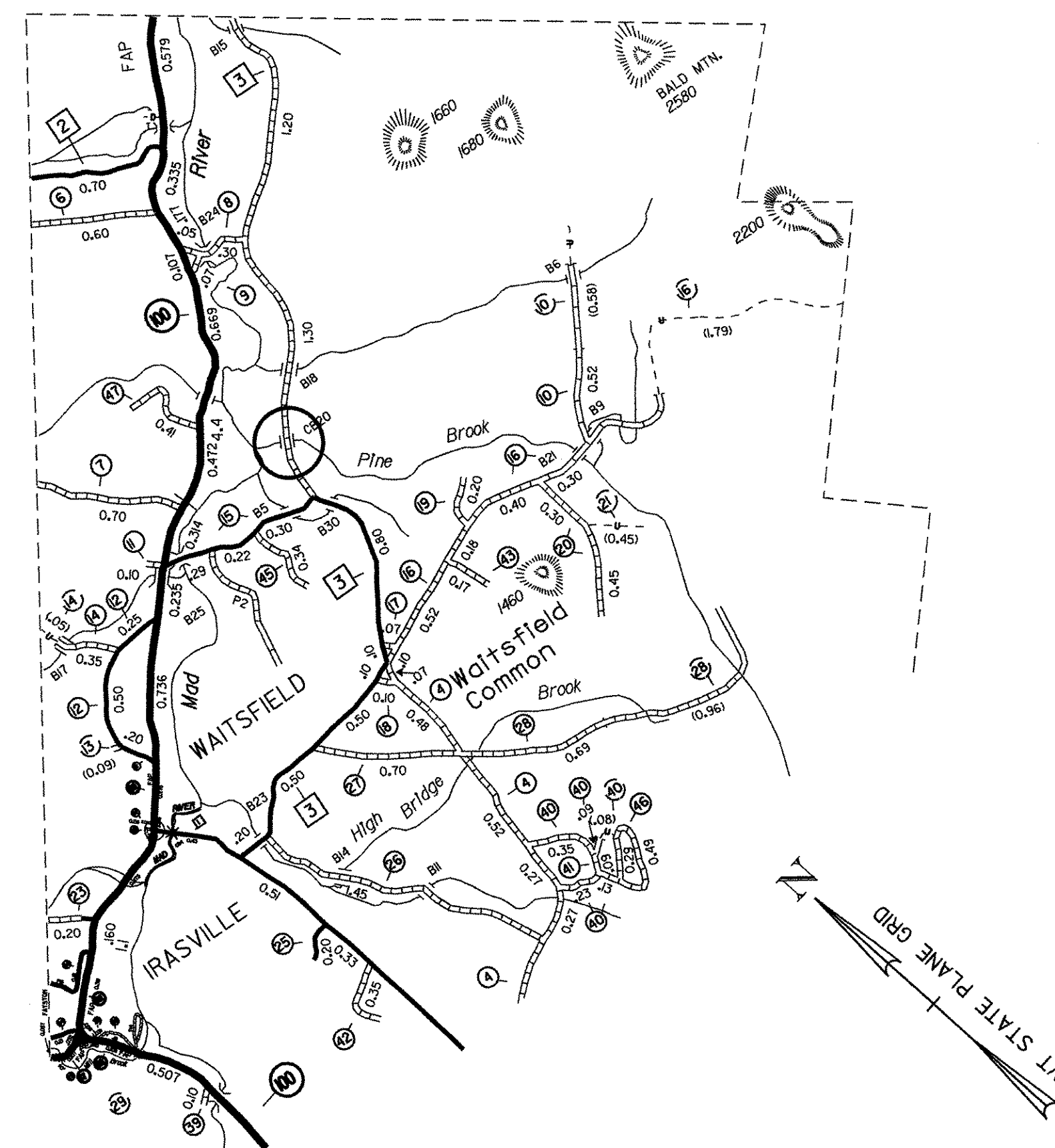
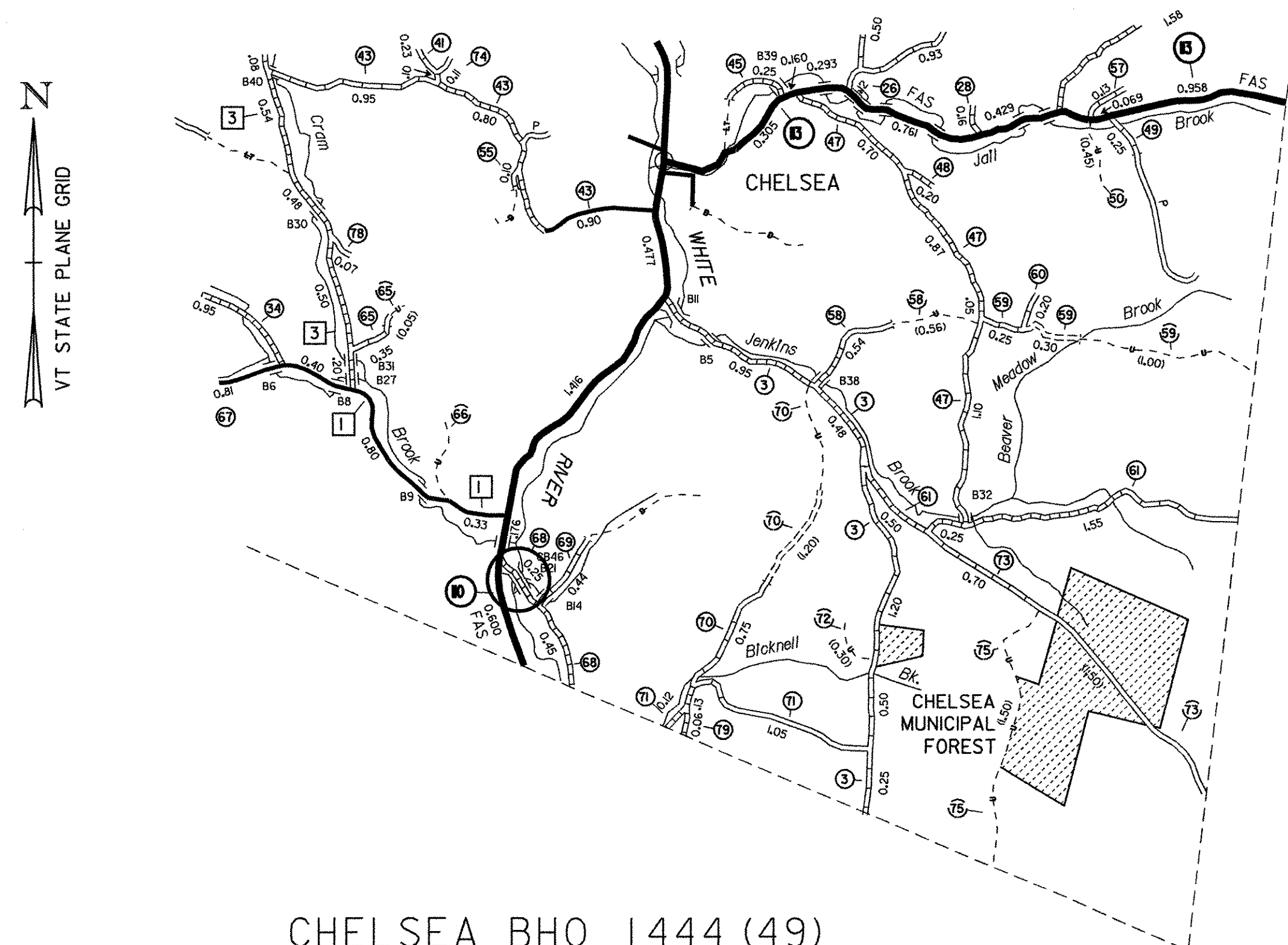


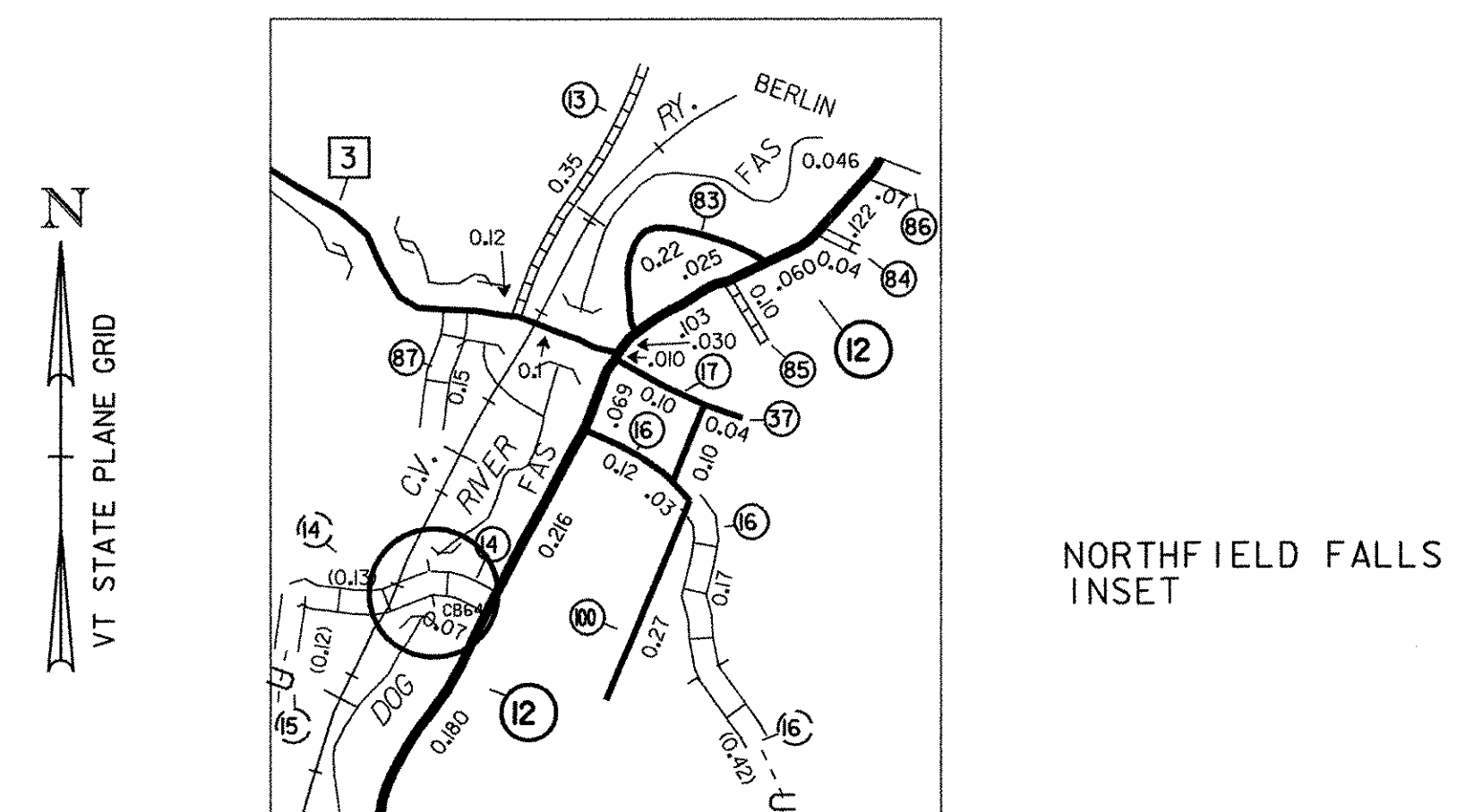
RANDOLPH BHO 1444 (48)
GIFFORD COVERED BRIDGE C.B. 34



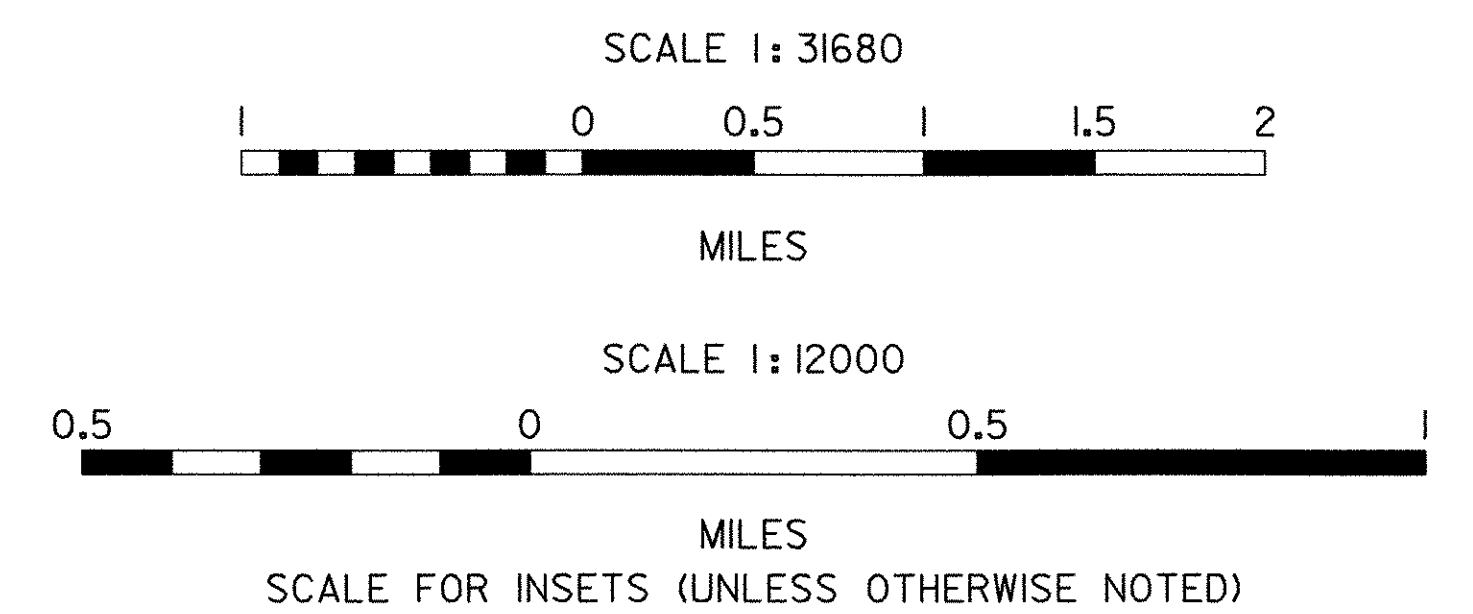
WAITSFIELD BHO 1446 (33)
PINEBROOK COVERED BRIDGE C.B. 20



CHELSEA BHO 1444 (49)
MOXLEY COVERED BRIDGE C.B. 46



NORTHFIELD FALLS BHO 1446 (34)
SLAUGHTERHOUSE COVERED BRIDGE C.B. 64



| | |
|---|------------------------|
| PROJECTS: | |
| CENTRAL REGION | |
| DESIGN FILE NAME: 04j160/Structures/04j160loc.dgn | PLOT DATE: 06-APR-2007 |
| IPARM FILE NAME: 04j160loc.i | DRAWN BY: J. WHITE |
| DESIGNED BY: J. WEAVER | CHECKED BY: J. WEAVER |
| LOCATION MAPS SHEET | SHEET: 2 OF 9 |

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
2. ALL INFORMATION PROVIDED IN THE PLANS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING THE WORK.
3. FOUNDATION WORK AND OTHER WORK SHALL BE AS SPECIFIED WITHIN THE PROJECT SPECIAL PROVISIONS AND OTHER CONTRACT DOCUMENTS.
4. ALL WORK IS TO BE COMPLETED WITHIN THE AVAILABLE TOWN-OWNED RIGHT-OF-WAY AS DETAILED ON SHEET 4. THE R.O.W. IS ASSUMED TO BE CENTERED ABOUT THE CENTER LINE OF THE BRIDGE. NO PROVISIONS HAVE BEEN MADE TO GO OUTSIDE THE EXISTING RIGHT-OF-WAY AND NO CONTRACT WORK SHALL BE PERFORMED OR PAID FOR OUTSIDE OF EXISTING TOWN-OWNED RIGHT-OF-WAY LIMITS. SHOULD THE CONTRACTOR REQUIRE ANY ADDITIONAL R.O.W. IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO OBTAIN ALL EASEMENTS.
5. IT IS ANTICIPATED THAT NO WORK WILL TAKE PLACE WITHIN THE STREAMBEDS. FOR ANY CONTRACTOR'S REQUIRED WORK IN THE STREAM, AND ERECTING STAGING, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS.
6. GREAT CARE SHALL BE TAKEN BY THE CONTRACTOR TO PREVENT ANY MATERIAL FROM ENTERING THE AFFECTED STREAMBEDS PER SECTION 105 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ANY MATERIAL THAT DOES ESCAPE THE CONTRACTORS CONTAINMENT SYSTEM WILL BE RECOVERED IMMEDIATELY.
7. IT IS NOT ANTICIPATED THAT ANY UTILITIES WILL REQUIRE ADJUSTMENT. THE CONTRACTOR IS CAUTIONED TO PROTECT THESE FACILITIES FROM DAMAGE. ALL DAMAGE TO UTILITIES AS RESULT OF THE CONTRACTORS OPERATIONS WILL BE REPAIRED AT NO COST TO THE STATE. SHOULD THE CONTRACTOR, DESIRE UTILITY RELOCATIONS FOR ITS OWN BENEFIT, ALL COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
8. ALL WORK SHALL PROCEED IN A CAREFUL, ORDERLY MANNER SO THAT AFFECTED HISTORIC STRUCTURES ARE NOT DAMAGED IN ANY WAY. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO THE STRUCTURE AS A RESULT OF ITS OPERATIONS AT NO COST TO THE STATE. ALL DAMAGE WILL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY AND NO REPAIRS WILL BE MADE UNTIL APPROVED BY THE STATE.
9. ALL TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SIGNS, BARRELS, BARRICADES, CONES, BARRIERS, NECESSARY FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION WILL BE PAID UNDER ITEM 641.10 TRAFFIC CONTROL. WHILE DETOURS AS DETAILED IN STANDARD 107 WILL NOT BE ENCOUNTERED, GENERAL PLACEMENT OF APPROACH SIGNING AND "ROAD CLOSED" SIGNS WILL BE AS SHOWN ON STANDARD 107. AS CONDITIONS AT EACH SITE VARY, THE CONTRACTOR MAY CHOOSE TO SUBMIT INDIVIDUAL TRAFFIC CONTROL PLANS FOR REVIEW.
10. ALL REMOVED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR.
11. AN ESTIMATED QUANTITY OF STRUCTURAL LUMBER AND TIMBER UNTREATED HAS BEEN INCLUDED FOR THE REPLACEMENT OF FLOOR PLANKS AT THE RANDOLPH BHO 1444 (48) BRIDGE SITE. FULL SAWN STRUCTURAL LUMBER SHALL BE USED AND PAID FOR UNDER ITEM 522.20. THE SPECIES SHALL BE EASTERN SPRUCE, NO. 1 GRADE OR BETTER.
12. WITHIN EXISTING R.O.W. LIMITS, THINNING AND TRIMMING SHALL INCLUDE ALL WORK REQUIRED TO CUT AND TRIM TREES, STUMPS, AND VEGETATION UP TO 6 FEET OF EXISTING ABUTMENT AND WINGWALL FACES AND IN OTHER AREAS, AS DETERMINED BY THE ENGINEER.
13. NEW HEIGHT AND WEIGHT LIMIT SIGNS SHALL BE PLACED WITHIN 100 FEET OF THE BRIDGE PORTALS, AS DIRECTED BY THE ENGINEER. ALSO, NEW ONE LANE BRIDGE SIGNS SHALL BE PLACED AT LEAST 100 FEET FROM BRIDGE PORTALS, AS DIRECTED BY THE ENGINEER.
14. BRIDGES THAT WILL BE CLOSED DURING CONSTRUCTION WORK MAY BE CLOSED TO ALL PEDESTRIAN AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE THE TOWNS WRITTEN NOTICE A MINIMUM OF 3 WEEKS PRIOR TO THE ANTICIPATED BRIDGE CLOSURE. THE CONTACT INFORMATION FOR EACH TOWN AND OTHER PERTINENT INFORMATION ARE PROVIDED ON SHEET 4. ONCE A BRIDGE IS CLOSED ALL WORK SHALL BE PERFORMED CONTINUOUSLY TO MINIMIZE THE DURATION OF BRIDGE CLOSURE TIME.

| | |
|---|------------------------|
| PROJECTS: | |
| CENTRAL REGION | |
| DESIGN FILE NAME: 04j160/Structures/04j160notes.dgn | |
| IPARM FILE NAME: 04j160gennotes.i | PLOT DATE: 06-APR-2007 |
| DESIGNED BY: J. WEAVER | DRAWN BY: J. WHITE |
| | CHECKED BY: J. WEAVER |
| GENERAL NOTES SHEET | SHEET: 3 OF 9 |

PROJECT INFORMATION

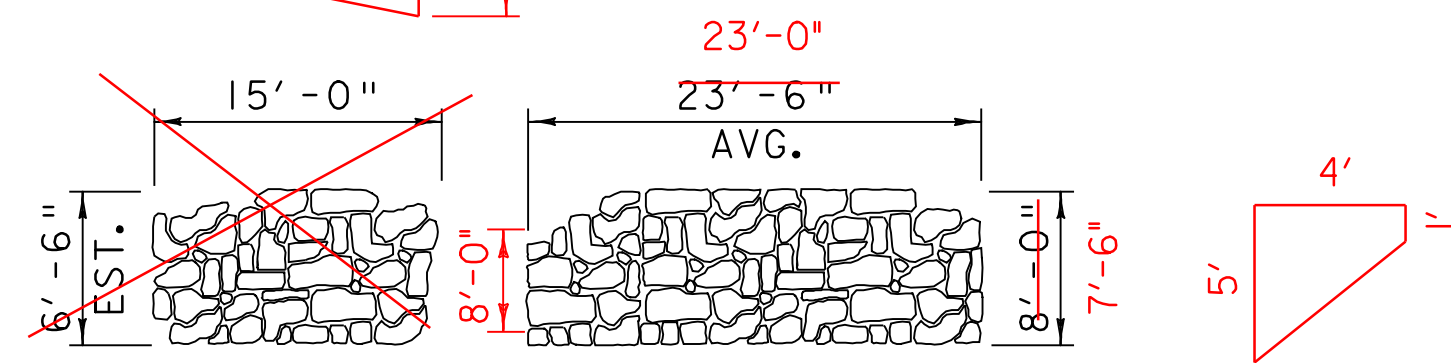
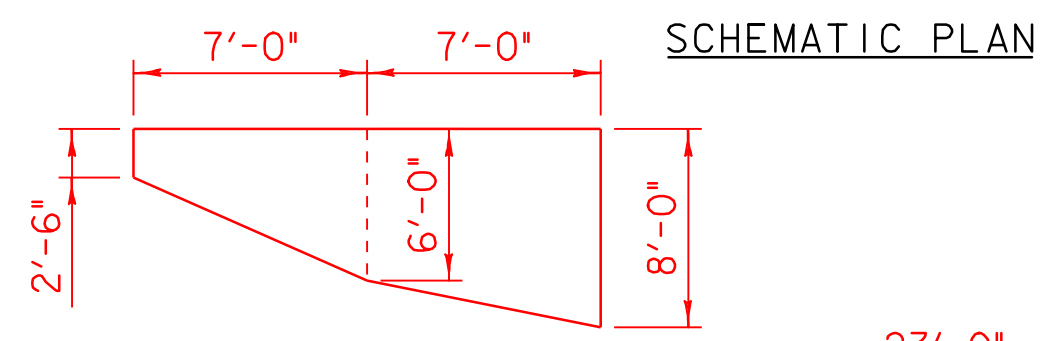
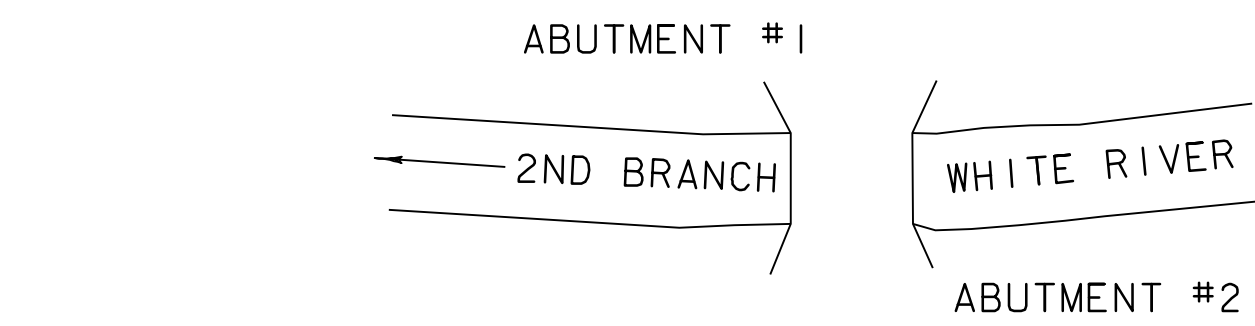
| BRIDGE NAME | BRIDGE NUMBER | ROUTE NUMBER | END TO END BRIDGE LENGTH | ESTIMATED STONE AREA | AVAILABLE ROW | FIRE RETARDANT TO BE APPLIED TO BRIDGE | CONSTRUCTION WORK ADVANCE WARNING TO TOWN * | MUNICIPAL CONTACT FOR NOTIFICATION |
|--------------------------------|---------------|--------------|--------------------------|----------------------|---------------|--|--|---|
| GIFFORD COVERED BRIDGE | CB 34 | TH 66 | 46' | 45 Sq. Yrds. | 40 FEET | YES | 30 DAYS ADVANCE WARNING OF BEGIN CONSTRUCTION REQUIRED | Richard Schnaedter, Town Manager, Drawer B, Randolph, VT 05060 Tel. (802) 728-5433 |
| MOXLEY COVERED BRIDGE | CB 46 | TH 68 | 56' | 33 Sq. Yrds. | 3 ROD | YES | 3 DAYS ADVANCE WARNING OF BEGIN CONSTRUCTION REQUIRED | Jane Cushman, PO Box 266, Chelsea, VT 05038 Tel. (802) 685-7801 |
| PINE BROOK COVERED BRIDGE | CB 20 | TH 3 | 48' | 28 Sq. Yrds. | 3 ROD | YES | 3 DAYS ADVANCE WARNING OF BEGIN CONSTRUCTION REQUIRED | William Bryant, Town Administrator, wbryant@madriver.com, Tel. (802) 496-2218 |
| SLAUGHTER HOUSE COVERED BRIDGE | CB 64 | TH 14 | 60' | 144 Sq. Yrds. | 50 FEET | YES | 3 DAYS ADVANCE WARNING OF BEGIN CONSTRUCTION REQUIRED | William Lyon, Northfield Highway Super. 51 So. Main St., Northfield, VT 05663 Tel. (802) 485-6121 |

* SEE GENERAL NOTE 14.

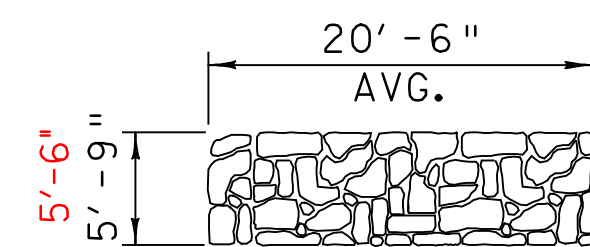
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| DESIGN FILE NAME: 04j160/Structures/04j160notes.dgn | PLOT DATE: 06-APR-2007 |
| IPARM FILE NAME: 04j160notes.i | DRAWN BY: J. WHITE |
| DESIGNED BY: J. WEAVER | CHECKED BY: J. WEAVER |
| BRIDGE INFORMATION SHEET | SHEET: 4 OF 9 |

QUANTITY SHEET

| SUMMARY OF ESTIMATED QUANTITIES | | | | | | | | | | TOTALS | | | | DESCRIPTIONS | | DETAILED SUMMARY OF QUANTITIES | | | |
|---------------------------------|-------------------------|---------------------------|----------------------------|------|-------|-----|--------|--|--|--------------------|-------|----------------|-------|--------------|--|--------------------------------|------------|------|-------|
| FRANKLIN BHO 1444(48) | CHELSEA BHO 1444(49) | WATSFIELD BHO 1444(33) | NORTHFIELD BHO 1444(34) | | | | | | | BRIDGE QUANTITY | ROUND | GRAND TOTAL | FINAL | UNIT | ITEMS | ITEM NUMBER | QUANTITIES | UNIT | ITEMS |
| 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | 0.04 | | 0.04 | | ACRE | THINNING AND TRIMMING | 201.30 | | | |
| | 29 | 30.46 | | | | | | | | 28 | | 29 | | CY | STRUCTURE EXCAVATION | 204.25 | | | |
| | 14.23 | | | | | | | | | 14 | | 14 | | CY | GRANULAR BACKFILL FOR STRUCTURES | 204.30 | | | |
| | 3 | | | | | | | | | 3 | | 3 | | CY | AGGREGATE SURFACE COURSE | 401.10 | | | |
| | 10 | 9.96 | | | | | | | | 10 | | 10 | | CY | CONCRETE, CLASS B | 501.25 | | | |
| 0.25 | 0.25 | 0.25 | 0.25 | | | | | | | 1 | | 1 | | LS | STRUCTURAL PAINTING, FIELD APPLIED (MOD.- FIRE RETARDANT) | 513.30 | | | |
| 0.25 | 0.25 | 0.25 | 0.25 | | | | | | | 1 | | 1 | | LS | CONTAINMENT & ENVIRONMENTAL PROTECTION, FIELD (MOD.- FIRE RETARDANT) | 513.36 | | | |
| 0.200 | 0.087 | 0.086 | | | | | | | | 0.200 | | 0.200 | | MFBM | STRUCTURAL LUMBER AND TIMBER - UNTREATED | 522.20 | | | |
| 45 | 42.42 | 33 | 32.98 | 28 | 33.49 | 144 | 122.73 | | | 250 | | 250 | | SY | REPORTING MASONRY (MOD.) | 602.30 | | | |
| | | | | | | 128 | 128.5 | | | 129 | | 129 | | LF | HEAVY DUTY STEEL BEAM GUARD RAIL (WEATHERING) (MOD. 1 - 8FT. POSTS) | 621.21 | | | |
| | 46 | 45.5 | | | | | | | | 46 | | 46 | | LF | HEAVY DUTY STEEL BEAM GUARD RAIL (WEATHERING) (MOD. 2) | 621.21 | | | |
| | 12 | 23 | | | | 112 | 112 | | | 124 | | 124 | | LF | REMOVAL AND DISPOSAL OF GUARD RAIL | 621.80 | | | |
| 5 | 0 | 5 | 0 | 5 | 0 | | | | | 20 | | 20 | | HR | FLAGGERS | 630.15 | | | |
| 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | | | | | | 1 | | 1 | | LS | MOBILIZATION/DEMOBILIZATION | 635.11 | | | |
| 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | | | | | | 1 | | 1 | | LS | TRAFFIC CONTROL | 641.10 | | | |
| | 56 | 36.9 | | | | | | | | 56 | | 56 | | SY | GEOTEXTILE FOR SILT FENCE | 649.51 | | | |
| | 5 | 5 | | | | | | | | 5 | | 5 | | LB | SEED | 651.15 | | | |
| | 5 | 10 | | | | | | | | 5 | | 5 | | LB | FERTILIZER | 651.18 | | | |
| | 12 | 4 | | | | | | | | 12 | | 12 | | EACH | HAY BALES FOR EROSION CONTROL | 651.26 | | | |
| | 2 | 3.82 | | | | | | | | 2 | | 2 | | CY | TOPSOIL | 651.95 | | | |
| 0.25 | 0.25 | 0.25 | 0.05 | 0.25 | 0 | | | | | 1 | | 1 | | LU | MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN (N.A.B.I.) | 652.30 | | | |
| 25 | 35 | 0 | 13.5 | 35 | 0 | | | | | 107.50 | | 107.50 | | SF | TRAFFIC SIGNS, TYPE A | 675.20 | | | |
| 44 | 60 | 52 | 60 | 22 | 28 | 52 | 60 | | | 170 | | 170 | | LF | FLANGED CHANNEL SIGN POST | 675.301 | | | |

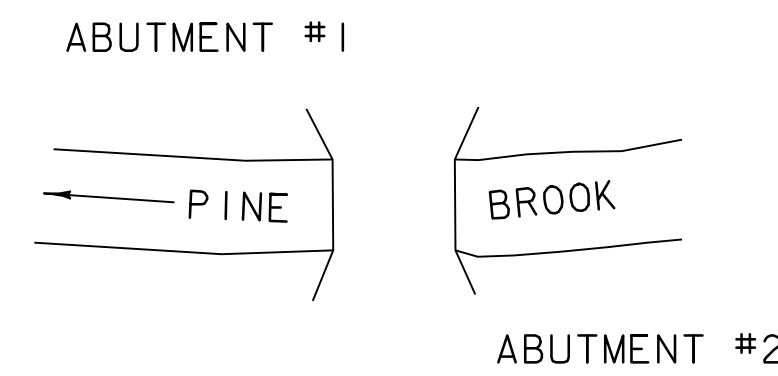


ABUTMENT #2 ELEVATIONS

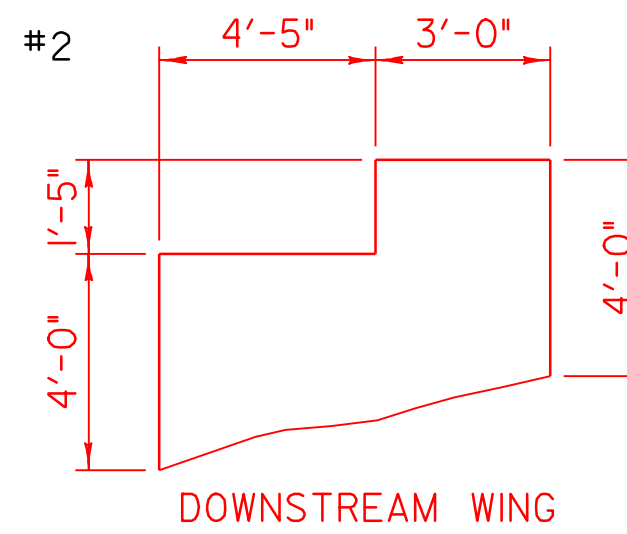


ABUTMENT #1 ELEVATIONS

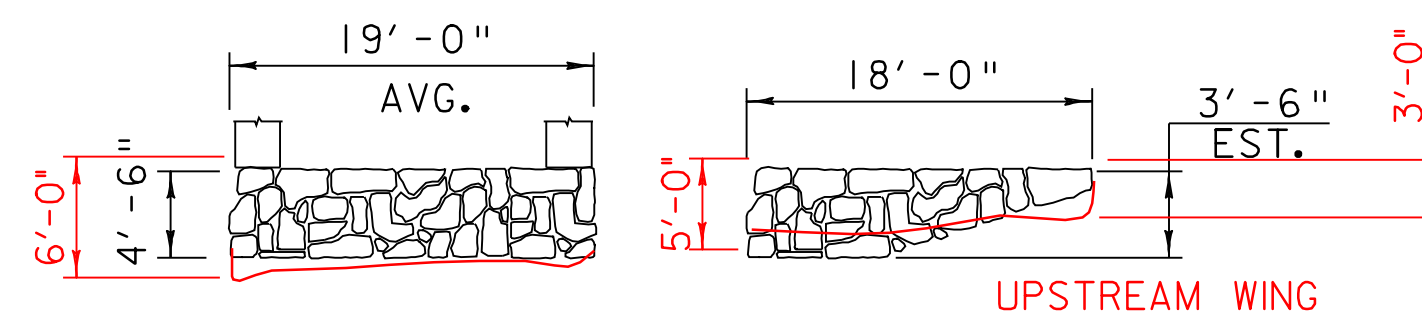
RANDOLPH BHO 1444 (48)
C.B. 34 DETAILS



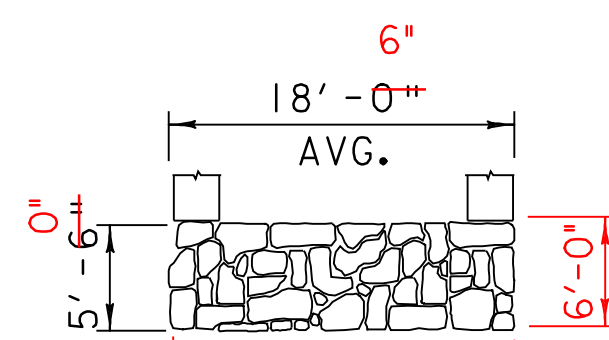
SCHMATIC PLAN



DOWNSTREAM WING

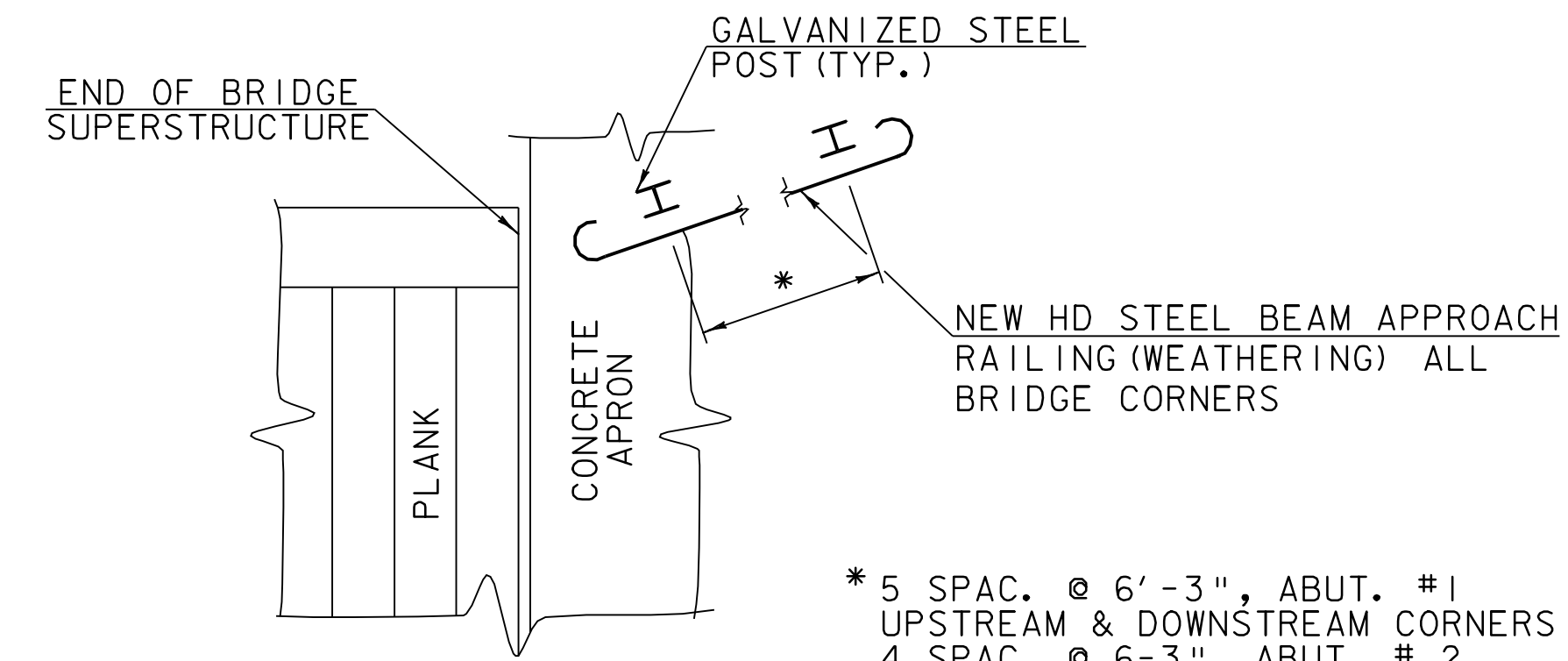


ABUTMENT #2 ELEVATIONS



ABUTMENT #1 ELEVATIONS

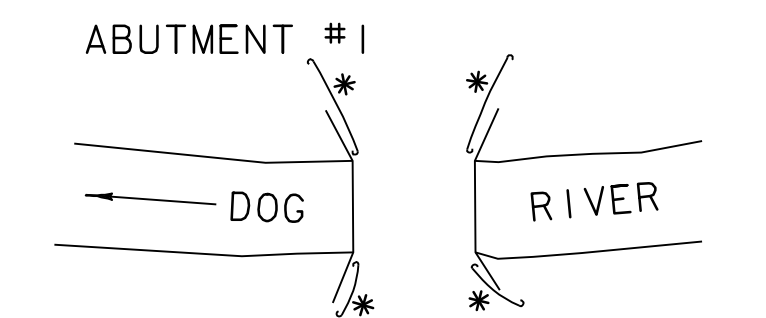
WAITSFIELD BHO 1446 (33)
C.B. 20 DETAILS



RAILING PLAN

N. T. S.

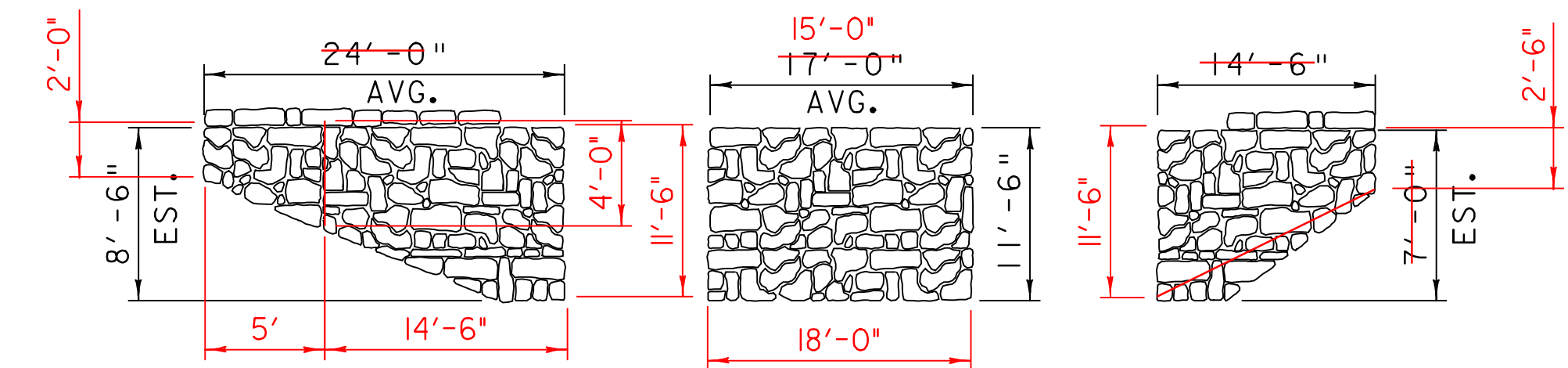
* 5 SPAC. @ 6'-3", ABUT. #1
UPSTREAM & DOWNSTREAM CORNERS
4 SPAC. @ 6'-3", ABUT. #2
UPSTREAM & DOWNSTREAM CORNERS



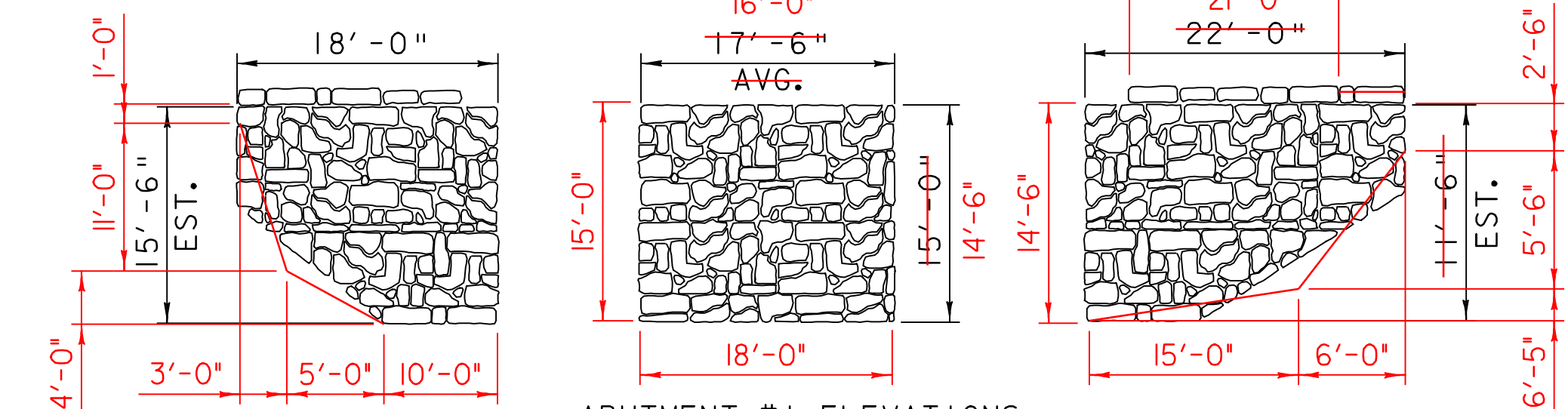
SCHMATIC PLAN

ABUTMENT #2

* LIMITS OF HD STEEL
BEAM GUARD RAIL (WEATHERING)
(MOD. 1 - 8 FOOT POSTS)



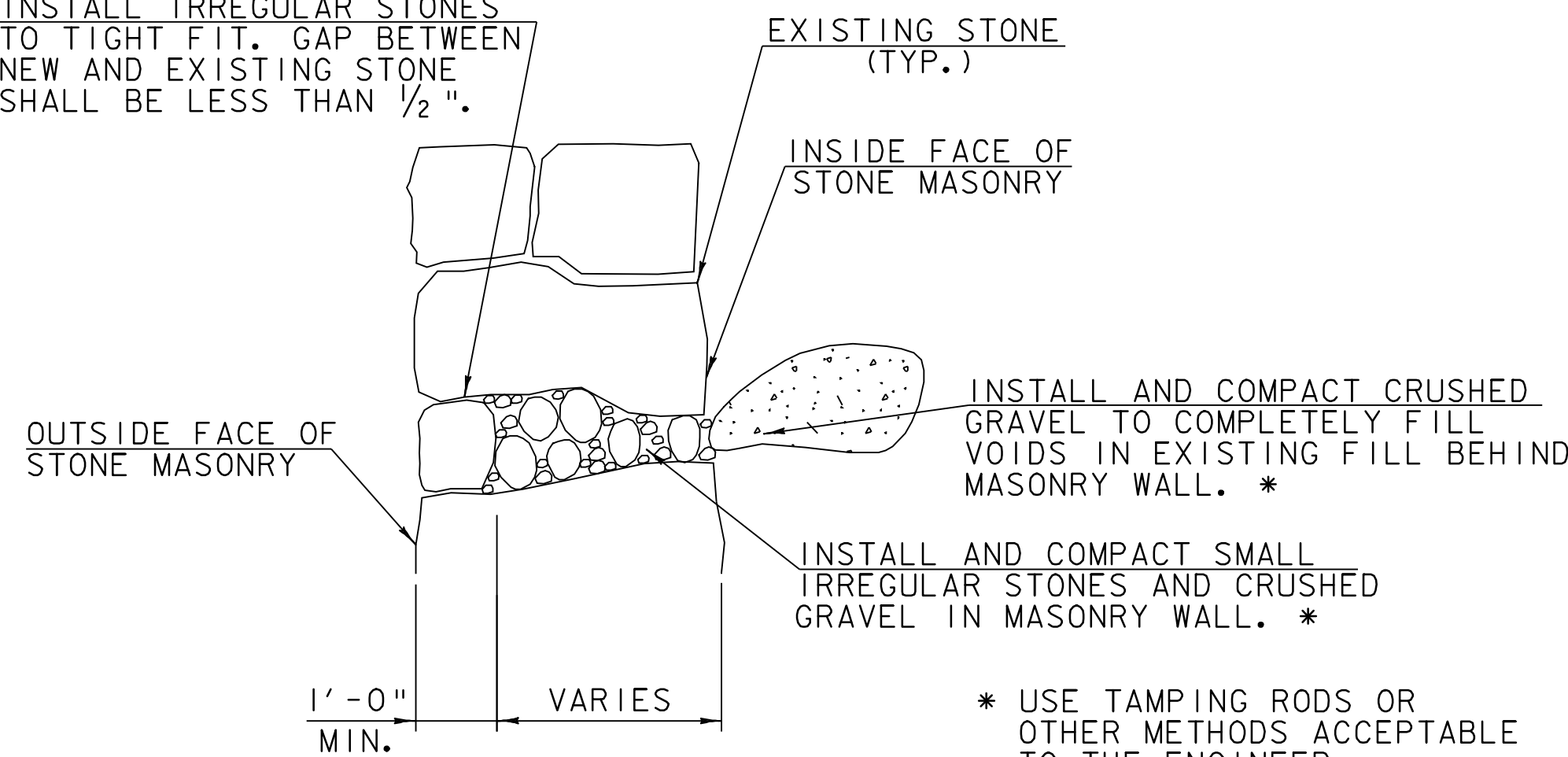
ABUTMENT #2 ELEVATIONS



ABUTMENT #1 ELEVATIONS

NORTHFIELD BHO 1446 (34)
C.B. 64 DETAILS

INSTALL IRREGULAR STONES
TO TIGHT FIT. GAP BETWEEN
NEW AND EXISTING STONE
SHALL BE LESS THAN 1/2".



CHINKING DETAIL**

N. T. S.

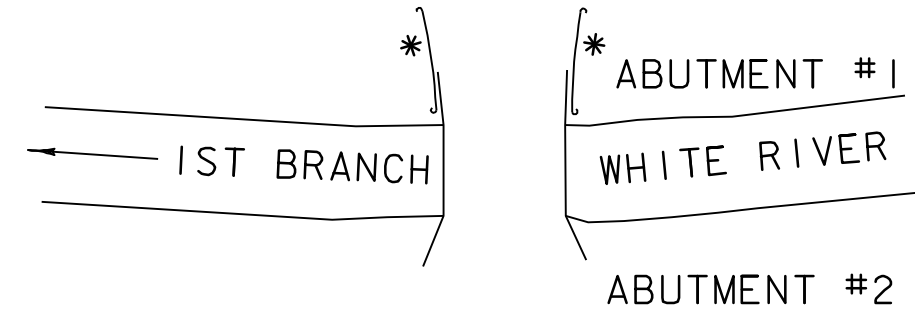
* USE TAMPING RODS OR
OTHER METHODS ACCEPTABLE
TO THE ENGINEER.

** FOR FURTHER INFORMATION
SEE SECTION 602 OF THE
PROJECT SPECIAL PROVISIONS.

NOTES:

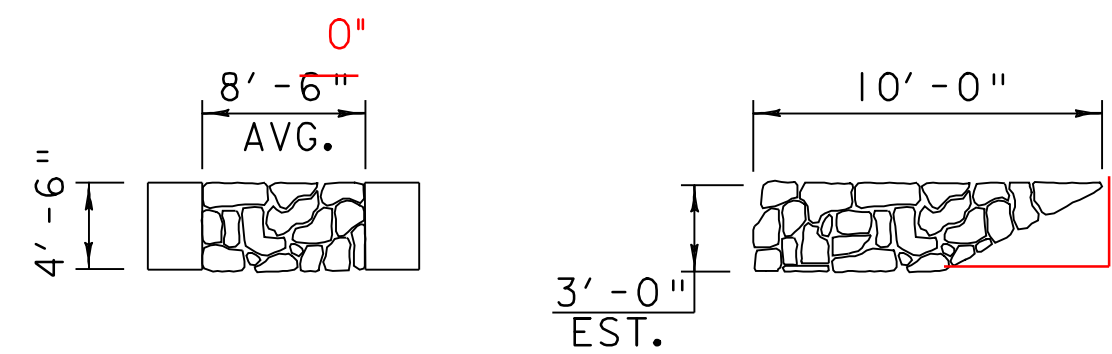
1. UNLESS OTHERWISE NOTED, ALL DETAILS ARE SCHEMATIC AND NOT TO SCALE.
2. ABUTMENT #2 IS LOCATED ON THE FAR SIDE OF THE STRUCTURE, WITH UPSTREAM TO THE LEFT OF THE VIEWER.
3. ALL DIMENSIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.
4. ANCHOR BOLTS AND 1/2" #4'S FOR HD STEEL BEAM RAIL @ CHELSEA CB 46 SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT CONSIDERED AS INCIDENTAL TO MATERIALS AND WORK REQUIRED FOR PAY ITEM 621.21 HD STEEL BEAM GUARD RAIL (WEATHERING) (MOD. 2).

| | |
|---|------------------------------|
| PROJECTS: CENTRAL REGION | |
| DESIGN FILE NAME: 04j160/Structures/04j160det.dgn | PLOT DATE: 27-JUN-2007 13:00 |
| IPARM FILE NAME: 04j160det1.i | DRAWN BY: J. WHITE |
| DESIGNED BY: J. WEAVER | CHECKED BY: J. WEAVER |
| DETAIL SHEET 1 | SHEET: 6 OF 9 |

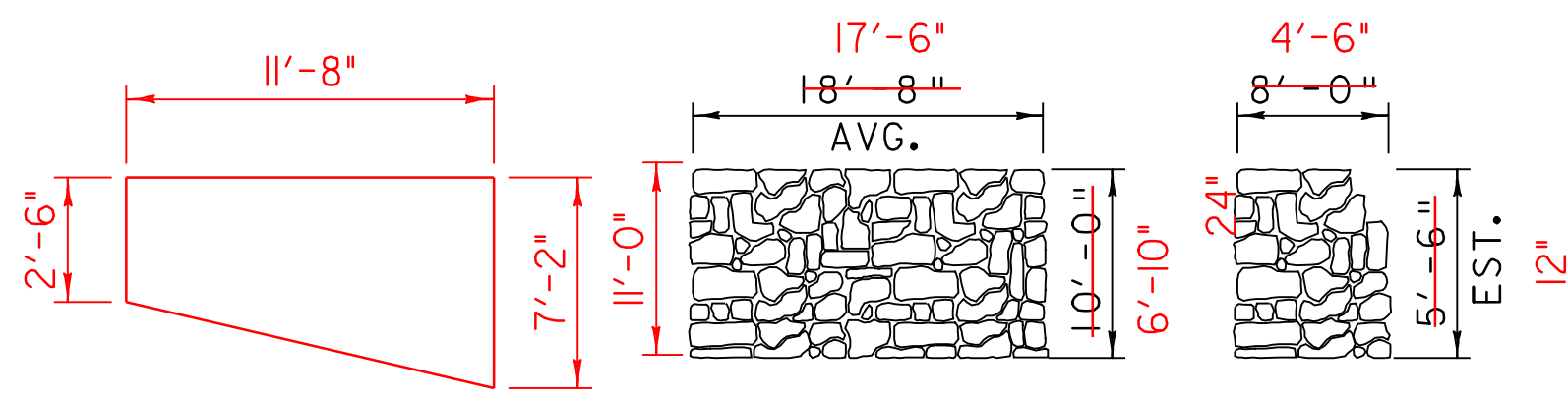


SCHEMATIC PLAN

* LIMITS OF HD STEEL BEAM GUARD RAIL (WEATHERING) (MOD. 2)

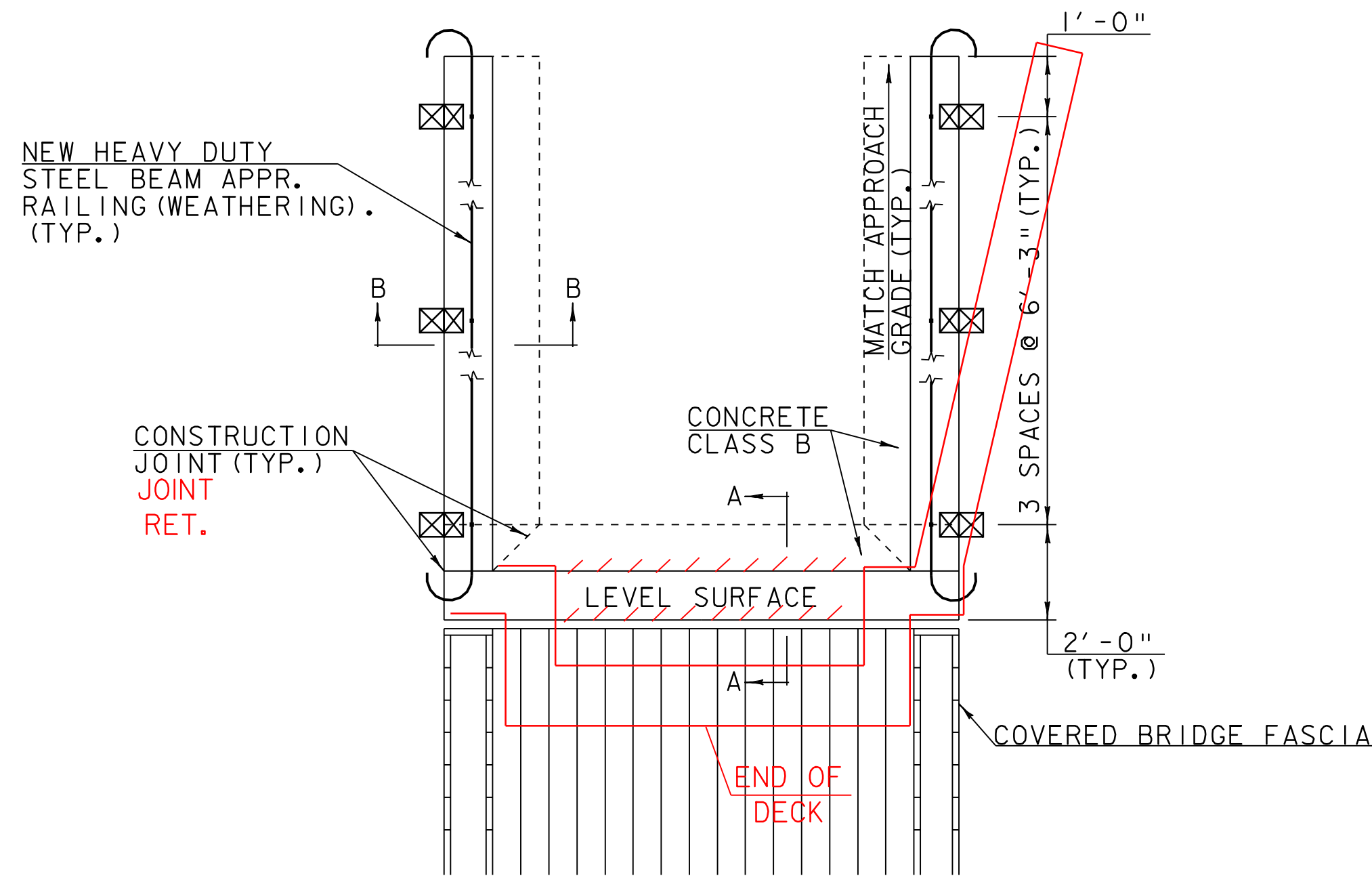


ABUTMENT #2 ELEVATIONS



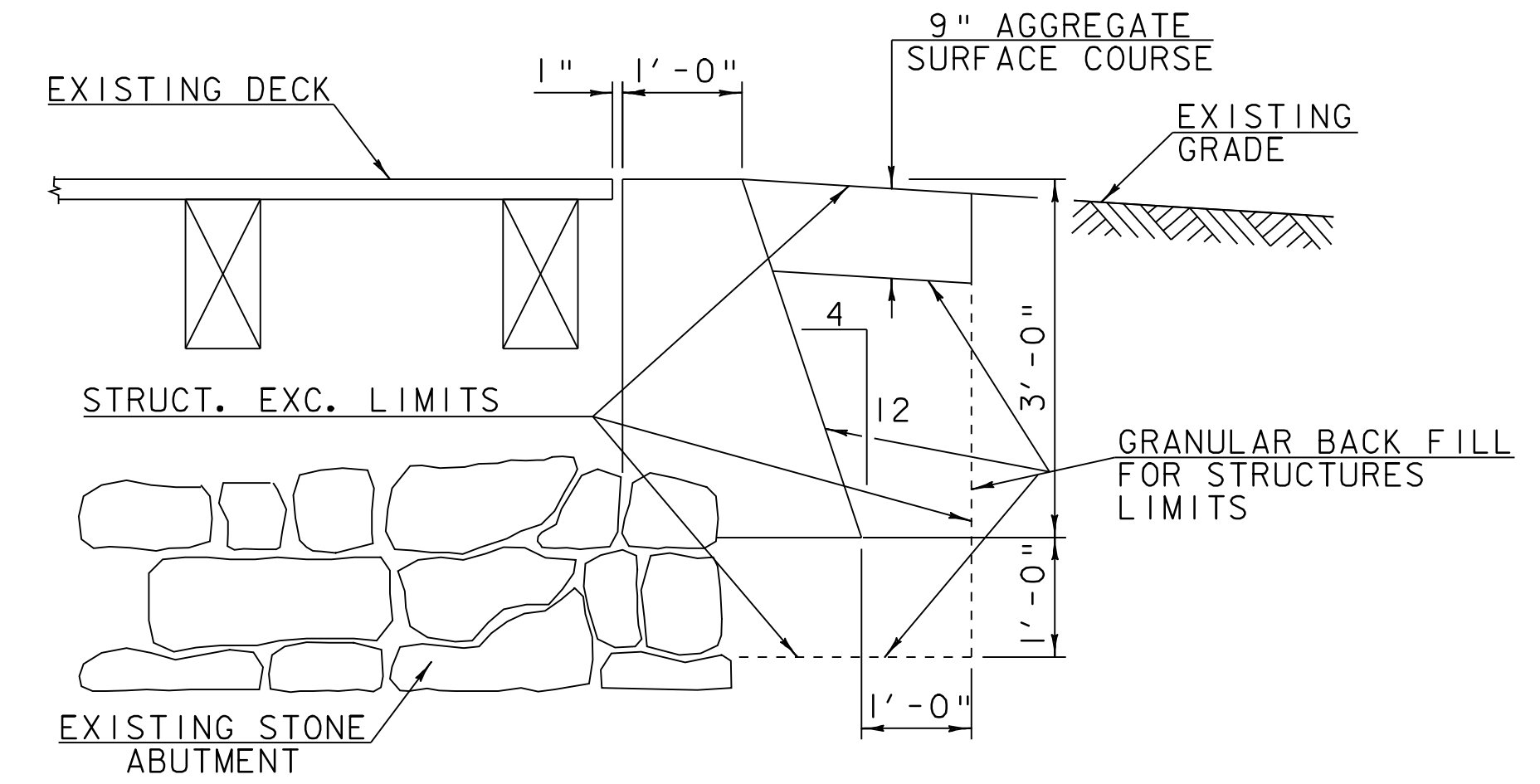
ABUTMENT #1 ELEVATIONS

CHELSEA BHO 1444 (49)
C.B. 46 DETAILS

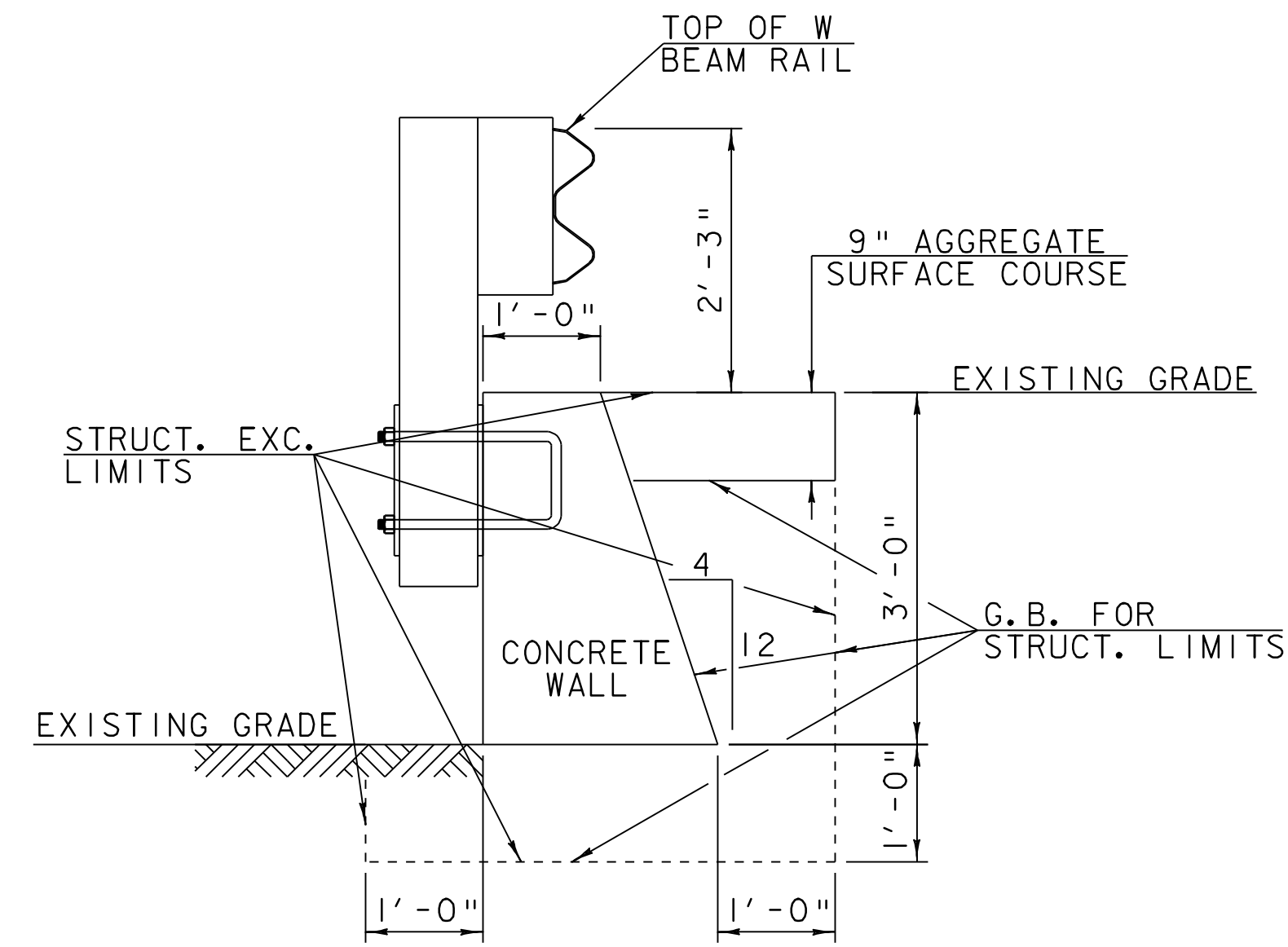


PLAN OF ABUTMENT #1 APPROACH

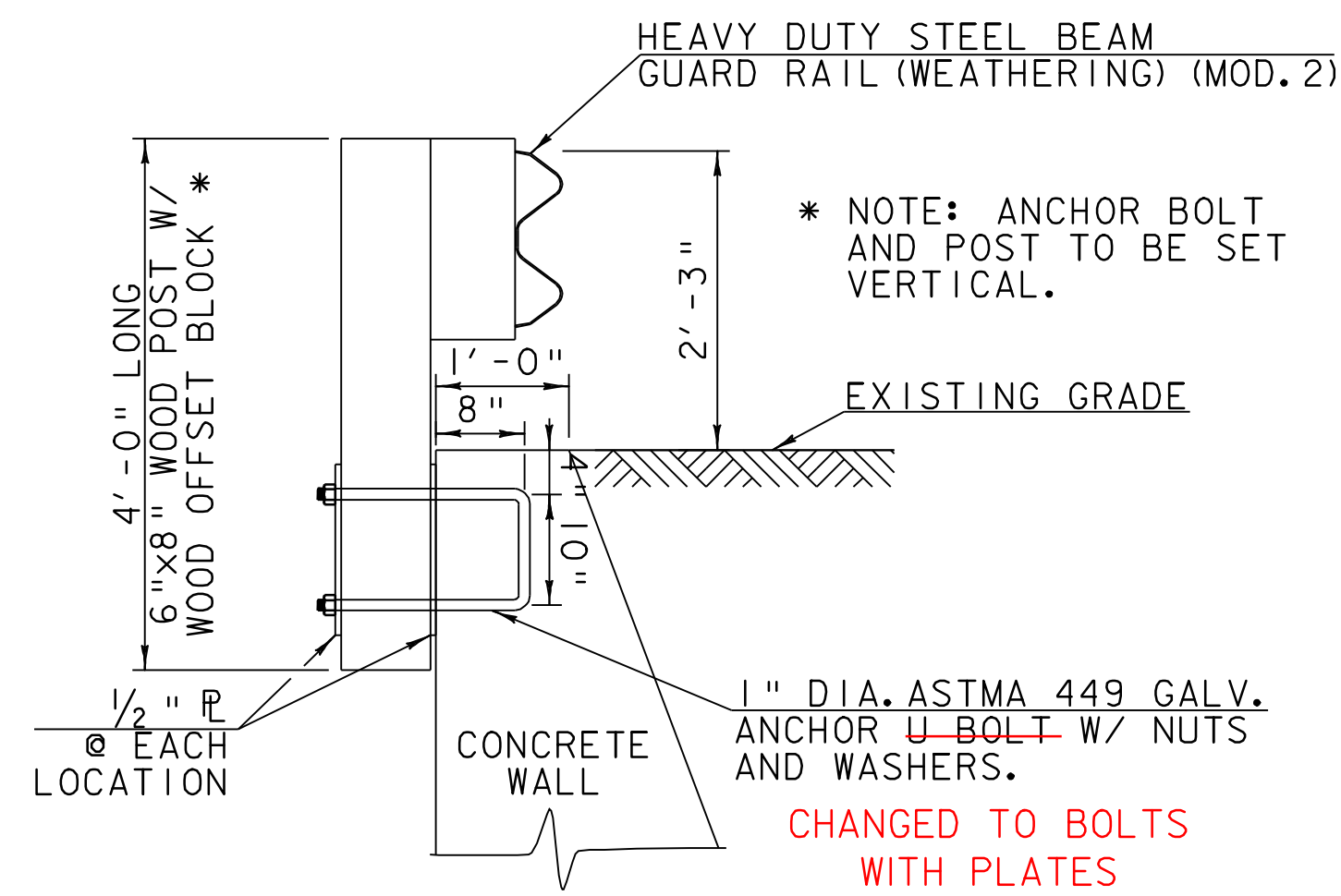
N. T. S.



SECTION A-A

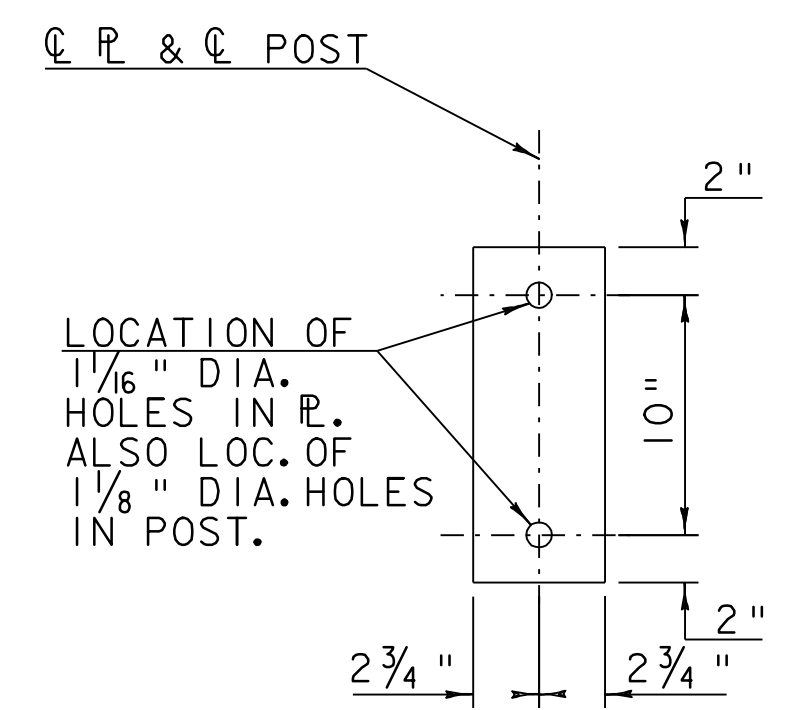


SECTION B-B



RAILING DETAIL

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

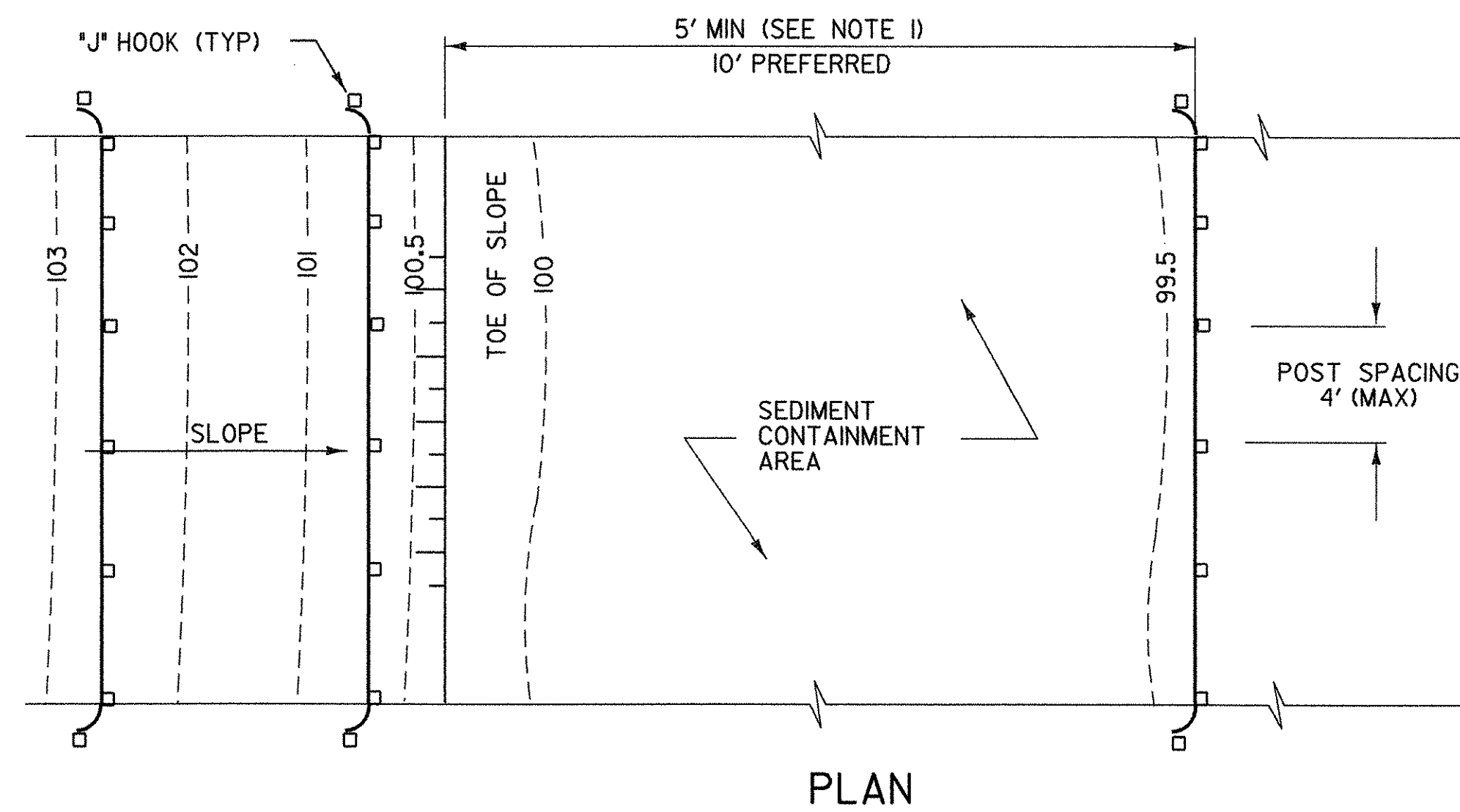


DETAIL 1/2" R

SCALE: 1/2" = 1'-0"

| | |
|---|------------------------------|
| PROJECTS: | |
| CENTRAL REGION | |
| DESIGN FILE NAME: 04j160/Structures/04j160det.dgn | PLOT DATE: 27-JUN-2007 13:13 |
| IPARM FILE NAME: 04j160det2.i | DRAWN BY: J. WHITE |
| DESIGNED BY: J. WEAVER | CHECKED BY: J. WEAVER |
| DETAIL SHEET 2 | SHEET: 7 OF 9 |

SILT FENCE



APPLICATION NOTES:

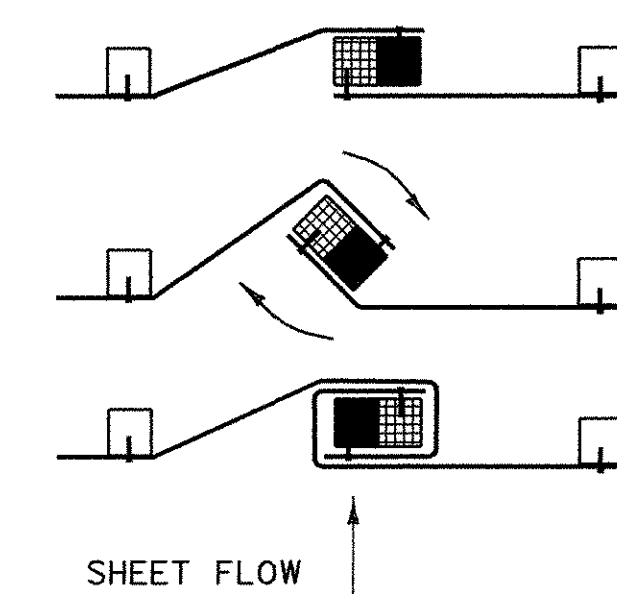
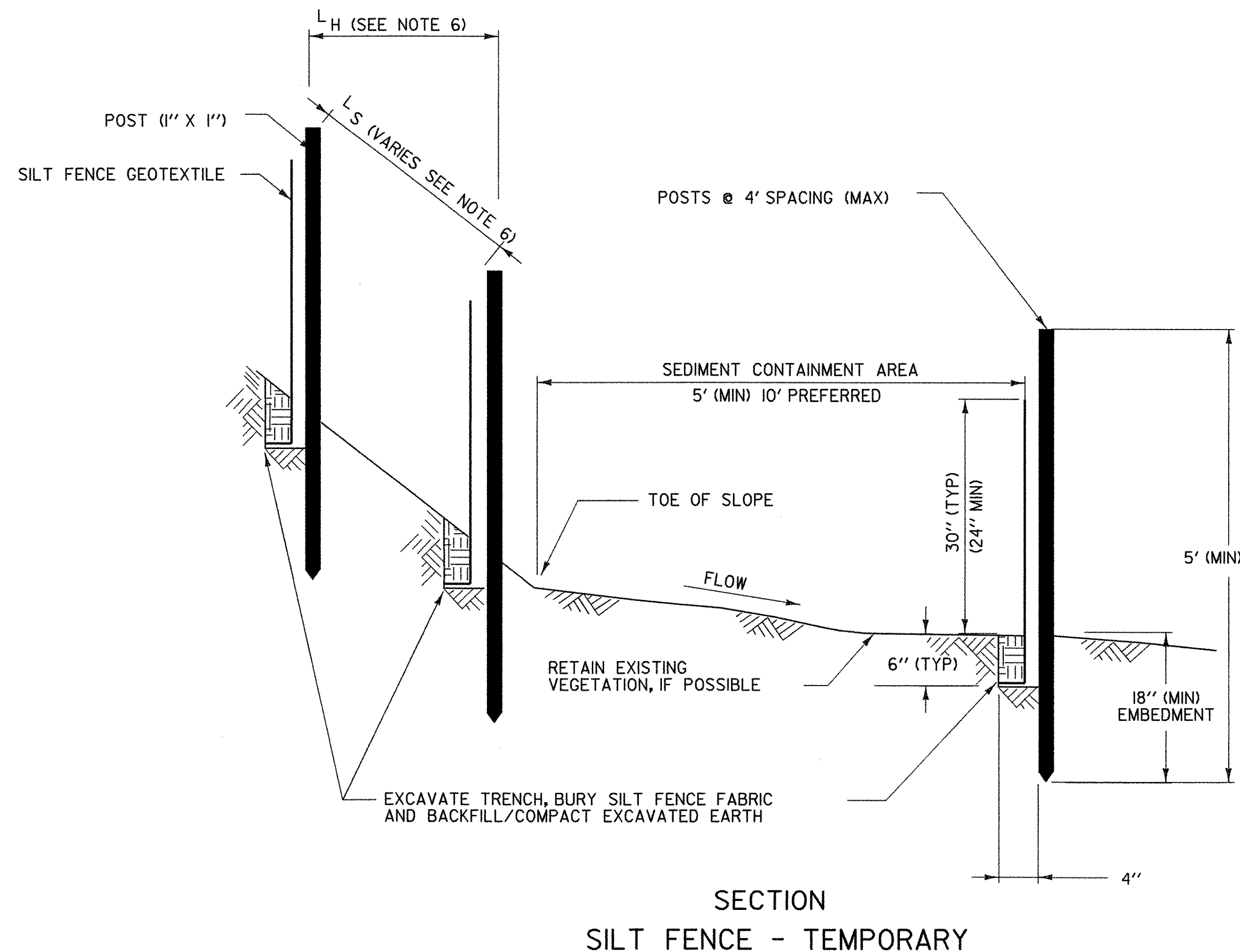
- THE PRIMARY PURPOSE OF SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENT. VELOCITY IS REDUCED, WATER IS IMPOUNDED BEHIND THE MEASURE, AND SEDIMENT FALLS OUT OF SUSPENSION.
- SILT FENCE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). IT MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM, AS SHOWN IN THE DETAIL.
- SILT FENCE SHALL NOT BE USED ACROSS CONCENTRATED FLOW.

GENERAL NOTES:

- SILT FENCE SHALL GENERALLY BE PLACED A MINIMUM OF 5 FEET BEYOND TOE OF SLOPE, 10 FEET PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
- ALL ENDS SHALL BE "J" HOOKED TO TRAP SEDIMENT.
- IN AREAS WITH TWO SLOPES, SILT FENCE SHALL BE USED TO ERECT A DAM AND TRAP SEDIMENT AT THE BASE OF THE STEEPER SLOPE.
- THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6 INCHES BELOW GROUND, AND KEYED IN 4 INCHES. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
- MAXIMUM DRAINAGE AREA TRIBUTARY TO 100 FEET OF SILT FENCE SHALL BE 0.25 ACRES.
- THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS FOR THESE MEASURES:

| CONSTRUCTED SLOPE | SLOPE LENGTH (LS) FT | HORIZONTAL LENGTH (LH) FT |
|-------------------|----------------------|---------------------------|
| 3 : 1 | 80 | 75 |
| 4 : 1 | 130 | 125 |
| 5 : 1 | 200 | 200 |
| > 5 : 1 | 250 | 250 |

- MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.
- MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
- SILT FENCE SHALL BE REMOVED WHEN THE AREA HAS BEEN STABILIZED. AT TIME OF REMOVAL OF THE SILT FENCE, THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED.
- PAYMENT FOR INSTALLATION AND REMOVAL OF SILT FENCE SHALL BE MADE UNDER THE GEOTEXTILE FOR SILT FENCE ITEM.
- PAYMENT FOR MONITORING AND MAINTAINING SILT FENCE SHALL BE MADE UNDER THE MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN (N.A.B.I.) ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



- PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
- ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
- DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

EROSION PREVENTION & SEDIMENT CONTROL DETAILS SILT FENCE

EPSC-1

| | |
|--|------------------------|
| PROJECTS: | |
| CENTRAL REGION | |
| DESIGN FILE NAME: 04j160/Structures/04j160ec.dgn | PLOT DATE: 06-APR-2007 |
| IPARM FILE NAME: 04j160ec.i | DRAWN BY: J. WHITE |
| DESIGNED BY: J. WEAVER | CHECKED BY: J. WEAVER |
| SILT FENCE | SHEET: 9 OF 9 |