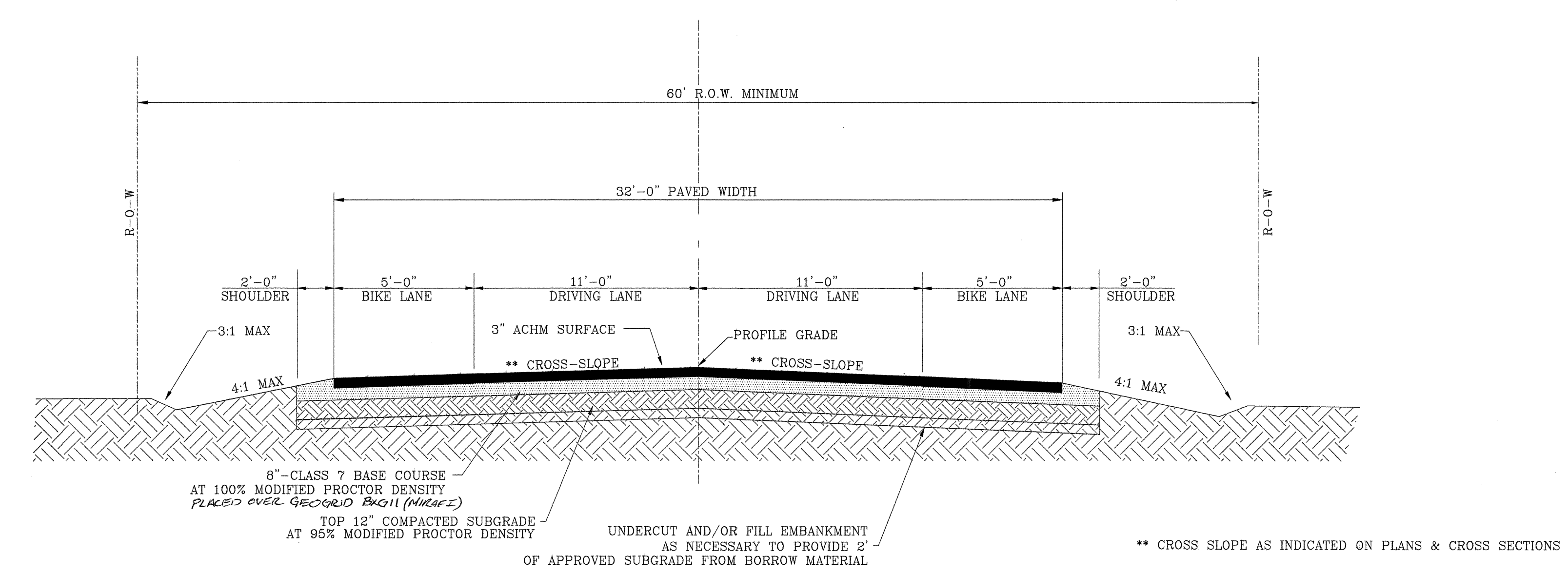


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KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

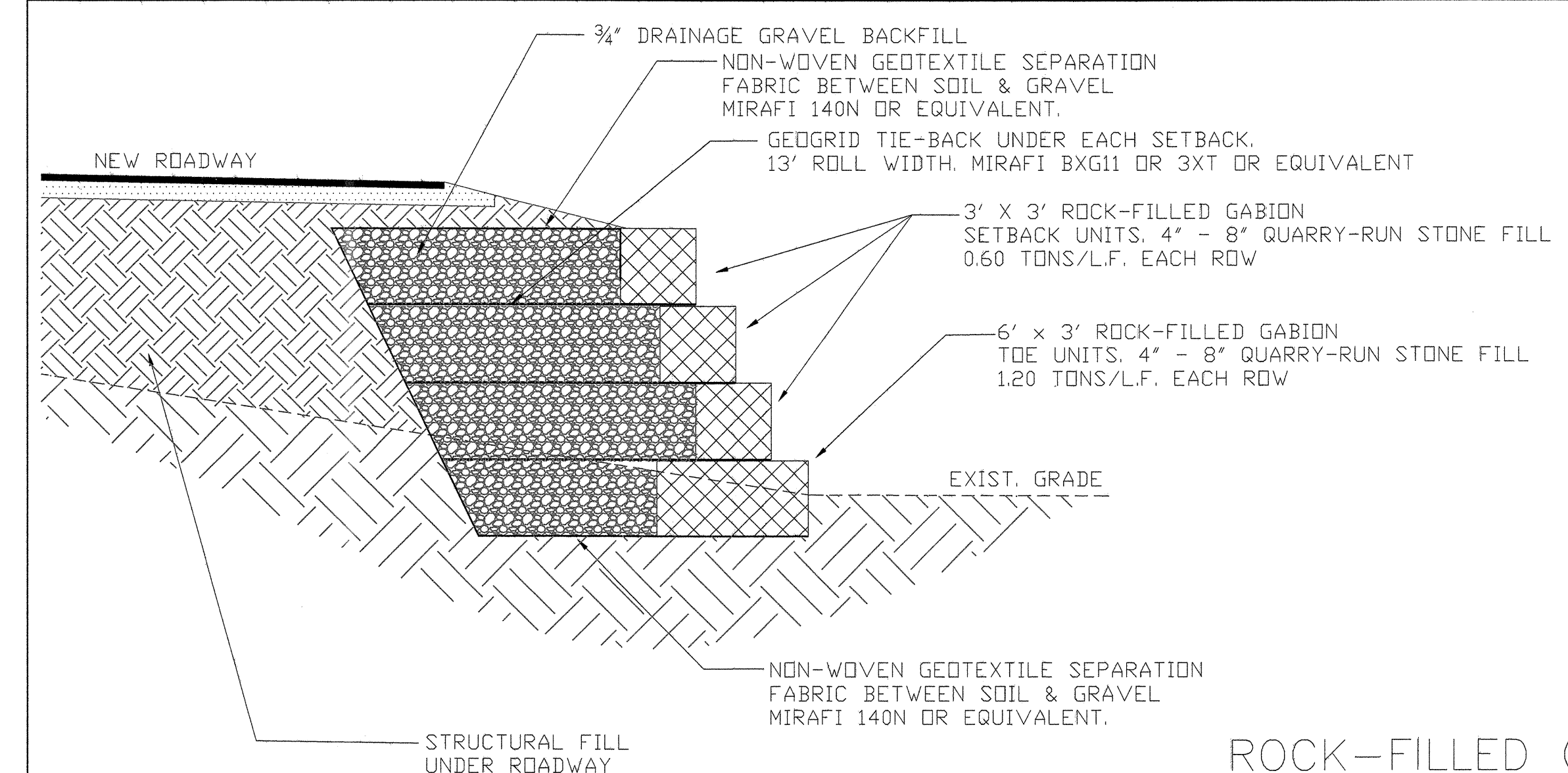
DETAILS

GENERAL ROADWAY NOTES

1. IN AREAS TO RECEIVE BITUMINOUS PAVING, DRIVEWAYS, AND GRAVEL SHOULDER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (AASHTO T-180)
2. REFER TO GEOTECHNICAL REPORT IN REGARD TO QUALITIES OF EXISTING SOILS. SUBGRADE UNDER ROADWAY SHALL BE CONSTRUCTED FROM APPROVED IMPORTED FILL PROVIDING A MINIMUM 2" THICKNESS OF IMPROVED MATERIAL. EXISTING SOILS SHALL BE UNDERCUT AS NECESSARY TO PROVIDE FOR IMPROVED SUBGRADE. UNDERCUT MATERIALS SHALL BE USED TO SHAPE SIDESLOPES OR REMOVED FROM THE SITE. NO MATERIAL SHALL BE PLACED IN WATERWAYS EXCEPT AS INDICATED ON THE DRAWINGS.
3. CRUSHED STONE - DENSITY OF COMPACTED MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY 100% MAXIMUM (AASHTO T-191).
4. CENTERLINE PROFILE IS FINISH GRADE. MAINTAIN 2% CROWN SLOPE EXCEPT WHERE NECESSARY TO TRANSITION TO EXISTING PAVEMENT.
5. PAVEMENT TIE-INS REQUIRE BUTT JOINTS TO BE SAW CUT WHERE NEW PAVEMENT JOINS OLD.
6. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO PROCTOR TESTING AND APPROVED FILL PLACEMENT OF BASE COURSE. BASE COURSE SHALL BE TESTED AND APPROVED PRIOR TO PLACEMENT OF SURFACE COURSE.

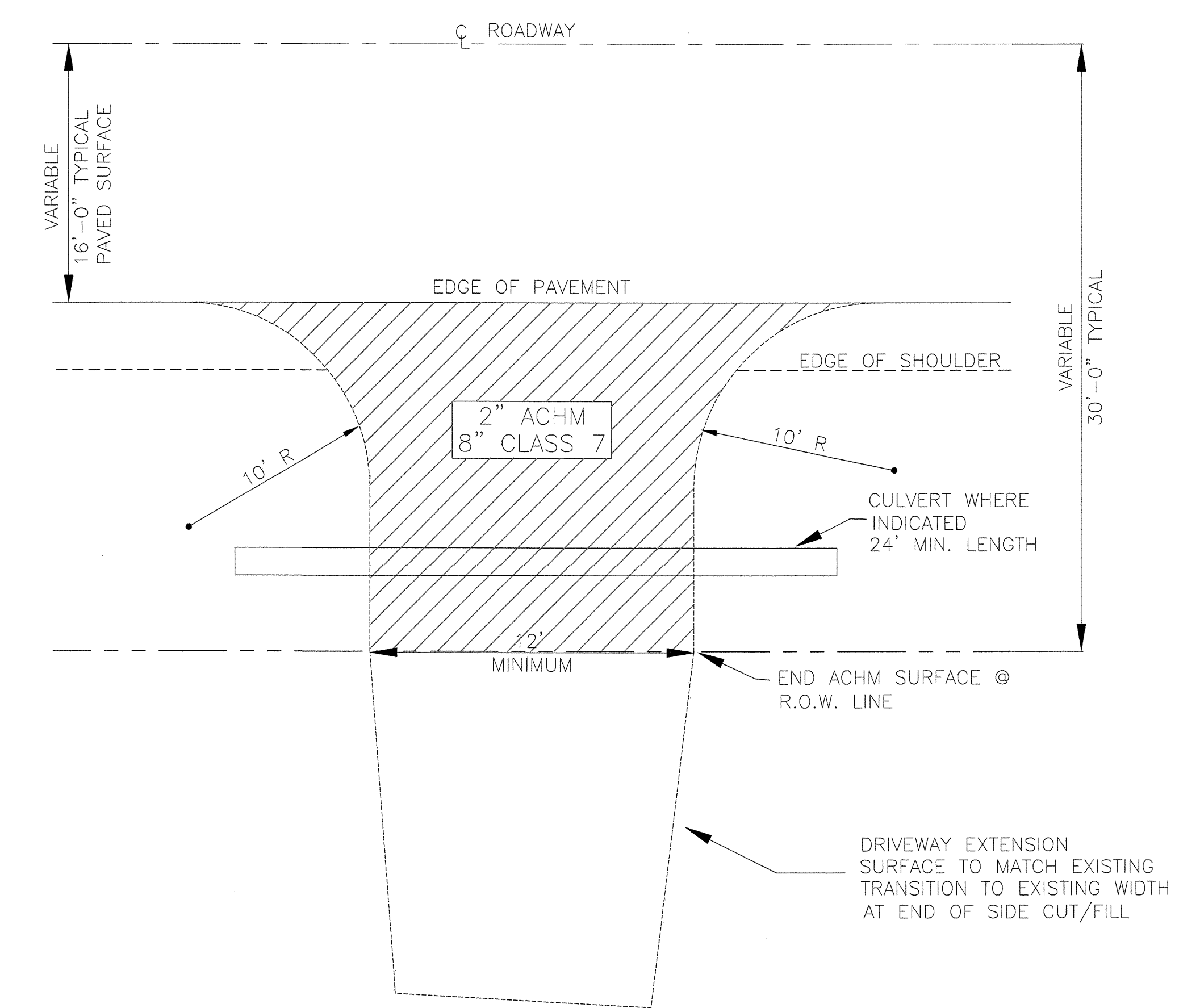


PROPOSED KELLOGG ACRES ROAD IMPROVEMENTS
NOT TO SCALE



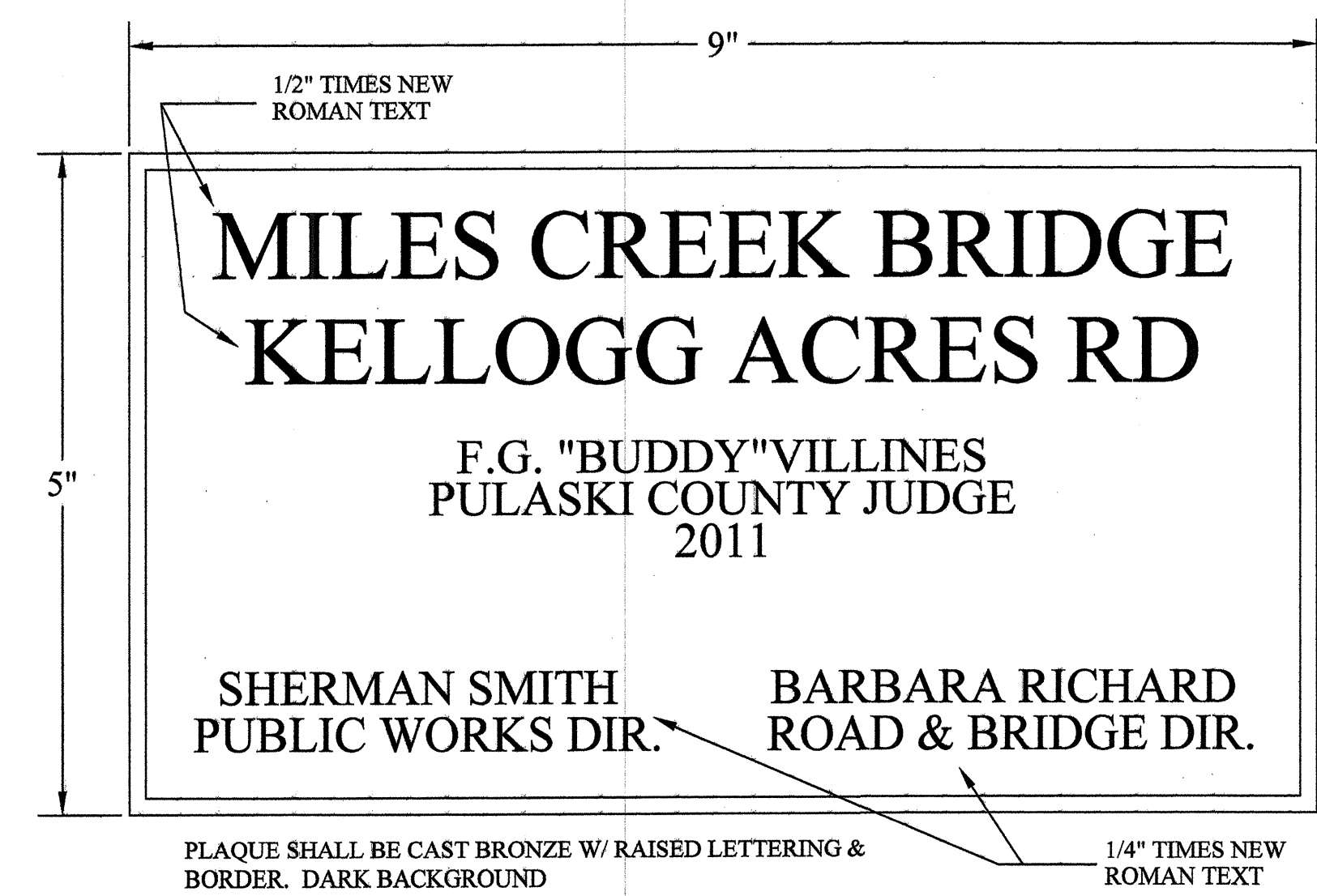
ROCK-FILLED GABIONS

- GENERAL GABION NOTES
1. GABION TOE WALL UNITS SHALL BE EMBEDDED A MINIMUM 2' INTO EXISTING SOILS.
 2. GABION UNITS SHALL BE TERRA-AQUA PVC-COATED DOUBLE-TWISTED OR EQUIVALENT. TERRA AQUA GABIONS, 1415 N. 32ND ST., FORT SMITH, AR 72904.
 3. GABION IN-FILL SHALL BE 4" - 8" DURABLE QUARRY-RUN STONE OR B-STONE.
 4. DRAINAGE GRAVEL BACKFILL SHALL BE ¾" NOMINAL GRAVEL, CRUSHED STONE OR CONCRETE ROCK.
 5. WALL SETBACK SHALL BE 1.5' PER 3' RISE IN WALL HEIGHT.
 6. GEGRID TIE-BACK SHALL HAVE AN EMBEDMENT LENGTH EQUAL TO WALL HEIGHT.
 7. CONTRACTOR SHALL COMPLETE TRAINING INFORMATION PROVIDED BY GABION MANUFACTURER PRIOR TO INSTALLATION. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



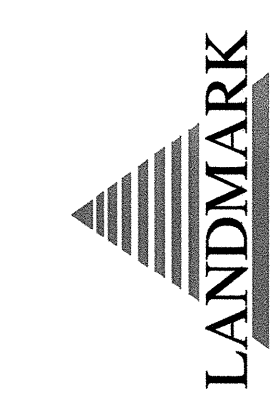
DETAIL OF PRIVATE ENTRANCES

ENTRANCE DRIVE AREA = 211 S.F.
ADDITIONAL BASE COURSE = 10 TONS
ADDITIONAL ACHM SURFACE = 2.6 TONS



BRIDGE PLAQUE DETAIL
NO SCALE

| | | |
|-------------|----------|--------|
| PROJECT NO. | PROJ_NO. | DATE |
| DESIGNED BY | DEH | REV011 |
| DRAWN BY | ARS | REV012 |
| CHECKED BY | DEH | REV013 |
| REVIEWED BY | DEH | |
| DATE | DATE | |
| SCALE | SCALE | |

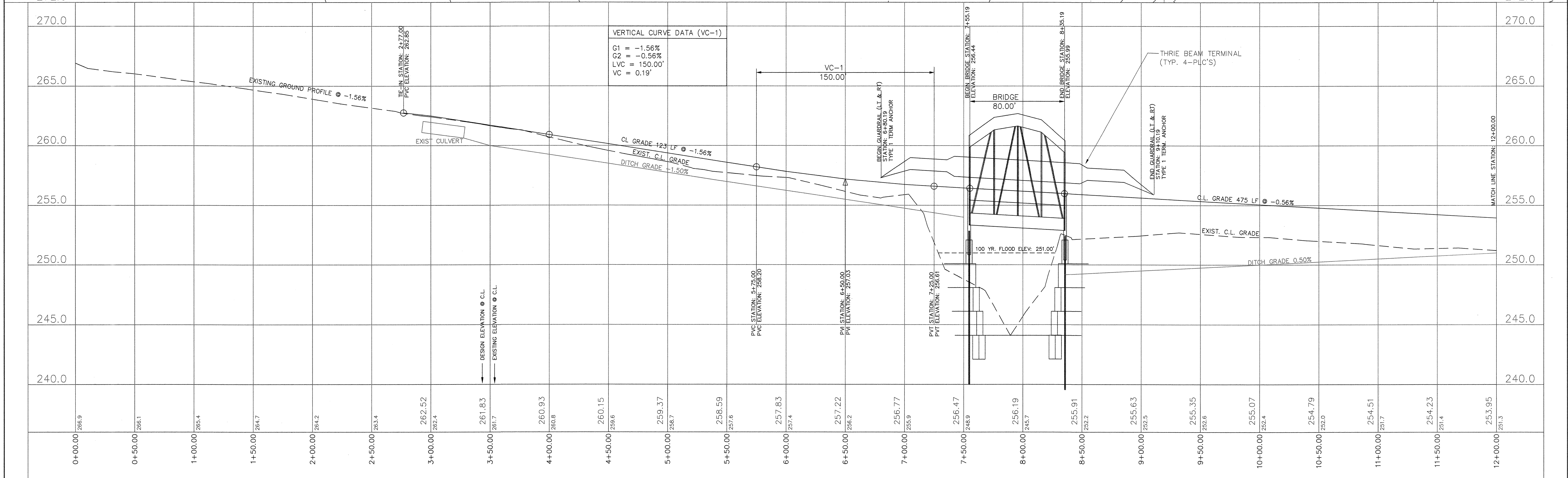
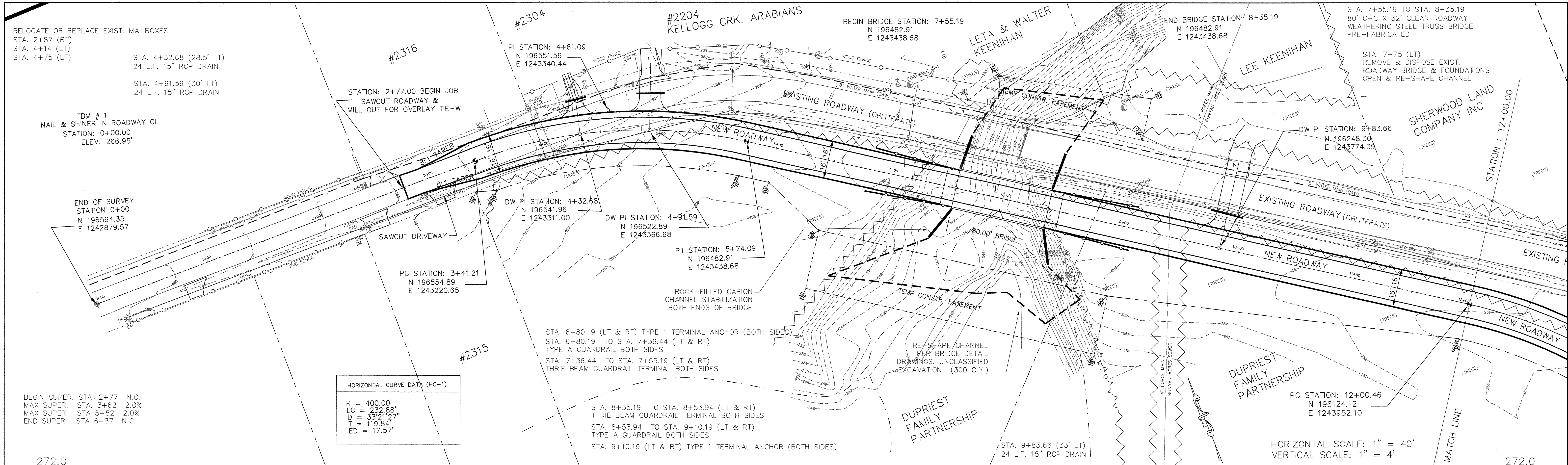


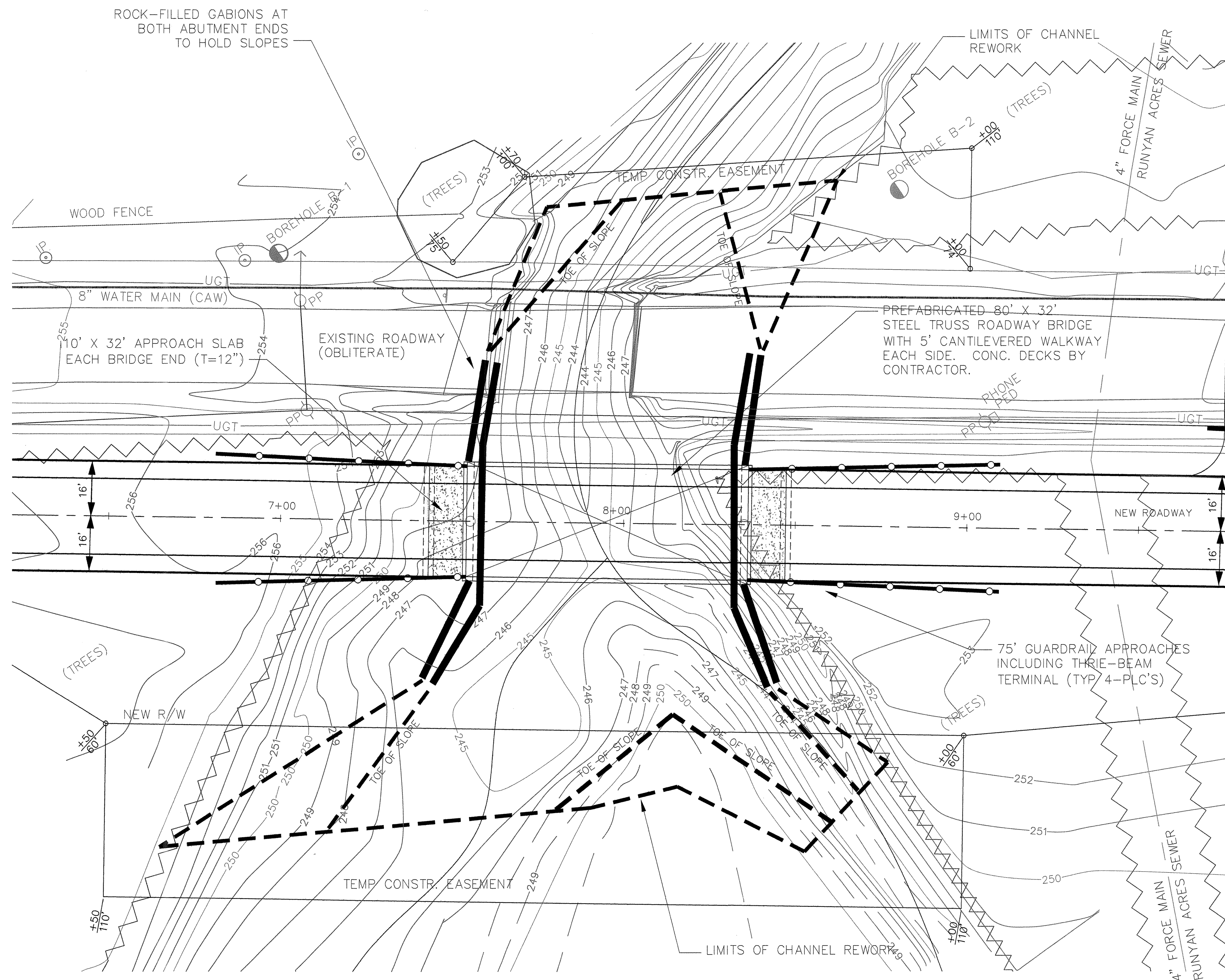
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ENGINEERING & SURVEYING
300 South Rodney Parham, Suite #7
Little Rock, Arkansas 72205
PH: (501) 224-1000

DRAWING NO.

3

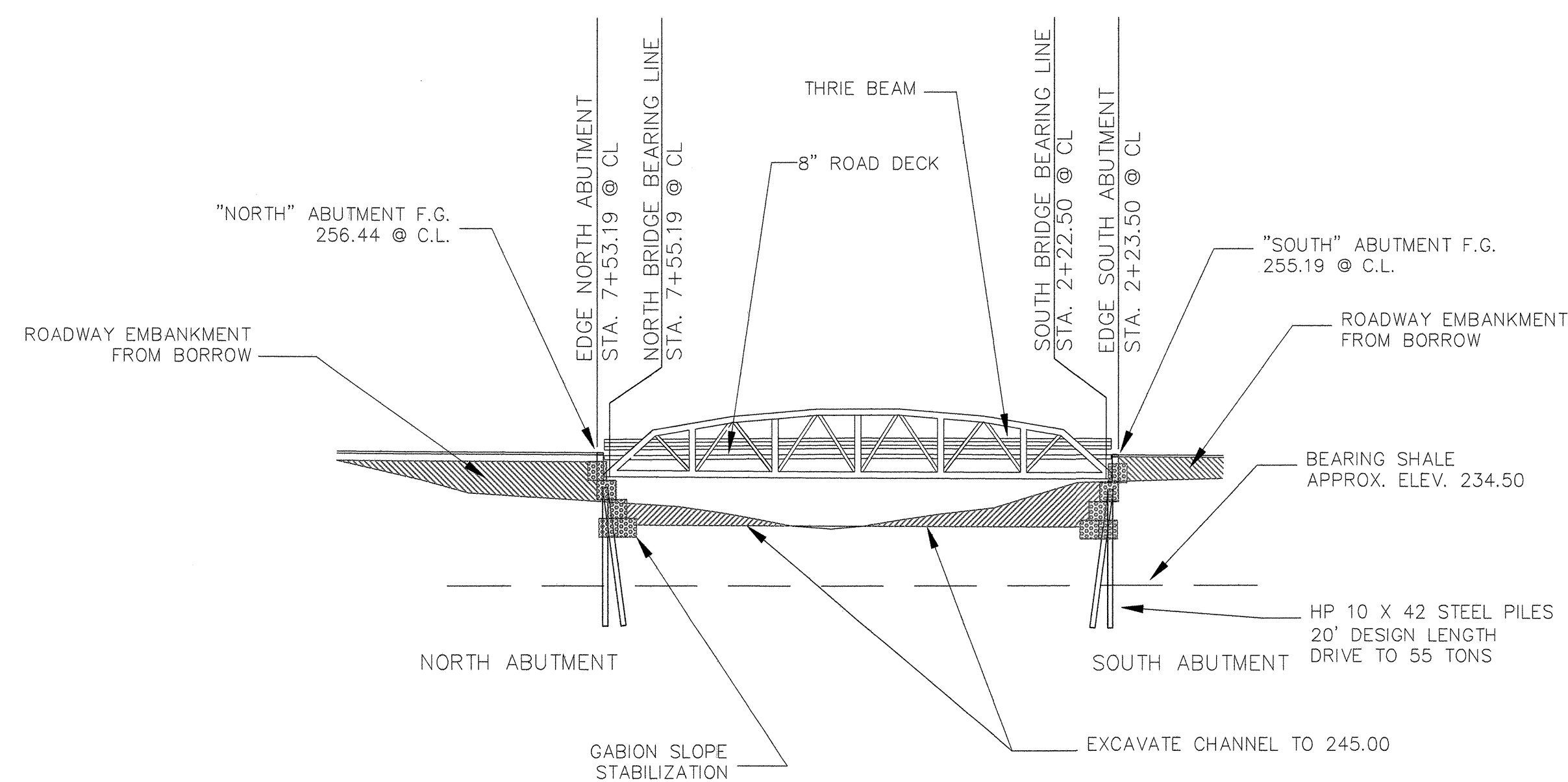
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PLAN VIEW

SCALE: HOR. 1" = 20'



ELEVATION @ ROADWAY CENTERLINE

SCALE: HOR. 1" = 20' VERT. 1" = 20'

GENERAL NOTES

BENCH MARK: Contact Engineer

BRIDGE SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition (2002), Div. 1 with all interim specifications in effect.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2003 edition, with applicable supplemental specifications and special provisions.

Reinforcing Steel (A615 or A617, Gr.60)

METHOD OF DESIGN: LOAD FACTOR

LIVE LOADING: HS 20 44

MATERIALS AND STRENGTHS:

Superstructure Steel
Substructure Concrete (Class S)
Bridge Deck
Reinforcing Steel (A615 or A617, Gr.60)

ASTM A709, Grade 50 (A572) or as specified.
f'c = 3,500 psi
f'c = 3,500 Air Entrained
Fy = 60,000 psi

BORING LOGS: A full report with boring logs is available from Engineer. Contact dhopkins@landmarkeng-sur.com

BRIDGE DECK: Roadway deck shall be 8" reinforced concrete over steel subdeck.
All concrete deck surface shall be given a tine finish in accordance with AHTD 802.2 for Class 5 Bridge Roadway Surface Finish.

STEEL PILINGS: Pilings for abutment end supports shall be HP 10 x 42 driven to a minimum bearing capacity of 55 tons per pile. Piles shall be driven with an approved air, steam or diesel hammer. Drive all piles to a minimum penetration of 2' into firm shale substrate. Piles shall be driven after embankment to bottom of abutments is in place.

EXISTING STRUCTURES: The existing str. consists of 42' x 24' concrete deck over steel structure with concrete support walls. Located approximately 50' Left of Station 7+75.

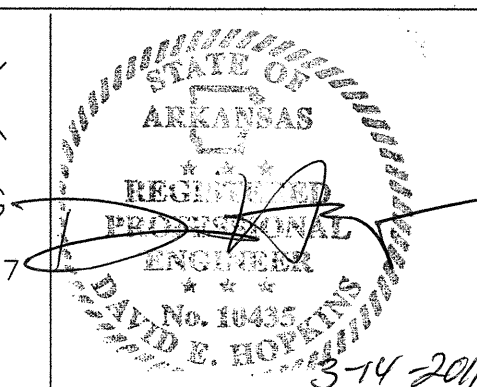
REMOVAL & DISPOSAL OF STRUCTURES: After commissioning of the new Bridge & approaches, the existing Structure shall be Removed In Accordance with Section 202 of the Standard Specifications. Temporary access shall be maintained during construction. See special provisions listed on Sheet 2. The removed bridge shall become the property of the contractor.

LANDMARK

ENGINEERING & SURVEYING

300 SOUTH RODNEY PARHAM, SUITE # 7

LITTLE ROCK, AR 72205

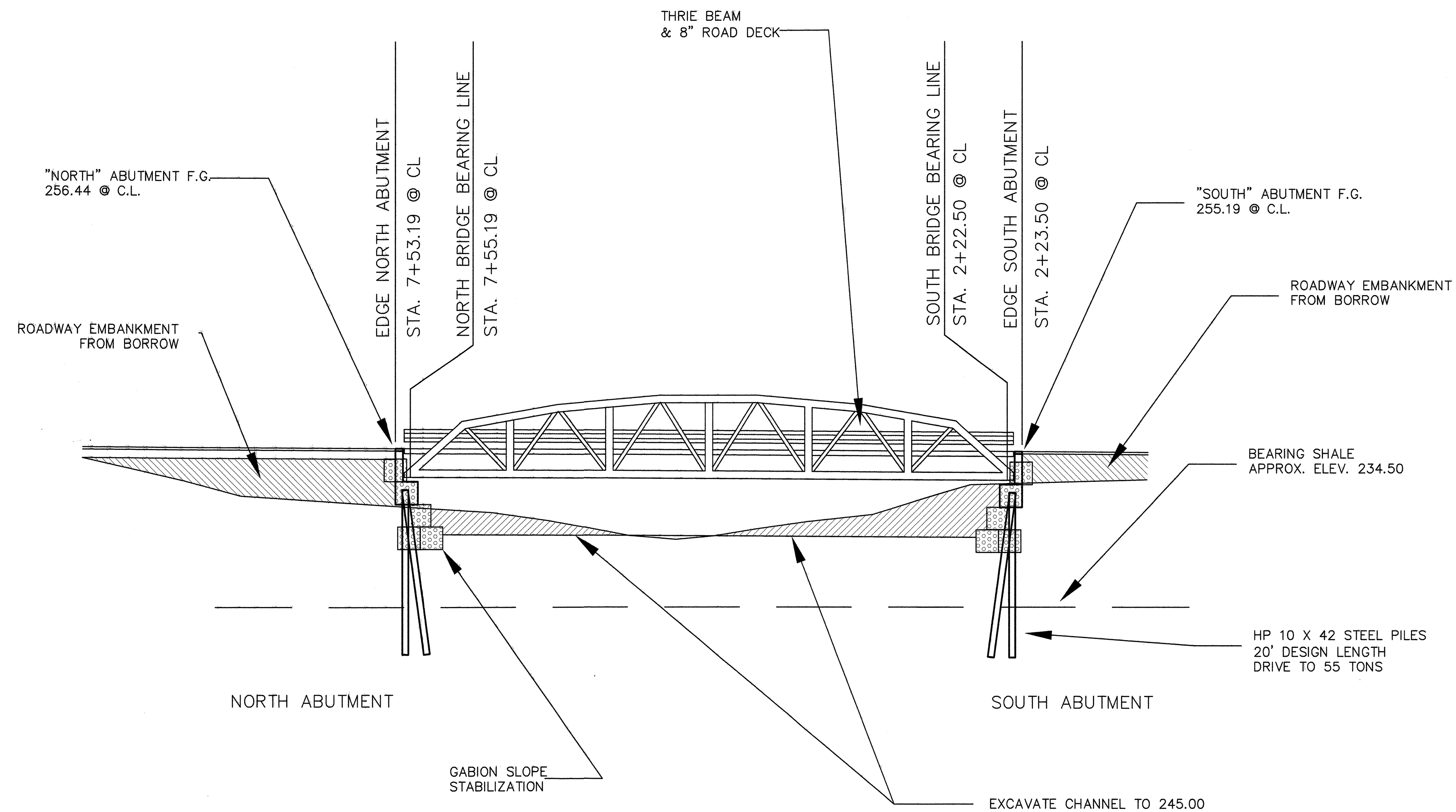


MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD

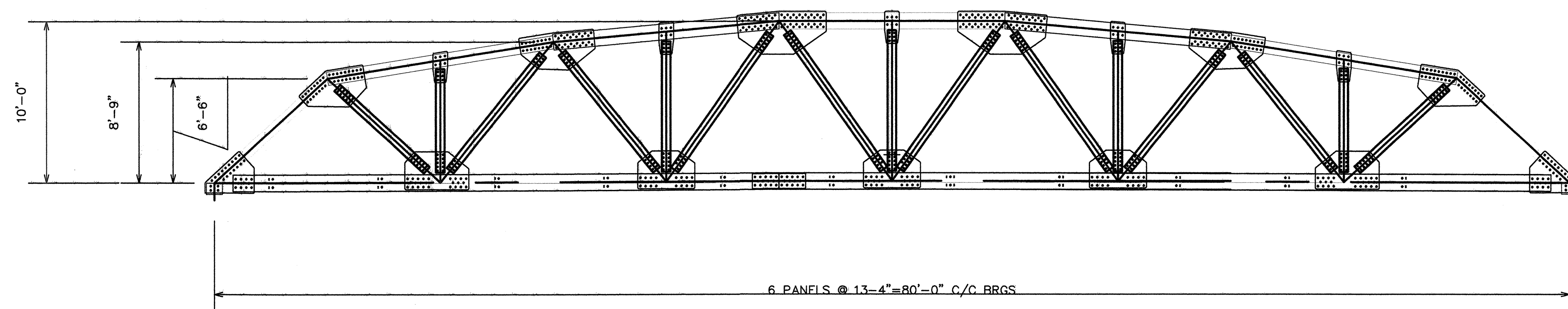
BRIDGE LAYOUT
PULASKI COUNTY, ARKANSAS

MARCH 10, 2011

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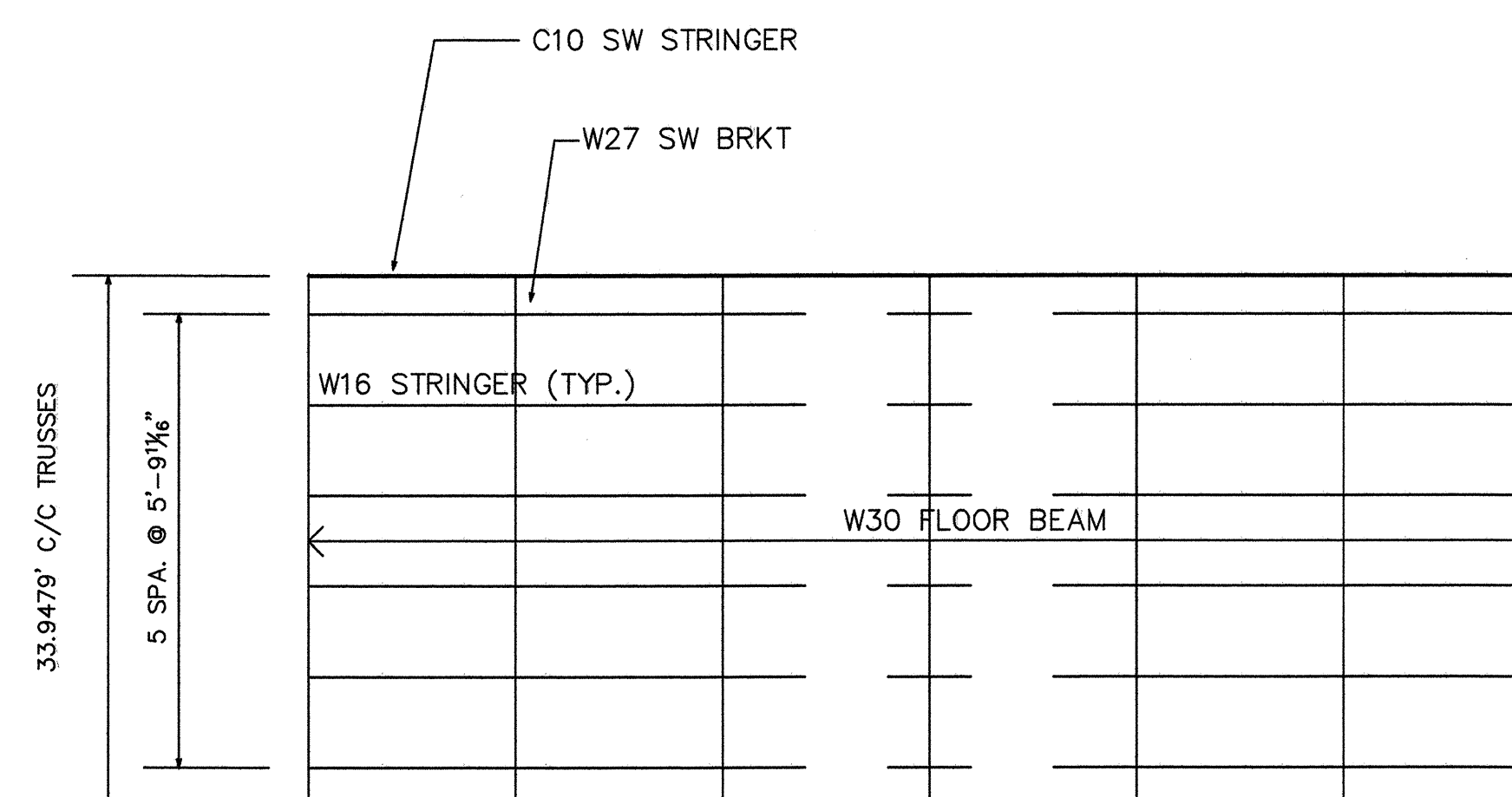


ELEVATION @ ROADWAY CENTERLINE
TRUSS LIFTING WT= 16.75K
APPROX SCALE: 1"=10'

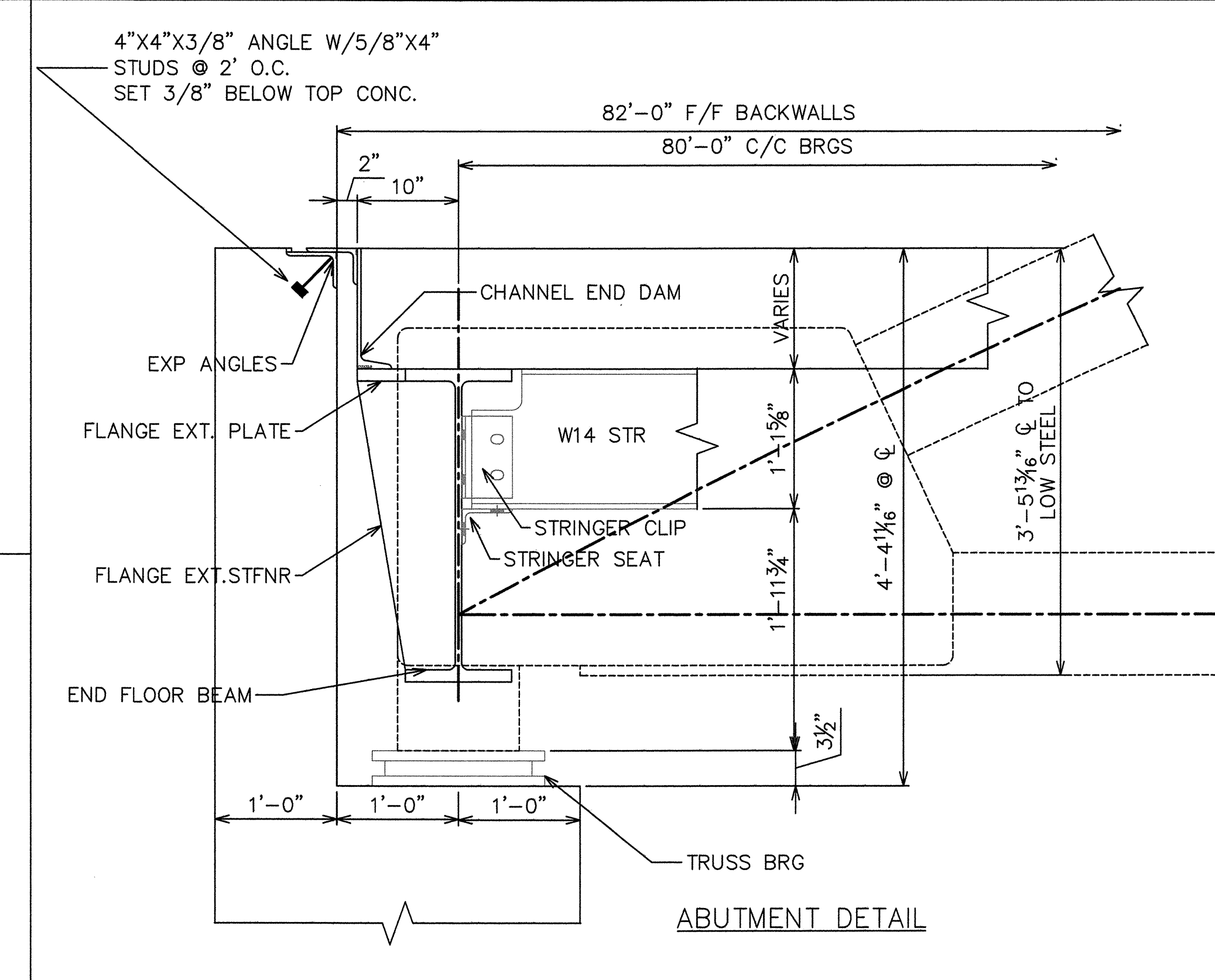
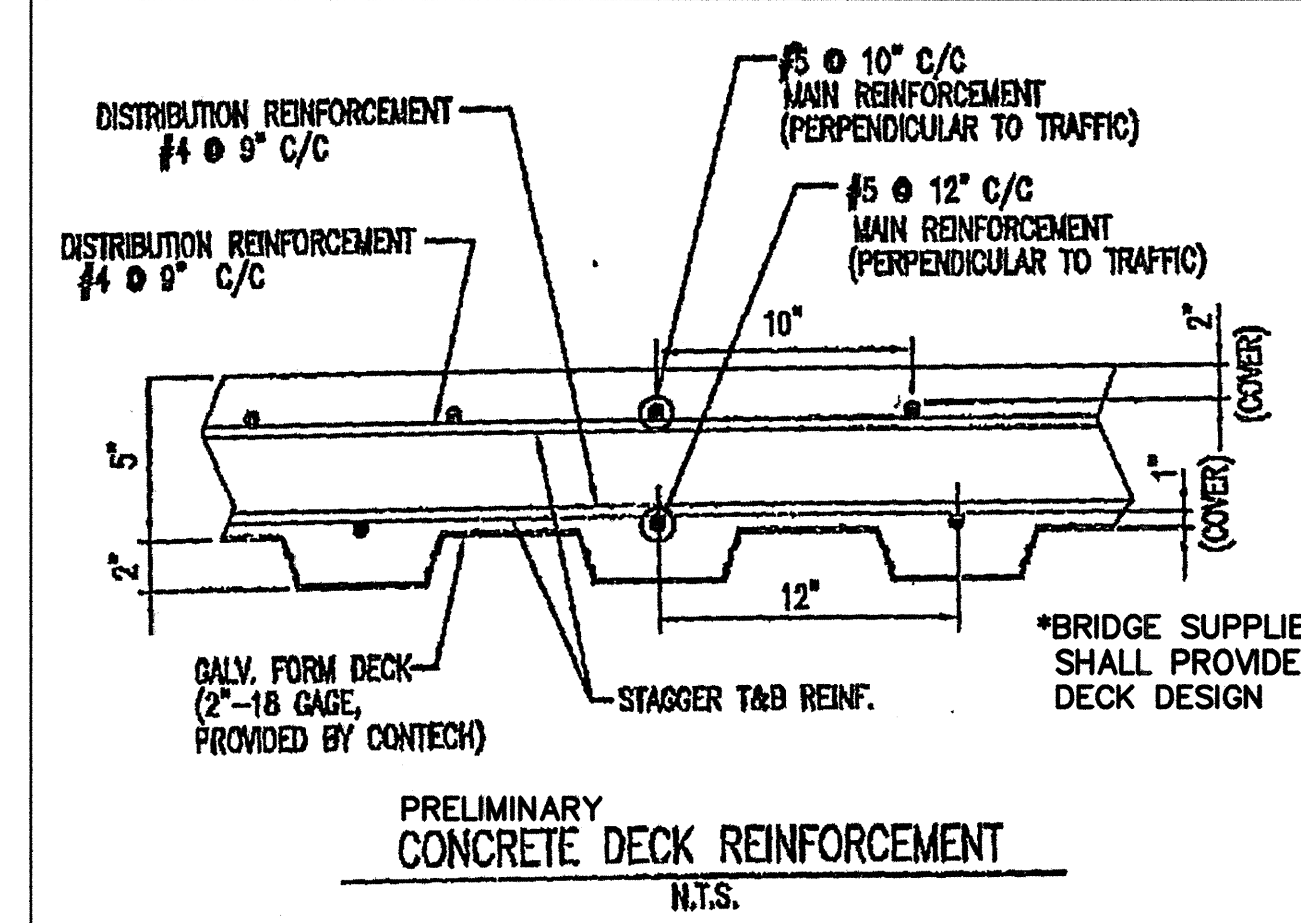
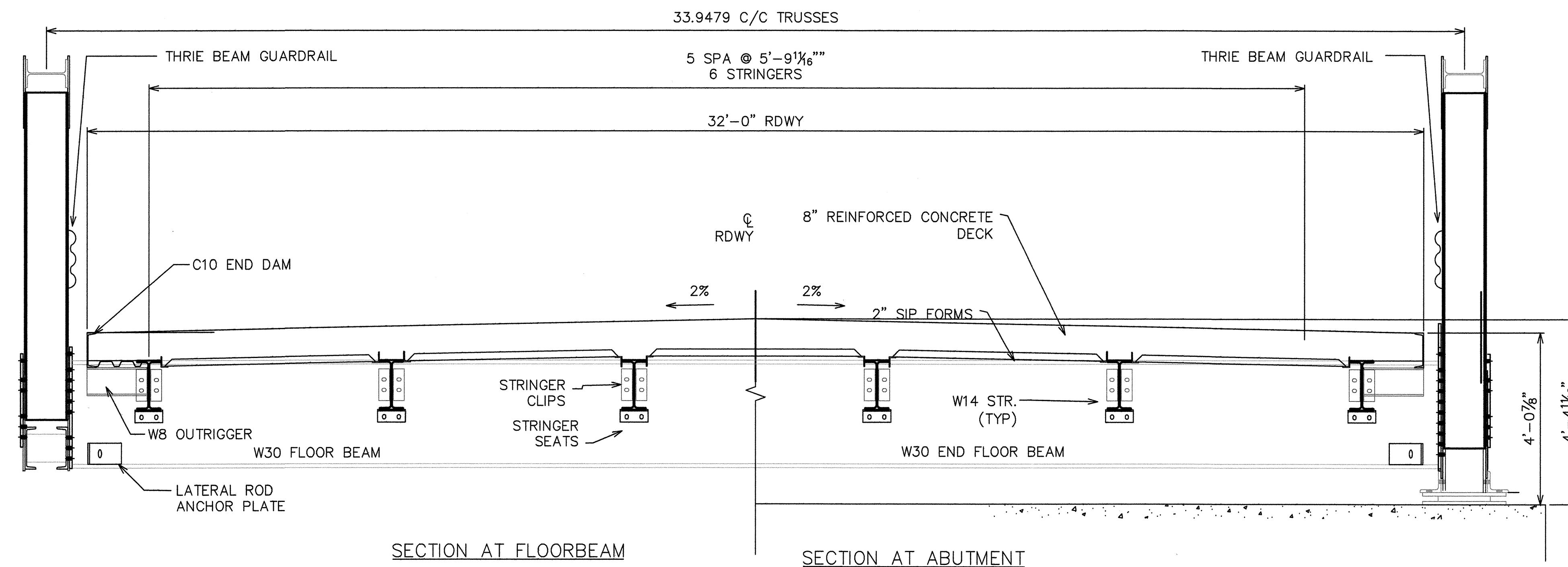


TRUSS DETAIL
TRUSS LIFTING WT= 16.75K
APPROX SCALE: 1"=5'

| PROJECT DESIGN CRITERIA | |
|--|---------|
| SPAN - 80'-0" C/C BEARINGS | |
| DECK WIDTH - 32'-0" | |
| SKEW - N/A | |
| DESIGN LIVE LOAD - HS20 | |
| DESIGN LOADS: | |
| STEEL FLOOR & CONCRETE FILL | 15 PSF |
| 8" AVG CONCRETE THICKNESS | 100 PSF |
| FUTURE WEARING SURFACE | 35 PSF |
| TOTAL | 150 PSF |
| TRUSS SHOE REACTION: | |
| DEAD LOAD | 126.19K |
| LIVE LOAD (HS-20-44) | 83.30K |
| IMPACT | 20.30K |
| PED | 17.00K |
| EXPANSION - N/A | |
| CONNECTIONS - FIELD BOLTED & SHOP WELDED | |



FRAMING PLAN
NOT TO SCALE



GENERAL NOTES:

- DESIGN SPECIFICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION I, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
- MATERIAL:
ALL SUPERSTRUCTURE STEEL SHALL BE ASTM A709, GRADE 50 (A572). UNLESS NOTED OTHER. ALL STEEL GALVANIZED AFTER FABRICATION. ALL FASTENERS UNLESS NOTED OTHERWISE, SHALL BE 7/8" ϕ HIGH STRENGTH BOLTS, ASTM A325 TYPE 1 (GALV.). WITH ASTM A563 GRADE DH OR DH3 NUT AND ONE ASTM F436 WASHER PER BOLT. FASTENERS SHALL BE FURNISHED WITH ROTATIONAL CAPACITY TEST.

FLOOR BEAMS, STRINGERS, BOTTOM CHORD GUSSET PLATES, BOTTOM CHORD & DIAGONALS REQUIRE NFC ZONE 2 CVN (15 FT-LBS @ 40°F)
- CONSTRUCTION/FABRICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION II, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
- WELDING:
ALL WELDING SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE AND THE AASHTO FRACTURE CONTROL, WHERE APPLICABLE.

NON-DESTRUCTIVE TESTS OF ALL WELDS SHALL BE PERFORMED AS FOLLOWS:
FILLET WELDS - VISUAL - 100% - MT. - 10% MIN PER AWS D1.5
- FLOORING:
8" REINFORCED CONCRETE DECK
- ANCHOR BOLTS
THE ANCHOR BOLTS SHALL BE EITHER BE CAST-IN-PLACE DURING ABUTMENT CONSTRUCTION OR DRILLED AND ANCHORED TO THE ABUTMENTS AFTER THE BRIDGE IS ERECTED. THE ANCHOR BOLTS ARE TO BE ANCHORED USING EPON A7 FAST CURING ACRYLIC ADHESIVE OR EQUAL." EPON A7 IS A PRODUCT OF ITW RED HEAD, 2171 EXECUTIVE DRIVE, ADDISON, IL 60101 PHONE:603-350-0370. THE ACRYLIC ADHESIVE IS FURTHER DESCRIBED AS A TWO COMPONENT METHYL METHACRYLATE ADHESIVE, NON-SAG PASTE, MOISTURE INSENSITIVE WHEN CURED, DARK GREY IN COLOR. MEETS ASTM C881-90, TYPE IV, GRADE 3, CLASS A,B, AND C WITH THE EXCEPTION OF GEL TIME AND EPOXY CONTENT.
- PROFILE GRADE: PROFILE GRADE IS -0.56%

NOTE: DRAWINGS RELATIVE DO NOT SCALE



LANDMARK
ENGINEERING & SURVEYING
300 SOUTH RODNEY PARHAM, SUITE # 7
LITTLE ROCK, AR 72205

MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
BRIDGE DETAILS - 2
PULASKI COUNTY, ARKANSAS

MARCH 2011

SHEET 18 OF 26

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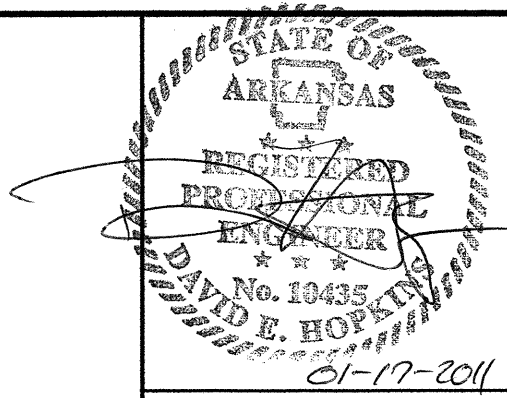
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INDEX & GENERAL NOTES

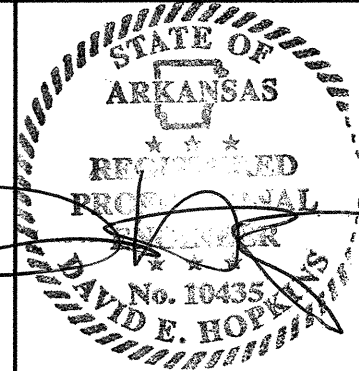
| PROJECT NO. | | PROJ. NO. | | BY | | REVISIONS | | DATE | |
|-------------|-----|-----------|-----|------------|-----|-------------|-----|------|-------|
| DESIGNED BY | DEH | DRAWN BY | ARS | CHECKED BY | DEH | REVIEWED BY | DEH | DATE | SCALE |
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DRAWING NO.

2

SHEET 2 OF



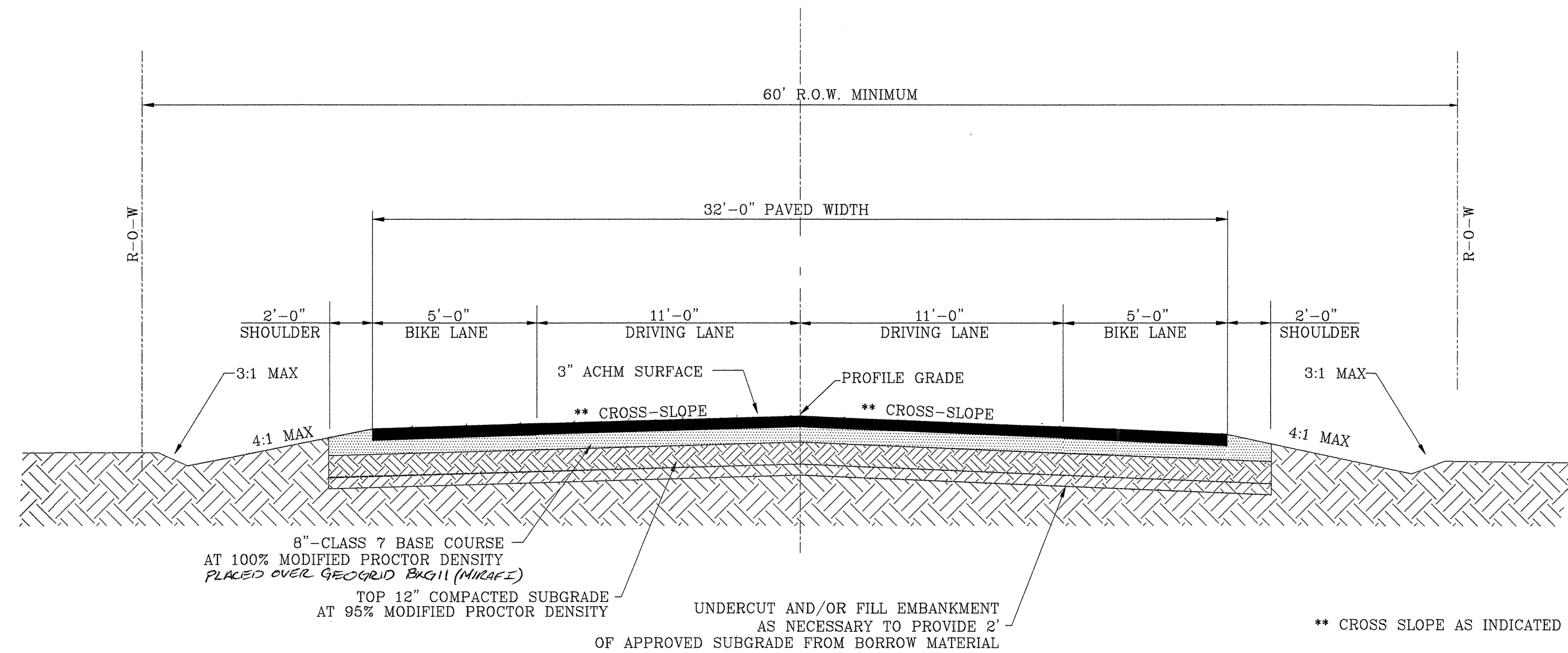
5-1-11

MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

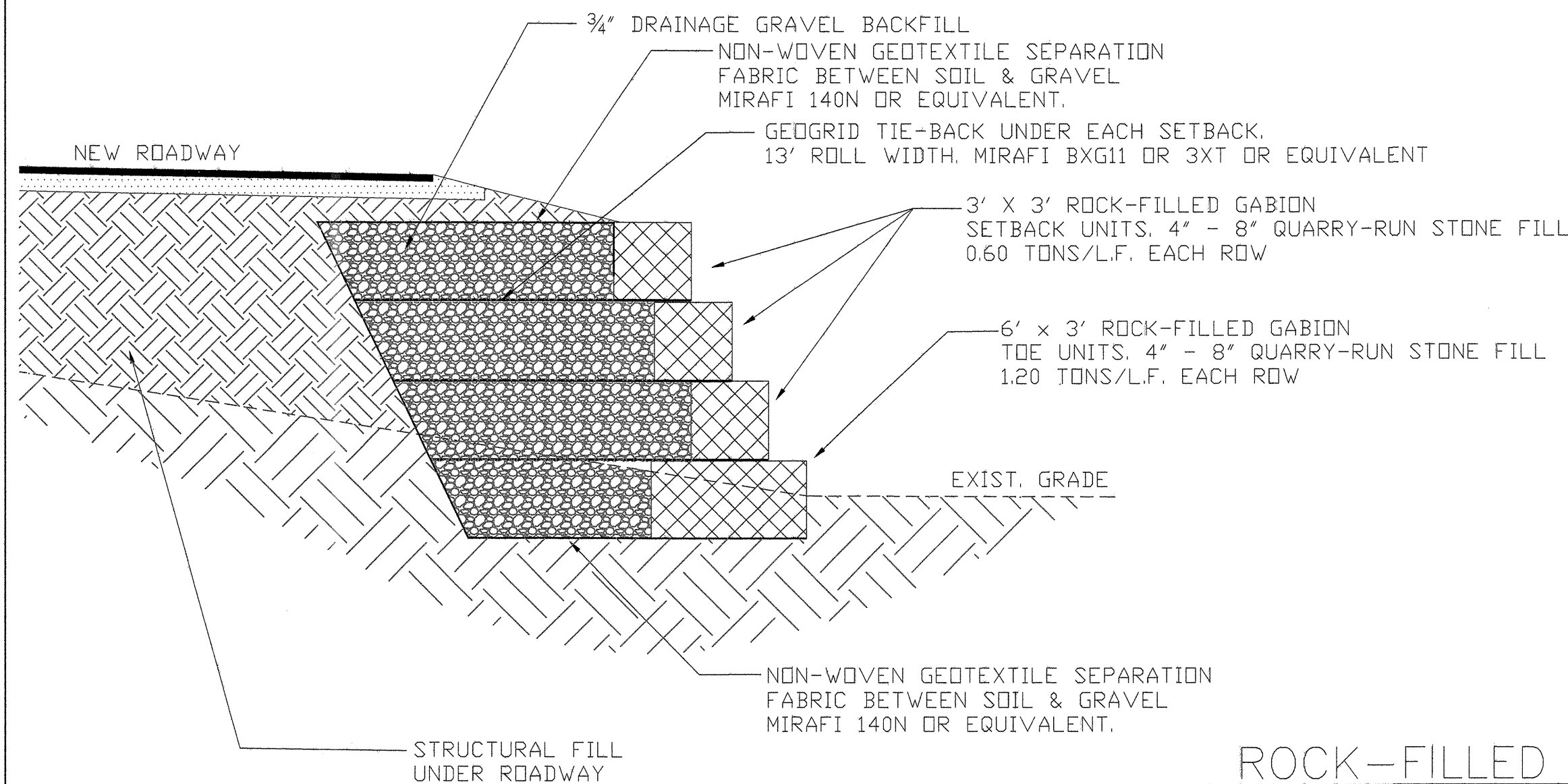
DETAILS

GENERAL ROADWAY NOTES

1. IN AREAS TO RECEIVE BITUMINOUS PAVING, DRIVEWAYS, AND GRAVEL SHOULDER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (AASHTO T-180)
2. REFER TO GEOTECHNICAL REPORT IN REGARD TO QUALITIES OF EXISTING SOILS. SUBGRADE UNDER ROADWAY SHALL BE CONSTRUCTED FROM APPROVED IMPORTED FILL PROVIDING A MINIMUM 2' THICKNESS OF IMPROVED MATERIAL. EXISTING SOILS SHALL BE UNDERCUT AS NECESSARY TO PROVIDE FOR IMPROVED SUBGRADE. UNDERCUT MATERIALS SHALL BE USED TO SHAPE SIDE SLOPES OR REMOVED FROM THE SITE. NO MATERIAL SHALL BE PLACED IN WATERWAYS EXCEPT AS INDICATED ON THE DRAWINGS.
3. CRUSHED STONE- DENSITY OF COMPACTED MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY 100% MAXIMUM (AASHTO T-191).
4. CENTERLINE PROFILE IS FINISH GRADE. MAINTAIN 2% CROSS-SLOPE EXCEPT WHERE NECESSARY TO TRANSITION TO EXISTING PAVEMENT.
5. PAVEMENT TIE-INS REQUIRE BUTT JOINTS TO BE SAW CUT WHERE NEW PAVEMENT JOINS OLD.
6. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO PROCTOR TESTING AND APPROVED PRIOR TO PLACEMENT OF BASE COURSE. BASE COURSE SHALL BE TESTED AND APPROVED PRIOR TO PLACEMENT OF SURFACE COURSE.



PROPOSED KELLOGG ACRES ROAD IMPROVEMENTS
NOT TO SCALE

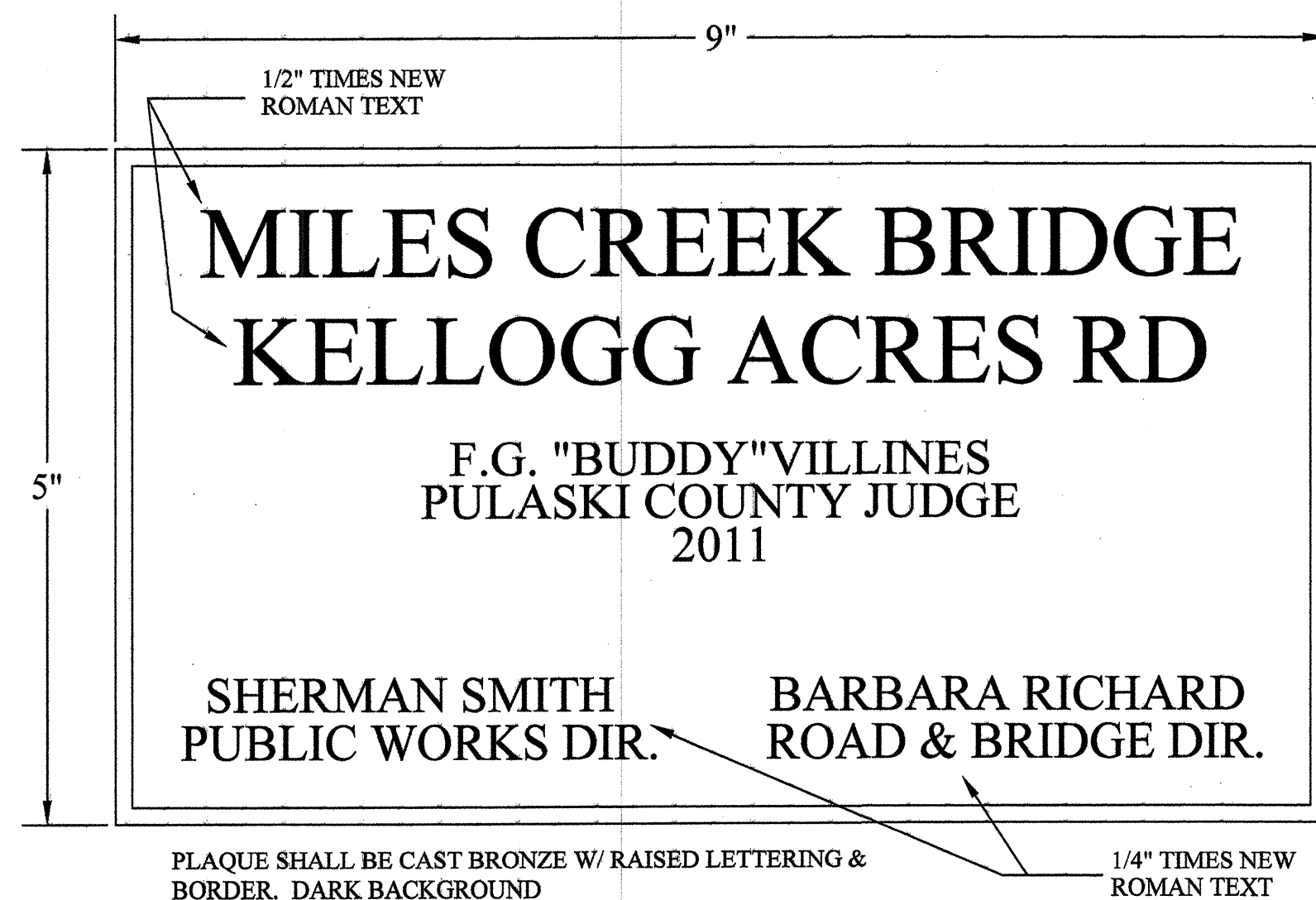


GENERAL GABION NOTES

1. GABION TOE WALL UNITS SHALL BE EMBEDDED A MINIMUM 2' INTO EXISTING SOILS.
2. GABION UNITS SHALL BE TERRA-AQUA PVC-COATED DOUBLE-TWISTED OR EQUIVALENT, TERRA AQUA GABIONS, 1415 N. 32ND ST., FORT SMITH, AR 72904.
3. GABION IN-FILL SHALL BE 4" - 8" DURABLE QUARRY-RUN STONE OR B-STONE.
4. DRAINAGE GRAVEL BACKFILL SHALL BE 3/4" NOMINAL GRAVEL, CRUSHED STONE OR CONCRETE ROCK.
5. WALL SETBACK IS 1.5' PER 3' RISE IN WALL HEIGHT.
6. GEOGRID TIE-BACK SHALL HAVE AN EMBEDMENT LENGTH EQUAL TO WALL HEIGHT.
7. CONTRACTOR SHALL COMPLETE TRAINING INFORMATION PROVIDED BY GABION MANUFACTURER PRIOR TO INSTALLATION. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

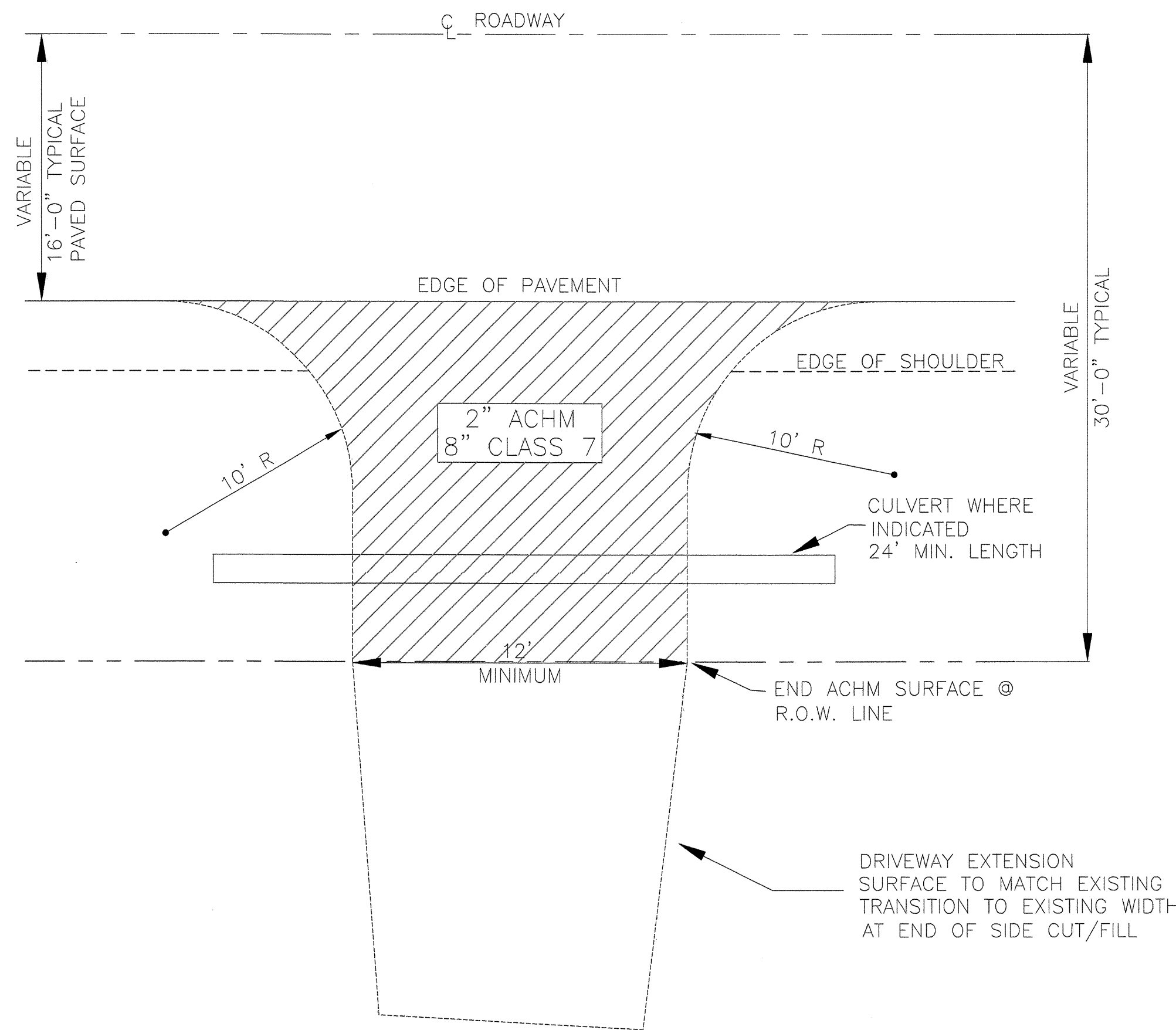
ROCK-FILLED GABIONS

SCALE: 1" = 5'



BRIDGE PLAQUE DETAIL

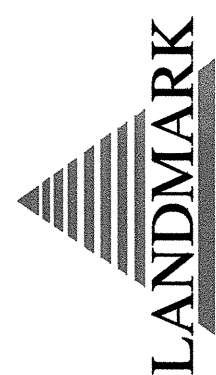
NO SCALE



DETAIL OF PRIVATE ENTRANCES

ENTRANCE DRIVE AREA = 211 S.F.
ADDITIONAL BASE COURSE = 10 TONS
ADDITIONAL ACHM SURFACE = 2.6 TONS

| DATE | PROJECT NO. | PROJ. NO. |
|-------|-------------|-----------|
| 12/12 | DEH | DEH |
| REV01 | DESIGNED BY | DEH |
| REV02 | DRAWN BY | ARS |
| REV03 | CHECKED BY | DEH |
| | REVIEWED BY | DEH |
| | DATE | |
| | SCALE | |

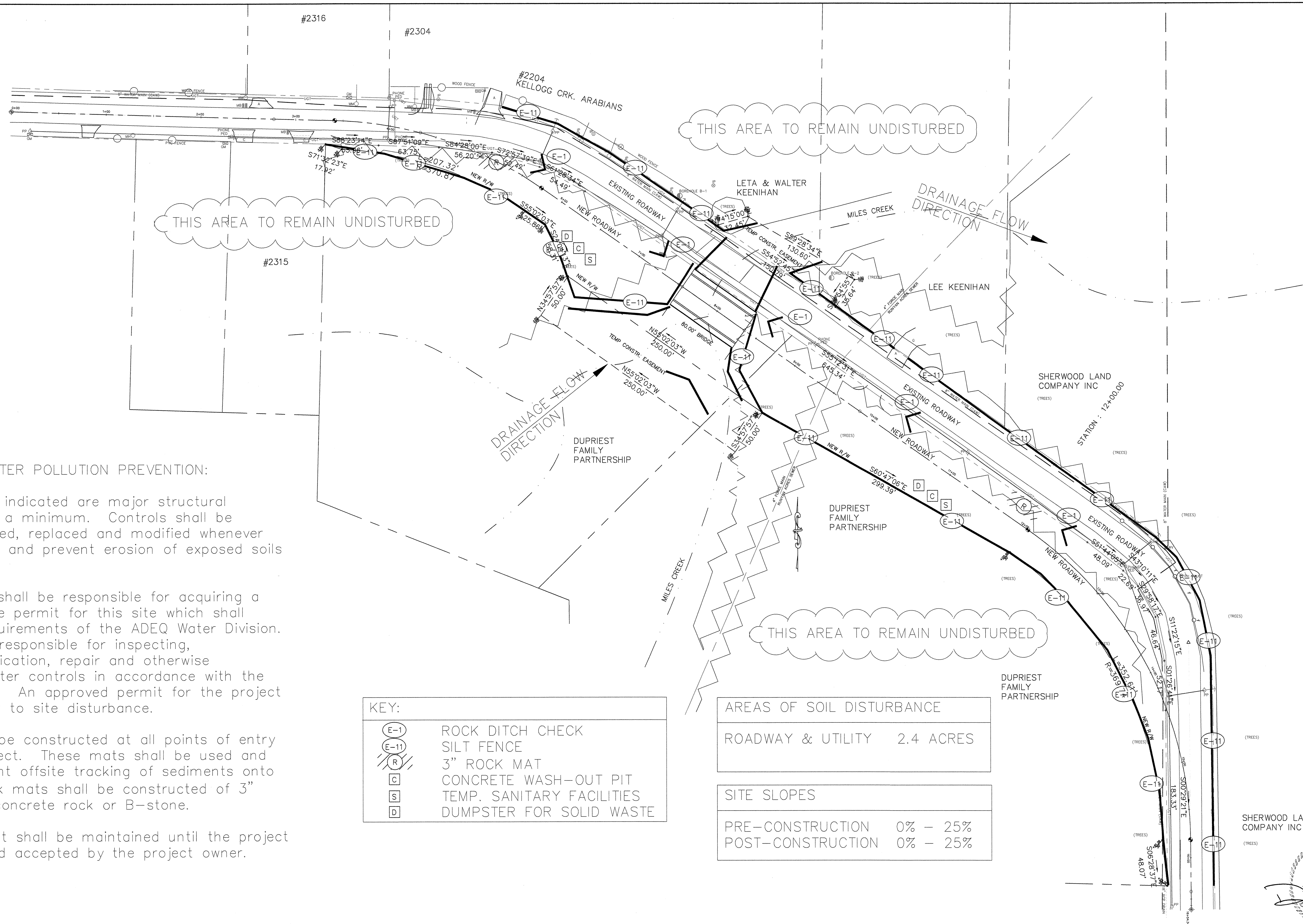


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DRAWING NO.

3

SHEET 3 OF 26



NOTES ON STORMWATER POLLUTION PREVENTION:

1. Control measures indicated are major structural controls required as a minimum. Controls shall be inspected, maintained, replaced and modified whenever necessary to control and prevent erosion of exposed soils from the site.
2. The Contractor shall be responsible for acquiring a stormwater discharge permit for this site which shall comply with the requirements of the ADEQ Water Division. Contractor shall be responsible for inspecting, recordkeeping, modification, repair and otherwise maintaining stormwater controls in accordance with the permit requirements. An approved permit for the project site is required prior to site disturbance.
3. Rock mats shall be constructed at all points of entry or exits to the project. These mats shall be used and maintained to prevent offsite tracking of sediments onto public streets. Rock mats shall be constructed of 3" thick bed of clean concrete rock or B-stone.
4. Stormwater permit shall be maintained until the project is fully stabilized and accepted by the project owner.

SCALE: 1" = 50'

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LITTLE ROCK, AR 72205
PH: (501)224-1000

MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
POLLUTION PREVENTION SITE MAP
PULASKI COUNTY, ARKANSAS

NOVEMBER 23, 2010

SHEET 4 OF 26

| STATION | STATION | CLEARING AND GRUBBING |
|---------|---------|-----------------------------|
| | | STATIONS |
| | | EACH |
| 2+77 | 16+42 | 13.65 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTALS: | | 13.65 |

| STATION | STATION | TEMPORARY SEEDING (ACRE) | LIME | SEEDING | MULCH COVER | WATER |
|-----------------------|---------|--------------------------|------|---------|-------------|----------|
| | | | TONS | ACRE | | M. GALS. |
| 2+77 | 16+42 | | 4.0 | 2.00 | 2.00 | 162 |
| | | | | | | |
| TEMP. EROSION CONTROL | | | | | | |
| 2+77 | 16+42 | 2.00 | | | 1.00 | 81 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTALS: | | 2.00 | 4.0 | 2.00 | 3.00 | 243.0 |

| STATION | SIDE | STANDARD SIGN NO. OM-3 | STANDARD SIGN NO. W1-2 | STANDARD SIGN | SUPPORT ASSEMBLIES TYPE A | STANDARD DRAWING NO. |
|---------|------|------------------------------|------------------------------|------------------|---------------------------------|----------------------------|
| | | EACH | EACH | SQ. FT. | EACH | |
| 7+55 | LT | 1 | | 3 | 1 | SHS-1 |
| 7+55 | RT | 1 | | 3 | 1 | SHS-1 |
| | | | | | | |
| 8+35 | LT | 1 | | 3 | 1 | SHS-1 |
| 8+35 | RT | 1 | | 3 | 1 | SHS-1 |
| 1+91 | RT | | 1 | 6.25 | 1 | SHS-1 |
| 7+25 | LT | | 1 | 6.25 | 1 | SHS-1 |
| 10+50 | RT | | 1 | 6.25 | 1 | SHS-1 |
| 17+31 | LT | | 1 | 6.25 | 1 | SHS-1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTALS: | | | | 37 | 8 | |

| STATION | STATION | SIDE | GUARD RAIL (TYPE A) | TERNAL ANCHOR POST (TYPE 1) | THRIE BEAM GUARDRAIL TERMINAL | STANDARD DRAWING NO |
|---------|---------|-------|---------------------------|--------------------------------------|-------------------------------------|---------------------------|
| | | | LIN FT. | EACH | EACH | |
| 6+80.19 | 7+36.44 | RIGHT | 56.25 | | | GR-9 |
| 6+80.19 | 7+36.44 | LEFT | 56.25 | | | GR-9 |
| 8+53.94 | 9+10.19 | RIGHT | 56.25 | | | GR-9 |
| 8+53.94 | 9+10.19 | LEFT | 56.25 | | | GR-9 |
| | | | | | | |
| 6+80.19 | | RIGHT | | 1 | | GR-1 |
| 6+80.19 | | LEFT | | 1 | | GR-1 |
| 9+10.19 | | RIGHT | | 1 | | GR-1 |
| 9+10.19 | | LEFT | | 1 | | GR-1 |
| 7+36.44 | 7+55.19 | RIGHT | | | 1 | GR-10 |
| 7+36.44 | 7+55.19 | LEFT | | | 1 | GR-10 |
| 8+35.19 | 8+53.94 | RIGHT | | | 1 | GR-10 |
| 8+35.19 | 8+53.94 | LEFT | | | 1 | GR-10 |
| | TOTALS: | | 225 | 4 | 4 | |

| STATION | STATION | YELLOW MARKING | WHITE MARKING | BIKE LANE SYMBOL EACH | STANDARD DRAWING NO. |
|---------|---------|----------------------------------|-------------------------------------|-----------------------|----------------------|
| | | DOUBLE YELLOW CENTERLINE LIN FT. | SINGLE EDGE STRIPE 4" WIDE LIN. FT. | | |
| 2+77 | 16+42 | 1365 | 2730 | | PM-1 |
| 4+00 | LT & RT | | | 2 | |
| 7+00 | LT & RT | | | 2 | |
| 10+00 | LT & RT | | | 2 | |
| 13+00 | LT & RT | | | 2 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTALS: | | 1365 | 2730 | 8 | |

| STATION | STATION | UNCLASSIFIED EXCAVATION | | BORROW MATERIAL | SHAPING ROADWAY SECTION |
|---------|---------|-------------------------|----------------|-----------------|-------------------------|
| | | ROADWAY | BRIDGE CHANNEL | ROADWAY | STATION |
| | | CY. YDS | CY. YDS | CY. YDS | |
| 2+77 | 7+55.19 | 1142 | | 1581 | 4.78 |
| 8+35.19 | 16+42 | 1311 | | 2882 | 8.07 |
| 7+55.19 | 8+35.19 | | 300 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTALS: | | 2453 | 300 | 4463 | 12.85 |

| STATION AND/OR LOCATION | W20-1 | | | | W20-7a | | W8-11 | | W8-9a | | VERTICAL PANELS (VP-1R) | BARRICADES (TYPE III) 8'-0" | STANDARD DRAWING NUMBER |
|--------------------------------|-------|---------|-----|---------|--------|---------|-------|---------|-------|---------|-------------------------|--------------------------------|-------------------------|
| | 1000 | | 500 | | 500 | | | | | | | | |
| | NO. | SQ. FT. | NO. | SQ. FT. | NO. | SQ. FT. | NO. | SQ. FT. | NO. | SQ. FT. | EACH | LIN. FT. | |
| 2+50 TO 5+50 ● EDGE OLD ROAD | | | | | | | | | | | 6 | | TC-3 |
| 13+50 TO 16+50 ● EDGE OLD ROAD | | | | | | | | | | | 6 | | TC-3 |
| 5+00 ● TIE-IN POINT | | | | | | | | | | | | 32 | TC-3 |
| 14+50 ● TIE-IN POINT | | | | | | | | | | | | 32 | TC-3 |
| | | | | | | | | | | | | | |
| STA 7+23 RIGHT | 1 | 16 | | | | | | | | | | | TC-1 |
| STA 2+23 RIGHT | | | 1 | 16 | 1 | 9 | | | | | | | TC-1 |
| STA 26+42 LEFT | 1 | 16 | | | | | | | | | | | TC-1 |
| STA 21+42 LEFT | | | 1 | 16 | 1 | 9 | | | | | | | TC-1 |
| | | | | | | | | | | | | | TC-1 |
| STA 2+00 RIGHT | | | | | | | 1 | 9 | | | | | TC-1 |
| STA 2+77 RIGHT | | | | | | | | | 1 | 9 | | | TC-1 |
| STA 13+00 S. EDGE EXIST ROAD | | | | | | | 1 | 9 | | | | | TC-1 |
| STA 13+75 S EDGE EXIST ROAD | | | | | | | | | 1 | 9 | | | TC-1 |
| STA 17+00 N EDGE EXIST. ROAD | | | | | | | 1 | 9 | | | | | TC-1 |
| STA 5+50 N. EDGE EXIST. ROAD | | | | | | | 1 | 9 | | | | | TC-1 |
| TOTALS: | | 32 | | 32 | | 18 | | 36 | | 18 | 12 | 64 | |

| STATION | STATION | DESCRIPTION | ASPHALT PAVEMENT | CONC & STEEL BRIDGE | BRIDGE FOUNDATION STRUCTURES | GUARD RAIL | STANDARD SIGNS |
|---------|---------|-------------------|---------------------|------------------------|------------------------------------|------------|-------------------|
| | | | SQ. YD. | LUMP SUM | LUMP SUM | LIN FT | EACH |
| 4+00 | 15+25 | EXIST. ASPH. RDWY | 2750 | | | | |
| 4+58 | 5+03 | EXIST. BRIDGE | | 1 | 1 | | |
| 7+00 | 8+50 | GUARD RAILS * | | | | 300 | |
| 12+50 | 14+30 | GUARD RAILS * | | | | 200 | |
| ENTIRE | JOB | SIGNS * | | | | | 6 |
| TOTALS: | | | 2750 | 1 | 1 | 500 | 6 |

SHEET 5 OF 26

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BASE & SURFACING

| STATION | STATION | AGGREGATE BASE COURSE (CLASS 7) | TACK COAT | | ASPHALTIC LEVELLING | | ACHM SURFACE CSE. | | COLD MILLING ASPHALT PAVEMENT | SAWCUT ASPHALT PAVEMENT | GEOTEXTILE GEOGRID MIRAFI BXG II |
|---------|---------|--|-----------|---------|---------------------|-------|-------------------|------------------|-------------------------------------|-------------------------------|--|
| | | | SQ. YDS. | GALLONS | CU.FT. | ACHM | SQ. YDS. | ACHM (12.5mm) | | | |
| | | TONS | | | | TON | | TON | SQ. YD. | LIN. FT. | SQ. YD. |
| 2+77 | 7+55 | 607 | — | — | SEE | BELOW | 1700 | 281 | SEE | BELOW | 1480 |
| 8+35 | 16+42 | 1229 | — | — | SEE | BELOW | 2852 | 471 | SEE | BELOW | 3000 |
| 2+77 | 5+00 | — | 440 | 27 | 938 | 69 | — | — | 440 | 122 | — |
| 14+30 | 16+42 | — | 450 | 27 | 300 | 22 | — | — | 450 | 125 | — |
| 4+32.68 | LEFT | 21 | — | — | — | — | 51 | 6 | — | — | |
| 4+91.59 | LEFT | 45 | — | — | — | — | 110 | 12 | — | — | |
| 9+83.66 | LEFT | 60 | — | — | — | — | 132 | 15 | — | — | |
| TOTALS: | | 1962 | | 54 | | 91 | | 785 | 890 | 247 | 4480 |

USE:
BASIS OF ESTIMATE:
AGGREGATE BASE COURSE -----136 LBS. PER CU. FT.
TACK COAT ----- 0.03 GAL. PER SQ. YD.
ASPHALT SURFACE COURSE ----- 110 LBS. PER SQ. YD. PER INCH THICKNESS
ASPHALT LEVELLING ----- 146 LBS PER CU. FT.

ROCK-FILLED GABIONS

| STATION | STATION | LOCATION | 6'X3' TOE WALL | 3'X3' SET-BACK | STONE FILL | DRAINAGE GRAVEL | SEPARATION FABRIC | GEOGRID TIE-BACK |
|---------|---------|----------|-------------------|-------------------|------------|--------------------|----------------------|---------------------|
| | | | LIN FT | LIN FT | | | | |
| 7+40 | 7+55 | CROSS | 120 | 216 | 144 | 130 | 600 | 435 |
| 8+35 | 8+45 | CROSS | 110 | 170 | 132 | 102 | 550 | 400 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTALS | | | 230 | 386 | 276 | 232 | 1150 | 835 |

EROSION CONTROL DEVICES

| STATION | STATION | LOCATION | SIDE | SILT FENCE (E-11) | ROCK DITCH CHECK (E-6) | STANDARD DRAWING NO. |
|---------|---------|------------|---------|-------------------------|------------------------------|----------------------------|
| | | | | LINEAR FEET | EACH | |
| 3+50 | 16+30 | R/W LINE | RIGHT | 1080 | | TEC-1 |
| 5+00 | 16+30 | R/W LINE | LEFT | 1130 | | TEC-1 |
| 3+50 | 16+30 | DITCH LINE | LT & RT | | 10 | TEC-1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTALS | | | | | | |

MAIL BOXES

| STATION | SIDE | SINGLE MAIL BOX ASSEMBLY (COMPLETE) | DOUBLE MAIL BOX ASSEMBLY (COMPLETE) | STANDARD DRAWING NO. |
|---------|-------|--|--|----------------------------|
| | | EACH | EACH | |
| 2+87 | RIGHT | 1 | — | MB-1 |
| 4+14 | LEFT | 1 | — | MB-1 |
| 4+75 | LEFT | 1 | — | MB-1 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTALS | | 3 | 0 | |

BENCH MARKS

| NO. | DESCRIPTION |
|-----|--|
| 1 | NAIL & SHINER IN ROAD WAY @ STA 0+00 ELEV. 266.95 |
| | |
| | |
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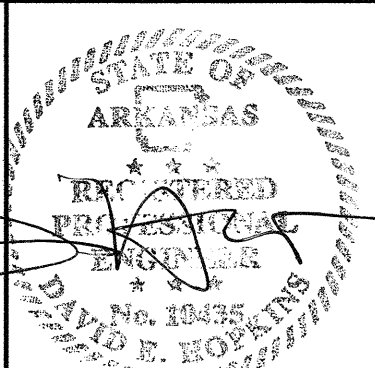
NOTE: BENCH MARKS TO BE FURNISHED
AND PLACED BY ENGINEER.

REVISIONS

| DATE | REVISION | SHEET NO. |
|------|----------|-----------|
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DRAINAGE STRUCTURES

| STATION | SIDE | 15" RCP CULVERT | STANDARD DRAWING NO |
|---------|------|--------------------|---------------------------|
| | | LIN. FT. | |
| 4+32.68 | LEFT | 24 | PCC-1 |
| 4+91.69 | LEFT | 24 | PCC-1 |
| 9+83.66 | LEFT | 24 | PCC-1 |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTALS | | 72 | |



MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

QUANTITIES - 2

| PROJECT NO. | PROJ. NO. | BY | REVISIONS | DATE |
|-------------|-----------|----|-----------|------|
| | | | | |
| DESIGNED BY | DEH | | | |
| DRAWN BY | ARS | | | |
| CHECKED BY | DEH | | | |
| REVIEWED BY | DEH | | | |
| DATE | | | | |
| SCALE | | | | |

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DRAWING NO.

6

SHEET 6 OF 26

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SCHEDULE OF BRIDGE QUANTITIES

| BRIDGE NUMBER CODE NUMBER NAME PLATE TITLE | UNIT OF STRUCTURE | ITEM NO. | | 801 | SS&802 | SP NO. 1 | SS&804 | 805 | 812 |
|---|---------------------------|----------|------|---|----------------------------------|---|------------------------------------|--------------------------------------|---|
| | | UNIT | ITEM | UNCLASSIFIED EXCAVATION FOR STRUCTURES-- BRIDGE | CLASS S CONCRETE BRIDGE | 80' SPAN PREFABRICATED STEEL BRIDGE (AS DETAILED) | REINFORCING STEEL (GRADE 60) | STEEL PILING HP 12X42 END BENT | BRIDGE PLACQUE PLATE (AS DETAILED) |
| | | | | CU. YD. | CU. YD. | EACH | LB. | LIN. FT | EACH |
| HS-20-44 MILES CREEK 2011 | NORTH ABUTMENT (END BENT) | | | | 18.5 | | 2800 | 100 | |
| | BRIDGE | | | 300 | 65.11 | 1 | 13560 | | |
| | SOUTH ABUTMENT (END BENT) | | | | 18.5 | | 2800 | 100 | 1 |
| | | | | | | | | | |
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| | | | | | | | | | |
| | TOTALS FOR JOB | | | 300 | 102.11 | 1 | 19160 | 200 | 1 |

APPROACH SLABS

| STATION | STATION | CONCRETE | REINF. STEEL |
|---------|---------|----------|-----------------|
| | | CU. YD | LBS |
| 7+43.19 | 7+53.19 | 18.5 | 966 |
| 8+37.19 | 8+47.19 | 18.5 | 966 |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTALS | | 37 | 1932 |



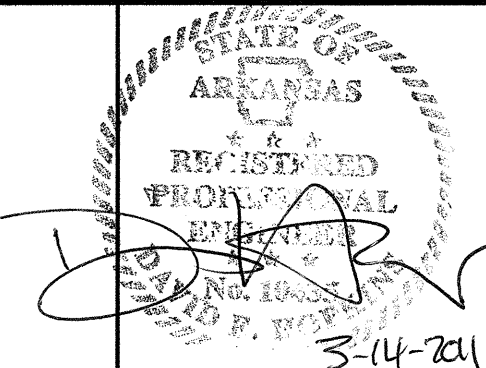
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Little Rock, Arkansas 72205
PH: (501) 224-1000



LANDMARK

| PROJECT NO. PROJ. NO. | | BY | | REVISIONS | | DATE | |
|-----------------------|--------|--------|--------|-----------|--------|--------|--------|
| DESIGNED BY | DEH | REV'D1 | REV'D1 | REV'D1 | REV'D1 | REV'D1 | REV'D1 |
| DRAWN BY | ARS | REV'D2 | REV'D2 | REV'D2 | REV'D2 | REV'D2 | REV'D2 |
| CHECKED BY | DEH | REV'D3 | REV'D3 | REV'D3 | REV'D3 | REV'D3 | REV'D3 |
| REVIEWED BY | DEH | REV'D3 | REV'D3 | REV'D3 | REV'D3 | REV'D3 | REV'D3 |
| DATE | 3/2011 | | | | | | |
| SCALE | | | | | | | |

MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
SCHEDULE OF BRIDGE QUANTITIES

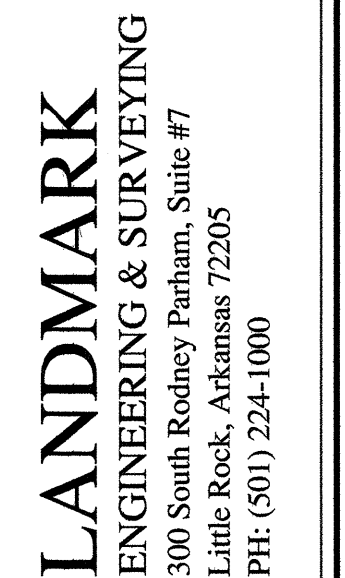


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ARIZONA
RECEIVED
JAN 10 1964
DAVID E. ROBERTSON

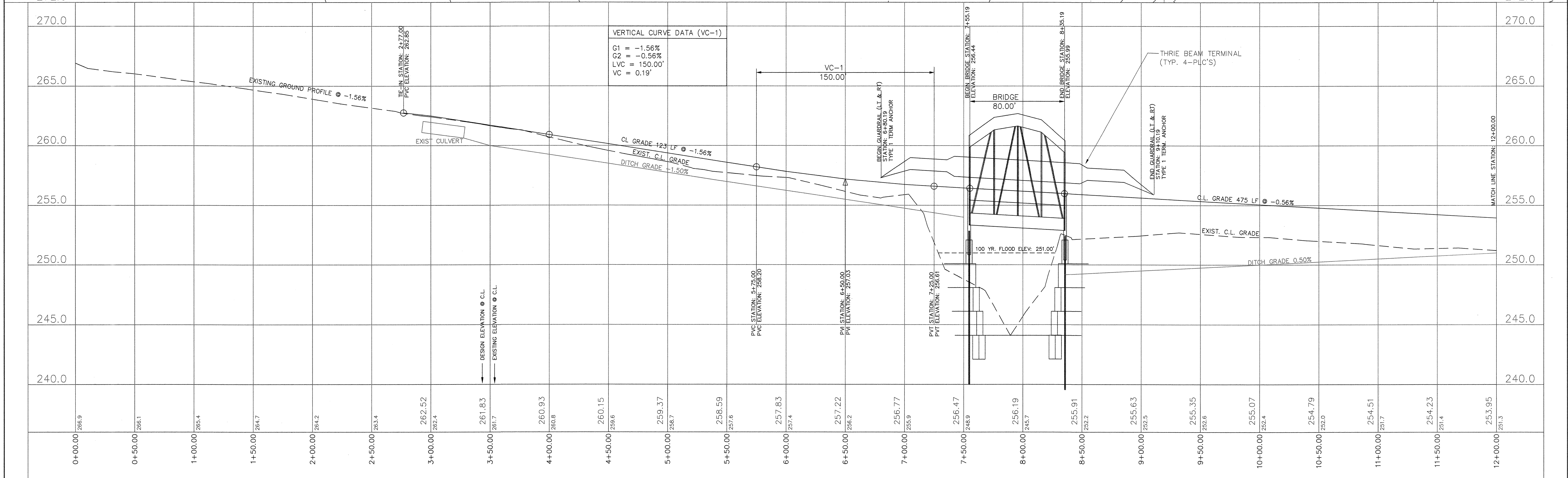
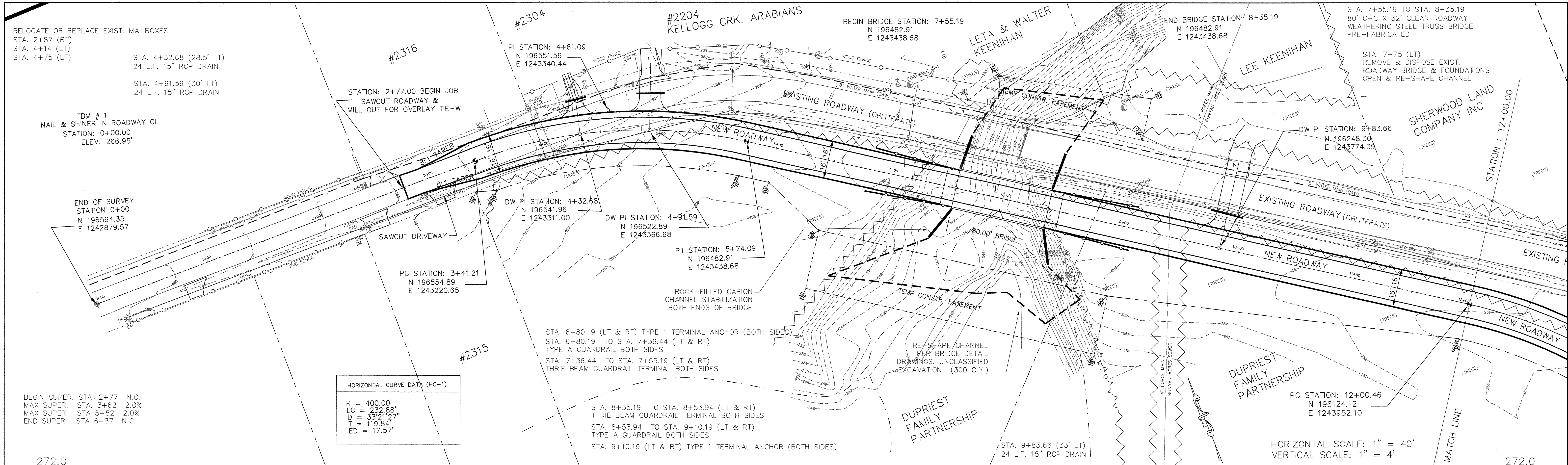
MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
SUMMARY OF QUANTITIES

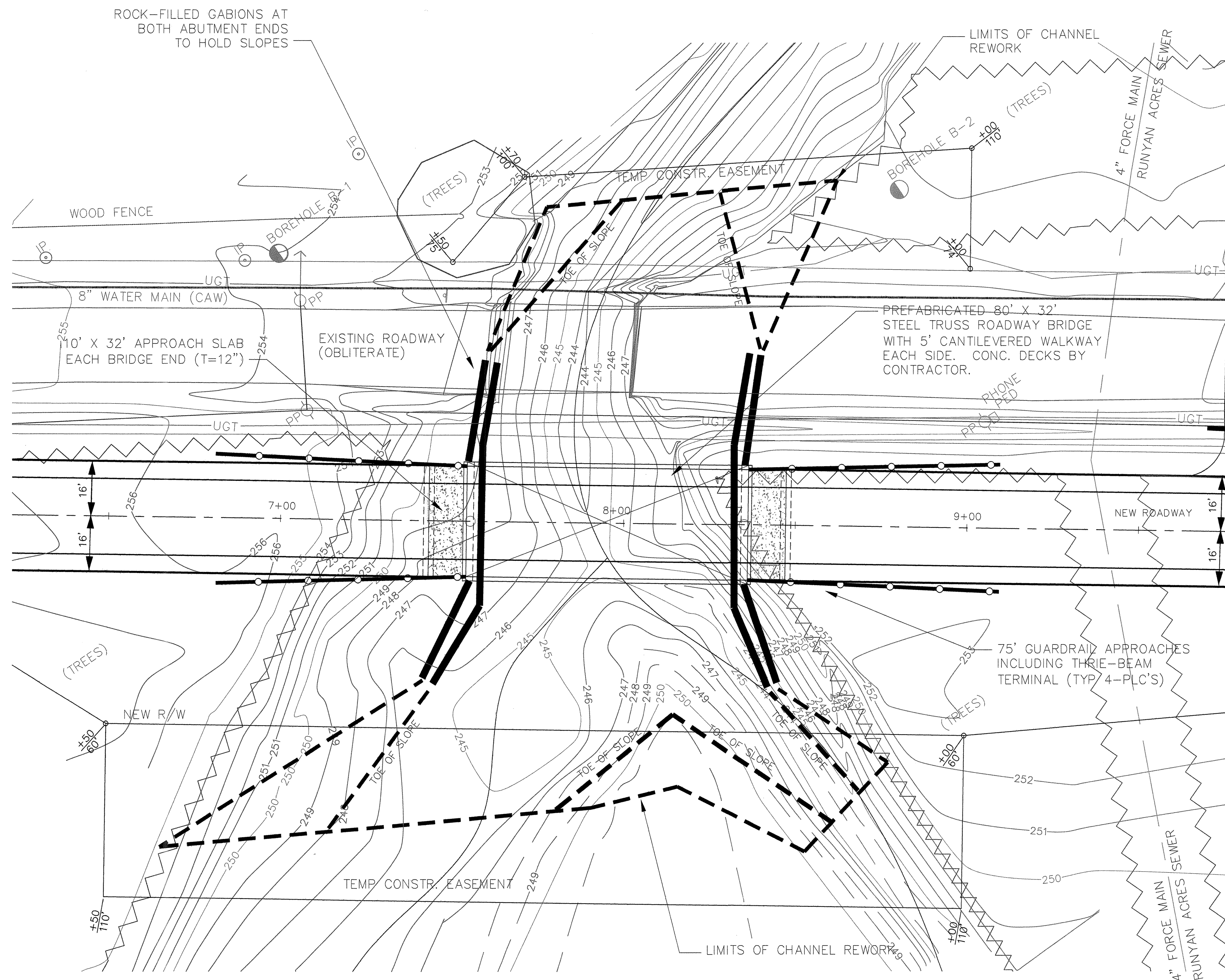
| PROJECT NO. | PROJ_NO. | BY | REVISIONS | DATE |
|-------------|------------|----|-----------|--------|
| DESIGNED BY | DEH | | | REV011 |
| DRAWN BY | ARS | | | REV012 |
| CHECKED BY | DEH | | | REV013 |
| REVIEWED BY | DEH | | | |
| DATE | MARCH 2011 | | | |
| SCALE | NONE | | | |



DRAWING NO.

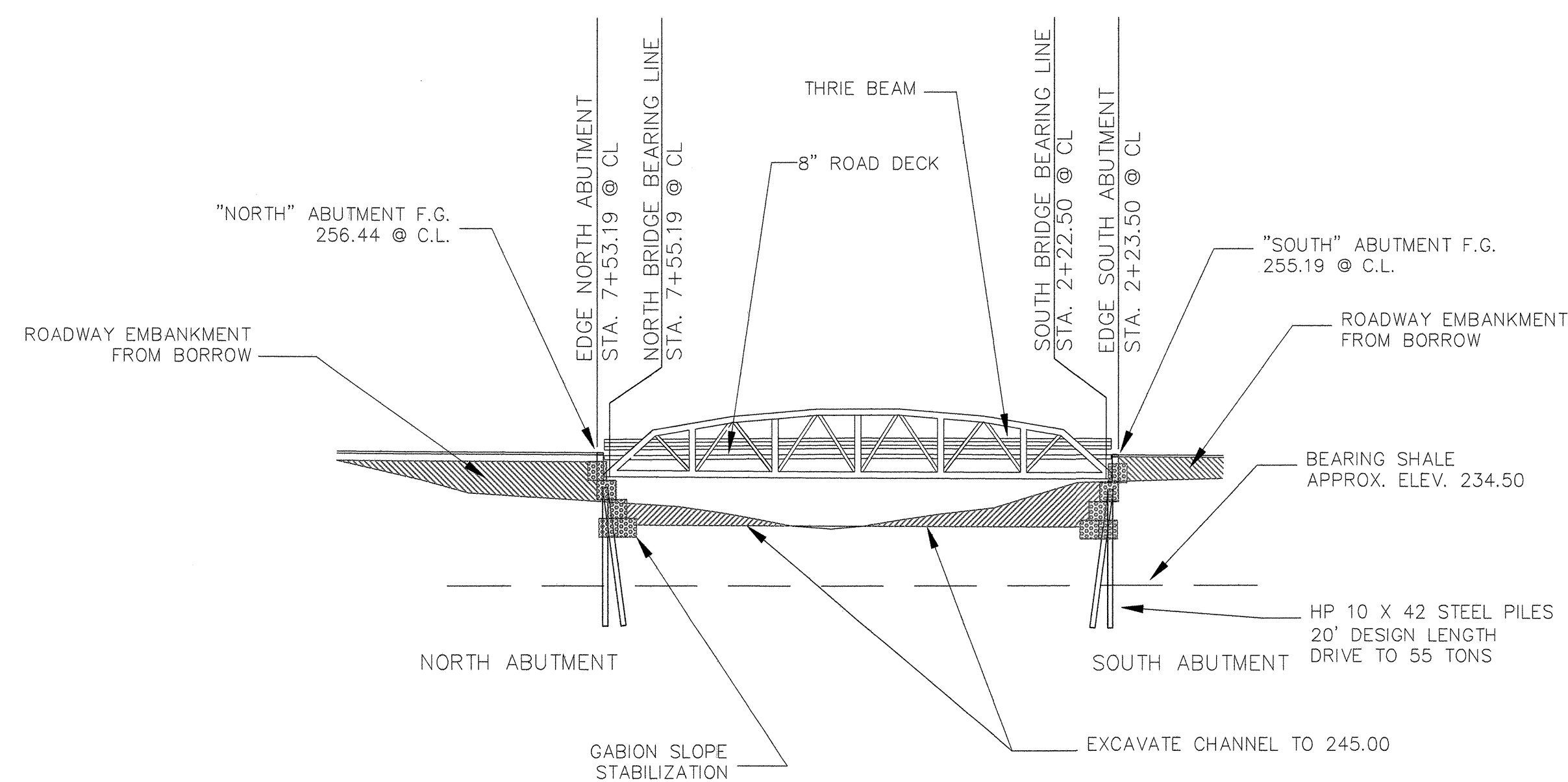
SHEET 8 OF 26





PLAN VIEW

SCALE: HOR. 1" = 20'



ELEVATION @ ROADWAY CENTERLINE

SCALE: HOR. 1" = 20' VERT. 1" = 20'

GENERAL NOTES

BENCH MARK: Contact Engineer

BRIDGE SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition (2002), Div. 1 with all interim specifications in effect.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2003 edition, with applicable supplemental specifications and special provisions.

Reinforcing Steel (A615 or A617, Gr.60)

METHOD OF DESIGN: LOAD FACTOR

LIVE LOADING: HS 20 44

MATERIALS AND STRENGTHS:

Superstructure Steel
Substructure Concrete (Class S)
Bridge Deck
Reinforcing Steel (A615 or A617, Gr.60)

ASTM A709, Grade 50 (A572) or as specified.
f'c = 3,500 psi
f'c = 3,500 Air Entrained
Fy = 60,000 psi

BORING LOGS: A full report with boring logs is available from Engineer. Contact dhopkins@landmarkeng-sur.com

BRIDGE DECK: Roadway deck shall be 8" reinforced concrete over steel subdeck.
All concrete deck surface shall be given a tine finish in accordance with AHTD 802.2 for Class 5 Bridge Roadway Surface Finish.

STEEL PILING: Piling for abutment end supports shall be HP 10 x 42 driven to a minimum bearing capacity of 55 tons per pile. Piles shall be driven with an approved air, steam or diesel hammer. Drive all piles to a minimum penetration of 2' into firm shale substrate. Piles shall be driven after embankment to bottom of abutments is in place.

EXISTING STRUCTURES: The existing str. consists of 42' x 24' concrete deck over steel structure with concrete support walls. Located approximately 50' Left of Station 7+75.

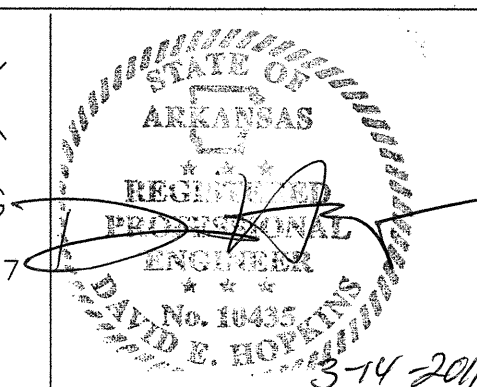
REMOVAL & DISPOSAL OF STRUCTURES: After commissioning of the new Bridge & approaches, the existing Structure shall be Removed In Accordance with Section 202 of the Standard Specifications. Temporary access shall be maintained during construction. See special provisions listed on Sheet 2. The removed bridge shall become the property of the contractor.

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ENGINEERING & SURVEYING

300 SOUTH RODNEY PARHAM, SUITE # 7

LITTLE ROCK, AR 72205

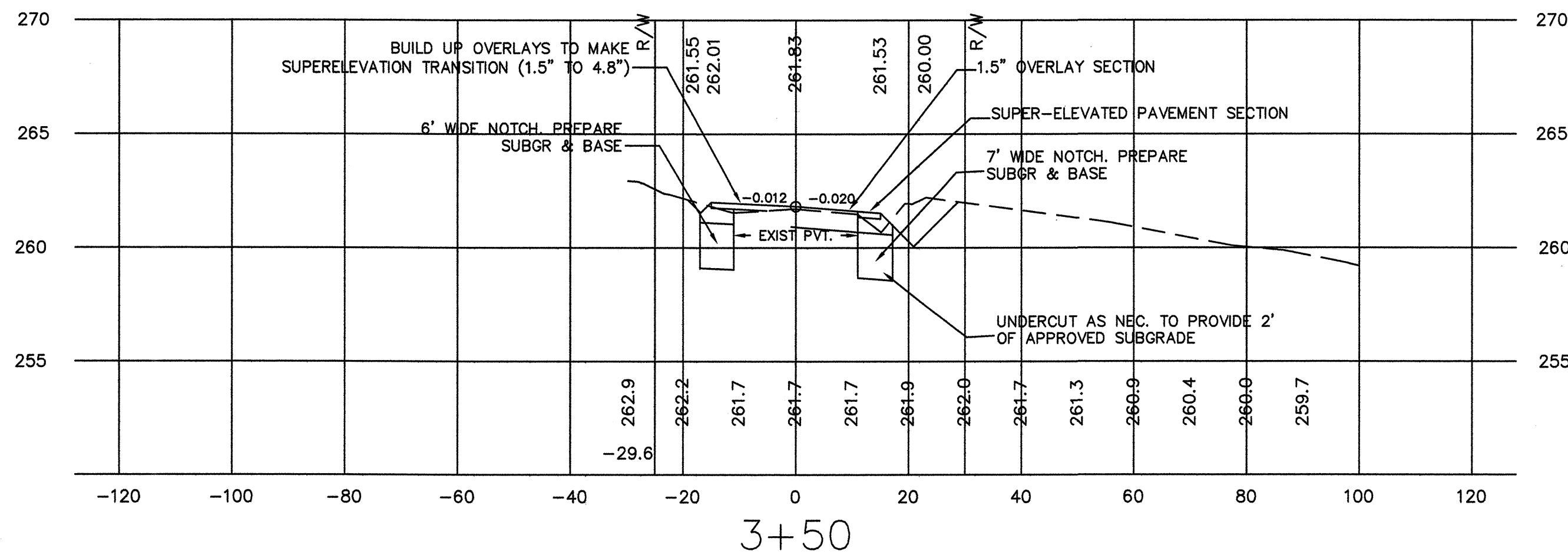


MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD

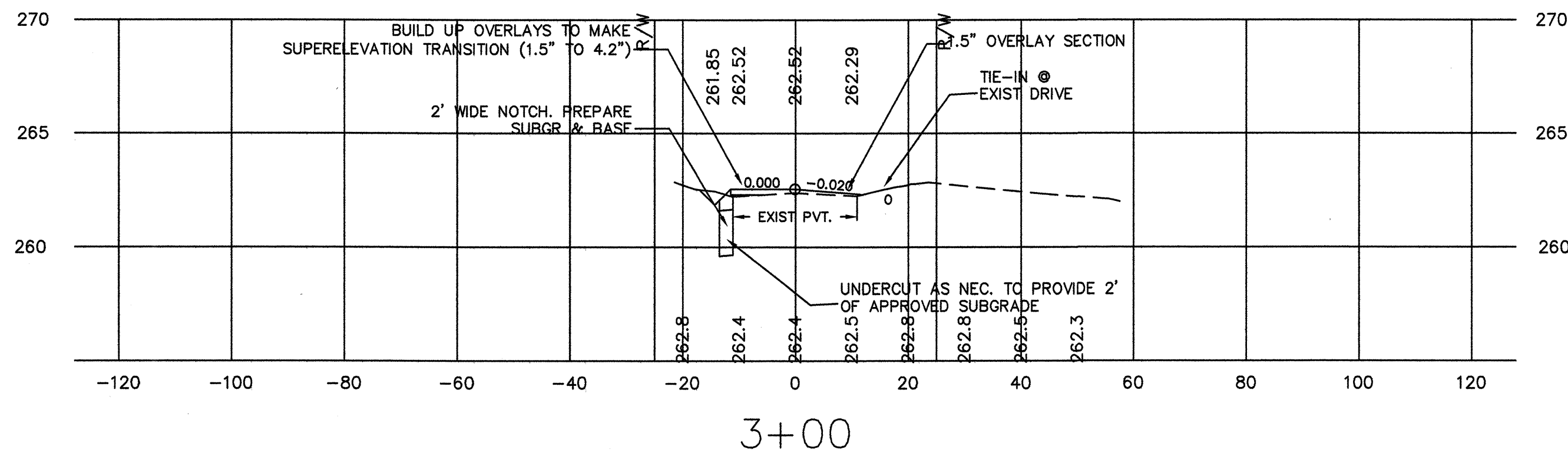
BRIDGE LAYOUT
PULASKI COUNTY, ARKANSAS

MARCH 10, 2011

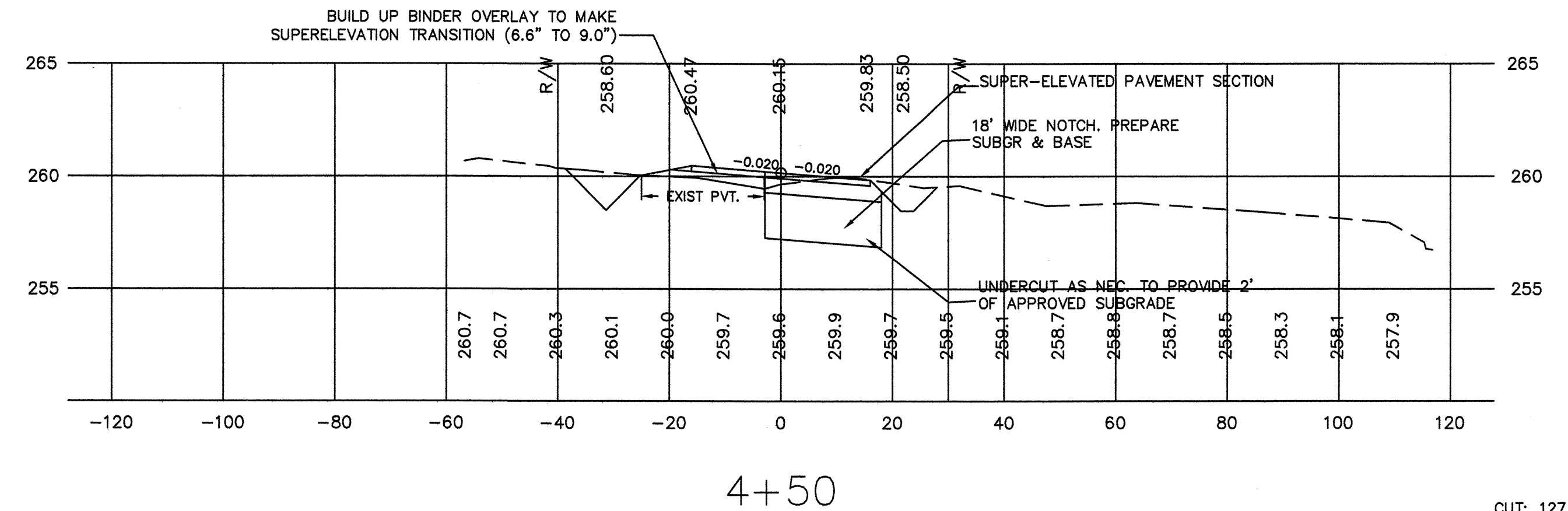
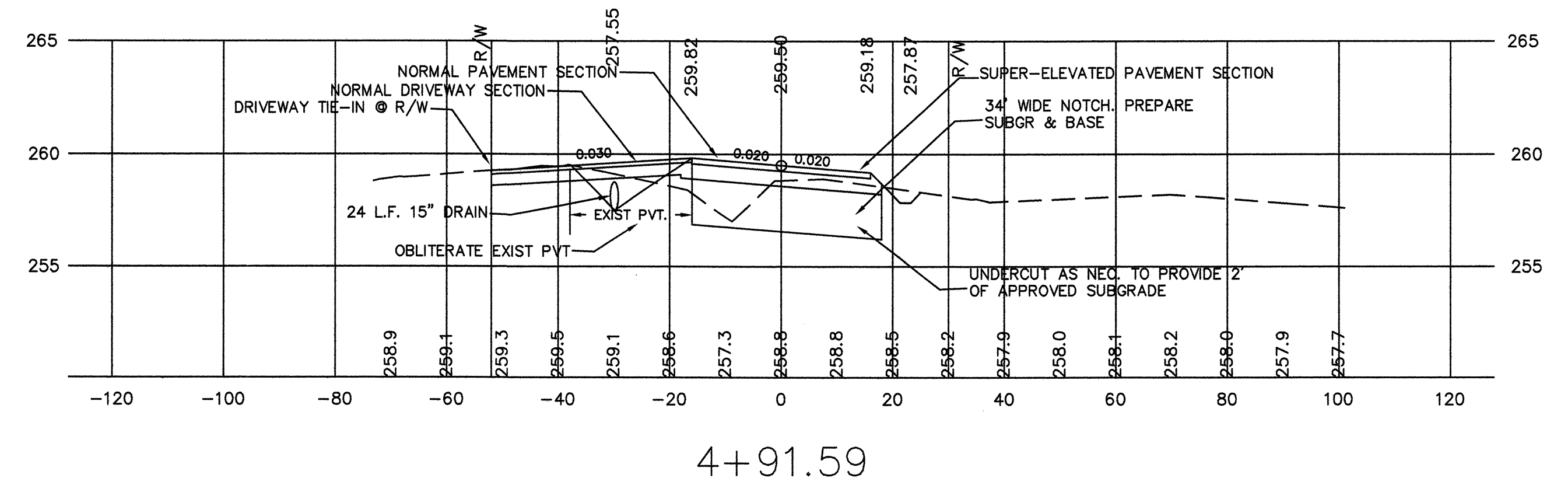
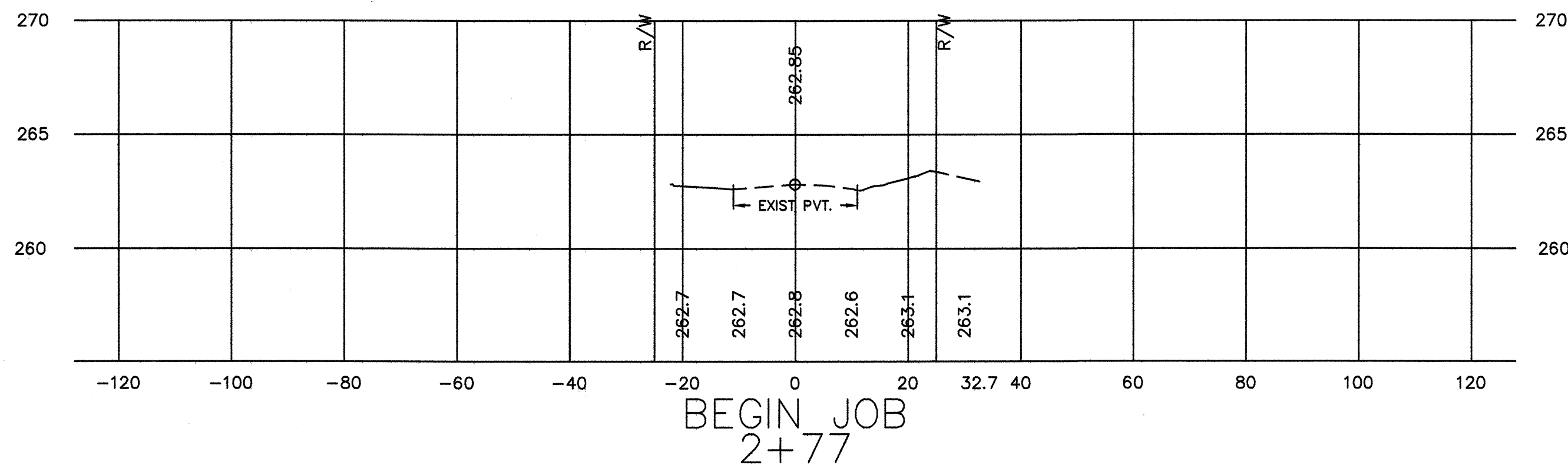
SHEET 11 OF 26



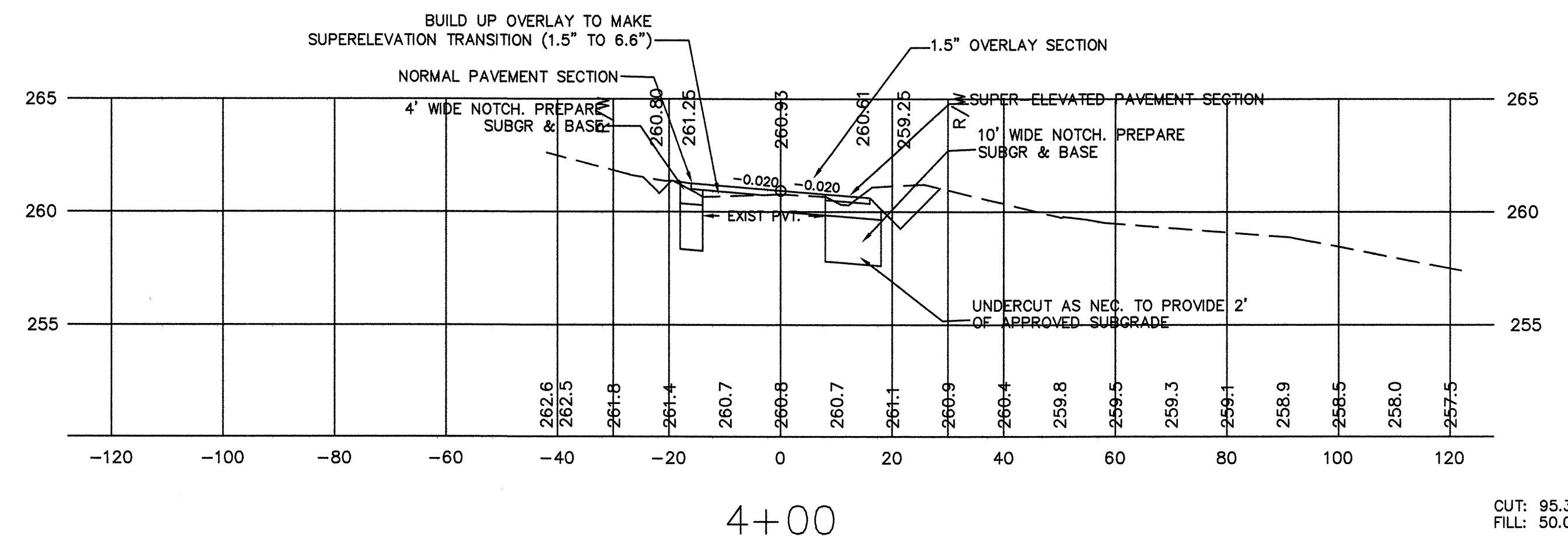
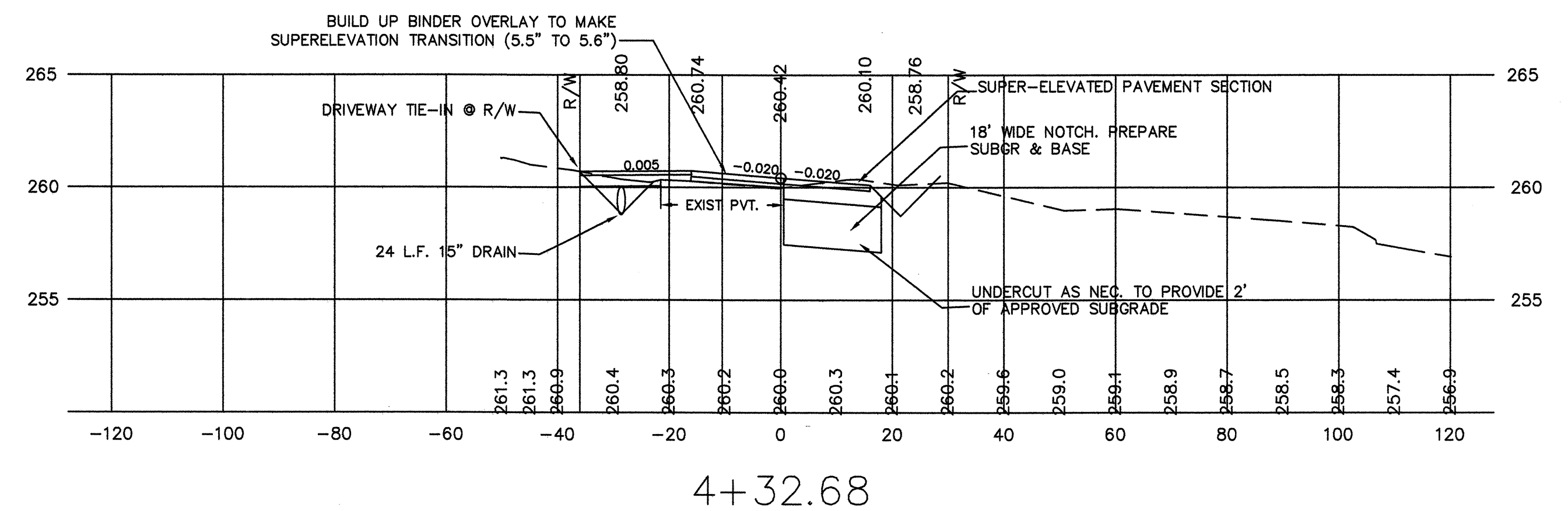
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FILL: 28.70 C.Y.



CUT: 3.83 C.Y.
FILL: 2.13 C.Y.



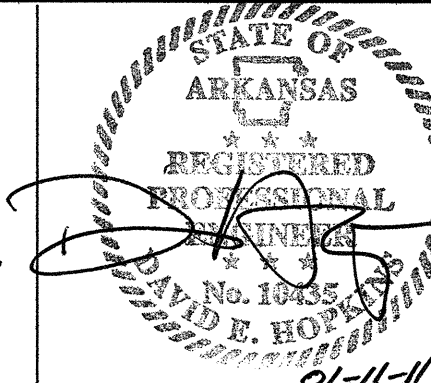
CUT: 127.78 C.Y.
FILL: 65.74 C.Y.



CUT: 95.37 C.Y.
FILL: 50.00 C.Y.

LANDMARK

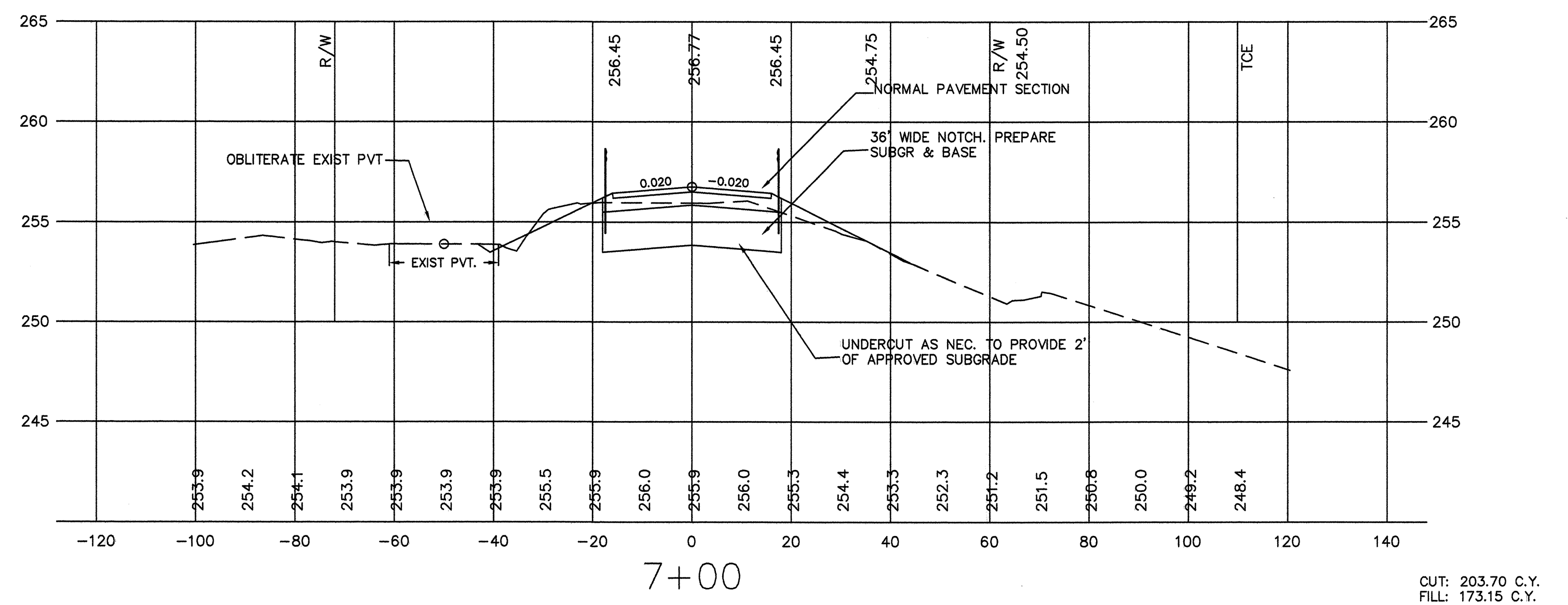
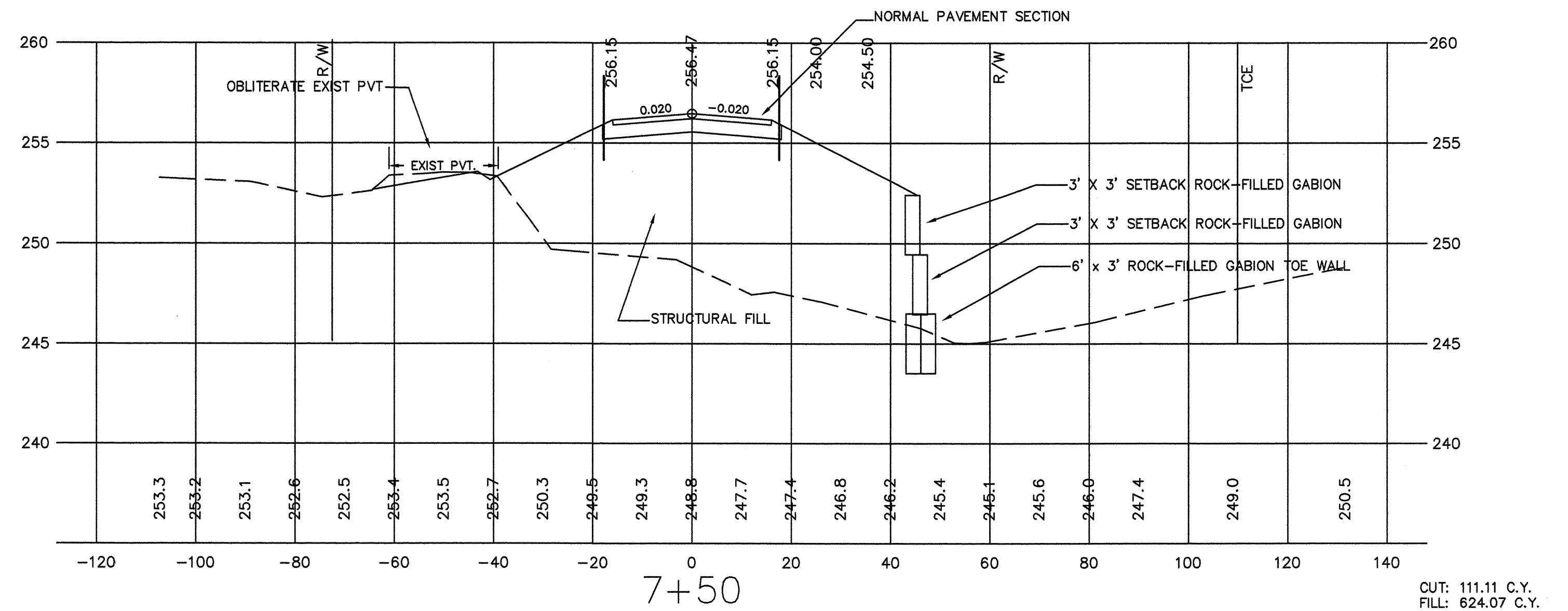
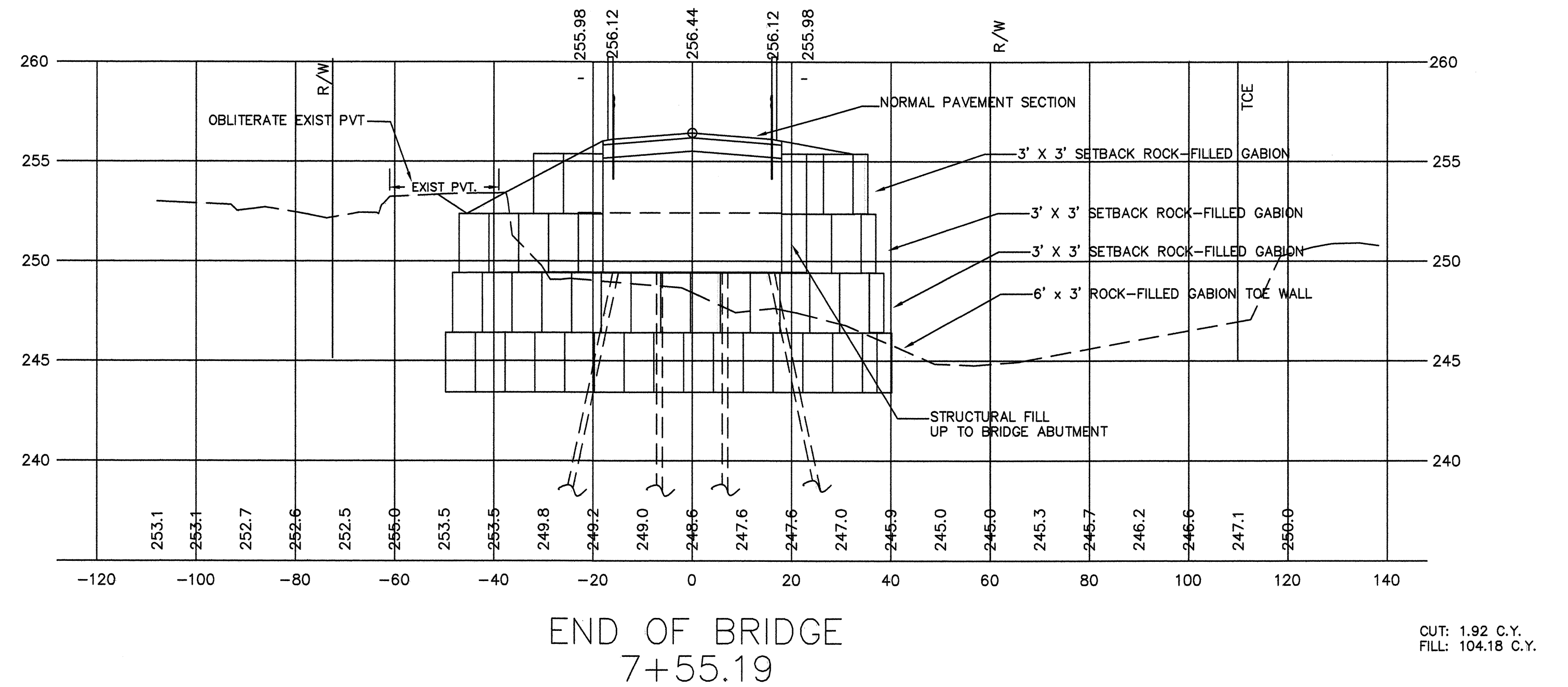
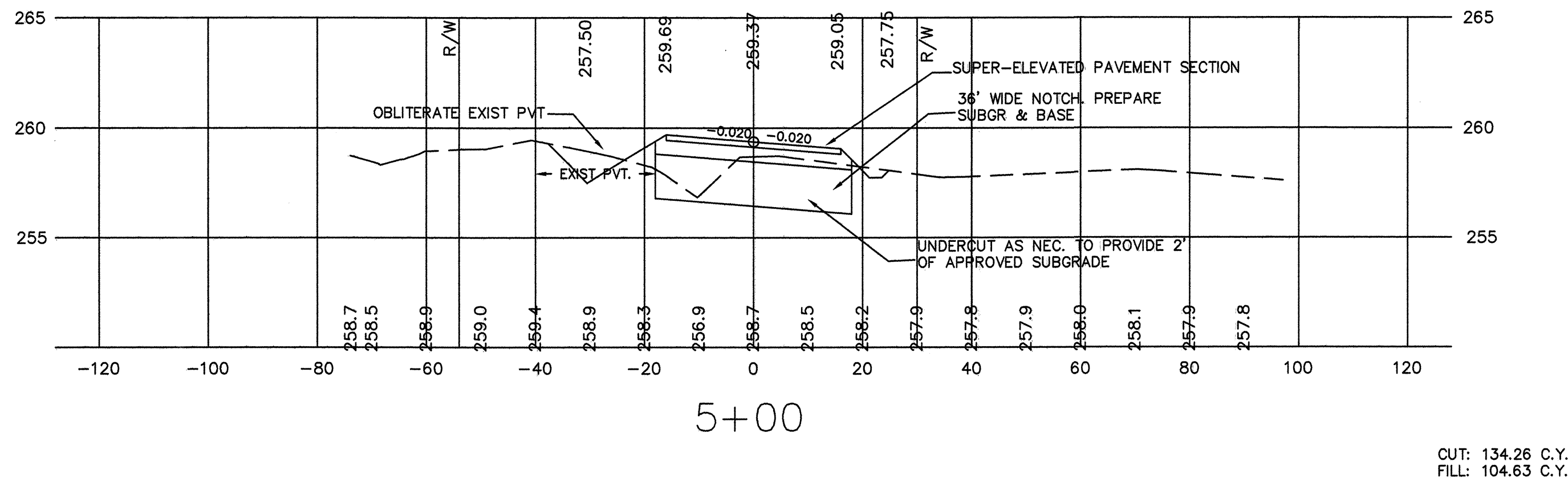
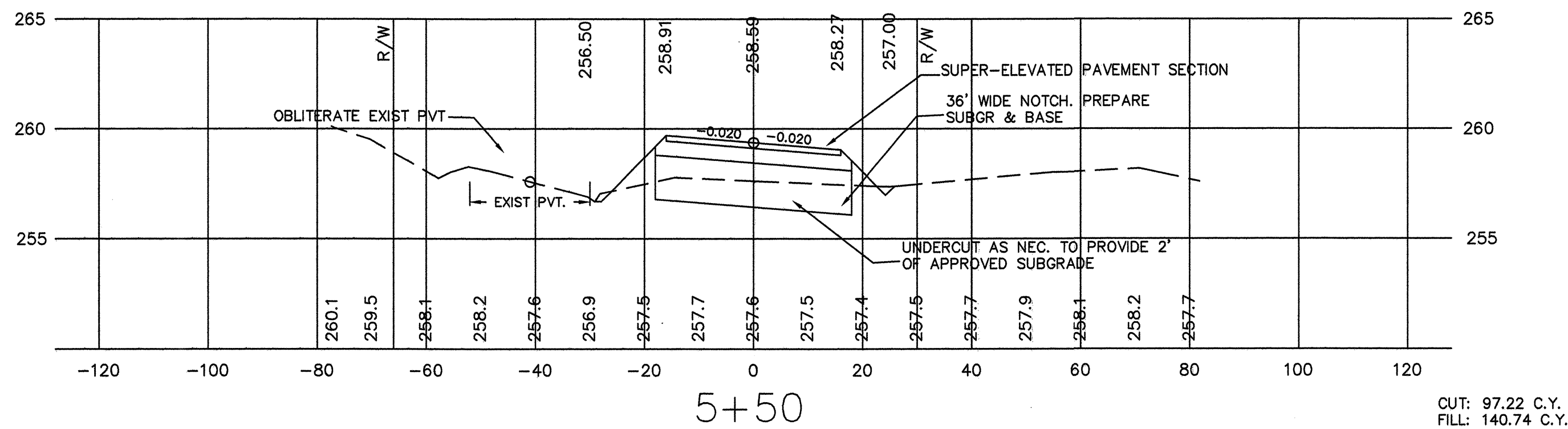
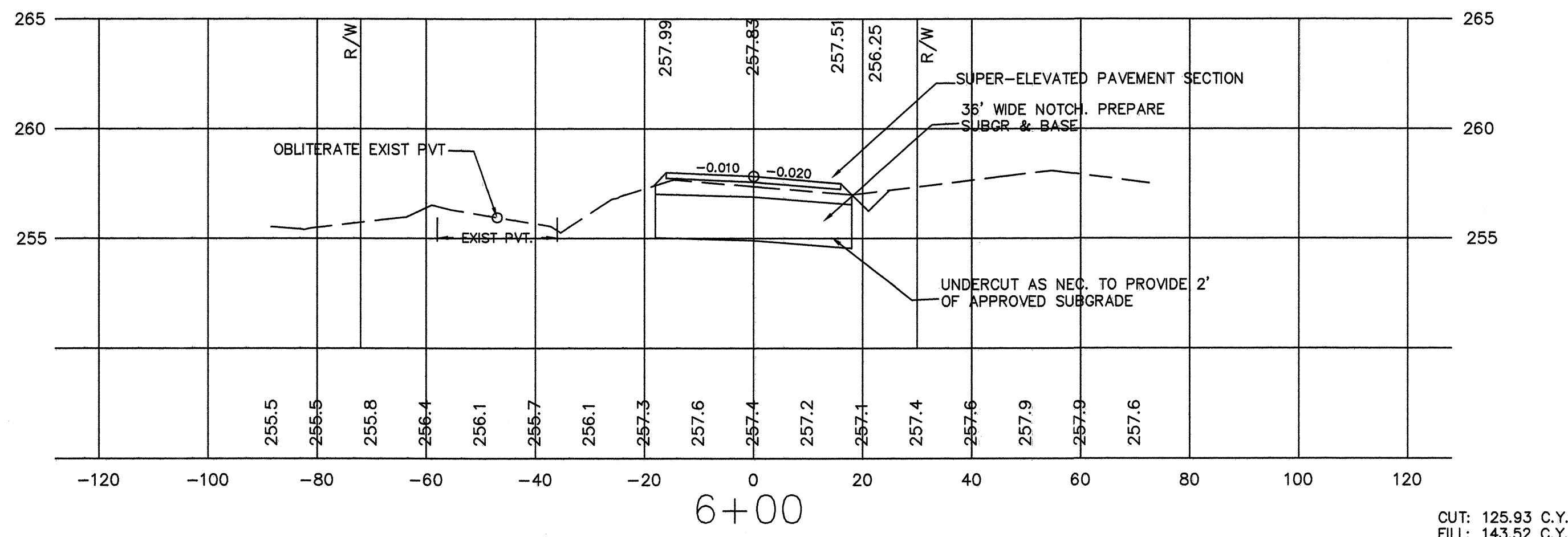
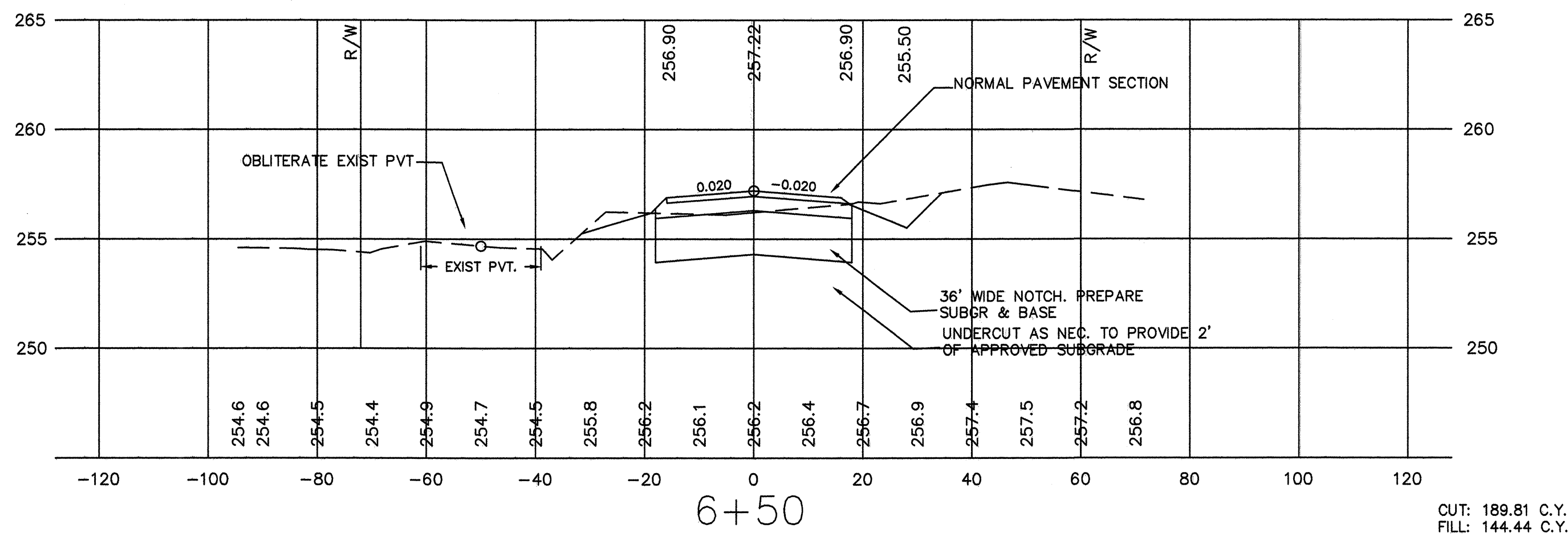
ENGINEERING & SURVEYING
300 SOUTH RODNEY PARHAM, SUITE # 7
LITTLE ROCK, AR 72205



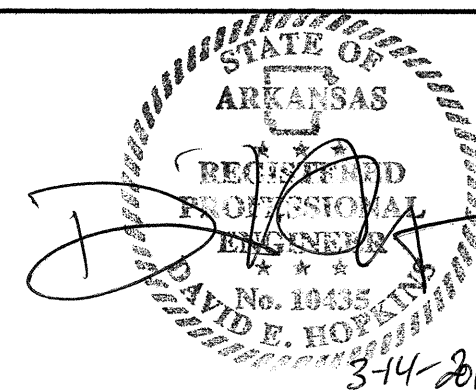
MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
CROSS SECTION - 1

NOVEMBER 8, 2010

SHEET 12 OF 26



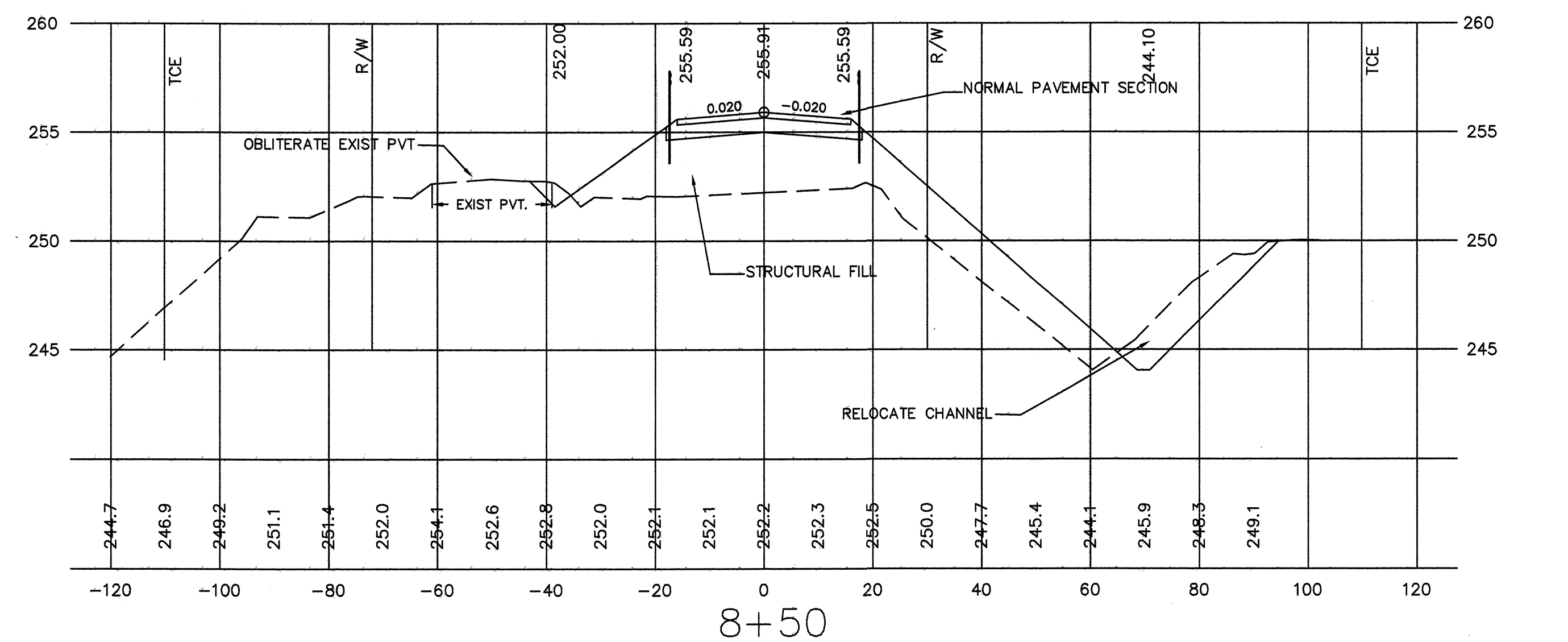
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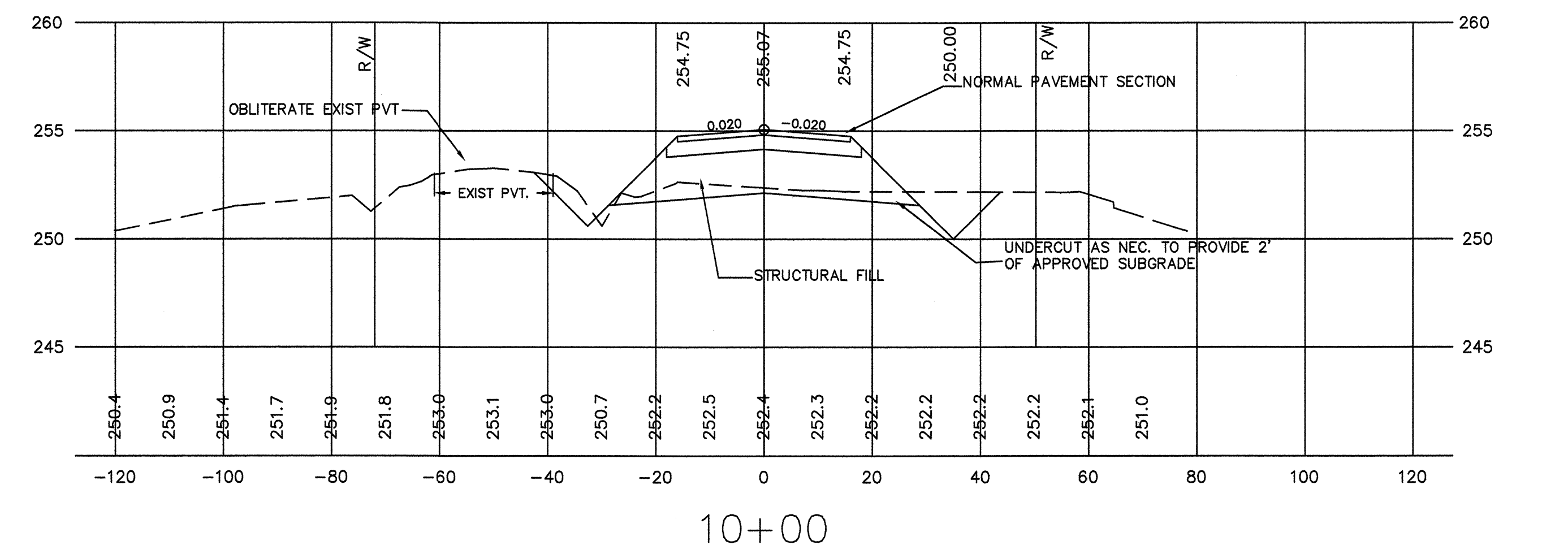
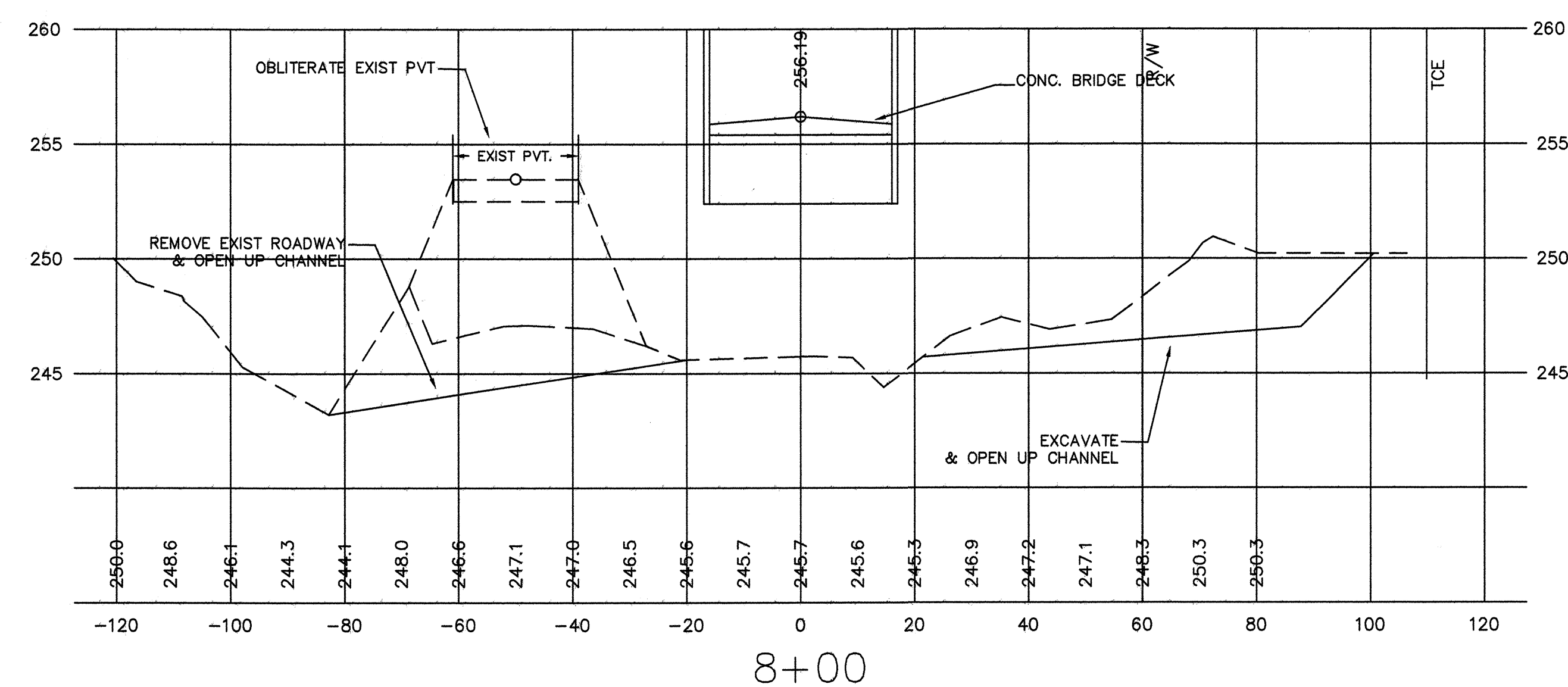
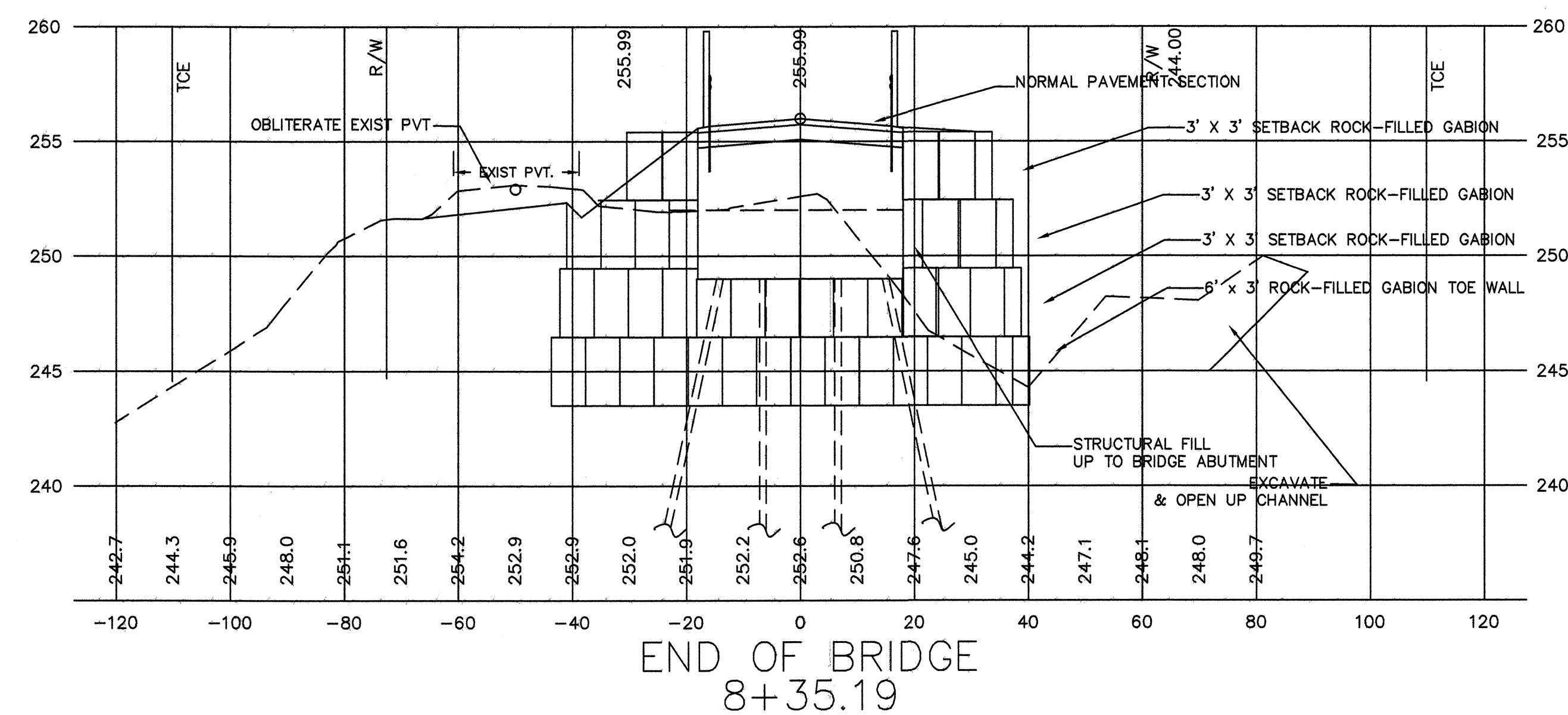
LANDMARK
ENGINEERING & SURVEYING
300 SOUTH RODNEY PARHAM, SUITE # 7
PH: (501)224-1000
FAX: (501)227-7200

MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
CROSS SECTION - 2
MARCH 10, 2011

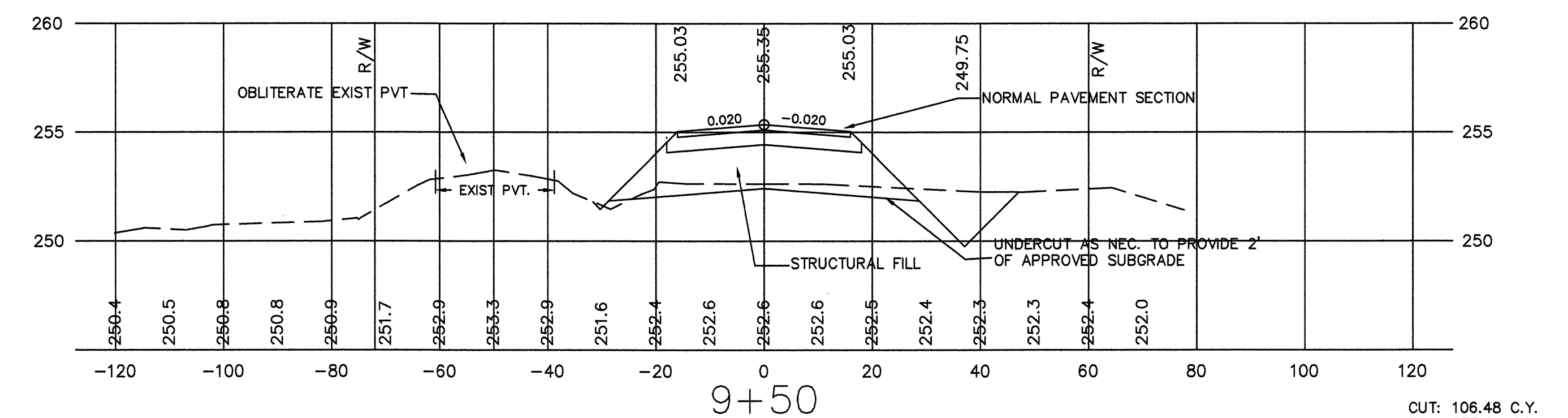
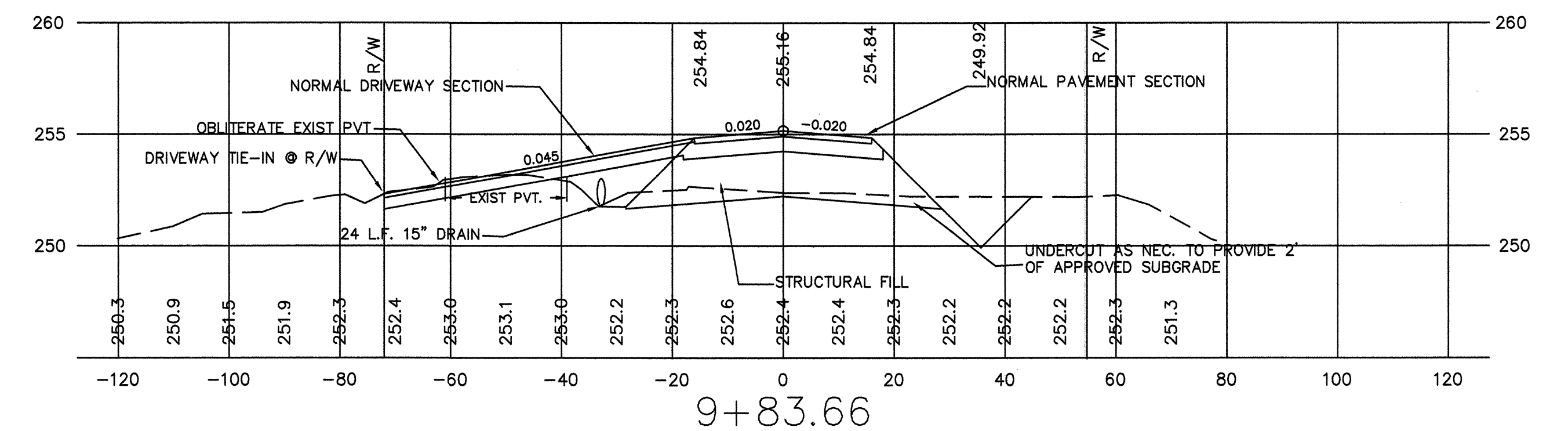
SHEET 13 OF 26



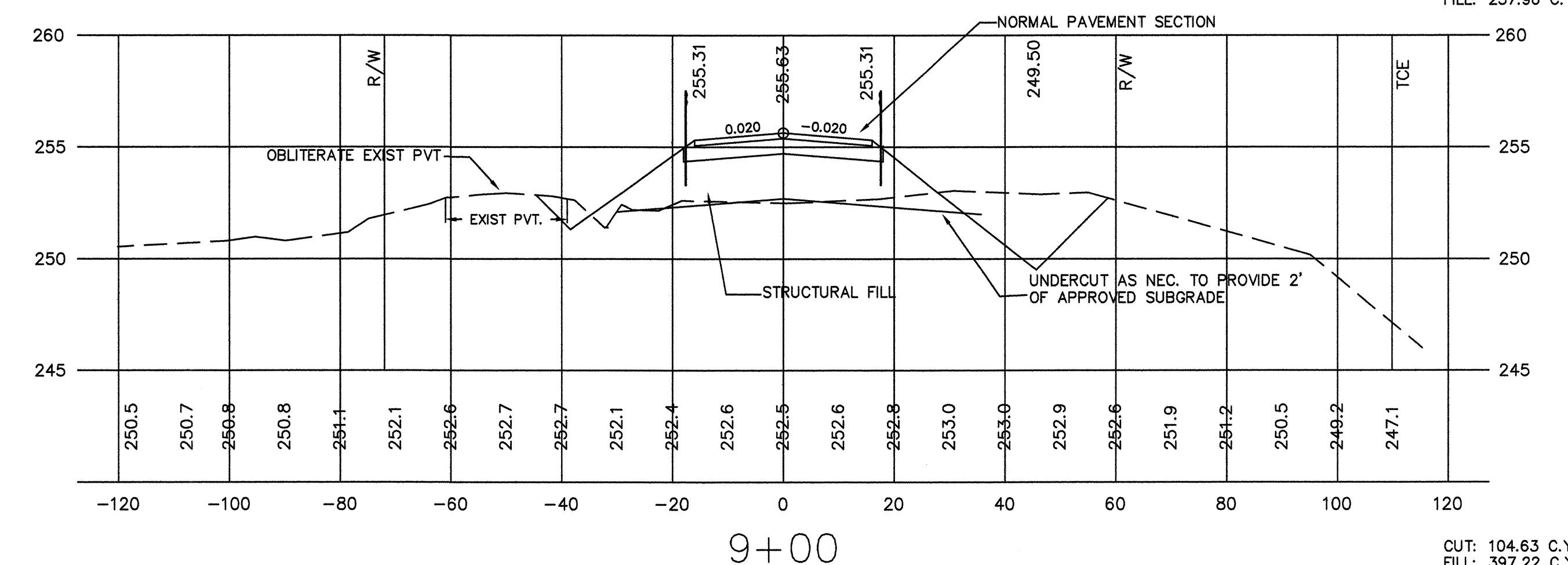
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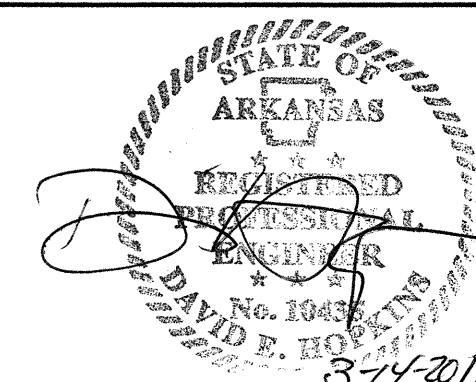
CUT: 93.52 C.Y.
FILL: 186.11 C.Y.



CUT: 106.48 C.Y.
FILL: 237.96 C.Y.



CUT: 104.63 C.Y.
FILL: 397.22 C.Y.



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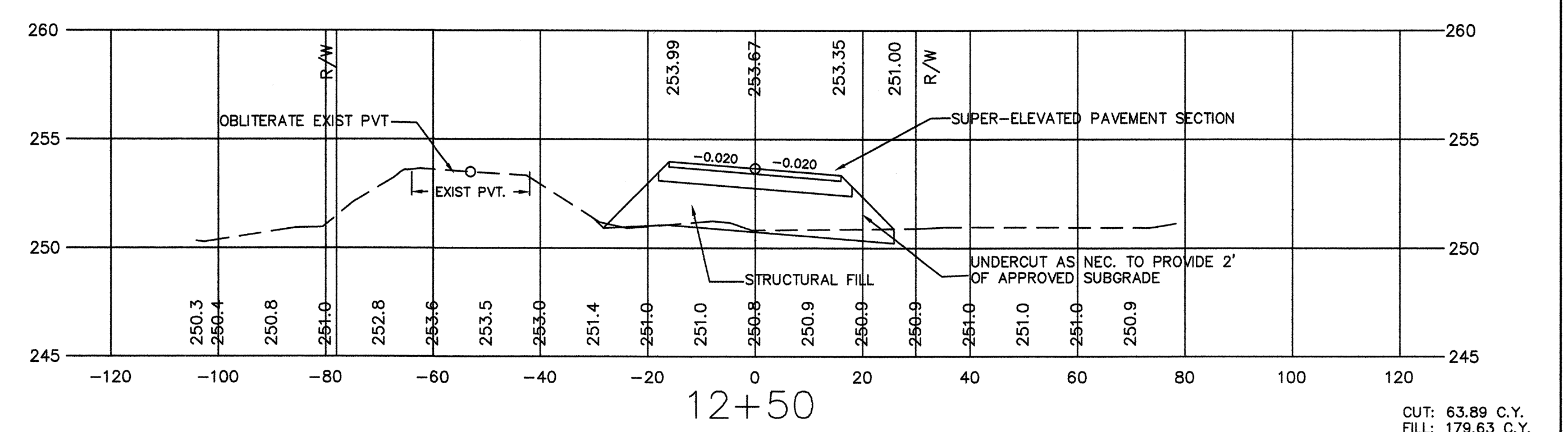
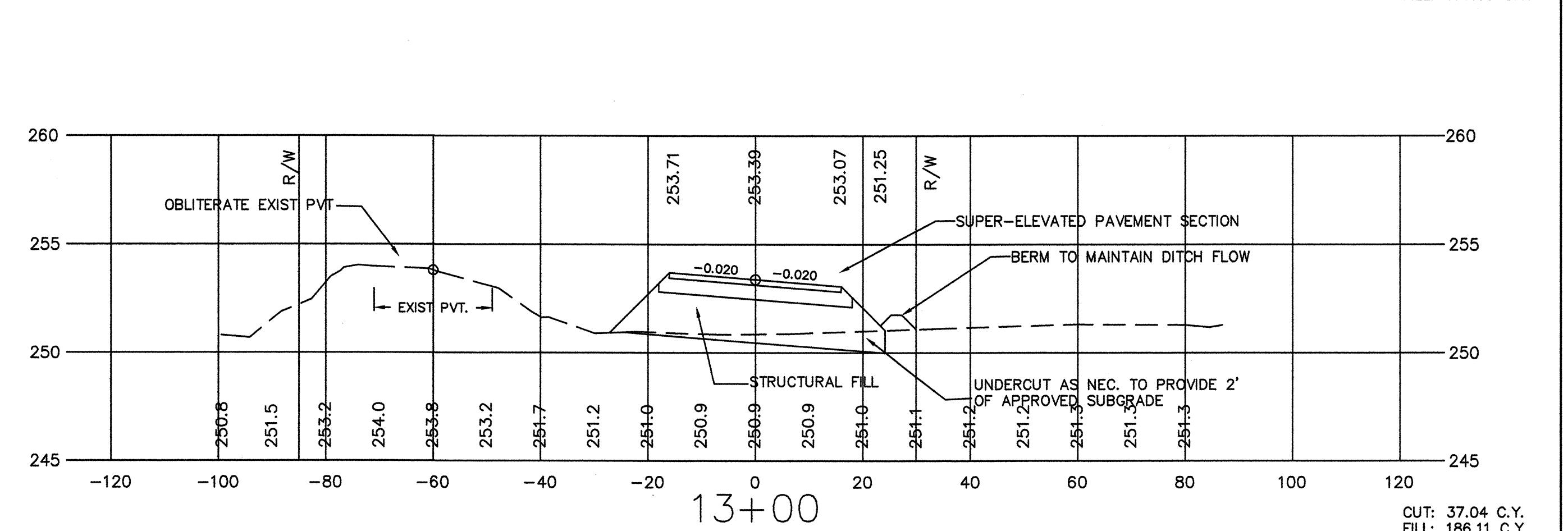
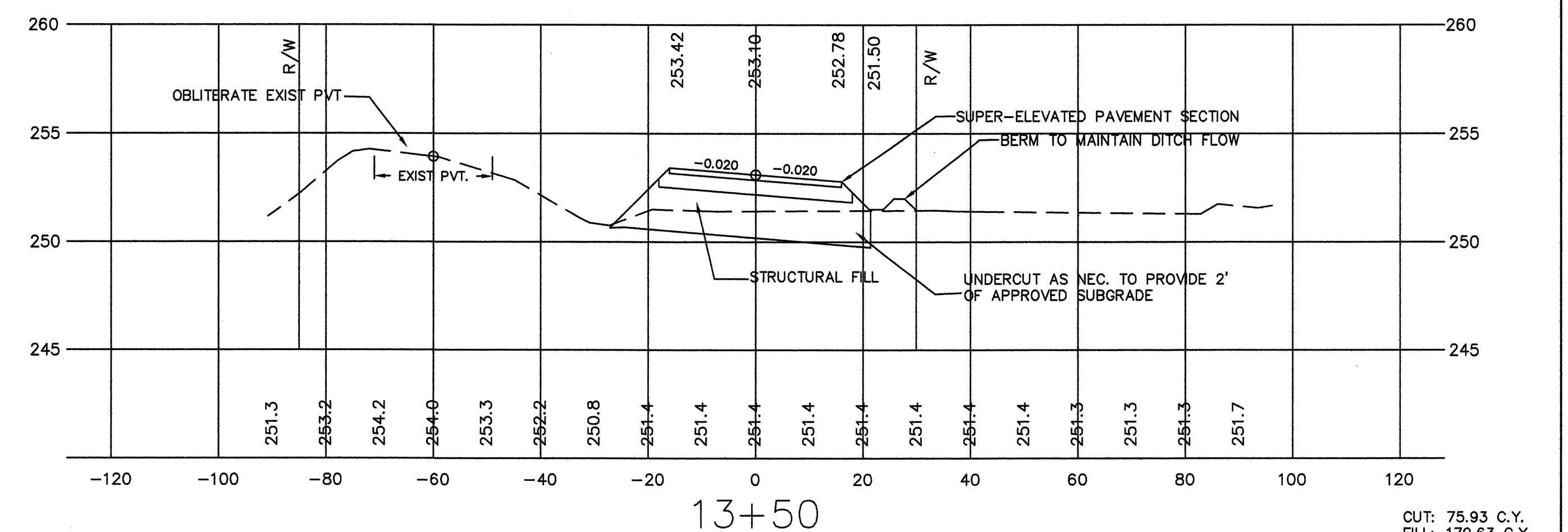
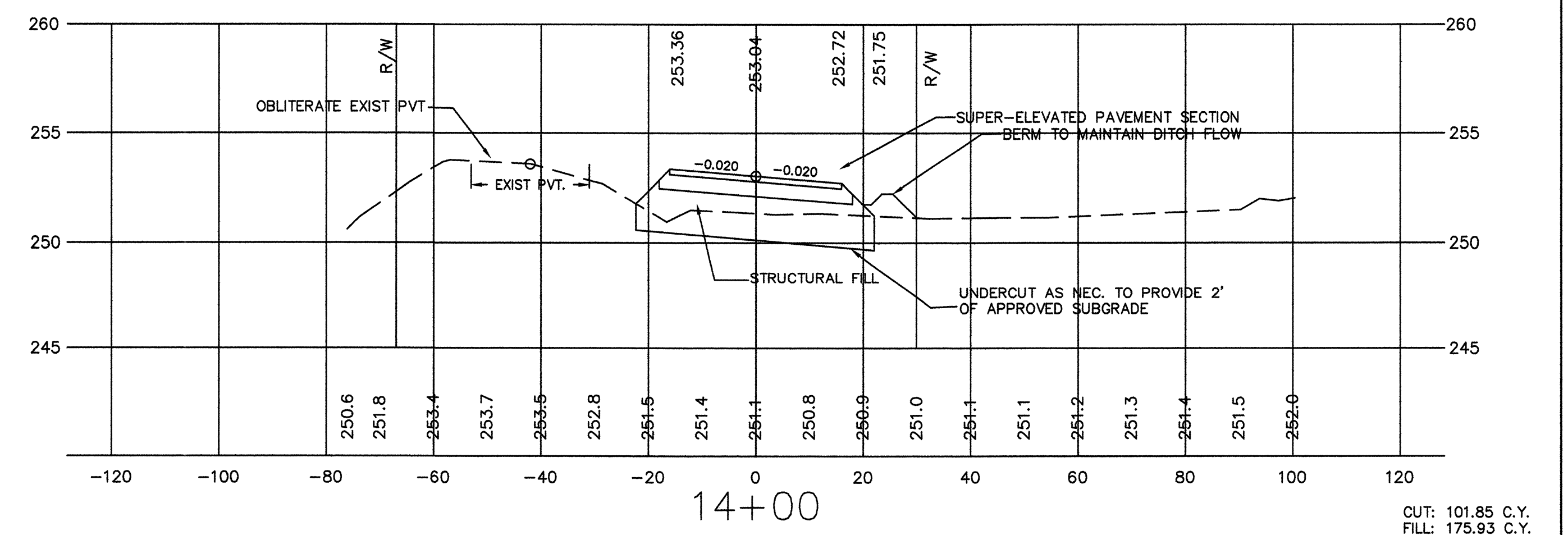
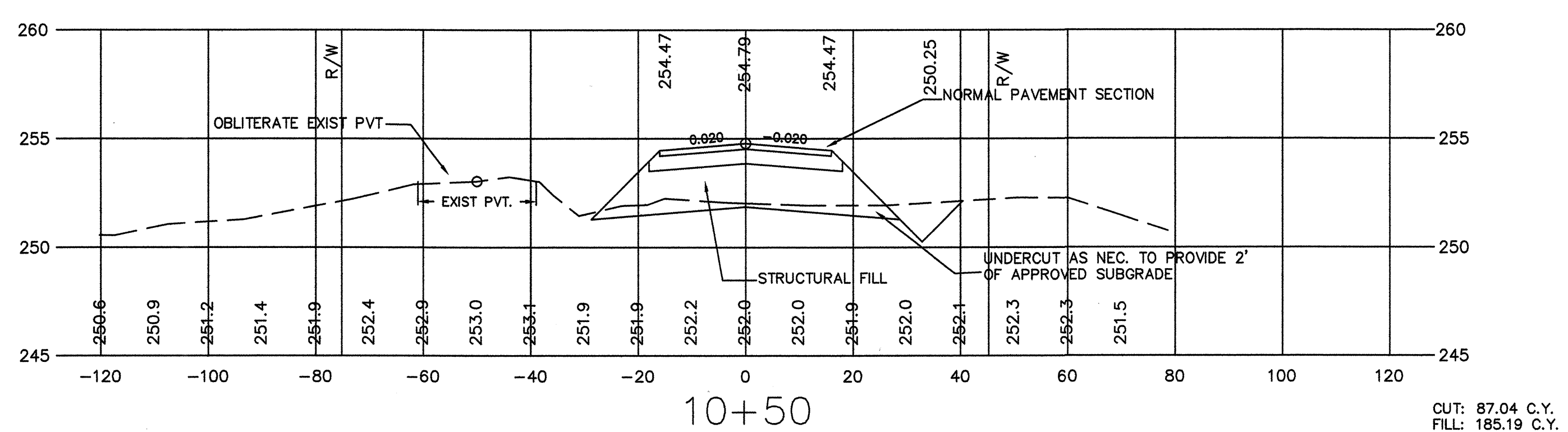
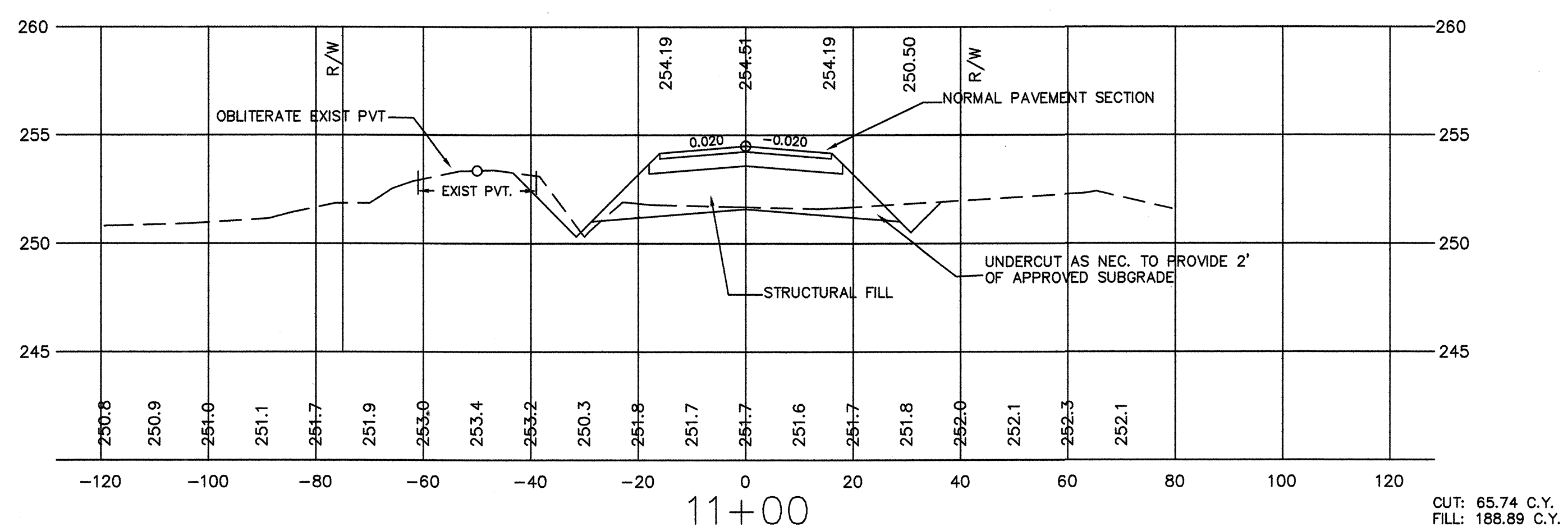
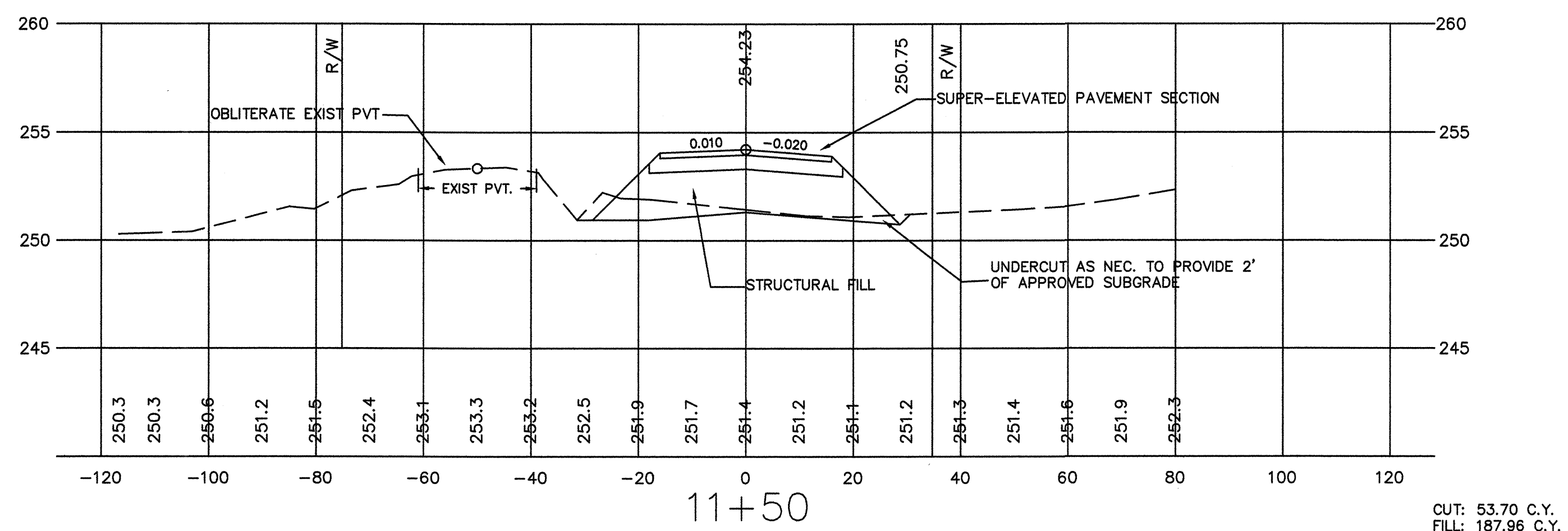
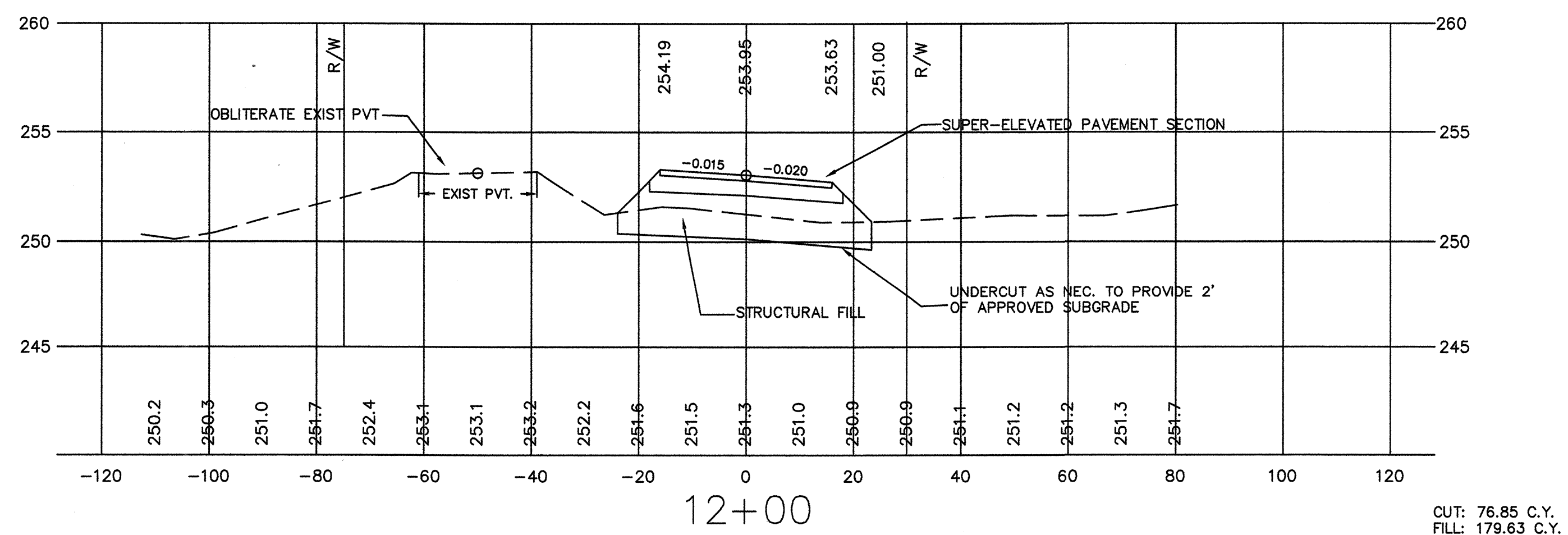
FAX: (501) 227-7200

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| MILES CREEK BRIDGE REPLACEMENT KELLOGG ACRES ROAD |
| PULASKI COUNTY, ARKANSAS CROSS SECTIONS - 3 |

MARCH 10, 2011

SHEET 14 OF 26



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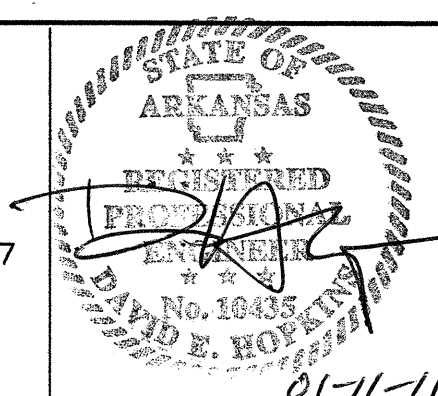
LANDMARK

ENGINEERING & SURVEYING

300 SOUTH RODNEY PARHAM, SUITE # 7

PH: (501)224-1000

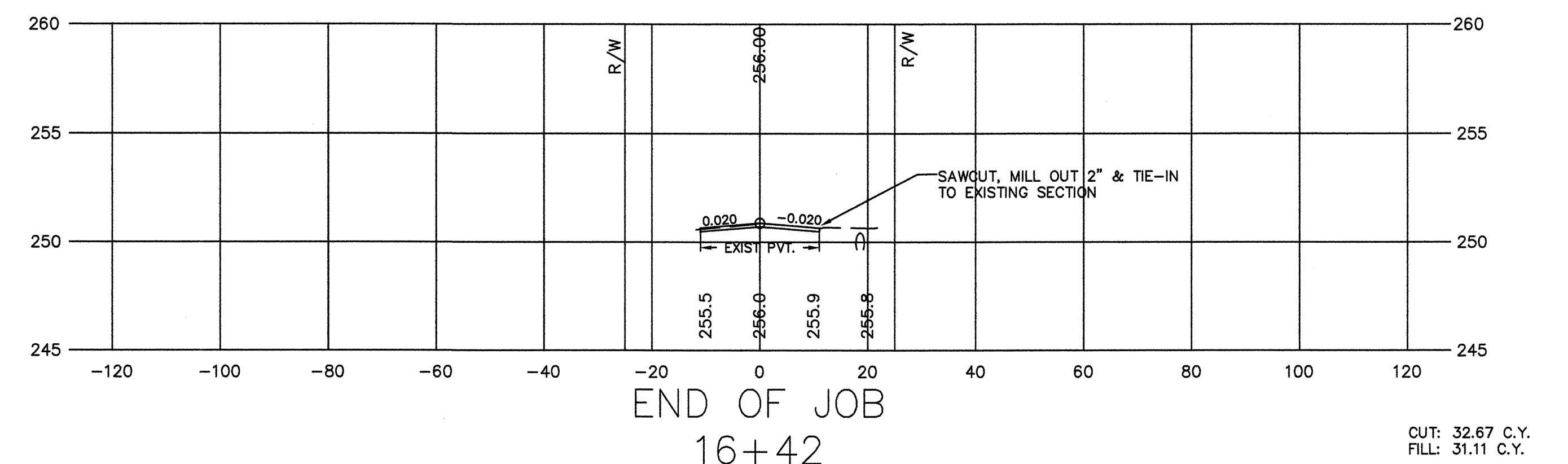
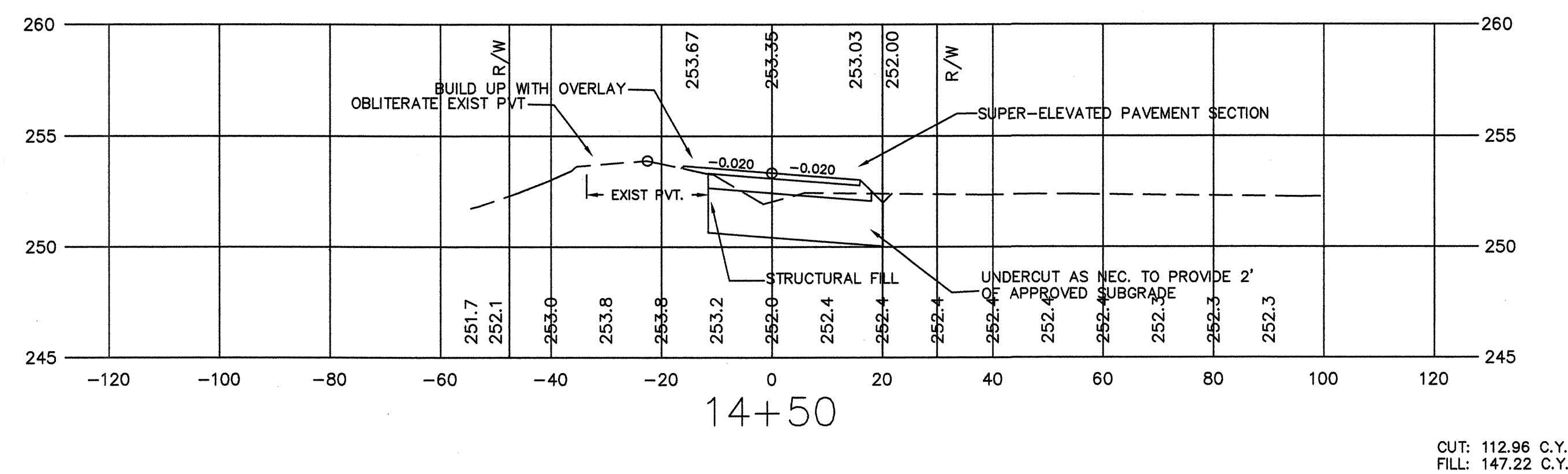
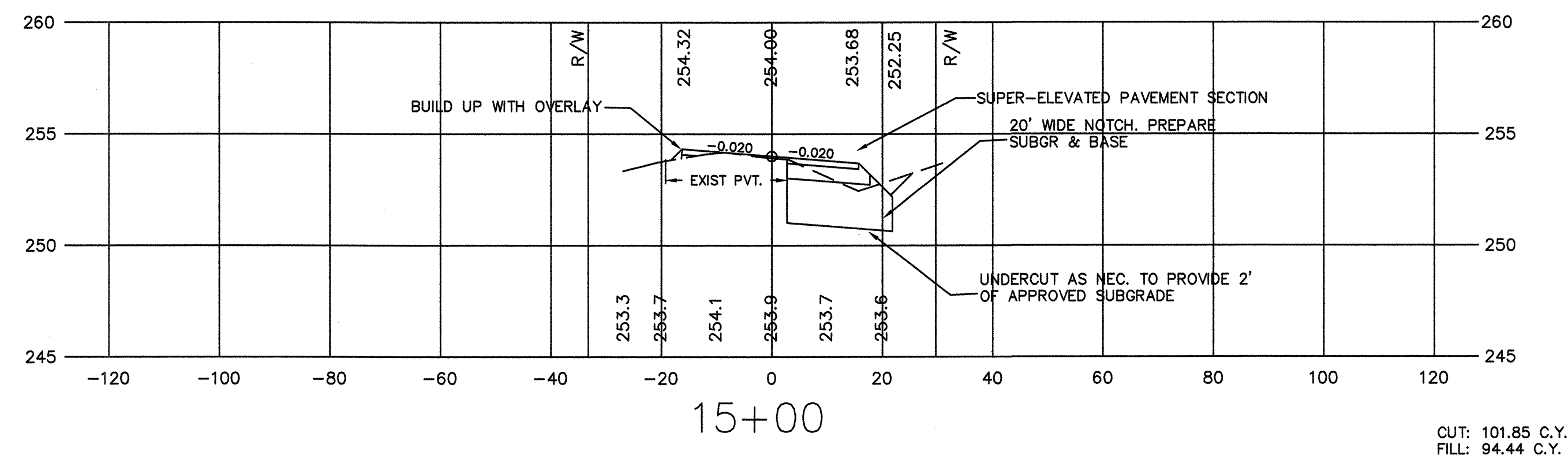
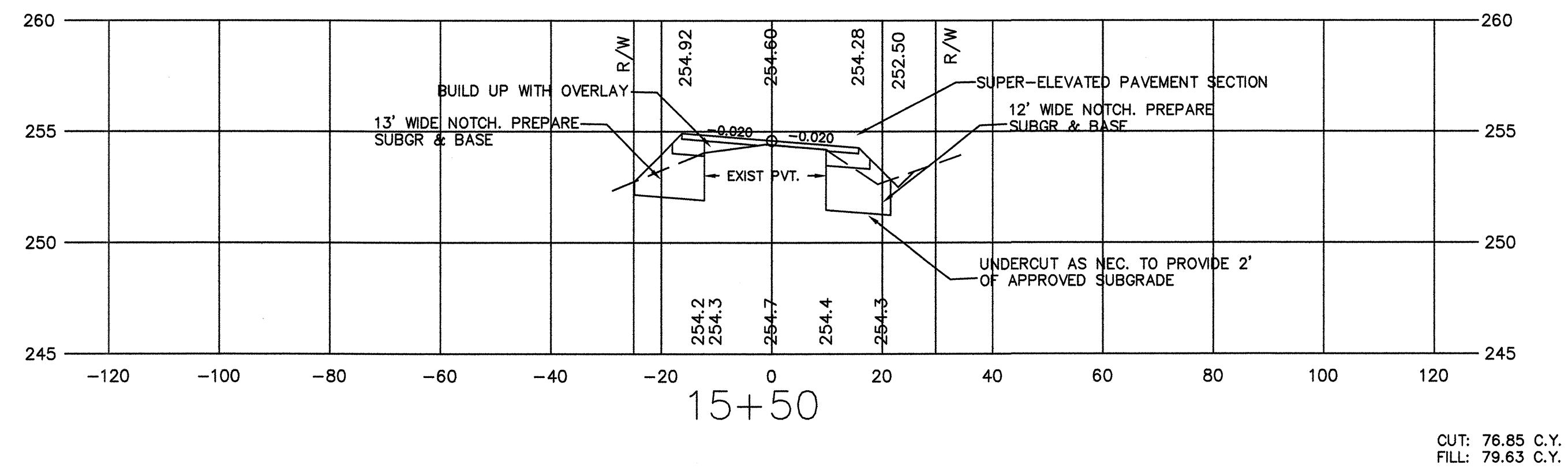
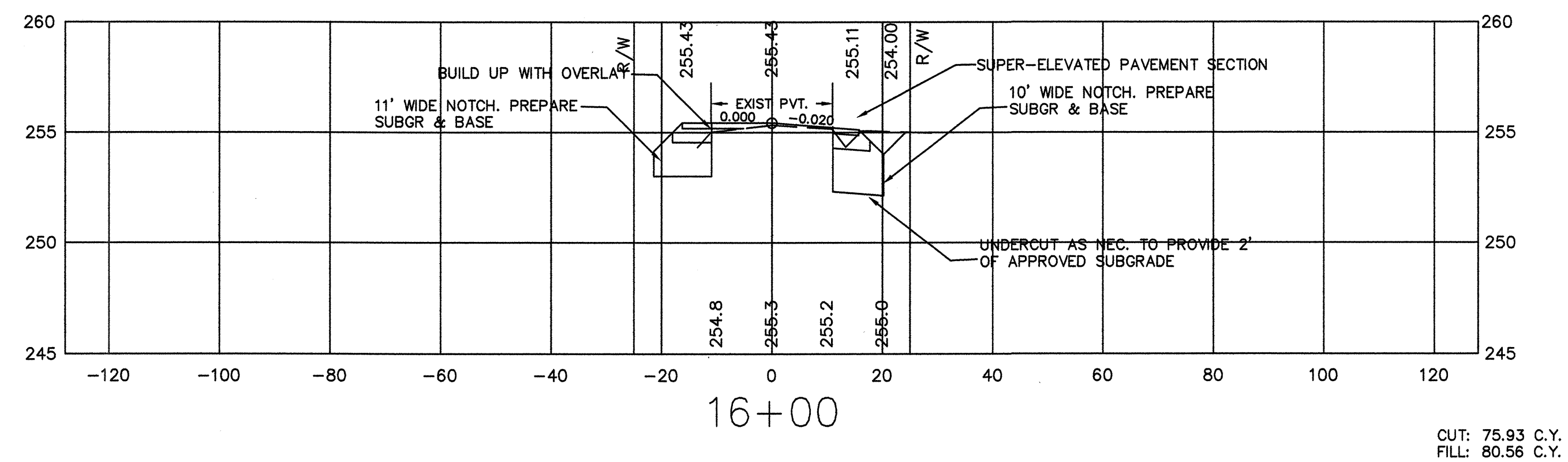
FAX: (501)227-7200



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| MILES CREEK BRIDGE REPLACEMENT KELLOGG ACRES ROAD |
| PULASKI COUNTY, ARKANSAS CROSS SECTIONS - 4 |

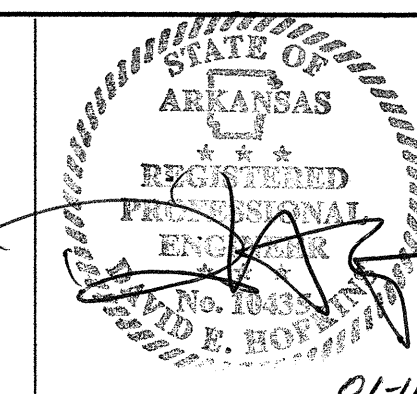
NOVEMBER 8, 2010

SHEET 15 OF 26

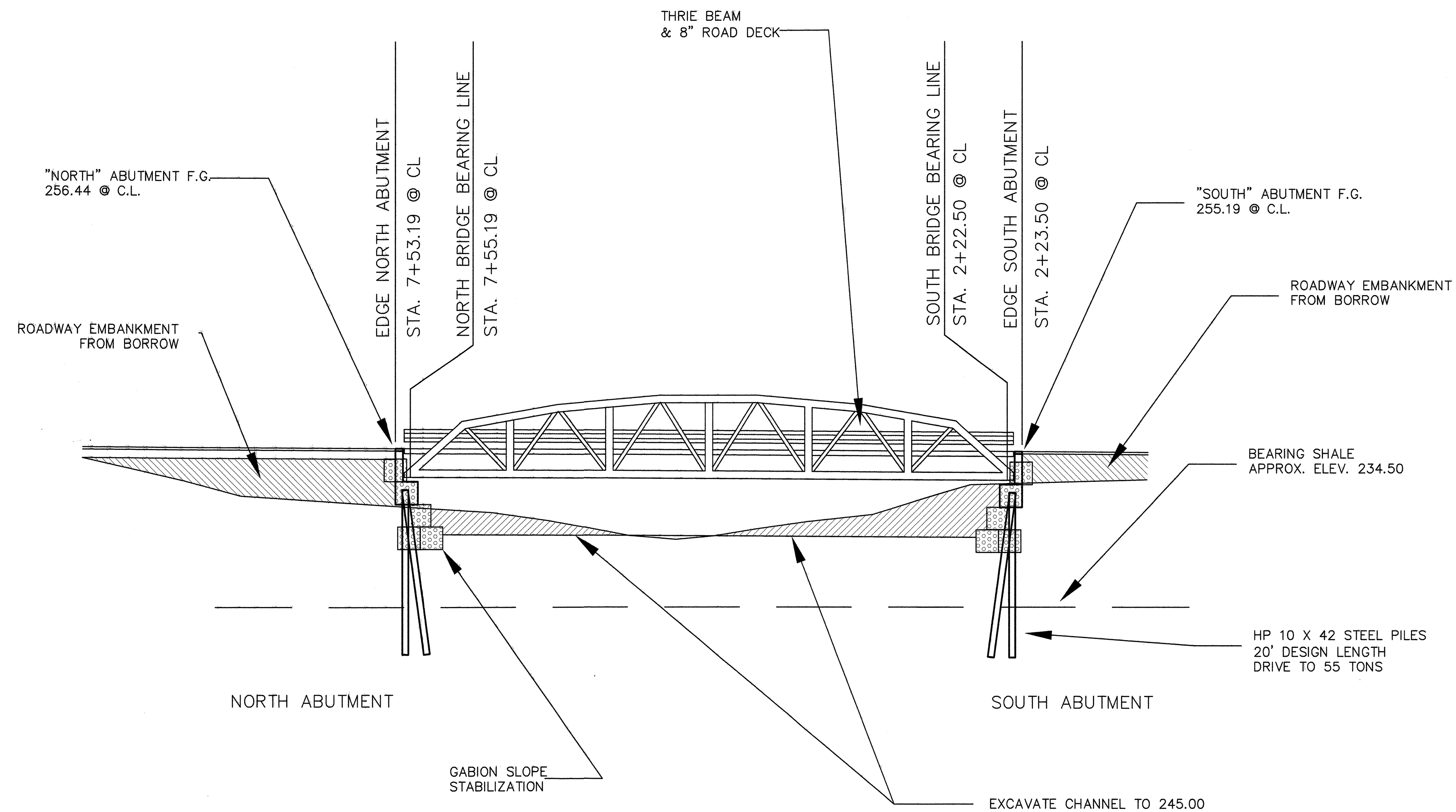


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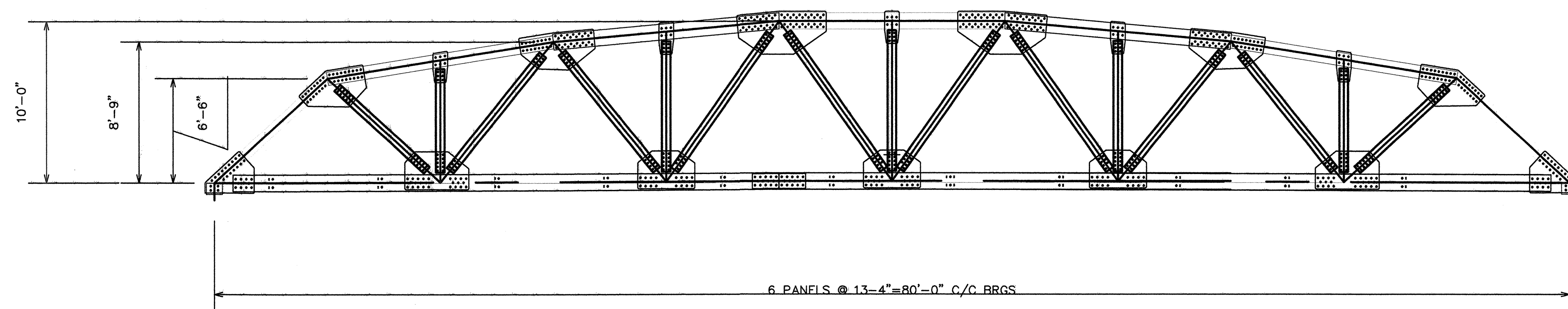
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FAX: (501)227-7200



MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
CROSS SECTIONS - 5
NOVEMBER 8, 2010
SHEET 16 OF 26

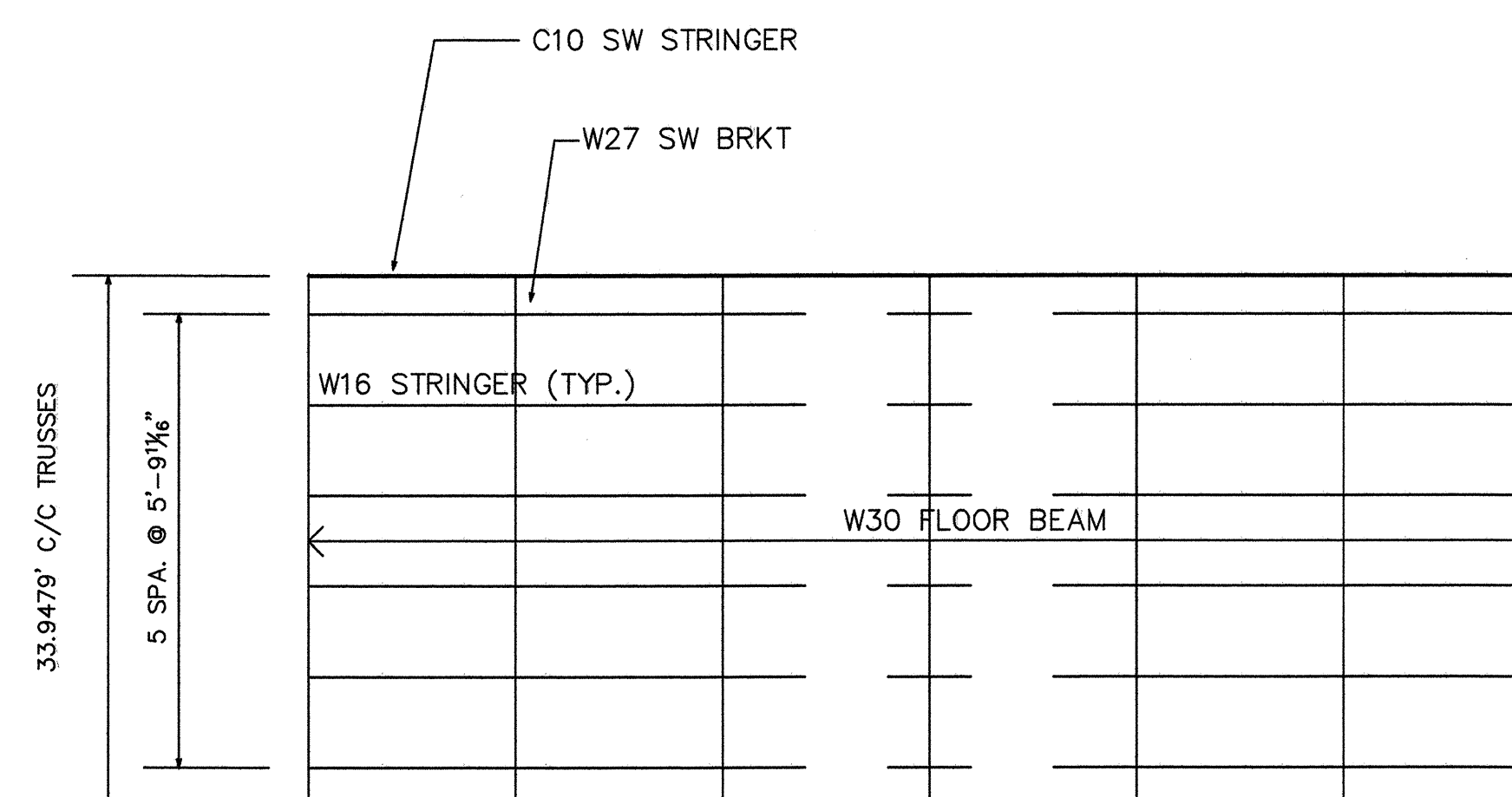


ELEVATION @ ROADWAY CENTERLINE
TRUSS LIFTING WT= 16.75K
APPROX SCALE: 1"=10'

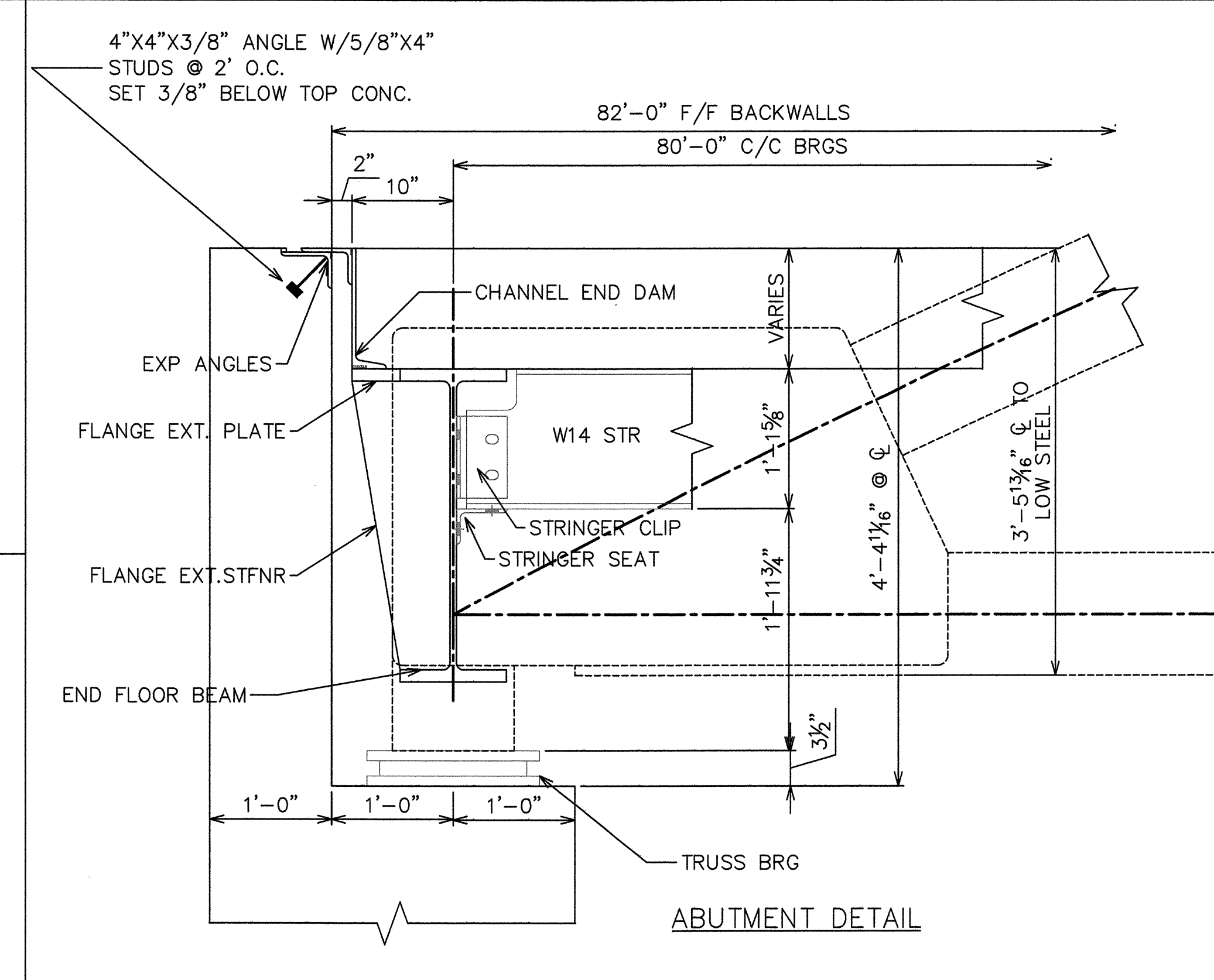
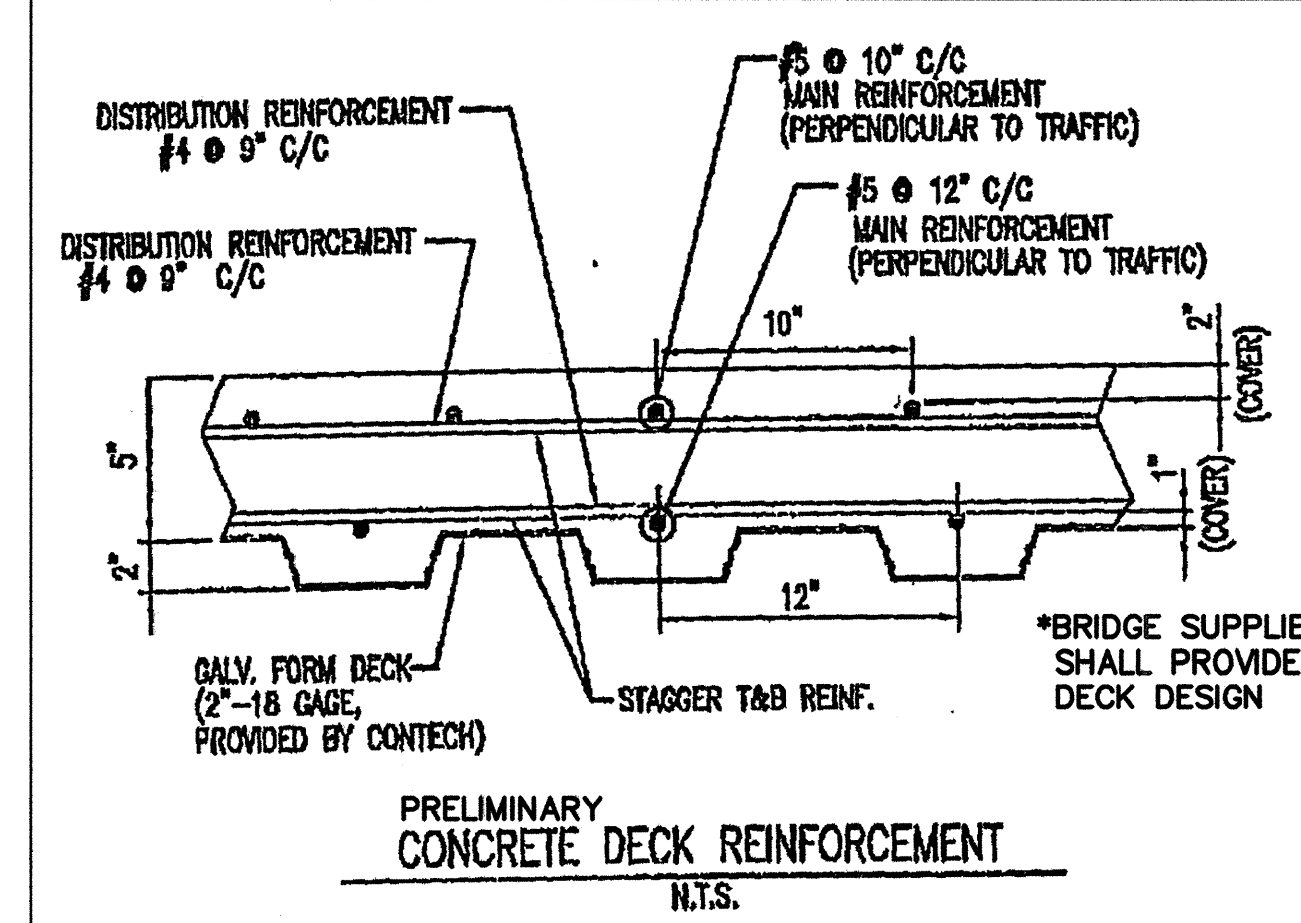
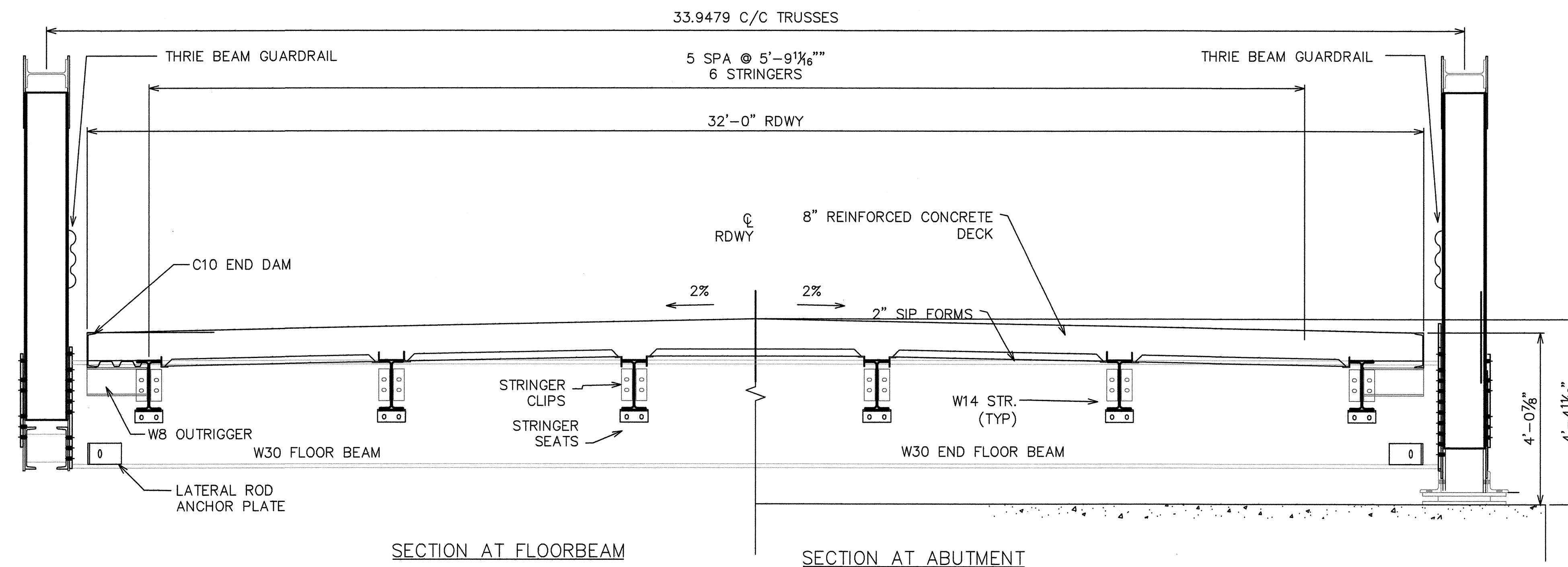


TRUSS DETAIL
TRUSS LIFTING WT= 16.75K
APPROX SCALE: 1"=5'

| PROJECT DESIGN CRITERIA | |
|--|---------|
| SPAN - 80'-0" C/C BEARINGS | |
| DECK WIDTH - 32'-0" | |
| SKEW - N/A | |
| DESIGN LIVE LOAD - HS20 | |
| DESIGN LOADS: | |
| STEEL FLOOR & CONCRETE FILL | 15 PSF |
| 8" AVG CONCRETE THICKNESS | 100 PSF |
| FUTURE WEARING SURFACE | 35 PSF |
| TOTAL | 150 PSF |
| TRUSS SHOE REACTION: | |
| DEAD LOAD | 126.19K |
| LIVE LOAD (HS-20-44) | 83.30K |
| IMPACT | 20.30K |
| PED | 17.00K |
| EXPANSION - N/A | |
| CONNECTIONS - FIELD BOLTED & SHOP WELDED | |



FRAMING PLAN
NOT TO SCALE



GENERAL NOTES:

- DESIGN SPECIFICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION I, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
- MATERIAL:
ALL SUPERSTRUCTURE STEEL SHALL BE ASTM A709, GRADE 50 (A572). UNLESS NOTED OTHER. ALL STEEL GALVANIZED AFTER FABRICATION. ALL FASTENERS UNLESS NOTED OTHERWISE, SHALL BE 7/8" Ø HIGH STRENGTH BOLTS, ASTM A325 TYPE 1 (GALV.). WITH ASTM A563 GRADE DH OR DH3 NUT AND ONE ASTM F436 WASHER PER BOLT. FASTENERS SHALL BE FURNISHED WITH ROTATIONAL CAPACITY TEST.

FLOOR BEAMS, STRINGERS, BOTTOM CHORD GUSSET PLATES, BOTTOM CHORD & DIAGONALS REQUIRE NFC ZONE 2 CVN (15 FT-LBS @ 40°F)
- CONSTRUCTION/FABRICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION II, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
- WELDING:
ALL WELDING SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE AND THE AASHTO FRACTURE CONTROL, WHERE APPLICABLE.

NON-DESTRUCTIVE TESTS OF ALL WELDS SHALL BE PERFORMED AS FOLLOWS:
FILLET WELDS - VISUAL - 100% - MT. - 10% MIN PER AWS D1.5
- FLOORING:
8" REINFORCED CONCRETE DECK
- ANCHOR BOLTS
THE ANCHOR BOLTS SHALL BE EITHER BE CAST-IN-PLACE DURING ABUTMENT CONSTRUCTION OR DRILLED AND ANCHORED TO THE ABUTMENTS AFTER THE BRIDGE IS ERECTED. THE ANCHOR BOLTS ARE TO BE ANCHORED USING EPON A7 FAST CURING ACRYLIC ADHESIVE OR EQUAL." EPON A7 IS A PRODUCT OF ITW RED HEAD, 2171 EXECUTIVE DRIVE, ADDISON, IL 60101 PHONE:603-350-0370. THE ACRYLIC ADHESIVE IS FURTHER DESCRIBED AS A TWO COMPONENT METHYL METHACRYLATE ADHESIVE, NON-SAG PASTE, MOISTURE INSENSITIVE WHEN CURED, DARK GREY IN COLOR. MEETS ASTM C881-90, TYPE IV, GRADE 3, CLASS A,B, AND C WITH THE EXCEPTION OF GEL TIME AND EPOXY CONTENT.
- PROFILE GRADE: PROFILE GRADE IS -0.56%

NOTE: DRAWINGS RELATIVE DO NOT SCALE

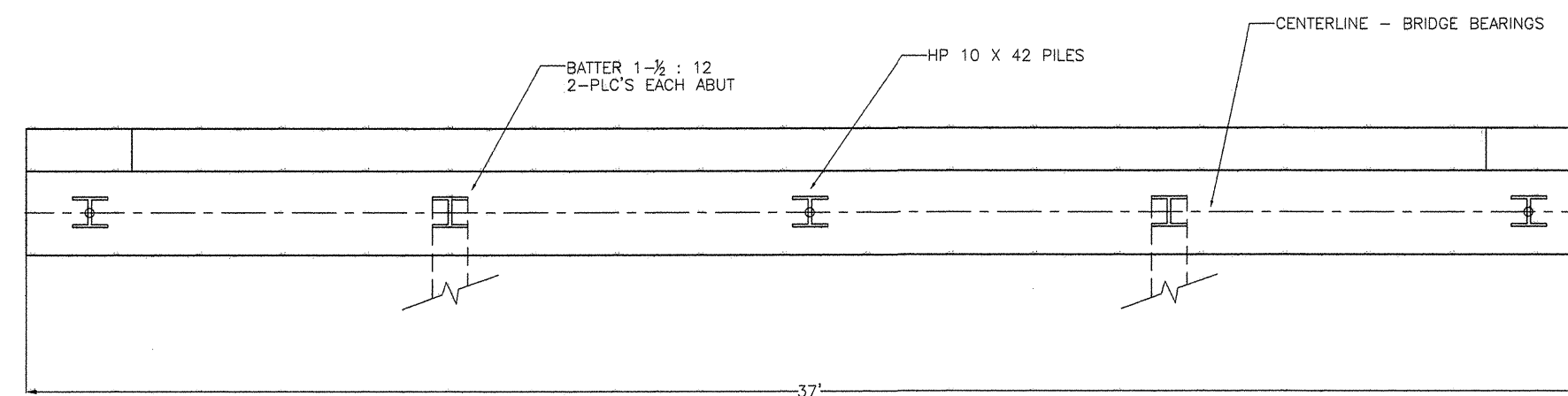


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300 SOUTH RODNEY PARHAM, SUITE # 7
LITTLE ROCK, AR 72205

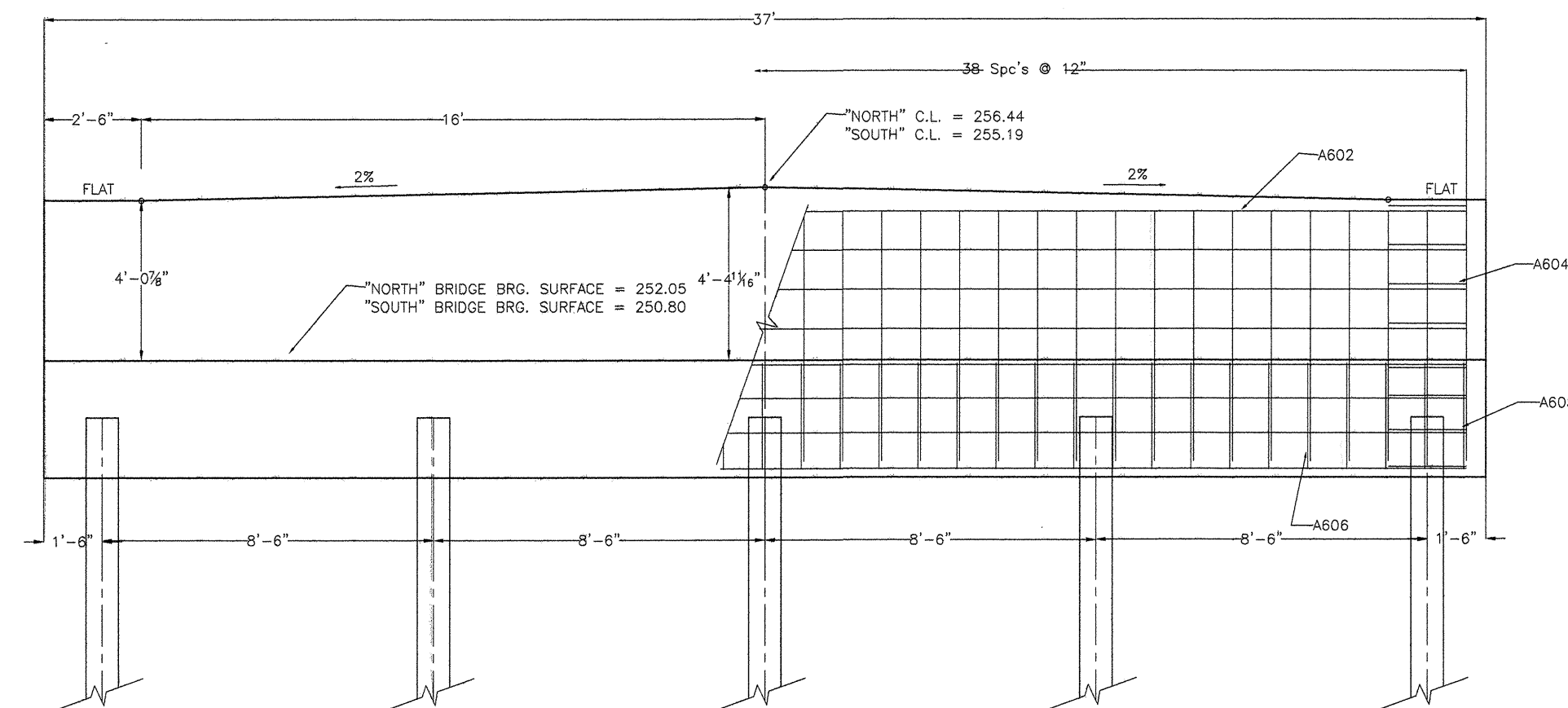
MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
BRIDGE DETAILS - 2
PULASKI COUNTY, ARKANSAS

MARCH 2011

SHEET 18 OF 26

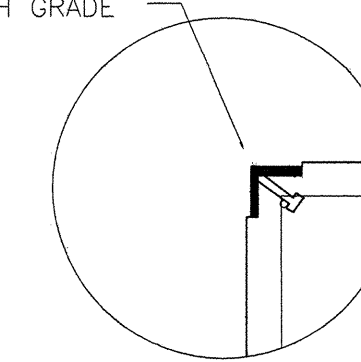


PLAN VIEW
END ABUTMENT WALL
SCALE: 1" = 4'

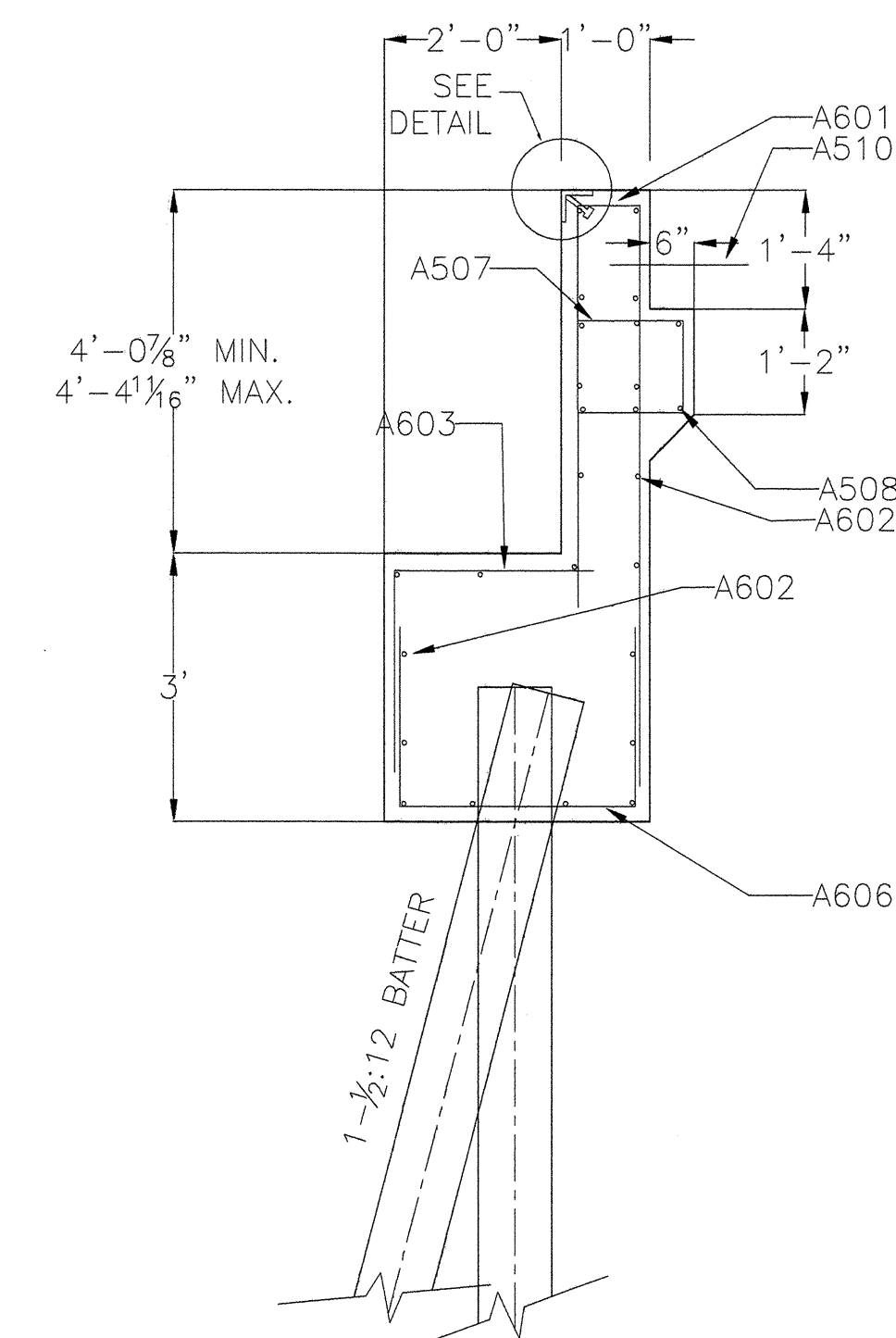


FRONT ELEVATION
END ABUTMENT WALL
SCALE: 1" = 4'

4" X 4" X 3/8" STEEL ANGLE
W/ 3/8" X 4" BOLTS
@ 2' O.C..
SET ANGLE 3/8" BELOW FINISH GRADE



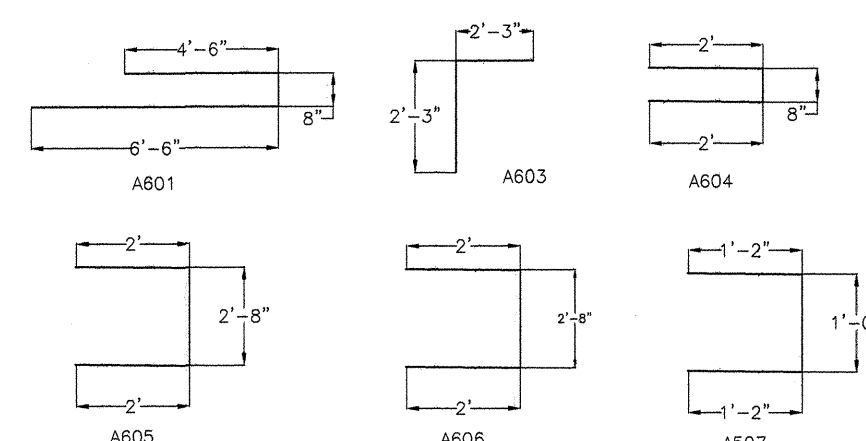
DETAIL
@ ABUTMENT WALL EDGE
SCALE: NONE



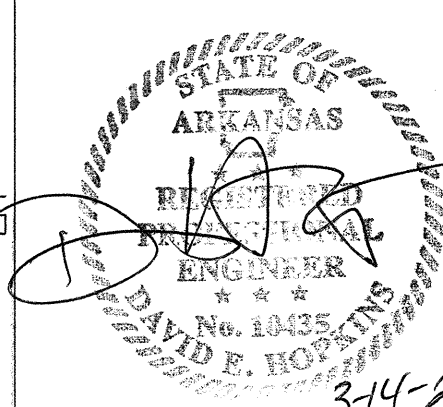
SECTION VIEW
END ABUTMENT WALL
SCALE: 1" = 2'

Quantities per Abutment:
Class S Concrete: 18.5 C.Y.
Grade 60 Steel: 2800 LBS.

| Mark | Number Req'd | | Length | P.O. |
|------|--------------|-------|--------|------|
| | End ① | End ② | | |
| A601 | 39 | 39 | 11'-8" | 4.5" |
| A602 | 20 | 20 | 36'-8" | Str. |
| A603 | 39 | 39 | 4'-6" | 4.5" |
| A604 | 8 | 8 | 4'-6" | 4.5" |
| A605 | 8 | 8 | 6'-8" | 4.5" |
| A606 | 8 | 8 | 6'-8" | 4.5" |
| A507 | 39 | 39 | 3'-4" | 3" |
| A508 | 6 | 6 | 36'-8" | Str. |
| A510 | 39 | 39 | 2'-0" | Str. |



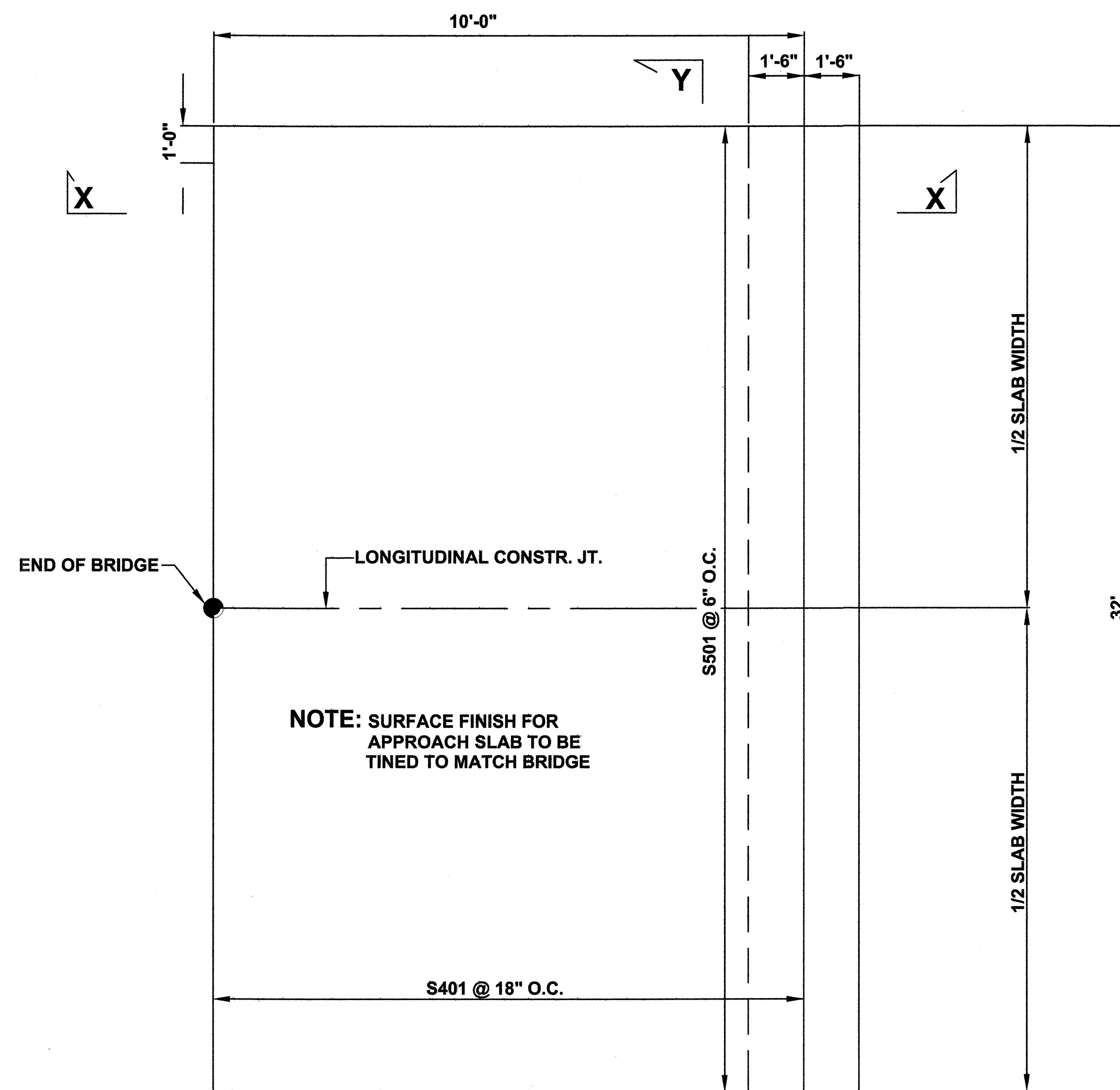
LANDMARK
ENGINEERING & SURVEYING
300 SOUTH RODNEY PARHAM, SUITE # 7
LITTLE ROCK, AR 72205



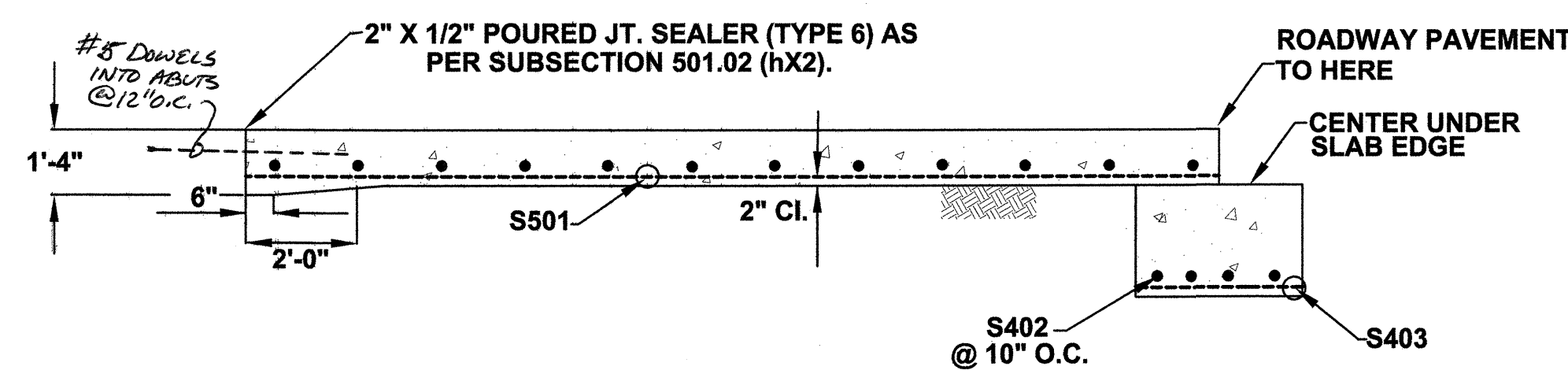
MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
BRIDGE ABUTMENT DETAILS
PULASKI COUNTY, ARKANSAS

MARCH 10, 2011

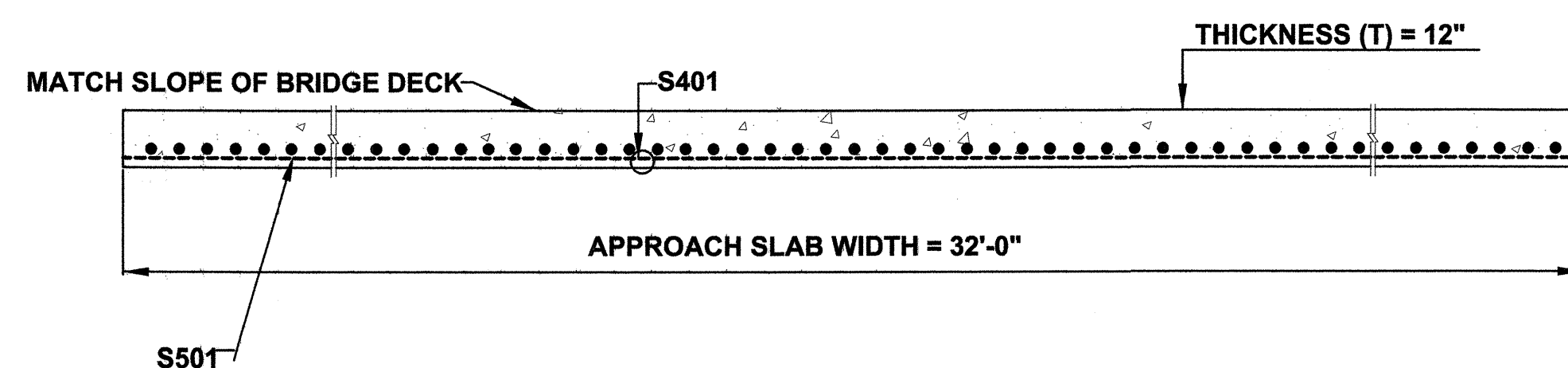
SHEET 19 OF 26



PLAN - APPROACH SLAB



SECTION X - X



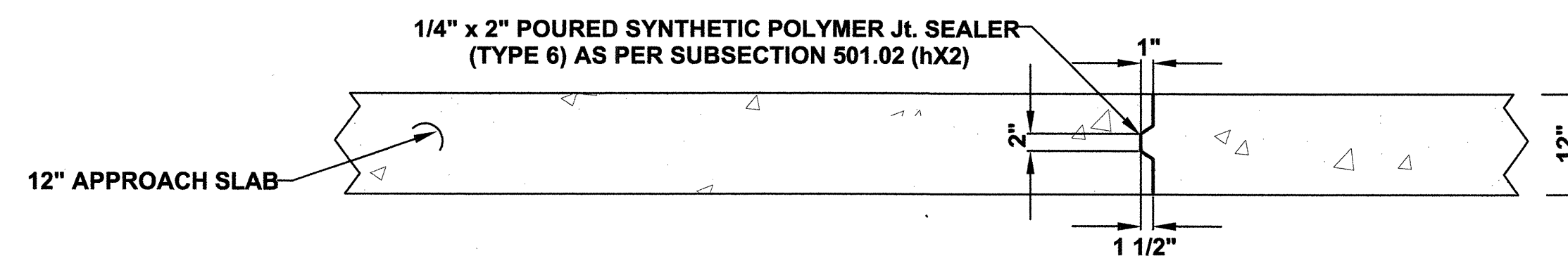
SECTION Y - Y

BAR LIST
FOR ONE APPROACH SLAB

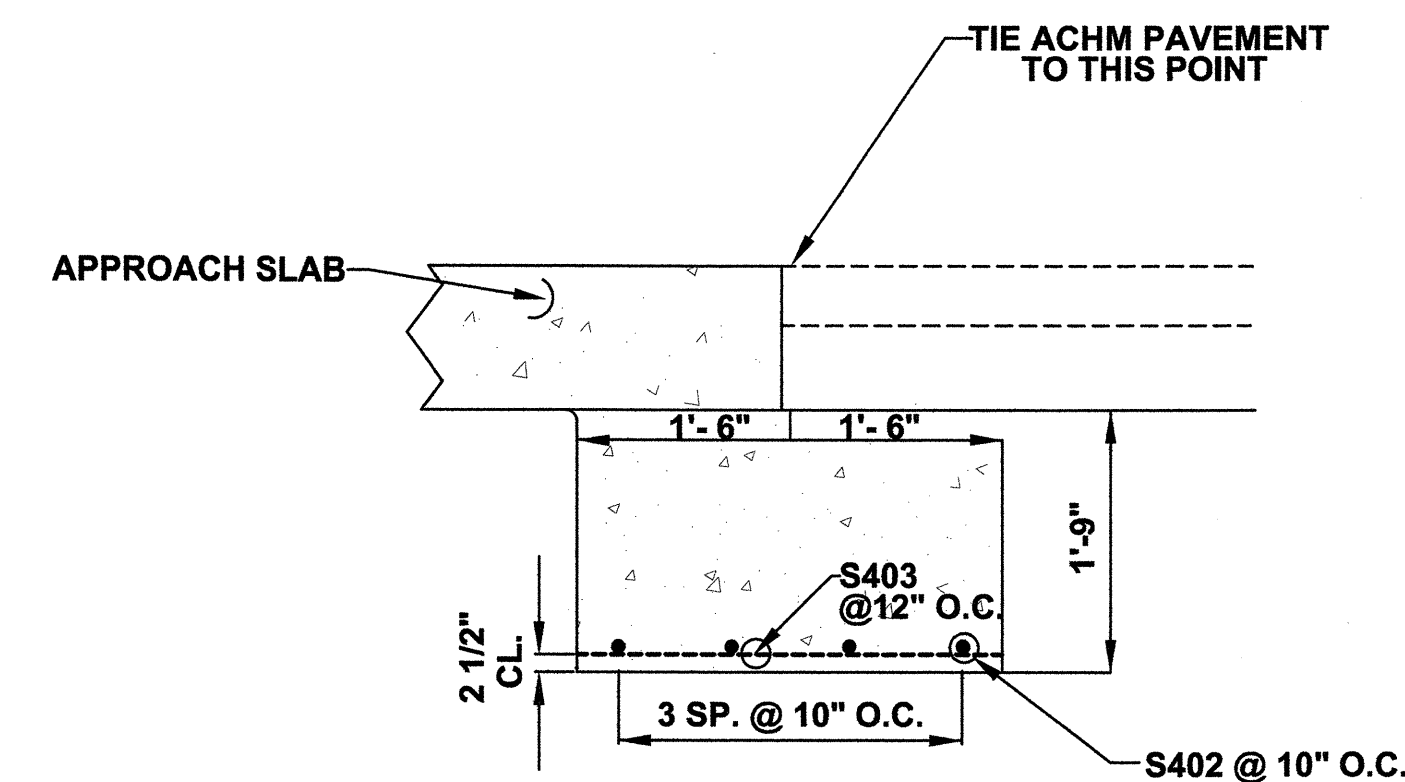
| MARK | NO. REQ'D | LENGTH |
|------|-----------|--------|
| S401 | 16 | 15'-9" |
| S402 | 4 | 31'-6" |
| S403 | 33 | 2'-8" |
| S501 | 66 | 9'-6" |

TABLE OF QUANTITIES
FOR ONE APPROACH SLAB

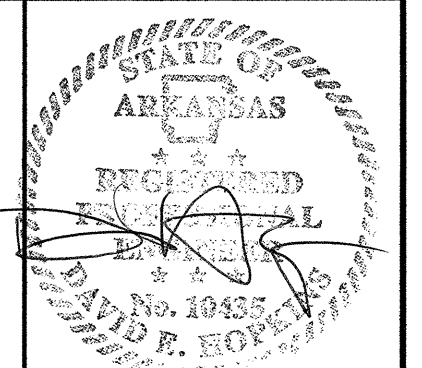
| SLAB WIDTH | REINF. STEEL (LBS) | CONCRETE T = 12" (CY) |
|------------|--------------------|-----------------------|
| 32'-0" | 966 | 18.5 |



DETAILS OF LONGITUDAL
CONSTRUCTION JOINT



DETAILS OF SUPPORT
END OF SLAB



MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
APPROACH SLAB DETAILS
PULASKI COUNTY, ARKANSAS

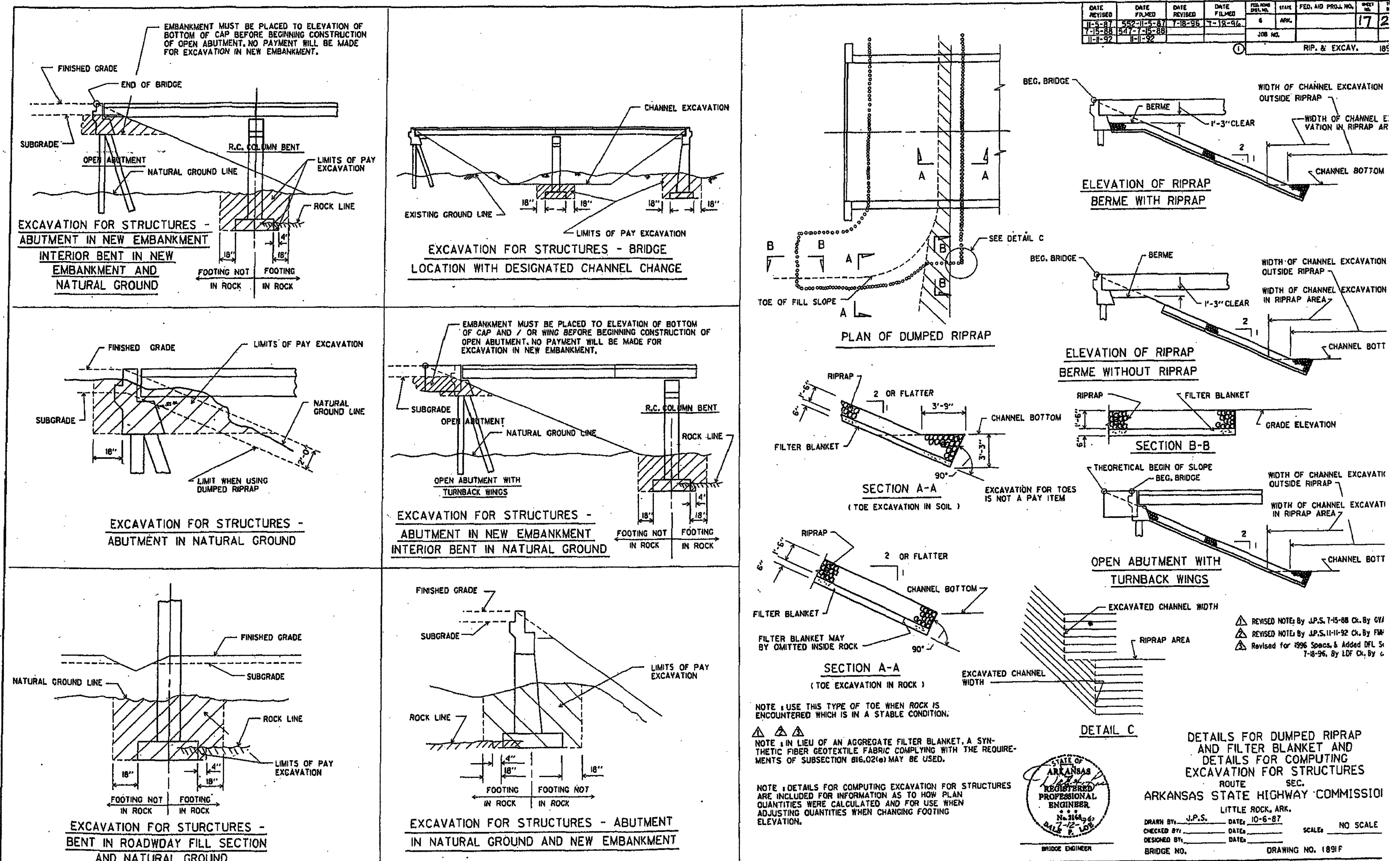
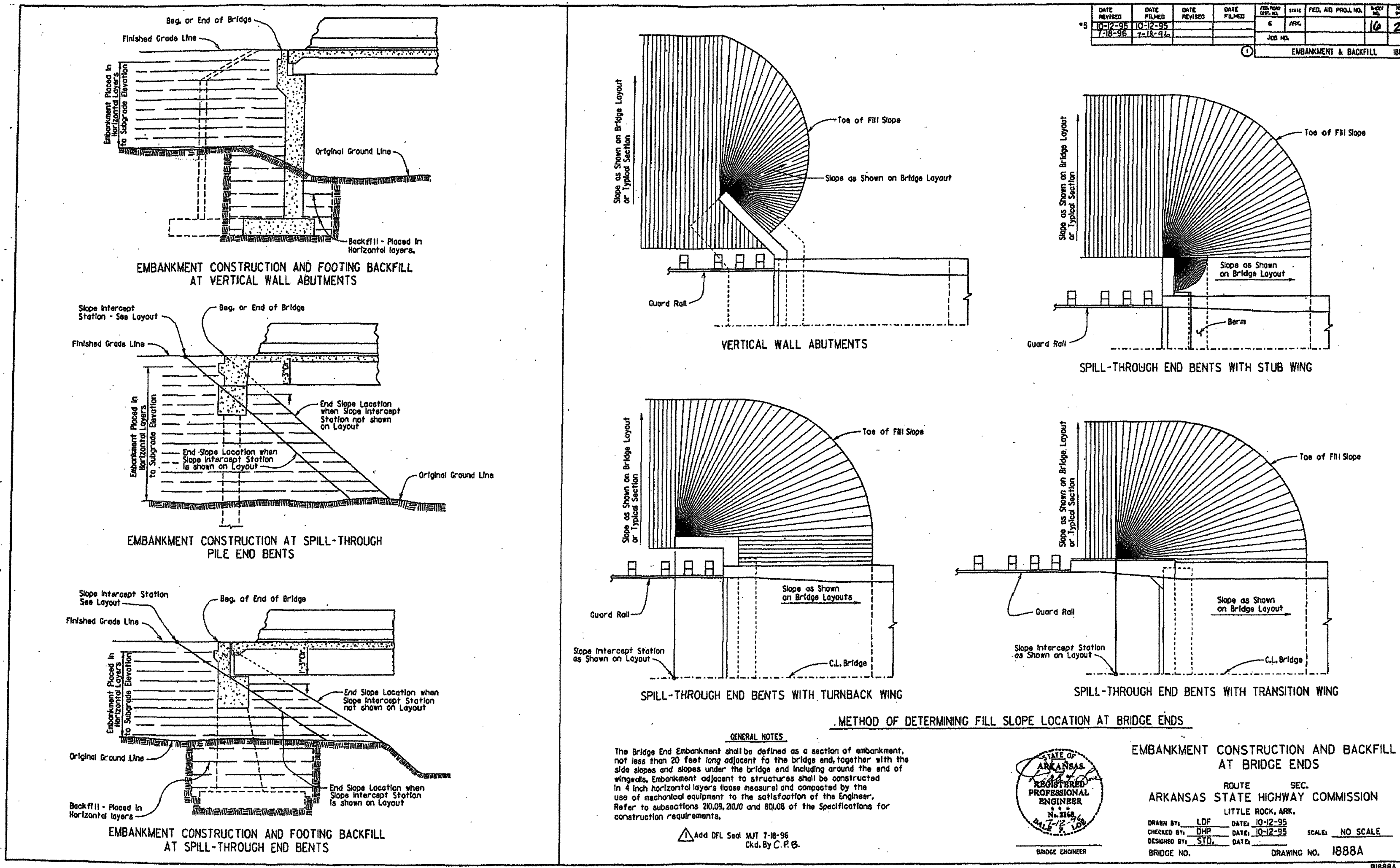
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| REVIEWED BY | | |
| DATE | | |
| SCALE | | |

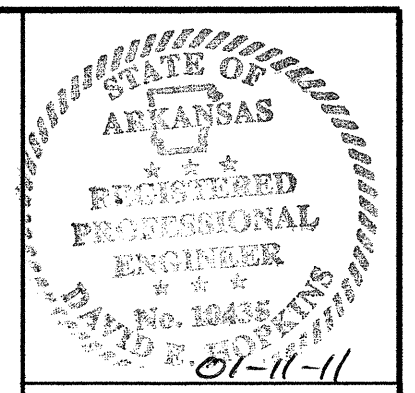
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20

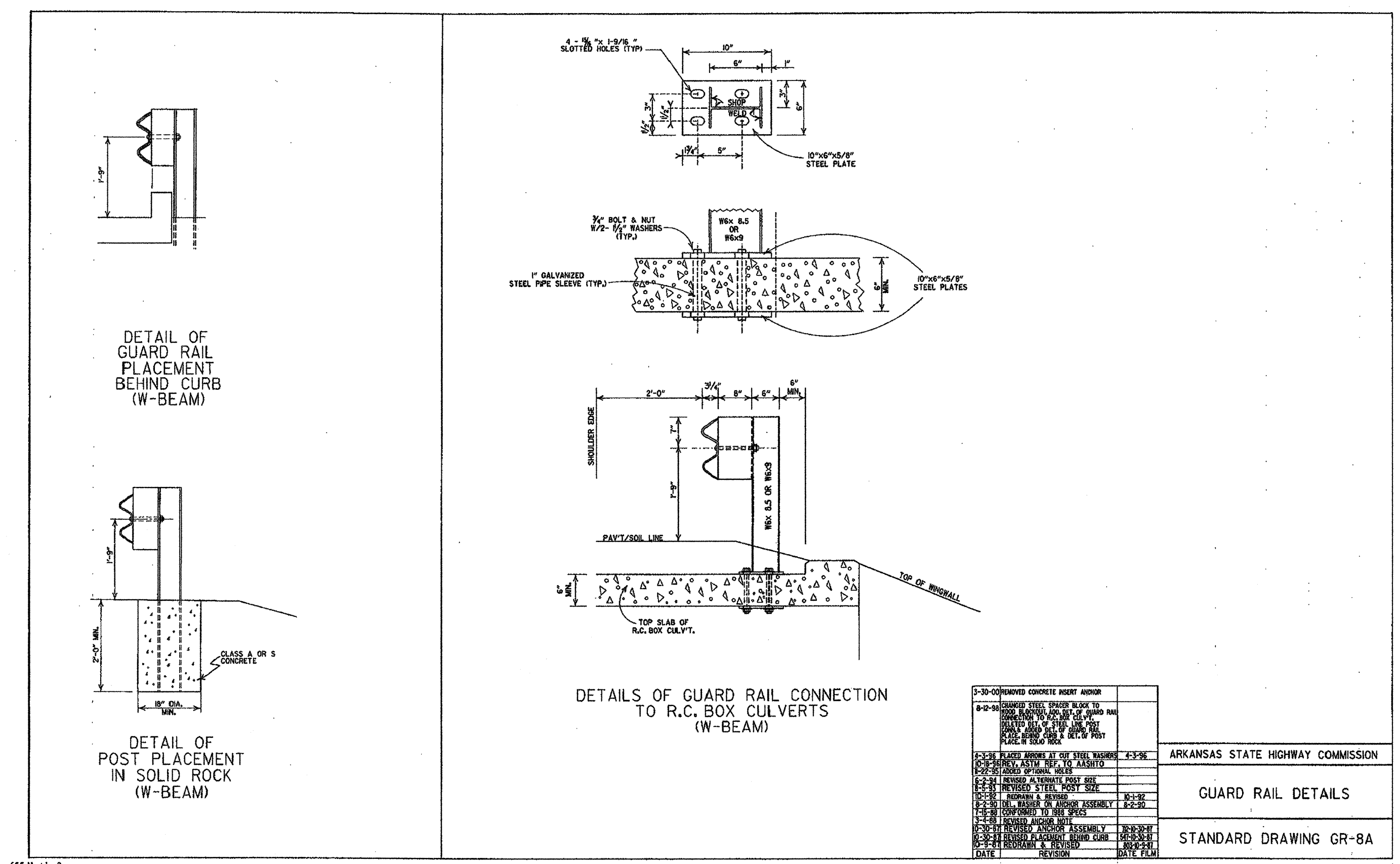
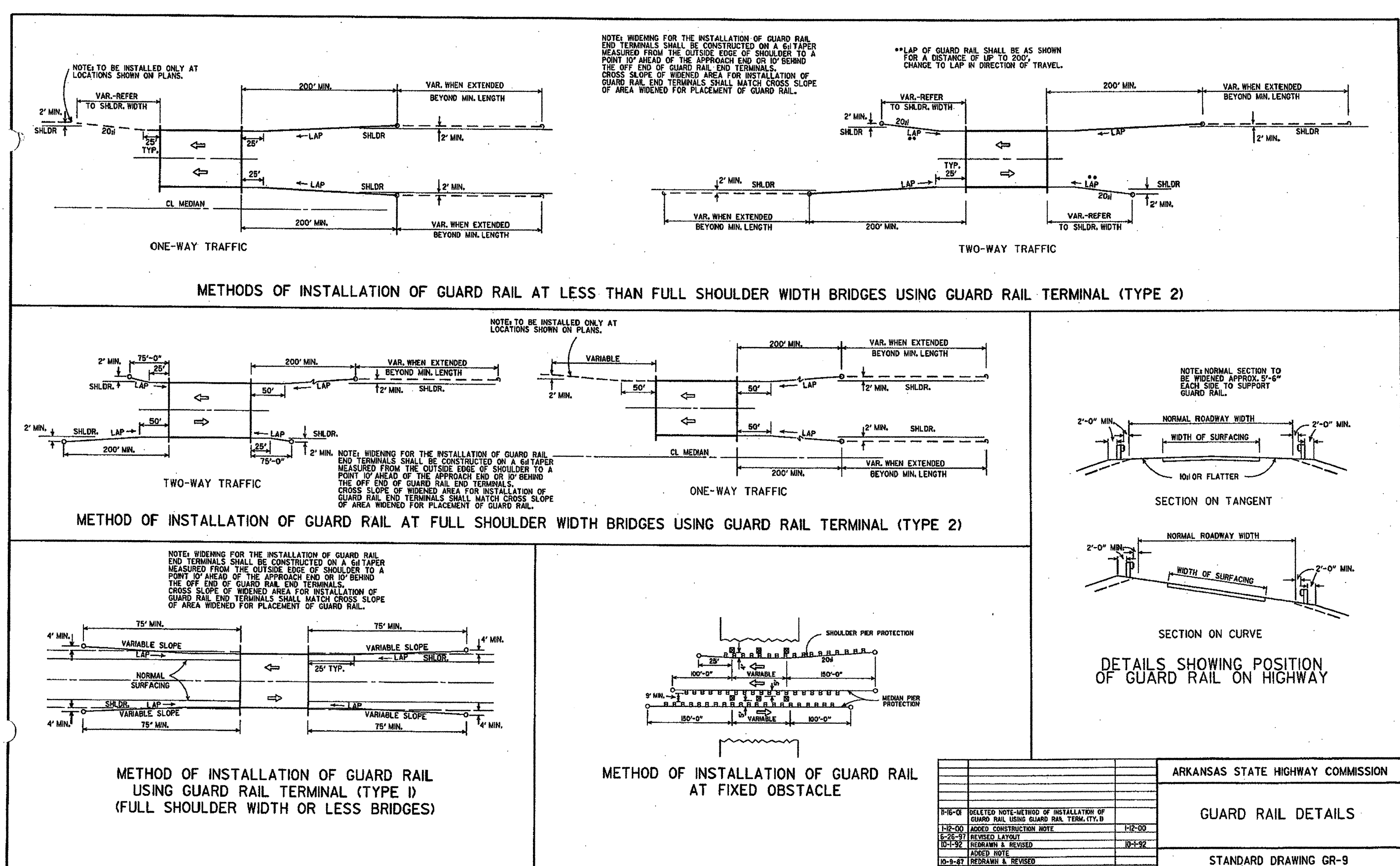
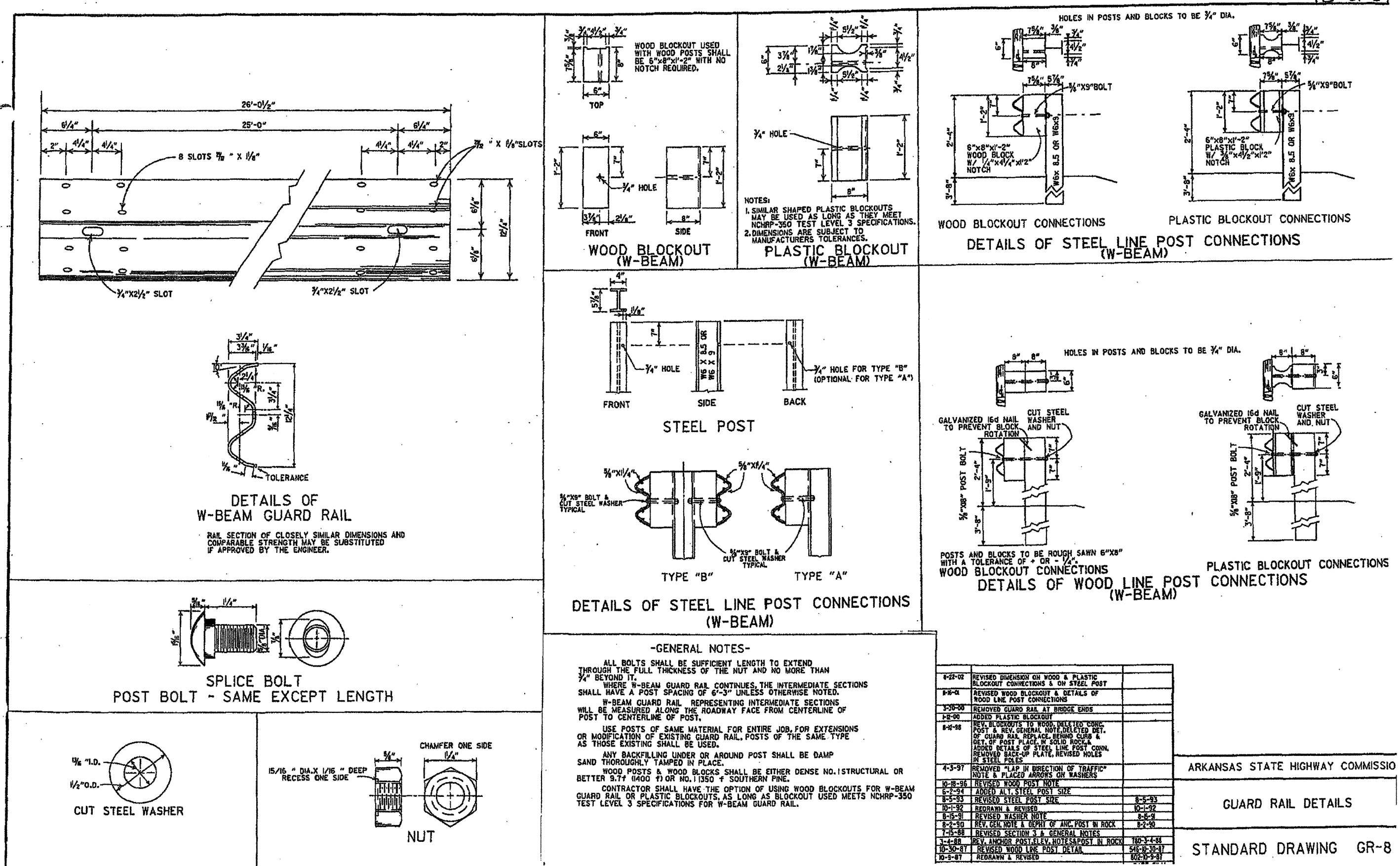
SHEET 20 OF 26





MILES CREEK BRIDGE REPLACEMENT
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS
GUARD RAIL DETAILS

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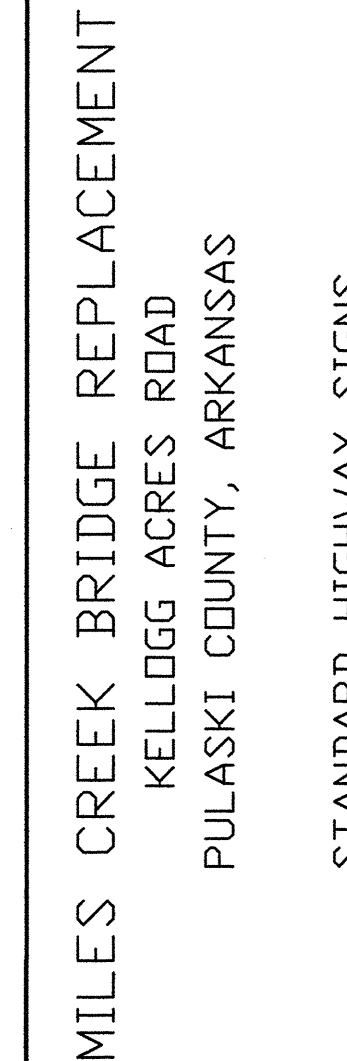
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| DRAWN BY | AHTD |
| CHECKED BY | DEH |
| REVIEWED BY | DEH |
| DATE | |
| SCALE | |

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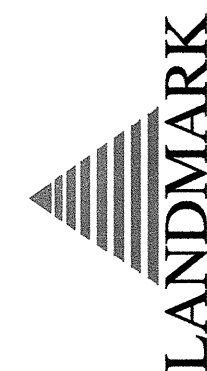
22

SHEET 22 OF 26



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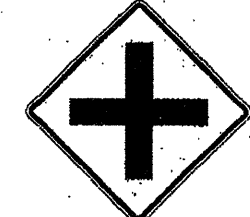

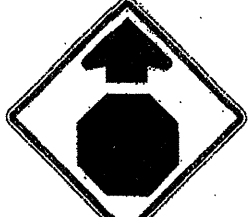

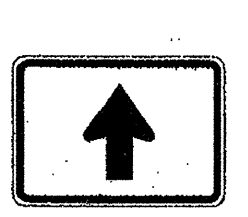
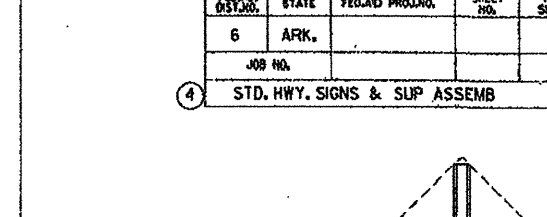
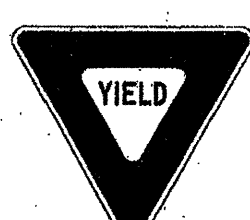




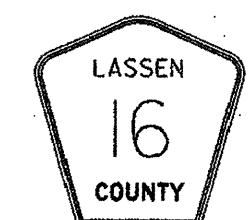
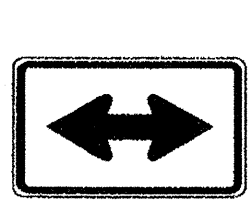
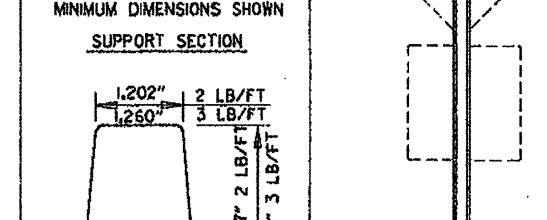
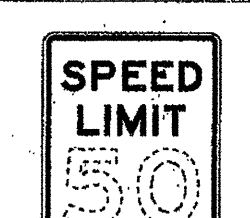

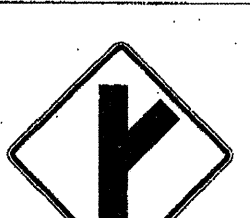

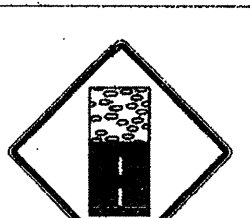

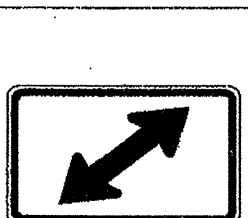

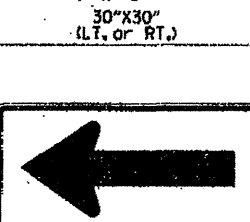
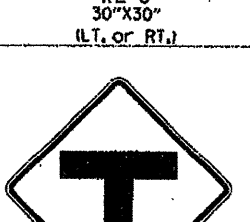

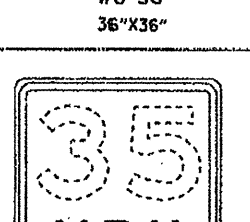
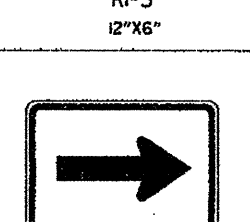
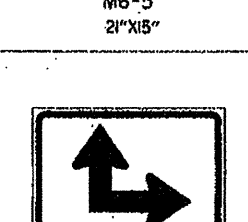
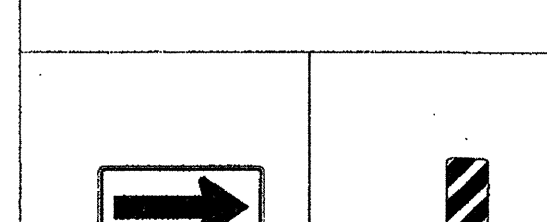

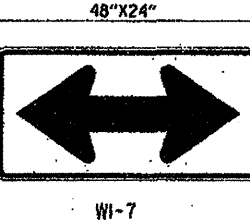
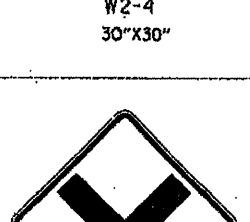

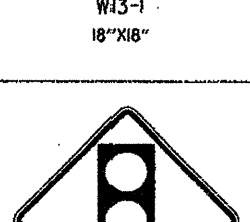

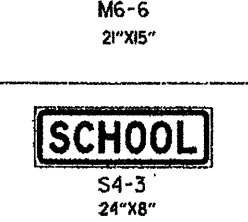
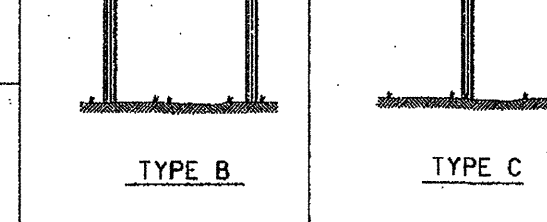


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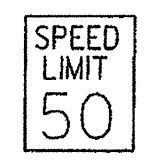
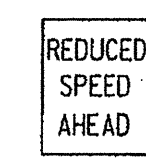
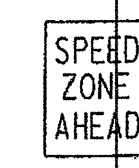
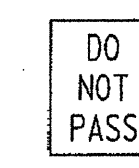

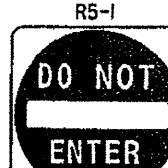
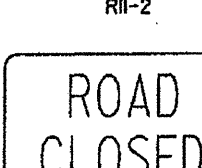
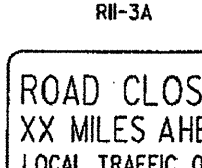
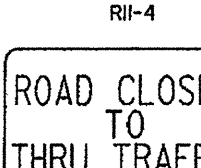
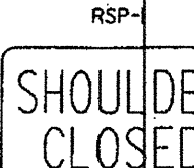
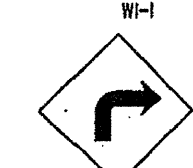
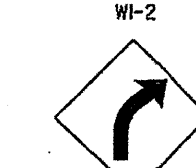
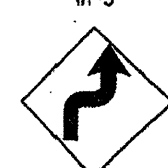

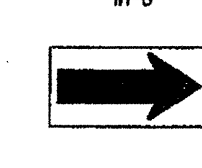
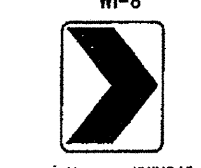
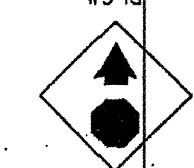
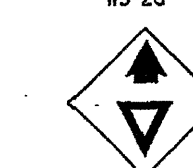
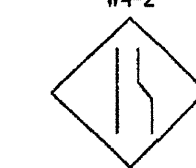

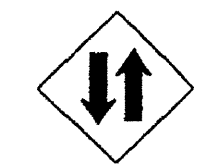

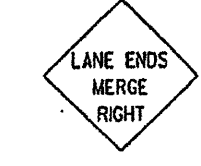
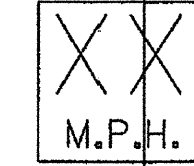

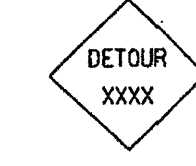



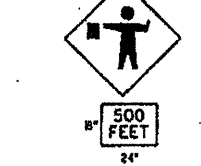

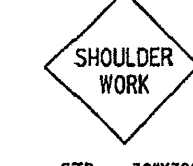
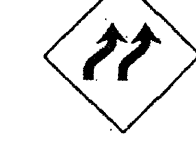

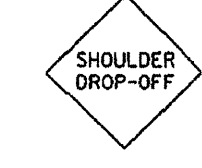
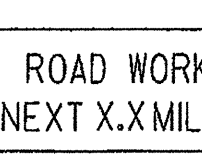
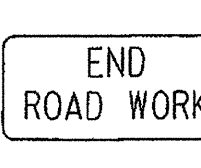
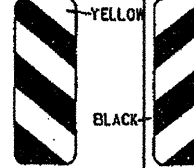
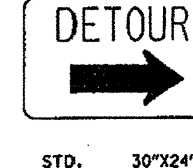

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| | | | | | | | |
|---|--|---|--|---|---|---|--|
|  |  |  |  |  |  |  |  |
| RI-1 30"x30" | W1-3 30"x30" (L.T. OR R.T.) | W2-1 30"x30" | S1-1 36"x36" | W3-1a 36"x36" | W5-1 36"x36" | M6-3 24"x36" | |
|  |  |  |  |  |  |  |  <p>MINIMUM DIMENSIONS SHOWN SUPPORT SECTION</p> <p>(U-CHANNEL) STANDARD SUPPORT ASSEMBLIES</p> <p>TYPE A</p> |
| RI-2 36"x36"x36" | W1-4 30"x30" (L.T. OR R.T.) | W2-2 30"x30" | S2-1 36"x36" | W3-2a 36"x36" | M-5 24"x24" | M6-4 24"x36" | |
|  |  |  |  |  |  |  | <p>NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.</p> <p>TYPE C</p> |
| R2-1 24"x30" | W1-5 30"x30" (L.T. OR R.T.) | W2-3 30"x30" (L.T. OR R.T.) | W5-2 30"x30" | W8-3a 36"x36" | RI-3 12"x36" | M6-5 24"x36" | |
|  |  |  |  |  |  |  |  <p>TYPE B</p> <p>TYPE C</p> |
| W1-1 30"x30" (L.T. OR R.T.) | W1-6 48"x24" | W2-4 30"x30" | W5-3 36"x36" | W13-1 18"x18" | M6-1 24"x36" | M6-6 24"x36" | |
|  |  |  |  |  |  |  |  <p>MINIMUM HEIGHT</p> <p>TYPE C</p> |
| W1-2 30"x30" (L.T. OR R.T.) | W1-7 48"x24" | W2-5 30"x30" | W10-1 36" DIAMETER | W3-3 36"x36" | M6-2 24"x36" | S4-2 24"x36" | |
| STANDARD HIGHWAY SIGNS | | | | | | | STANDARD SUPPORT ASSEMBLIES |

| | | | |
|------|----------------|-----|------|
| ITEM | DESCRIPTION | QTY | UNIT |
| 1 | STOP | 1 | EA |
| 2 | YIELD | 1 | EA |
| 3 | SPEED LIMIT 50 | 1 | EA |
| 4 | W1-3 | 1 | EA |
| 5 | W1-4 | 1 | EA |
| 6 | W1-5 | 1 | EA |
| 7 | W1-6 | 1 | EA |
| 8 | W1-7 | 1 | EA |
| 9 | W1-1 | 1 | EA |
| 10 | W1-2 | 1 | EA |
| 11 | W2-1 | 1 | EA |
| 12 | W2-2 | 1 | EA |
| 13 | W2-3 | 1 | EA |
| 14 | W2-4 | 1 | EA |
| 15 | W2-5 | 1 | EA |
| 16 | W3-1a | 1 | EA |
| 17 | W3-2a | 1 | EA |
| 18 | W3-3 | 1 | EA |
| 19 | W5-1 | 1 | EA |
| 20 | W5-2 | 1 | EA |
| 21 | W5-3 | 1 | EA |
| 22 | W8-3a | 1 | EA |
| 23 | W10-1 | 1 | EA |
| 24 | W13-1 | 1 | EA |
| 25 | S1-1 | 1 | EA |
| 26 | S2-1 | 1 | EA |
| 27 | S4-1 | 1 | EA |
| 28 | S4-2 | 1 | EA |
| 29 | S4-3 | 1 | EA |
| 30 | S4-4 | 1 | EA |
| 31 | S4-5 | 1 | EA |
| 32 | S4-6 | 1 | EA |
| 33 | S4-7 | 1 | EA |
| 34 | S4-8 | 1 | EA |
| 35 | S4-9 | 1 | EA |
| 36 | S4-10 | 1 | EA |
| 37 | S4-11 | 1 | EA |
| 38 | S4-12 | 1 | EA |
| 39 | S4-13 | 1 | EA |
| 40 | S4-14 | 1 | EA |
| 41 | S4-15 | 1 | EA |
| 42 | S4-16 | 1 | EA |
| 43 | S4-17 | 1 | EA |
| 44 | S4-18 | 1 | EA |
| 45 | S4-19 | 1 | EA |
| 46 | S4-20 | 1 | EA |
| 47 | S4-21 | 1 | EA |
| 48 | S4-22 | 1 | EA |
| 49 | S4-23 | 1 | EA |
| 50 | S4-24 | 1 | EA |
| 51 | S4-25 | 1 | EA |
| 52 | S4-26 | 1 | EA |
| 53 | S4-27 | 1 | EA |
| 54 | S4-28 | 1 | EA |
| 55 | S4-29 | 1 | EA |
| 56 | S4-30 | 1 | EA |
| 57 | S4-31 | 1 | EA |
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| 62 | S4-36 | 1 | EA |
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| 64 | S4-38 | 1 | EA |
| 65 | S4-39 | 1 | EA |
| 66 | S4-40 | 1 | EA |
| 67 | S4-41 | 1 | EA |
| 68 | S4-42 | 1 | EA |
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| 72 | S4-46 | 1 | EA |
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| 74 | S4-48 | 1 | EA |
| 75 | S4-49 | 1 | EA |
| 76 | S4-50 | 1 | EA |
| 77 | S4-51 | 1 | EA |
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| 79 | S4-53 | 1 | EA |
| 80 | S4-54 | 1 | EA |
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| 92 | S4-66 | 1 | EA |
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| 97 | S4-71 | 1 | EA |
| 98 | S4-72 | 1 | EA |
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| 302 | S4-276 | 1 | EA |

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| <div>R-1</div> <div></div> <div>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</div> | <div>R-2</div> <div></div> <div>STD. 36"x36"x3/8" EXPY. 48"x48"x3/8" FRY. 60"x60"x3/8"</div> | <div>R-2-1</div> <div></div> <div>STD. 24"x30" EXPY. 36"x48" FRY. 48"x60"</div> | <div>R-2-5A</div> <div></div> <div>STD. 24"x30" EXPY. 36"x48" FRY. 48"x60"</div> | <div>R-2-5C</div> <div></div> <div>STD. 24"x30" EXPY. 36"x48" FRY. 48"x60"</div> | <div>R-4-1</div> <div></div> <div>STD. 24"x30" EXPY. 36"x48" FRY. 48"x60"</div> | <div>R-4-2</div> <div></div> <div>STD. 24"x30" EXPY. 36"x48" FRY. 48"x60"</div> |
| <div>R-5-1</div> <div></div> <div>STD. 30"x30" EXPY. 36"x36" SPECIAL 48"x48"</div> | <div>R-5-2</div> <div></div> <div>48"x30"</div> | <div>R-5-3A</div> <div></div> <div>60"x30"</div> | <div>R-5-4</div> <div></div> <div>60"x30"</div> | <div>R-5P</div> <div></div> <div>48"x36"</div> | <div>W-1</div> <div></div> <div>STD. 36"x36" EXPY. 48"x48" FRY. 60"x60"</div> | <div>W-2</div> <div></div> <div>STD. 36"x36" EXPY. 48"x48" FRY. 60"x60"</div> |
| <div>W-3</div> <div></div> <div>STD. 48"x48"</div> | <div>W-1-4a</div> <div></div> <div>STD. 48"x48"</div> | <div>W-5</div> <div></div> <div>STD. 48"x24" SPECIAL 60"x30"</div> | <div>W-5-8</div> <div></div> <div>STD. 48"x24" SPECIAL 60"x30" EXPY. 30"x36" FRY. 36"x48"</div> | <div>W-5-1a</div> <div></div> <div>STD. 36"x36" SPECIAL 48"x48"</div> | <div>W-5-2a</div> <div></div> <div>STD. 36"x36" SPECIAL 48"x48"</div> | <div>W-4-2</div> <div></div> <div>STD. 36"x36" FRY. 48"x48"</div> |
| <div>W-5-1</div> <div></div> <div>STD. 36"x36" SPECIAL 48"x48"</div> | <div>W-6-3</div> <div></div> <div>EXPY. 36"x36" SPECIAL 48"x48"</div> | <div>W-6-7</div> <div></div> <div>EXPY. 36"x36" FRY. 48"x48"</div> | <div>W-6-2</div> <div></div> <div>STD. 36"x36" FRY. 48"x48"</div> | <div>W-3-1</div> <div></div> <div>STD. 24"x24"</div> | <div>W-20-1</div> <div></div> <div>STD. 48"x48"</div> | <div>W-20-2</div> <div></div> <div>STD. 48"x48"</div> |
| <div>W-20-3</div> <div></div> <div>STD. 48"x48"</div> | <div>W-20-4</div> <div></div> <div>STD. 48"x48"</div> | <div>W-20-5</div> <div></div> <div>STD. 48"x48"</div> | <div>W-20-1a</div> <div></div> <div>STD. 36"x36" FRY. 48"x48"</div> | <div>W-2-2</div> <div></div> <div>STD. 30"x30" SPECIAL 36"x36"</div> | <div>W-2-5</div> <div></div> <div>STD. 30"x30" SPECIAL 36"x36"</div> | <div>W-1-4b</div> <div></div> <div>STD. 48"x48"</div> |
| <div>W-8-1</div> <div></div> <div>STD. 36"x36" FRY. 48"x48"</div> | <div>W-8-3a</div> <div></div> <div>STD. 36"x36" FRY. 48"x48"</div> | <div>G-20-1</div> <div></div> <div>60"x24"</div> | <div>G-20-2A</div> <div></div> <div>48"x24"</div> | <div>OM-3L</div> <div></div> <div>48"x36"</div> | <div>OM-3R</div> <div></div> <div>48"x36"</div> | <div>M-4-5</div> <div></div> <div>48"x36"</div> |

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, EDITION OF 1988 AND PART VI OF THE MUTCD REVISION 3, SEPTEMBER, 1993 AND TO THE STANDARD HIGHWAY SIGNS 1988 EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE UNTIL AS LONG AS NEEDED AND REMOVED THEREAFTER.

3. EXPOSURE SIGNS AND WARNING SIGNS SHALL BE SET UP BEFORE SIGNS ARE PLACED. THEY SHALL BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS OR ARE REMOVED, SHALL BE DAMAGED, DESTROYED OR EXHAUSTED, DRY DURING CONSTRUCTION SHALL BE REPAIRED, OR REPLACED.

4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" LONGER THAN 10' SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE 1A BARRICADE.

5. ALL SIGN AND BARRICADE POSTS SHALL BE 1.5 IN. MINIMUM CHANNEL POST OR 4" DIA. WOOD. POSTS CHANNELING POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE PROPERLY MAINTAINED AND REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 INCHES OF PAINT OR CHIPPING ON CHANNEL POSTS. ALL POSTS SHALL BE SET UP IN ACCORDANCE WITH STANDARD DRAWING T-1-2. PORTABLE SIGN SUPPORTS SHALL BE USED TO MAINTAIN SIGNS IN PLACE TO MINIMIZE DAMAGE TO MOTORISTS. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH SIGN SUPPORTS.

6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS SHALL BE MOUNTED AT A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.

7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED AT A MINIMUM DISTANCE OF 7 FEET FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED AT A MINIMUM DISTANCE OF 7 FEET FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. EXCEPT A MINIMUM OF 6' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. WARNING SIGNS, TEMPORARY SIGNS MAY BE CONSTRUCTED ON PORTABLE SUPPORTS. SIGNS SHALL BE SET UP IN ACCORDANCE WITH STANDARD DRAWING T-1-2. PORTABLE SIGN SUPPORTS SHALL BE USED TO MAINTAIN SIGNS IN PLACE TO MINIMIZE DAMAGE TO MOTORISTS. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH SIGN SUPPORTS.

8. ALL SIGNS SHALL BE PLACED AT LEAST 100 FEET BUT NOT MORE THAN 150 FEET IN ADVANCE OF THE WORK ZONE. IF A REDUCED SPEED ZONE IS IN EFFECT, THE SIGN SHALL BE PLACED AT A MINIMUM OF 500 FEET IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

ADVANCE DISTANCES (XXXX)

500 FT

1000 FT

1500 FT

1/2 MILE

3/4 MILE

1 MILE

AHEAD

FINES DOUBLE IN WORK ZONES

WHEN WORKERS ARE PRESENT **

36"x60"

• USE 6" C LETTERS

• USE 4" D LETTERS

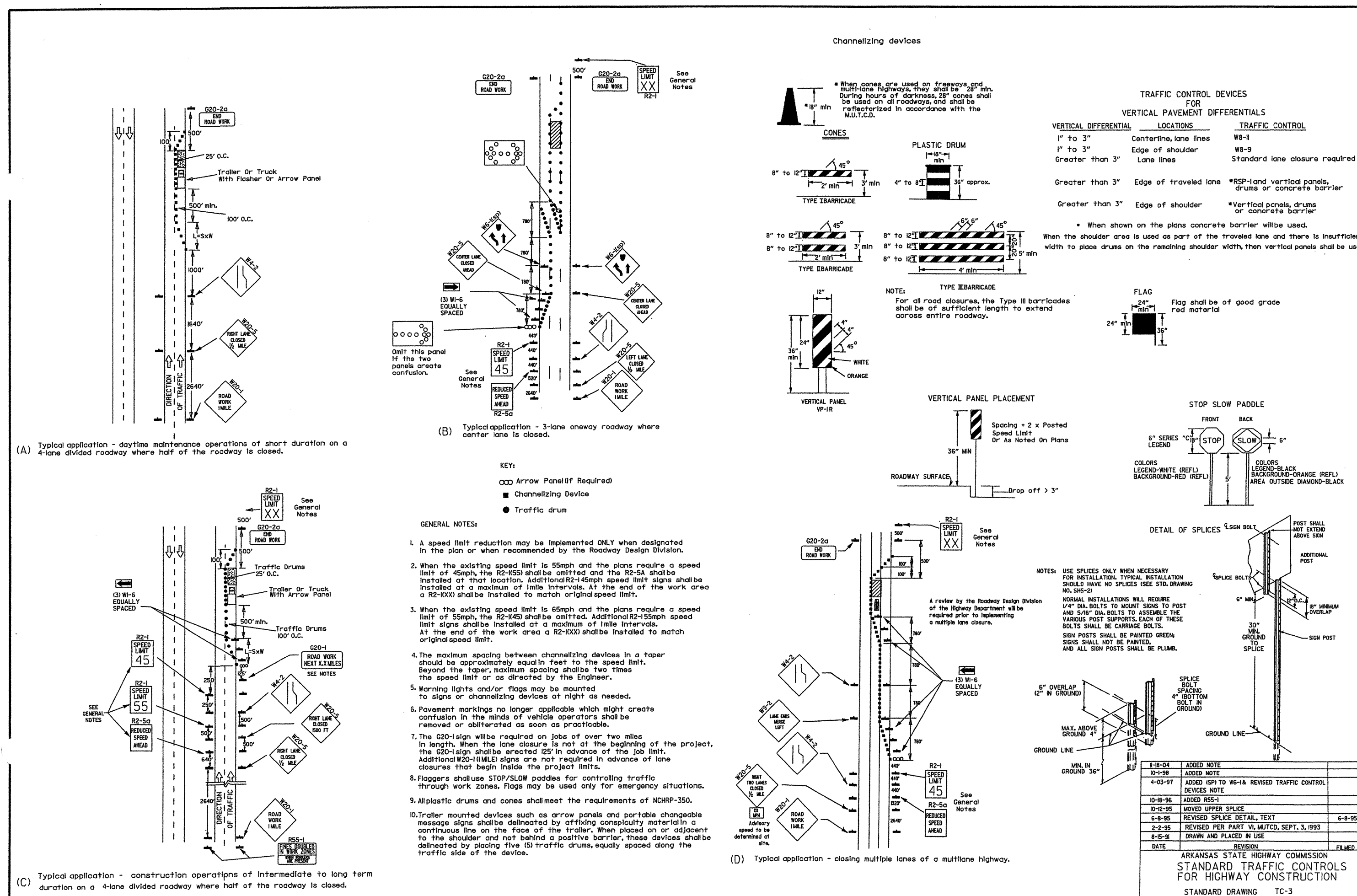
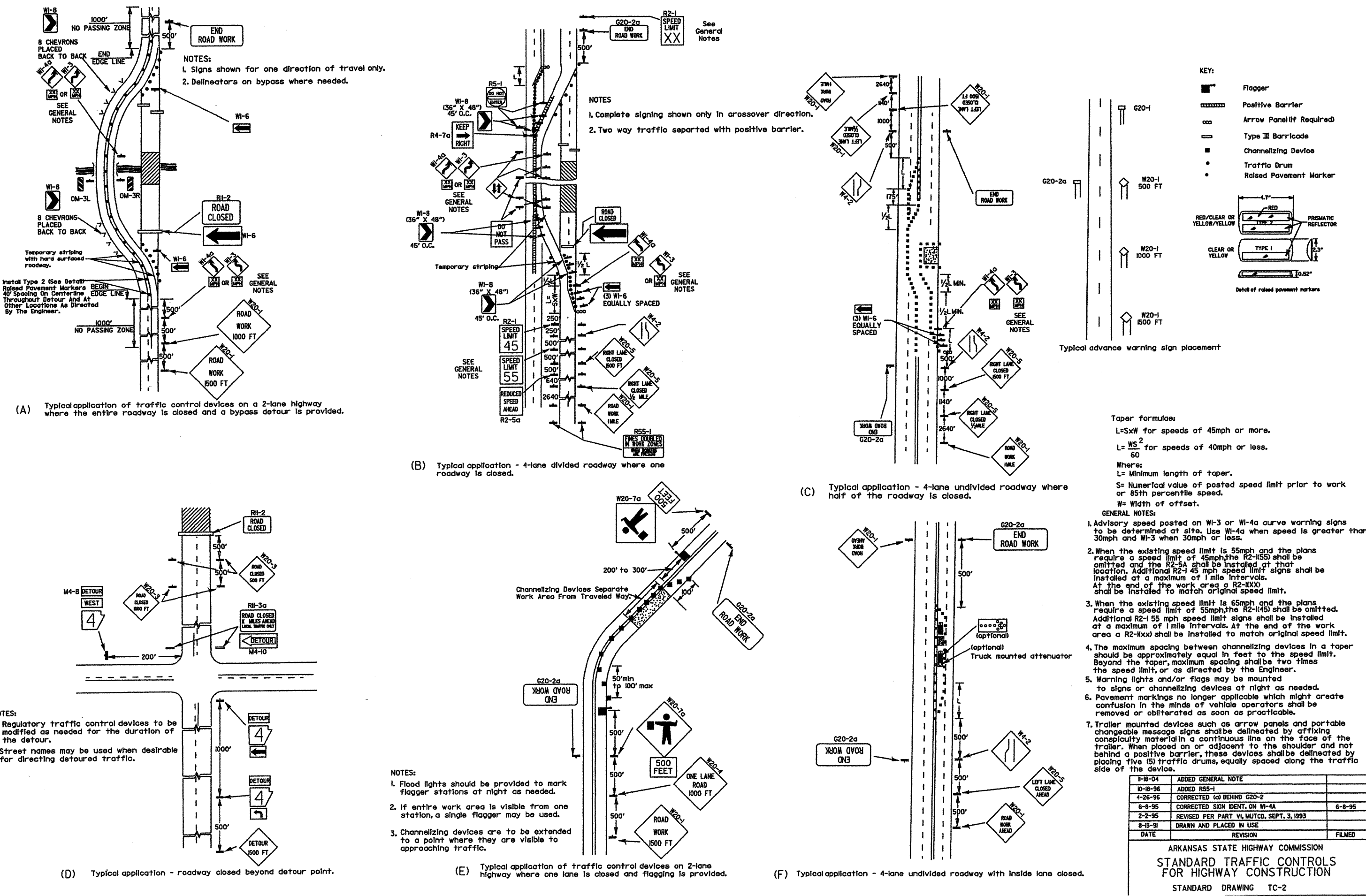
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROL

FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING T-1-2

DWG_INFO



| PROJECT NO. | PROJ. NO. | BY | REVISIONS | DATE |
|-------------|-----------|----|-----------|------|
| DESIGNED BY | AHTD | | | |
| DRAWN BY | AHTD | | | |
| CHECKED BY | DEH | | | |
| REVIEWED BY | DEH | | | |
| DATE | | | | |
| SCALE | | | | |

DATE PLOTTED June 18, 2011

GENERAL NOTES:

1.

DESIGN SPECIFICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION (2002), WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
2.

MATERIAL:
ALL SUPERSTRUCTURE STEEL SHALL BE ASTM A709, GRADE 50W (A588), UNLESS NOTED OTHERWISE. ALL FASTENERS, UNLESS NOTED OTHERWISE SHALL BE 7/8"Ø HIGH STRENGTH BOLTS, ASTM A325 TYPE 3 (WEATHERING) WITH ASTM A563 GRADE DH OR DH3 NUT AND ONE F436 WASHER PER BOLT. FASTENERS SHALL BE FURNISHED WITH ROTATIONAL CAPACITY TEST.

FLOOR BEAMS, STRINGERS, BOTTOM CHORD GUSSET PLATES, BOTTOM CHORDS & DIAGONALS SHALL MEET TOUGHNESS TESTING CRITERIA FOR: NFC ZONE 2 CVN (15 FT-LBS @ 40°F)
3.

CONSTRUCTION/FABRICATION:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION (2002), DIVISION II, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
4.

WELDING:
ALL WELDING SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE AND THE AASHTO FRACTURE CONTROL, WHERE APPLICABLE.

NON-DESTRUCTIVE TESTS OF ALL WELDS SHALL BE PERFORMED AS FOLLOWS:
FILLET WELDS – VISUAL INSPECTION – 100%
FILLET WELDS – MAGNETIC PARTICAL TESTING – 10% MIN PER AWS D1.5
5.

FLOORING:
SIP FORMS TO BE 20 GA WHEELING CORRUGATED TYPE 8.5P WITH MINIMUM G165 GALVANIZED COATING.
6.

ANCHOR BOLTS:
THE ANCHOR BOLTS SHALL EITHER BE CAST-IN-PLACE DURING THE ABUTMENT CONSTRUCTION OR DRILLED AND ANCHORED TO THE ABUTMENTS AFTER THE BRIDGE IS ERECTED. THE ANCHOR BOLTS ARE TO BE ANCHORED USING EPCON A7 FAST CURING ACRYLIC ADHESIVE OR EQUAL. EPCON A7 IS A PRODUCT OF ITW RED HEAD, 2171 EXECUTIVE DRIVE, ADISSON, IL 60101, PHONE:603-350-0370. THE ACRYLIC ADHESIVE IS FURTHER DESCRIBED AS A TWO COMPONENT METHYL METHACRYLATE ADHESIVE, NON-SAG PASTE, MOISTURE INSENSITIVE WHEN CURED, DARK GREY IN COLOR. MEETS ASTM C881-90, TYPE IV, GRADE 3, CLASS A,B AND C WITH THE EXCEPTION OF GEL TIME AND EPOXY CONTENT.
7.

PROFILE GRADE:
SLOPE IS 1.5%
8.

BOLT LENGTHS:
THE LENGTH OF BOLTS IN THESE PLANS HAS BEEN DESIGNED TO PROVIDE A FULLY TENSIONED BOLT WITH 1 HARDENED WASHER AND A THREAD STICK-THROUGH OF BETWEEN 1 AND 3 THREADS, BASED ON THE THEORETICAL SECTION PROPERTIES OF THE JOINED MEMBERS. THREAD STICK THROUGH OF A FULLY TENSIONED BOLT WITH MORE THAN 3 THREADS IS PERMITTED AND MAY OCCUR BECAUSE OF THINNER MEMBERS THAT ARE WITHIN ACCEPTABLE MILL TOLERANCES. THE MINIMUM STICK THROUGH SHALL NOT BE LESS THAN 0 THREADS (FLUSH).

ANY CHANGES TO THE INSTALLED BOLT LENGTHS CALLED FOR IN THESE SHOP DRAWINGS SHALL BE REPORTED TO THE ENGINEERING DEPARTMENT TO BE RECORDED AS AN "AS-BUILT" CONDITION.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE FIELD BOLTS IN ACCORDANCE WITH THESE DRAWINGS. INCORRECTLY INSTALLED BOLTS BY THE CONTRACTOR WILL RESULT IN CHANGED QUANTITIES FROM THOSE INTENDED. THE CONTRACTOR'S INSTALLATION IS SUBJECT TO FIELD REVIEW BY A U.S. BRIDGE REPRESENTATIVE BEFORE ANY CLAIM FOR ADDITIONAL BOLT QUANTITIES OR DELAYS WILL BE CONSIDERED.

SHOP NOTES:

1.

"REF" INDICATES DIMENSION HAS BEEN TRANSPOSED FROM THE CONTRACT DOCUMENTS (CD's).
2.

"CHK" INDICATES DIMENSION IS TO BE USED TO CHECK FABRICATED MEMBER AFTER LAYOUT.
3.

"HOLD" INDICATES DIMENSION HAS GOVERNING PRIORITY OVER OTHER DIMENSIONS.
4.

STAMPING LOCATIONS AND BOLT HOLE SIZES ARE SHOWN WITH A BOX SURROUNDING THE TEXT.
5.

NATURAL OR MILL CAMBER SHALL BE ORIENTED UP ON ALL MEMBERS UNLESS NOTED OTHERWISE.
6.

lower case PIECE MARKS INDICATE INDIVIDUAL PIECES.
7.

UPPER CASE PIECE MARKS INDICATE SHIPPABLE ASSEMBLIES.
8.

ALL FASTENERS INCLUDE 1 BOLT, 1 NUT & 1 WASHER UNLESS NOTED OTHERWISE.
9.

GUSSET PLATE MARKINGS AT VISIBLE PLACE ON OUTSIDE OF CONNECTION.
10.

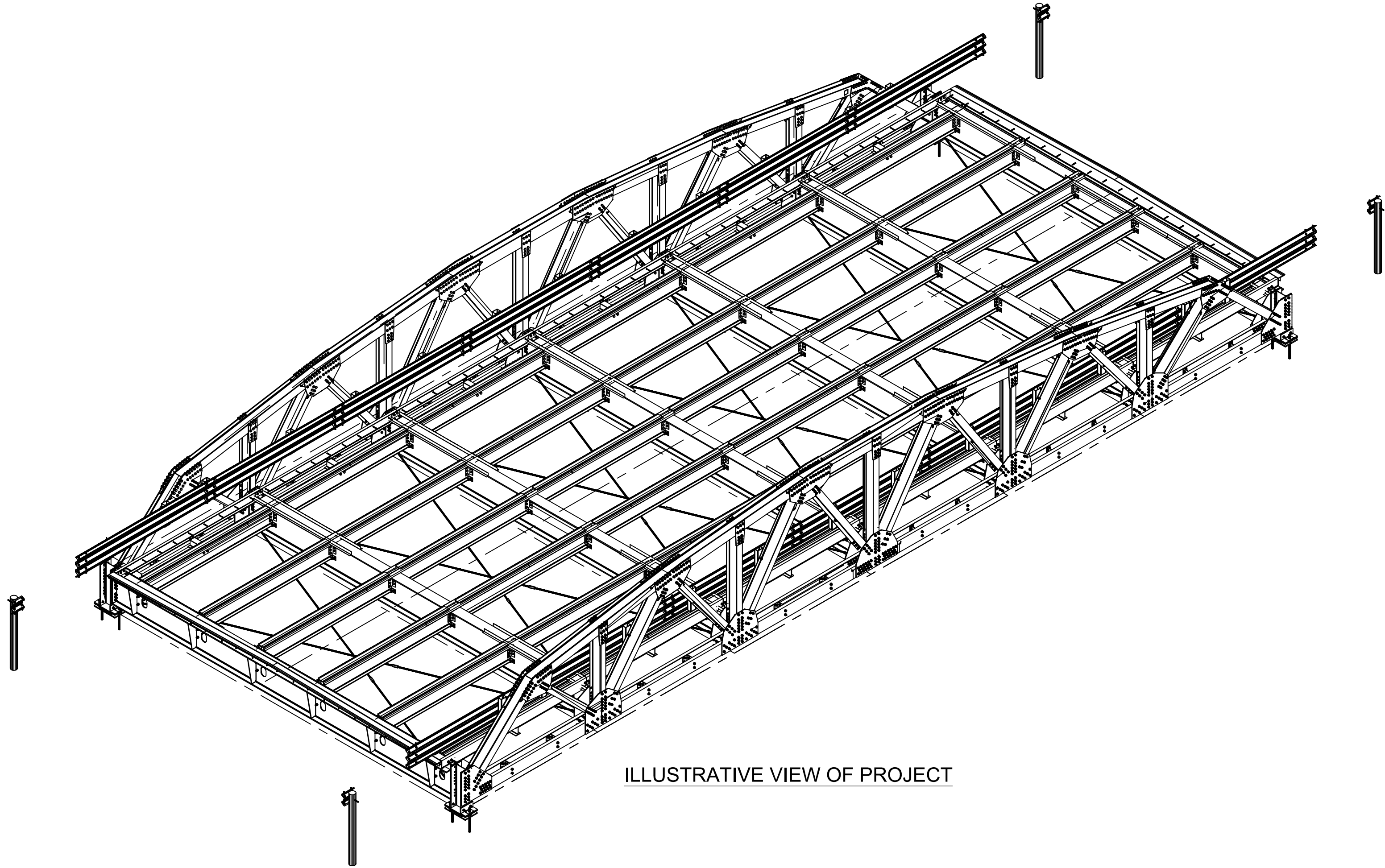
1/2" DIAMETER HOLES SHALL BE DRILLED IN PLAIN MATERIAL THAT IS TO BE GALVANIZED. BURNING BY TORCH IS PROHIBITED. TWO HOLES MINIMUM SHALL BE SYMMETRICALLY LOCATED ALONG A USUAL GAGE LINE OF THE SHAPE OR PLATE AND NO CLOSER THAN 2" TO ANY FREE EDGE.
11.

TEMPORARY BOLTS FOR SHIPPING (TEMP BOLTS) SHALL BE ZINC PLATED AND INCLUDE 1 FLAT WASHER + 1 LOCK WASHER + 1 NUT INSTALLED IN SAME SIDE AND FASTENED SNUG TIGHT; 3 MIN. PER CONNECTION. TEMPORARY BOLTS ARE NOT QUANTIFIED IN THESE PLANS.

FABRICATION DRAWINGS DETAILED IN ACCORDANCE WITH PULASKI COUNTY CONTRACT DRAWINGS BY LANDMARK ENGINEERING DATED MARCH 2011.

MILES CREEK BRIDGE

PULASKI COUNTY, ARKANSAS



ILLUSTRATIVE VIEW OF PROJECT

PROJECT DESIGN CRITERIA:

SPAN 80'-00" C/C BEARINGS
ROADWAY WIDTH: 32'-0"
SIDEWALK: N/A
SKEW: N/A
DESIGN LIVE LOAD: HS20
EXPANSION: 0.63" FOR ΔT=100°F
CONNECTIONS: FIELD BOLTED & SHOP WELDED

DESIGN LOADS:
SIP FORMS & FILL 15 PSF
8" CONCRETE 100 PSF
FUTURE WEARING SURFACE 35 PSF
TOTAL 150 PSF

TRUSS SHOE REACTION: (UNFACTORED)
DEAD LOAD 115.1K
LIVE LOAD 83.3K
IMPACT 20.3K
TOTAL 218.7K

LATERAL FORCES (UNFACTORED)
WIND 18.0K
SEISMIC 28.8K

HORIZONTAL FORCES
SEISMIC 57.6K
BRAKING 4.2K

INDEX OF SHEETS

| SERIES # | DESCRIPTION |
|----------|--|
| 1 | TITLE SHEET |
| 2 | CONSTRUCTION PLANS/FRAMING |
| 3 | CONSTRUCTION PLANS/TRANSVERSE SECTIONS |
| 4 | CONSTRUCTION PLANS/ABUTMENTS |
| 5 | CONSTRUCTION PLANS/FIELD ASSEMBLY |
| 6 | CONSTRUCTION PLANS/FLOORING PLAN |
| 7 | CONSTRUCTION PLANS/RAILING LAYOUT |
| 8 | BILL OF MATERIALS |
| 9 | SHOP DETAILS/TRUSS ASSEMBLY |
| 10 | SHOP DETAILS/SHOP ASSEMBLY |
| 11 | SHOP DETAILS/PROFILES |
| 12 | SHOP DETAILS/PLATES |
| NA | SHOP DETAILS/FLOORING |
| 14 | SHOP DETAILS/RAILING |
| | |



| SYMBOLS & ABBREVIATIONS | |
|-------------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| CL: CENTERLINE | WP/⬢: WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C\C: CENTER TO CENTER | BRG: BEARING |
| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/Ø: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

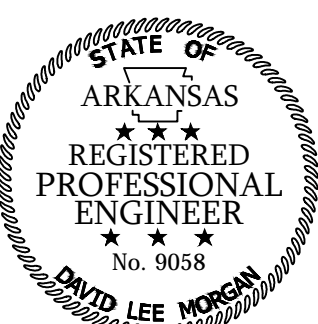
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FAB. BY:



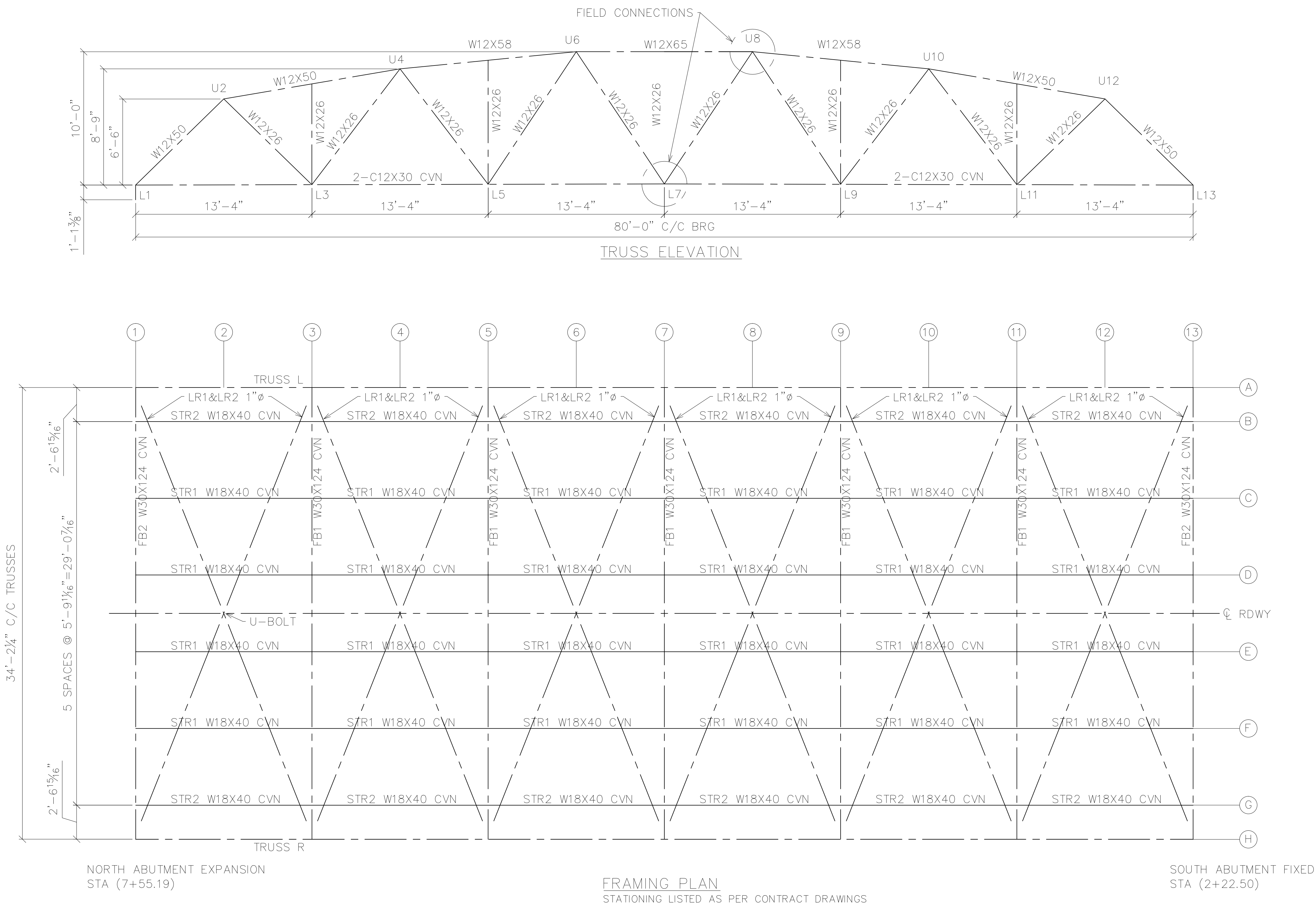
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|-------------------|---------|-----|-------|------------|-----|
| INITIAL SUBMITTAL | 6-16-11 | △ | | | |
| RESUBMITTAL NO. | - | △ | | | |
| CUSTOMER APPROVAL | - | △ | | | |
| SHOP REVIEW | 6-16-11 | △ | | | |
| PRE FAB MTG | - | △ | | | |
| APPROVED FOR FAB | - | △ | | | |



MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

| | | | | | |
|-------------|-----------|-------------|------------|----------------|----------|
| DESIGN: SAF | DRAW: CRM | REVIEW: DLM | CHECK: AEC | SHEET 1 | 22 TOTAL |
| TITLE SHEET | | | | USB JOB# 50462 | |



SYMBOLS & ABBREVIATIONS

| | |
|-----------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| CL: CENTERLINE | WP/⬤: WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C\C: CENTER TO CENTER | BRG: BEARING |
| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/⌀: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

DIST. BY:



FAB. BY:



| SUBMITTAL LOG | DATE | NO: | DATE: | REVISIONS: | BY: |
|-------------------|---------|-----|-------|------------|-----|
| INITIAL SUBMITTAL | 6-16-11 | ▲ | | | |
| RESUBMITTAL NO. | - | ▲ | | | |
| CUSTOMER APPROVAL | - | ▲ | | | |
| SHOP REVIEW | 6-16-11 | ▲ | | | |
| PRE FAB MTG | - | ▲ | | | |
| APPROVED FOR FAB | - | ▲ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM

REVIEW: DLM
FRAMING

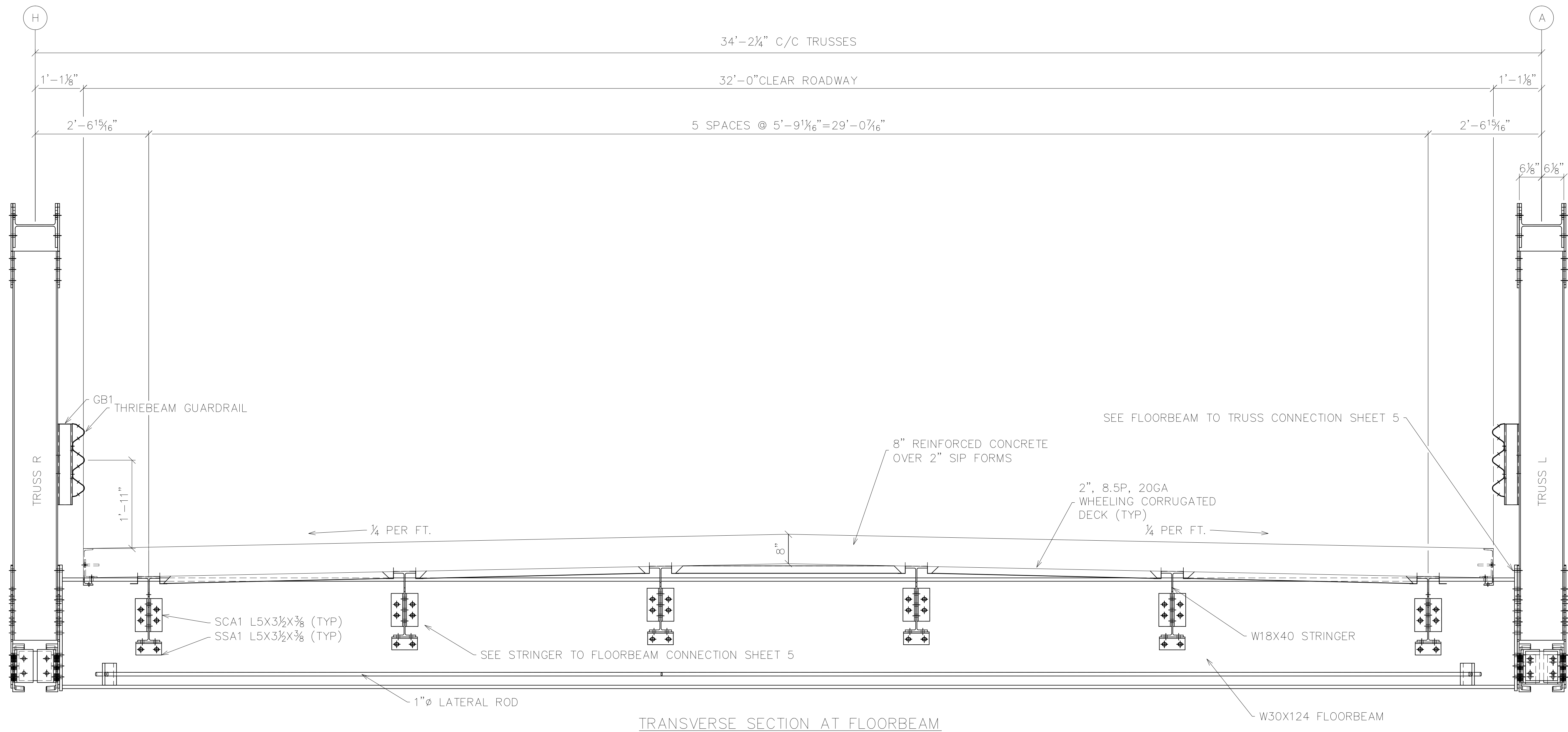
CHECK: AEC
USB JOB#
50462

SHEET

2

22

TOTAL



SYMBOLS & ABBREVIATIONS

| | |
|-----------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| CL: CENTERLINE | WP/◆: WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C\C: CENTER TO CENTER | BRG: BEARING |
| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/∅: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

DIST. BY:



FAB. BY:



SUBMITTAL LOG

| NO: | DATE: | REVISIONS: | BY: |
|-----|---------|-------------------|-----|
| 1 | 6-16-11 | INITIAL SUBMITTAL | |
| 2 | - | RESUBMITTAL NO. | |
| 3 | - | CUSTOMER APPROVAL | |
| 4 | 6-16-11 | SHOP REVIEW | |
| 5 | - | PRE FAB MTG | |
| 6 | - | APPROVED FOR FAB | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF

DRAW: CRM

REVIEW: DLM

CHECK: AEC

CONSTRUCTION PLANS

TRANSVERSE SECTION

USB JOB#
50462



SHEET

3a

22

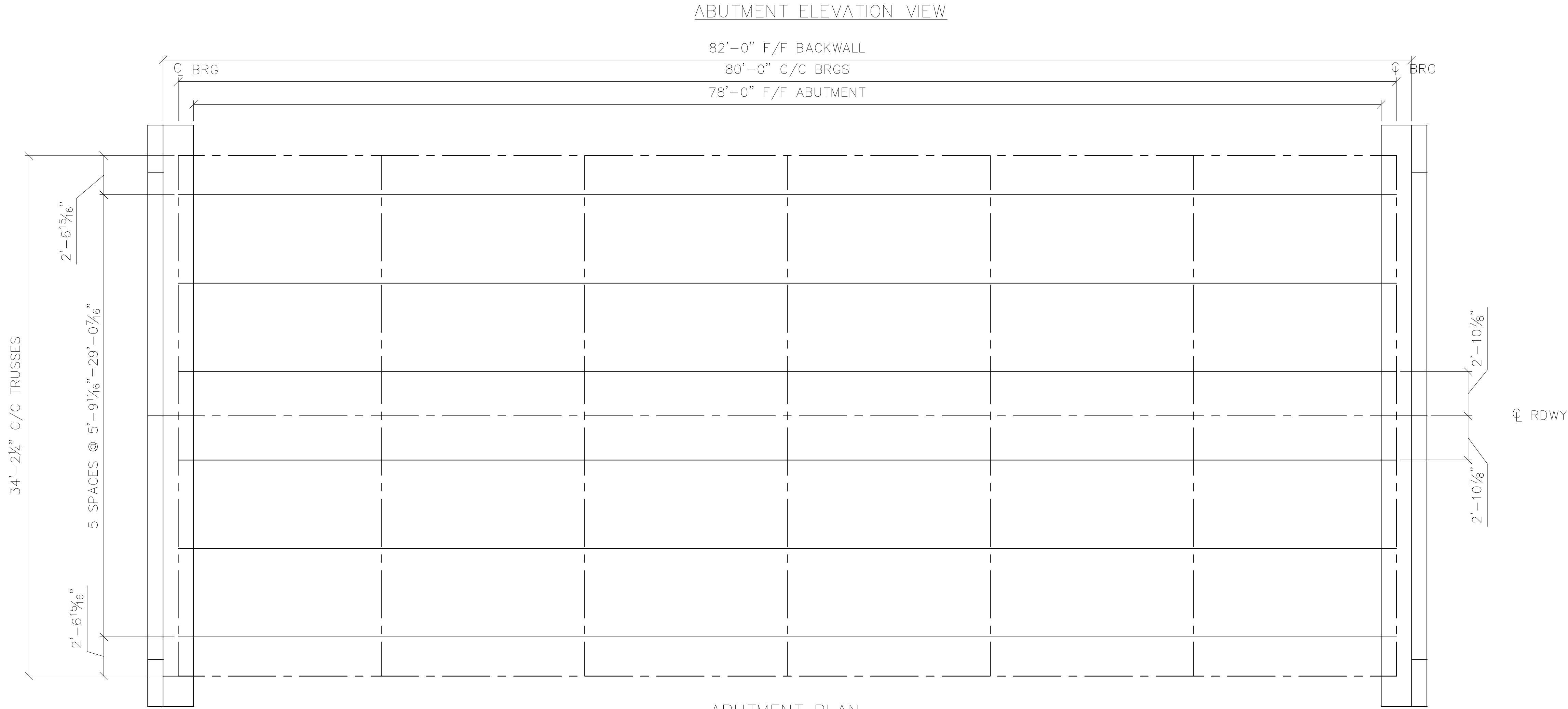
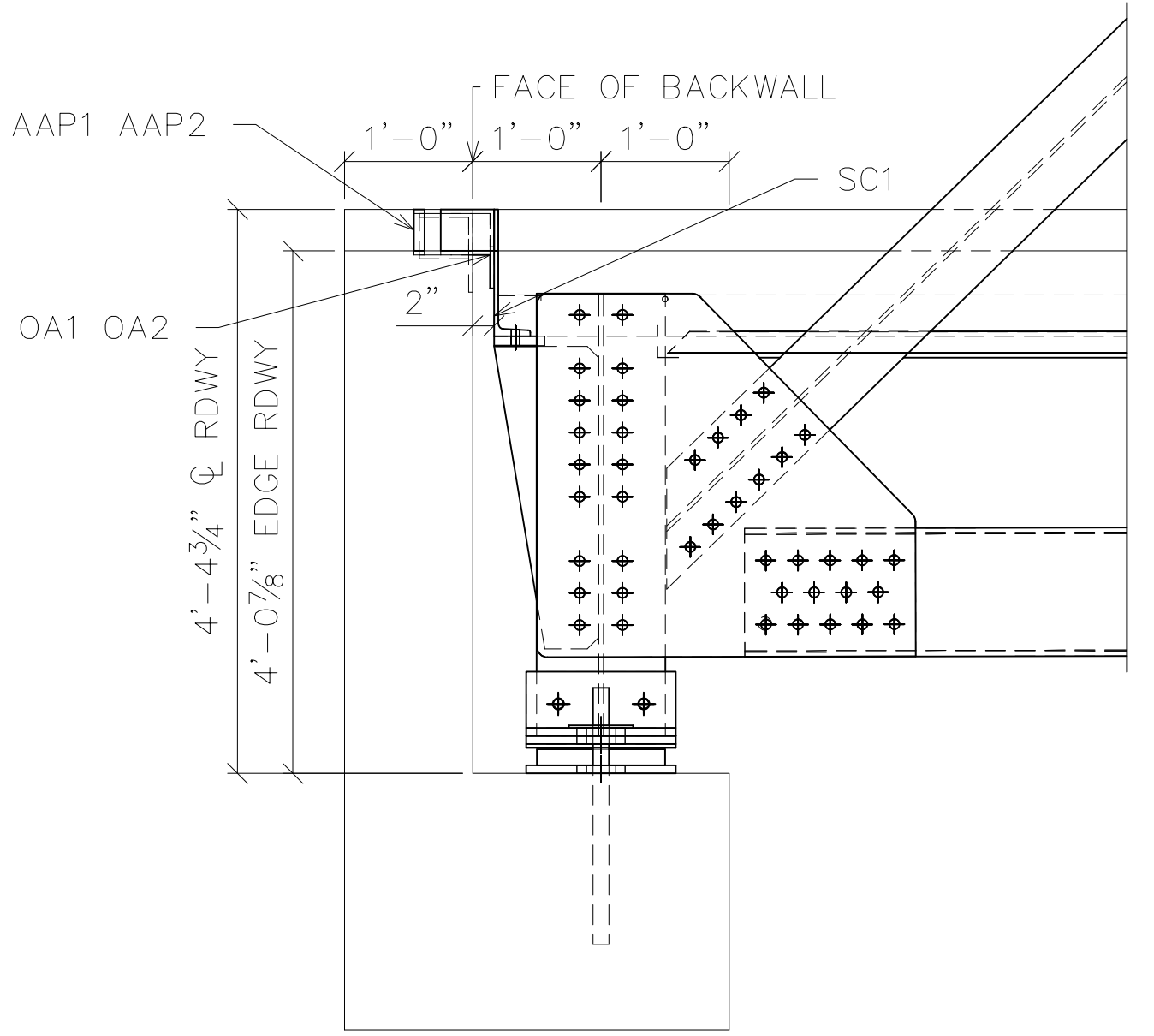
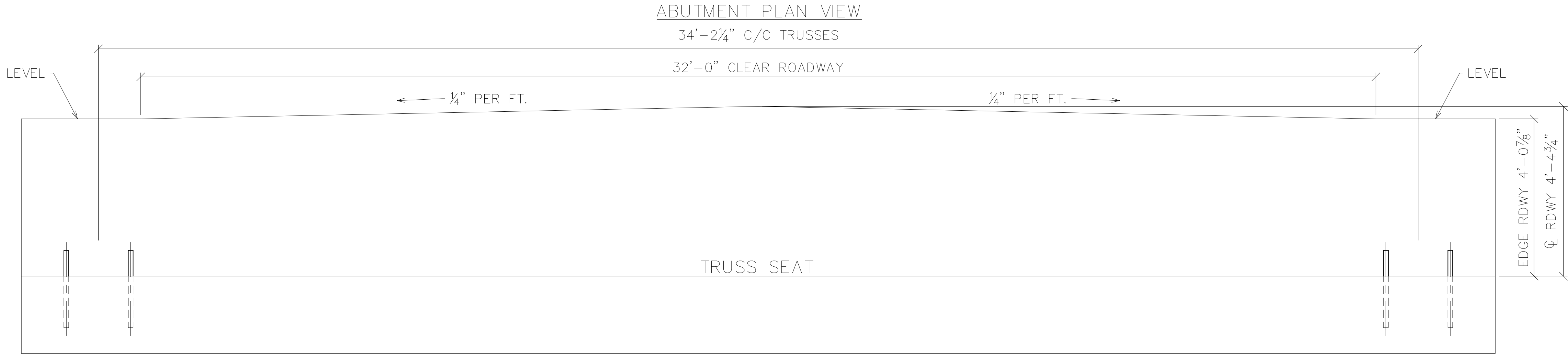
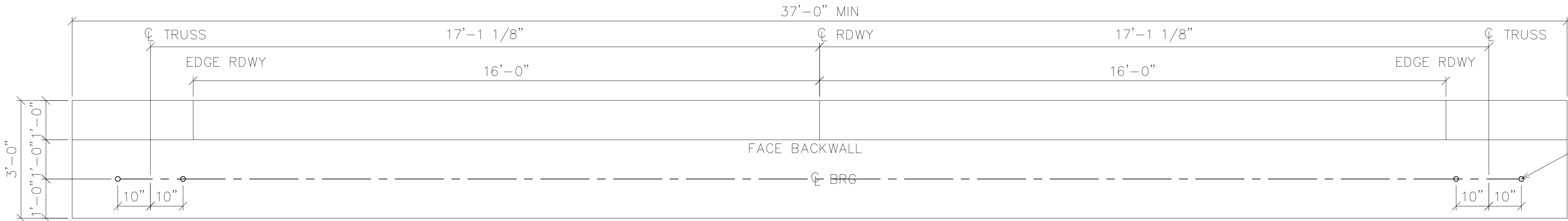
TOTAL



| | | | | | | | | | |
|---|--|-------------------|---------|-----|-------|------------|---|---|--|
| <div>SYMBOLS & ABBREVIATIONS</div> <div>ES: EACH SIDE EQ: EQUAL CL: CENTERLINE REF: REFERENCE CHK: CHECK O/O: OUT TO OUT C/C: CENTER TO CENTER F/F: FACE TO FACE DIA/Ø: DIAMETER R: RADIUS</div> <div>NS: NEAR SIDE FS: FAR SIDE WP/◆: WORK POINT GA: GAUGE ID: INSIDE DIAMETER OD: OUTSIDE DIAMETER BRG: BEARING TYP: TYPICAL UNO: UNLESS NOTED OTHERWISE ABUT: ABUTMENT T&B: TOP & BOTTOM</div> | <div>DIST. BY:</div> <div></div> <div>FAB. BY:</div> <div></div> | SUBMITTAL LOG | DATE | NO. | DATE: | REVISIONS: | BY: | <div>MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS</div> <div>ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.:</div> | |
| | | INITIAL SUBMITTAL | 6-16-11 | △ | | | | | |
| | | RESUBMITTAL NO. | - | △ | | | | | |
| | | CUSTOMER APPROVAL | - | △ | | | | | |
| | | SHOP REVIEW | 6-16-11 | △ | | | | | |
| | | PRE FAB MTG | - | △ | | | | | |
| | | APPROVED FOR FAB | - | △ | | | | | |
| <div>DESIGN: SAF</div> <div>DRAW: CRM</div> <div>REVIEW: DLM</div> <div>CHECK: AEC</div> <div>CONSTRUCTION PLANS / TRANSVERSE SECTION</div> | | | | | | | <div>SHEET</div> <div>3b</div> <div>22</div> <div>TOTAL</div> | | |
| <div>USB JOB# 50462</div> | | | | | | | | | |

DATE PLOTTED June 16, 2011

S:\JOBS\ARKANSAS\50462-Contech-Miles Creek Br Replacement-80 x 32 Weathering Truss\Drawings\Miles Creek.dwg



SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
EQ: EQUAL
CL: CENTERLINE
REF: REFERENCE
CHK: CHECK
O\O: OUT TO OUT
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GA: GAUGE
ID: INSIDE DIAMETER
OD: OUTSIDE DIAMETER
BRG: BEARING
TYP: TYPICAL
UNO: UNLESS NOTED OTHERWISE
ABUT: ABUTMENT
T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

| | | | | | |
|-------------------|---------|---|--|--|--|
| INITIAL SUBMITTAL | 6-16-11 | ▲ | | | |
| RESUBMITTAL NO. | - | ▲ | | | |
| CUSTOMER APPROVAL | - | ▲ | | | |
| SHOP REVIEW | 6-16-11 | ▲ | | | |
| PRE FAB MTG | - | ▲ | | | |
| APPROVED FOR FAB | - | ▲ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM

REVIEW: DLM
ABUTMENTS

CHECK: AEC
USB JOB#
50462

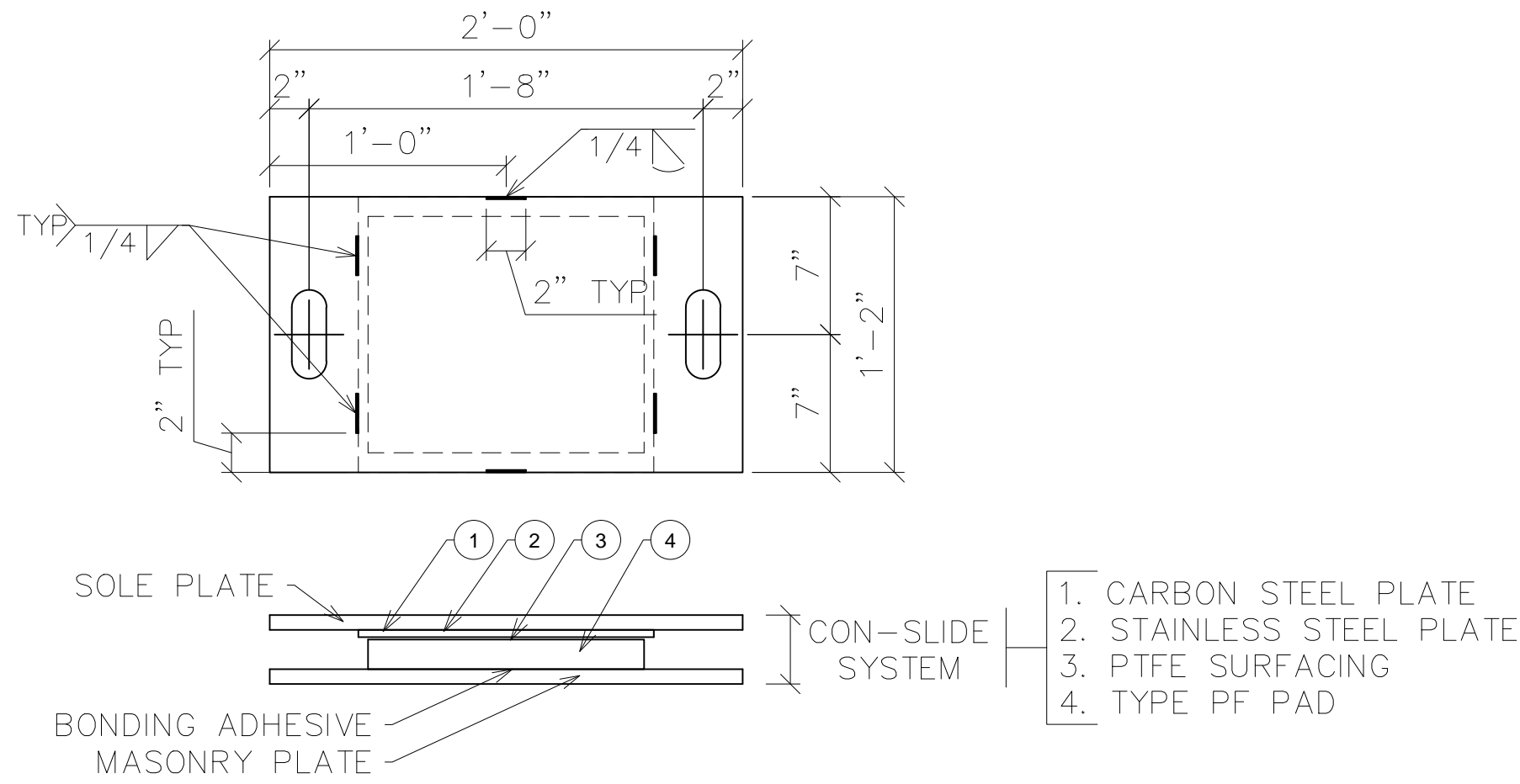
SHEET

4

22

TOTAL

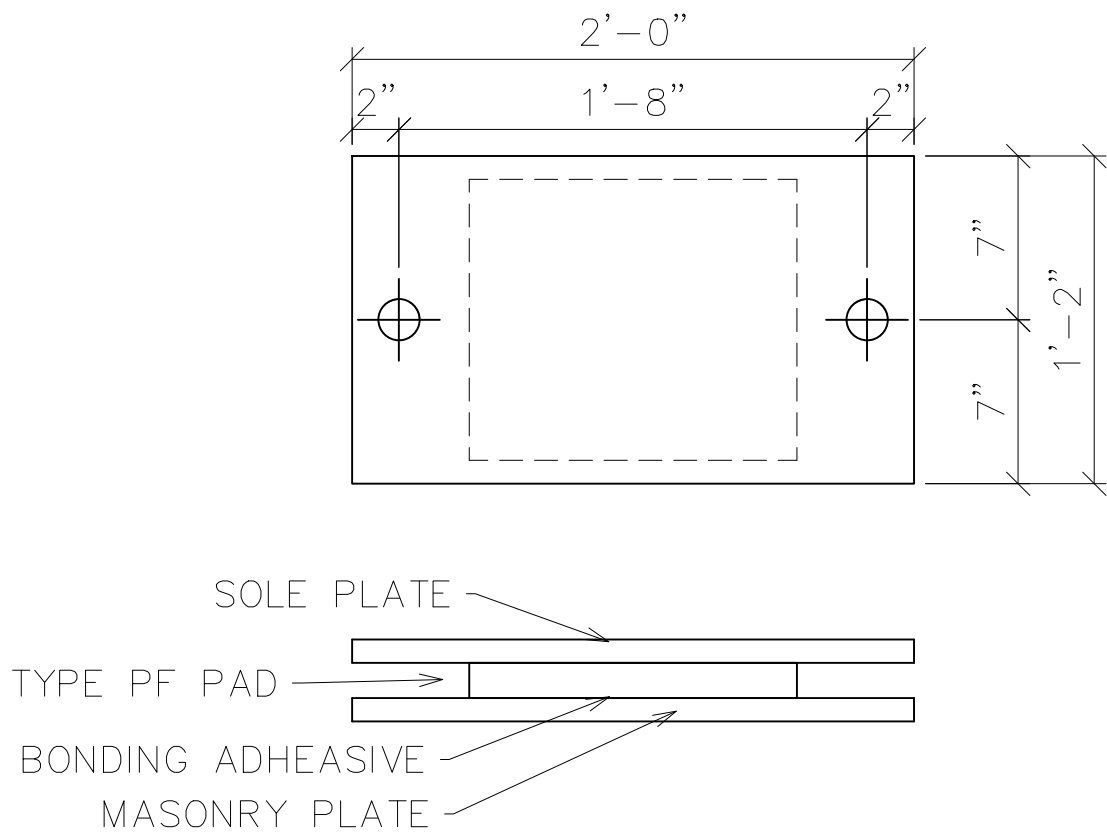
DATE PLOTTED June 16, 2011



EXP TRUSS BEARINGS PLATES – 2 ASSY

EXPANSION BEARINGS

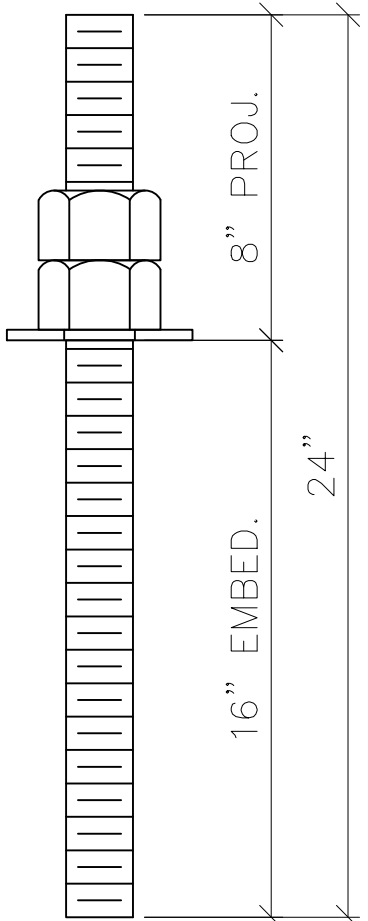
- 1 PC.– SOLE PLATE R $\frac{3}{4}$ "X14"X24" W/ 1 $\frac{3}{4}$ "ØX4 $\frac{1}{2}$ " SLOTTED HOLES
1 PC.– SLIDING PLATE R $\frac{3}{8}$ "X14"X15"–CARBON STEEL W/ 20 GA. STAINLESS STEEL PLATE BONDED TO THE BOTTOM
1 PC.– CON-SLIDE PADS 1 $\frac{1}{2}$ "X12"X14" W/PTFE SURFACING
1 PC.– MASONRY PLATE R $\frac{3}{4}$ "X14"X24" W/ 1 $\frac{3}{4}$ "Ø HOLES
NOTE: TYPE PF PAD TO BE BONDED TO MASONRY PLATE WITH AND EPOXY ADHESIVE (LORD TWO PART EPOXY ADHESIVE, 310A AND 310B)



FIXED TRUSS BEARINGS PLATES – 2 ASSY

FIXED BEARINGS

- 1 PC.– SOLE PLATE R1"X14"X24" W/ 1 $\frac{3}{4}$ "Ø HOLES
1 PC.– CON-SLIDE PADS 1 $\frac{1}{2}$ "X12"X14"
1 PC.– MASONRY PLATE R1"X14"X24" W/ 1 $\frac{3}{4}$ "Ø HOLES
NOTE: TYPE PF PAD TO BE BONDED TO MASONRY PLATE WITH AN EPOXY ADHESIVE (LORD TWO PART EPOXY ADHESIVE, 310A AND 310B)



8 – TRUSS ANCHOR BOLT – AB1

1 $\frac{1}{2}$ "Ø A449
ALL THREAD GALV.
ROD WITH 2 NUTS
& ONE R $\frac{1}{4}$ "X4"X6" WASHER

S:\JOBS\ARKANSAS\50462-Contech-Miles Creek Br.Replacement-80 x 32 Weathering Truss\Drawings\Miles Creek.dwg

SYMBOLS & ABBREVIATIONS

| | |
|-----------------------|-----------------------------|
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| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/Ø: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
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| | T&B: TOP & BOTTOM |

DIST. BY:



FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

| | | | | | |
|-------------------|---------|---|--|--|--|
| INITIAL SUBMITTAL | 6-16-11 | △ | | | |
| RESUBMITTAL NO. | - | △ | | | |
| CUSTOMER APPROVAL | - | △ | | | |
| SHOP REVIEW | 6-16-11 | △ | | | |
| PRE FAB MTG | - | △ | | | |
| APPROVED FOR FAB | - | △ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM

REVIEW: DLM
ABUTMENTS

CHECK: AEC
USB JOB#
50462

SHEET

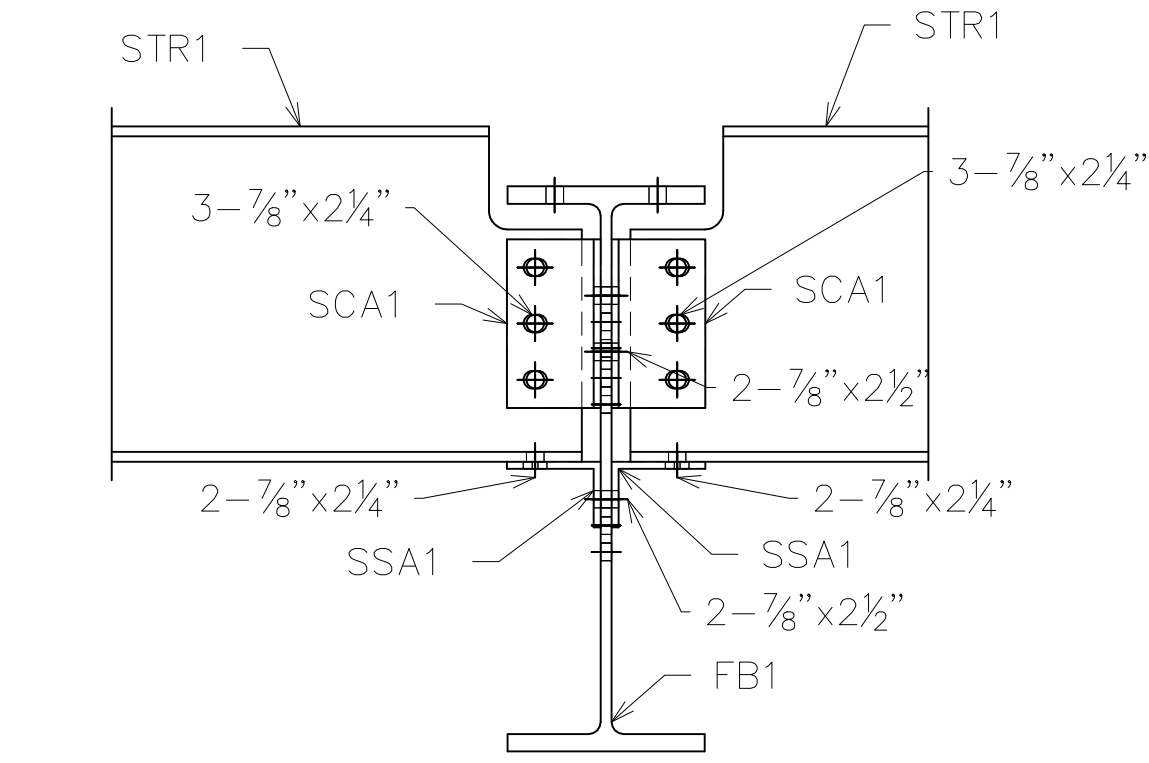
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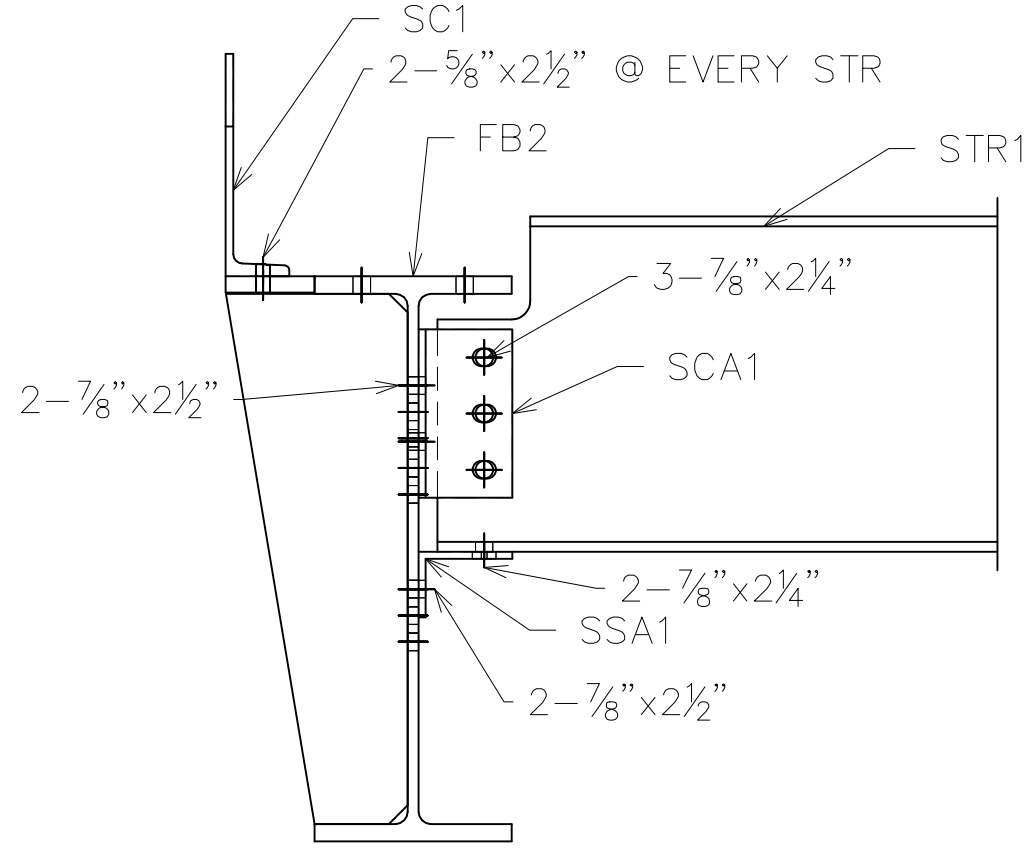
TOTAL

DATE PLOTTED June 16, 2011

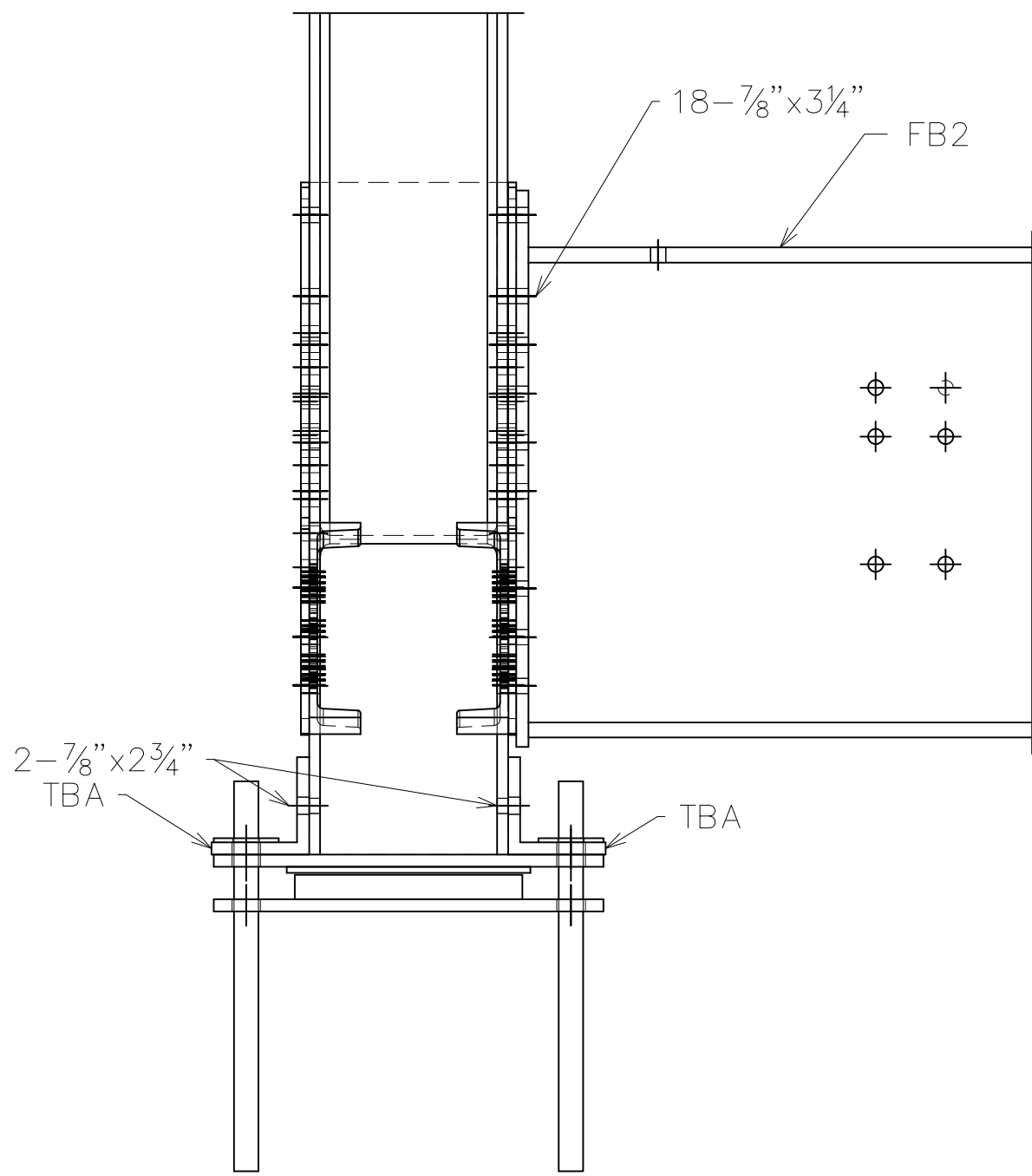
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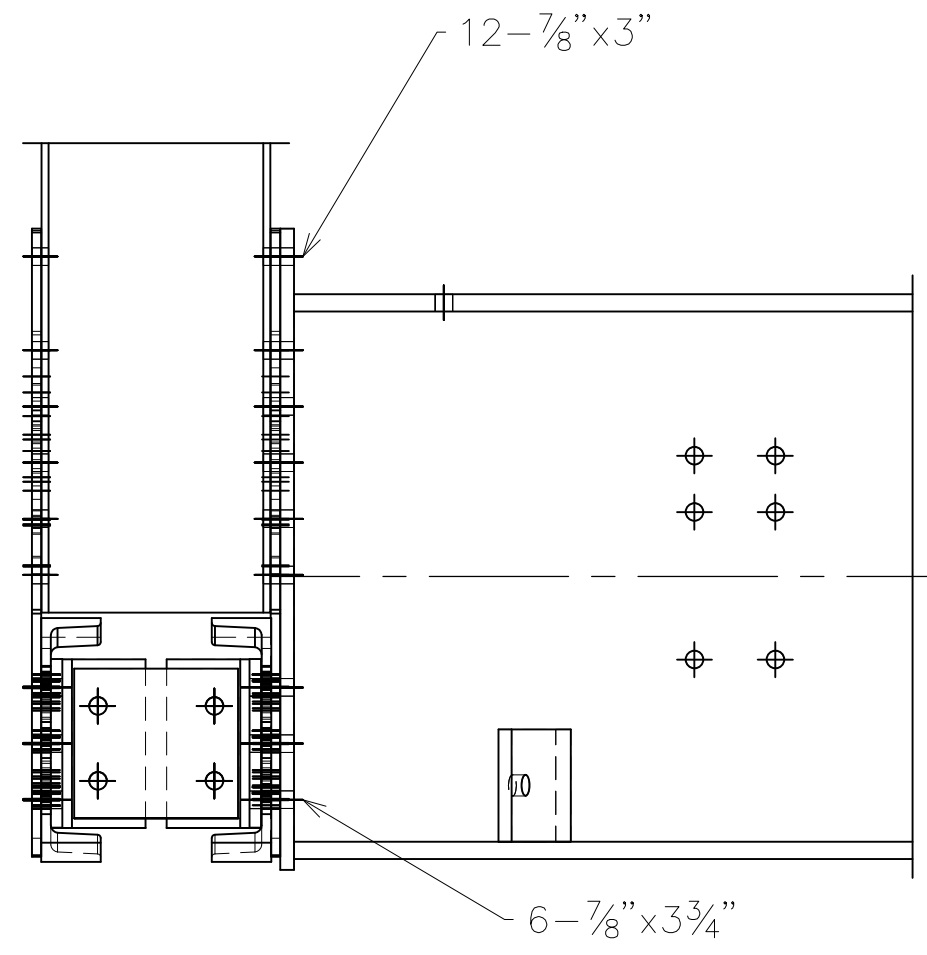
STR TO FB1 CONNECTION



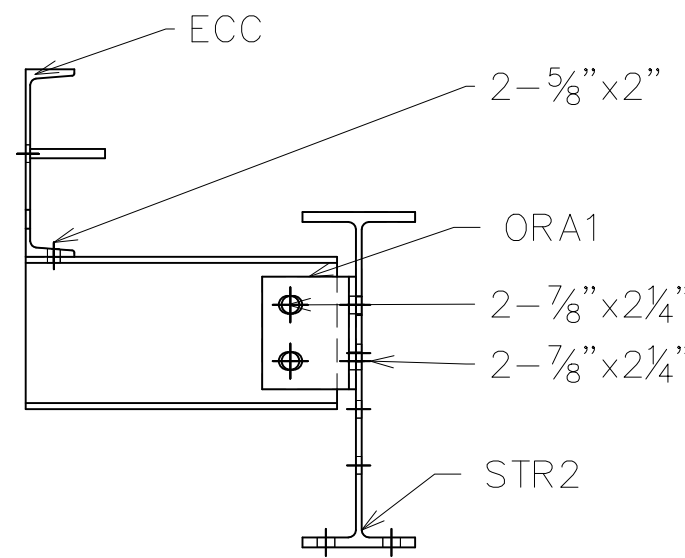
STR TO FB2 CONNECTION



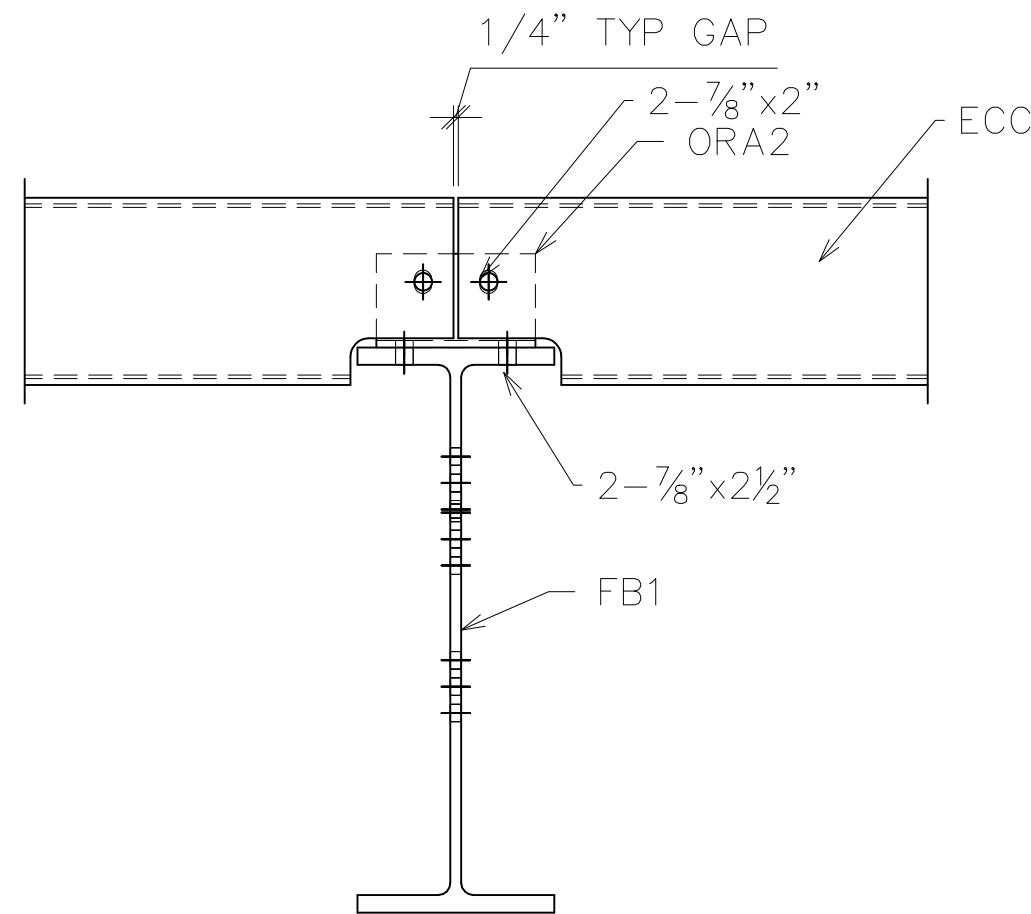
FB TO TRUSS AT SHOE CONNECTION



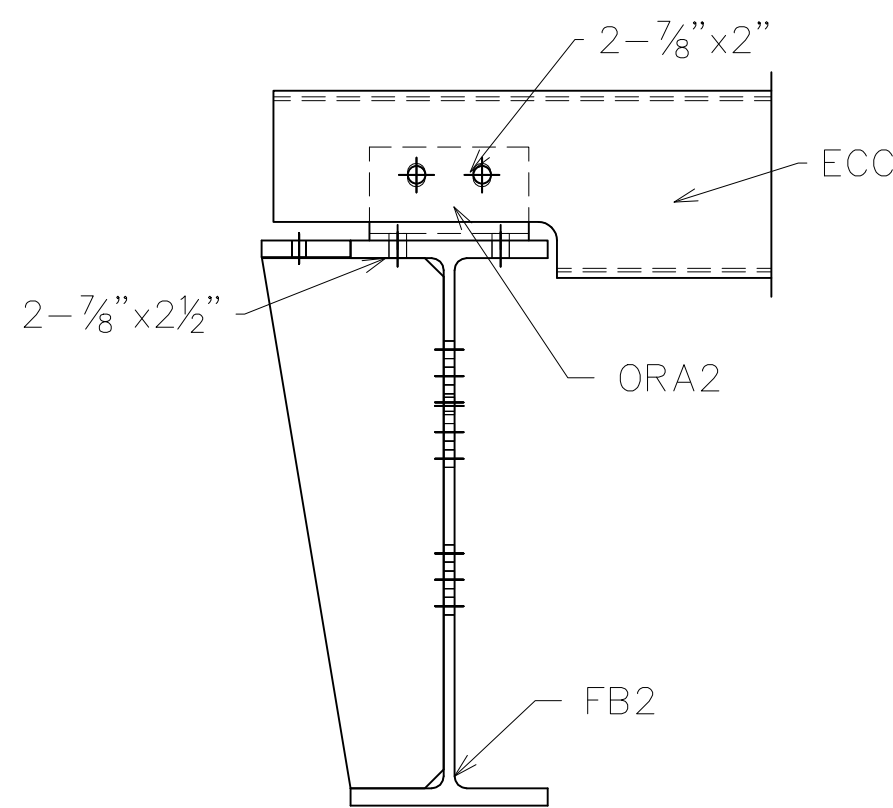
FB TO TRUSS CONNECTION



OR TO STR CONNECTION



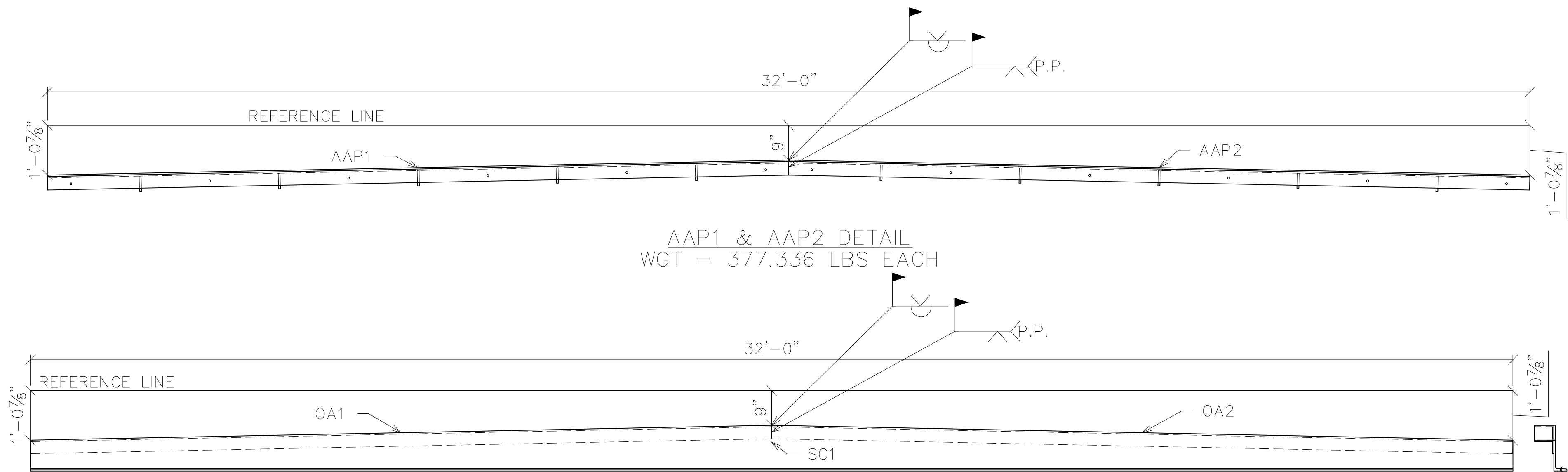
ECC TO FB1 CONNECTION



ECC TO FB2 CONNECTION

| BOLT CHART FIELD ASSEMBLY | 7/8" A325 [TYPE 3 WEATHERING] | | | | | | | | | |
|----------------------------------|-------------------------------|--------|--------|--------|-----|--------|--------|--------|----|--|
| LOCATION | 2" | 2 1/4" | 2 1/2" | 2 3/4" | 3" | 3 1/4" | 3 1/2" | 3 3/4" | 4" | |
| TBA TO TRUSS | | | | 16 | | | | | | |
| FBEP TO TRUSS VERT | | | | | 120 | | | | | |
| FBEP TO GUSSET TO TRUSS BC TO WT | | | | | | | | 60 | | |
| FBEP TO GUSSET TO TRUSS SHOE | | | | | | 72 | | | | |
| SCA1 TO STR TO SCA1 | | 216 | | | | | | | | |
| SSA1 TO STR | | 144 | | | | | | | | |
| SSA1 TO FB1 TO SSA1 | | | 60 | | | | | | | |
| SCA1 TO FB TO SCA1 | | | 120 | | | | | | | |
| SSA1 TO FB2 | | | 24 | | | | | | | |
| SCA1 TO FB2 | | | 48 | | | | | | | |
| ORA TO OR TO ORA | | 24 | | | | | | | | |
| ORA TO STR | | 48 | | | | | | | | |
| ORA TO FB | | | 28 | | | | | | | |
| ORA TO ECC | 28 | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL | 28 | 432 | 280 | 16 | 120 | 72 | 0 | 60 | 0 | |

| BOLT CHART FIELD ASSEMBLY | 5/8" A325 [TYPE 3 WEATHERING] | | | | | | | | |
|---------------------------|-------------------------------|--------|--------|--------|----|--------|--------|--------|----|
| LOCATION | 2" | 2 1/4" | 2 1/2" | 2 3/4" | 3" | 3 1/4" | 3 1/2" | 3 3/4" | 4" |
| ECC TO OR | 24 | | | | | | | | |
| SC TO FB2 | | | 24 | | | | | | |
| | | | | | | | | | |
| TOTAL | 24 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |



OA1 & OA2 TO SC CONNECTION
WGT = 977.093 LBS EACH

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
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REF: REFERENCE
CHK: CHECK
O\O: OUT TO OUT
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F\F: FACE TO FACE
DIA/Ø: DIAMETER
R: RADIUS
NS: NEAR SIDE
FS: FAR SIDE
WP/◆: WORK POINT
GA: GAUGE
ID: INSIDE DIAMETER
OD: OUTSIDE DIAMETER
BRG: BEARING
TYP: TYPICAL
UNO: UNLESS NOTED OTHERWISE
ABUT: ABUTMENT
T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

INITIAL SUBMITTAL
RESUBMITTAL NO.
CUSTOMER APPROVAL
SHOP REVIEW
PRE FAB MTG
APPROVED FOR FAB

DATE

6-16-11
-
-
6-16-11
-
-

NO:

△
△
△
△
△
△

DATE:

REVISIONS:

BY:

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM

REVIEW: DLM

CHECK: AEC

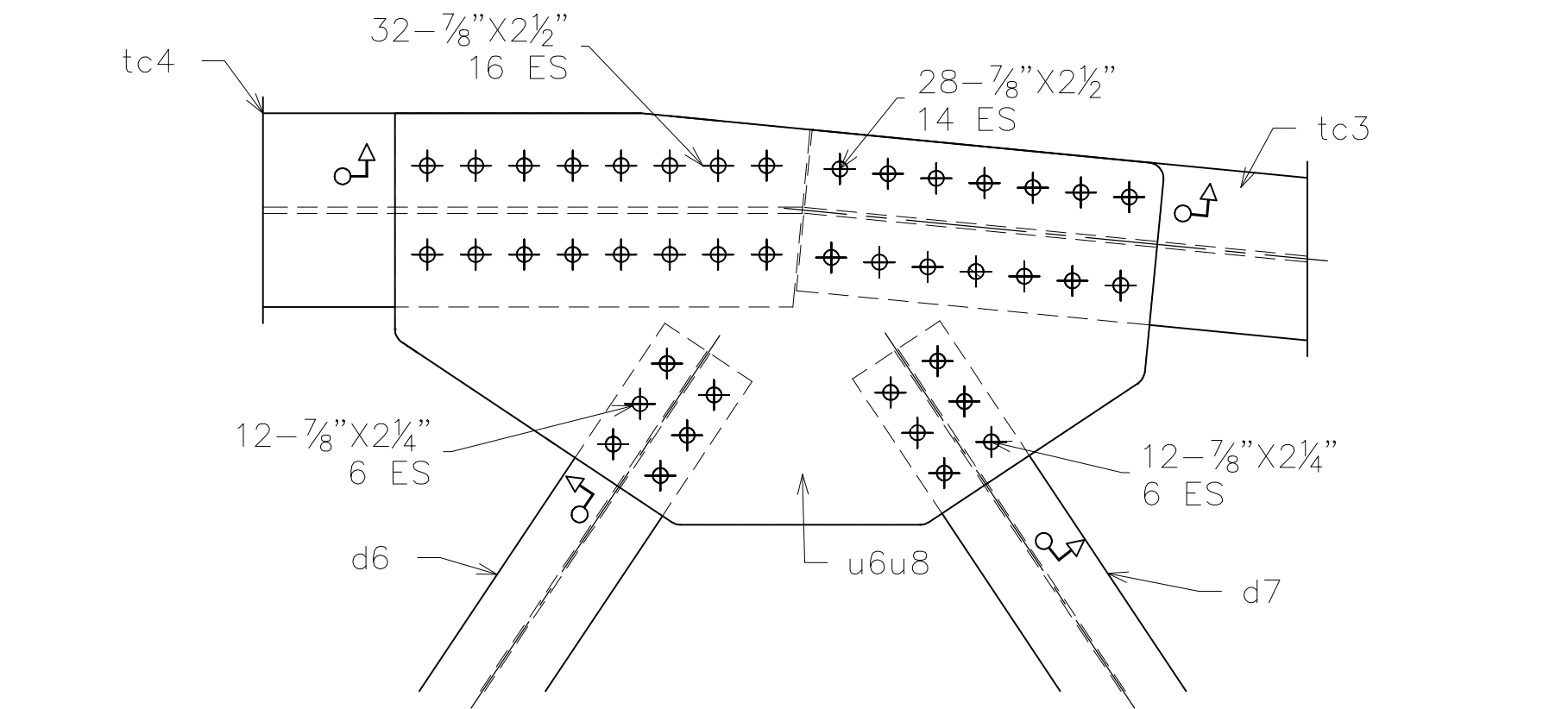
USB JOB#
50462

SHEET

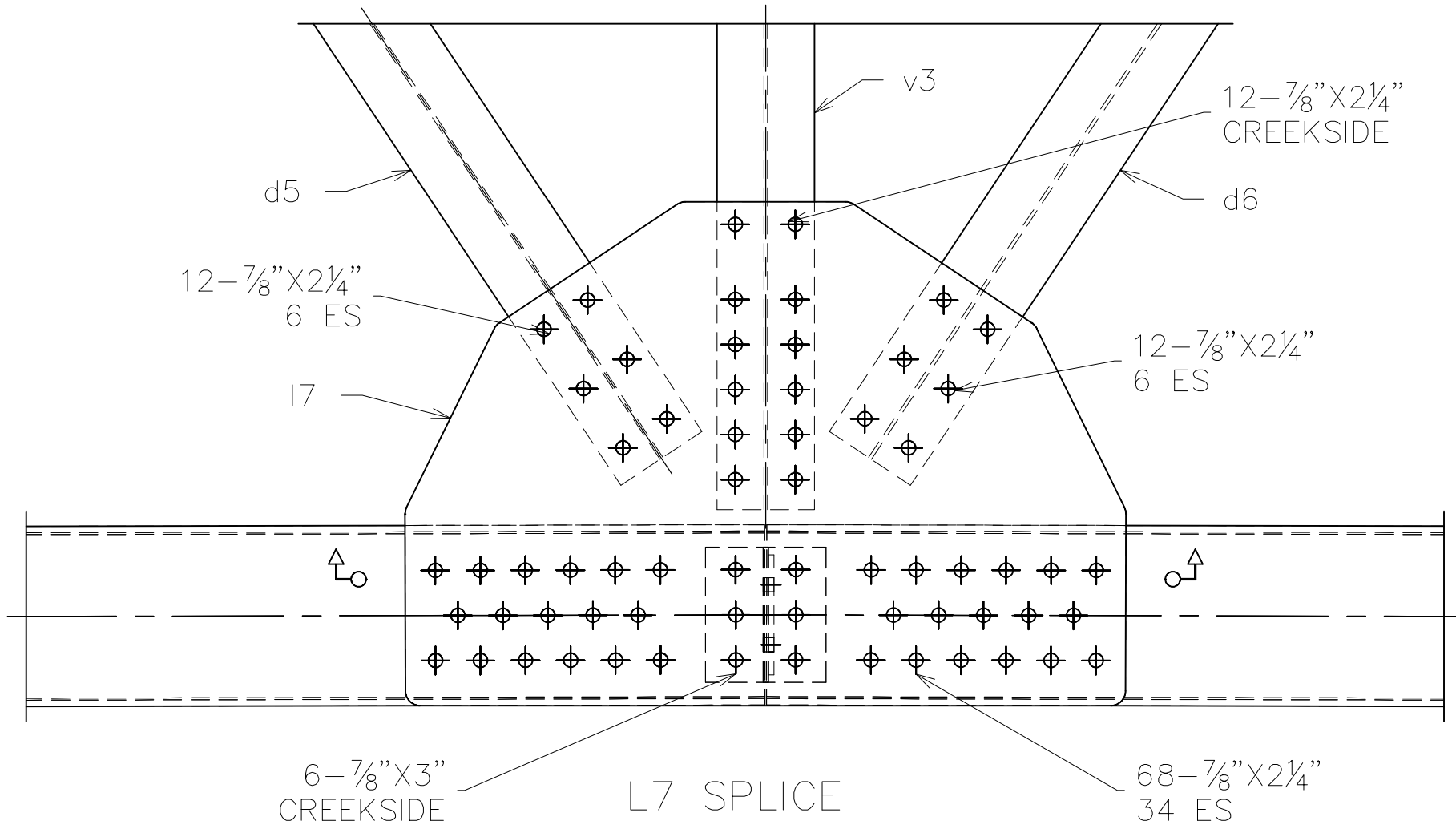
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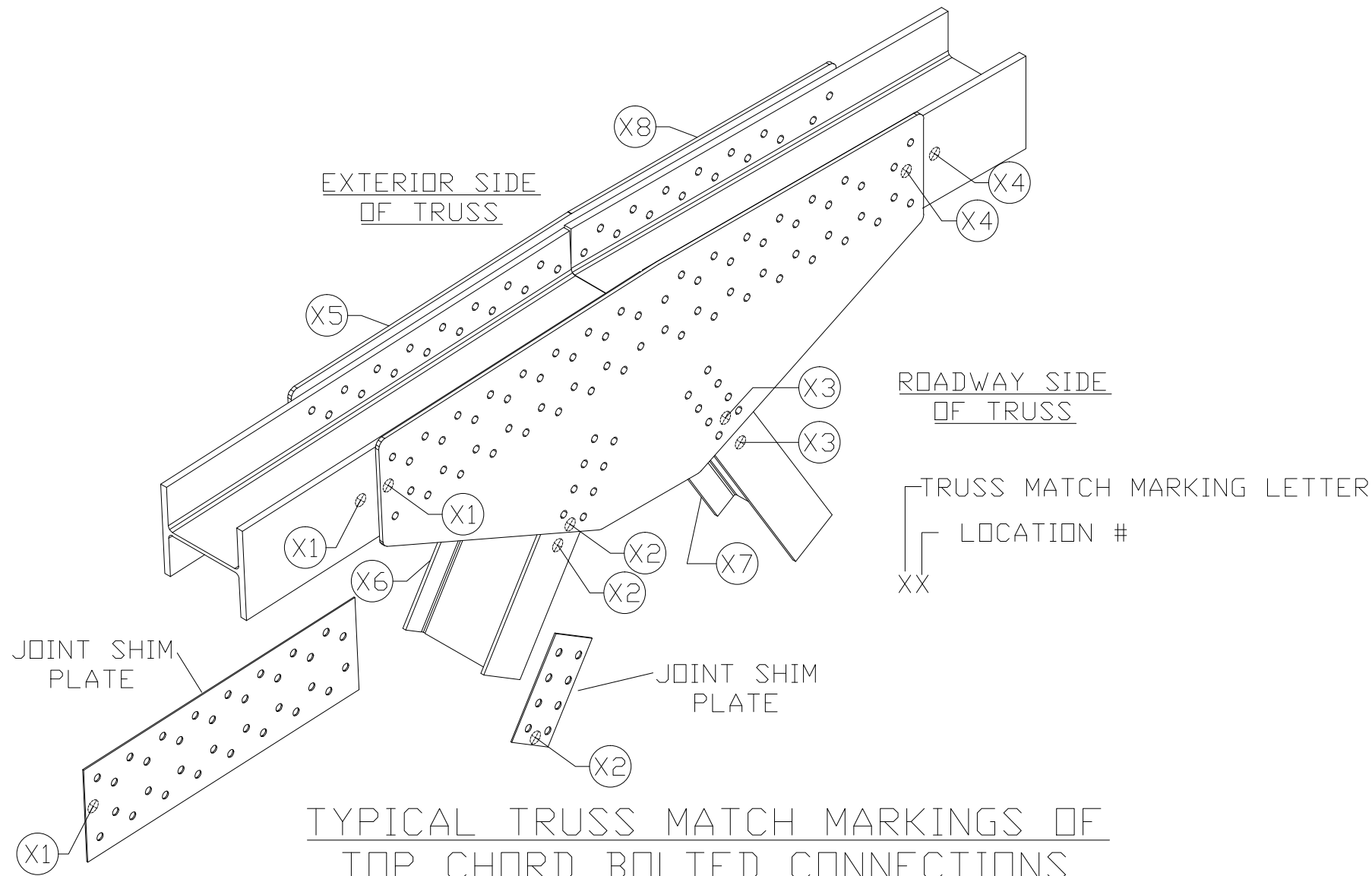
TOTAL



U8 SPLICE

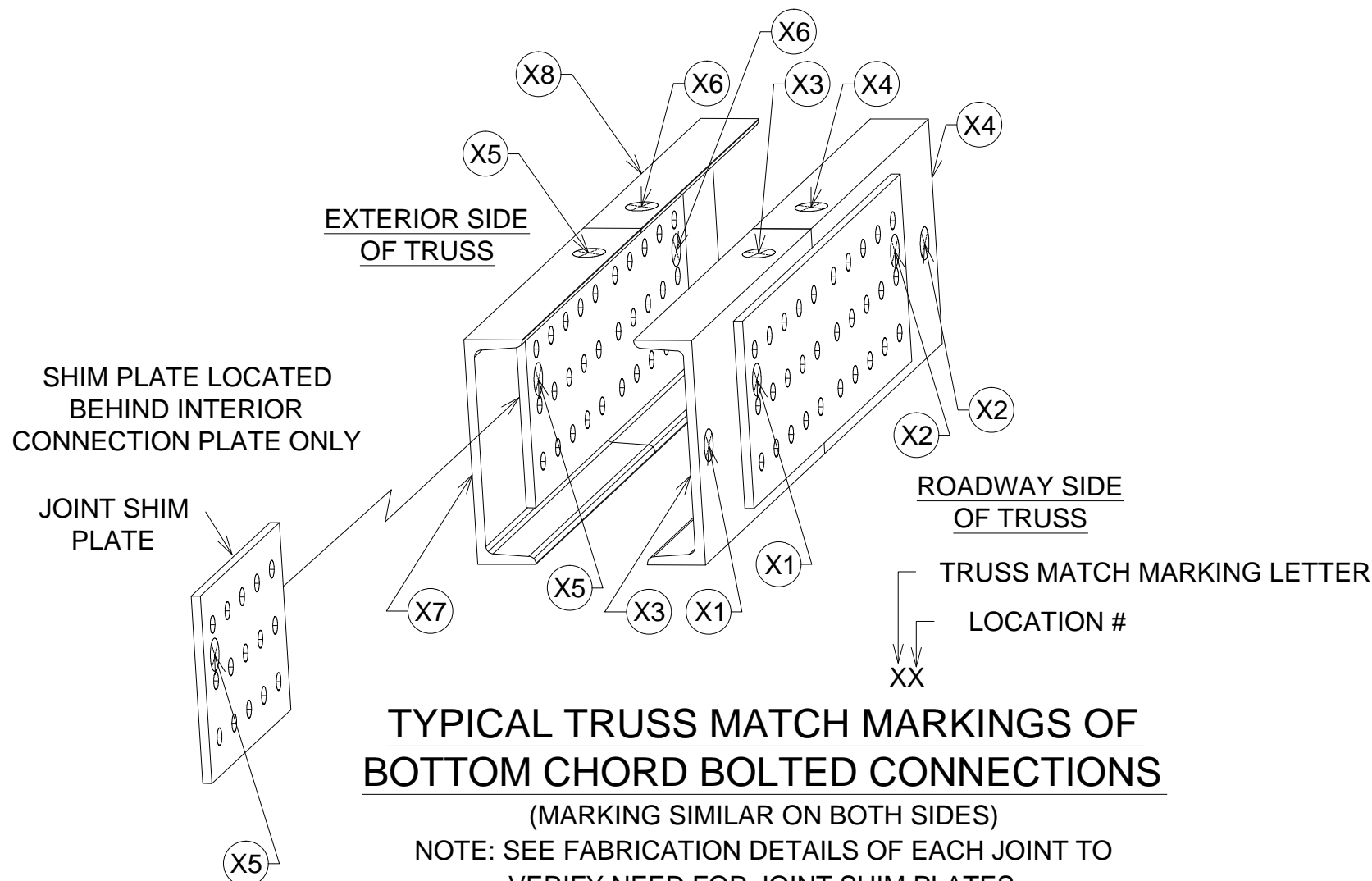


L7 SPLICE



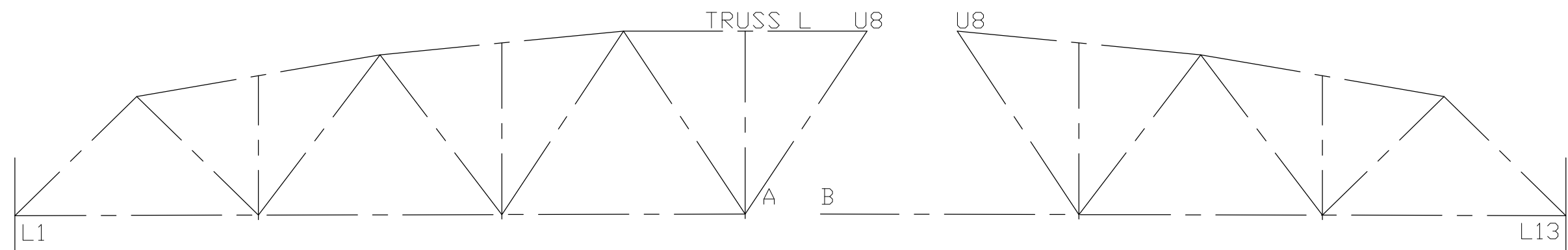
TYPICAL TRUSS MATCH MARKINGS OF TOP CHORD BOLTED CONNECTIONS

(MARKING SIMILAR ON BOTH SIDES)
NOTE: SEE FABRICATION DETAILS OF EACH JOINT TO VERIFY NEED FOR JOINT SHIM PLATES.



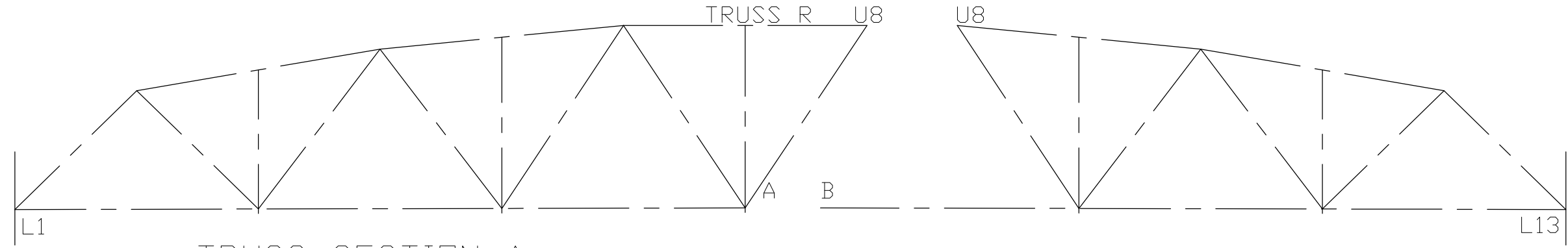
TYPICAL TRUSS MATCH MARKINGS OF BOTTOM CHORD BOLTED CONNECTIONS

(MARKING SIMILAR ON BOTH SIDES)
NOTE: SEE FABRICATION DETAILS OF EACH JOINT TO VERIFY NEED FOR JOINT SHIM PLATES.



TRUSS SECTION A
SEC. LIFT WEIGHT=11078.91 LBS

TRUSS SECTION B
SEC. LIFT WEIGHT=8780.46 LBS
(ROADWAY SIDE FACING UP)



TRUSS SECTION A
SEC. LIFT WEIGHT=11078.91 LBS

TRUSS SECTION B
SEC. LIFT WEIGHT=8780.46 LBS
(ROADWAY SIDE FACING DOWN)

TRUSS MATCH MARKINGS

NOTE- MATCH MARK LETTERS STAMPED ON BOTTOM CHORD CHANNELS & GUSSET PLATES AT CONNECTIONS WITH 1/2" LETTER STAMPS.

TOTAL LIFTING WEIGHT INCLUDING SPLICE PLATES AND BOLTS = 19860 LBS

| BOLT CHART FIELD ASSEMBLY | 7/8" A325 [TYPE 3 WEATHERING] | | | | | | | | |
|------------------------------------|-------------------------------|--------|--------|--------|----|--------|--------|--------|----|
| LOCATION | | | | | | | | | |
| | 2" | 2 1/4" | 2 1/2" | 2 3/4" | 3" | 3 1/4" | 3 1/2" | 3 3/4" | 4" |
| U8 TC | | | 56 | | | | | | |
| TC | | | 64 | | | | | | |
| U8 DIAG | | 48 | | | | | | | |
| L7 GUSSET TO BC | | 136 | | | | | | | |
| L7 GUSSET TO VERT CREEK SIDE | | 24 | | | | | | | |
| L7 GUSSET TO BC TO BCWT CREEK SIDE | | | | | 12 | | | | |
| L7 GUSSET TO DIAG | | 48 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL | 0 | 256 | 120 | 0 | 12 | 0 | 0 | 0 | 0 |

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
EQ: EQUAL
CL: CENTERLINE
REF: REFERENCE
CHK: CHECK
O/O: OUT TO OUT
C/C: CENTER TO CENTER
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DIA/Ø: DIAMETER
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OD: OUTSIDE DIAMETER
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DIST. BY:



FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

| | | | | | |
|-------------------|---------|---|--|--|--|
| INITIAL SUBMITTAL | 6-16-11 | ▲ | | | |
| RESUBMITTAL NO. | - | ▲ | | | |
| CUSTOMER APPROVAL | - | ▲ | | | |
| SHOP REVIEW | 6-16-11 | ▲ | | | |
| PRE FAB MTG | - | ▲ | | | |
| APPROVED FOR FAB | - | ▲ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

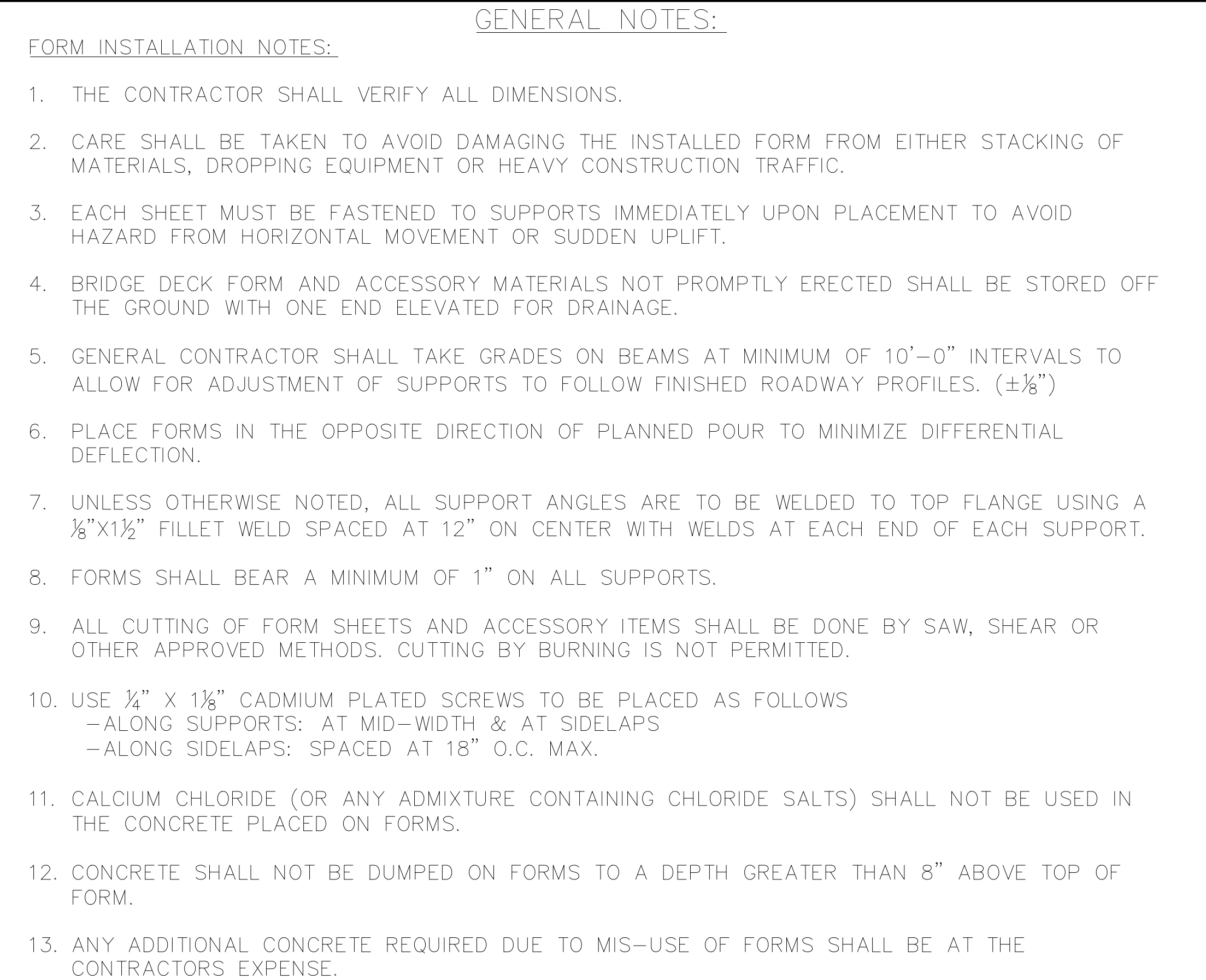
ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:



DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM
FIELD ASSEMBLY

REVIEW: DLM
CHECK: AEC
USB JOB#
50462

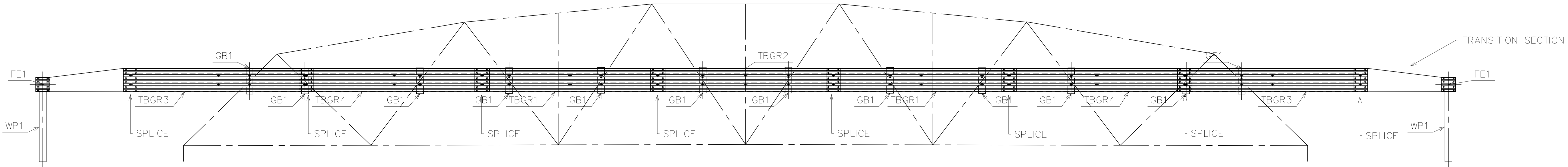
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TOTAL



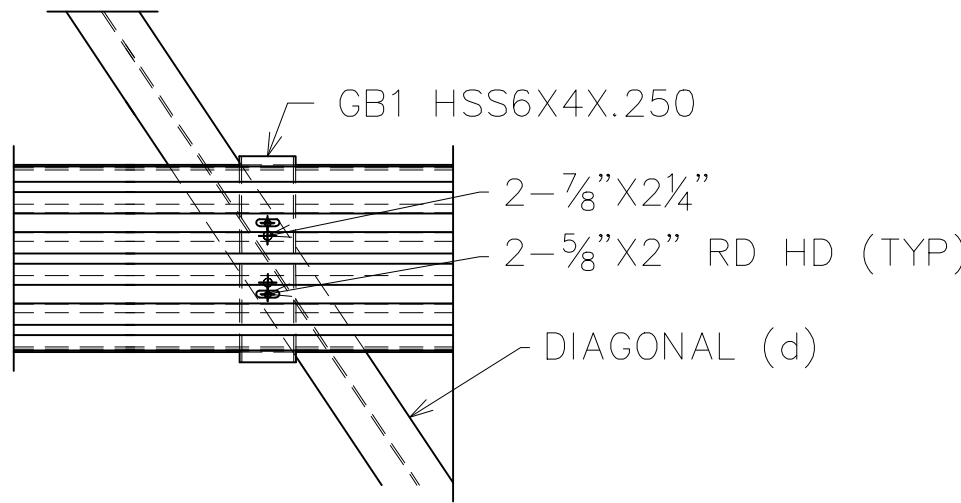
| SYMBOLS & ABBREVIATIONS ES: EACH SIDE EQ: EQUAL CL: CENTERLINE REF: REFERENCE CHK: CHECK O\O: OUT TO OUT C\C: CENTER TO CENTER F\F: FACE TO FACE DIA/Ø: DIAMETER R: RADIUS NS: NEAR SIDE FS: FAR SIDE WP/◆: WORK POINT GA: GAUGE ID: INSIDE DIAMETER OD: OUTSIDE DIAMETER BRG: BEARING TYP: TYPICAL UNO: UNLESS NOTED OTHERWISE ABUT: ABUTMENT T&B: TOP & BOTTOM | DIST. BY:  www.contech-cpi.com | <table border="1"> <thead> <tr> <th>SUBMITTAL LOG</th> <th>DATE</th> <th>NO.</th> <th>DATE:</th> <th>REVISIONS:</th> <th>BY:</th> </tr> </thead> <tbody> <tr> <td>INITIAL SUBMITTAL</td> <td>6-16-11</td> <td>△</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RESUBMITTAL NO.</td> <td>-</td> <td>△</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CUSTOMER APPROVAL</td> <td>-</td> <td>△</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SHOP REVIEW</td> <td>6-16-11</td> <td>△</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PRE FAB MTG</td> <td>-</td> <td>△</td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPROVED FOR FAB</td> <td>-</td> <td>△</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | SUBMITTAL LOG | DATE | NO. | DATE: | REVISIONS: | BY: | INITIAL SUBMITTAL | 6-16-11 | △ | | | | RESUBMITTAL NO. | - | △ | | | | CUSTOMER APPROVAL | - | △ | | | | SHOP REVIEW | 6-16-11 | △ | | | | PRE FAB MTG | - | △ | | | | APPROVED FOR FAB | - | △ | | | | MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | FAB. BY:  | DESIGN: SAF DRAW: CRM REVIEW: DLM CHECK: AEC CONSTRUCTION PLANS / FLOORING PLAN USB JOB# 50462 | SHEET 6 / 22 TOTAL |
|--|---|---|---------------|-------|------------|-------|------------|-----|-------------------|---------|---|--|--|--|-----------------|---|---|--|--|--|-------------------|---|---|--|--|--|-------------|---------|---|--|--|--|-------------|---|---|--|--|--|------------------|---|---|--|--|--|--|---|--|--------------------------|
| | SUBMITTAL LOG | DATE | NO. | DATE: | REVISIONS: | BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | INITIAL SUBMITTAL | 6-16-11 | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RESUBMITTAL NO. | - | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CUSTOMER APPROVAL | - | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SHOP REVIEW | 6-16-11 | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRE FAB MTG | - | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED FOR FAB | - | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DATE PLOTTED June 16, 2011

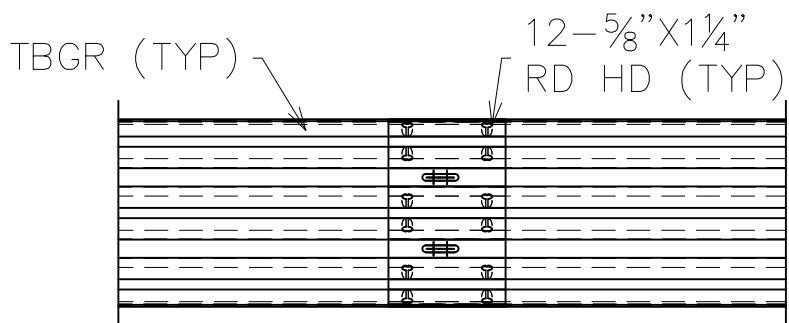
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GUARDRAIL LAYOUT



TYP GUARDRAIL BRACKET CONNECTION



TYP SPLICE CONNECTION

| BOLT CHART FIELD ASSEMBLY | 7/8" A325 [TYPE 1 GALV.] | | | | | | | | |
|---------------------------|--------------------------|--------|--------|--------|----|--------|--------|--------|----|
| | 2" | 2 1/4" | 2 1/2" | 2 3/4" | 3" | 3 1/4" | 3 1/2" | 3 3/4" | 4" |
| GB1 TO TRUSS | | 48 | | | | | | | |
| | | | | | | | | | |
| TOTAL | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| BOLT CHART FIELD ASSEMBLY | 5/8" A307 RD HD [GALV] | | | | | | | | |
|---------------------------|------------------------|----|--------|--------|----|--------|--------|--------|-----|
| | 1 1/4" | 2" | 2 1/4" | 2 1/2" | 3" | 3 1/4" | 3 1/2" | 3 3/4" | 10" |
| GUARDRAIL TO BRACKET | | 48 | | | | | | | |
| GUARDRAIL SPLICE | 192 | | | | | | | | |
| GUARDRAIL FLARED END | 32 | | | | | | | | |
| WOOD POST TO GUARDRAIL | | | | | | | | | 4 |
| TOTAL | 224 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE

EQ: EQUAL

CL: CENTERLINE

REF: REFERENCE

CHK: CHECK

O\O: OUT TO OUT

C\C: CENTER TO CENTER

F\F: FACE TO FACE

DIA/\Ø: DIAMETER

R: RADIUS

NS: NEAR SIDE

FS: FAR SIDE

WP/⬢: WORK POINT

GA: GAUGE

ID: INSIDE DIAMETER

OD: OUTSIDE DIAMETER

BRG: BEARING

TYP: TYPICAL

UNO: UNLESS NOTED OTHERWISE

ABUT: ABUTMENT

T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

| INITIAL SUBMITTAL | DATE | NO: | DATE: | REVISIONS: | BY: |
|-------------------|---------|-----|-------|------------|-----|
| RESUBMITTAL NO. | - | △ | | | |
| CUSTOMER APPROVAL | - | △ | | | |
| SHOP REVIEW | 6-16-11 | △ | | | |
| PRE FAB MTG | - | △ | | | |
| APPROVED FOR FAB | - | △ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF
CONSTRUCTION PLANS

DRAW: CRM

REVIEW: DLM

CHECK: AEC

USB JOB#
50462

SHEET

7

22

TOTAL

DATE PLOTTED June 16, 2011

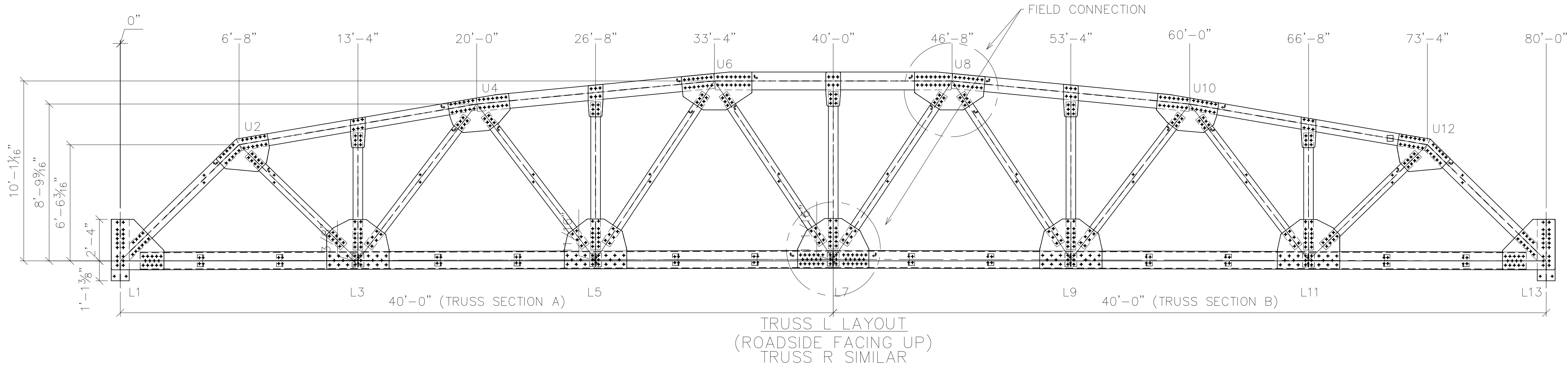
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| MATERIAL SCHEDULE | | | | | | | | |
|-------------------|-----|-------|-----------------------------------|--------------------------------|--------------|----------------|---------|---------|
| PC | QTY | PN | FAMILY | SECTION | LENGTH | GRADE | SURFACE | WGT |
| | | | | | | | FINISH | EACH |
| 2 | | aa1 | ABUTMENT ANGLE | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | WEATH | 166.4 |
| 2 | | aa2 | ABUTMENT ANGLE | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | WEATH | 166.4 |
| 4 | | aap1 | ABUTMENT ANGLE PLATE | Plate 3/8"x1" | 16'-0" | STEEL A588-50 | WEATH | 20.4 |
| 8 | | ab2 | 1 1/2" ANCHOR BOLT W/2N | AB 1 1/2 | 2'-0" | STEEL A449 | GALV | 11.7 |
| 1 | | abd1 | AS-BUILT DWGS | Plate 1/8"x1'-10" | 1'-5" | User | None | 13.3 |
| 8 | | abw2 | ANCHOR BOLT WASHER | Plate 1/4"x6" | 4" | STEEL A572-50 | GALV | 1.6 |
| 4 | | bc1 | BOTTOM CHORD | C12X30 | 38'-10 1/2" | STEEL A588-CVN | WEATH | 1166.3 |
| 4 | | bc2 | BOTTOM CHORD | C12X30 | 38'-10 1/2" | STEEL A588-CVN | WEATH | 1166.3 |
| 48 | | bcs1 | BOTTOM CHORD SPACER | L4X4X3/8 | 8" | STEEL A588-50 | WEATH | 6.5 |
| 20 | | bcwt1 | BOTTOM CHORD SPACER WT | W10X45 | 9" | STEEL A588-50 | WEATH | 33.8 |
| 4 | | bp1 | BEARING PLATE | Plate 3/4"x1'-2" | 2'-0" | STEEL A572-50 | GALV | 68.4 |
| 4 | | bp2 | BEARING PLATE | Plate 1"x1'-2" | 2'-0" | STEEL A572-50 | GALV | 93.9 |
| 2 | | cp1 | CLOSURE PLATE | Plate 7/8"x4 3/4" | 32'-11 1/2" | STEEL A588-50 | WEATH | 464.8 |
| 4 | | csp1 | CON-SLIDE PAD | Plate 1 1/2"x1'-2" | 1'-0" | User | None | 71.5 |
| 2 | | d1 | DIAGONAL BRACE | W12X26 | 7'-5 5/8" | STEEL A588-CVN | WEATH | 194.2 |
| 2 | | d2 | DIAGONAL BRACE | W12X26 | 9'-1 15/16" | STEEL A588-CVN | WEATH | 238.2 |
| 2 | | d3 | DIAGONAL BRACE | W12X26 | 9'-3 9/16" | STEEL A588-CVN | WEATH | 241.7 |
| 2 | | d4 | DIAGONAL BRACE | W12X26 | 10'-1 9/16" | STEEL A588-CVN | WEATH | 263.4 |
| 2 | | d5 | DIAGONAL BRACE | W12X26 | 10'-1 1/8" | STEEL A588-CVN | WEATH | 262.4 |
| 2 | | d6 | DIAGONAL BRACE | W12X26 | 10'-1 1/8" | STEEL A588-CVN | WEATH | 262.4 |
| 2 | | d7 | DIAGONAL BRACE | W12X26 | 10'-1 9/16" | STEEL A588-CVN | WEATH | 263.4 |
| 2 | | d8 | DIAGONAL BRACE | W12X26 | 9'-3 9/16" | STEEL A588-CVN | WEATH | 241.7 |
| 2 | | d9 | DIAGONAL BRACE | W12X26 | 9'-1 15/16" | STEEL A588-CVN | WEATH | 238.2 |
| 2 | | d10 | DIAGONAL BRACE | W12X26 | 7'-5 5/8" | STEEL A588-CVN | WEATH | 194.2 |
| 8 | | ecc1 | END CLOSURE CHANNEL | C10X15.3 | 13'-3 3/4" | STEEL A588-50 | WEATH | 203.7 |
| 2 | | ecc2 | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | STEEL A588-50 | WEATH | 215.8 |
| 2 | | ecc3 | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | STEEL A588-50 | WEATH | 215.8 |
| 5 | | fb1 | FLOOR BEAM | W30X124 | 32'-11 1/2" | STEEL A588-CVN | WEATH | 4086.8 |
| 2 | | fb2 | FLOOR BEAM | W30X124 | 32'-11 1/2" | STEEL A588-CVN | WEATH | 4086.8 |
| 14 | | fbep1 | FLOOR BEAM END PLATE | Plate 3/4"x10" | 2'-10 1/4" | STEEL A588-CVN | WEATH | 70.3 |
| 16 | | fe1 | FLARED END (STOCK) | GDRL 12x3 | 1'-0" | STEEL A500-46 | GALV | 6.6 |
| 24 | | gb1 | GUARDRAIL BLOCKOUT | HSS6X4X.250 | 1'-10" | STEEL A500-46 | GALV | 28.6 |
| 4 | | gtr1 | GUARDRAIL TRANSITION | TRANSITION | 6'-3" | STEEL A500-46 | GALV | 47.9 |
| 12 | | hcn1 | 1" HEX COUPLER NUT | HCN 1 | 5" | A563B | WEATH | 3.7 |
| 4 | | l7 | LOWER GUSSET | Plate 1/2"x2'-9 9/16" | 4'-0" | STEEL A588-CVN | WEATH | 183.3 |
| 8 | | l1i13 | LOWER GUSSET | Plate 1/2"x2'-10" | 2'-11 7/16" | STEEL A588-CVN | WEATH | 136.2 |
| 8 | | l3i11 | LOWER GUSSET | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | WEATH | 171.3 |
| 8 | | l5i9 | LOWER GUSSET | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | WEATH | 167.6 |
| 12 | | lr1 | LATERAL ROD 1" W/N & WSH | RB1 | 13'-9 11/16" | STEEL A588-50 | WEATH | 36.9 |
| 12 | | lr2 | LATERAL ROD 1" W/N & WSH | RB1 | 20'-0" | STEEL A588-50 | WEATH | 53.5 |
| 24 | | lrp1 | LATERAL ROD PLATE | Plate 3/4"x6" | 8 9/16" | STEEL A588-50 | WEATH | 10.5 |
| 6 | | lrub1 | U-BOLT W/2N 1 PL WASHER | RB3/8 | 5" | STEEL A572-50 | WEATH | 0.2 |
| 2 | | oa1 | OVER ANGLE | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | WEATH | 166.4 |
| 2 | | oa2 | OVER ANGLE | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | WEATH | 166.4 |
| 12 | | or1 | OUTRIGGER | W8X18 | 1'-4 5/8" | STEEL A588-50 | WEATH | 24.9 |
| 24 | | ora1 | OUTRIGGER ANGLE | L5X3-1/2X3/8 | 6" | STEEL A588-50 | WEATH | 5.2 |
| 14 | | ora2 | OUTRIGGER ANGLE | L5X3-1/2X3/8 | 8 1/2" | STEEL A588-50 | WEATH | 7.4 |
| 2 | | plaq1 | PLAQUE | Plate 1/8"x4" | 4" | STEEL | WEATH | 0.6 |
| 2 | | sc1 | SHELF CHANNEL | C15X33.9 | 32'-0" | STEEL A588-50 | WEATH | 1084.8 |
| 144 | | sca1 | STRINGER CONNECTION ANGLE | L5X3-1/2X3/8 | 9" | STEEL A588-50 | WEATH | 7.8 |
| 1221 | | scr1 | WHEELING SIP SD SCREW | SIP 1/4-14x1.125 (SD SCREW) | 1 1/8" | STEEL | None | 3.8e-03 |
| 4 | | shoe1 | SHOE | SIP 2.0x12 Ga (BP SUPPORT ANG) | 3'-5 3/8" | STEEL A588-50 | WEATH | 248.3 |
| 122 | | sip1 | WHEELING SIP ACCESORIES | SIP 2.0x12 Ga (BP SUPPORT ANG) | 10'-0" | STEEL | GALV | 6.1 |
| 140 | | sipf1 | WHEELING SIP FORMS (G235 COATING) | SIP 2.0x34x20 Ga (8.5P) | 5'-1 9/16" | STEEL | GALV | 36.4 |
| 6 | | sipf2 | WHEELING SIP FORMS (G235 COATING) | SIP 2.0x34x20 Ga (8.5P) | 12'-3 9/16" | STEEL | GALV | 88.9 |
| 34 | | sp1 | SPACER PLATE | Plate 3/8"x8" | 8 3/4" | STEEL A588-50 | WEATH | 7.2 |
| 72 | | ssa1 | STRINGER SEAT ANGLE | L5X3-1/2X3/8 | 7" | STEEL A588-50 | WEATH | 6.1 |
| 196 | | std1 | STUD 1/2"DIA x 4" | STD 1/2 | 4" | STEEL A108 | WEATH | 0.2 |
| 12 | | stp1 | STIFFENER PLATE | Plate 1/2"x9 7/16" | 2'-5 3/8" | STEEL A588-50 | WEATH | 29.3 |
| 24 | | str1 | STRINGER | W18X40 | 13'-1 7/16" | STEEL A588-CVN | WEATH | 524.7 |
| 12 | | str2 | STRINGER | W18X40 | 13'-1 7/16" | STEEL A588-CVN | WEATH | 524.7 |
| 4 | | tba1 | TRUSS BEARING ANGLE | L6X6X3/4 | 1'-2" | STEEL A588-50 | WEATH | 33.5 |
| 4 | | tba2 | TRUSS BEARING ANGLE | L6X6X3/4 | 1'-2" | STEEL A588-50 | WEATH | 33.5 |
| 4 | | tbgr1 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | STEEL | GALV | 168.9 |
| 2 | | tbgr2 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | STEEL | GALV | 168.9 |
| 4 | | tbgr3 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | STEEL | GALV | 168.9 |
| 4 | | tbgr4 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | STEEL | GALV | 168.9 |
| 2 | | tbsp1 | TRSS BRG SL PL W/20GA SS | Plate 3/8"x1'-2" | 1'-3" | User | None | 22.3 |
| 2 | | tc1 | TOP CHORD | W12X50 | 9'-0 7/16" | STEEL A588-50 | WEATH | 451.7 |
| 4 | | tc2 | TOP CHORD | W12X50 | 13'-7 3/4" | STEEL A588-50 | WEATH | 682.2 |
| 4 | | tc3 | TOP CHORD | W12X58 | 13'-4 5/8" | STEEL A588-50 | WEATH | 776.4 |
| 2 | | tc4 | TOP CHORD | W12X65 | 13'-4 13/16" | STEEL A588-50 | WEATH | 871.2 |
| 2 | | tc5 | TOP CHORD | W12X50 | 9'-0 7/16" | STEEL A588-50 | WEATH | 451.7 |

| MATERIAL SCHEDULE | | | | | | | | |
|-------------------|-----|-------|----------------|-------------------------|-------------|---------------|---------|-------|
| PC | QTY | PN | FAMILY | SECTION | LENGTH | GRADE | SURFACE | WGT |
| | | | | | | | FINISH | EACH |
| | 4 | u7 | UPPER GUSSET | Plate 1/2"x10" | 1'-11" | STEEL A588-50 | WEATH | 30.3 |
| | 8 | u2u12 | UPPER GUSSET | Plate 1/2"x2'-1 15/16" | 2'-10 3/4" | STEEL A588-50 | WEATH | 87.6 |
| | 8 | u3u11 | UPPER GUSSET | Plate 1/2"x10 5/16" | 1'-9 1/8" | STEEL A588-50 | WEATH | 25.6 |
| | 8 | u4u10 | UPPER GUSSET | Plate 1/2"x1'-10 15/16" | 3'-5 1/2" | STEEL A588-50 | WEATH | 110.0 |
| | 8 | u5u9 | UPPER GUSSET | Plate 1/2"x10" | 1'-9 7/8" | STEEL A588-50 | WEATH | 27.9 |
| | 8 | u6u8 | UPPER GUSSET | Plate 1/2"x2'-1 1/8" | 3'-11 3/4" | STEEL A588-50 | WEATH | 135.0 |
| | 4 | v1 | VERTICAL BRACE | W12X26 | 6'-6 13/16" | STEEL A588-50 | WEATH | 170.8 |
| | 4 | v2 | VERTICAL BRACE | W12X26 | 8'-3 1/4" | STEEL A588-50 | WEATH | 215.0 |
| | 2 | v3 | VERTICAL BRACE | W12X26 | 8'-10" | STEEL A588-50 | WEATH | 229.7 |
| | 4 | wp1 | WOOD POST | RB6 | 6'-0" | WOOD | Wood | 577.3 |

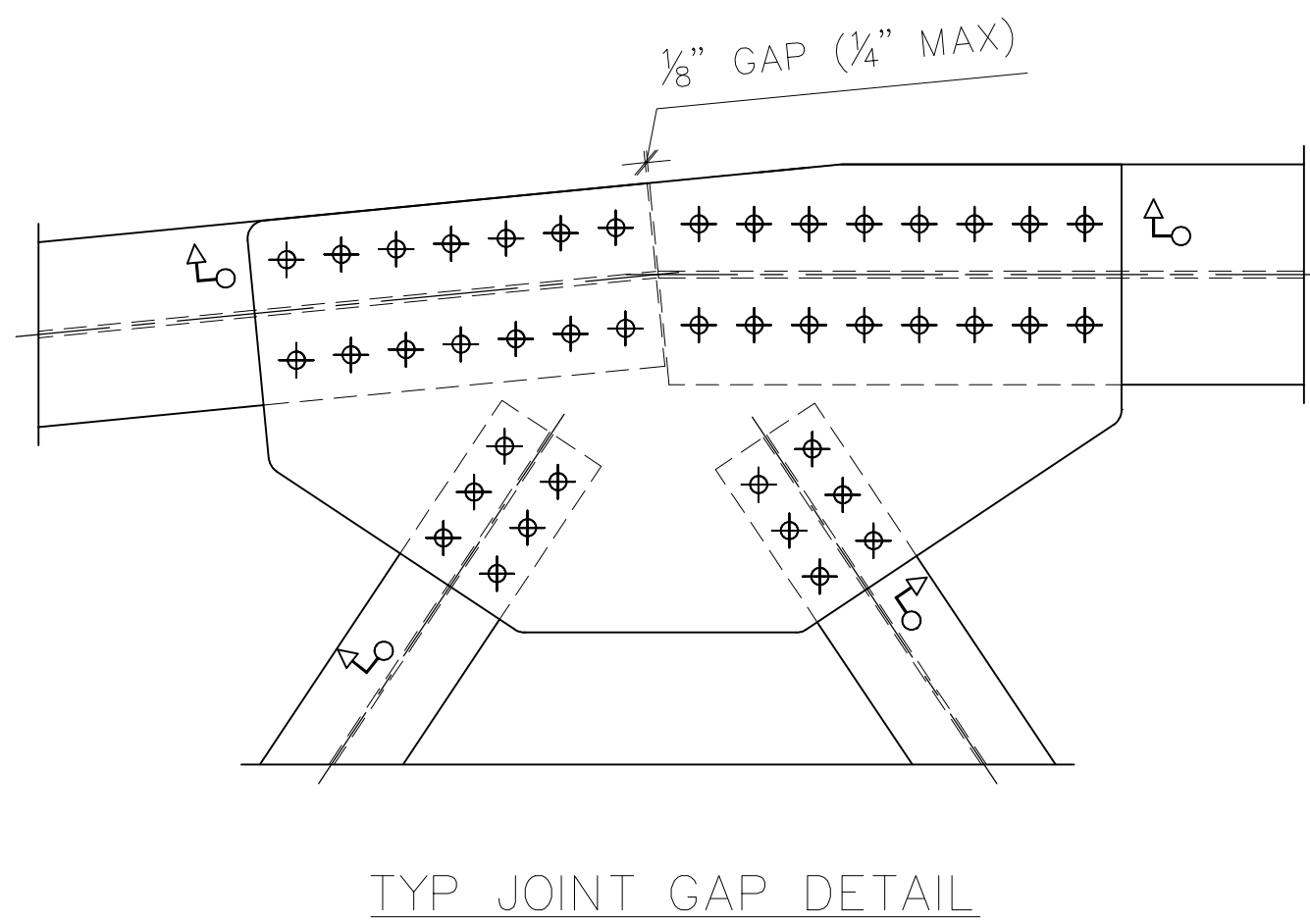
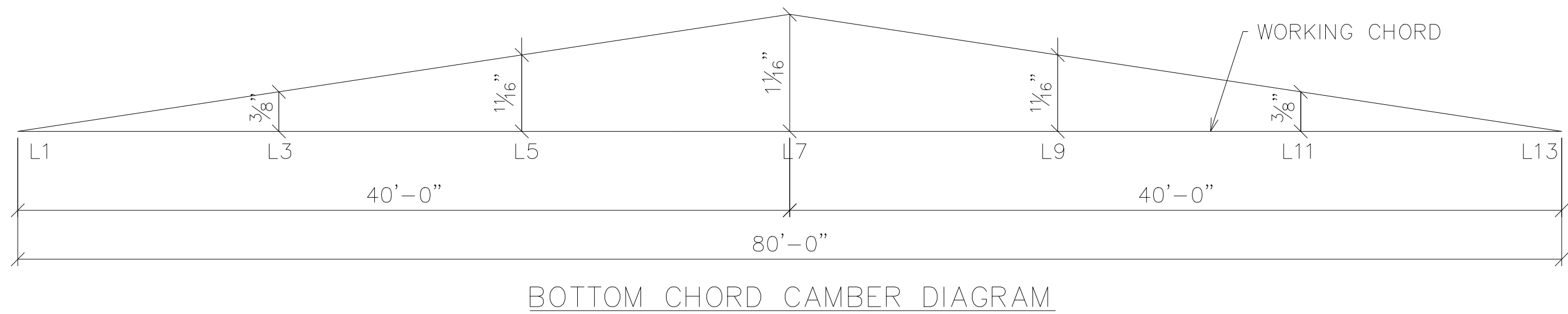
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|--------------------------|-------|-----------------------------------|--------------------------------|--------------|---------|-----------|------------|--|
| QTY | PN | FAMILY | PROFILE | LENGTH | SURFACE | WGT | | |
| | | | | | FINISH | EACH (lb) | Total (lb) | |
| 2 | AAP1 | ABUTMENT ANGLE PLATE | Plate 3/8"x1" | 16'-0" | WEATH | 189.20 | 378.39 | |
| 2 | AAP2 | ABUTMENT ANGLE PLATE | Plate 3/8"x1" | 16'-0" | WEATH | 189.20 | 378.39 | |
| 8 | AB1 | 1 1/2" ANCHOR BOLT W/2N | AB 1 1/2 | 2'-0" | GALV | 11.72 | 93.76 | |
| 1 | ABD1 | AS-BUILT DWGS | AS BUILT DWGS | 1'-5" | None | 13.26 | 13.26 | |
| 8 | ABW1 | ANCHOR BOLT WASHER | Plate 1/4"x6" | 4" | GALV | 1.56 | 12.46 | |
| 2 | BP1 | BEARING PLATE | Plate 3/4"x1'-2" | 2'-0" | GALV | 230.62 | 461.24 | |
| 2 | BP2 | BEARING PLATE | Plate 1"x1'-2" | 2'-0" | GALV | 259.36 | 518.71 | |
| 8 | ECC1 | END CLOSURE CHANNEL | C10X15.3 | 13'-3 3/4" | WEATH | 205.63 | 1645.08 | |
| 2 | ECC2 | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | WEATH | 217.75 | 435.49 | |
| 2 | ECC3 | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | WEATH | 217.75 | 435.49 | |
| 5 | FB1 | FLOOR BEAM | W30X124 | 33'-1" | WEATH | 4269.51 | 21347.53 | |
| 2 | FB2 | CLOSURE PLATE | Plate 7/8"x4 3/4" | 33'-1" | WEATH | 4889.11 | 9778.21 | |
| 16 | FE1 | FLARED END (STOCK) | GDRL 12x3 | 1'-0" | GALV | 6.61 | 105.74 | |
| 24 | GB1 | GUARDRAIL BLOCKOUT | HSS6X4X.250 | 1'-10" | GALV | 28.60 | 686.40 | |
| 4 | GTR1 | GUARDRAIL TRANSITION | TRANSITION | 6'-3" | GALV | 47.87 | 191.47 | |
| 12 | HCN1 | 1" HEX COUPLER NUT | HCN 1 | 5" | WEATH | 3.68 | 44.20 | |
| 12 | LR1 | LATERAL ROD 1" W/N & WSH | RB1 | 13'-9 11/16" | WEATH | 36.90 | 442.86 | |
| 12 | LR2 | LATERAL ROD 1" W/N & WSH | RB1 | 20'-0" | WEATH | 53.45 | 641.42 | |
| 6 | LRUB1 | U-BOLT W/2N 1 PL WASHER | RB3/8 | 5" | WEATH | 0.16 | 0.94 | |
| 2 | OA1 | OVER ANGLE | L5X3-1/2X3/8 | 16'-0" | WEATH | 166.40 | 332.80 | |
| 2 | OA2 | OVER ANGLE | L5X3-1/2X3/8 | 16'-0" | WEATH | 166.40 | 332.80 | |
| 12 | OR1 | OUTRIGGER | W8X18 | 1'-4 5/8" | WEATH | 24.94 | 299.23 | |
| 24 | ORA1 | OUTRIGGER ANGLE | L5X3-1/2X3/8 | 6" | WEATH | 5.20 | 124.80 | |
| 14 | ORA2 | OUTRIGGER ANGLE | L5X3-1/2X3/8 | 8 1/2" | WEATH | 7.37 | 103.13 | |
| 2 | SC1 | SHELF CHANNEL | C15X33.9 | 32'-0" | WEATH | 1089.57 | 2179.15 | |
| 144 | SCA1 | STRINGER CONNECTION ANGLE | L5X3-1/2X3/8 | 9" | WEATH | 7.80 | 1123.20 | |
| 1221 | SCR1 | WHEELING SIP SD SCREW | SIP 1/4-14x1.125 (SD SCREW) | 1 1/8" | None | 3.8e-03 | 4.66 | |
| 122 | SIP1 | WHEELING SIP ACCESORIES | SIP 2x3x12 Ga (BP SUPPORT ANG) | 10'-0" | GALV | 6.06 | 739.82 | |
| 140 | SIPF1 | WHEELING SIP FORMS (G235 COATING) | SIP 2.0x34x20 Ga (8.5P) | 5'-1 9/16" | GALV | 36.35 | 5089.32 | |
| 6 | SIPF2 | WHEELING SIP FORMS (G235 COATING) | SIP 2.0x34x20 Ga (8.5P) | 12'-3 9/16" | GALV | 88.88 | 533.31 | |
| 72 | SSA1 | STRINGER SEAT ANGLE | L5X3-1/2X3/8 | 7" | WEATH | 6.07 | 436.80 | |
| 24 | STR1 | STRINGER | W18X40 | 13'-1 7/16" | WEATH | 524.72 | 12593.20 | |
| 12 | STR2 | STRINGER | W18X40 | 13'-1 7/16" | WEATH | 524.72 | 6296.60 | |
| 4 | TBA1 | TRUSS BEARING ANGLE | L6X6X3/4 | 1'-2" | WEATH | 33.48 | 133.93 | |
| 4 | TBA2 | TRUSS BEARING ANGLE | L6X6X3/4 | 1'-2" | WEATH | 33.48 | 133.93 | |
| 4 | TBGR1 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | GALV | 168.88 | 675.54 | |
| 2 | TBGR2 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | GALV | 168.88 | 337.77 | |
| 4 | TBGR3 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | GALV | 168.93 | 675.73 | |
| 4 | TBGR4 | THRIE BEAM GUARDRAIL | GRT | 13'-6 1/2" | GALV | 168.93 | 675.73 | |
| 2 | TSA | BOTTOM CHORD | TRUSS SECTION A | 49'-0 5/8" | WEATH | 9886.77 | 19773.54 | |
| 2 | TSB | BOTTOM CHORD | TRUSS SECTION B | 42'-6 1/8" | WEATH | 7856.35 | 15712.69 | |
| 4 | WP1 | WOOD POST | RB6 | 6'-0" | Wood | 577.28 | 2309.10 | |

| BOLT CHART | | | | | | | | |
|------------|--------|-------------|---------|-------|--------|----------|------|---------|
| DIAMETER | LENGTH | DESCRIPTION | REMARKS | BOLTS | | | NUTS | WASHERS |
| | | | | QTY | CLASS | UNIT WGT | QTY | QTY |
| 5/8" | 1 1/4" | RD HD | | 224 | A307 | 0.29 | 224 | 224 |
| 5/8" | 2" | RD HD | | 48 | A307 | 0.35 | 48 | 48 |
| 5/8" | 10" | RD HD | | 4 | A307 | 1.05 | 4 | 4 |
| 5/8" | 2" | | | 24 | A325-3 | 0.35 | 24 | 24 |
| 5/8" | 2 1/2" | | | 24 | A325-3 | 0.40 | 24 | 24 |
| 7/8" | 2 1/4" | | | 48 | A325-1 | 0.88 | 48 | 48 |
| 7/8" | 2" | | | 28 | A325-3 | 0.83 | 28 | 28 |
| 7/8" | 2 1/4" | | | 1920 | A325-3 | 0.88 | 1920 | 1920 |
| 7/8" | 2 1/2" | | | 1176 | A325-3 | 0.92 | 1176 | 1176 |
| 7/8" | 2 3/4" | | | 16 | A325-3 | 0.96 | 16 | 16 |
| 7/8" | 3" | | | 180 | A325-3 | 1.01 | 180 | 180 |
| 7/8" | 3 1/4" | | | 72 | A325-3 | 1.05 | 72 | 72 |
| 7/8" | 3 3/4" | | | 60 | A325-3 | 1.13 | 60 | 60 |



TRUSS ASSEMBLY NOTES:

1. THE SQUARE CORNER OF THE LOWER GUSSET PLATES ARE TO FACE TOWARDS THE \oslash OF THE TRUSS
2. SHEETS 9a-9b CONTAIN THE DRAWINGS FOR THE COMPLETED TRUSSES L&R.
3. THE TRUSS LAYOUT IS SHOWN IN THE "UNLOADED" POSITION.
4. FOR FIELD BOLT QUANTITIES AND LENGTHS.
5. THE BOLT CHARTS ARE SHOWN ON SHEETS 9a-9b.
6. ASSEMBLY DRAWINGS PROVIDE THE MAXIMUM NUMBER OF SHIMS PERMITTED.
7. TRUSS MEMBERS ARE DESIGNED FOR A 1/8" GAP BETWEEN MEMBERS (1/4" MAX) AT COMPLETE FIT UP.



SYMBOLS & ABBREVIATIONS

| | |
|---------------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| \oslash : CENTERLINE | WP/ \oplus : WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C\C: CENTER TO CENTER | BRG: BEARING |
| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/ \oslash : DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

DIST. BY:



FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

| | | | | | |
|-------------------|---------|-------------|--|--|--|
| INITIAL SUBMITTAL | 6-16-11 | \triangle | | | |
| RESUBMITTAL NO. | - | \triangle | | | |
| CUSTOMER APPROVAL | - | \triangle | | | |
| SHOP REVIEW | 6-16-11 | \triangle | | | |
| PRE FAB MTG | - | \triangle | | | |
| APPROVED FOR FAB | - | \triangle | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF

DRAW: CRM

REVIEW: DLM

CHECK: AEC

SHOP DETAILS

TRUSS ASSEMBLY

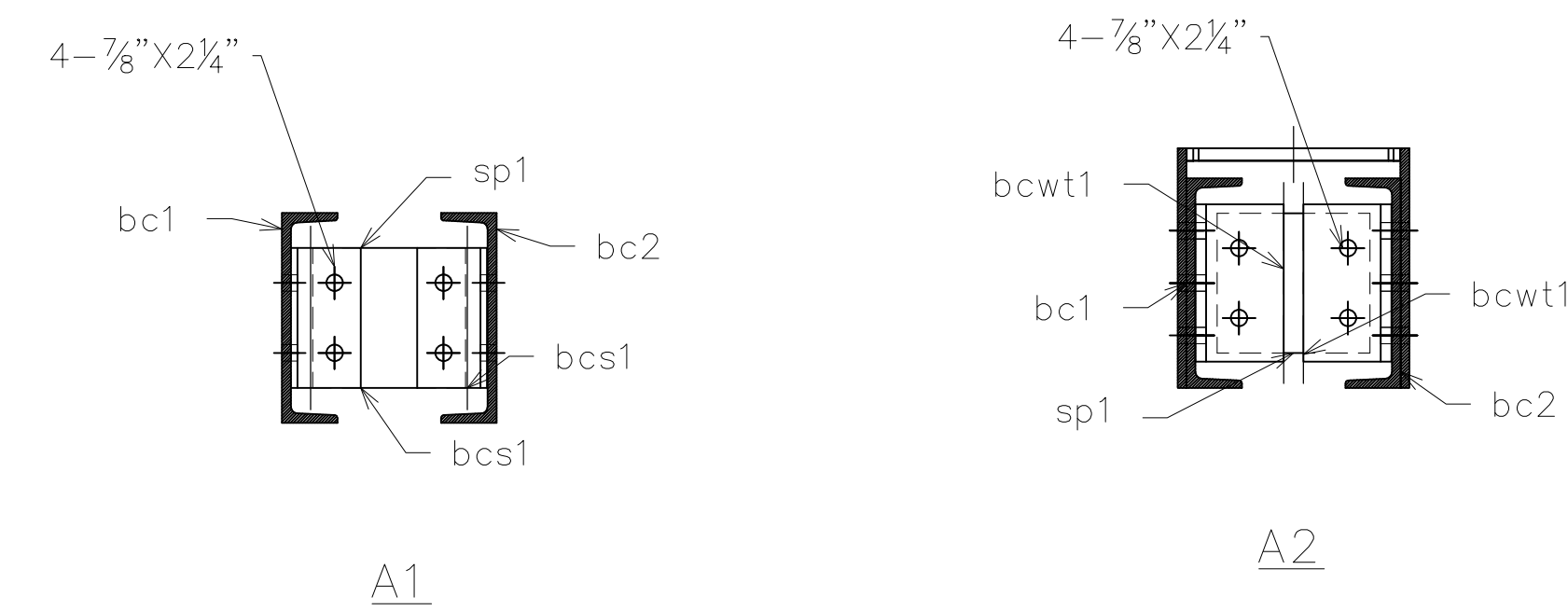
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SHEET

9

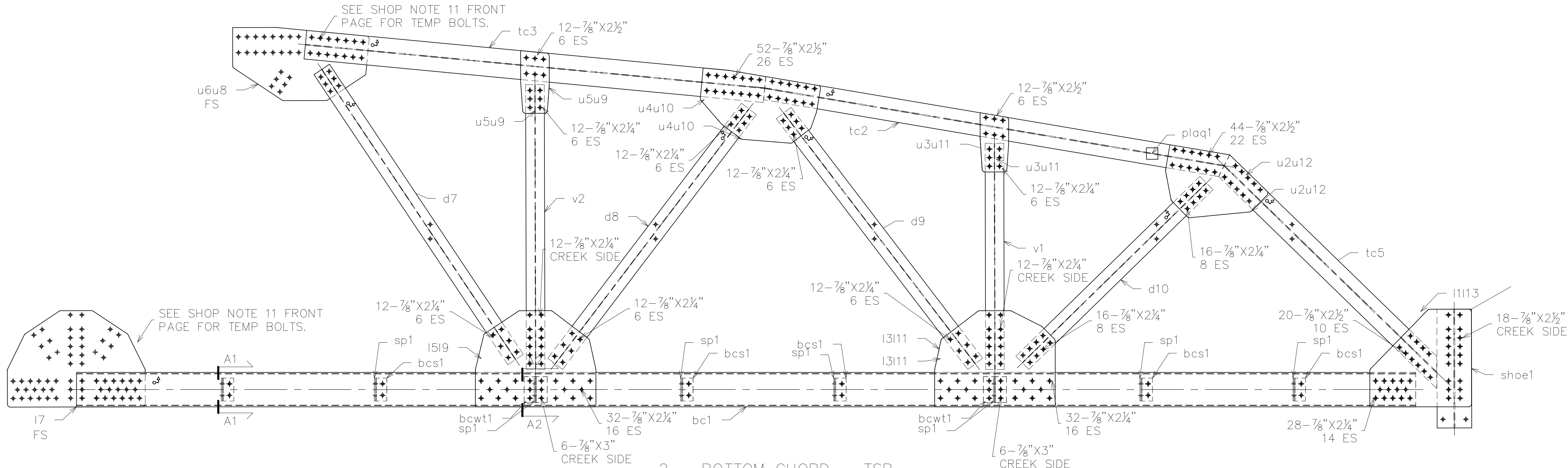
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TOTAL

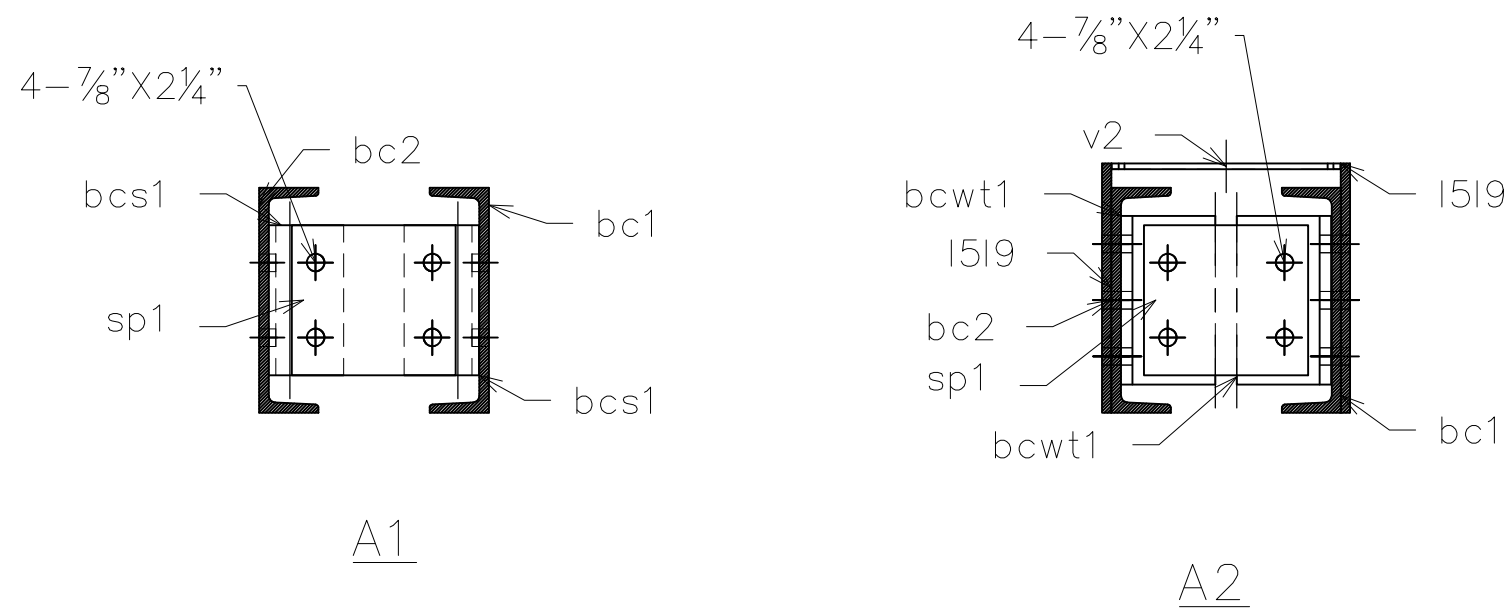


| MATERIAL SCHEDULE | | | | | | | | |
|-------------------------|--------------|------------------------|--------------|-------------------------|--------------|----------------|------------|----------|
| PC QTY | PN | FAMILY | PROFILE | LENGTH | GRADE | WGT | | |
| | | | | | | EACH (lb) | TOTAL (lb) | |
| 1 | Part NO.=TSA | QTY=2 | FINISH=WEATH | TOTAL WGT=19773.54(lb) | | | | |
| 1 | bc1 | BOTTOM CHORD | | C12X30 | 38'-10 1/2" | STEEL A588-CVN | 1166.3 | 1166.3 |
| 1 | bc2 | BOTTOM CHORD | | C12X30 | 38'-10 1/2" | STEEL A588-CVN | 1166.3 | 1166.3 |
| 12 | bcs1 | BOTTOM CHORD SPACER | | L4X4X3/8 | 8" | STEEL A588-50 | 6.5 | 78.4 |
| 6 | bcwt1 | BOTTOM CHORD SPACER WT | | W10X45 | 9" | STEEL A588-50 | 33.8 | 202.5 |
| 1 | d1 | DIAGONAL BRACE | | W12X26 | 7'-5 5/8" | STEEL A588-CVN | 194.2 | 194.2 |
| 1 | d2 | DIAGONAL BRACE | | W12X26 | 9'-1 15/16" | STEEL A588-CVN | 238.2 | 238.2 |
| 1 | d3 | DIAGONAL BRACE | | W12X26 | 9'-3 9/16" | STEEL A588-CVN | 241.7 | 241.7 |
| 1 | d4 | DIAGONAL BRACE | | W12X26 | 10'-1 9/16" | STEEL A588-CVN | 263.4 | 263.4 |
| 1 | d5 | DIAGONAL BRACE | | W12X26 | 10'-1 1/8" | STEEL A588-CVN | 262.4 | 262.4 |
| 1 | d6 | DIAGONAL BRACE | | W12X26 | 10'-1 1/8" | STEEL A588-CVN | 262.4 | 262.4 |
| 1 | l7 | LOWER GUSSET | | Plate 1/2"x2'-9 9/16" | 4'-0" | STEEL A588-CVN | 183.3 | 183.3 |
| 2 | l11i3 | LOWER GUSSET | | Plate 1/2"x2'-10" | 2'-11 7/16" | STEEL A588-CVN | 136.2 | 272.4 |
| 2 | l3i11 | LOWER GUSSET | | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | 171.3 | 342.6 |
| 2 | l5i9 | LOWER GUSSET | | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | 167.6 | 335.2 |
| 1 | shoe1 | SHOE | | W12X72 | 3'-5 3/8" | STEEL A588-50 | 248.3 | 248.3 |
| 9 | sp1 | SPACER PLATE | | Plate 3/8"x8" | 8 3/4" | STEEL A588-50 | 7.2 | 64.4 |
| 1 | tc1 | TOP CHORD | | W12X50 | 9'-0 7/16" | STEEL A588-50 | 451.7 | 451.7 |
| 1 | tc2 | TOP CHORD | | W12X50 | 13'-7 3/4" | STEEL A588-50 | 682.2 | 682.2 |
| 1 | tc3 | TOP CHORD | | W12X58 | 13'-4 5/8" | STEEL A588-50 | 776.4 | 776.4 |
| 1 | tc4 | TOP CHORD | | W12X65 | 13'-4 13/16" | STEEL A588-50 | 871.2 | 871.2 |
| 2 | u7 | UPPER GUSSET | | Plate 1/2"x10" | 1'-11" | STEEL A588-50 | 30.3 | 60.6 |
| 2 | u2u12 | UPPER GUSSET | | Plate 1/2"x2'-1 15/16" | 2'-10 3/4" | STEEL A588-50 | 87.6 | 175.2 |
| 2 | u3u11 | UPPER GUSSET | | Plate 1/2"x10 5/16" | 1'-9 1/8" | STEEL A588-50 | 25.6 | 51.1 |
| 2 | u4u10 | UPPER GUSSET | | Plate 1/2"x1'-10 15/16" | 3'-5 1/2" | STEEL A588-50 | 110.0 | 220.1 |
| 2 | u5u9 | UPPER GUSSET | | Plate 1/2"x10" | 1'-9 7/8" | STEEL A588-50 | 27.9 | 55.8 |
| 3 | u6u8 | UPPER GUSSET | | Plate 1/2"x2'-1 1/8" | 3'-11 3/4" | STEEL A588-50 | 135.0 | 405.0 |
| 1 | v1 | VERTICAL BRACE | | W12X26 | 6'-6 13/16" | STEEL A588-50 | 170.8 | 170.8 |
| 1 | v2 | VERTICAL BRACE | | W12X26 | 8'-3 1/4" | STEEL A588-50 | 215.0 | 215.0 |
| 1 | v3 | VERTICAL BRACE | | W12X26 | 8'-10" | STEEL A588-50 | 229.7 | 229.7 |
| | | | | | | | | 9886.77 |
| Total element mass (lb) | | | | | | | | 19773.54 |

| | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|-----------------------------|--|-------------------|--|---------|-----|-------|------------|--|-----|---|-----------|----------------|------------|-------------------|-------------|----|--|
| SYMBOLS & ABBREVIATIONS | | DIST. BY: | | SUBMITTAL LOG | | DATE | NO: | DATE: | REVISIONS: | | BY: | <div>MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS</div> <div>ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.:</div> | | | | | | | |
| ES: EACH SIDE | | NS: NEAR SIDE | | INITIAL SUBMITTAL | | 6-16-11 | △ | | | | | | | | | | | | |
| EQ: EQUAL | | FS: FAR SIDE | | RESUBMITTAL NO. | | - | △ | | | | | | | | | | | | |
| CL: CENTERLINE | | WP / ◆: WORK POINT | | CUSTOMER APPROVAL | | - | △ | | | | | | | | | | | | |
| REF: REFERENCE | | GA: GAUGE | | SHOP REVIEW | | 6-16-11 | △ | | | | | | | | | | | | |
| CHK: CHECK | | ID: INSIDE DIAMETER | | PRE FAB MTG | | - | △ | | | | | | | | | | | | |
| O\O: OUT TO OUT | | OD: OUTSIDE DIAMETER | | APPROVED FOR FAB | | - | △ | | | | | | | | | | | | |
| C\C: CENTER TO CENTER | | BRG: BEARING | | | | | | | | | | DESIGN: SAF | DRAW: CRM | REVIEW: DLM | CHECK: AEC | USB JOB# 50462 | SHEET 9a | 22 | |
| F\F: FACE TO FACE | | TYP: TYPICAL | | | | | | | | | | SHOP DETAILS | | TRUSS ASSEMBLY | | | | | |
| DIA/Ø: DIAMETER | | UNO: UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | |
| R: RADIUS | | ABUT: ABUTMENT | | | | | | | | | | | | | | | | | |
| | | T&B: TOP & BOTTOM | | | | | | | | | | | | | | | | | |



| BOLT CHART (SHOP) | | | | | | | | |
|-------------------|--------|-------------|---------|-------|--------|----------|------|---------|
| DIAMETER | LENGTH | DESCRIPTION | REMARKS | BOLTS | | | NUTS | WASHERS |
| | | | | QTY | CLASS | UNIT WGT | QTY | QTY |
| 7/8" | 2 1/4" | | | 576 | A325-3 | 0.88 | 576 | 576 |
| 7/8" | 2 1/2" | | | 316 | A325-3 | 0.92 | 316 | 316 |
| 7/8" | 3" | | | 24 | A325-3 | 1.01 | 24 | 24 |



| MATERIAL SCHEDULE | | | | | | | | |
|-------------------------|-------|-----|------------------------|-------------------------|------------------------|----------------|-----------|------------|
| PC | QTY | PN | FAMILY | PROFILE | LENGTH | GRADE | WGT | |
| | | | | | | | EACH (lb) | TOTAL (lb) |
| PART | NO.= | TSB | QTY=2 | FINISH=WEATH | TOTAL WGT=15712.69(lb) | | | |
| 1 | bc1 | | BOTTOM CHORD | C12X30 | 38'-10 1/2" | STEEL A588-CVN | 1166.3 | 1166.3 |
| 1 | bc2 | | BOTTOM CHORD | C12X30 | 38'-10 1/2" | STEEL A588-CVN | 1166.3 | 1166.3 |
| 12 | bcs1 | | BOTTOM CHORD SPACER | L4X4X3/8 | 8" | STEEL A588-50 | 6.5 | 78.4 |
| 4 | bcwt1 | | BOTTOM CHORD SPACER WT | W10X45 | 9" | STEEL A588-50 | 33.8 | 135.0 |
| 1 | d7 | | DIAGONAL BRACE | W12X26 | 10'-1 9/16" | STEEL A588-CVN | 263.4 | 263.4 |
| 1 | d8 | | DIAGONAL BRACE | W12X26 | 9'-3 9/16" | STEEL A588-CVN | 241.7 | 241.7 |
| 1 | d9 | | DIAGONAL BRACE | W12X26 | 9'-1 15/16" | STEEL A588-CVN | 238.2 | 238.2 |
| 1 | d10 | | DIAGONAL BRACE | W12X26 | 7'-5 5/8" | STEEL A588-CVN | 194.2 | 194.2 |
| 1 | I7 | | LOWER GUSSET | Plate 1/2"x2'-9 9/16" | 4'-0" | STEEL A588-CVN | 183.3 | 183.3 |
| 2 | I1I13 | | LOWER GUSSET | Plate 1/2"x2'-10" | 2'-11 7/16" | STEEL A588-CVN | 136.2 | 272.4 |
| 2 | I3I11 | | LOWER GUSSET | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | 171.3 | 342.6 |
| 2 | I5I9 | | LOWER GUSSET | Plate 1/2"x2'-9 1/2" | 3'-6" | STEEL A588-CVN | 167.6 | 335.2 |
| 1 | plaq1 | | PLAQUE | Plate 1/8"x4" | 4" | STEEL | 0.6 | 0.6 |
| 1 | shoe1 | | SHOE | W12X72 | 3'-5 3/8" | STEEL A588-50 | 248.3 | 248.3 |
| 8 | sp1 | | SPACER PLATE | Plate 3/8"x8" | 8 3/4" | STEEL A588-50 | 7.2 | 57.3 |
| 1 | tc2 | | TOP CHORD | W12X50 | 13'-7 3/4" | STEEL A588-50 | 682.2 | 682.2 |
| 1 | tc3 | | TOP CHORD | W12X58 | 13'-4 5/8" | STEEL A588-50 | 776.4 | 776.4 |
| 1 | tc5 | | TOP CHORD | W12X50 | 9'-0 7/16" | STEEL A588-50 | 451.7 | 451.7 |
| 2 | u2u12 | | UPPER GUSSET | Plate 1/2"x2'-1 15/16" | 2'-10 3/4" | STEEL A588-50 | 87.6 | 175.2 |
| 2 | u3u11 | | UPPER GUSSET | Plate 1/2"x10 5/16" | 1'-9 1/8" | STEEL A588-50 | 25.6 | 51.1 |
| 2 | u4u10 | | UPPER GUSSET | Plate 1/2"x1'-10 15/16" | 3'-5 1/2" | STEEL A588-50 | 110.0 | 220.1 |
| 2 | u5u9 | | UPPER GUSSET | Plate 1/2"x10" | 1'-9 7/8" | STEEL A588-50 | 27.9 | 55.8 |
| 1 | u6u8 | | UPPER GUSSET | Plate 1/2"x2'-1 1/8" | 3'-11 3/4" | STEEL A588-50 | 135.0 | 135.0 |
| 1 | v1 | | VERTICAL BRACE | W12X26 | 6'-6 13/16" | STEEL A588-50 | 170.8 | 170.8 |
| 1 | v2 | | VERTICAL BRACE | W12X26 | 8'-3 1/4" | STEEL A588-50 | 215.0 | 215.0 |
| | | | | | | | 7856.35 | |
| Total element mass (lb) | | | | | | | | 15712.69 |

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
EQ: EQUAL
CL: CENTERLINE
REF: REFERENCE
CHK: CHECK
O\O: OUT TO OUT
C\C: CENTER TO CENTER
F\F: FACE TO FACE
DIA/\phi: DIAMETER
R: RADIUS

NS: NEAR SIDE
FS: FAR SIDE
WP/\phi: WORK POINT
GA: GAUGE
ID: INSIDE DIAMETER
OD: OUTSIDE DIAMETER
BRG: BEARING
TYP: TYPICAL
UNO: UNLESS NOTED OTHERWISE
ABUT: ABUTMENT
T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

INITIAL SUBMITTAL
RESUBMITTAL NO.
CUSTOMER APPROVAL
SHOP REVIEW
PRE FAB MTG
APPROVED FOR FAB

6-16-11
-
-
6-16-11
-
-

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF

DRAW: CRM

REVIEW: DLM

CHECK: AEC

SHOP DETAILS

TRUSS ASSEMBLY

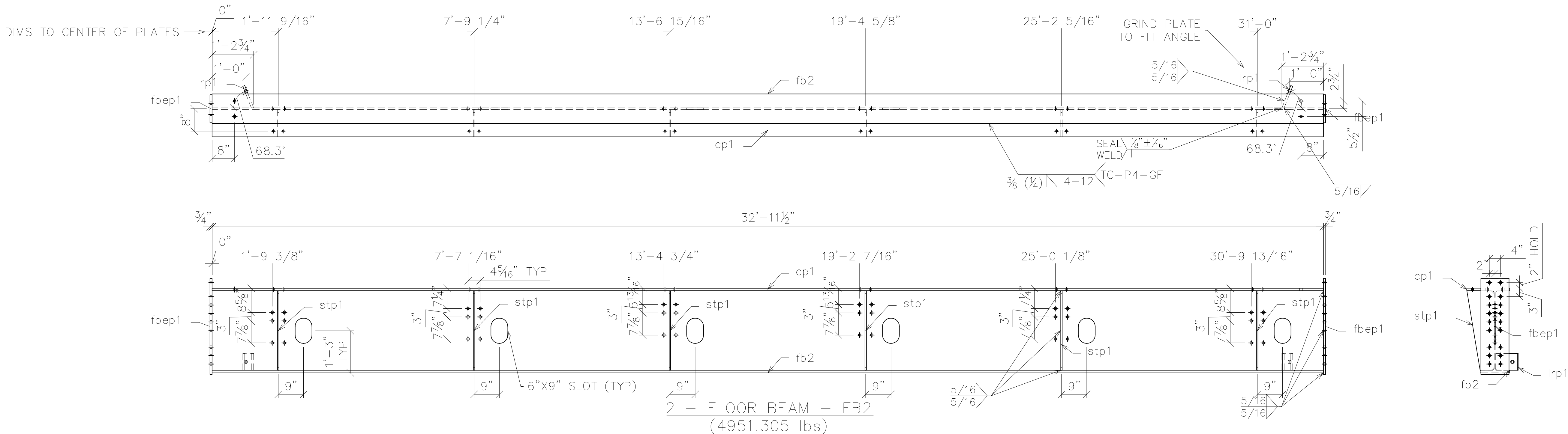
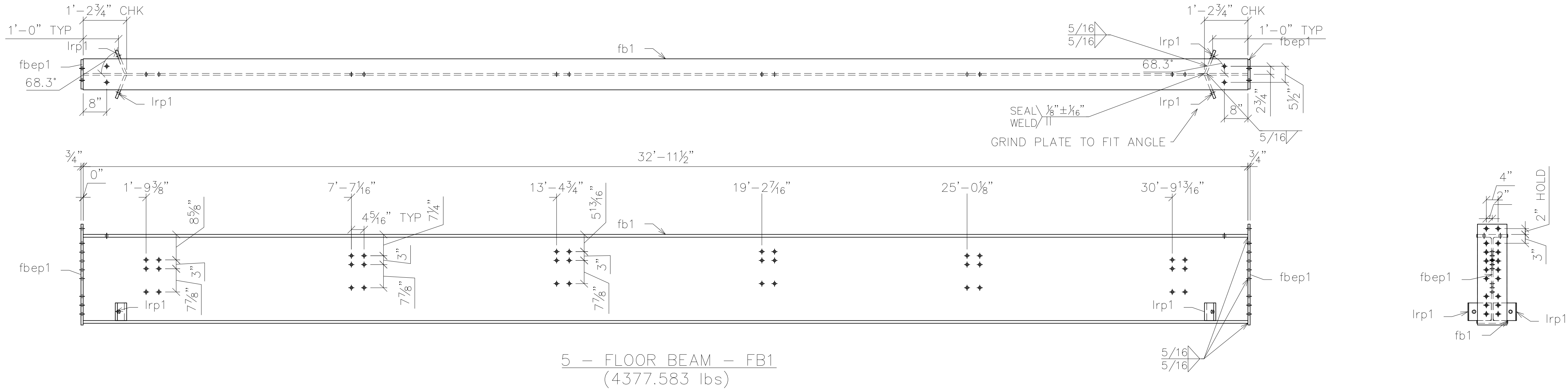
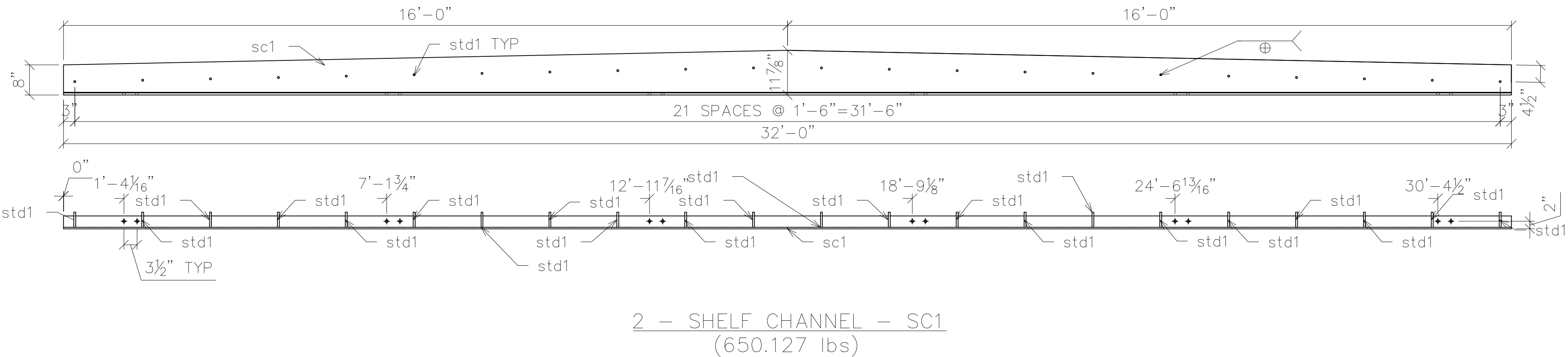
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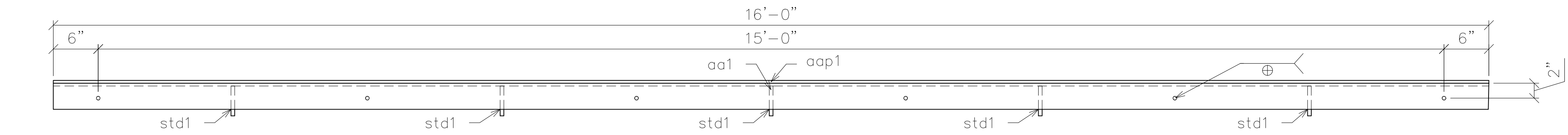
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TOTAL

DATE PLOTTED June 16, 2011

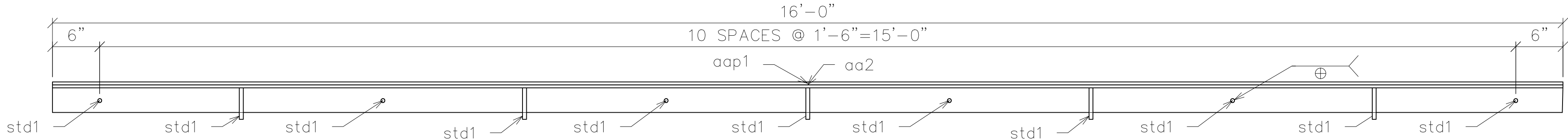
| MATERIAL SCHEDULE | | | | | | | |
|-------------------------|-------|-------|----------------------|------------------------|-------------|----------------|---------------------|
| PC | QTY | PN | FAMILY | PROFILE | LENGTH | GRADE | WGT |
| | | | | | | | EACH (lb)TOTAL (lb) |
| PART NO.=FB1 | | QTY=5 | FINISH=WEATH | TOTAL WGT=21347.53(lb) | | | |
| 1 | fb1 | | FLOOR BEAM | W30X124 | 32'-11 1/2" | STEEL A588-CVN | 4086.8 |
| 2 | fbep1 | | FLOOR BEAM END PLATE | Plate 3/4"x10" | 2'-10 1/4" | STEEL A588-CVN | 70.3 |
| 4 | lrp1 | | LATERAL ROD PLATE | Plate 3/4"x6" | 8 9/16" | STEEL A588-50 | 10.5 |
| | | | | | | | 4269.51 |
| PART NO.=FB2 | | QTY=2 | FINISH=WEATH | TOTAL WGT=9778.21(lb) | | | |
| 1 | cp1 | | CLOSURE PLATE | Plate 7/8"x4 3/4" | 32'-11 1/2" | STEEL A588-50 | 464.8 |
| 1 | fb2 | | FLOOR BEAM | W30X124 | 32'-11 1/2" | STEEL A588-CVN | 4086.8 |
| 2 | fbep1 | | FLOOR BEAM END PLATE | Plate 3/4"x10" | 2'-10 1/4" | STEEL A588-CVN | 70.3 |
| 2 | lrp1 | | LATERAL ROD PLATE | Plate 3/4"x6" | 8 9/16" | STEEL A588-50 | 10.5 |
| 6 | stp1 | | STIFFENER PLATE | Plate 1/2"x9 7/16" | 2'-5 3/8" | STEEL A588-50 | 29.3 |
| | | | | | | | 4889.11 |
| PART NO.=SC1 | | QTY=2 | FINISH=WEATH | TOTAL WGT=2179.15(lb) | | | |
| 1 | sc1 | | SHELF CHANNEL | C15X33.9 | 32'-0" | STEEL A588-50 | 1084.8 |
| 22 | std1 | | STUD 1/2"DIA x 4" | STD 1/2 | 4" | STEEL A108 | 0.2 |
| | | | | | | | 1089.57 |
| Total element mass (lb) | | | | | | | 33304.90 |



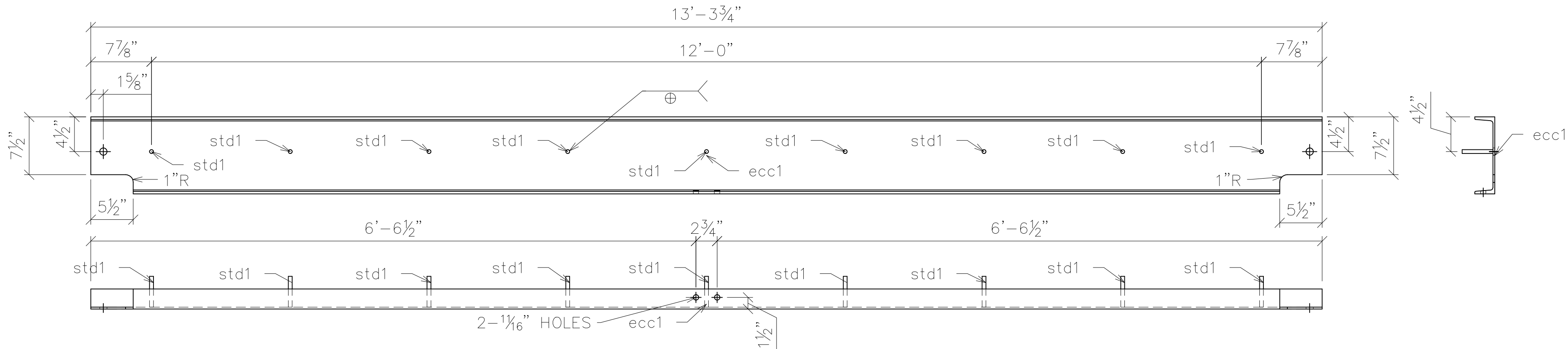
| SYMBOLS & ABBREVIATIONS | | DIST. BY: | | SUBMITTAL LOG | | DATE | NO: | DATE: | REVISIONS: | | BY: | MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS | | | | ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | | | | | | | |
|-------------------------|-----------------------------|-----------|--|-------------------|--|---------|-----|-------|------------|--|-----|--|--|-----------|--|--|--|------------|--|-------------------|--|-------|--|
| ES: EACH SIDE | NS: NEAR SIDE | FAB. BY: | | INITIAL SUBMITTAL | | 6-16-11 | △ | | | | | | | | | | | | | | | | |
| EQ: EQUAL | FS: FAR SIDE | | | RESUBMITTAL NO. | | - | △ | | | | | | | | | | | | | | | | |
| CL: CENTERLINE | WP/◆: WORK POINT | | | CUSTOMER APPROVAL | | - | △ | | | | | | | | | | | | | | | | |
| REF: REFERENCE | GA: GAUGE | | | SHOP REVIEW | | 6-16-11 | △ | | | | | | | | | | | | | | | | |
| CHK: CHECK | ID: INSIDE DIAMETER | | | PRE FAB MTG | | - | △ | | | | | | | | | | | | | | | | |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER | | | APPROVED FOR FAB | | - | △ | | | | | | | | | | | | | | | | |
| C\C: CENTER TO CENTER | BRG: BEARING | | | | | | | | | | | | | | | | | | | | | | |
| F\F: FACE TO FACE | TYP: TYPICAL | | | | | | | | | | | | | | | | | | | | | | |
| DIA/∅: DIAMETER | UNO: UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | |
| R: RADIUS | ABUT: ABUTMENT | | | | | | | | | | | | | | | | | | | | | | |
| | T&B: TOP & BOTTOM | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | DESIGN: SAF | | DRAW: CRM | | REVIEW: DLM | | CHECK: AEC | | SHEET 10 | | 22 | |
| | | | | | | | | | | | | SHOP DETAILS | | | | SHOP ASSEMBLY | | | | USB JOB# 50462 | | TOTAL | |



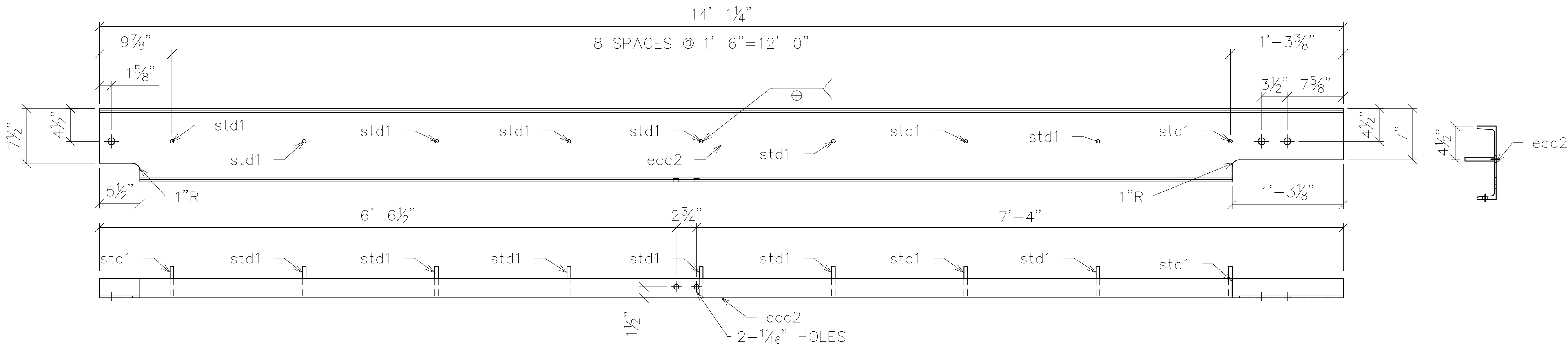
2 - ABUTMENT ANGLE PLATE - AAP1
(188.668 lbs)



2 - ABUTMENT ANGLE PLATE - AAP2
(188.668 lbs)

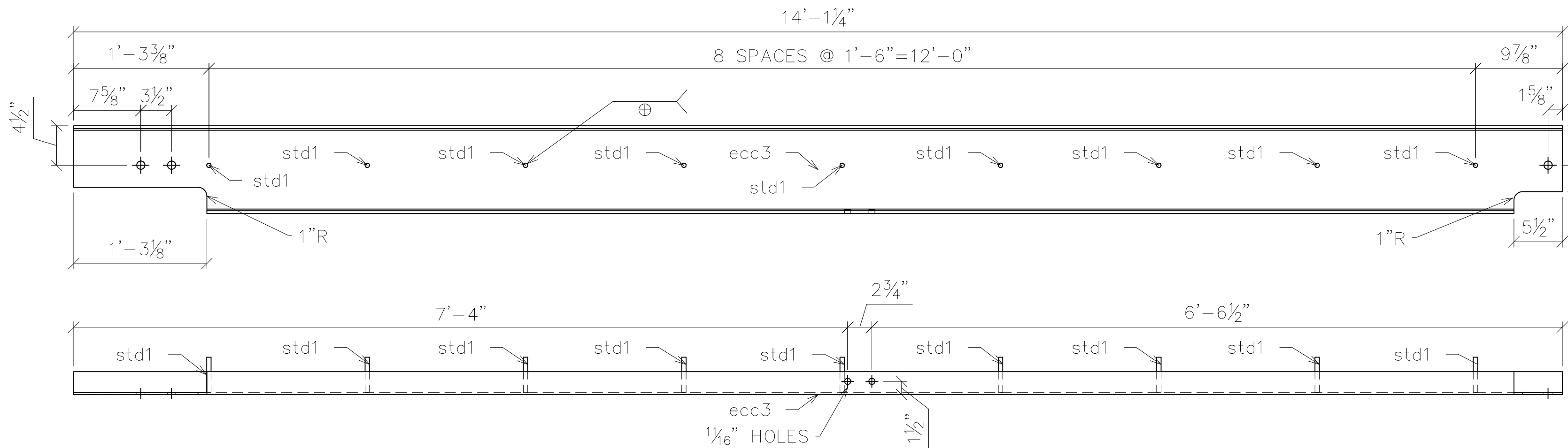


8 - END CLOSURE CHANNEL - ECC1
(200.772 lbs)



2 - END CLOSURE CHANNEL - ECC2
(208.992 lbs)

1 5/16" Ø HOLES UNO



2 - END CLOSURE CHANNEL - ECC3
(209.999 lbs)

| MATERIAL SCHEDULE | | | | | | | | | |
|-------------------------|------|----------------------|--------------|----------------------|---------------|--------|---------------|-----------|------------|
| PC | QTY | PN | FAMILY | | PROFILE | LENGTH | GRADE | WGT | |
| | | | | | | | | EACH (lb) | TOTAL (lb) |
| PART NO.=AAP1 | | QTY=2 | FINISH=WEATH | TOTAL WGT=378.39(lb) | | | | | |
| 1 | aa1 | ABUTMENT ANGLE | | | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | 166.4 | 166.4 |
| 1 | aap1 | ABUTMENT ANGLE PLATE | | | Plate 3/8"x1" | 16'-0" | STEEL A588-50 | 20.4 | 20.4 |
| 11 | std1 | STUD 1/2"DIA x 4" | | | STD 1/2 | 4" | STEEL A108 | 0.2 | 2.4 |
| | | | | | | | | 189.20 | |
| PART NO.=AAP2 | | QTY=2 | FINISH=WEATH | TOTAL WGT=378.39(lb) | | | | | |
| 1 | aa2 | ABUTMENT ANGLE | | | L5X3-1/2X3/8 | 16'-0" | STEEL A588-50 | 166.4 | 166.4 |
| 1 | aap1 | ABUTMENT ANGLE PLATE | | | Plate 3/8"x1" | 16'-0" | STEEL A588-50 | 20.4 | 20.4 |
| 11 | std1 | STUD 1/2"DIA x 4" | | | STD 1/2 | 4" | STEEL A108 | 0.2 | 2.4 |
| | | | | | | | | 189.20 | |
| Total element mass (lb) | | | | | | | | 756.79 | |

| MATERIAL SCHEDULE | | | | | | | | |
|-------------------------|----------|-------|---------------------|-----------------------|------------|---------------|-----------|------------|
| PC | QTY | PN | FAMILY | PROFILE | LENGTH | GRADE | WGT | |
| | | | | | | | EACH (lb) | TOTAL (lb) |
| PART | NO.=ECC1 | QTY=8 | FINISH=WEATH | TOTAL WGT=1645.08(lb) | | | | |
| 1 | ecc1 | | END CLOSURE CHANNEL | C10X15.3 | 13'-3 3/4" | STEEL A588-50 | 203.7 | 203.7 |
| 9 | std1 | | STUD 1/2"DIA x 4" | STD 1/2 | 4" | STEEL A108 | 0.2 | 2.0 |
| | | | | | | | | 205.63 |
| PART | NO.=ECC2 | QTY=2 | FINISH=WEATH | TOTAL WGT=435.49(lb) | | | | |
| 1 | ecc2 | | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | STEEL A588-50 | 215.8 | 215.8 |
| 9 | std1 | | STUD 1/2"DIA x 4" | STD 1/2 | 4" | STEEL A108 | 0.2 | 2.0 |
| | | | | | | | | 217.75 |
| PART | NO.=ECC3 | QTY=2 | FINISH=WEATH | TOTAL WGT=435.49(lb) | | | | |
| 1 | ecc3 | | END CLOSURE CHANNEL | C10X15.3 | 14'-1 1/4" | STEEL A588-50 | 215.8 | 215.8 |
| 9 | std1 | | STUD 1/2"DIA x 4" | STD 1/2 | 4" | STEEL A108 | 0.2 | 2.0 |
| | | | | | | | | 217.75 |
| Total element mass (lb) | | | | | | | | 2516.06 |

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
EQ: EQUAL
C: CENTERLINE
REF: REFERENCE
CHK: CHECK
O/O: OUT TO OUT
C/C: CENTER TO CENTER
F/F: FACE TO FACE
DIA/Ø: DIAMETER
R: RADIUS

NS: NEAR SIDE
FS: FAR SIDE
WP/◆: WORK POINT
GA: GAUGE
ID: INSIDE DIAMETER
OD: OUTSIDE DIAMETER
BRG: BEARING
TYP: TYPICAL
UNO: UNLESS NOTED OTHERWISE
ABUT: ABUTMENT
T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

INITIAL SUBMITTAL
RESUBMITTAL NO.
CUSTOMER APPROVAL
SHOP REVIEW
PRE FAB MTG
APPROVED FOR FAB

DATE

6-16-11
-
-
6-16-11
-
-

NO:

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DATE:

REVISIONS:

BY:

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

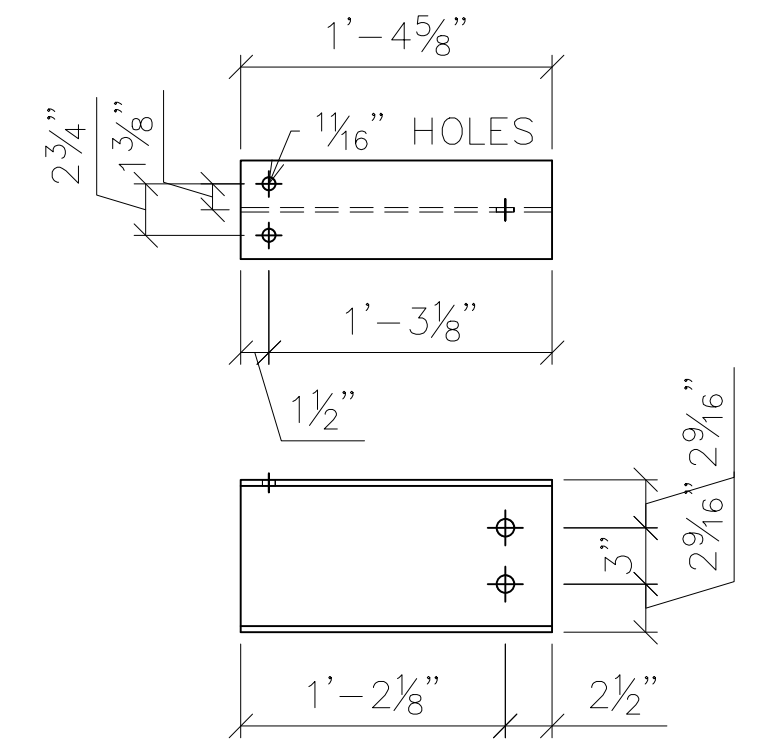
DESIGN: SAF
DRAW: CRM
REVIEW: DLM
CHECK: AEC
SHOP DETAILS

SHOP ASSEMBLY

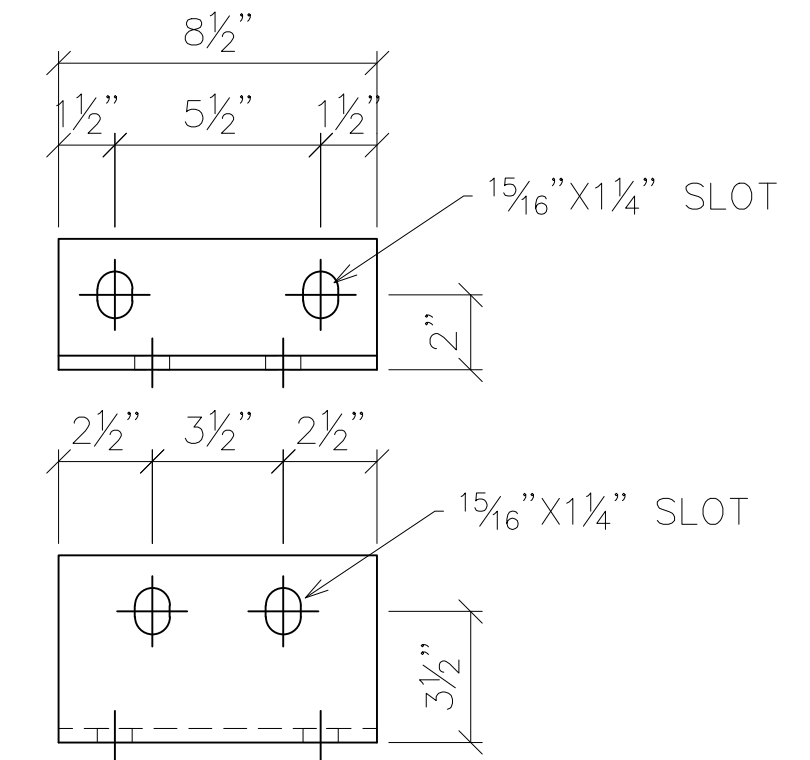
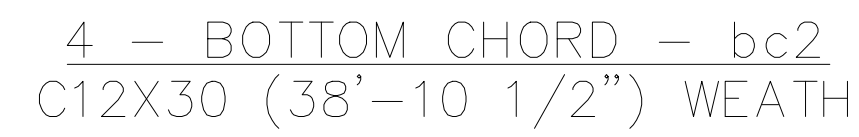
USB JOB#
50462

SHEET
10a

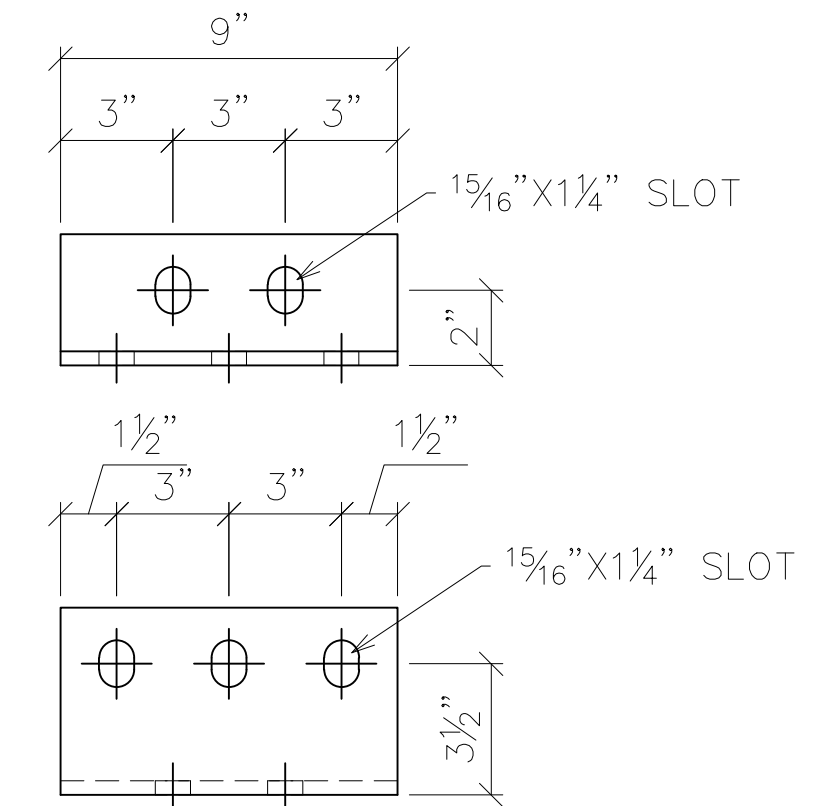
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TOTAL



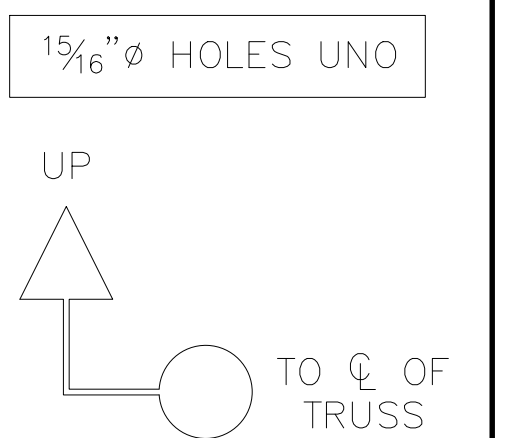
12 - OUTRIGGER - or1
W8X18 (1'-4 5/8") WEATH



14 - OUTRIGGER ANGLE - ora2
L5X3-1/2X3/8 (8 1/2") WEATH



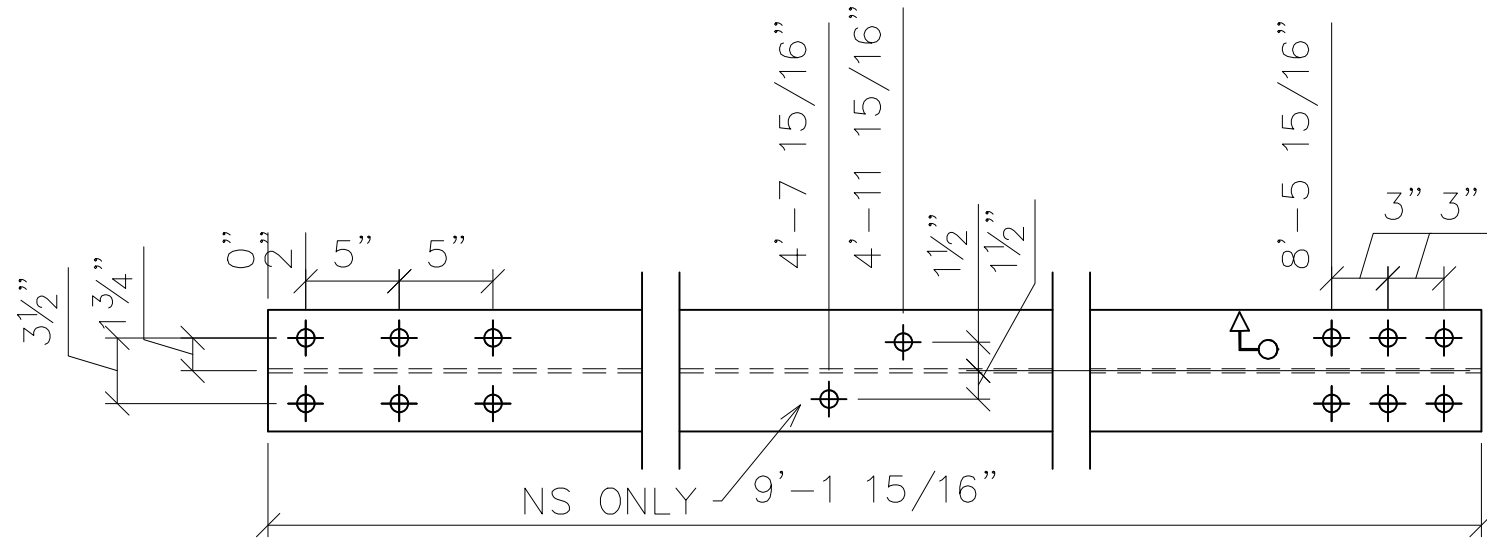
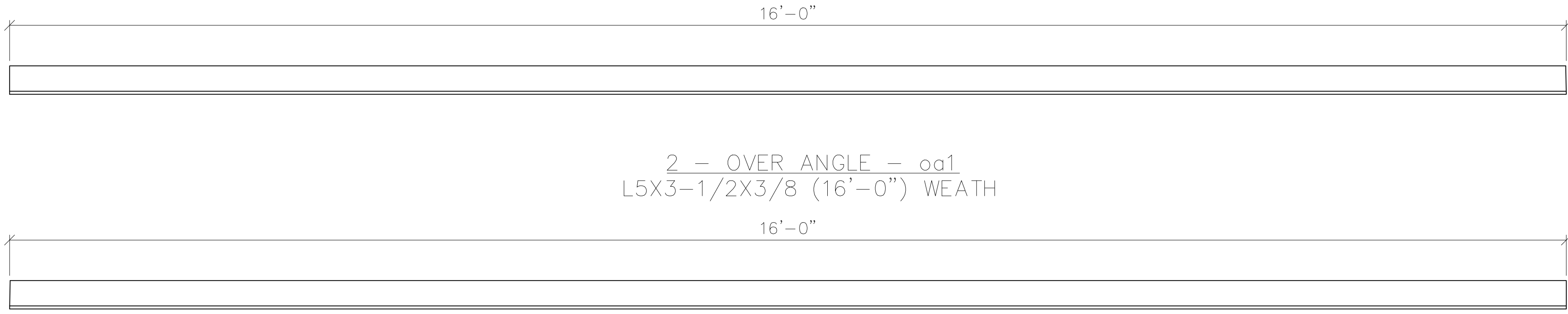
144 - STRINGER CONNECTION ANGLE - sca1
L5X3-1/2X3/8 (9") WEATH



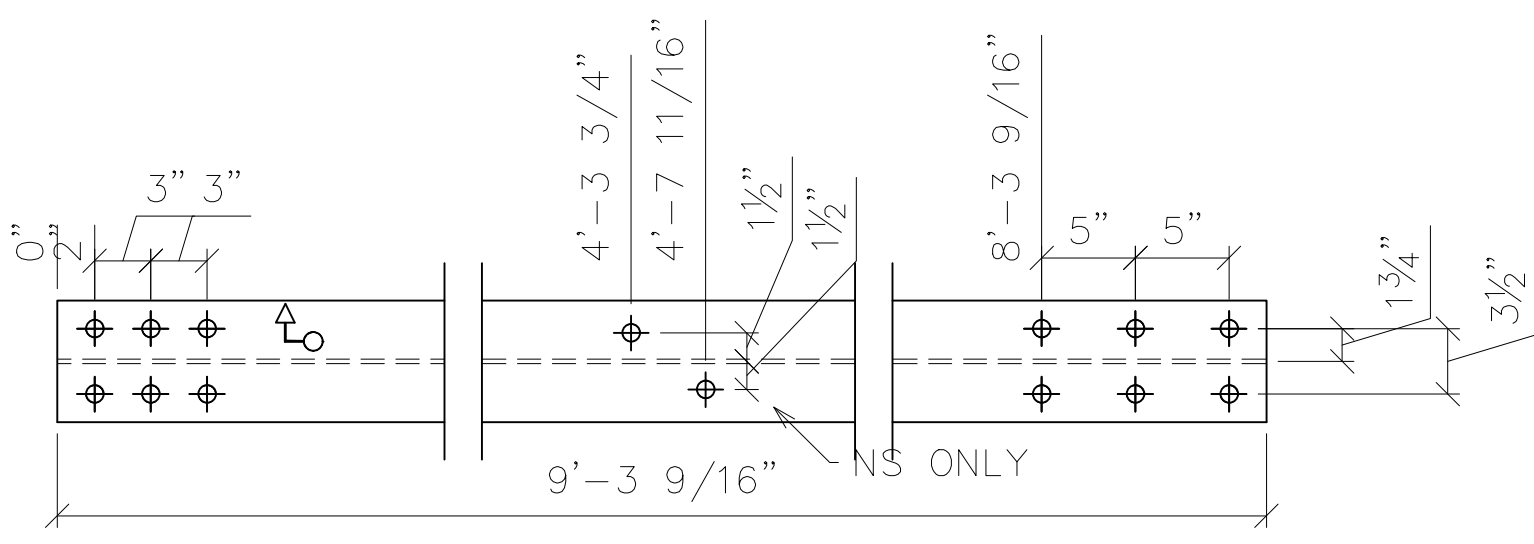
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|-------------------------|--|-----------------------------|--|-------------------|--|---------|--|-----|--|-------|--|------------|--|-----|--|--|--|--|--|
| SYMBOLS & ABBREVIATIONS | | DIST. BY: | | SUBMITTAL LOG | | DATE | | NO: | | DATE: | | REVISIONS: | | BY: | | MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS | | ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | |
| ES: EACH SIDE | | NS: NEAR SIDE | | INITIAL SUBMITTAL | | 6-16-11 | | △ | | | | | | | | | | | |
| EQ: EQUAL | | FS: FAR SIDE | | RESUBMITTAL NO. | | - | | △ | | | | | | | | | | | |
| Q: CENTERLINE | | WP/⬢: WORK POINT | | CUSTOMER APPROVAL | | - | | △ | | | | | | | | | | | |
| REF: REFERENCE | | GA: GAUGE | | SHOP REVIEW | | 6-16-11 | | △ | | | | | | | | | | | |
| CHK: CHECK | | ID: INSIDE DIAMETER | | PRE FAB MTG | | - | | △ | | | | | | | | | | | |
| O\O: OUT TO OUT | | OD: OUTSIDE DIAMETER | | APPROVED FOR FAB | | - | | △ | | | | | | | | | | | |
| C\C: CENTER TO CENTER | | BRG: BEARING | | | | | | | | | | | | | | | | | |
| F\F: FACE TO FACE | | TYP: TYPICAL | | | | | | | | | | | | | | | | | |
| DIA/∅: DIAMETER | | UNO: UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | |
| R: RADIUS | | ABUT: ABUTMENT | | | | | | | | | | | | | | | | | |
| | | T&B: TOP & BOTTOM | | | | | | | | | | | | | | | | | |
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DATE PLOTTED June 16, 2011

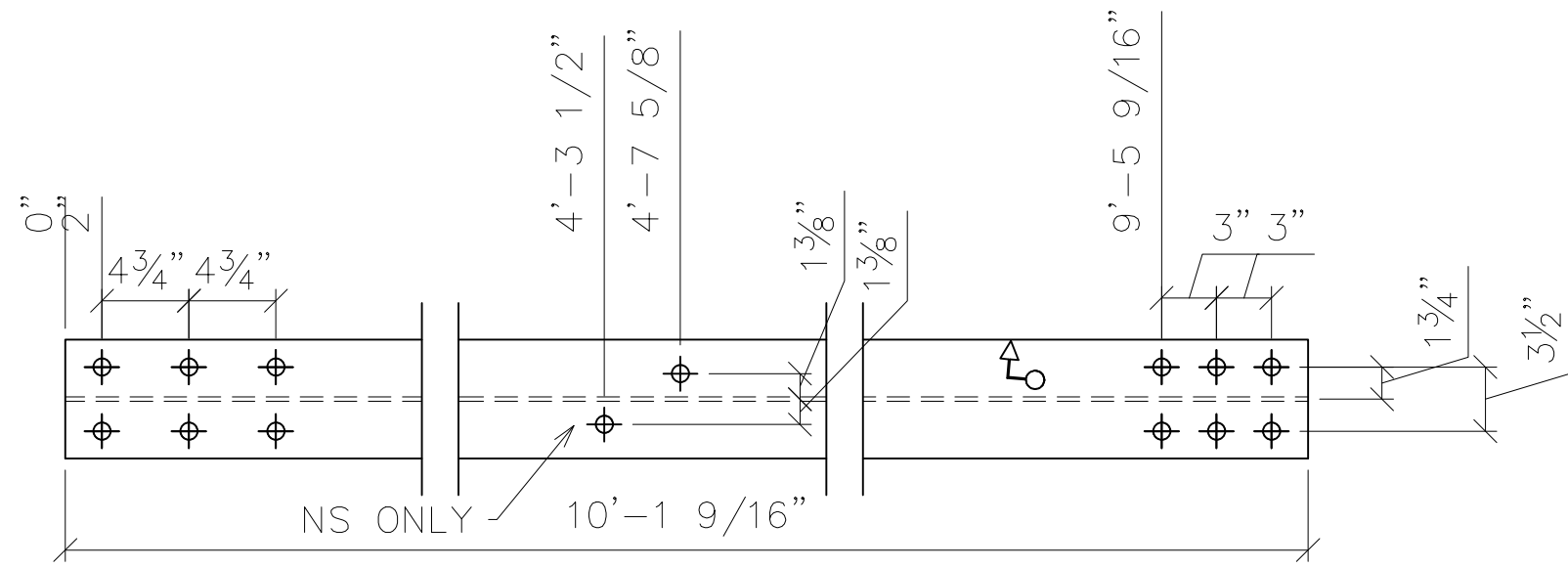
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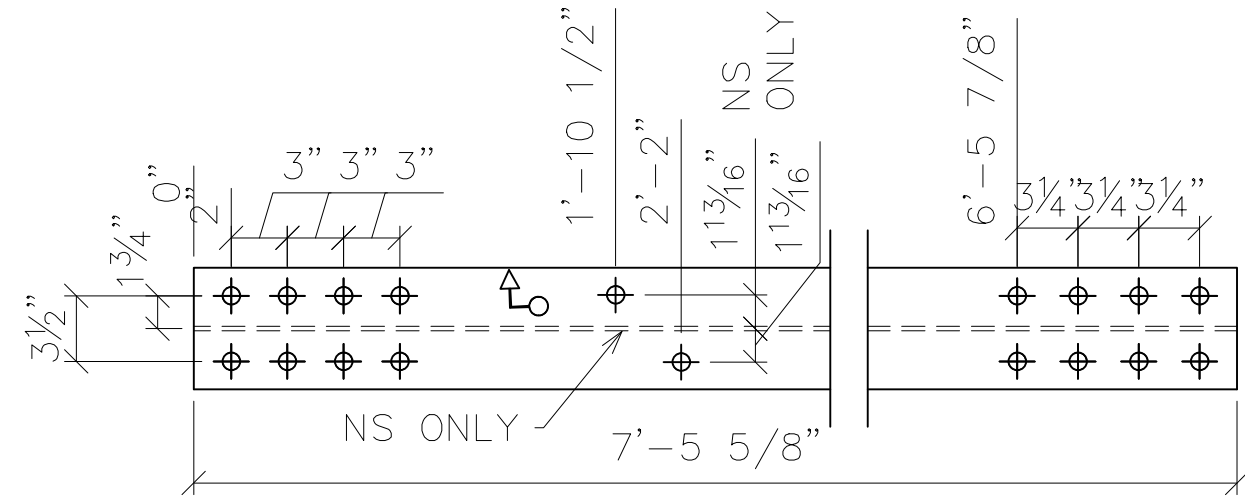
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W12X26 (9'-1 15/16") WEATH



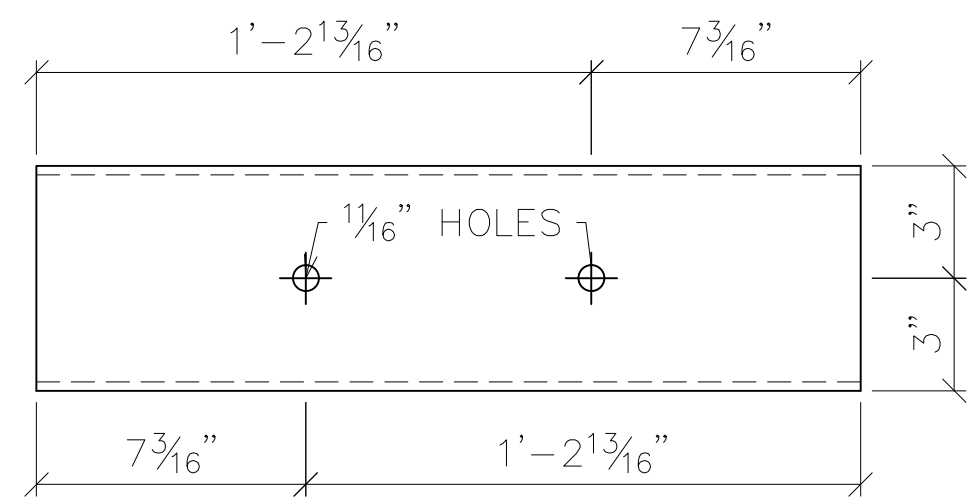
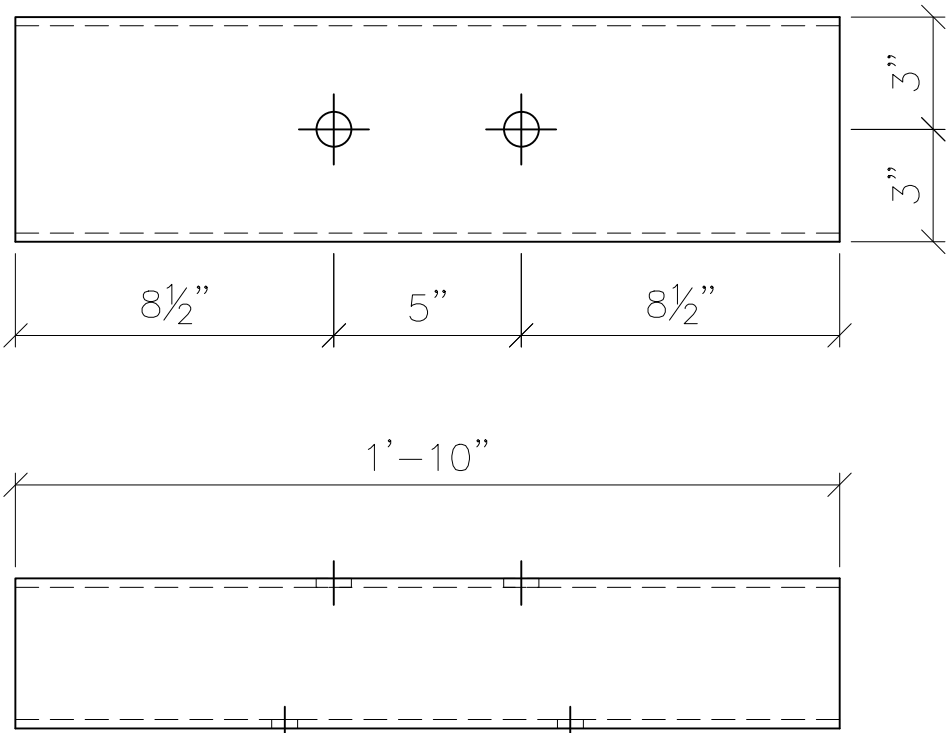
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W12X26 (9'-3 9/16") WEATH



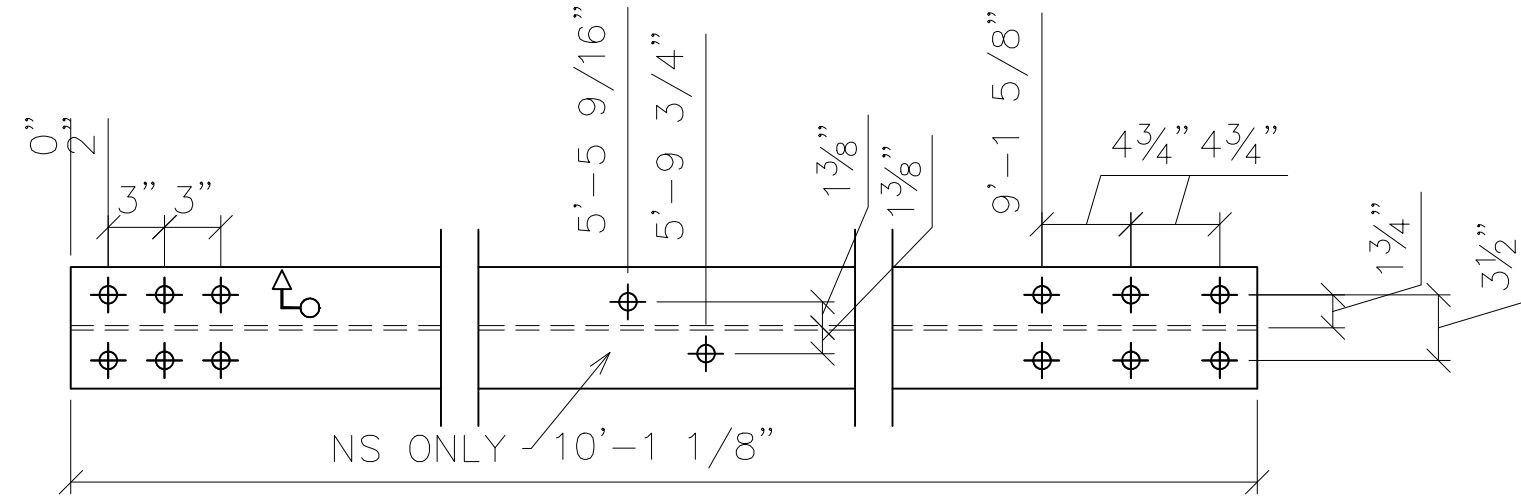
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W12X26 (10'-1 9/16") WEATH



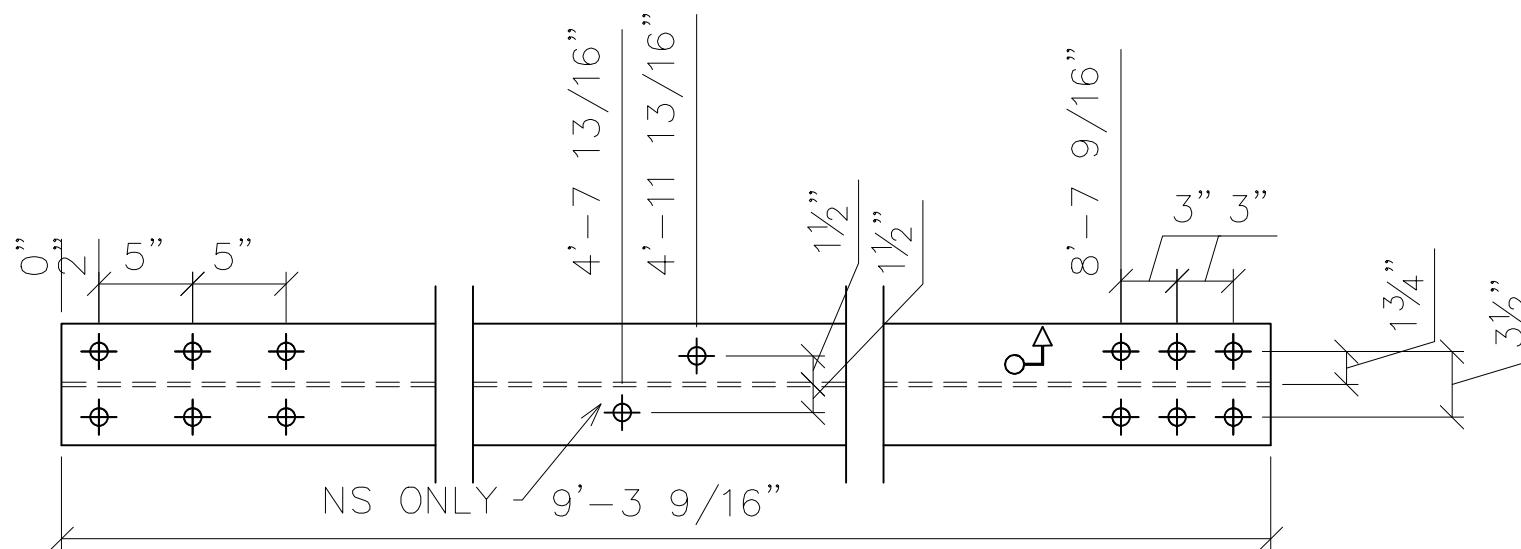
2 - DIAGONAL BRACE - d1
W12X26 (7'-5 5/8") WEATH



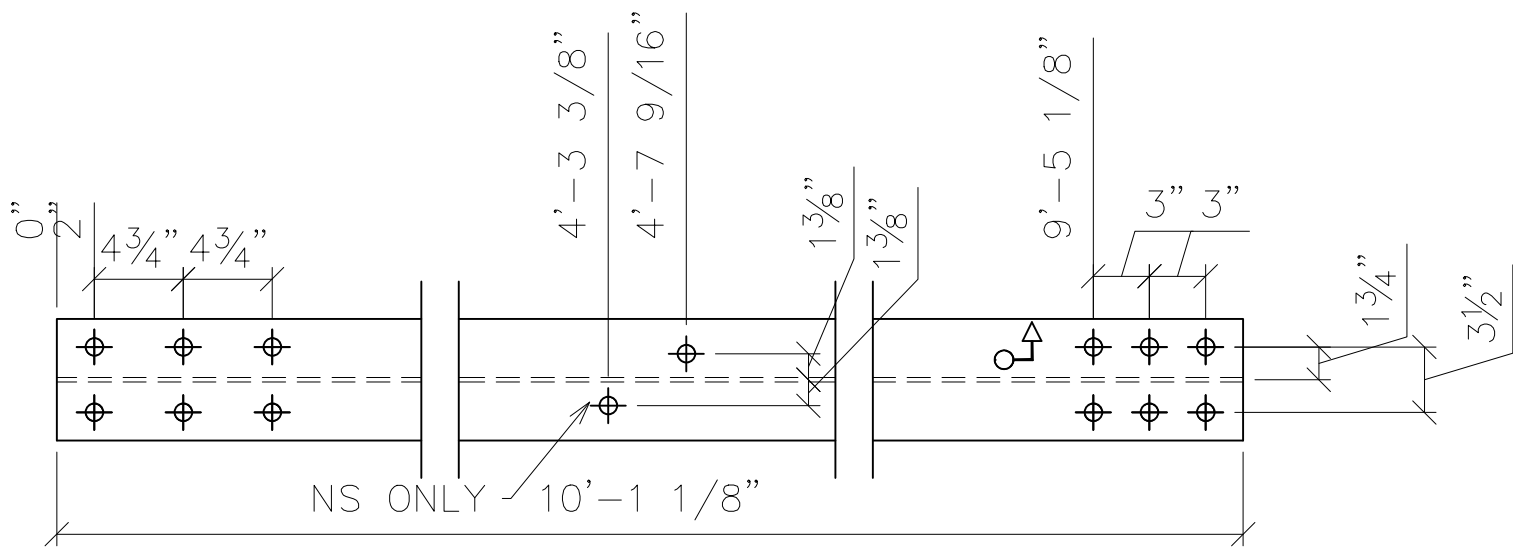
24 - GUARDRAIL BLOCKOUT - gb1
HSS6X4X.250 (1'-10") GALV



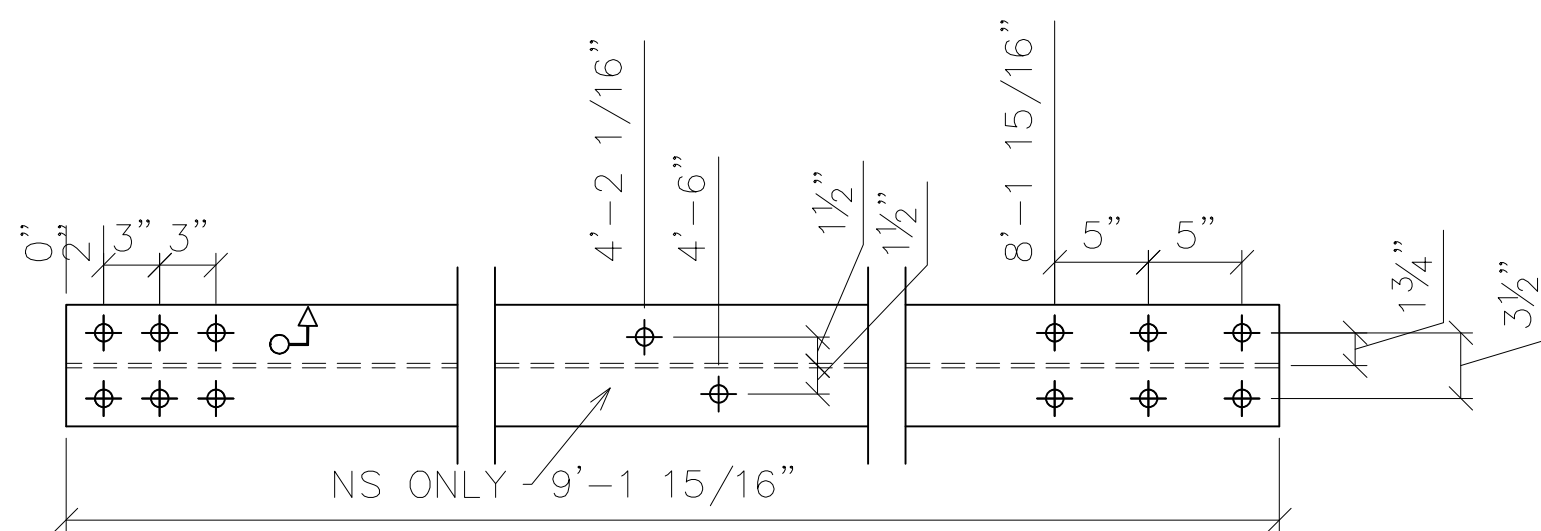
2 - DIAGONAL BRACE - d5
W12X26 (10'-1 1/8") WEATH



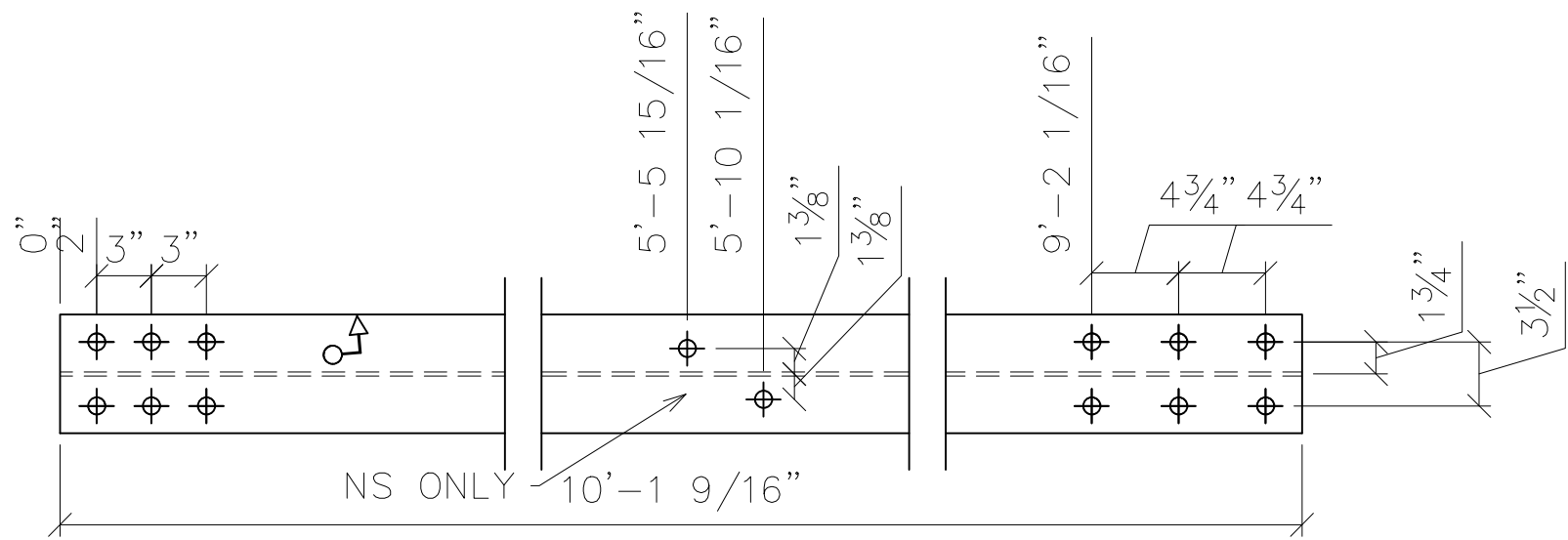
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W12X26 (9'-3 9/16") WEATH



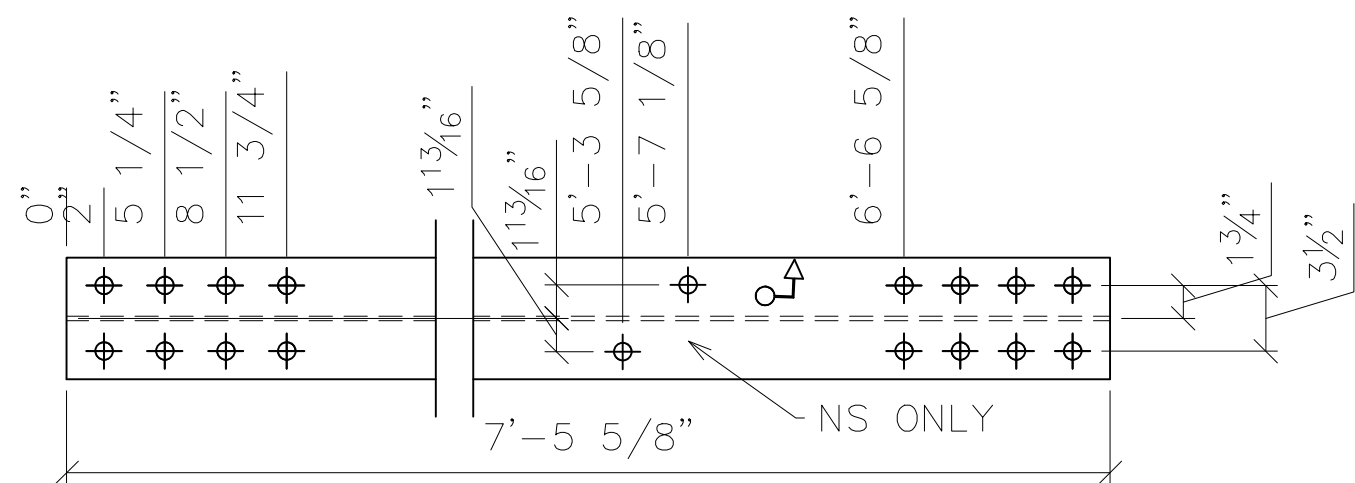
2 - DIAGONAL BRACE - d6
W12X26 (10'-1 1/8") WEATH



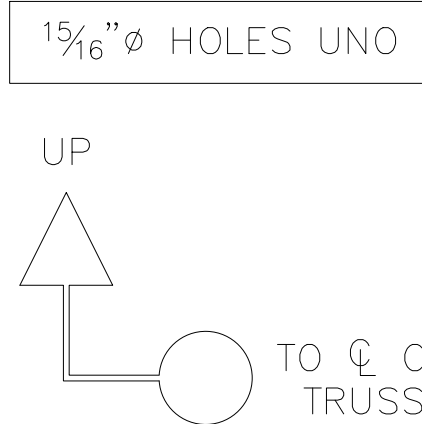
2 - DIAGONAL BRACE - d9
W12X26 (9'-1 15/16") WEATH



2 - DIAGONAL BRACE - d7
W12X26 (10'-1 9/16") WEATH



2 - DIAGONAL BRACE - d10
W12X26 (7'-5 5/8") WEATH



SYMBOLS & ABBREVIATIONS

| | |
|-----------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| CL: CENTERLINE | WP: WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O/O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C/C: CENTER TO CENTER | BRG: BEARING |
| F/F: FACE TO FACE | TYP: TYPICAL |
| DIA/Ø: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

DIST. BY:

FAB. BY:



SUBMITTAL LOG

DATE

NO:

DATE:

REVISIONS:

BY:

| | | | | | |
|-------------------|---------|---|--|--|--|
| INITIAL SUBMITTAL | 6-16-11 | ▲ | | | |
| RESUBMITTAL NO. | - | ▲ | | | |
| CUSTOMER APPROVAL | - | ▲ | | | |
| SHOP REVIEW | 6-16-11 | ▲ | | | |
| PRE FAB MTG | - | ▲ | | | |
| APPROVED FOR FAB | - | ▲ | | | |

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF

DRAW: CRM

REVIEW: DLM

CHECK: AEC

SHOP DETAILS

PROFILES

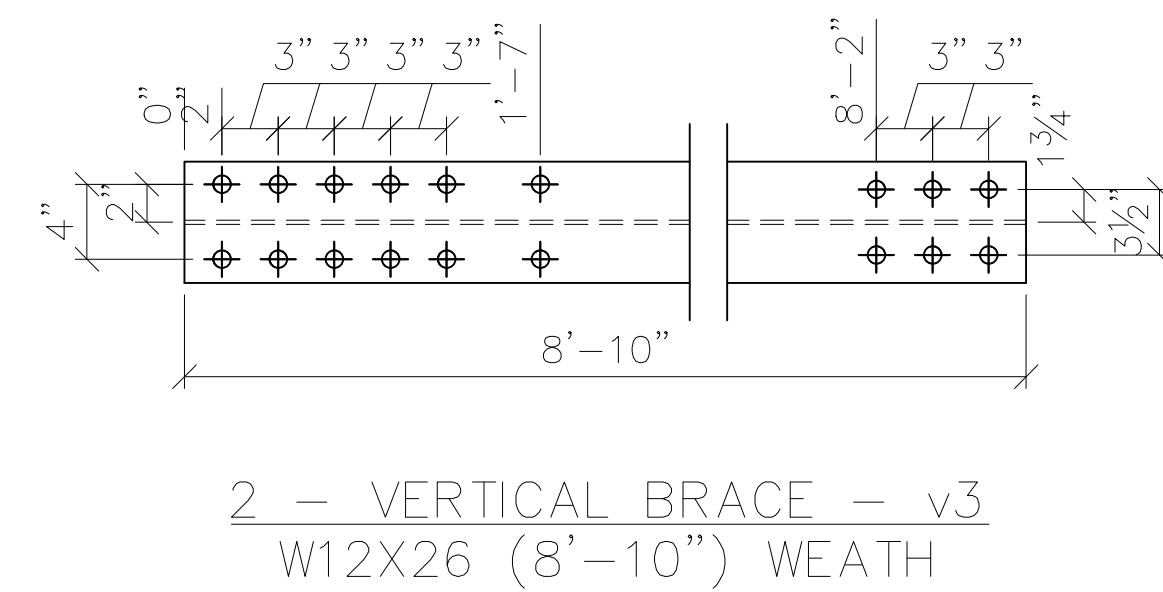
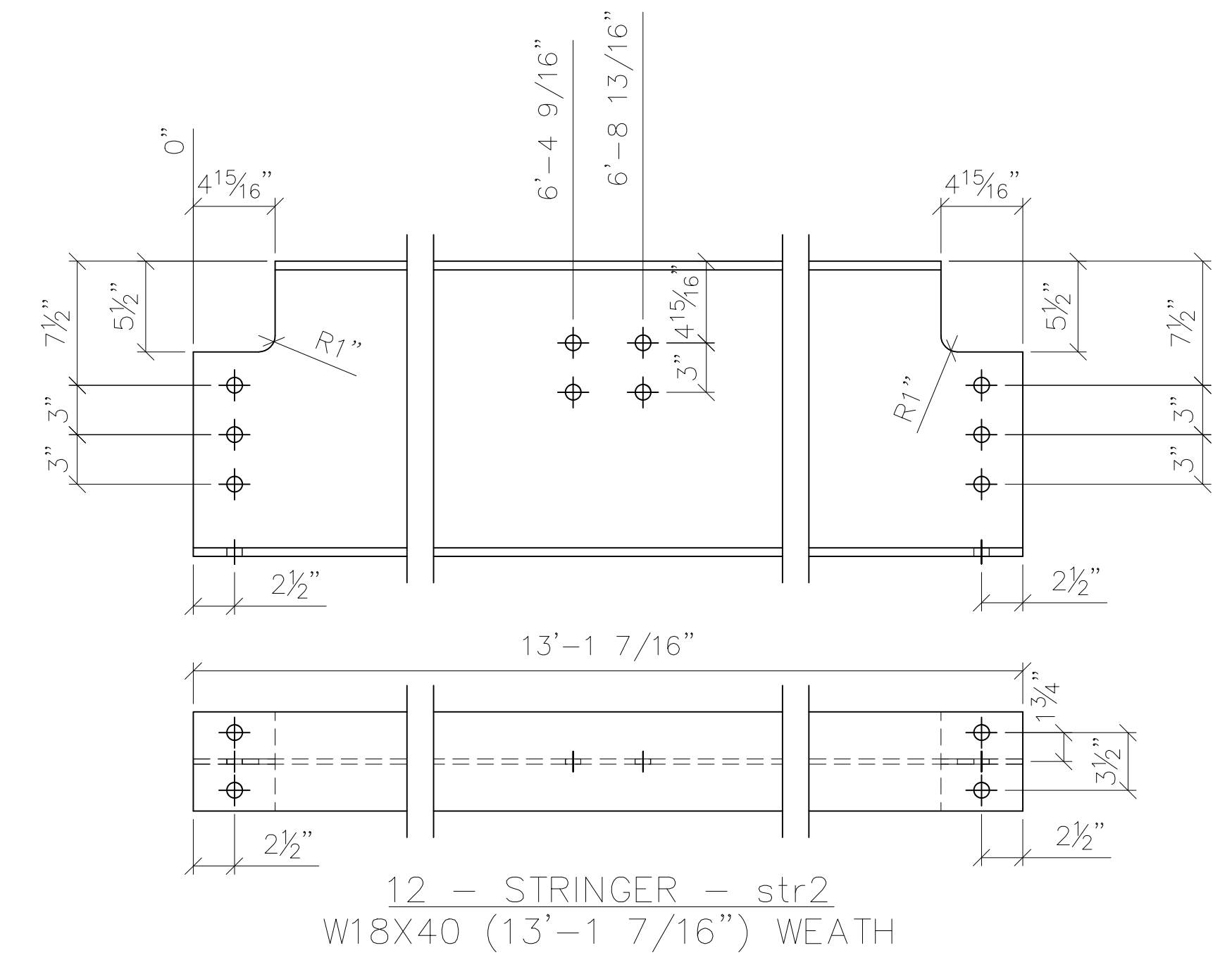
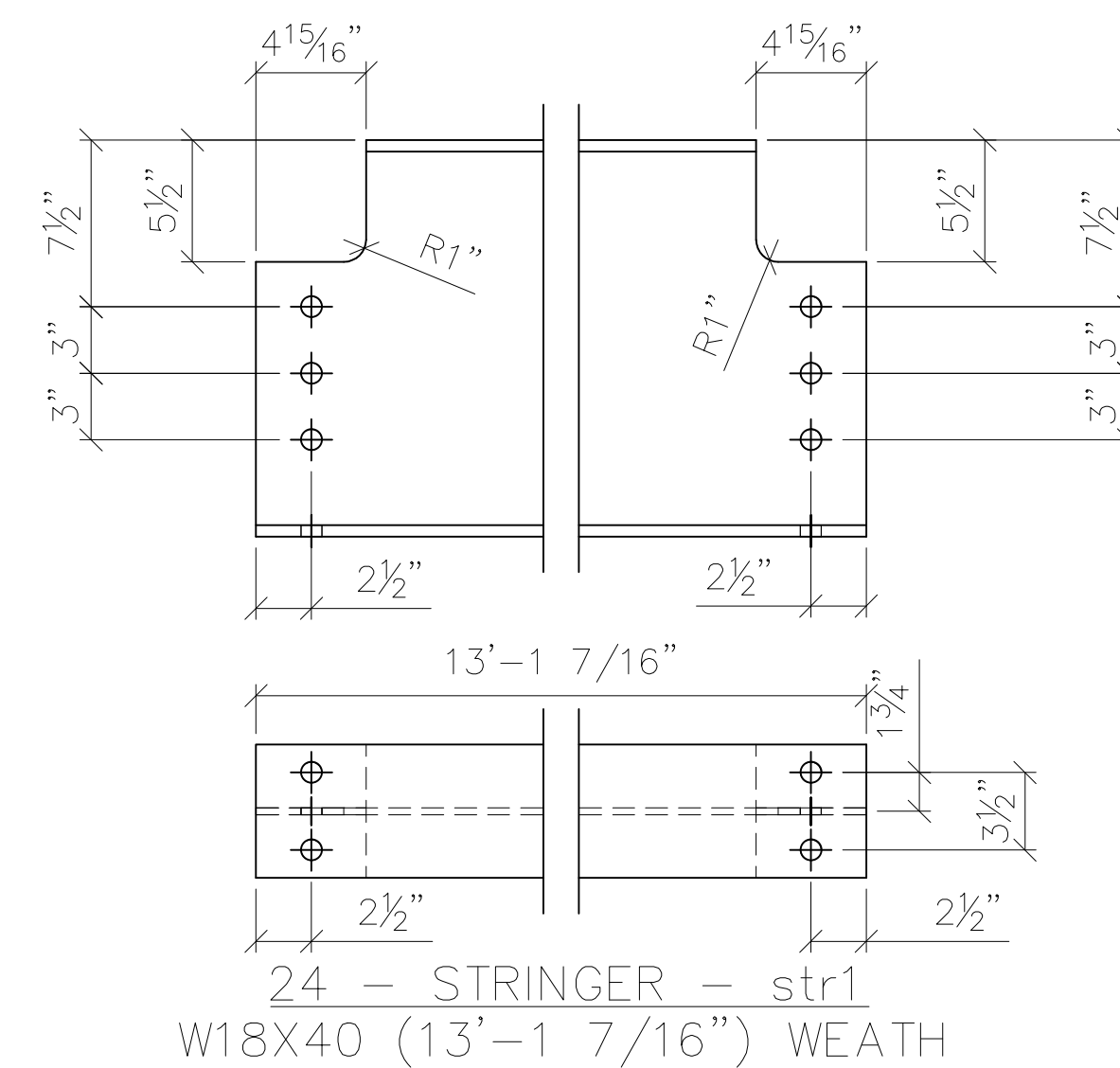
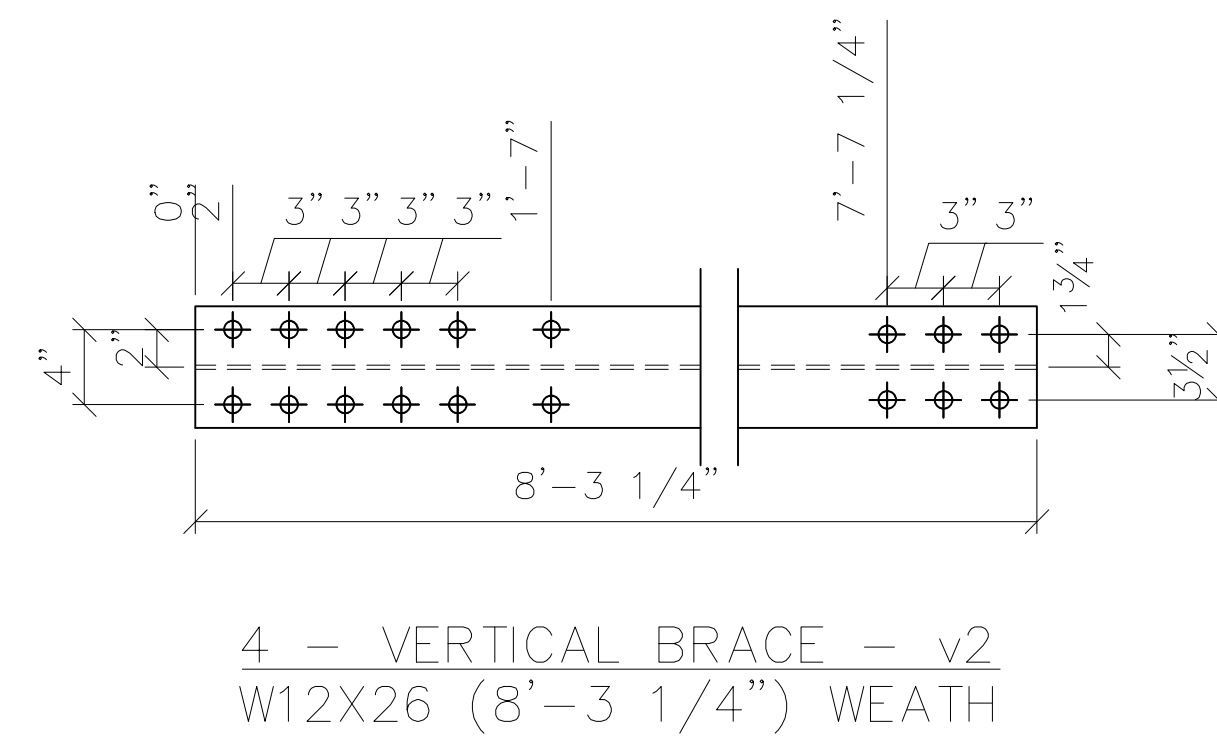
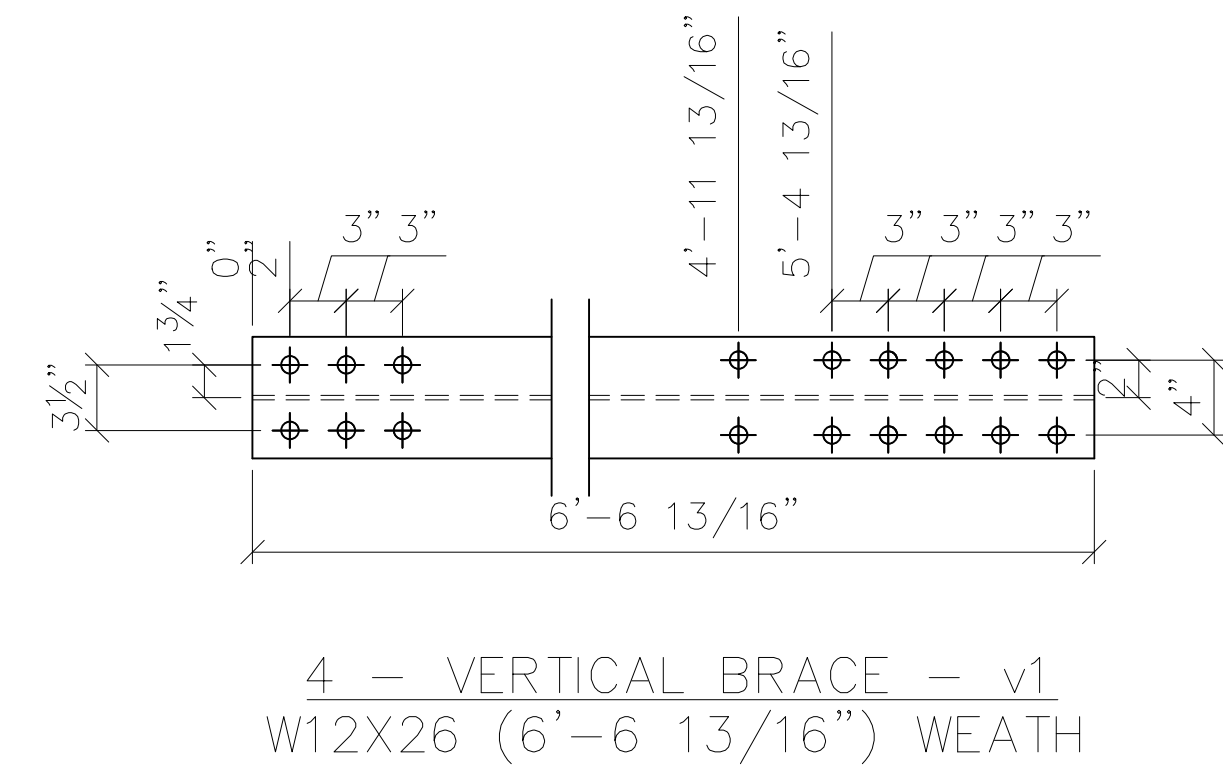
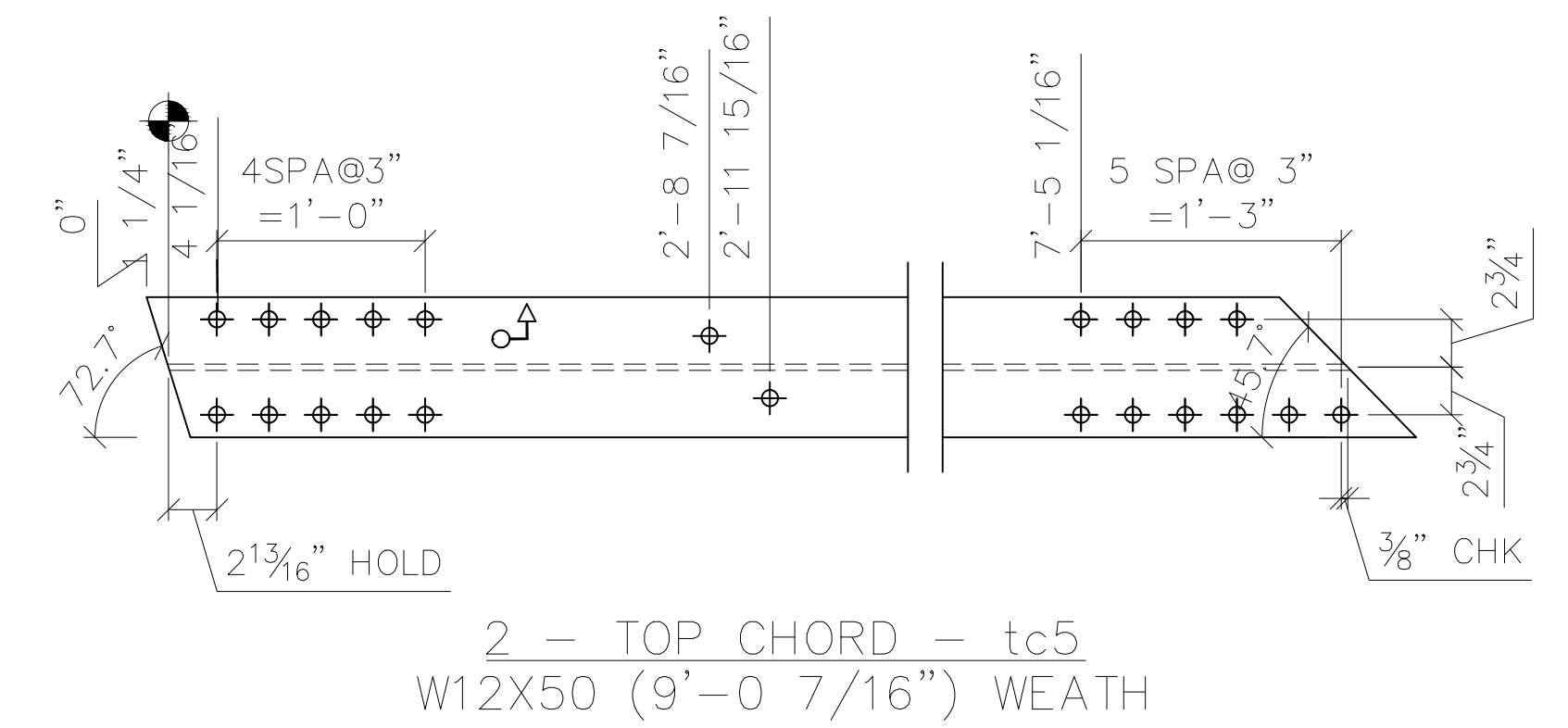
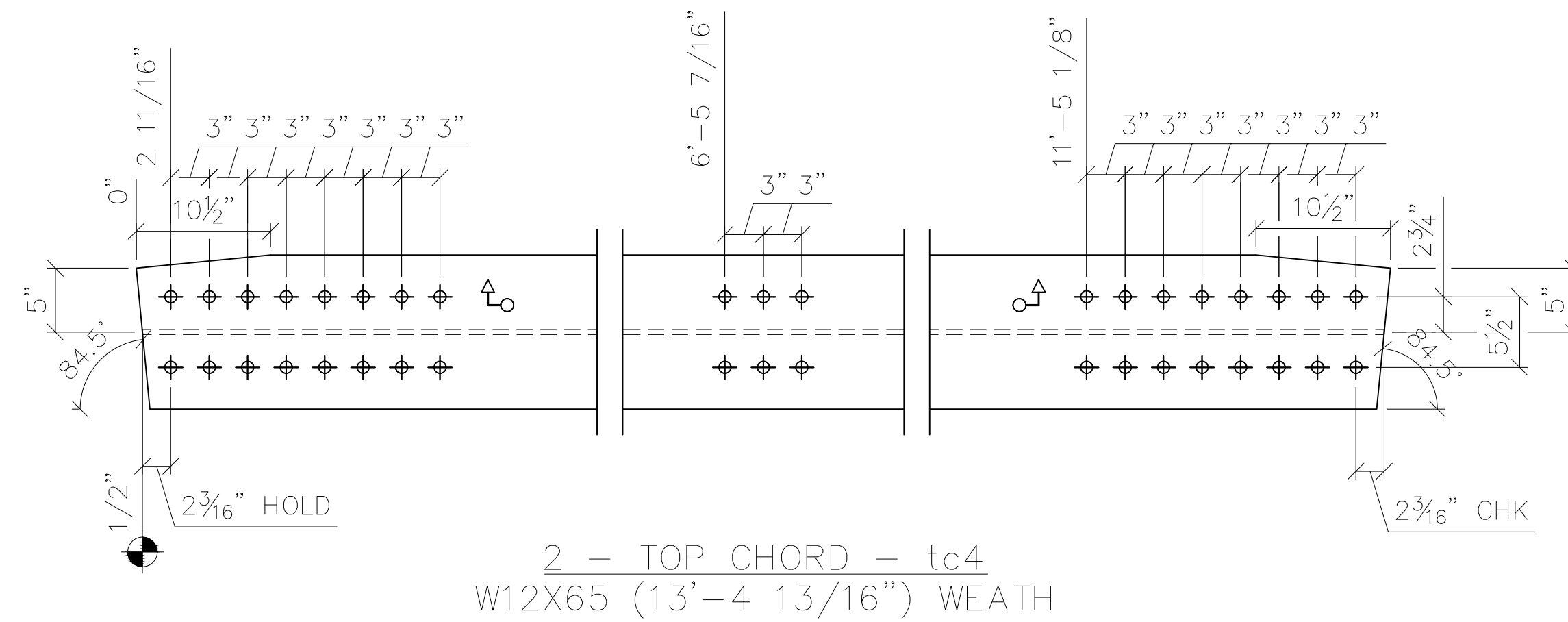
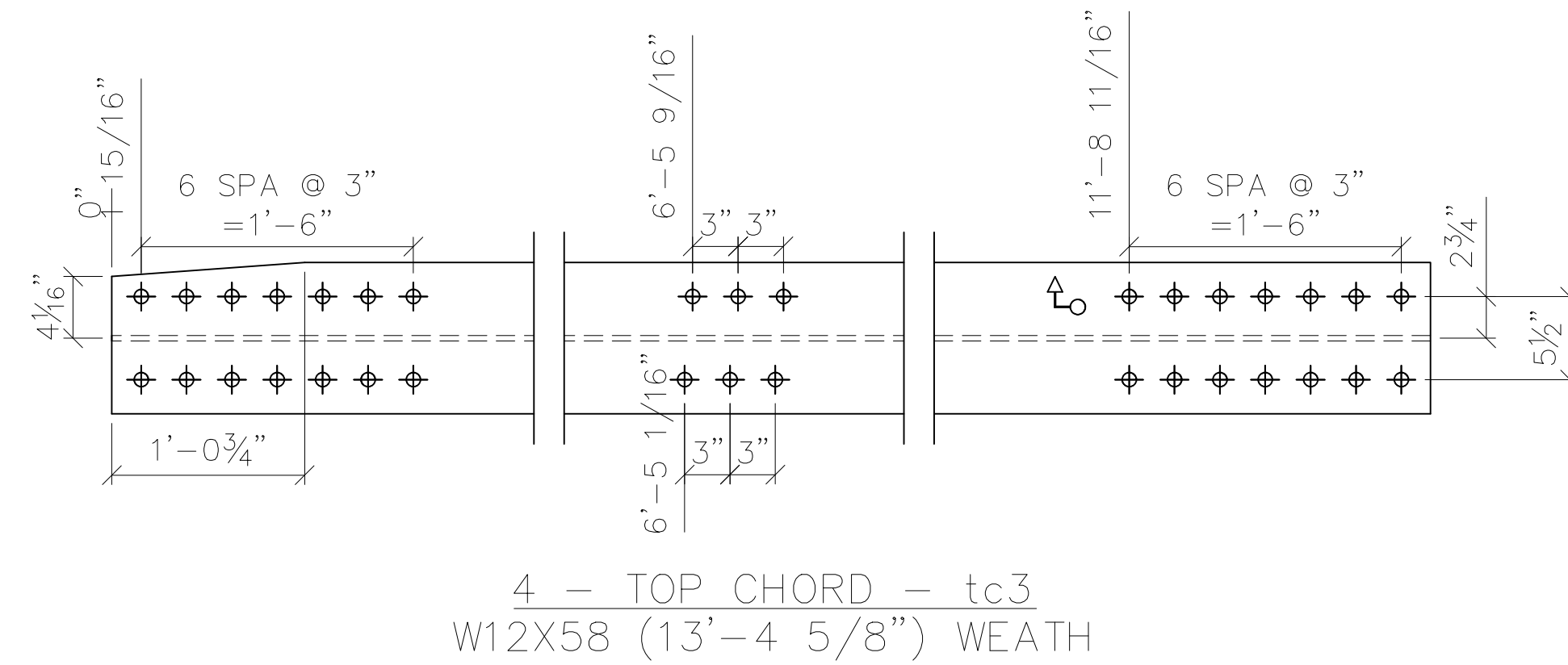
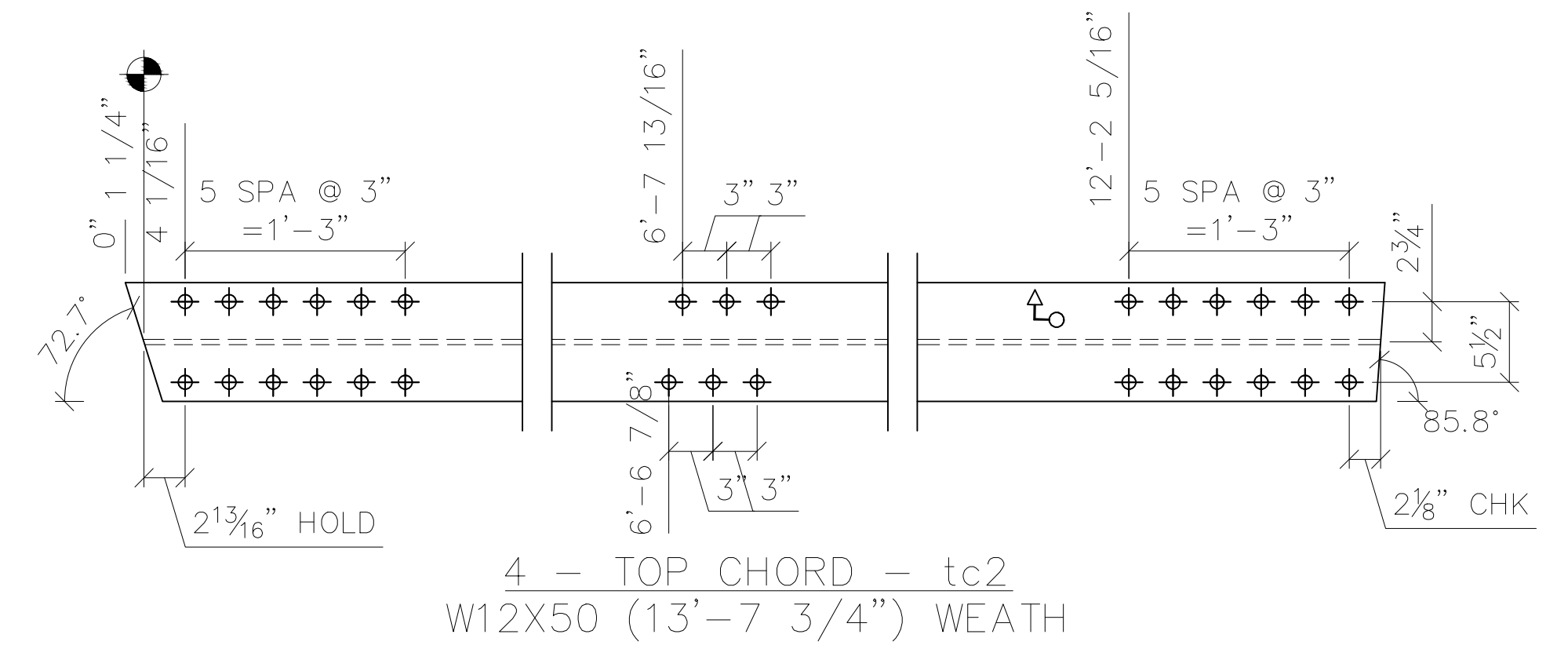
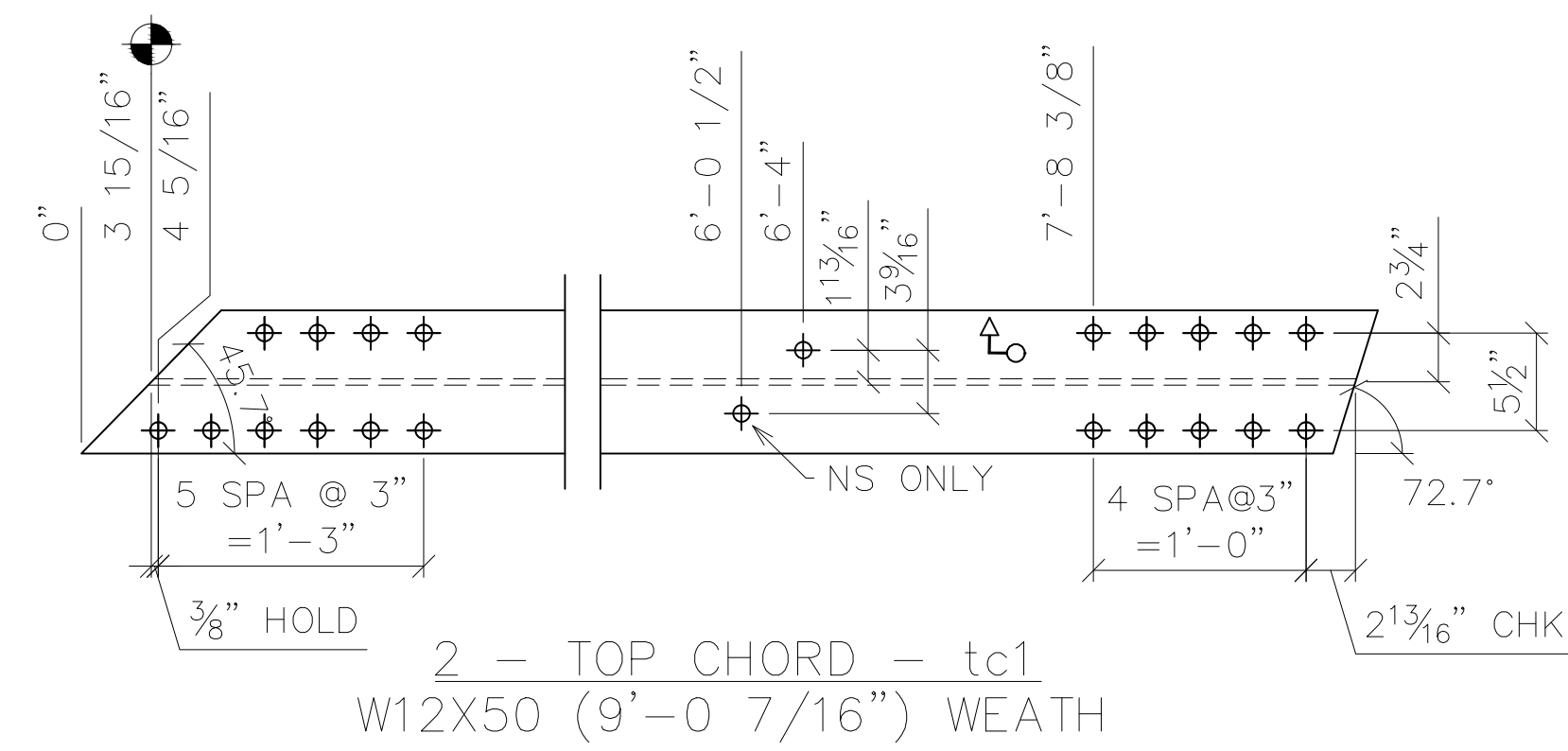
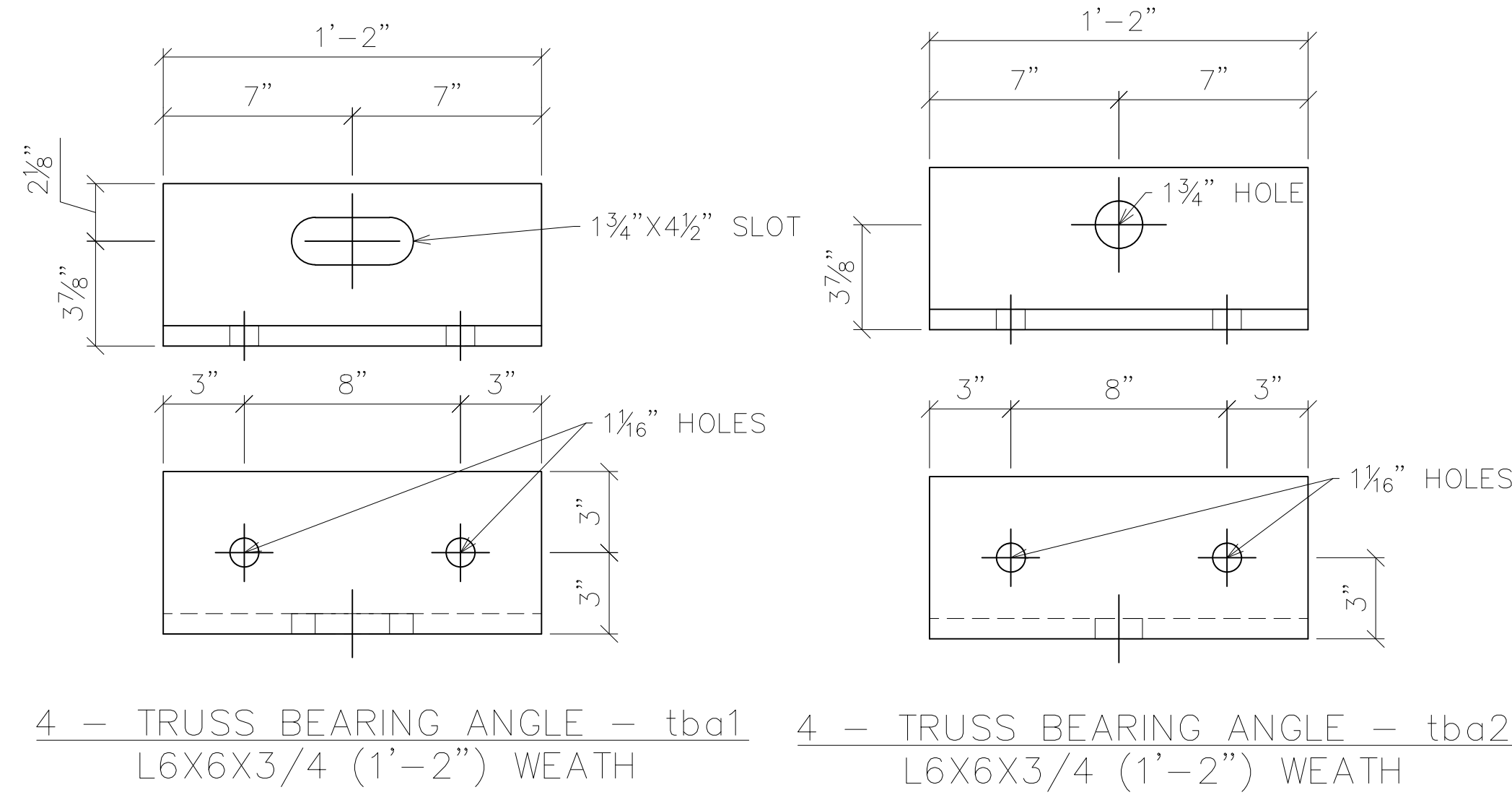
USB JOB#
50462

SHEET

11a


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TOTAL





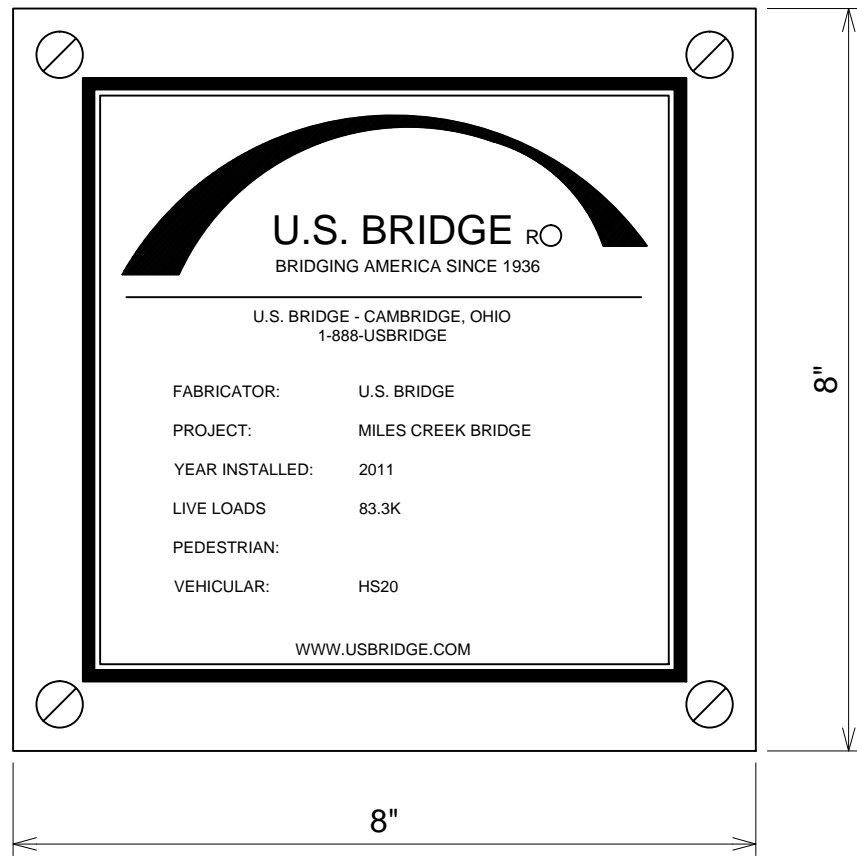
15¹/₁₆" Ø HOLES UNO

UP

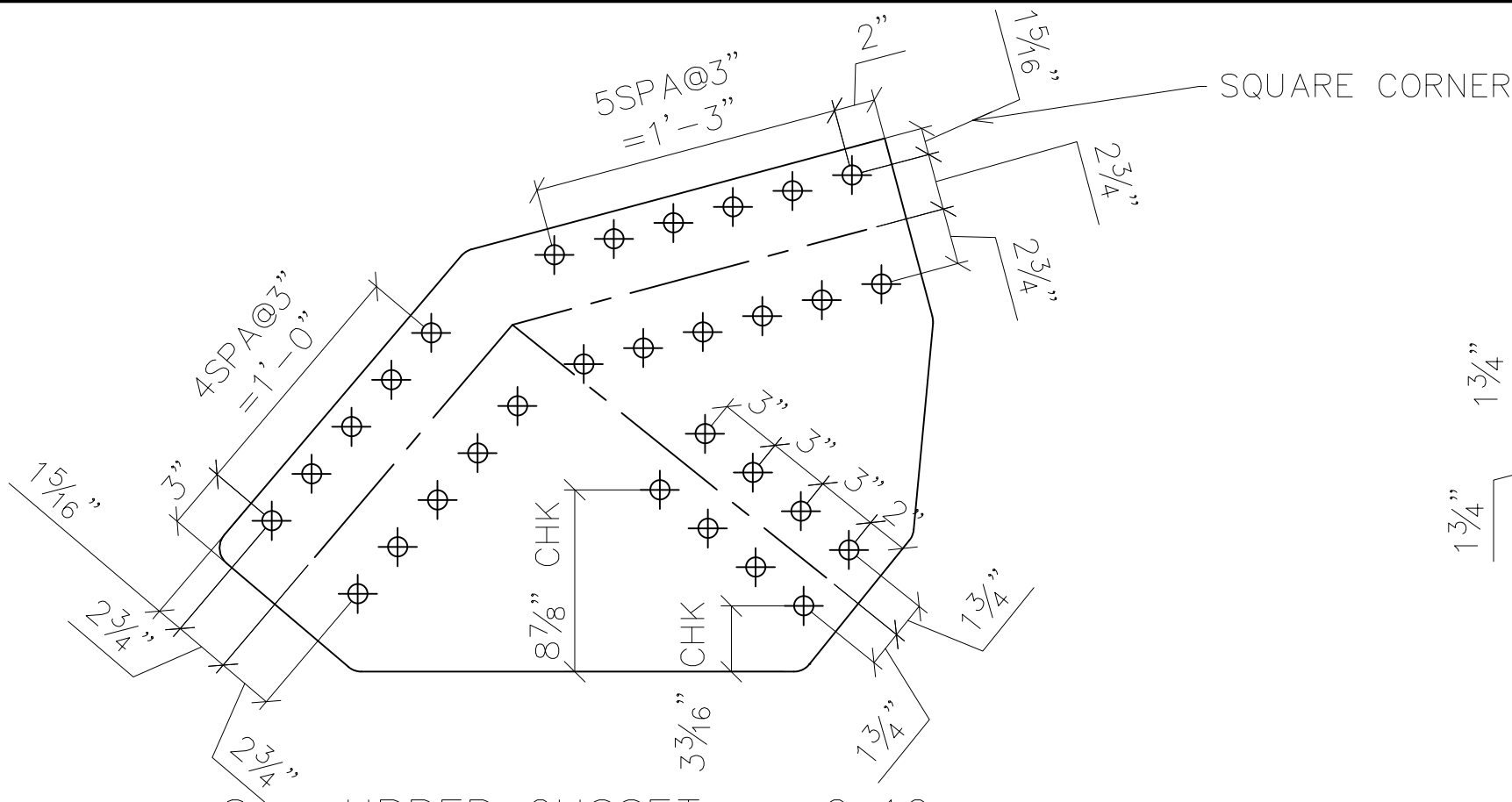


TO CL OF TRUSS

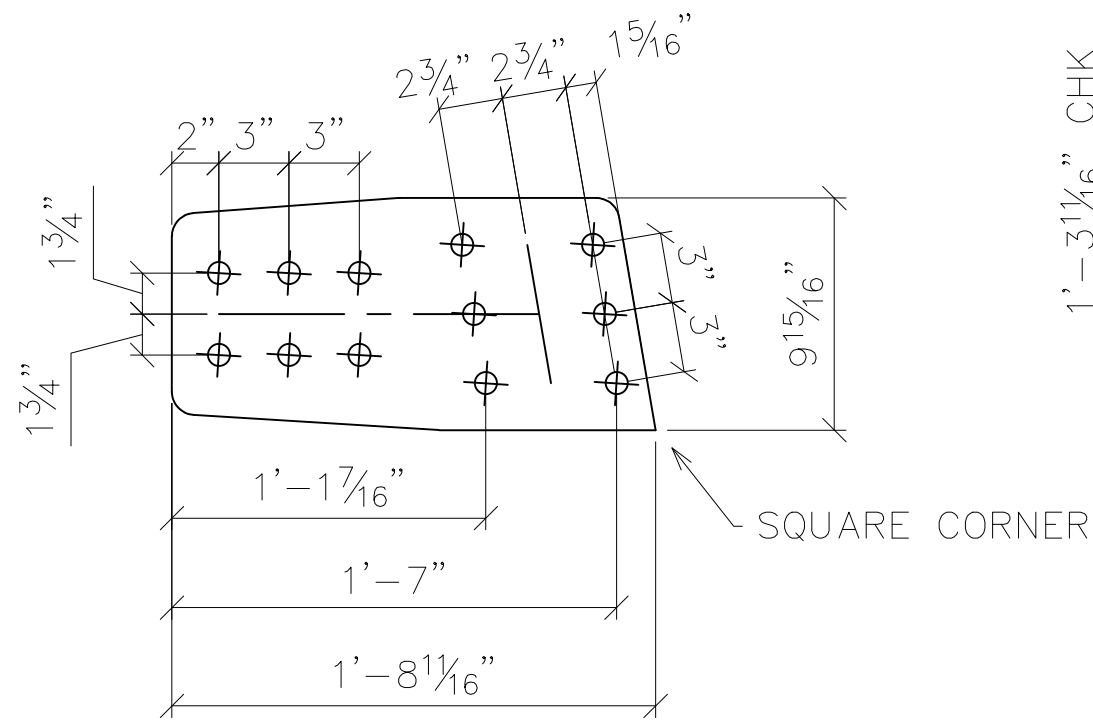
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|-------------------------|-----------------------------|---|--|-------------------|---------|---|--|--|--|------|-----|-------|------------|--------------|--|--|------------|-------------------|-----|-------|----|
| SYMBOLS & ABBREVIATIONS | | DIST. BY: <div></div> | FAB. BY: <div></div> | SUBMITTAL LOG | | | | | | DATE | NO. | DATE: | REVISIONS: | BY: | MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS | ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | | | | | |
| ES: EACH SIDE | NS: NEAR SIDE | | | INITIAL SUBMITTAL | 6-16-11 | △ | | | | | | | | | | | | | | | |
| EQ: EQUAL | FS: FAR SIDE | RESUBMITTAL NO. | - | △ | | | | | | | | | | | | | | | | | |
| CL: CENTERLINE | WP/+: WORK POINT | CUSTOMER APPROVAL | - | △ | | | | | | | | | | | | | | | | | |
| GA: GAUGE | ID: INSIDE DIAMETER | SHOP REVIEW | 6-16-11 | △ | | | | | | | | | | | | | | | | | |
| REF: REFERENCE | OD: OUTSIDE DIAMETER | PRE FAB MTG | - | △ | | | | | | | | | | | | | | | | | |
| CHK: CHECK | BRG: BEARING | APPROVED FOR FAB | - | △ | | | | | | | | | | | | | | | | | |
| O\O: OUT TO OUT | TYP: TYPICAL | | | | | | | | | | | | | | | | | | | | |
| C\C: CENTER TO CENTER | UNO: UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | |
| F\F: FACE TO FACE | ABUT: ABUTMENT | | | | | | | | | | | | | | | | | | | | |
| DIA/Ø: DIAMETER | T&B: TOP & BOTTOM | | | | | | | | | | | | | | | | | | | | |
| R: RADIUS | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | DESIGN: SAF | DRAW: CRM | REVIEW: DLM | CHECK: AEC | SHEET | 11b | | 22 |
| | | | | | | | | | | | | | | SHOP DETAILS | | PROFILES | | USB JOB# 50462 | | TOTAL | |



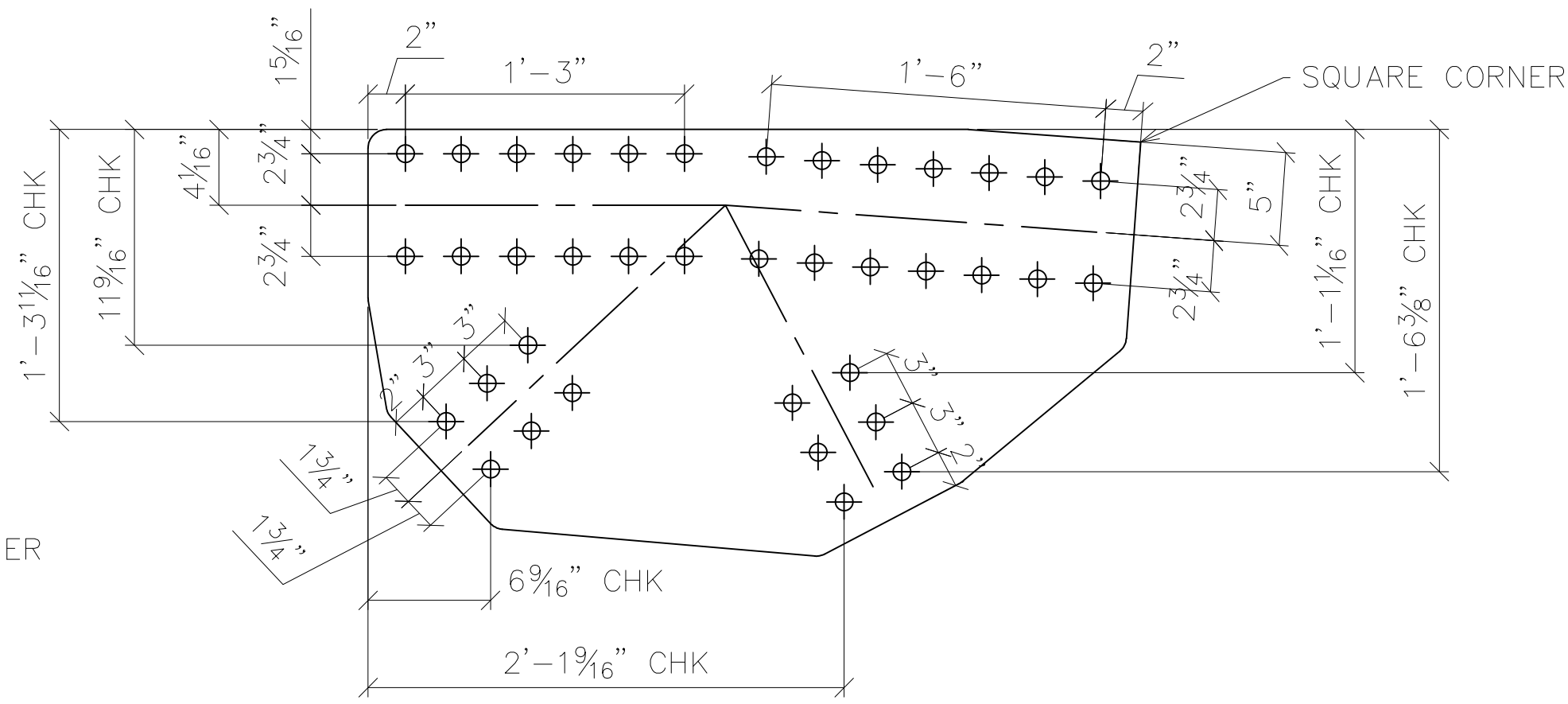
2 - PLAQUE - plaq 1



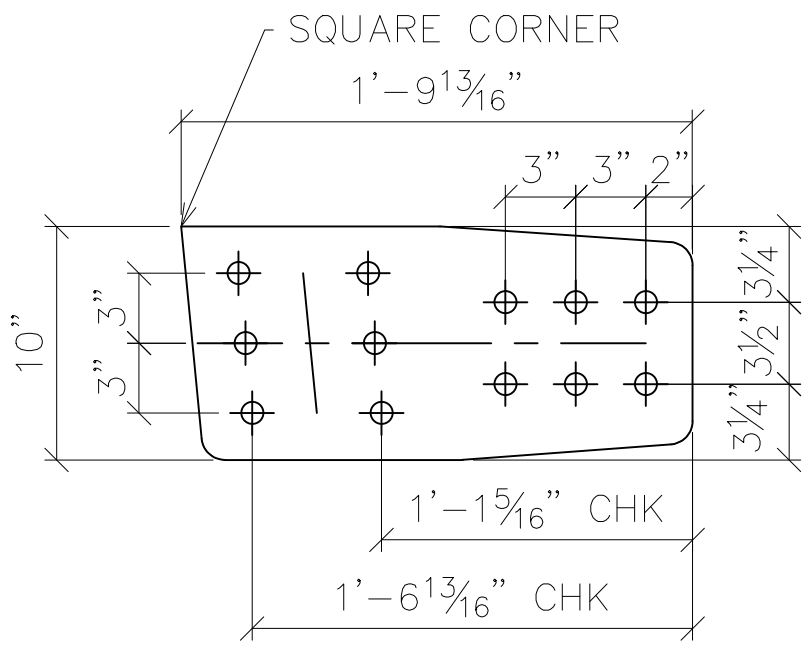
8 - UPPER GUSSET - u2u12
Plate 1/2"x2'-1 15/16"x2'-10 3/4" (WEATH)
ALL CORNERS = 1"R UNO



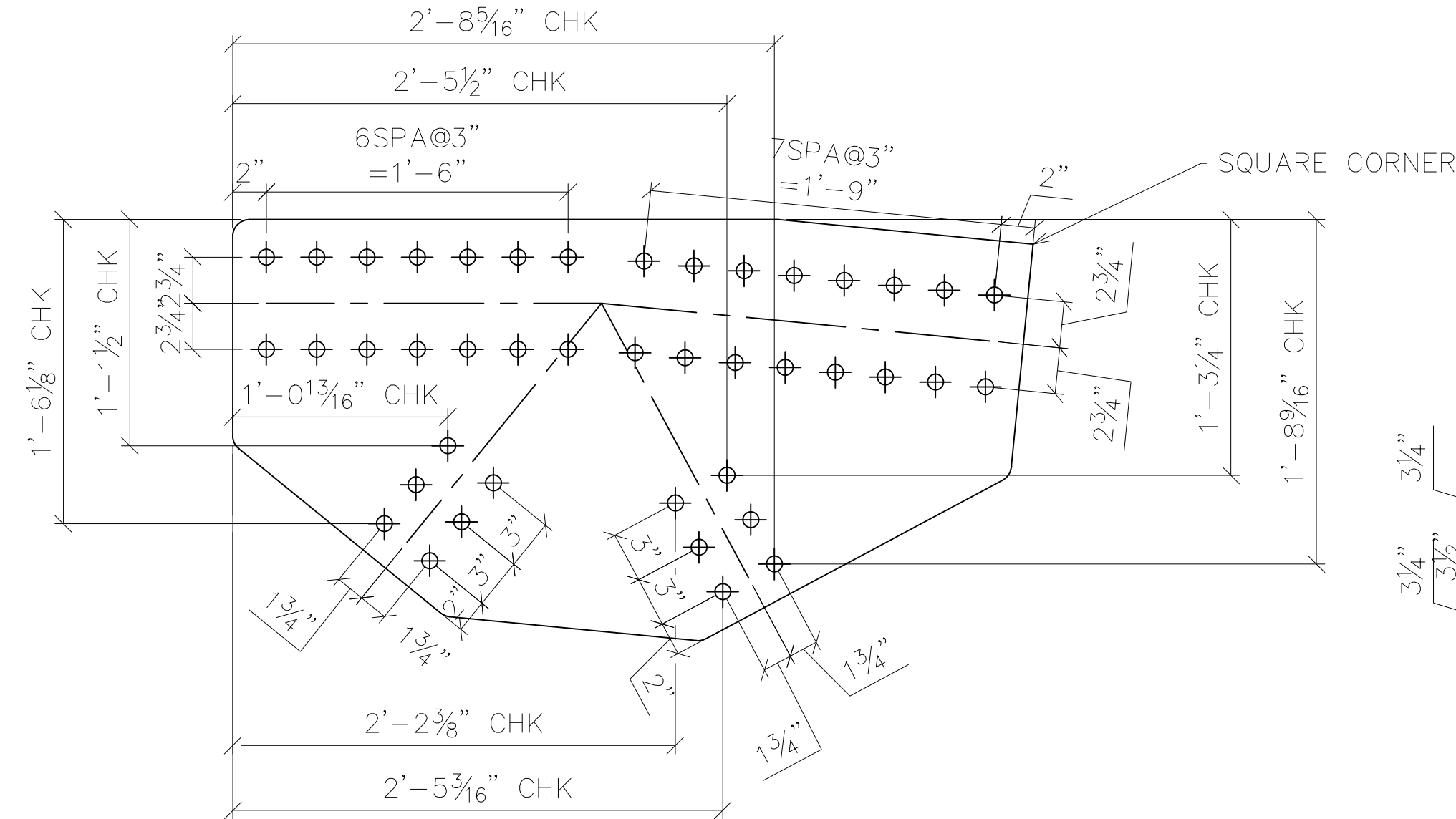
8 - UPPER GUSSET - u3u11
Plate 1/2"x10 5/16"x1'-9 1/8" (WEATH)
ALL CORNERS = 1"R UNO



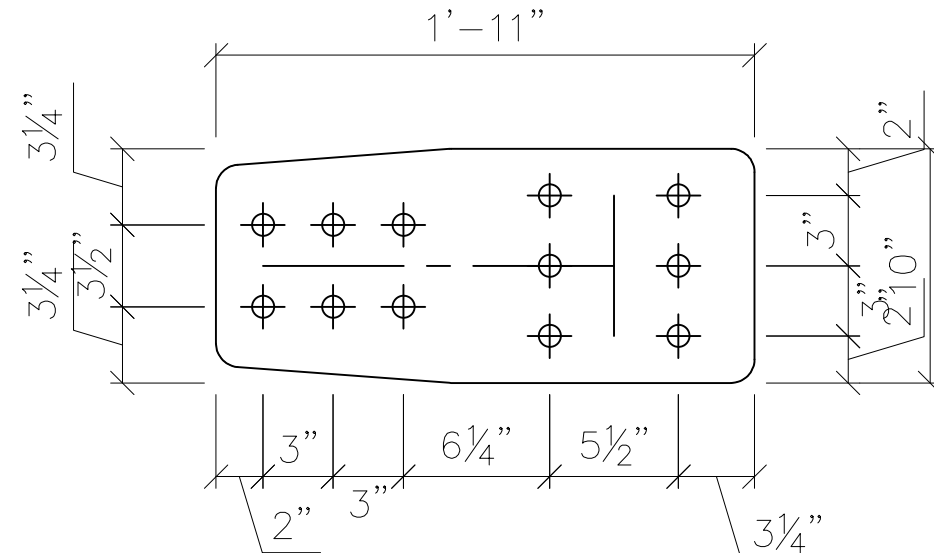
8 - UPPER GUSSET - u4u10
Plate 1/2"x1'-10 15/16"x3'-5 1/2" (WEATH)
ALL CORNERS = 1"R UNO



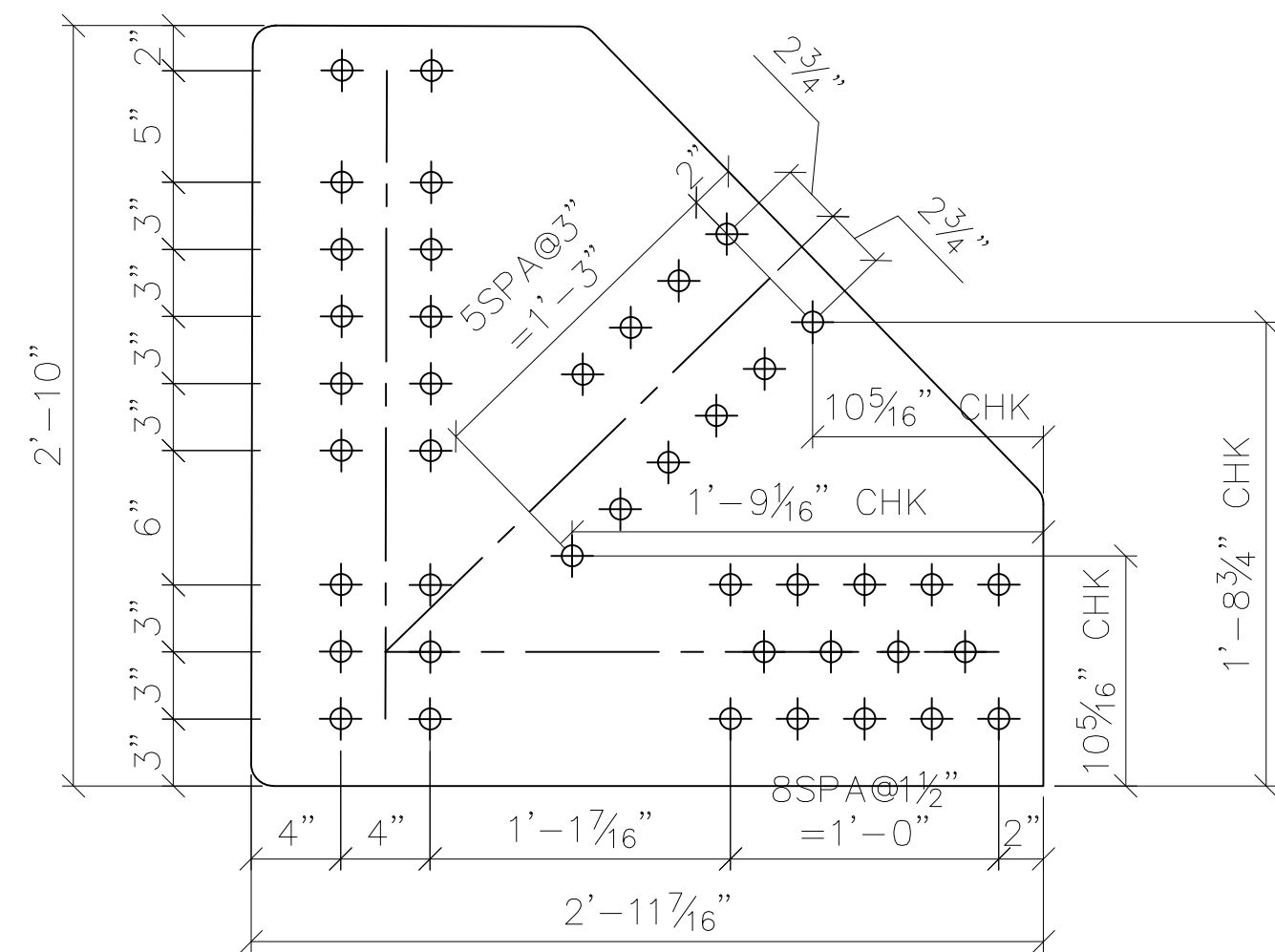
8 - UPPER GUSSET - u5u9
Plate 1/2"x10"x1'-9 7/8" (WEATH)
ALL CORNERS = 1"R UNO



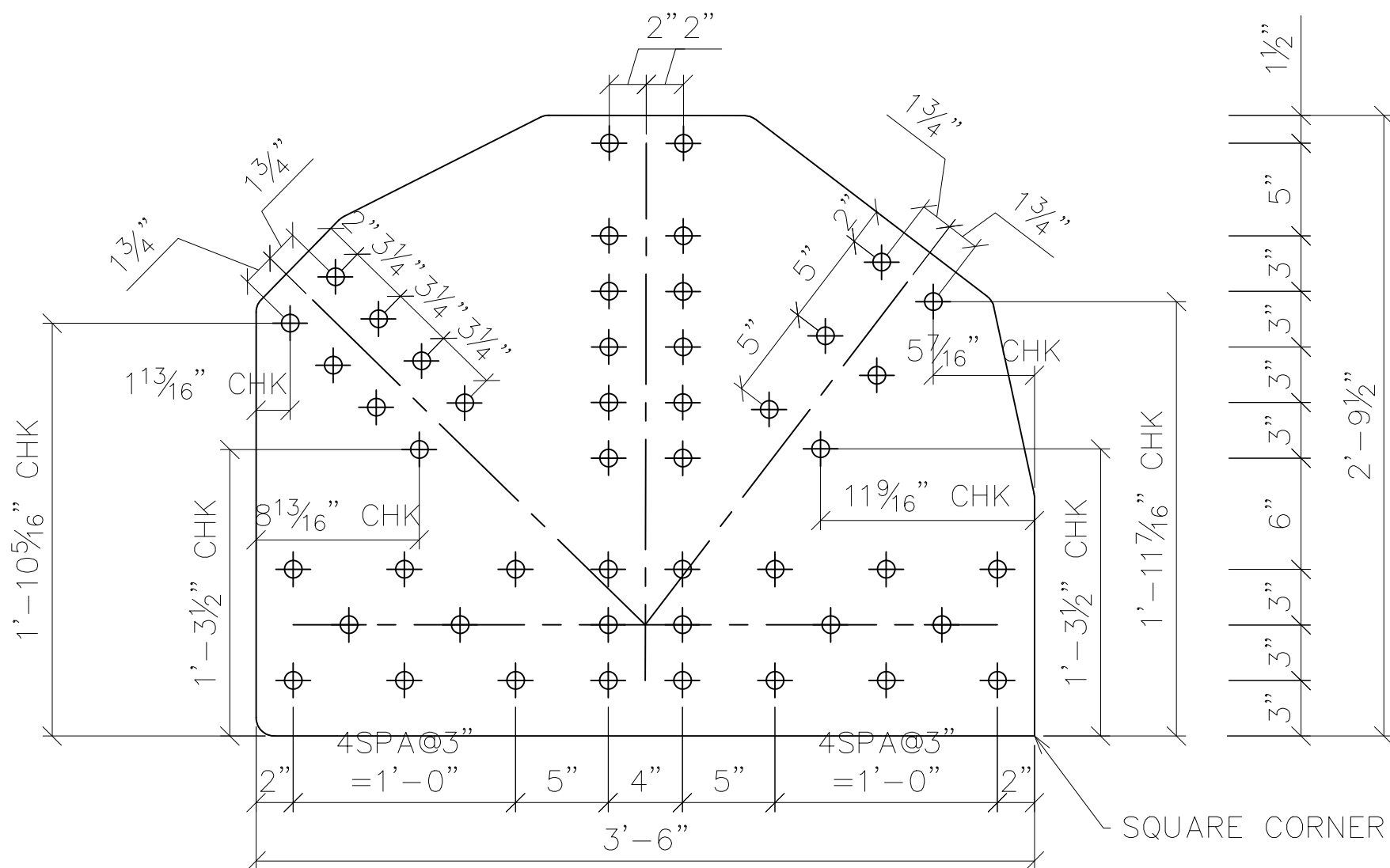
8 - UPPER GUSSET - u6u8
Plate 1/2"x2'-1 1/8"x3'-11 3/4" (WEATH)
ALL CORNERS = 1"R UNO



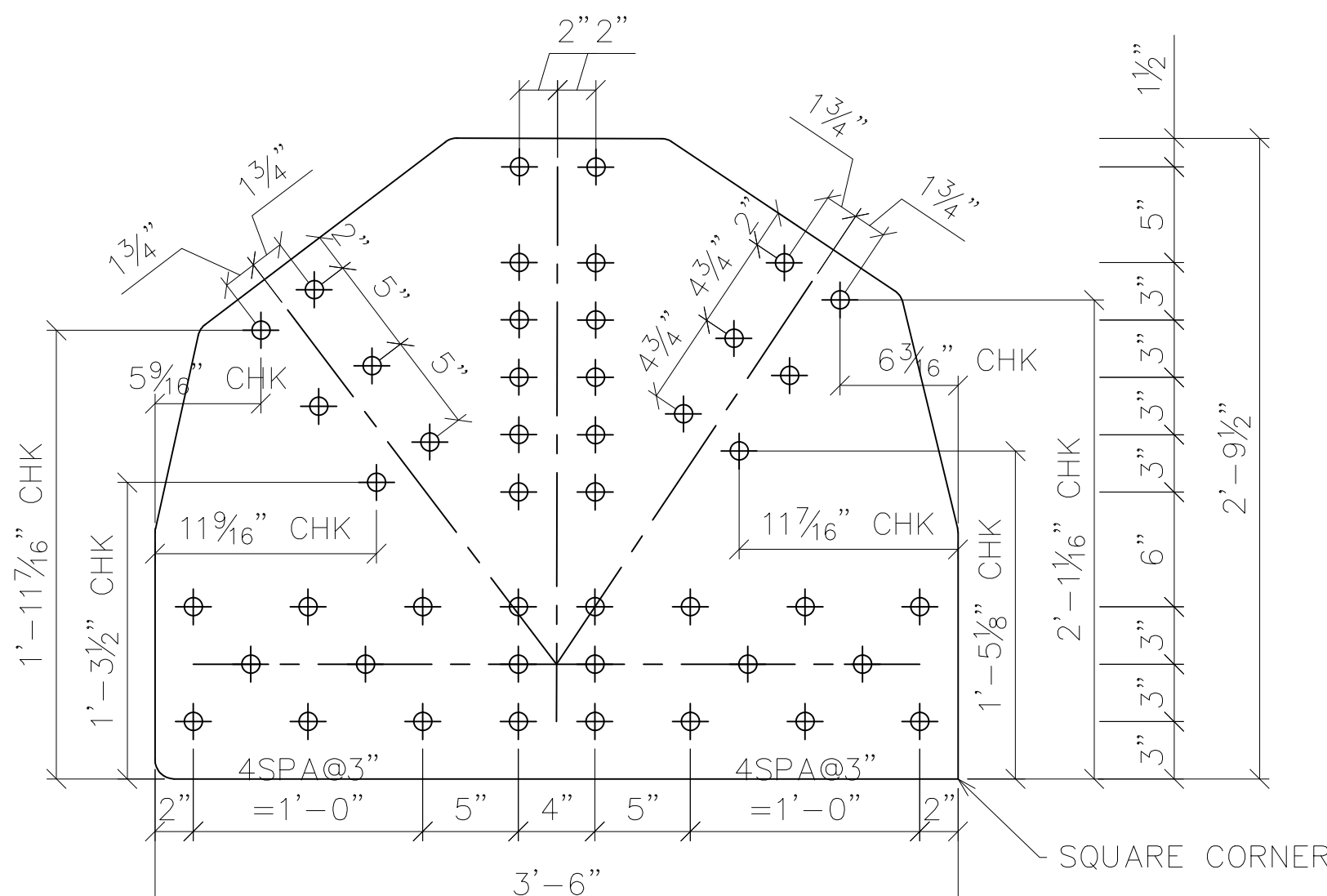
4 - UPPER GUSSET - u7
Plate 1/2"x10"x1'-11" (WEATH)
ALL CORNERS = 1"R UNO



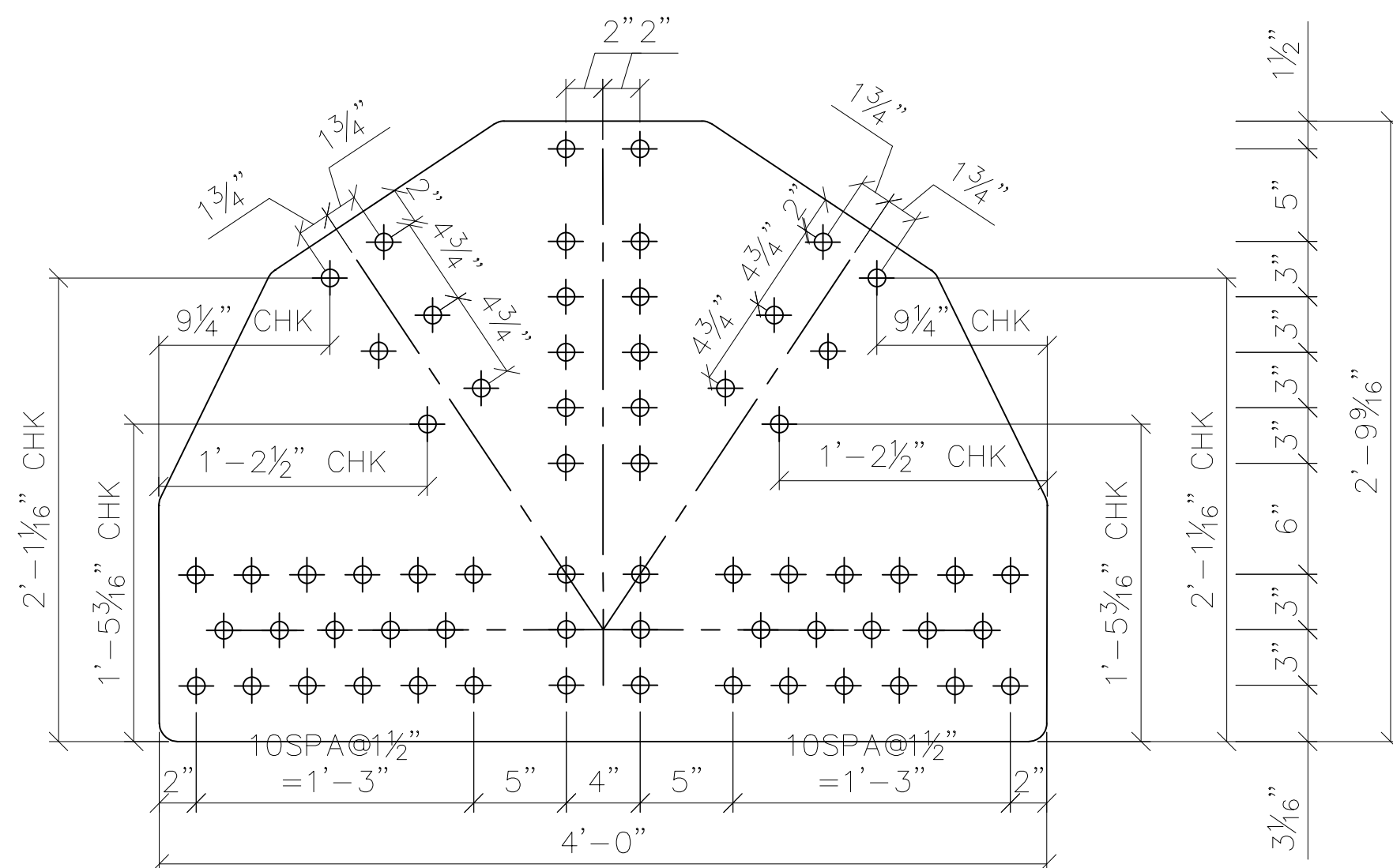
8 - LOWER GUSSET - l1l13
Plate 1/2"x2'-10"x2'-11 7/16" (WEATH)
ALL CORNERS = 1"R UNO



8 - LOWER GUSSET - l3l11
Plate 1/2"x2'-9 1/2"x3'-6" (WEATH)
ALL CORNERS = 1"R UNO



8 - LOWER GUSSET - l5l9
Plate 1/2"x2'-9 1/2"x3'-6" (WEATH)
ALL CORNERS = 1"R UNO



4 - LOWER GUSSET - l7
Plate 1/2"x2'-9 9/16"x4'-0" (WEATH)
ALL CORNERS = 1"R UNO

← ROLLING DIRECTION →

1 5/16" Ø HOLES UNO

SYMBOLS & ABBREVIATIONS

ES: EACH SIDE
EQ: EQUAL
CL: CENTERLINE
REF: REFERENCE
CHK: CHECK
O/O: OUT TO OUT
C/C: CENTER TO CENTER
F/F: FACE TO FACE
DIA/Ø: DIAMETER
R: RADIUS

NS: NEAR SIDE
FS: FAR SIDE
WP/◆: WORK POINT
GA: GAUGE
ID: INSIDE DIAMETER
OD: OUTSIDE DIAMETER
BRG: BEARING
TYP: TYPICAL
UNO: UNLESS NOTED OTHERWISE
ABUT: ABUTMENT
T&B: TOP & BOTTOM

DIST. BY:



FAB. BY:



SUBMITTAL LOG

INITIAL SUBMITTAL
RESUBMITTAL NO.
CUSTOMER APPROVAL
SHOP REVIEW
PRE FAB MTG
APPROVED FOR FAB

DATE

6-16-11
-
-
6-16-11
-
-

NO:

△
△
△
△
△
△

DATE:

REVISIONS:

BY:

MILES CREEK BRIDGE
KELLOGG ACRES ROAD
PULASKI COUNTY, ARKANSAS

ITEM NO.:
PROJECT NO.:
REFERENCE NO.:
BRIDGE NO.:
STRUCTURAL FILE NO.:

DESIGN: SAF

DRAW: CRM

REVIEW: DLM

CHECK: AEC

SHOP DETAILS

PLATES

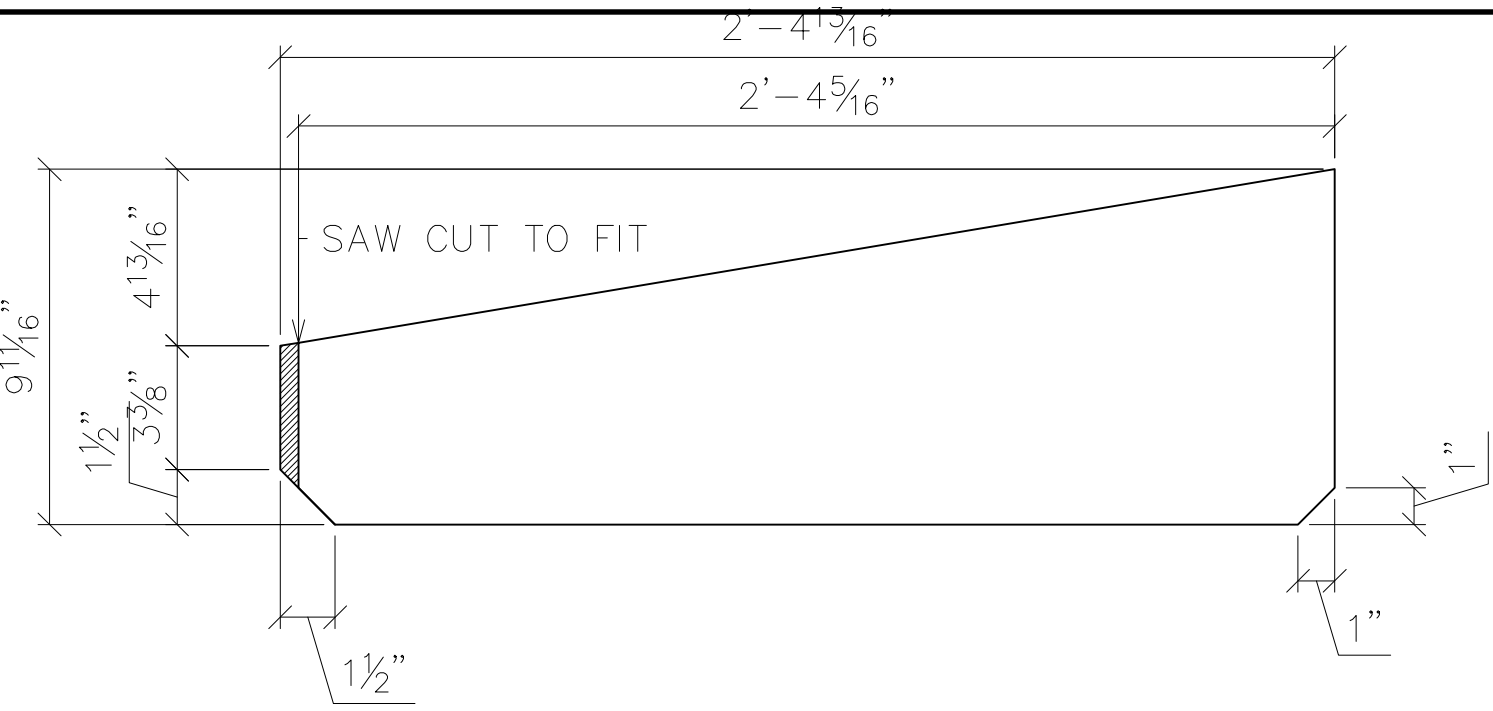
USB JOB#
50462

SHEET
12

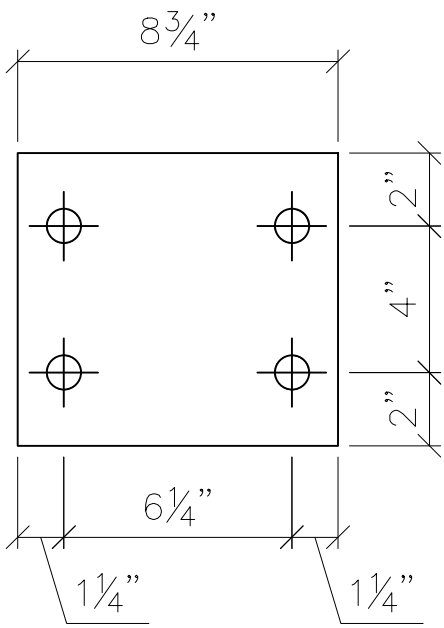
22
TOTAL

DATE PLOTTED June 16, 2011

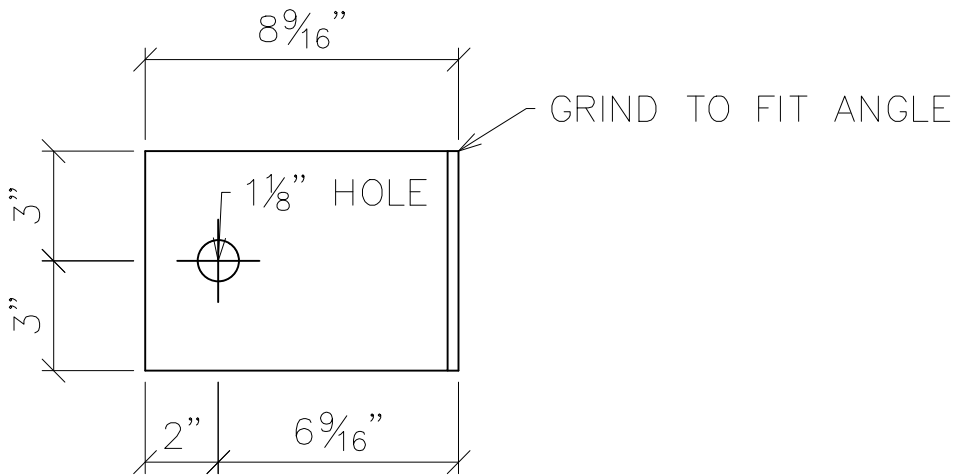
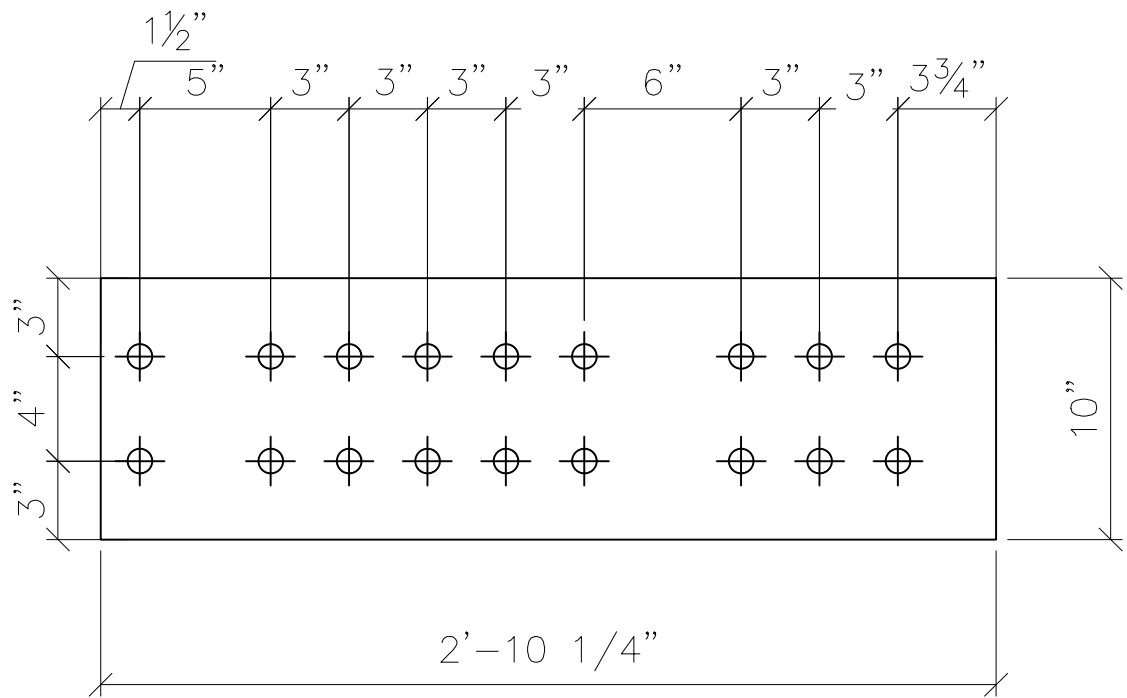
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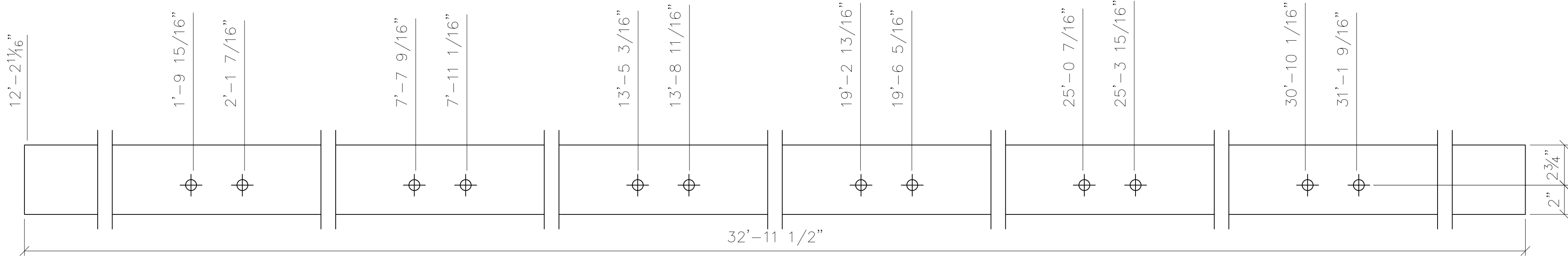
12 - STIFFENER PLATE - stp1
Plate 1/2"x9 7/16" (2'-5 3/8") WEATH



34 - SPACER PLATE - sp1
Plate 3/8"x8" (8 3/4") WEATH



24 - LATERAL ROD PLATE - lrp1
Plate 3/4"x6" (8 9/16") WEATH



2 - CLOSURE PLATE - cp1
Plate 7/8"x4 3/4" (32'-11 1/2") WEATH

3/4" HOLES

15/16" Ø HOLES UNO

SYMBOLS & ABBREVIATIONS

| | |
|-----------------------|-----------------------------|
| ES: EACH SIDE | NS: NEAR SIDE |
| EQ: EQUAL | FS: FAR SIDE |
| CL: CENTERLINE | WP: WORK POINT |
| REF: REFERENCE | GA: GAUGE |
| CHK: CHECK | ID: INSIDE DIAMETER |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER |
| C\C: CENTER TO CENTER | BRG: BEARING |
| F\F: FACE TO FACE | TYP: TYPICAL |
| DIA/Ø: DIAMETER | UNO: UNLESS NOTED OTHERWISE |
| R: RADIUS | ABUT: ABUTMENT |
| | T&B: TOP & BOTTOM |

DIST. BY:



FAB. BY:

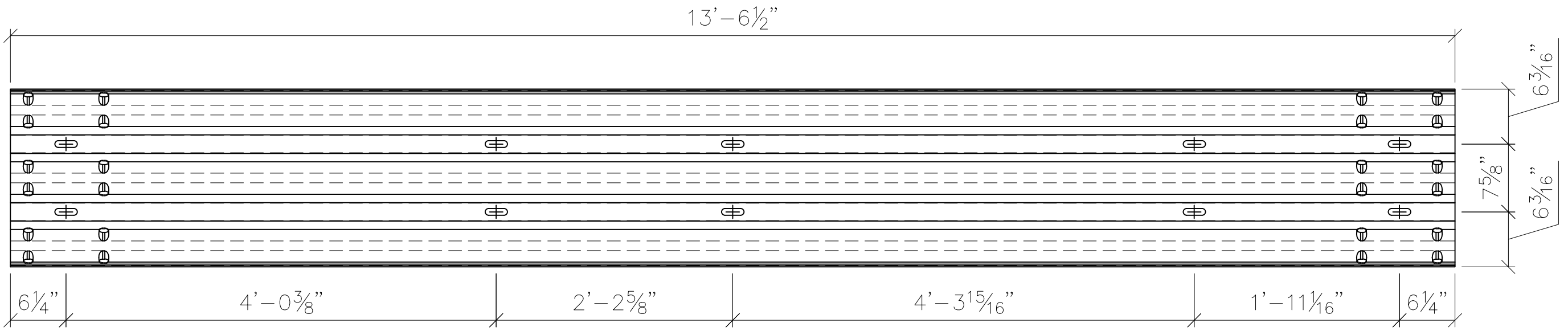


SUBMITTAL LOG

| INITIAL SUBMITTAL | DATE | NO: | DATE: | REVISIONS: | BY: |
|-------------------|---------|-----|-------|------------|-----|
| RESUBMITTAL NO. | - | △ | | | |
| CUSTOMER APPROVAL | - | △ | | | |
| SHOP REVIEW | 6-16-11 | △ | | | |
| PRE FAB MTG | - | △ | | | |
| APPROVED FOR FAB | - | △ | | | |

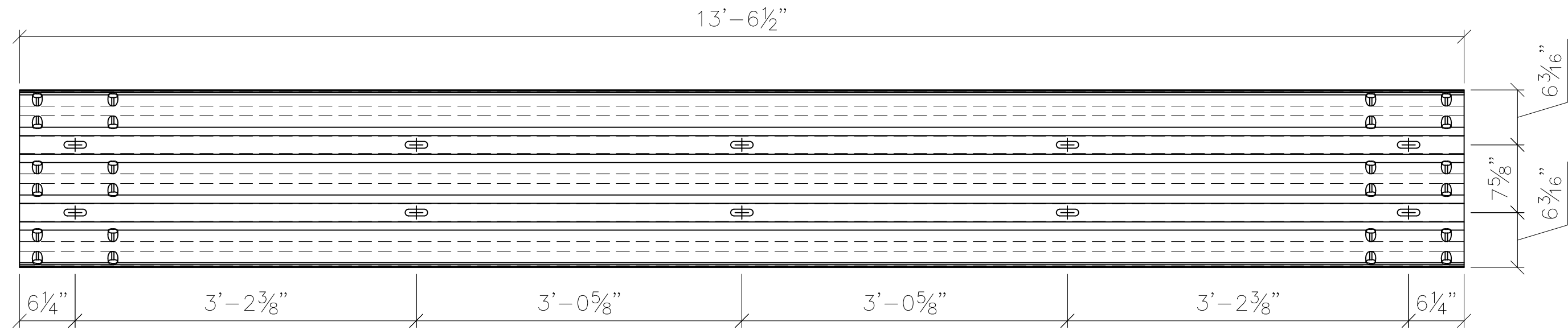
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|--|-----------|-------------|------------|--|-------------|
| MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS | | | | ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | |
| DESIGN: SAF | DRAW: CRM | REVIEW: DLM | CHECK: AEC | SHEET 12a | 22 TOTAL |
| SHOP DETAILS | | PLATES | | USB JOB# 50462 | |

14 - FLOOR BEAM END PLATE - fbep1
Plate 3/4"x10"x2'-10 1/4" (WEATH)



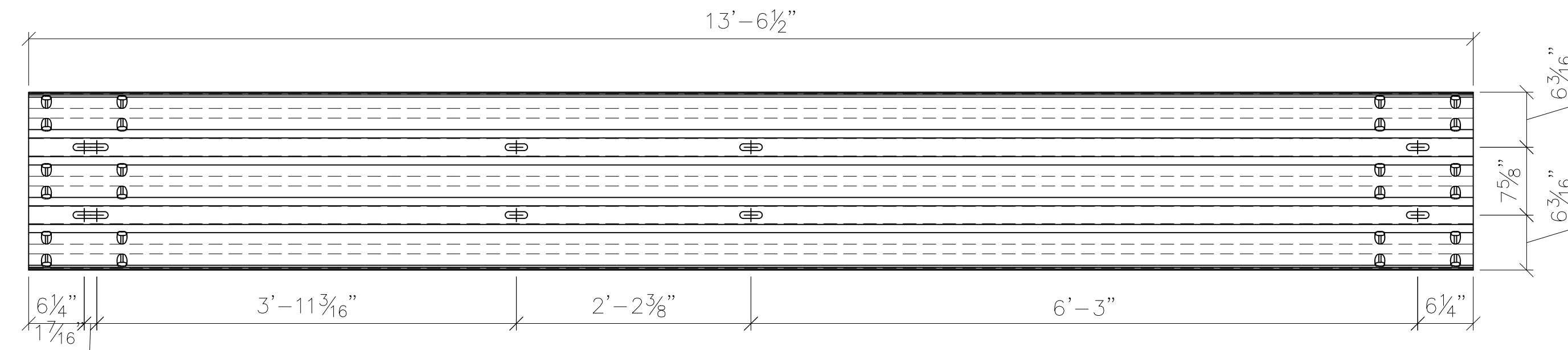
4 – THRIE BEAM GUARDRAIL – tbgr1
GRT (13’-6 1/2”) GALV

3/4"X1 3/4" SLOTTED HOLES



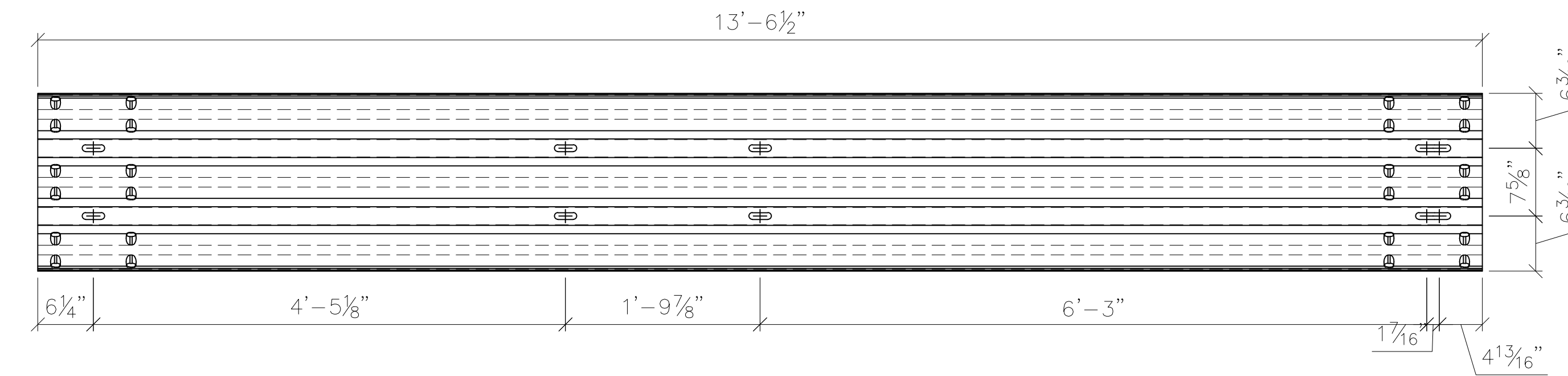
2 – THRIE BEAM GUARDRAIL – tbgr2
GRT (13’-6 1/2”) GALV

3/4"X1 3/4" SLOTTED HOLES



4 – THRIE BEAM GUARDRAIL – tbgr3
GRT (13’-6 1/2”) GALV

3/4"X1 3/4" SLOTTED HOLES



4 – THRIE BEAM GUARDRAIL – tbgr4
GRT (13’-6 1/2”) GALV

3/4"X1 3/4" SLOTTED HOLES

| SYMBOLS & ABBREVIATIONS | | DIST. BY: | | SUBMITTAL LOG | | DATE | NO: | DATE: | REVISIONS: | | BY: | MILES CREEK BRIDGE KELLOGG ACRES ROAD PULASKI COUNTY, ARKANSAS | | ITEM NO.: PROJECT NO.: REFERENCE NO.: BRIDGE NO.: STRUCTURAL FILE NO.: | |
|-------------------------|-----------------------------|---|--|-------------------|---------|------|-----|-------|------------|--|-----|--|--|--|--|
| ES: EACH SIDE | NS: NEAR SIDE | FAB. BY: | | INITIAL SUBMITTAL | 6-16-11 | | ▲ | | | | | | | DESIGN: SAF | |
| EQ: EQUAL | FS: FAR SIDE | | | RESUBMITTAL NO. | - | | ▲ | | | | | DRAW: CRM | | REVIEW: DLM | |
| CL: CENTERLINE | WP/◆: WORK POINT | U.S. BRIDGE® BRIDGING AMERICA SINCE 1936 | | CUSTOMER APPROVAL | - | | ▲ | | | | | CHECK: AEC | | USB JOB# | |
| REF: REFERENCE | GA: GAUGE | | | SHOP REVIEW | 6-16-11 | | ▲ | | | | | 50462 | | SHEET | |
| CHK: CHECK | ID: INSIDE DIAMETER | | | PRE FAB MTG | - | | ▲ | | | | | SHOP DETAILS | | 14 | |
| O\O: OUT TO OUT | OD: OUTSIDE DIAMETER | | | APPROVED FOR FAB | - | | ▲ | | | | | RAILING | | 22 | |
| C\C: CENTER TO CENTER | BRG: BEARING | | | | | | | | | | | | | TOTAL | |
| F\F: FACE TO FACE | TYP: TYPICAL | | | | | | | | | | | | | | |
| DIA/Ø: DIAMETER | UNO: UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | |
| R: RADIUS | ABUT: ABUTMENT | | | | | | | | | | | | | | |
| | T&B: TOP & BOTTOM | | | | | | | | | | | | | | |