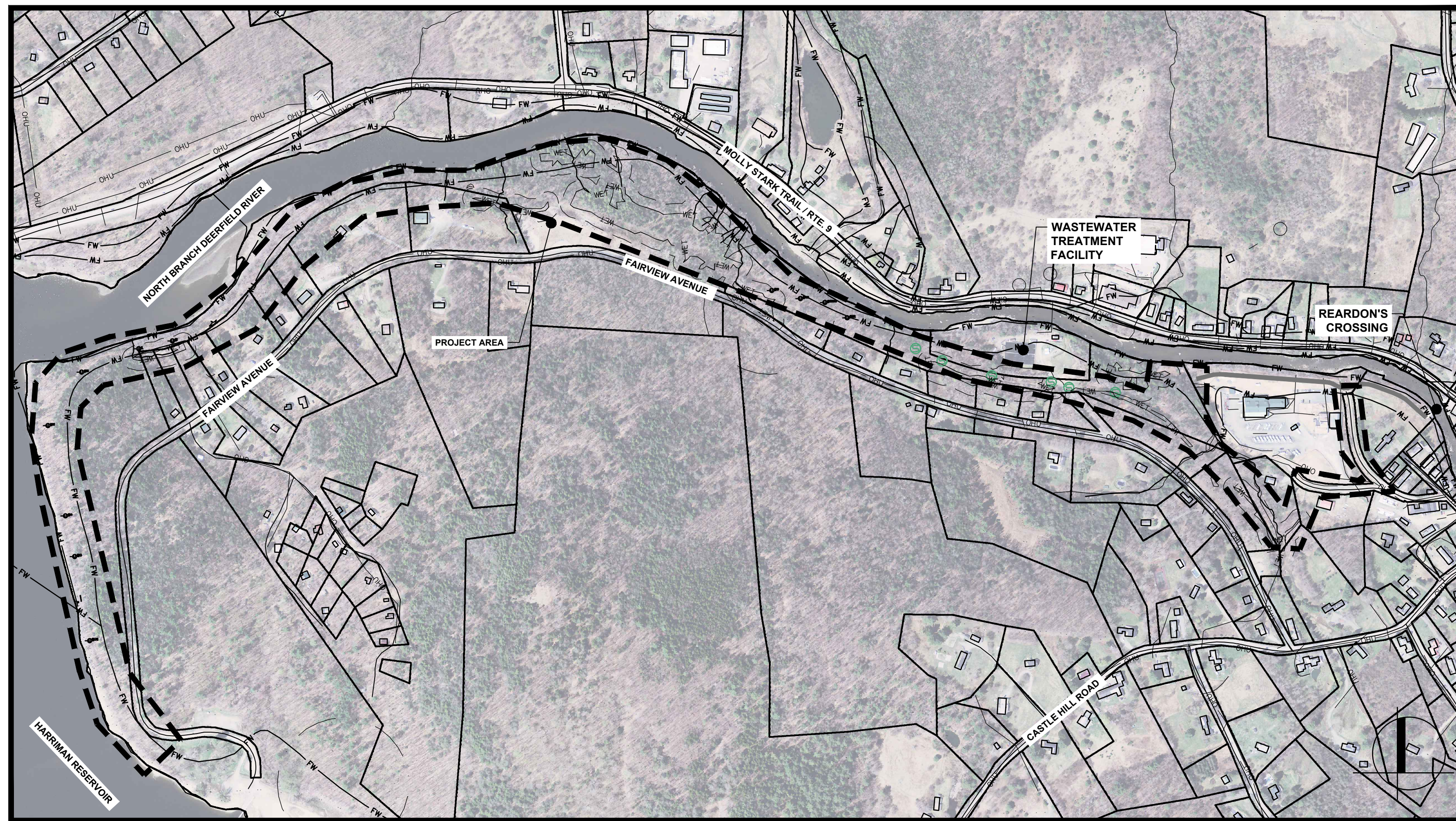


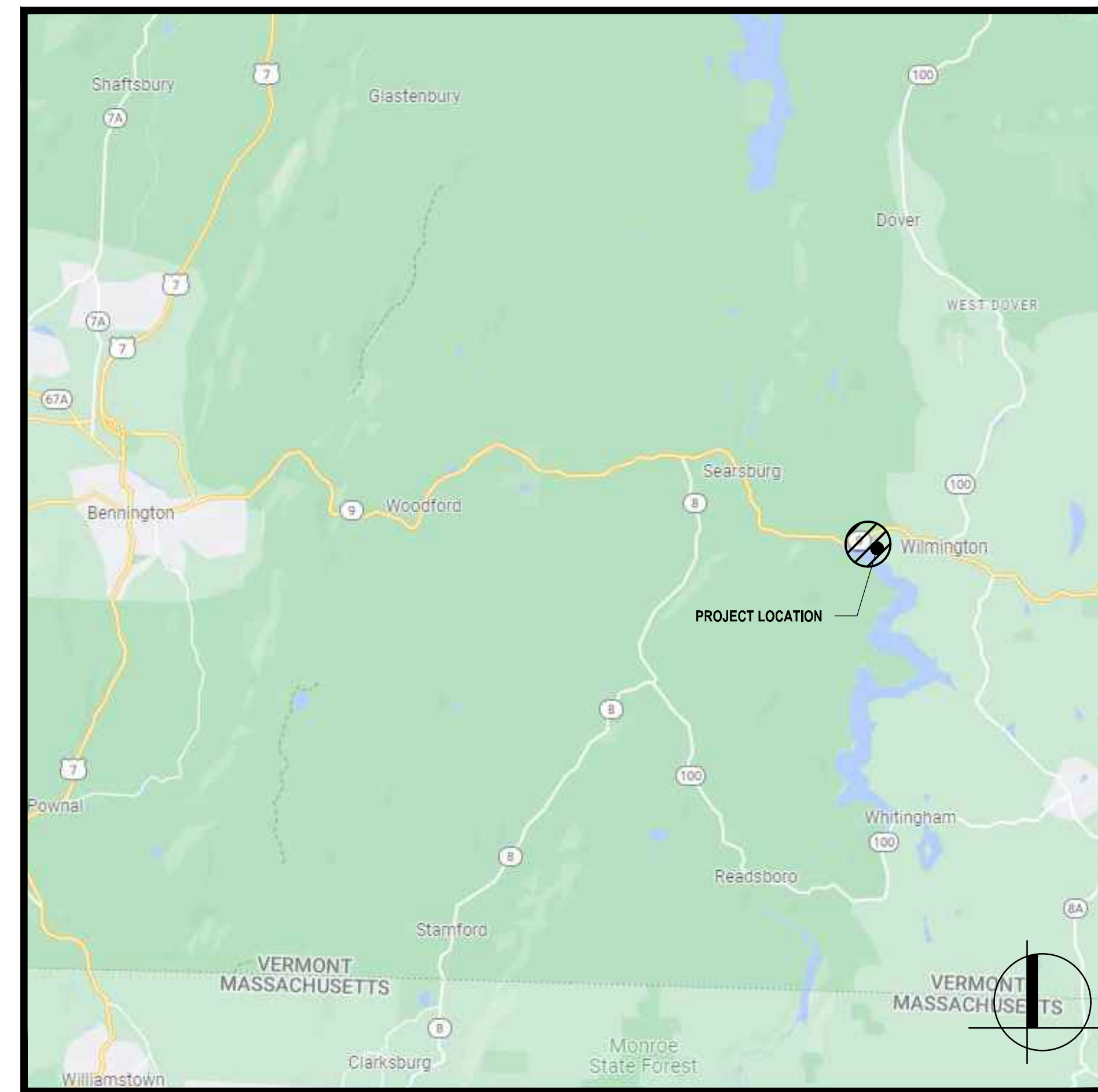
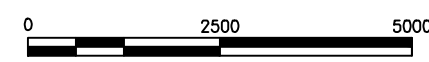


HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT

FAIRVIEW AVENUE, WILMINGTON, VERMONT 05363



OVERALL PROJECT AREA



VICINITY MAP

NOT TO SCALE

Sheet List Table	
SHEET NUMBER	SHEET TITLE
C000	COVER SHEET
C001	GENERAL NOTES AND ABBREVIATIONS
C100	PROPOSED IMPROVEMENT PLAN OVERALL
C101	PROPOSED IMPROVEMENT PLAN
C102	PROPOSED IMPROVEMENT PLAN
C103	PROPOSED IMPROVEMENT PLAN
C104	PROPOSED IMPROVEMENT PLAN
C105	ENLARGEMENT IMPROVEMENT PLAN
C500	EROSION AND SEDIMENT CONTROL DETAILS
C501	TYPICAL TRAIL SECTION DETAILS

ATTACHMENTS	
Sheet Number	Sheet Title
ATTACHMENT A	
STD_961-20-01	MULTIPLE LOG STRINGER TRAIL BRIDGE
STD_961-20-02b	MULTIPLE LOG STRINGER TRAIL BRIDGE
STD_961-20-03b	MULTIPLE LOG STRINGER TRAIL BRIDGE
STD_961-20-04	MULTIPLE LOG STRINGER TRAIL BRIDGE
STD_961-20-05	MULTIPLE LOG STRINGER TRAIL BRIDGE
STD_961-20-06	MULTIPLE LOG STRINGER TRAIL BRIDGE
ATTACHMENT B	
STD_938-10-01	STANDARD BOARDWALK
STD_938-10-02	STANDARD BOARDWALK
STD_938-10-03	STANDARD BOARDWALK
ATTACHMENT C	
STD_936-20-02	OVERLAPPING TIMBER STEP

PREPARED BY:



Weston & Sampson Engineers, Inc.
 1 Winners Circle, Suite 130
 Albany, NY 12205
 518.463.4400 800.SAMPSON
 www.westonandsampson.com

Issued Date:

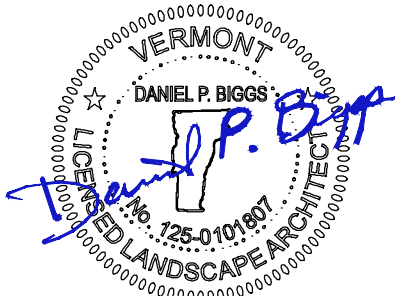
JUNE 11, 2024



Know what's below.
Call before you dig.

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Consultant Contact Information:
 Daniel P. Biggs, RLA, ISA, CERP - Associate | Regional Manager
 Weston & Sampson Engineers, Inc.
 1 Winners Circle, Suite 130, Albany NY 12205
 518-463-4400

GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION AND COORDINATE WITH OTHERS AS REQUIRED.
2. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATELY LOCATED AND ARE FOR INFORMATION ONLY...

BASE MAPPING NOTES

- 1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION...
2. INFORMATION SHOWN IS BASED UPON PUBLICLY AVAILABLE GIS INFORMATION PROVIDED BY THE STATE OF VERMONT.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AC (ASBESTOS CEMENT PIPE), ACCMP (ASPHALT COATED CORRUGATED METAL PIPE), ARV (APPROX), etc.

GENERAL MAINTENANCE PLAN

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK...
2. SEDIMENT WILL BE REMOVED FROM BEHIND STRAW WATTLES AND BEHIND SILT FENCES WHEN IT BECOMES 6" DEEP AT THE DIKE/FENCE...

PROTECTION OF TREES:

PROTECT EXISTING TREES WITHIN 5' OF CENTERLINE OF TRAIL WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS...

- 1. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNATED FOR PROTECTION...
2. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.

REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE DISPLACED ROCKS FROM UNCLEARED AREAS...

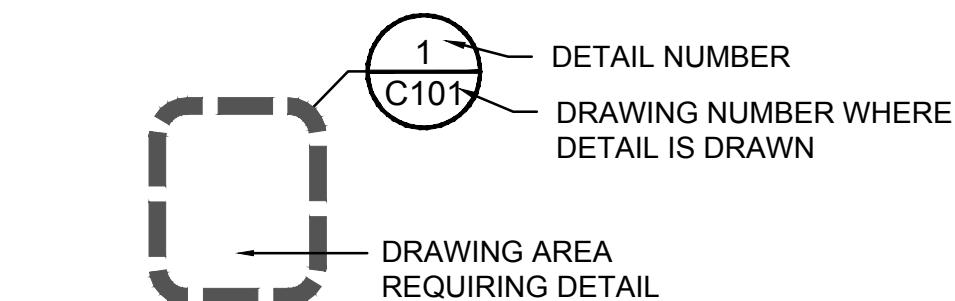
LANDSCAPE REPLACEMENT:

REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAMAGED TREES AND LANDSCAPE FEATURES.

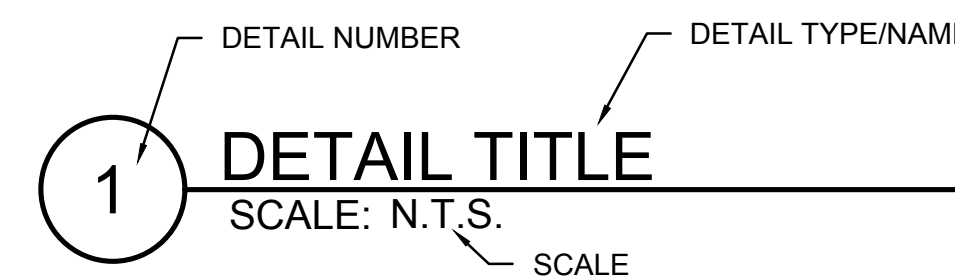
SUGGESTED EROSION CONTROL CONSTRUCTION SCHEDULE

- 1. FLAG THE GRADING LIMITS AND MARK A 10' BUFFER AREA BEYOND THE GRADING LIMITS FOR PROTECTION.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT APPROXIMATE LOCATION OF DRIVEWAY IF DRIVEWAY STONE HAS NOT YET BEEN PLACED.

DRAWING ORGANIZATION



DETAIL INDICATOR & DETAIL SYMBOL



DETAIL TITLE ON DETAIL DRAWING

Project: TOWN OF WILMINGTON
Logo for WILMINGTON TRAIL COMMITTEE
HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT
FAIRVIEW AVENUE, WILMINGTON, VERMONT 05363

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Seal: Daniel P. Biggs, P.E., Vermont Professional Engineer, Vermont Professional Landscaper/Architect

Issued For: CONSTRUCTION DOCUMENTS
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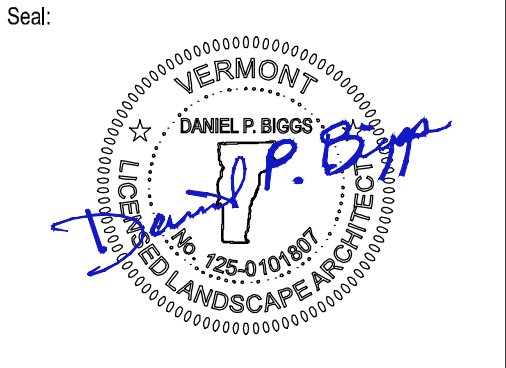
Date: JUNE 11, 2024
Drawn By: JWG,EJP
Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title: GENERAL NOTES AND ABBREVIATIONS
Sheet Number: C001



No.	Date	Description

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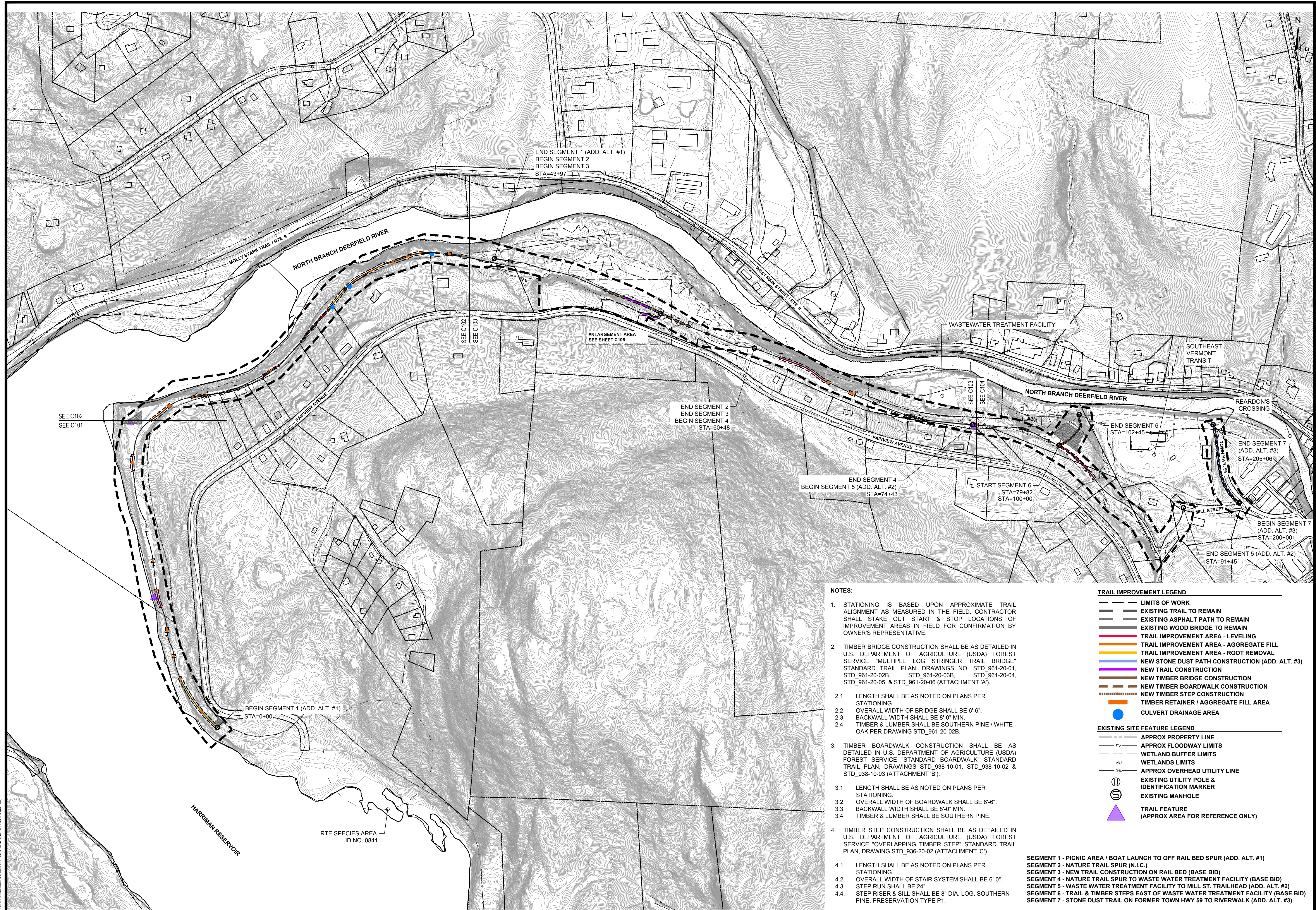
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Drawn By: JWG,EJP
Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title:
PROPOSED IMPROVEMENT PLAN OVERALL

Sheet Number:
C100



END SEGMENT 1 (ADD. ALT. #1)
BEGIN SEGMENT 2
BEGIN SEGMENT 3
STA=43+97

END SEGMENT 2
END SEGMENT 3
BEGIN SEGMENT 4
STA=60+48

END SEGMENT 4
BEGIN SEGMENT 5 (ADD. ALT. #2)
STA=74+43

END SEGMENT 6
STA=102+45

END SEGMENT 7
(ADD. ALT. #3)
STA=205+06

BEGIN SEGMENT 7
(ADD. ALT. #3)
STA=200+00

END SEGMENT 5 (ADD. ALT. #2)
STA=91+45

BEGIN SEGMENT 1 (ADD. ALT. #1)
STA=0+00

NOTES:

- STATIONING IS BASED UPON APPROXIMATE TRAIL ALIGNMENT AS MEASURED IN THE FIELD. CONTRACTOR SHALL STAKE OUT START & STOP LOCATIONS OF IMPROVEMENT AREAS IN FIELD FOR CONFIRMATION BY OWNER'S REPRESENTATIVE.
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- TIMBER STEP CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "OVERLAPPING TIMBER STEP" STANDARD TRAIL PLAN, DRAWING STD_936-20-02 (ATTACHMENT 'C').
 - LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - OVERALL WIDTH OF STAIR SYSTEM SHALL BE 6'-0".
 - STEP RUN SHALL BE 24".
 - STEP RISER & SILL SHALL BE 8" DIA. LOG, SOUTHERN PINE, PRESERVATION TYPE P1.

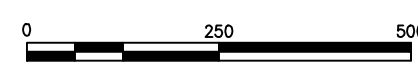
TRAIL IMPROVEMENT LEGEND

- LIMITS OF WORK
- EXISTING TRAIL TO REMAIN
- EXISTING ASPHALT PATH TO REMAIN
- EXISTING WOOD BRIDGE TO REMAIN
- TRAIL IMPROVEMENT AREA - LEVELING
- TRAIL IMPROVEMENT AREA - AGGREGATE FILL
- TRAIL IMPROVEMENT AREA - ROOT REMOVAL
- NEW STONE DUST PATH CONSTRUCTION (ADD. ALT. #3)
- NEW TRAIL CONSTRUCTION
- NEW TIMBER BRIDGE CONSTRUCTION
- NEW TIMBER BOARDWALK CONSTRUCTION
- NEW TIMBER STEP CONSTRUCTION
- TIMBER RETAINER / AGGREGATE FILL AREA
- CULVERT DRAINAGE AREA

EXISTING SITE FEATURE LEGEND

- APPROX PROPERTY LINE
- APPROX FLOODWAY LIMITS
- WETLAND BUFFER LIMITS
- WETLANDS LIMITS
- APPROX OVERHEAD UTILITY LINE
- ⊕ EXISTING UTILITY POLE & IDENTIFICATION MARKER
- ⊗ EXISTING MANHOLE
- ▲ TRAIL FEATURE (APPROX AREA FOR REFERENCE ONLY)

SEGMENT 1 - PICNIC AREA / BOAT LAUNCH TO OFF RAIL BED SPUR (ADD. ALT. #1)
 SEGMENT 2 - NATURE TRAIL SPUR (N.I.C.)
 SEGMENT 3 - NEW TRAIL CONSTRUCTION ON RAIL BED (BASE BID)
 SEGMENT 4 - NATURE TRAIL SPUR TO WASTE WATER TREATMENT FACILITY (BASE BID)
 SEGMENT 5 - WASTE WATER TREATMENT FACILITY TO MILL ST. TRAILHEAD (ADD. ALT. #2)
 SEGMENT 6 - TRAIL & TIMBER STEPS EAST OF WASTE WATER TREATMENT FACILITY (BASE BID)
 SEGMENT 7 - STONE DUST TRAIL ON FORMER TOWN HWY 59 TO RIVERWALK (ADD. ALT. #3)



TRAIL IMPROVEMENT LEGEND

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 - 3.2. OVERALL WIDTH OF BOARDWALK SHALL BE 6'-6".
 - 3.3. BACKWALL WIDTH SHALL BE 8'-0" MIN.
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4. TIMBER STEP CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "OVERLAPPING TIMBER STEP" STANDARD TRAIL PLAN, DRAWING STD_936-20-02 (ATTACHMENT 'C').
 - 4.1. LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - 4.2. OVERALL WIDTH OF STAIR SYSTEM SHALL BE 6'-0".
 - 4.3. STEP RUN SHALL BE 24".
 - 4.4. STEP RISER & SILL SHALL BE 8" DIA. LOG, SOUTHERN PINE, PRESERVATION TYPE P1.



Project: TOWN OF WILMINGTON



HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT
FAIRVIEW AVENUE, WILMINGTON, VERMONT 05363



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Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title:

PROPOSED IMPROVEMENT PLAN

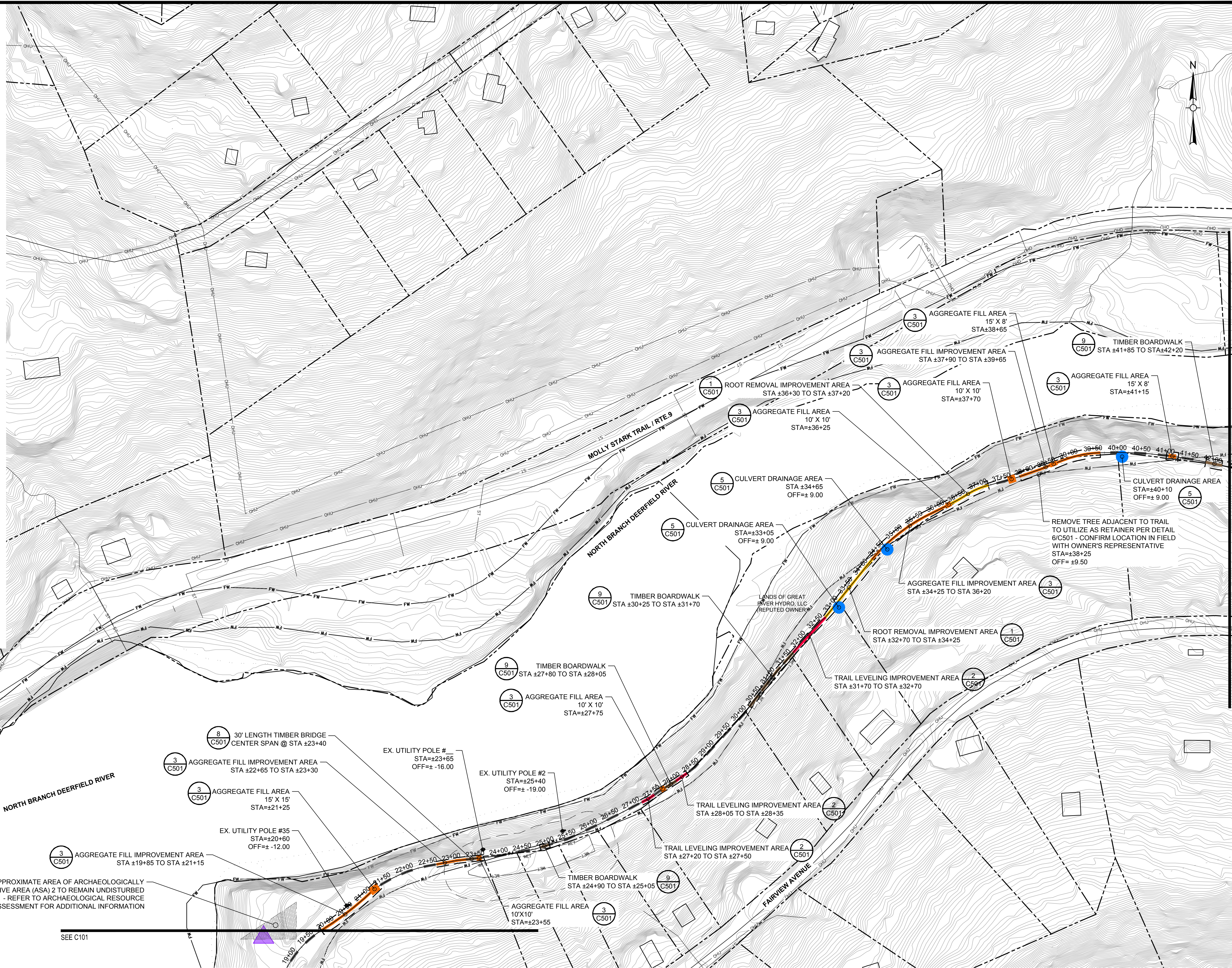
Sheet Number:

C101

- TRAIL IMPROVEMENT LEGEND**
- LIMITS OF WORK
 - EXISTING TRAIL TO REMAIN
 - EXISTING ASPHALT PATH TO REMAIN
 - EXISTING WOOD BRIDGE TO REMAIN
 - TRAIL IMPROVEMENT AREA - LEVELING
 - TRAIL IMPROVEMENT AREA - AGGREGATE FILL
 - TRAIL IMPROVEMENT AREA - ROOT REMOVAL
 - NEW STONE DUST PATH CONSTRUCTION (ADD. ALT. #3)
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 - NEW TIMBER BRIDGE CONSTRUCTION
 - NEW TIMBER BOARDWALK CONSTRUCTION
 - NEW TIMBER STEP CONSTRUCTION
 - TIMBER RETAINER / AGGREGATE FILL AREA
 - CULVERT DRAINAGE AREA

- EXISTING SITE FEATURE LEGEND**
- APPROX PROPERTY LINE
 - APPROX FLOODWAY LIMITS
 - WETLAND BUFFER LIMITS
 - WETLANDS LIMITS
 - APPROX OVERHEAD UTILITY LINE
 - EXISTING UTILITY POLE & IDENTIFICATION MARKER
 - EXISTING MANHOLE
 - ▲ TRAIL FEATURE (APPROX AREA FOR REFERENCE ONLY)

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Approved By: DPB
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W&S File No.:

Drawing Title: **PROPOSED IMPROVEMENT PLAN**

Sheet Number: **C102**

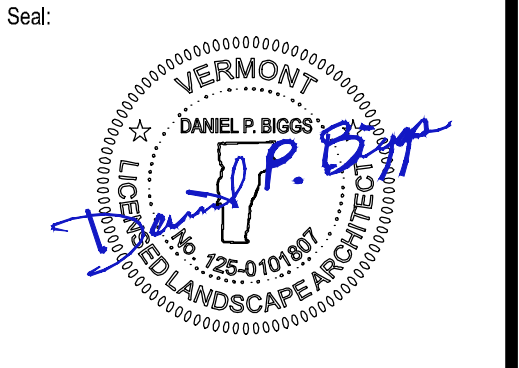
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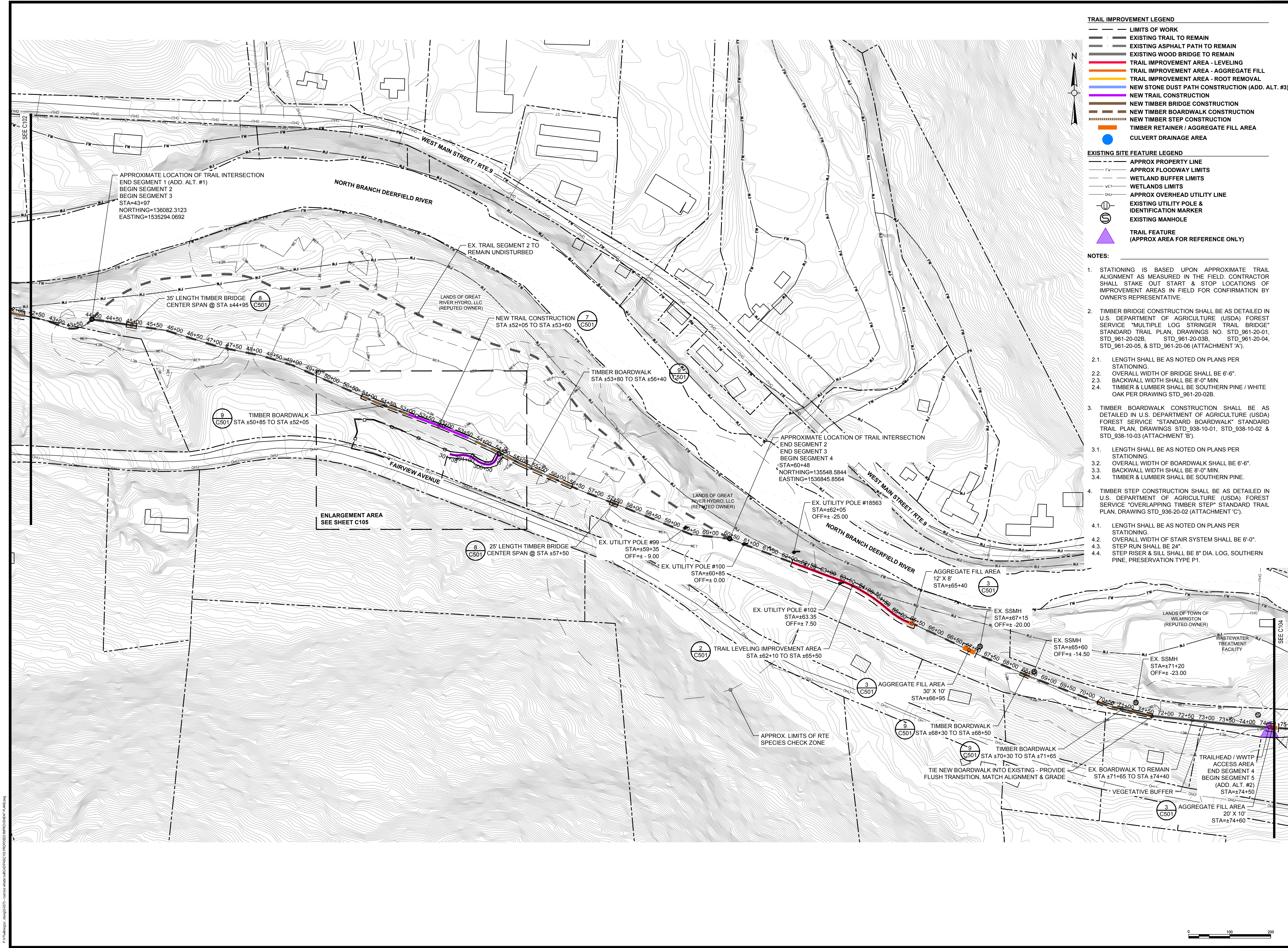


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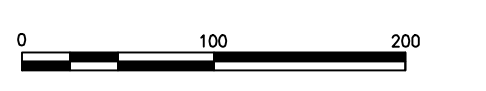
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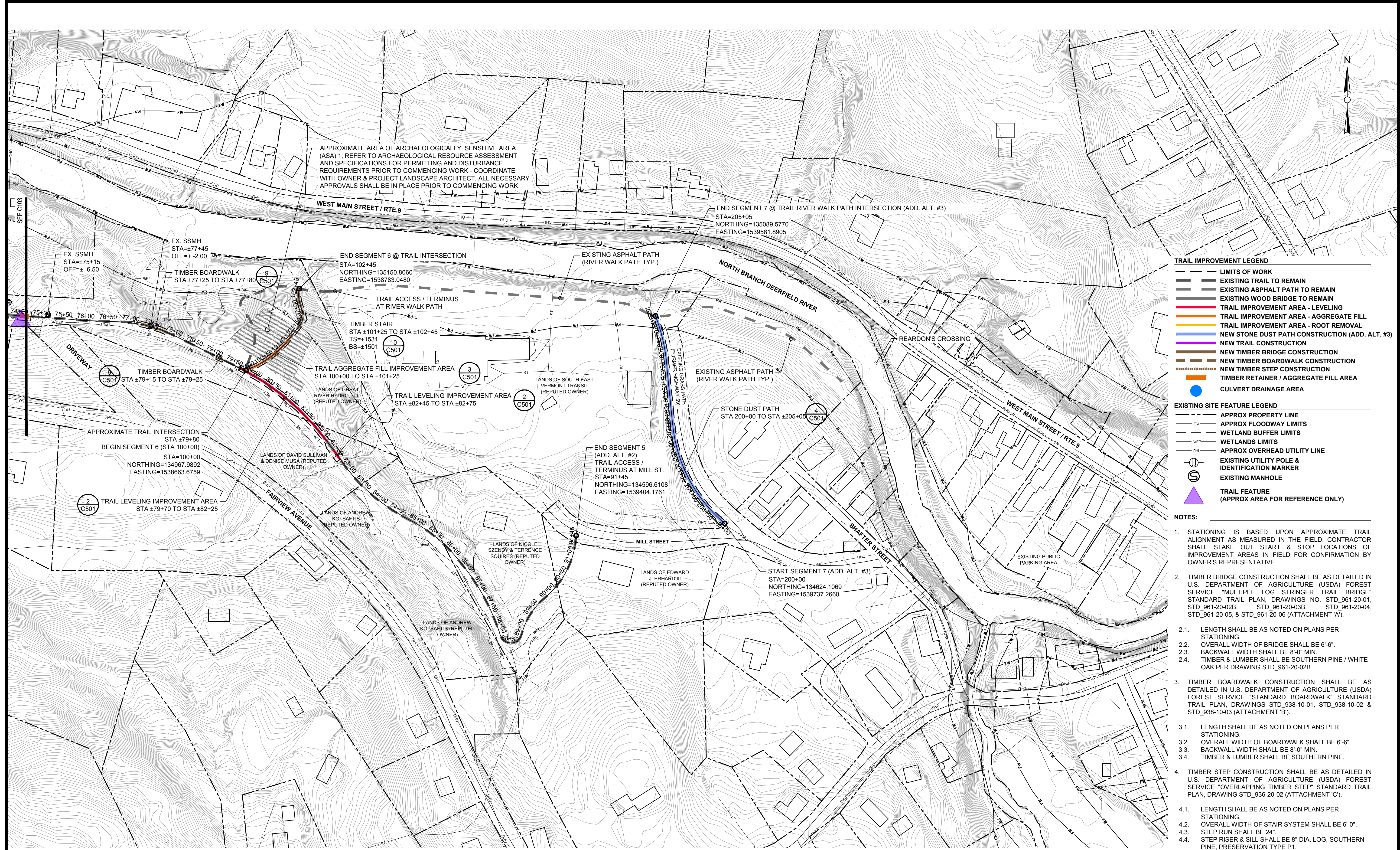


- TRAIL IMPROVEMENT LEGEND**
- LIMITS OF WORK
 - - - EXISTING TRAIL TO REMAIN
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 - BACKWALL WIDTH SHALL BE 8'-0" MIN.
 - TIMBER & LUMBER SHALL BE SOUTHERN PINE / WHITE OAK PER DRAWING STD_961-20-02B.
 - TIMBER BOARDWALK CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "STANDARD BOARDWALK" STANDARD TRAIL PLAN, DRAWINGS STD_938-10-01, STD_938-10-02 & STD_938-10-03 (ATTACHMENT 'B').
 - LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - OVERALL WIDTH OF BOARDWALK SHALL BE 6'-6".
 - BACKWALL WIDTH SHALL BE 8'-0" MIN.
 - TIMBER & LUMBER SHALL BE SOUTHERN PINE.
 - TIMBER STEP CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "OVERLAPPING TIMBER STEP" STANDARD TRAIL PLAN, DRAWING STD_936-20-02 (ATTACHMENT 'C').
 - LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - OVERALL WIDTH OF STAIR SYSTEM SHALL BE 6'-0".
 - STEP RUN SHALL BE 24".
 - STEP RISER & SILL SHALL BE 8" DIA. LOG, SOUTHERN PINE, PRESERVATION TYPE P1.

P:\Projects\2024\24-0373\Drawings\24-0373-C103-Proposed Improvement Plan.dwg





APPROXIMATE AREA OF ARCHAEOLOGICALLY SENSITIVE AREA (ASA) 1; REFER TO ARCHAEOLOGICAL RESOURCE ASSESSMENT AND SPECIFICATIONS FOR PERMITTING AND DISTURBANCE REQUIREMENTS PRIOR TO COMMENCING WORK - COORDINATE WITH OWNER & PROJECT LANDSCAPE ARCHITECT. ALL NECESSARY APPROVALS SHALL BE IN PLACE PRIOR TO COMMENCING WORK

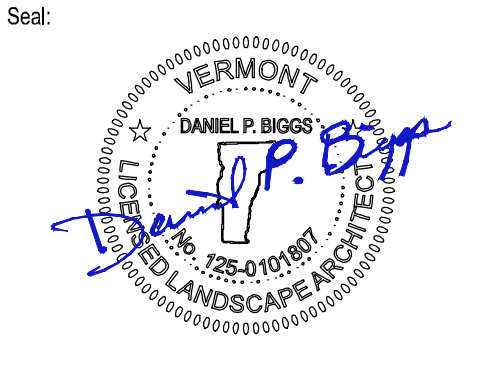
- TRAIL IMPROVEMENT LEGEND**
- LIMITS OF WORK
 - EXISTING TRAIL TO REMAIN
 - EXISTING ASPHALT PATH TO REMAIN
 - EXISTING WOOD BRIDGE TO REMAIN
 - TRAIL IMPROVEMENT AREA - LEVELING
 - TRAIL IMPROVEMENT AREA - AGGREGATE FILL
 - TRAIL IMPROVEMENT AREA - ROOT REMOVAL
 - NEW STONE DUST PATH CONSTRUCTION (ADD. ALT. #3)
 - NEW TRAIL CONSTRUCTION
 - NEW TIMBER BRIDGE CONSTRUCTION
 - NEW TIMBER BOARDWALK CONSTRUCTION
 - NEW TIMBER STEP CONSTRUCTION
 - TIMBER RETAINER / AGGREGATE FILL AREA
 - CULVERT DRAINAGE AREA
- EXISTING SITE FEATURE LEGEND**
- APPROX PROPERTY LINE
 - APPROX FLOODWAY LIMITS
 - WETLAND BUFFER LIMITS
 - WETLANDS LIMITS
 - APPROX OVERHEAD UTILITY LINE
 - EXISTING UTILITY POLE & IDENTIFICATION MARKER
 - EXISTING MANHOLE
 - ▲ TRAIL FEATURE (APPROX AREA FOR REFERENCE ONLY)

- NOTES:**
1. STATIONING IS BASED UPON APPROXIMATE TRAIL ALIGNMENT AS MEASURED IN THE FIELD. CONTRACTOR SHALL STAKE OUT START & STOP LOCATIONS OF IMPROVEMENT AREAS IN FIELD FOR CONFIRMATION BY OWNER'S REPRESENTATIVE.
 2. TIMBER BRIDGE CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "MULTIPLE LOG STRINGER TRAIL BRIDGE" STANDARD TRAIL PLAN, DRAWINGS NO. STD_961-20-01, STD_961-20-02B, STD_961-20-03B, STD_961-20-04, STD_961-20-05, & STD_961-20-06 (ATTACHMENT 'A').
 - 2.1. LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - 2.2. OVERALL WIDTH OF BRIDGE SHALL BE 6'-6".
 - 2.3. BACKWALL WIDTH SHALL BE 8'-0" MIN.
 - 2.4. TIMBER & LUMBER SHALL BE SOUTHERN PINE / WHITE OAK PER DRAWING STD_961-20-02B.
 3. TIMBER BOARDWALK CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "STANDARD BOARDWALK" STANDARD TRAIL PLAN, DRAWINGS STD_938-10-01, STD_938-10-02 & STD_938-10-03 (ATTACHMENT 'B').
 - 3.1. LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - 3.2. OVERALL WIDTH OF BOARDWALK SHALL BE 6'-6".
 - 3.3. BACKWALL WIDTH SHALL BE 8'-0" MIN.
 - 3.4. TIMBER & LUMBER SHALL BE SOUTHERN PINE.
 4. TIMBER STEP CONSTRUCTION SHALL BE AS DETAILED IN U.S. DEPARTMENT OF AGRICULTURE (USDA) FOREST SERVICE "OVERLAPPING TIMBER STEP" STANDARD TRAIL PLAN, DRAWING STD_936-20-02 (ATTACHMENT 'C').
 - 4.1. LENGTH SHALL BE AS NOTED ON PLANS PER STATIONING.
 - 4.2. OVERALL WIDTH OF STAIR SYSTEM SHALL BE 6'-0".
 - 4.3. STEP RUN SHALL BE 24".
 - 4.4. STEP RISER & SILL SHALL BE 8" DIA. LOG, SOUTHERN PINE, PRESERVATION TYPE P1.

Consultants:

No.	Date	Description

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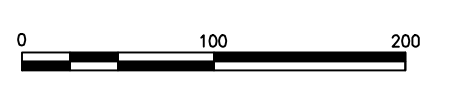
Issued For:
CONSTRUCTION DOCUMENTS

Scale: AS NOTED

Date: JUNE 11, 2024
 Drawn By: JWG.EJP
 Reviewed By: DFG
 Approved By: DPB
 W&S Project No.: ENG22-0373
 W&S File No.:

Drawing Title:
PROPOSED IMPROVEMENT PLAN

Sheet Number:
C104

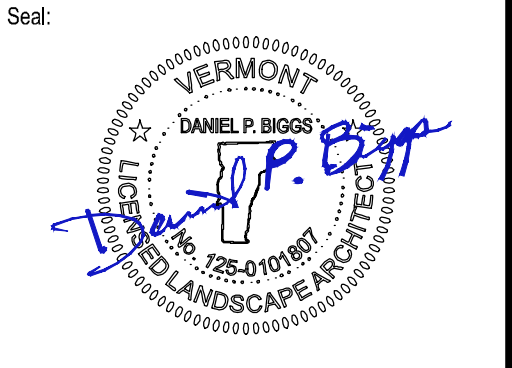




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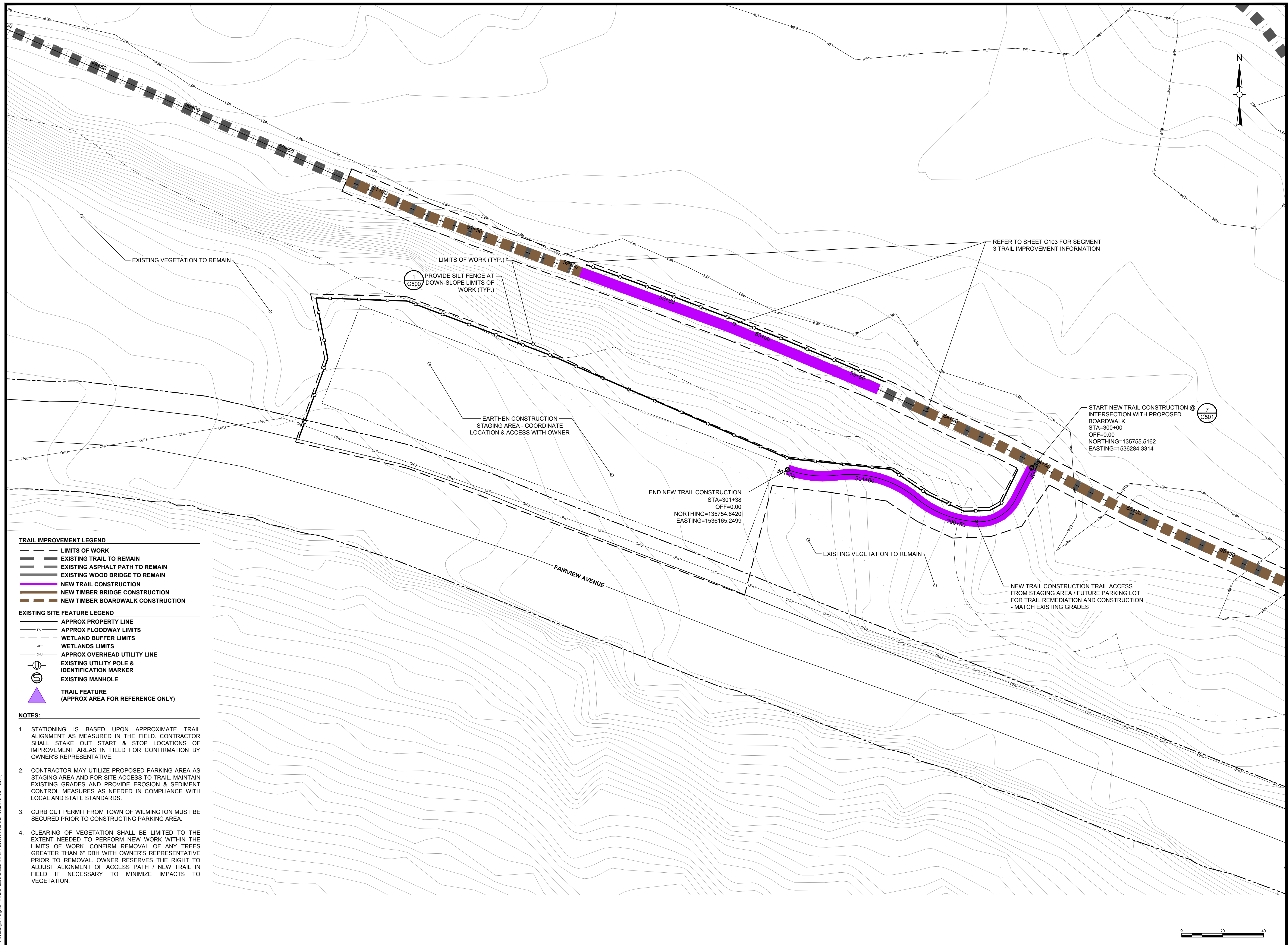
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Scale: AS NOTED

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Drawn By: JWG.EJP
Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title: ENLARGEMENT IMPROVEMENT PLAN

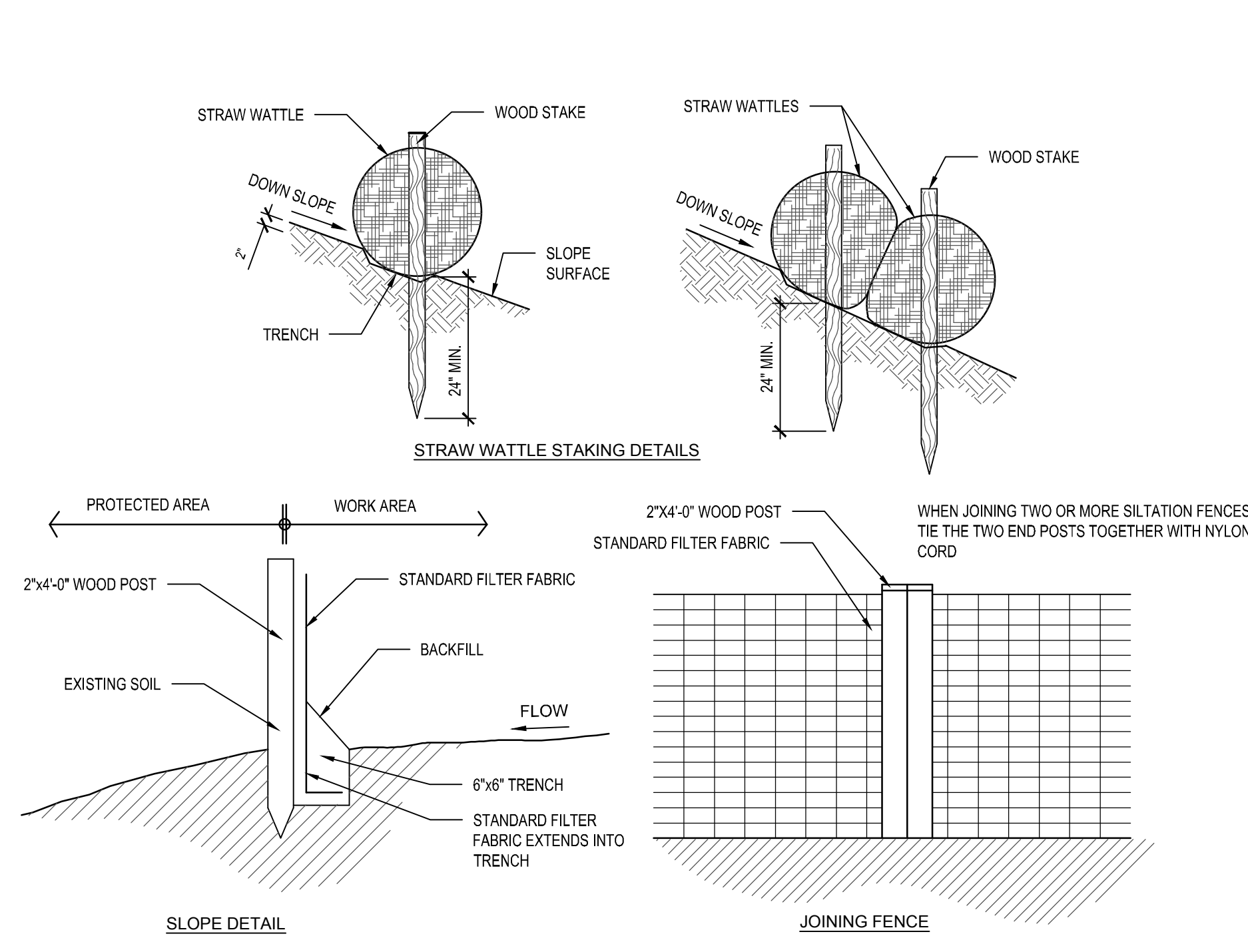
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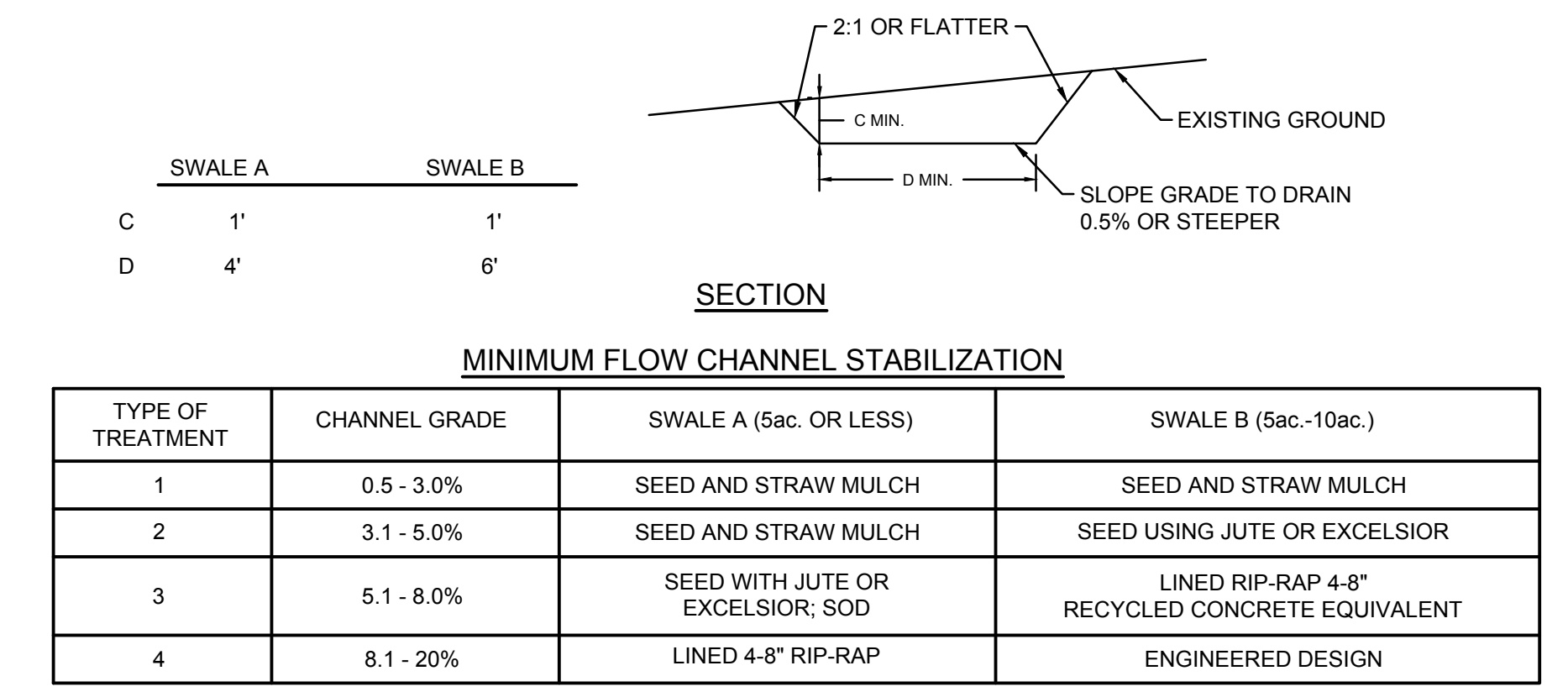
- TRAIL IMPROVEMENT LEGEND
- LIMITS OF WORK
- EXISTING TRAIL TO REMAIN
- EXISTING ASPHALT PATH TO REMAIN
- EXISTING WOOD BRIDGE TO REMAIN
- NEW TRAIL CONSTRUCTION
- NEW TIMBER BRIDGE CONSTRUCTION
- NEW TIMBER BOARDWALK CONSTRUCTION
- EXISTING SITE FEATURE LEGEND
- APPROX PROPERTY LINE
- APPROX FLOODWAY LIMITS
- WETLAND BUFFER LIMITS
- WETLANDS LIMITS
- APPROX OVERHEAD UTILITY LINE
- EXISTING UTILITY POLE & IDENTIFICATION MARKER
- EXISTING MANHOLE
- TRAIL FEATURE (APPROX AREA FOR REFERENCE ONLY)

- NOTES:
1. STATIONING IS BASED UPON APPROXIMATE TRAIL ALIGNMENT AS MEASURED IN THE FIELD. CONTRACTOR SHALL STAKE OUT START & STOP LOCATIONS OF IMPROVEMENT AREAS IN FIELD FOR CONFIRMATION BY OWNER'S REPRESENTATIVE.
2. CONTRACTOR MAY UTILIZE PROPOSED PARKING AREA AS STAGING AREA AND FOR SITE ACCESS TO TRAIL. MAINTAIN EXISTING GRADES AND PROVIDE EROSION & SEDIMENT CONTROL MEASURES AS NEEDED IN COMPLIANCE WITH LOCAL AND STATE STANDARDS.
3. CURB CUT PERMIT FROM TOWN OF WILMINGTON MUST BE SECURED PRIOR TO CONSTRUCTING PARKING AREA.
4. CLEARING OF VEGETATION SHALL BE LIMITED TO THE EXTENT NEEDED TO PERFORM NEW WORK WITHIN THE LIMITS OF WORK. CONFIRM REMOVAL OF ANY TREES GREATER THAN 6" DBH WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL. OWNER RESERVES THE RIGHT TO ADJUST ALIGNMENT OF ACCESS PATH / NEW TRAIL IN FIELD IF NECESSARY TO MINIMIZE IMPACTS TO VEGETATION.

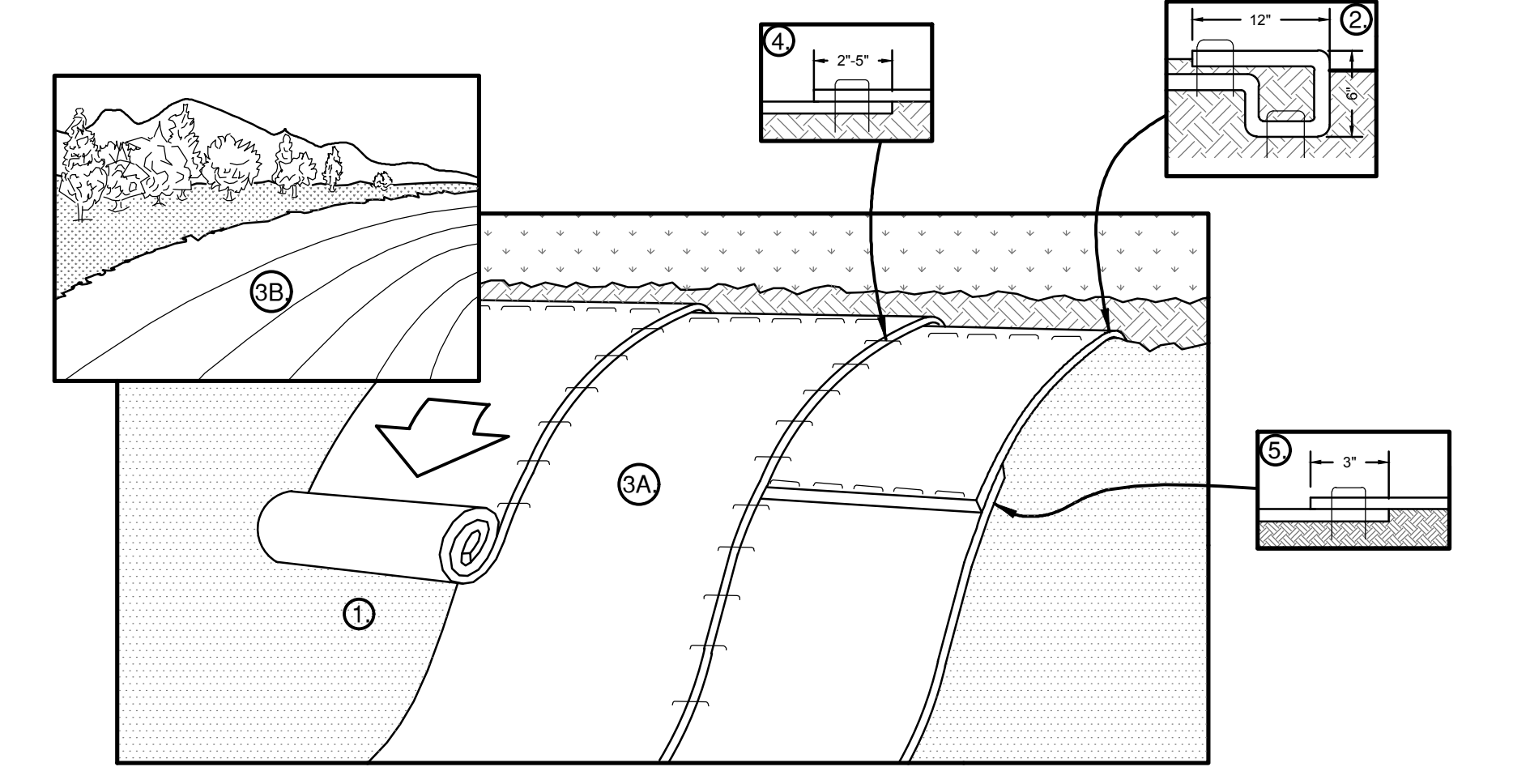
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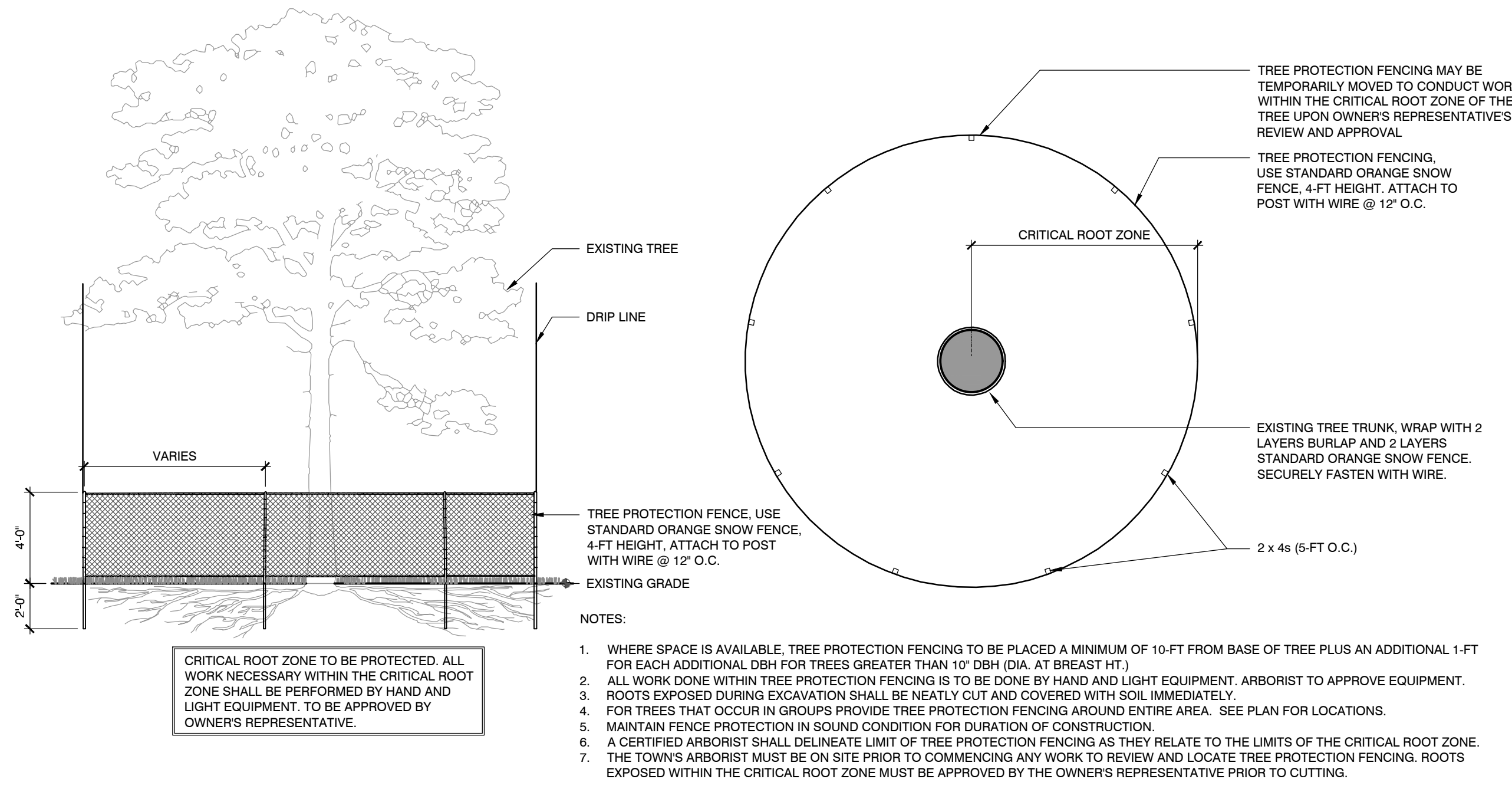
1 EROSION AND SEDIMENT CONTROL DEVICES
SCALE: N.T.S.



- 2 TEMPORARY DIVERSION SWALE**
SCALE: N.T.S.
- NOTES:
- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREE, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - STABILIZATION SHALL BE AS PER THE MINIMUM FLOW CHANNEL STABILIZATION CHART.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
 - FLOW CHANNEL STABILIZATION SHOWN ABOVE WILL REQUIRE SUBSEQUENT MAINTENANCE AND ATTENTION. SINCE RUNOFF PATTERNS, QUANTITY, QUALITY AND SEDIMENT CONTENT VARY WIDELY FROM SITE TO SITE, ACTUAL STABILIZATION MAY EXCEED THAT SHOWN IN THE CONTRACT DOCUMENTS. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO TOPSOIL/RESTORATION AREAS.
 - REMOVE TEMPORARY SWALE WHEN SITE IS SUBSTANTIALLY OR COMPLETELY STABILIZED AND SWALE IS NO LONGER REQUIRED. PERFORM FINAL GRADING AND ESTABLISH VEGETATION AT ALL DISTURBED AREAS.



- 3 SLOPE STABILIZATION MATTING**
SCALE: N.T.S.
- NOTES:
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S DOWN (A) OR HORIZONTALLY (B) ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2'-5" OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS THE ENTIRE RECP'S TYPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE STAKES LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



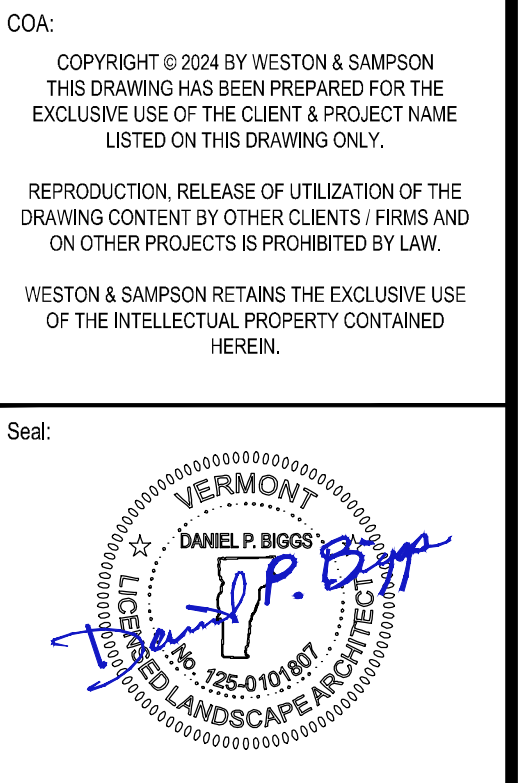
4 TREE PROTECTION
SCALE: N.T.S.

- NOTES:
- WHERE SPACE IS AVAILABLE, TREE PROTECTION FENCING TO BE PLACED A MINIMUM OF 10-FT FROM BASE OF TREE PLUS AN ADDITIONAL 1-FT FOR EACH ADDITIONAL DBH FOR TREES GREATER THAN 10" DBH (DIA. AT BREAST HT.).
 - ALL WORK DONE WITHIN TREE PROTECTION FENCING IS TO BE DONE BY HAND AND LIGHT EQUIPMENT. ARBORIST TO APPROVE EQUIPMENT.
 - ROOTS EXPOSED DURING EXCAVATION SHALL BE NEATLY CUT AND COVERED WITH SOIL IMMEDIATELY.
 - FOR TREES THAT OCCUR IN GROUPS PROVIDE TREE PROTECTION FENCING AROUND ENTIRE AREA. SEE PLAN FOR LOCATIONS.
 - MAINTAIN FENCE PROTECTION IN SOUND CONDITION FOR DURATION OF CONSTRUCTION.
 - A CERTIFIED ARBORIST SHALL DELINEATE LIMIT OF TREE PROTECTION FENCING AS THEY RELATE TO THE LIMITS OF THE CRITICAL ROOT ZONE.
 - THE TOWN'S ARBORIST MUST BE ON SITE PRIOR TO COMMENCING ANY WORK TO REVIEW AND LOCATE TREE PROTECTION FENCING. ROOTS EXPOSED WITHIN THE CRITICAL ROOT ZONE MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CUTTING.

Revisions:

No.	Date	Description

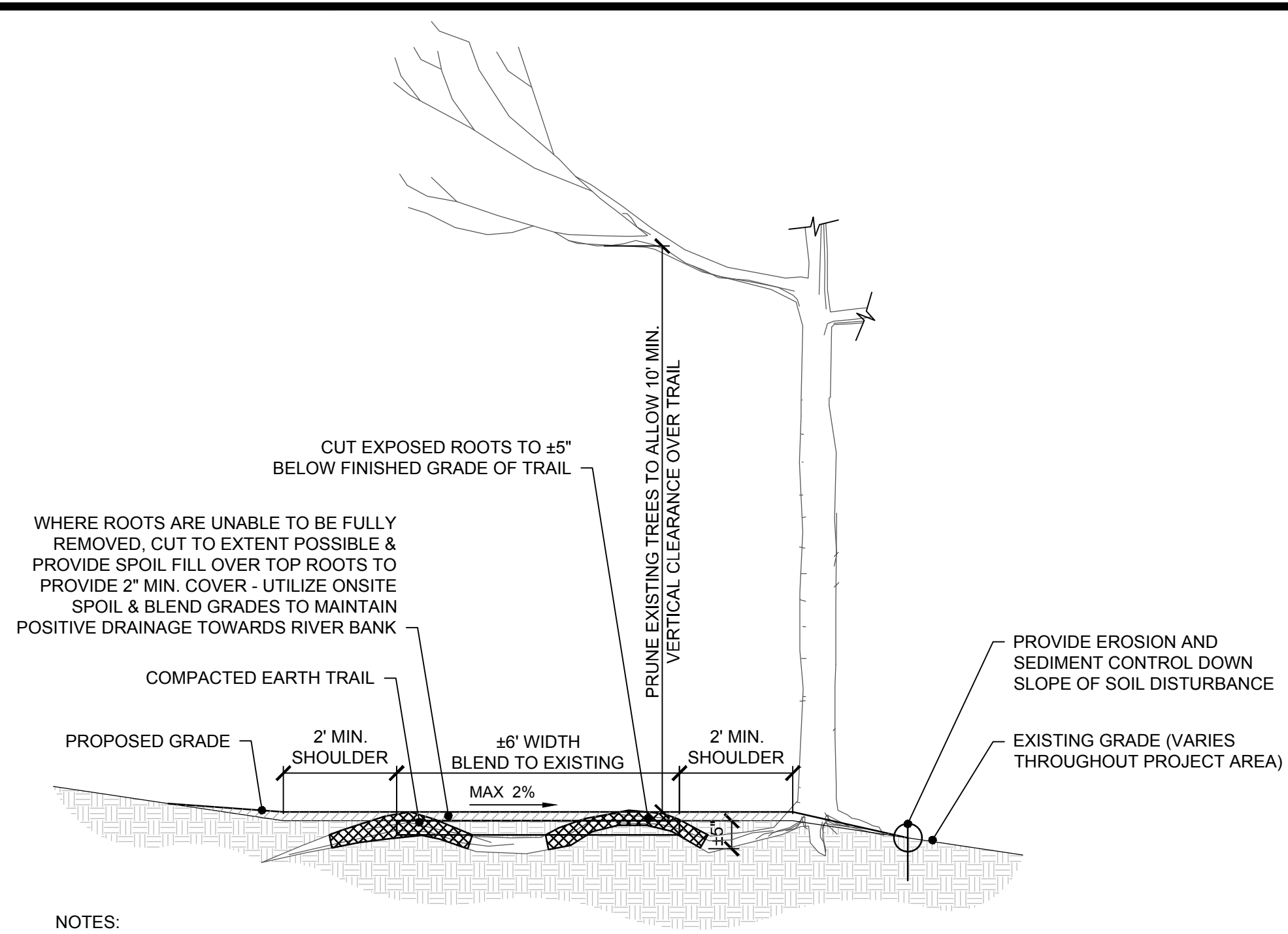
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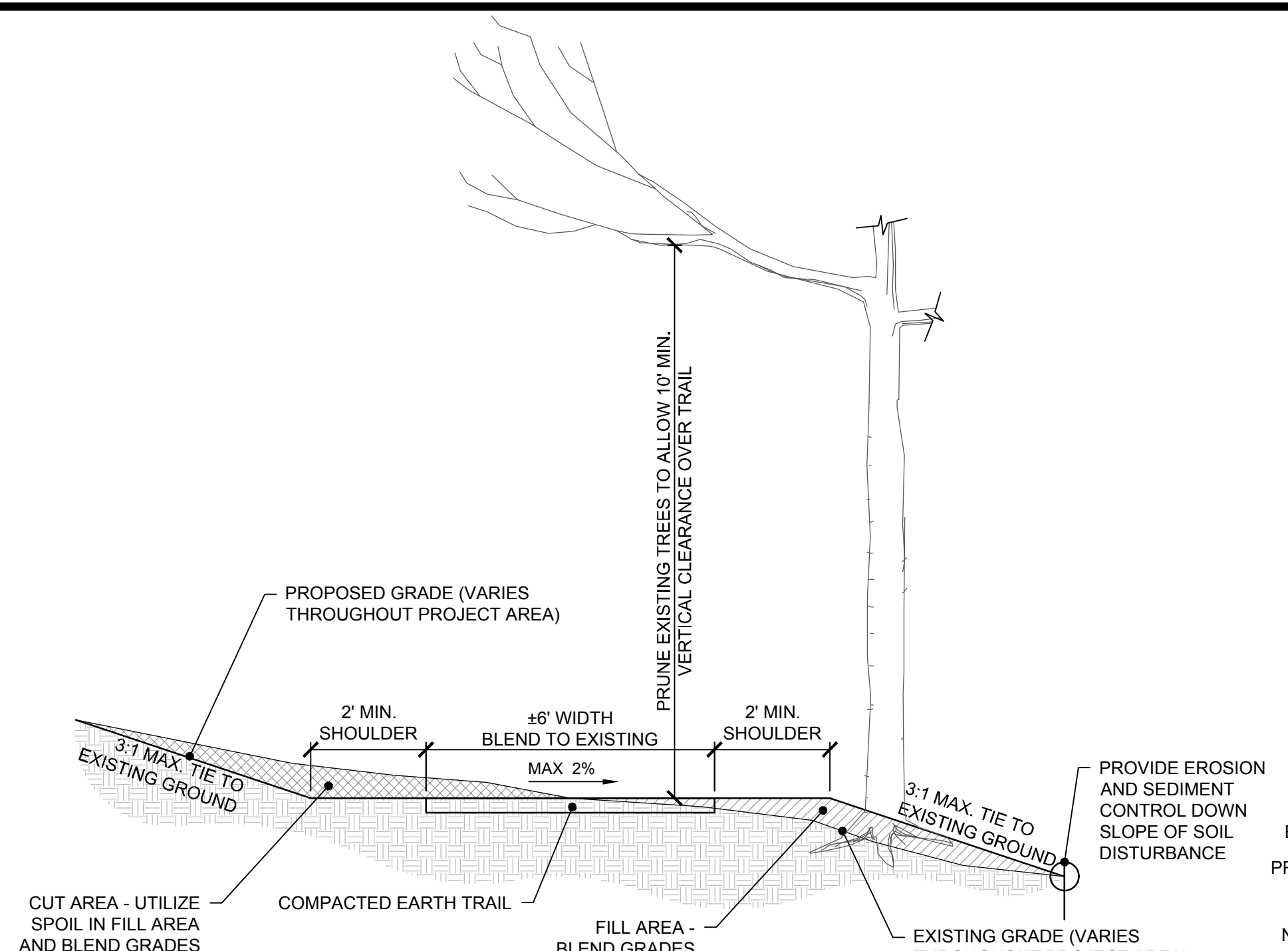
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Drawn By: JWG EJP
Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title:
EROSION AND SEDIMENT CONTROL DETAILS
Sheet Number:
C500



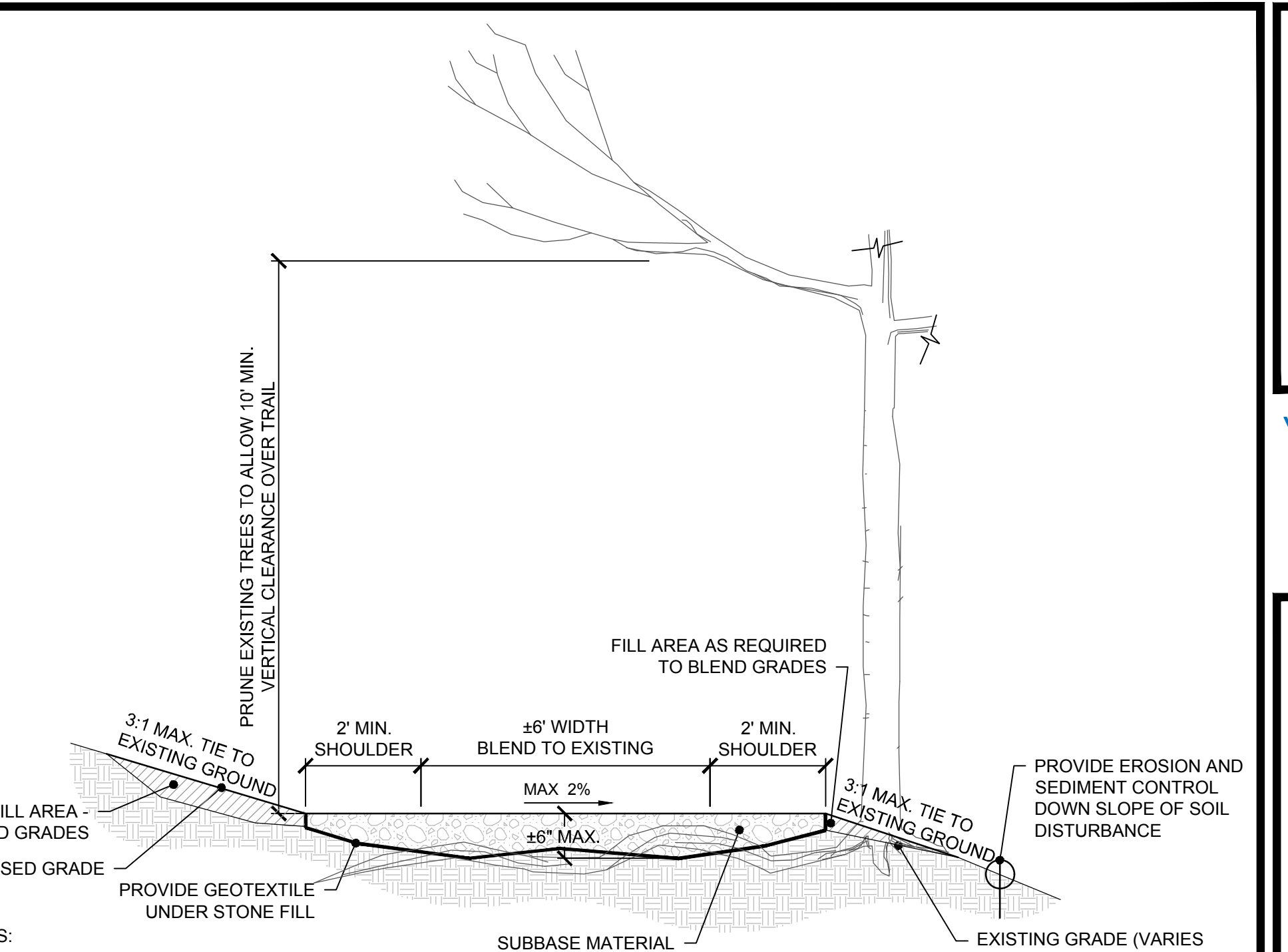
- NOTES:
1. ALL SPOIL TO REMAIN WITHIN IMPROVEMENT AREA. BLEND GRADES AS NEEDED TO EVENLY DISTRIBUTE SPOIL WHILE MAINTAINING 2% MAX. SLOPE TOWARDS RIVER BANK.
 2. TREE PRUNING SHALL COMPLY WITH THE NATIONAL ARBORIST ASSOCIATION'S "PRUNING STANDARDS FOR SHADE TREES."
 3. ROOT PRUNING & REMOVAL SHALL COMPLY WITH THE LATEST INTERNATIONAL SOCIETY OF ARBORICULTURE STANDARDS AND USDA FOREST SERVICE SPECIFICATIONS - REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 4. PROVIDE EROSION CONTROL, AS REQUIRED, DOWN SLOPE OF DISTURBED SOILS.
 5. SEED DISTURBED SOIL AREAS (OUTSIDE 6' TRAIL SURFACE) WITH LOAM & SEED PER PROJECT SPECIFICATIONS.

1 TYPICAL TRAIL SECTION - ROOT REMOVAL IMPROVEMENT AREA
SCALE: N.T.S.



- NOTES:
1. ALL SPOIL TO REMAIN WITHIN IMPROVEMENT AREA. BLEND GRADES AS NEEDED TO EVENLY DISTRIBUTE SPOIL WHILE MAINTAINING 2% MAX. SLOPE TOWARDS RIVER BANK.
 2. TREE PRUNING SHALL COMPLY WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE STANDARDS.
 3. PROVIDE EROSION CONTROL, AS REQUIRED, DOWN SLOPE OF DISTURBED SOILS.
 4. SEED DISTURBED SOIL AREAS (OUTSIDE 6' TRAIL SURFACE) WITH LOAM & SEED PER PROJECT SPECIFICATIONS.

2 TYPICAL TRAIL SECTION - TRAIL LEVELING IMPROVEMENT AREA
SCALE: N.T.S.



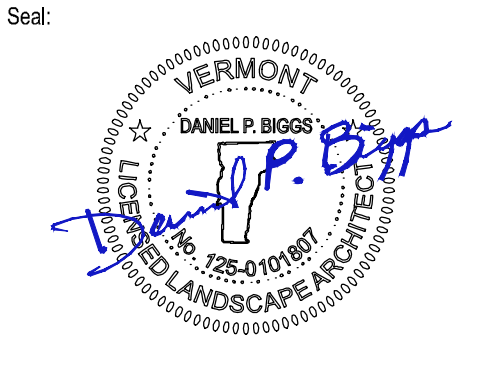
- NOTES:
1. ALL SPOIL TO REMAIN WITHIN IMPROVEMENT AREA.
 2. INSTALL ADEQUATE FILL TO ALLOW FOR ±10' WIDE TRAIL AT 2% MAX. SLOPE TOWARDS RIVER BANK.
 3. TREE PRUNING SHALL COMPLY WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S STANDARDS.
 4. PROVIDE EROSION CONTROL, AS REQUIRED, DOWN SLOPE OF DISTURBED SOILS.
 5. SEED DISTURBED SOIL AREAS (OUTSIDE 6' TRAIL SURFACE) WITH LOAM & SEED PER PROJECT SPECIFICATIONS.

3 TYPICAL TRAIL SECTION - AGGREGATE FILL LEVELING IMPROVEMENT AREA
SCALE: N.T.S.

Revisions:

No.	Date	Description

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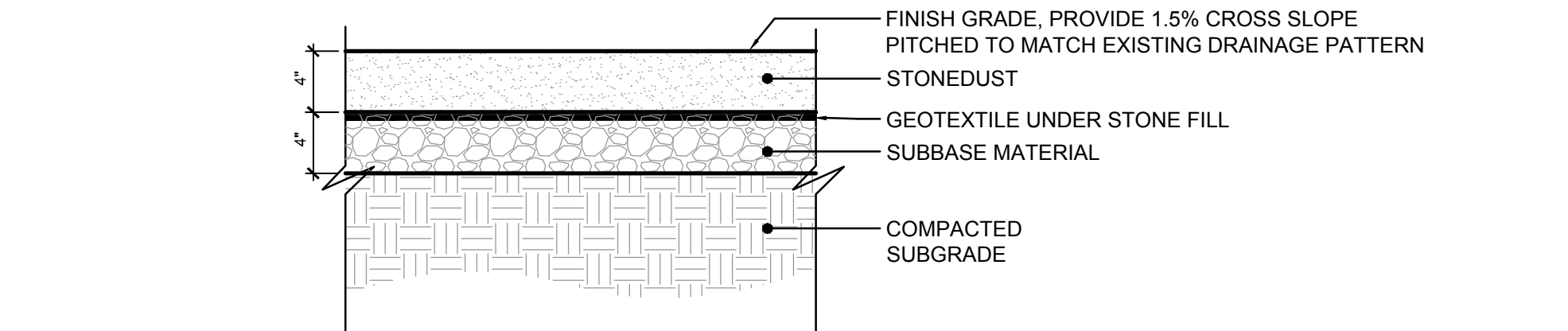


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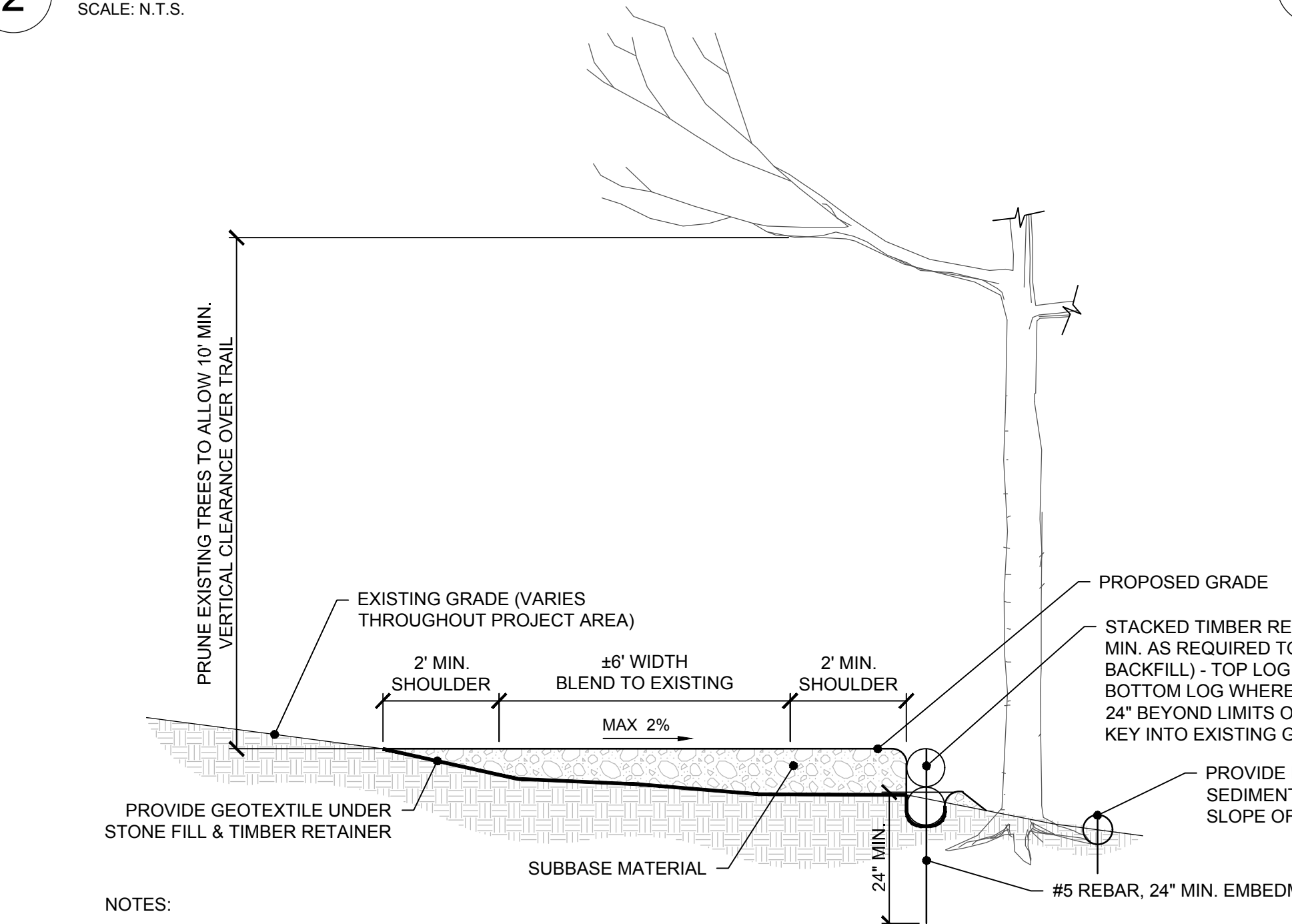
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Drawn By: JWG.EJP
Reviewed By: DFG
Approved By: DPB
W&S Project No.: ENG22-0373
W&S File No.:

Drawing Title: TYPICAL TRAIL SECTION DETAILS
Sheet Number:

C501
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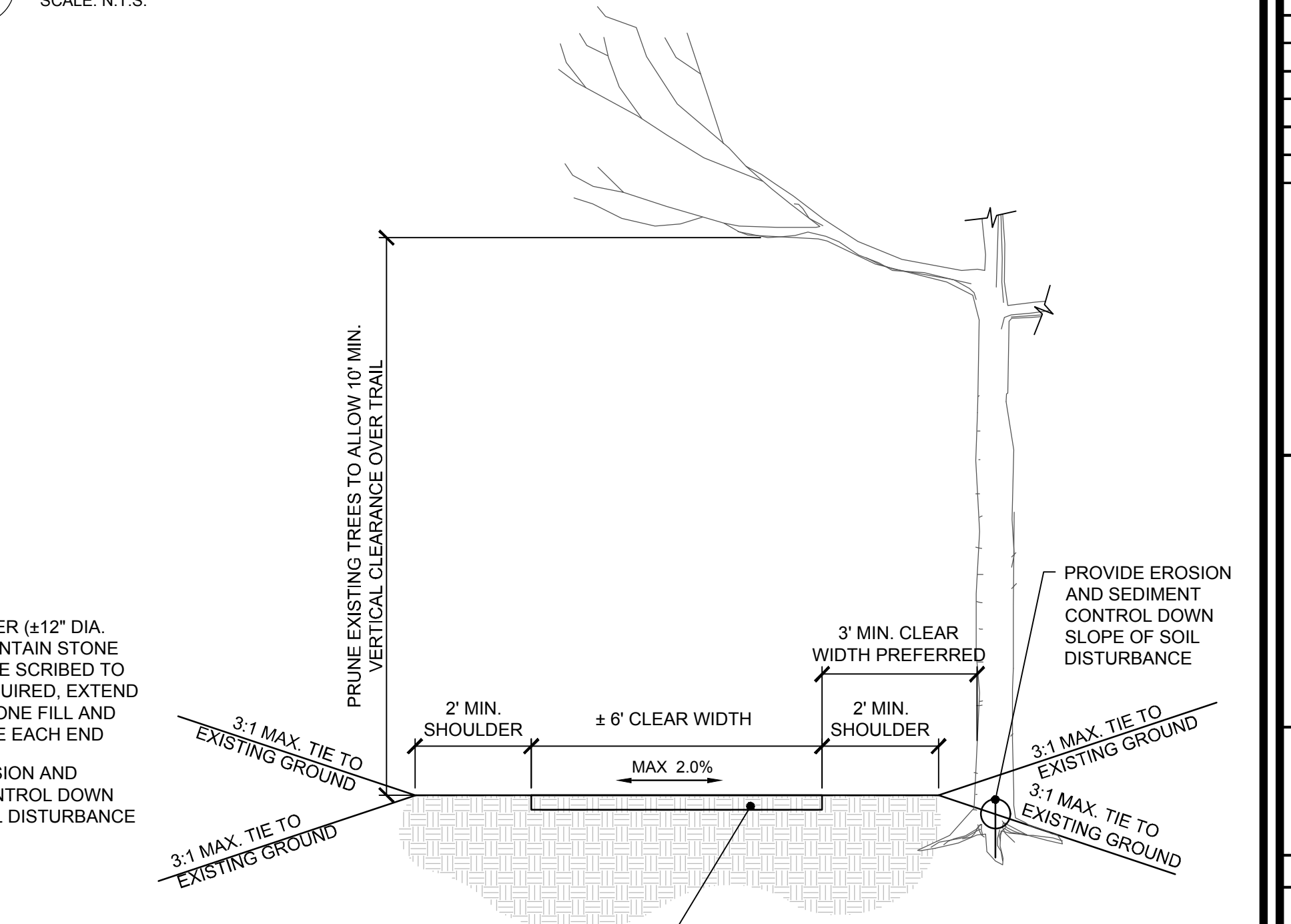


4 STONE DUST PATH (ADD. ALT.#3)
SCALE: N.T.S.



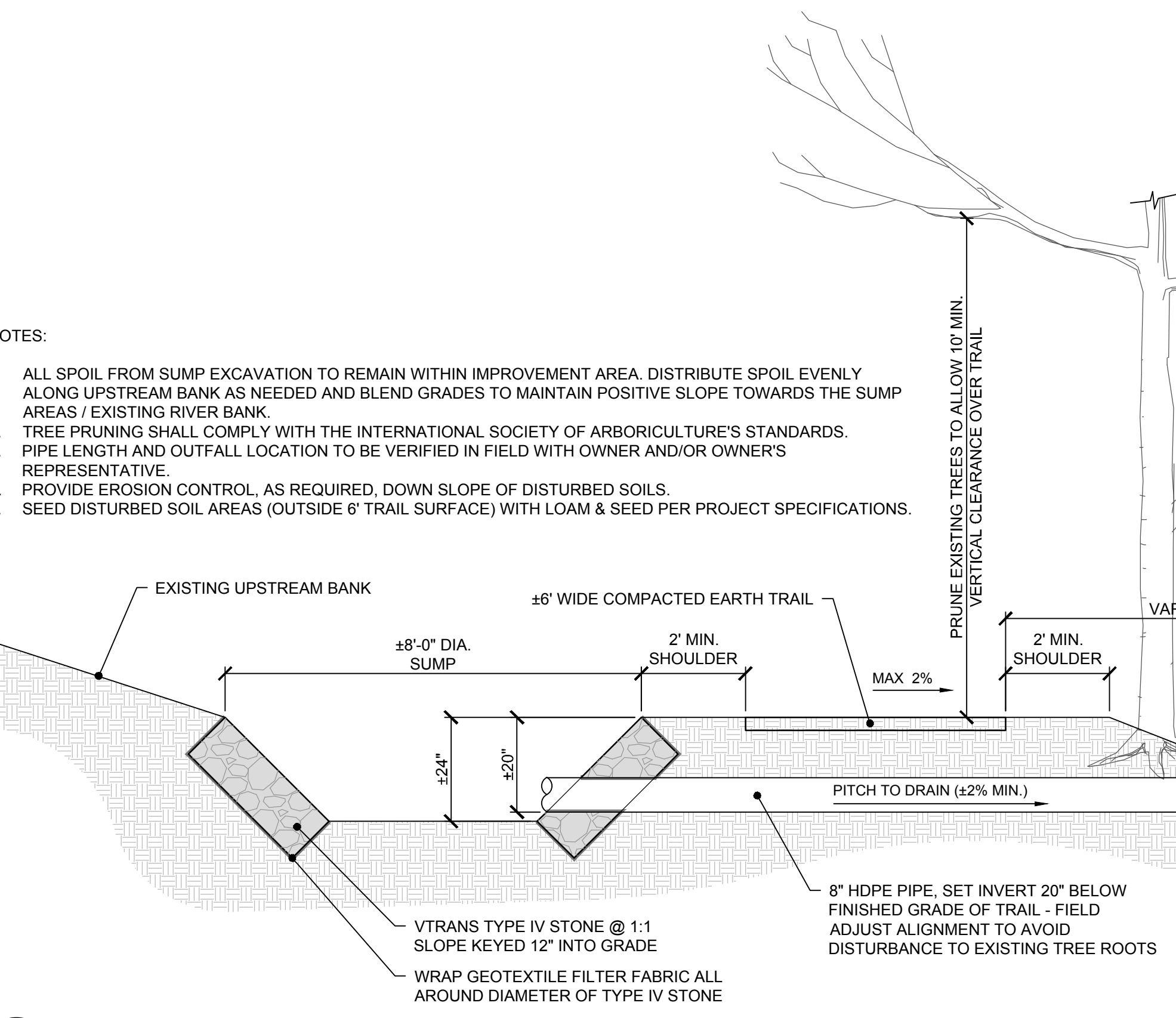
- NOTES:
1. INSTALL ADEQUATE FILL TO ALLOW FOR ±10' WIDE TRAIL AT 2% MIN. SLOPE TOWARDS RIVER BANK.
 2. BURY BOTTOM TIMBER RETAINER 4" MIN. BELOW GRADE.
 3. TREE PRUNING SHALL COMPLY WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S STANDARDS.
 4. PROVIDE EROSION CONTROL, AS REQUIRED, DOWN SLOPE OF DISTURBED SOILS.
 5. SEED DISTURBED SOIL AREAS (OUTSIDE 6' TRAIL SURFACE) WITH LOAM & SEED PER PROJECT SPECIFICATIONS.

6 TYPICAL TRAIL SECTION - TIMBER RETAINER DRAINAGE IMPROVEMENT AREA
SCALE: N.T.S.



- NOTES:
1. CLEAR AND GRUB TRAIL AREA TO PROVIDE ±10' TRAIL AREA WITH 2% MAX CROSS SLOPE - MATCH EXISTING DRAINAGE PATTERNS.
 2. TREE PRUNING SHALL COMPLY WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S STANDARDS.
 3. PROVIDE EROSION CONTROL, AS REQUIRED, DOWN SLOPE OF DISTURBED SOILS.
 4. SEED DISTURBED SOIL AREAS (OUTSIDE 6' TRAIL SURFACE) WITH LOAM & SEED PER PROJECT SPECIFICATIONS.

7 TYPICAL TRAIL SECTION - NEW TRAIL CONSTRUCTION
SCALE: N.T.S.



5 TYPICAL TRAIL SECTION - CULVERT DRAINAGE IMPROVEMENT AREA
SCALE: N.T.S.

SEE ATTACHMENT A - STD_961-20-01 THRU -06.
(INFORMATION PROVIDED BY U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE - STANDARD TRAIL PLAN. NOT DEVELOPED BY WESTON & SAMPSON ENGINEERS.)

8 TIMBER BRIDGE CONSTRUCTION
SCALE: N.T.S.

SEE ATTACHMENT B - STD_938-10-01 THRU -03.
(INFORMATION PROVIDED BY U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE - STANDARD TRAIL PLAN. NOT DEVELOPED BY WESTON & SAMPSON ENGINEERS.)

9 TIMBER BOARDWALK CONSTRUCTION
SCALE: N.T.S.

SEE ATTACHMENT C - STD_936-20-02.
(INFORMATION PROVIDED BY U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE - STANDARD TRAIL PLAN. NOT DEVELOPED BY WESTON & SAMPSON ENGINEERS.)

10 TIMBER STEP CONSTRUCTION
SCALE: N.T.S.

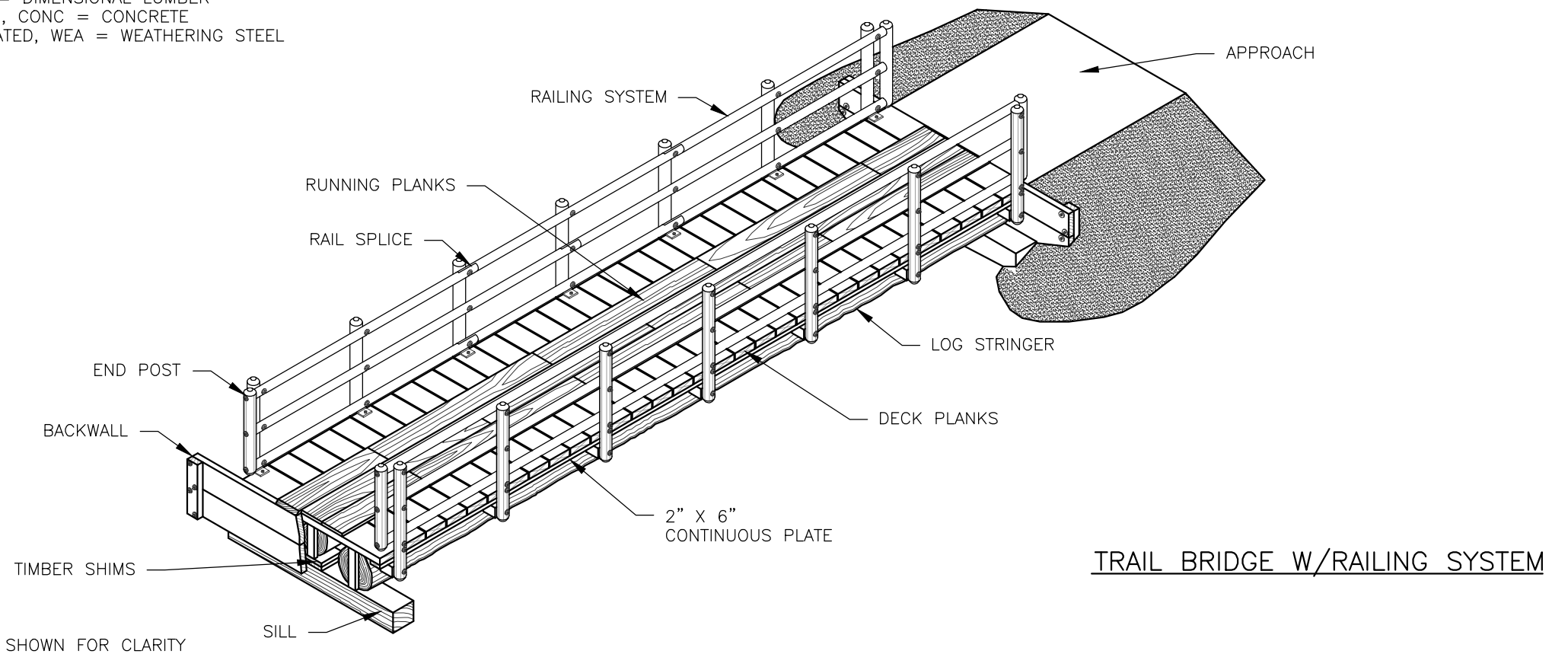
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STRUCTURE NUMBER	TRAIL NO.	BRIDGE LOCATION	BRIDGE LENGTH OUT-TO-OUT	STRINGER SPAN CL-CL BRNG	BRIDGE CLEAR WIDTH	PEDESTRIAN LOAD	GROUND SNOW LOAD	STRINGERS				DECK			BACKWALL						
								SPECIES	NUMBER	MATERIAL SIZE (DIAMETER)	TREATMENT		SPECIES	SIZE	TREATMENT	TYPE	SPECIES	SIZE	WIDTH	DEPTH	TREATMENT
											YES	NO									

NA = NOT APPLICABLE, BACKWALL TYPE: ST= STONE, W= WOOD

STRUCTURE NUMBER	RAILING SYSTEM/CURB					RUNNING PLANK				SILL			APPROACHES					HARDWARE		COMMENTS			
	SPECIES	TYPE	HEIGHT	MATERIAL TYPE	TREATMENT		SPECIES	SIZE	WIDTH	TREATMENT		TYPE	SIZE	TREATMENT	LENGTH		WIDTH	MATERIAL TYPE	MATERIAL DEPTH		GEO- SYNTHETIC TYPE	COATING	
					YES	NO				YES	NO				NEAR	FAR							

RAILING SYSTEM/CURB MATERIAL TYPE: R = ROUND LOG, D = DIMENSIONAL LUMBER
 ABUTMENT MATERIAL TYPE: SS = SOLID SAWN, GLU = GLULAM, CONC = CONCRETE
 HARDWARE COATING TYPE: GALV = GALVANIZED, UNC = UNCOATED, WEA = WEATHERING STEEL



APPROACH NOT SHOWN FOR CLARITY

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE
STANDARD TRAIL PLAN

PROJECT NAME & LOCATION
ATTACHMENT 'A'
HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT
WILMINGTON, VT

DRAWING NAME
MULTIPLE LOG STRINGER TRAIL BRIDGE
 SECTION
961 - LOG STRINGER TRAIL BRIDGE
 TYPICAL ID
MLS

REVISION DATE
NOT TO SCALE

DRAWING NO.
STD_961-20-01
 SHEET
 OF

GENERAL NOTES:

SPECIFICATIONS: MATERIALS AND CONSTRUCTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03) AND STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FEDERAL PROJECTS,

LOG MEMBERS: LOGS USED FOR STRINGERS SHALL BE DOUGLAS FIR OR WESTERN LARCH WITH MINIMUM, PEELED, MID-SPAN LOG DIAMETER AS NOTED FOR THE VARIOUS SPANS AND DESIGN LOADING. NATIVE TREES TO BE USED FOR BRIDGE STRINGERS SHALL BE STRAIGHT, SOUND, AND FREE OF DEFECTS AND ROT. STRINGERS SHALL BE CHOSEN FROM TREES WITH RELATIVELY FEW LIMBS, AND HAVE NO KNOT GREATER THAN 3-INCH IN DIAMETER. LOGS SHALL BE DAPPED AT ENDS TO CREATE A LEVEL BEARING SURFACE AT SUPPORTS TAKING CARE TO AVOID OVER CUTTING. HEWN UPPER SURFACE OF LOGS TO PROVIDE A LEVEL TREAD SURFACE REFER TO PLANS FOR HEWN DETAILS.

TIMBER & LUMBER: SOLID SAWN TIMBER MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF THE GRADING RULES AGENCY FOR THE SPECIES, TYPE, AND GRADE SPECIFIED BELOW.

DECK PLANKS, SILLS, AND BACKING PLANKS

- SOUTHERN PINE NO.2 GRADE, GRADING RULES AGENCY – SPIB

RUNNING PLANKS

- SOUTHERN PINE NO.2 GRADING RULES AGENCY – SPIB

RAILS & POSTS (SEE PROJECT CRITERIA)

SAWN – UNTREATED

- BALDCYPRESS, S4S, NO.1 GRADE GRADING RULES AGENCY – SPIB
- WHITE OAK, S4S, SELECT STRUCTURAL GRADE GRADING RULES AGENCY – NELMA

SAWN – TREATED

- SOUTHERN PINE, S4S, NO. 2 GRADE GRADING RULES AGENCY – SPIB

POLES

- SOUTHERN PINE, PEELED AND DRIED. GRADING RULES AGENCY – SPIB

TREATMENT: SEE PROJECT CRITERIA FOR MEMBERS IDENTIFIED TO BE TREATED AND FOR TREATMENT TYPE. PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) SPECIFICATIONS USING THE TREATMENT MATERIALS LISTED BELOW. TREATMENT WILL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF WESTERN WOOD PRESERVERS INSTITUTE (WWPI) "BEST MANAGEMENT PRACTICES FOR THE USE OF TREATED WOOD IN AQUATIC ENVIRONMENTS".

STRINGERS, DECKING, RUNNING PLANKS, & RAILING SYSTEM, IF TREATED

- AWPA USE CATEGORY SYSTEM (U1) FOR USE CATEGORY 3B ABOVE GROUND-EXPOSED (UC3B)
- PENTACHLOROPHENOL IN LIGHT OIL (TYPE C SOLVENT)
- COPPER NAPHTHENATE (CuN) IN LIGHT OIL (TYPE C SOLVENT)

SILLS, BACKING PLANKS, CRIBS, & TIMBER WALLS, IF TREATED

- AWPA USE CATEGORY SYSTEM (U1) FOR USE CATEGORY 4B GROUND CONTACT-HEAVY DUTY (UC4B)
- PENTACHLOROPHENOL IN HEAVY OIL (TYPE A SOLVENT)
- COPPER NAPHTHENATE (CuN) IN HEAVY OIL (TYPE A SOLVENT)

FIELD TREATMENT: COPPER NAPHTHENATE (2% SOLUTION) SHALL BE FURNISHED FOR FIELD TREATING OF WOOD. ALL ABRASIONS AND FIELD CUTS – APPROVED BY THE C.O.R. – SHALL BE CAREFULLY TRIMMED AND GIVEN THREE BRUSH COATS OF THE FIELD TREATMENT SOLUTION. WHERE APPROVED, FIELD DRILLING OF BOLT, SCREW OR NAIL HOLES IS REQUIRED. THE HOLES SHALL BE FILLED WITH PRESERVATIVE PRIOR TO INSERTING THE FASTENERS.

THE ENDS OF UNTREATED LOG STRINGERS (REFER TO THE PROJECT DESIGN CRITERIA), SHALL ALSO RECEIVE THREE BRUSH COATS OF THE FIELD TREATMENT PRIOR TO INSTALLATION OF THE BACKING PLANKS.

HARDWARE AND STRUCTURAL STEEL: SEE PROJECT DESIGN CRITERIA FOR STEEL HARDWARE FINISH. GALVANIZED OR UNFINISHED HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M270, GRADE 36, WITH NUTS AND BOLTS CONFORMING TO ASTM A307, GRADE A. WEATHERING STEEL AND HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M270, GRADE 50W, WITH BOLTS AND NUTS CONFORMING TO ASTM A325, TYPE 3. USE MALLEABLE IRON WASHERS AGAINST WOOD UNLESS OTHERWISE NOTED.

WHEN STRUCTURAL STEEL IS TO BE WELDED, THE WELDING PROCEDURE SHALL BE IN ACCORDANCE WITH AWS D1.1 AND SHALL BE SUITABLE FOR THE GRADE OF STEEL AND INTENDED USE OR SERVICE.

FABRICATION: SUBMIT SHOP DRAWINGS FOR ALL MANUFACTURED BRIDGE COMPONENTS (EXCEPT TIMBER RUNNING PLANKS). SHOW ALL DIMENSIONS AND FABRICATION DETAILS FOR ALL CUT OR BORED TIMBER. FIELD DRILLING OF HOLES SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED ON THE PLANS.

TREES TO BE USED FOR STRINGERS SHALL BE PEELED AND THEN HAVE AN ADDITIONAL 1/2-INCH OF THE OUTER SAPWOOD REMOVED PRIOR TO BEING USED FOR STRINGERS.

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
STANDARD TRAIL PLAN

PROJECT NAME & LOCATION
ATTACHMENT 'A'
HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT
WILMINGTON, VT

DRAWING NAME
MULTIPLE LOG STRINGER TRAIL BRIDGE

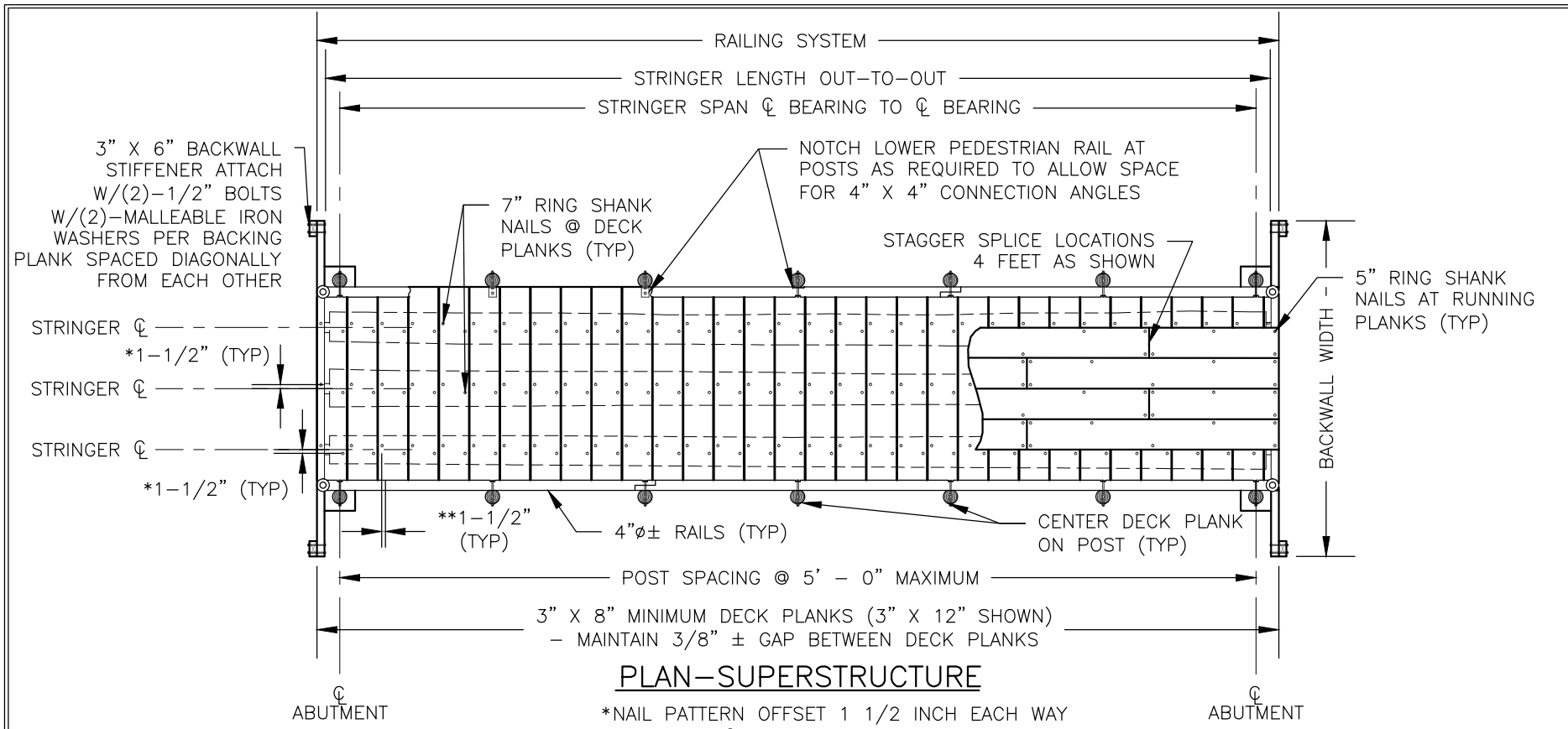
SECTION
961 - LOG STRINGER TRAIL BRIDGE

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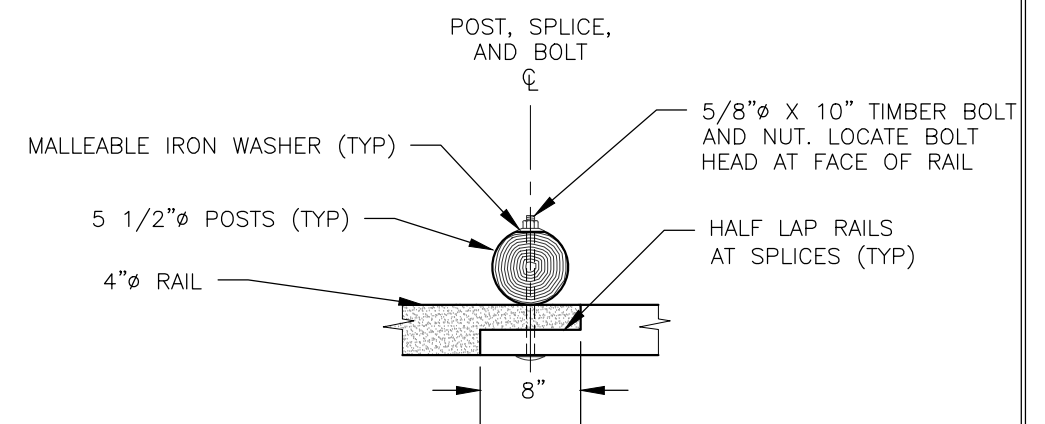
DRAWING NO.
STD_961-20-02b

SHEET
OF

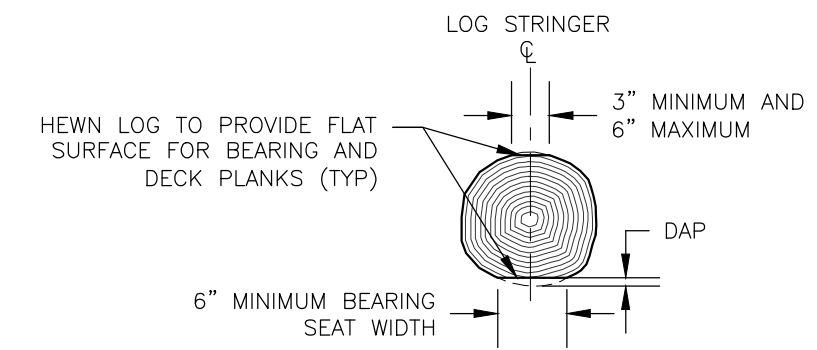


PLAN-SUPERSTRUCTURE

*NAIL PATTERN OFFSET 1 1/2 INCH EACH WAY FROM THE CL OF THE STRINGER
 **NAIL 1 1/2-INCHES FROM EDGES OF BOARD

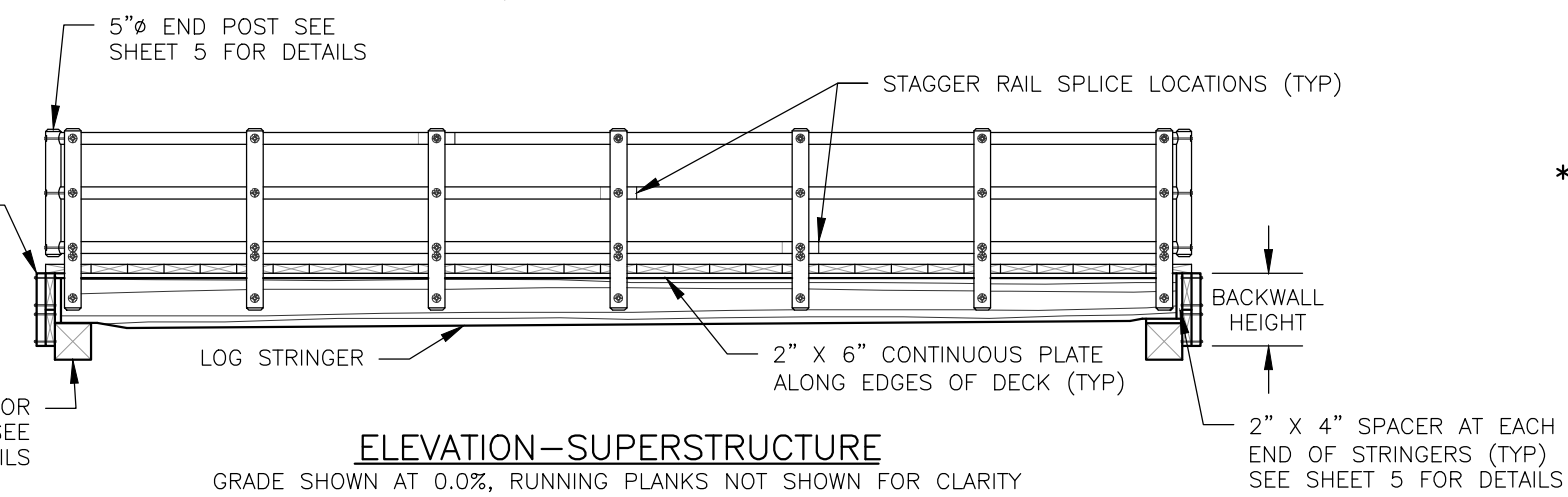


PLAN - POLE RAIL SPLICE DETAIL



LOG STRINGER DAPPING

MAXIMUM DEPTH OF DAP SHALL NOT EXCEED 10% OF LOG DIAMETER OR 2-INCH



ELEVATION-SUPERSTRUCTURE

GRADE SHOWN AT 0.0%, RUNNING PLANKS NOT SHOWN FOR CLARITY

*TABLE-1: ROUND LOG STRINGER PEELED SIZE MID SPAN DIAMETER REQUIREMENTS - LRFD

**STRINGER SPAN (FEET)	TIMBER SPECIES - SOUTHERN PINE				
	DESIGN LOADING IN POUNDS PER SQUARE FOOT				
	PEDESTRIAN LOAD ***65	90	120	150	200
10	8"	8"	8"	8"	8"
15	9"	9"	9"	9"	10"
20	11"	11"	11"	12"	12"
25	13"	13"	13"	14"	15"
30	15"	16"	15"	16"	17"
35	17"	18"	17"	18"	19"
40	19"	20"	19"	20"	21"
45	21"	22"	21"	22"	23"

*STRINGER SIZE SHALL BE THE LARGER OF THE PEDESTRIAN OR GROUND SHOW LOAD SIZE REQUIRED FOR THE SITE CONDITIONS

**STRINGER LENGTH EQUAL TO STRINGER SPAN PLUS ONE FOOT

***REQUIRES REGIONAL BRIDGE ENGINEER APPROVAL

NOTES:

1. SPLICE RAILS AT POSTS. RAILS SHALL BE CONTINUOUS FOR A MINIMUM OF TWO POST SPACES. ALTERNATE RAIL SPLICES AT POSTS.
2. FASTEN RUNNING PLANKS TO DECK WITH 40d 5-INCH LONG RING SHANK NAILS AT 24-INCH SPACING. ALTERNATE SIDES WITH TWO AT EACH END. SEE PLAN-SUPERSTRUCTURE FOR LAYOUT TYPICAL.
3. THE MINIMUM STRINGER DIAMETER FOR BRIDGES WITH PEDESTRIAN RAILINGS SHALL BE 11-INCHES. BRIDGES WITH STRINGER DIAMETERS LESS THAN 11-INCHES SHALL HAVE CURBS ONLY. SEE SHEET 4 FOR DETAILS.
4. FASTEN DECK PLANKS TO STRINGERS WITH TWO ROWS 5/16-INCH DIAMETER X 7-INCH RING SHANK NAILS PER PLANK AT EACH STRINGER. ALTERNATE SIDES.

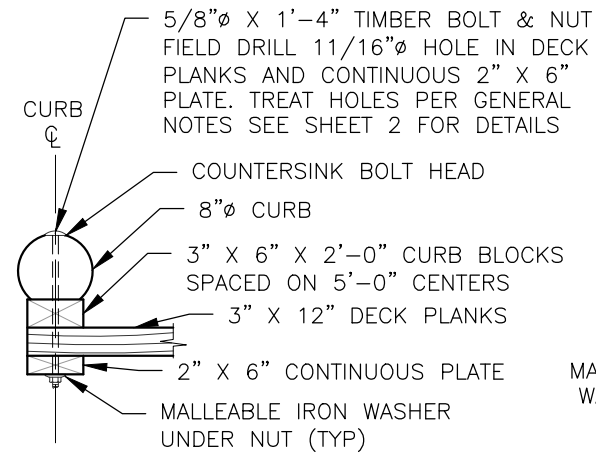
U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE
STANDARD TRAIL PLAN

PROJECT NAME & LOCATION
ATTACHMENT 'A'
HOOT, TOOT, & WHISTLE TRAIL IMPROVEMENT PROJECT
WILMINGTON, VT

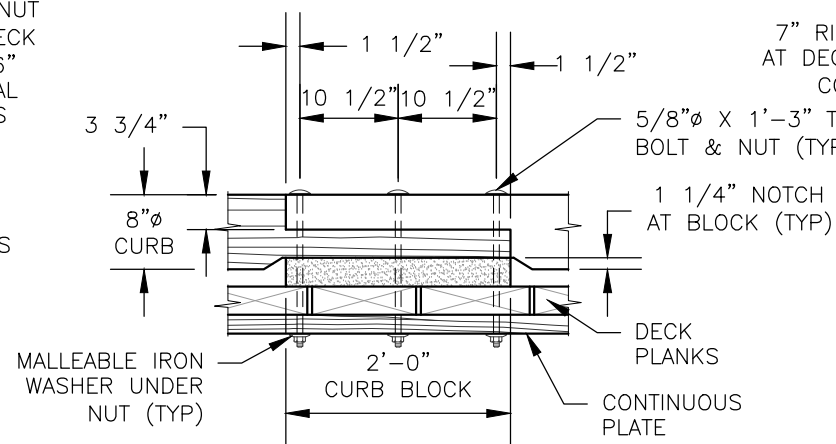
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MULTIPLE LOG STRINGER TRAIL BRIDGE
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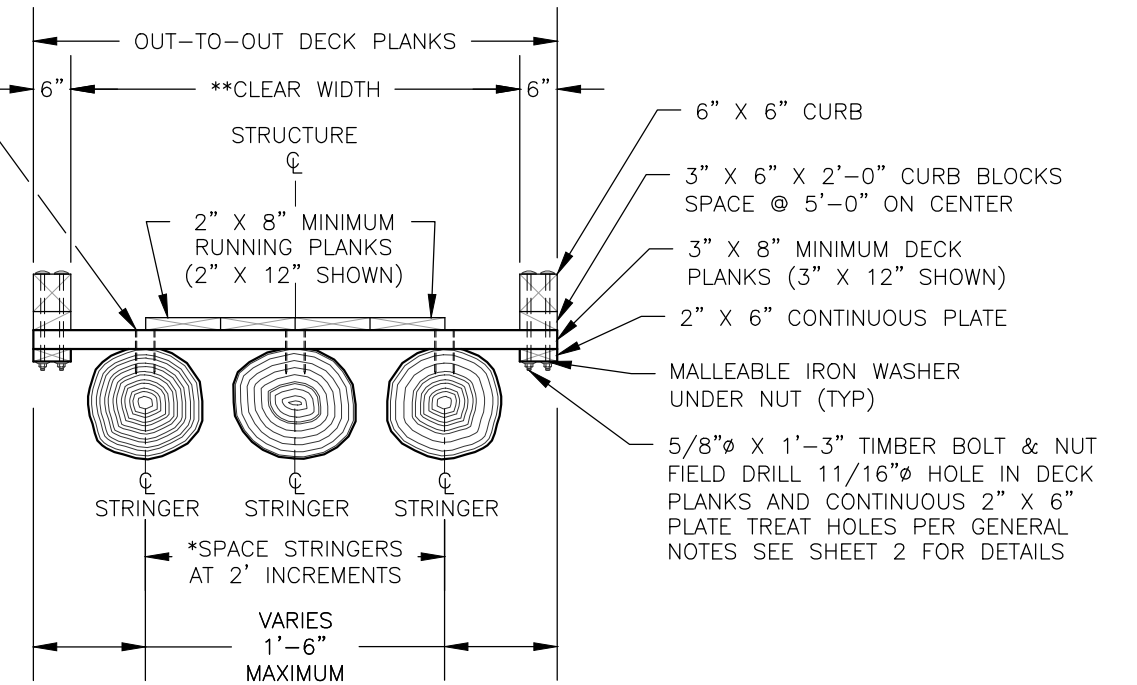
TYPICAL SECTION LOG CURB



ELEVATION CONNECTION AT CURB SPLICE

CONNECTION SIMILAR AT TYPICAL CURB BLOCK

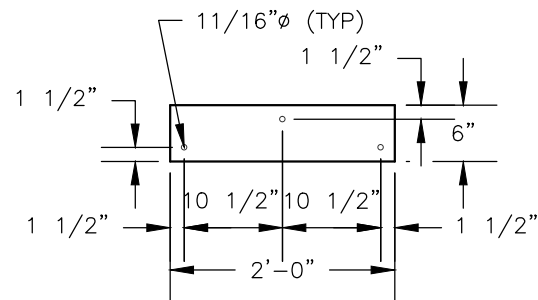
LOG CURB CONNECTION DETAILS



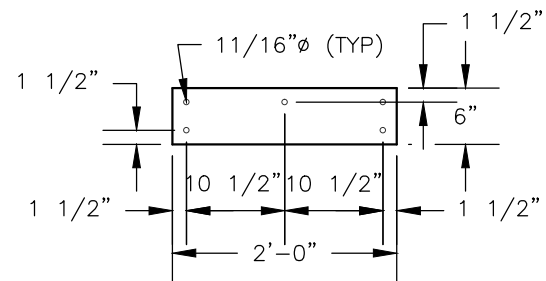
DECK SECTION W/CURBS

*MINIMUM NUMBER OF STRINGERS IS 3.

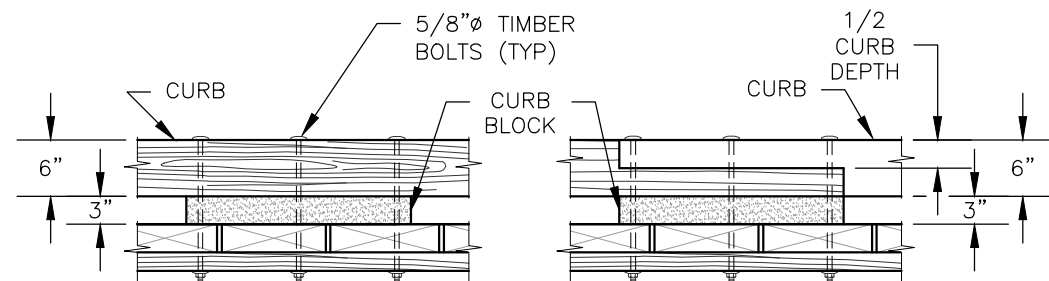
** MINIMUM CLEAR WIDTH (INSIDE FACE TO INSIDE FACE) MAY BE CONTROLLED BY STRINGER DIAMETER AND REQUIREMENTS FOR A MINIMUM OF 3 LOGS.



CURB BLOCK PLAN



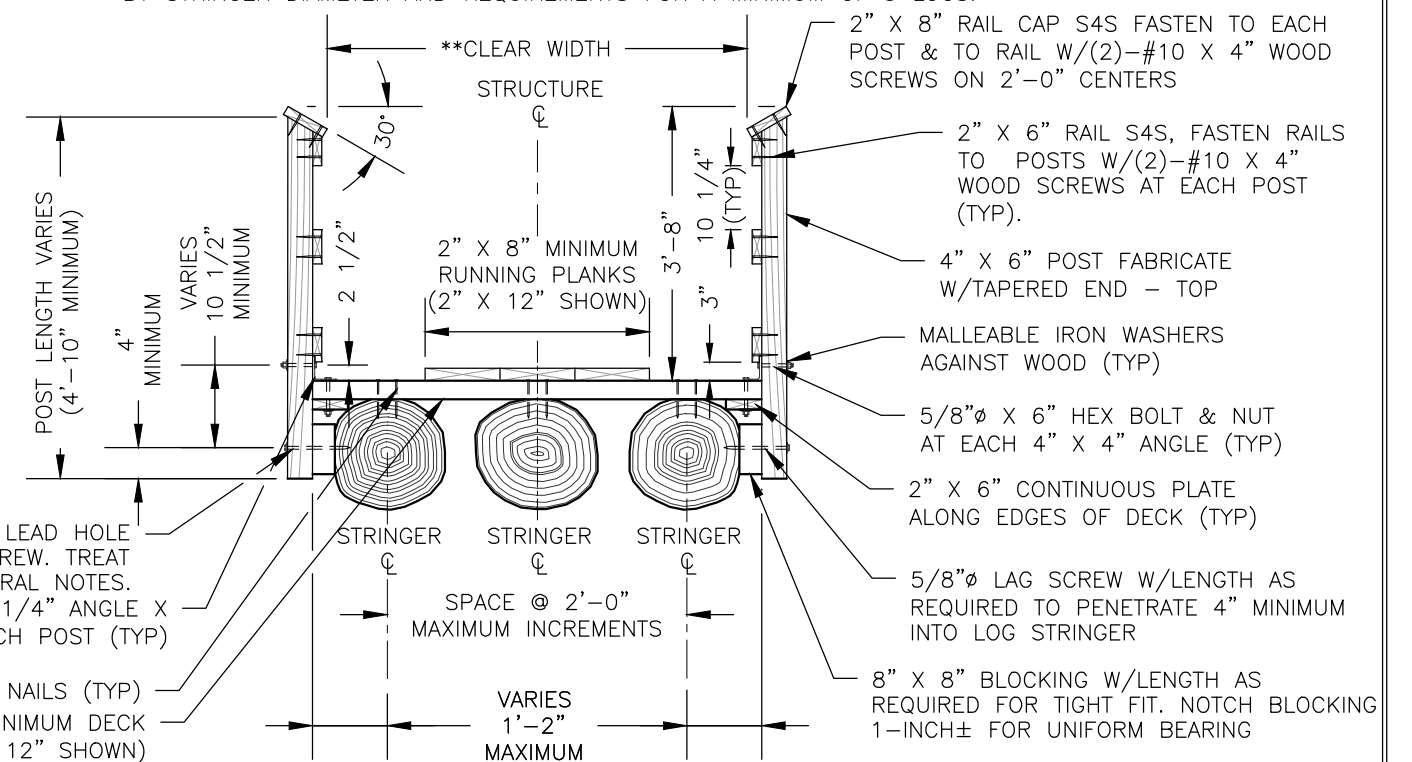
CURB BLOCK PLAN AT SPLICE



ELEVATION
TYPICAL CONNECTION

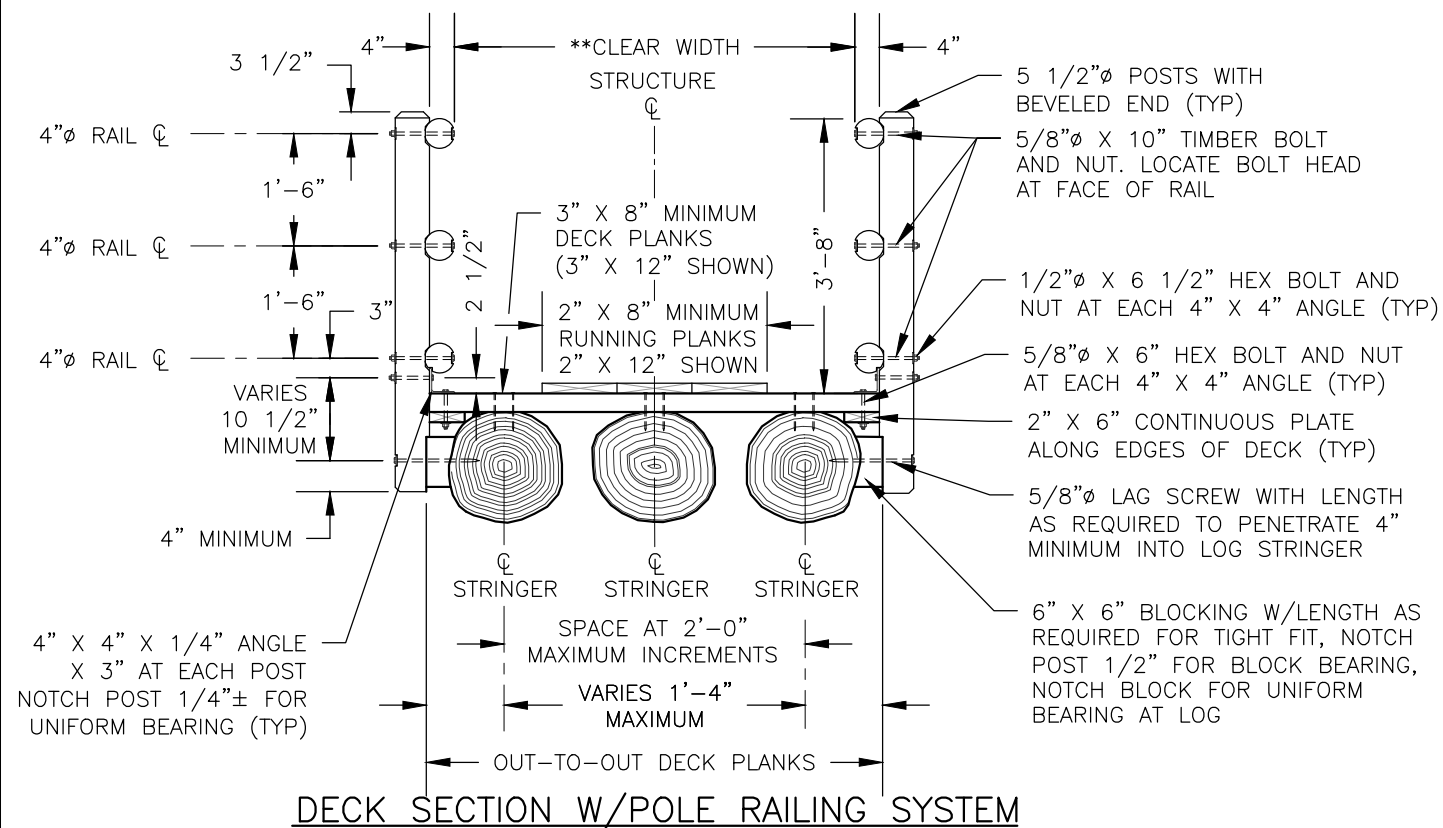
ELEVATION
CONNECTION AT SPLICE

SOLID SAWN CURB CONNECTION DETAILS



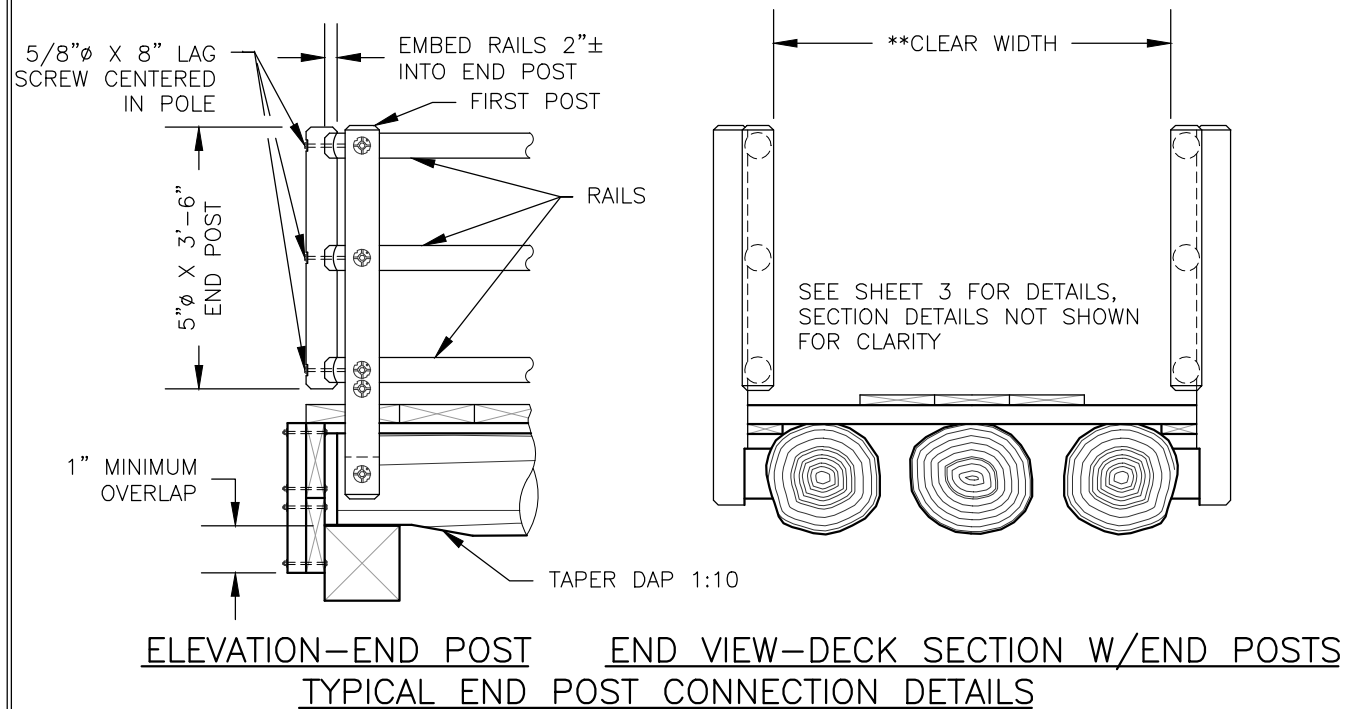
DECK SECTION W/SAWN RAILING SYSTEM

NOTCH LOWER 2" X 6" PEDESTRIAN RAILING SYSTEMS AT POST TO ALLOW SPACE FOR 4-INCH X 4-INCH CONNECTION ANGLES



DECK SECTION W/POLE RAILING SYSTEM

** MINIMUM CLEAR WIDTH (INSIDE FACE TO INSIDE FACE) IS CONTROLLED BY END POSTS REFER TO TYPICAL END POST CONNECTION DETAILS ON THIS SHEET.



ELEVATION-END POST END VIEW-DECK SECTION W/END POSTS
TYPICAL END POST CONNECTION DETAILS

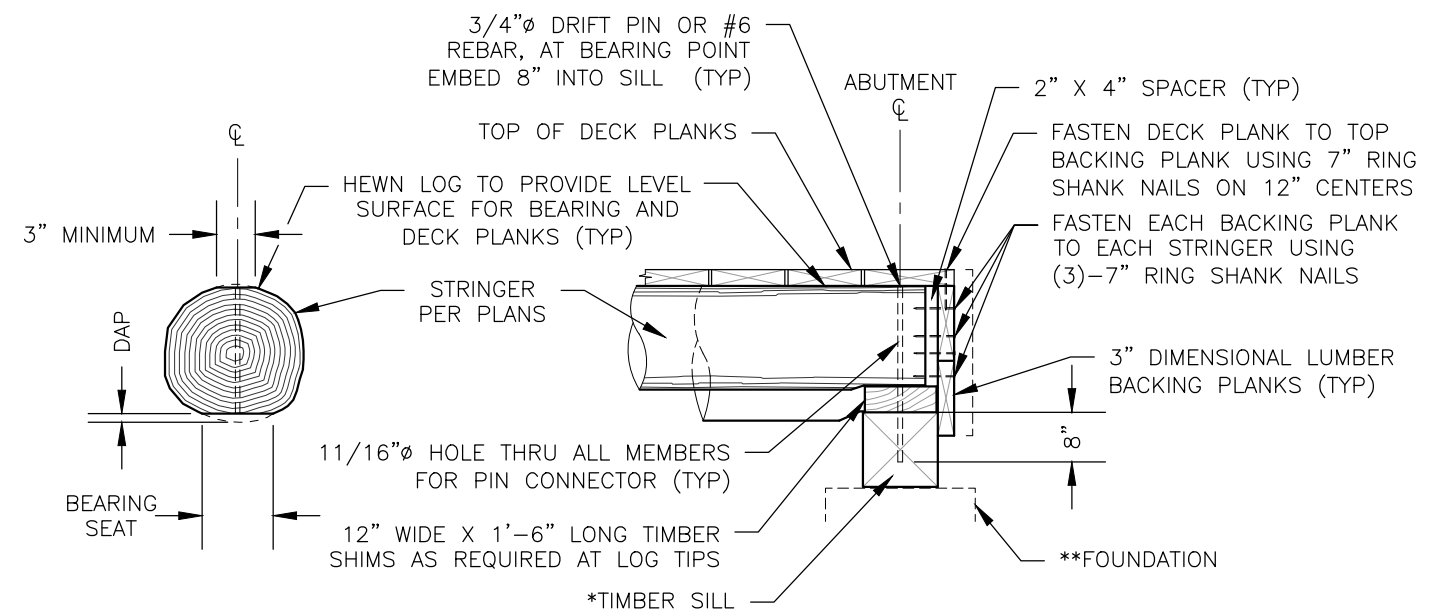
NOTES:

SPECIFICATIONS: MATERIALS AND CONSTRUCTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03) AND STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FEDERAL PROJECTS,

HARDWARE AND STRUCTURAL STEEL: SEE SUPERSTRUCTURE DRAWINGS FOR PROJECT DESIGN CRITERIA AND GENERAL NOTES.

TREATED TIMBER & LUMBER: REFER TO THE GENERAL NOTES ON THE SUBSTRUCTURE DRAWINGS FOR TREATED TIMBER & LUMBER SPECIFICATIONS AND FIELD TREATING OF WOOD.

LAG SCREW INSTALLATION: PRE-BORE LAG SCREW HOLES USING TWO DIAMETERS, ONE FOR THE SHANK AND ONE FOR THE THREADS. THE LEAD HOLE FOR THE SHANK IS TO BE 1/16-INCH LARGER THAN THE SHANK DIAMETER AND IS TO BE BORED TO THE DEPTH OF PENETRATION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION IS TO BE 70% OF THE BOLT DIAMETER AS SHOWN ON THE PLANS AND IS TO BE BORED AT LEAST TO THE LENGTH OF THE THREADS. **DO NOT DRIVE LAG SCREWS WITH A HAMMER.**



LOG STRINGER DAPPING

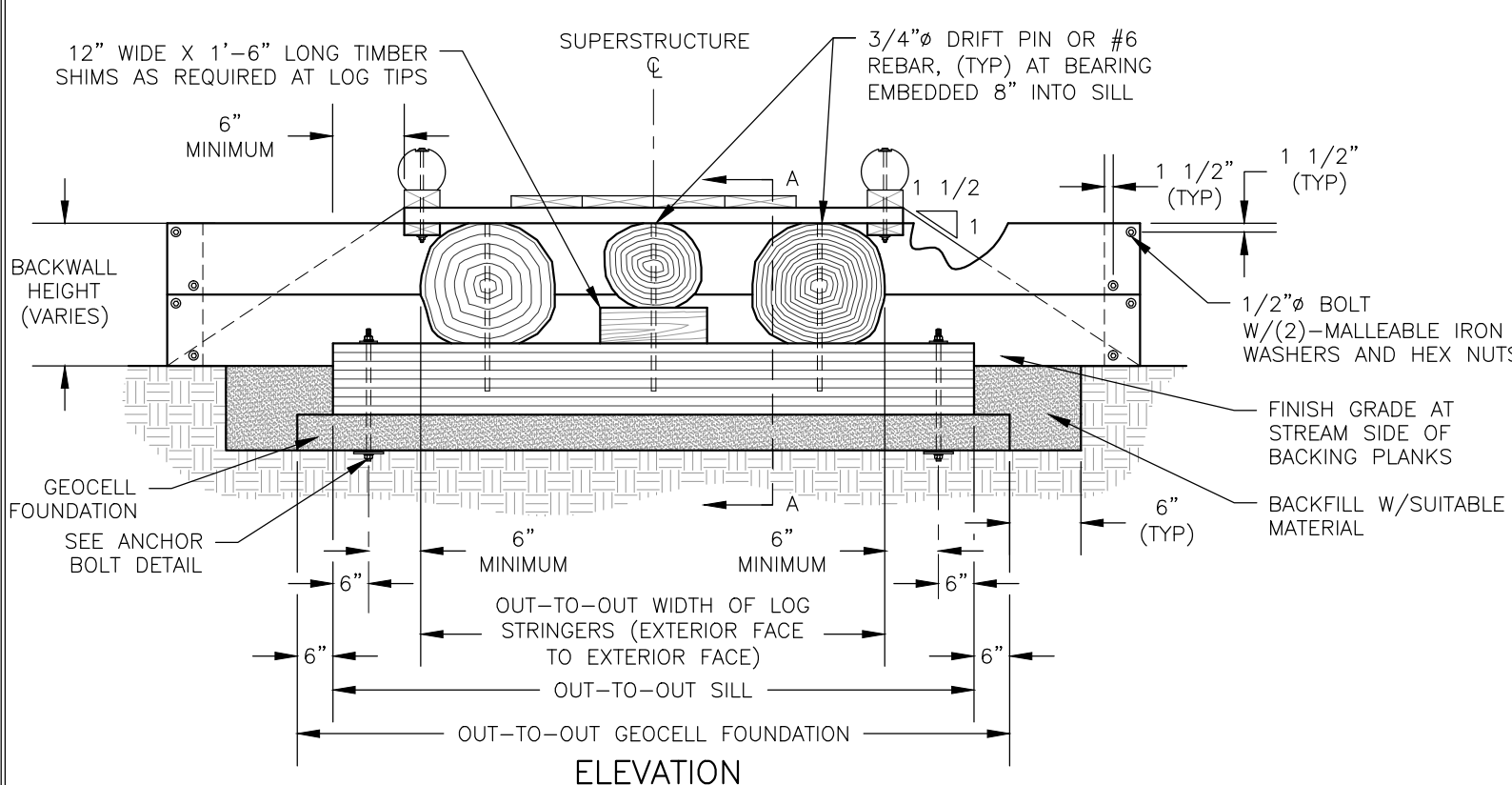
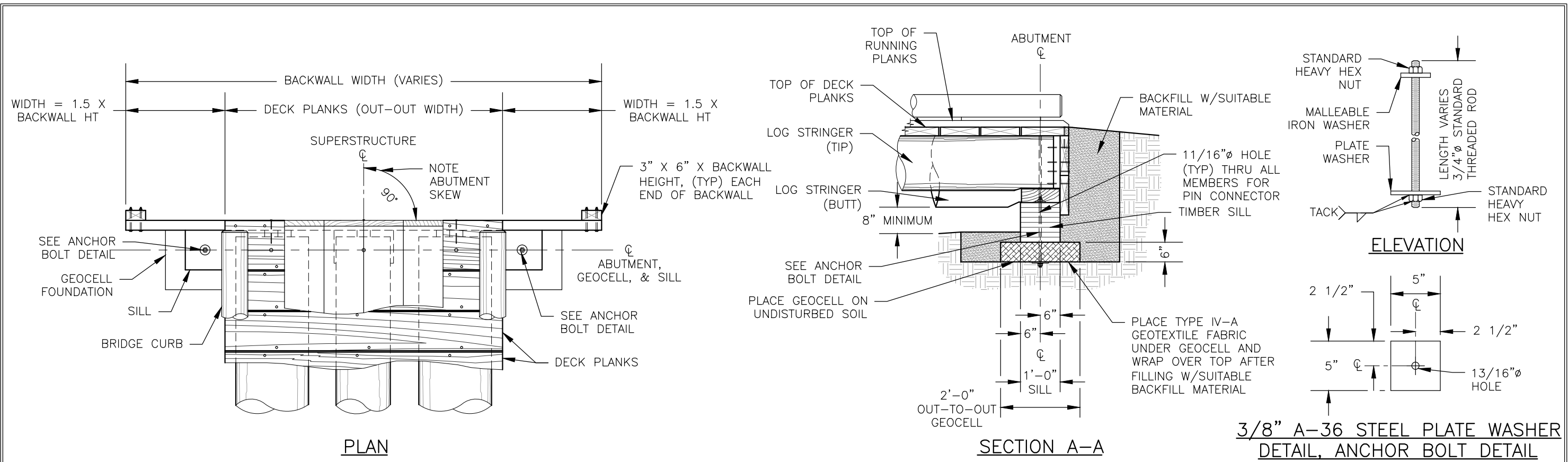
MAXIMUM DEPTH OF DAP SHALL NOT EXCEED 10 PERCENT OF LOG DIAMETER OR 2-INCHES

ELEVATION

*TIMBER SILL CAN BE EITHER 12" X 12" SOLID SAWN 10 3/4" X 12" GLUE-LAMINATED, BUILT-UP 3" X 12", 4" X 12", & 6" X 12" TREATED MEMBERS.

** SEE STANDARD DRAWINGS 965-10, 965-20, 965-30, & 965-40 FOR FOUNDATION ALTERNATIVES

LOG STRINGER BRIDGE ABUTMENT CONNECTION DETAILS



FOUNDATION NOTES:

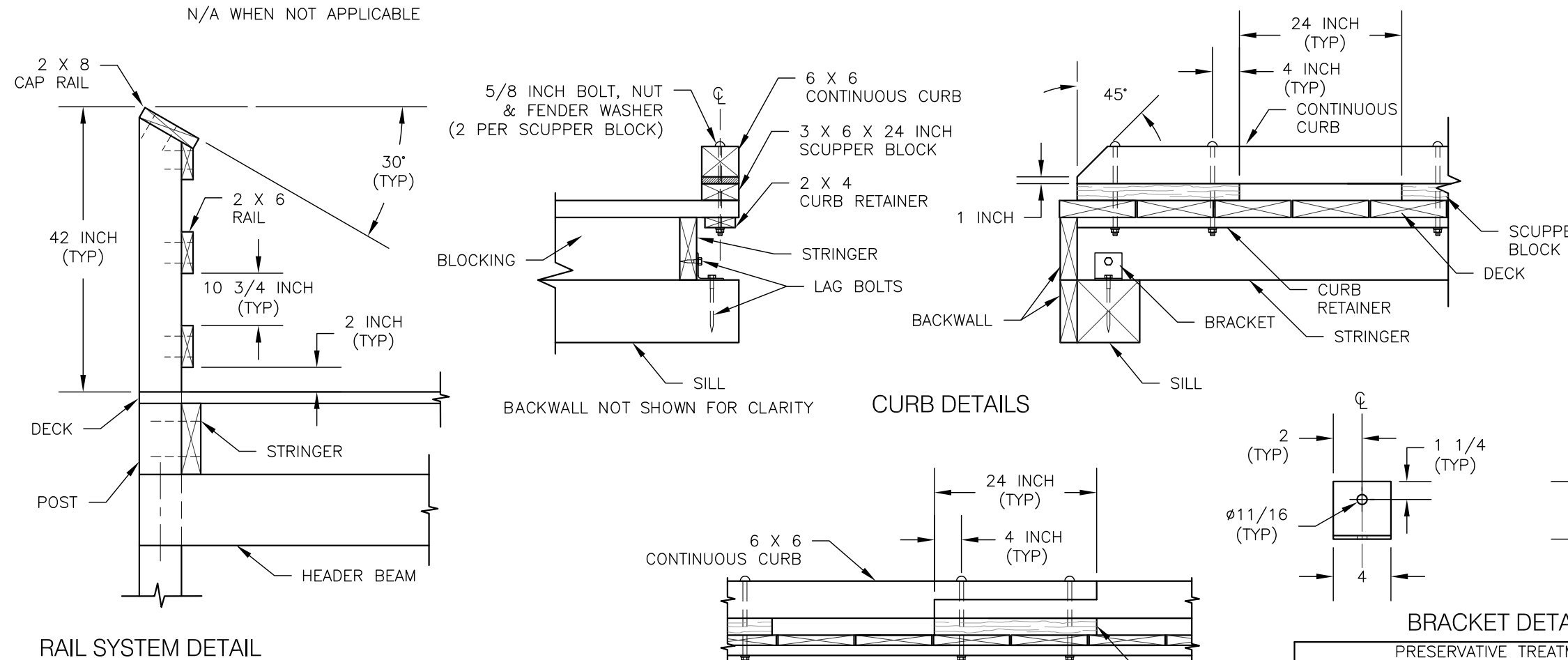
(PROJECT SPECIFIC ABUTMENT NOTES)

**3/8" A-36 STEEL PLATE WASHER
DETAIL, ANCHOR BOLT DETAIL**

STANDARD BOARDWALK

TYPICAL ID	SECTION TYPE	OVERALL WIDTH	SURFACE WIDTH	FOOTING MATERIAL			POST/SILLS/BACKWALLS				HEADER BEAM/STRINGERS/DECK/CURB/RAILING SYSTEM			COMMENTS	
				TYPE	DEPTH	WIDTH	POST HEIGHT	POST EMBEDMENT DEPTH	SPECIES	PRESERV. TYPE	DECK SIZE	SPECIES	PRESERV. TYPE		
SB1-1				F							P			P	

N/A WHEN NOT APPLICABLE



- NOTES:
- DESIGN LOAD: 100 PSF PEDESTRIAN LOAD.
 - ALL MATERIAL TYPE SHALL BE DOUGLAS FIR OR SOUTHERN PINE NO. 2 OR BETTER AS SPECIFIED IN THE ABOVE TABLE.
 - ALL FASTENERS SHALL BE GALVANIZED.
 - FASTENERS:
 - DECKING: 60d 6 INCH RING SHANK NAILS OR DECK SCREWS 2 PER DECK STRINGER CONNECTION.
 - RAILING: NO. 10 X 4 INCH LONG WOOD SCREWS 2 PER RAIL POST CONNECTION.
 - STRINGERS & BACKWALLS: 40d 5 INCH LONG RING SHANK NAILS.
 - ALTERNATIVE FOR 7/8 BOLTS FOR HEADER BEAM IS BRACKET WITH AN ALLOWABLE LOAD OF 1100 LBS EACH SIDE.

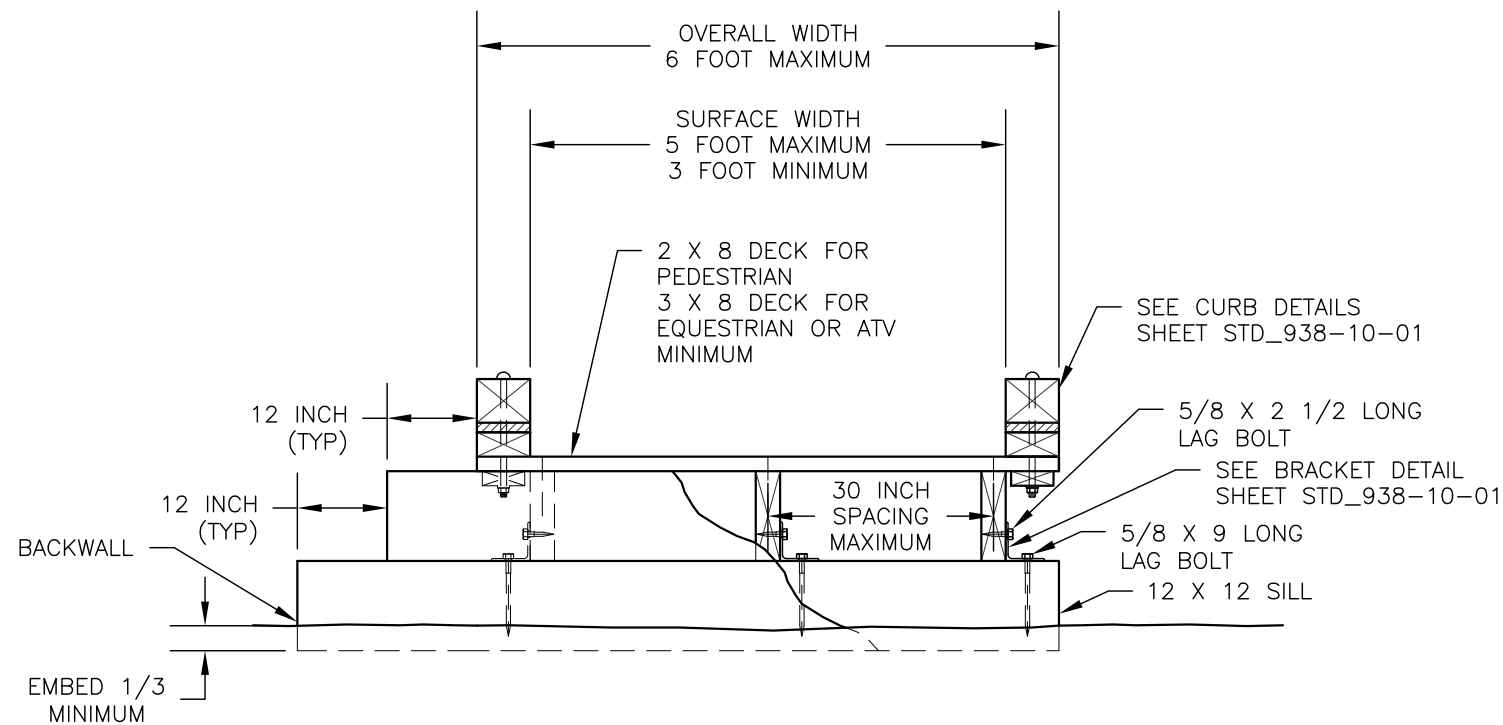
FOOTING MATERIAL

TYPE	MATERIAL	GRADATION	COMMENTS
FT1	CONCRETE		
FT2	AGGREGATE		
FT3			

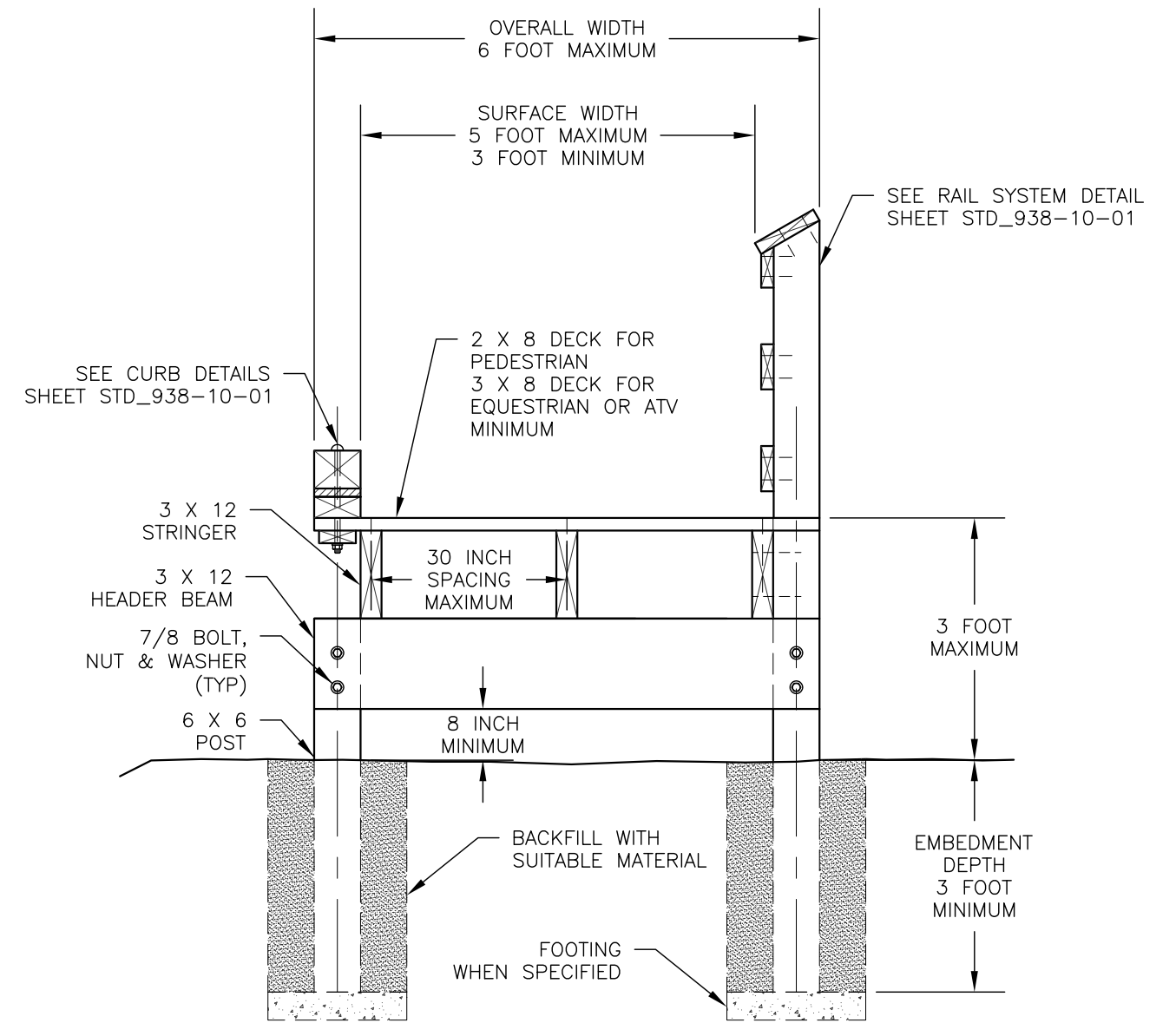
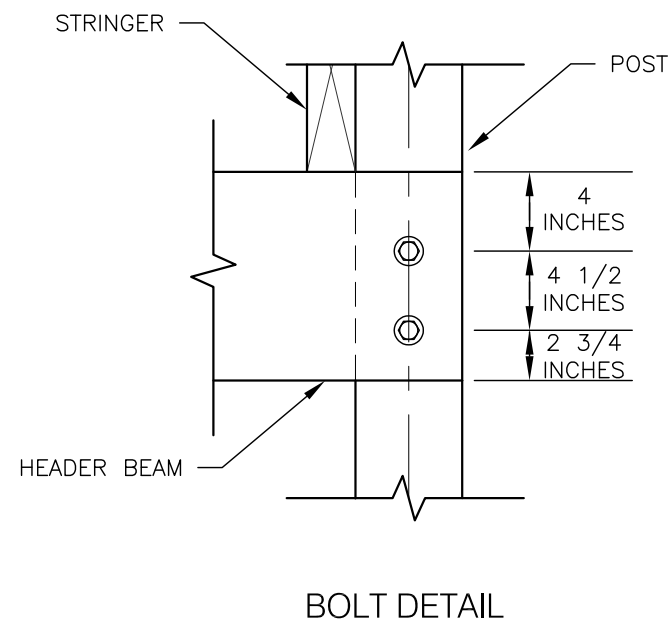
PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

TREATMENT TYPE USE CATEGORY SHEET 1 OF 3

WB = WATERBORNE UC3B = ABOVE GROUND - EXPOSED
 OT = OIL-BORNE UC4A = GROUND CONTACT - GENERAL USE
 UC4B = GROUND CONTACT - HEAVY DUTY

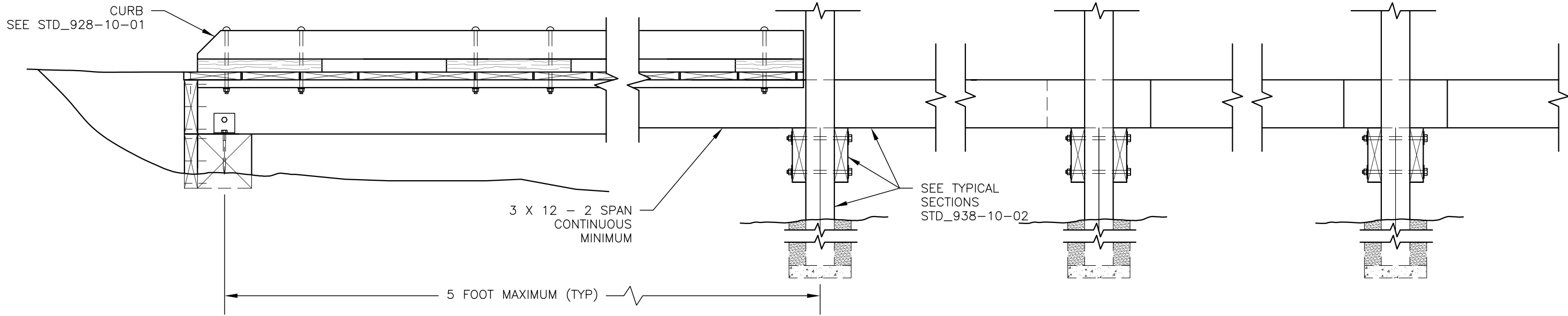


A TYPICAL GROUND SECTION
BLOCKING REQUIRED AT EVERY SUPPORT NOT SHOWN FOR CLARITY



B TYPICAL ELEVATED SECTION
LESS THAN 3 FEET WITH CURB
BLOCKING REQUIRED AT EVERY SUPPORT NOT SHOWN FOR CLARITY

C TYPICAL ELEVATED SECTION
LESS THAN 3 FEET WITH CURB
BLOCKING REQUIRED AT EVERY SUPPORT NOT SHOWN FOR CLARITY



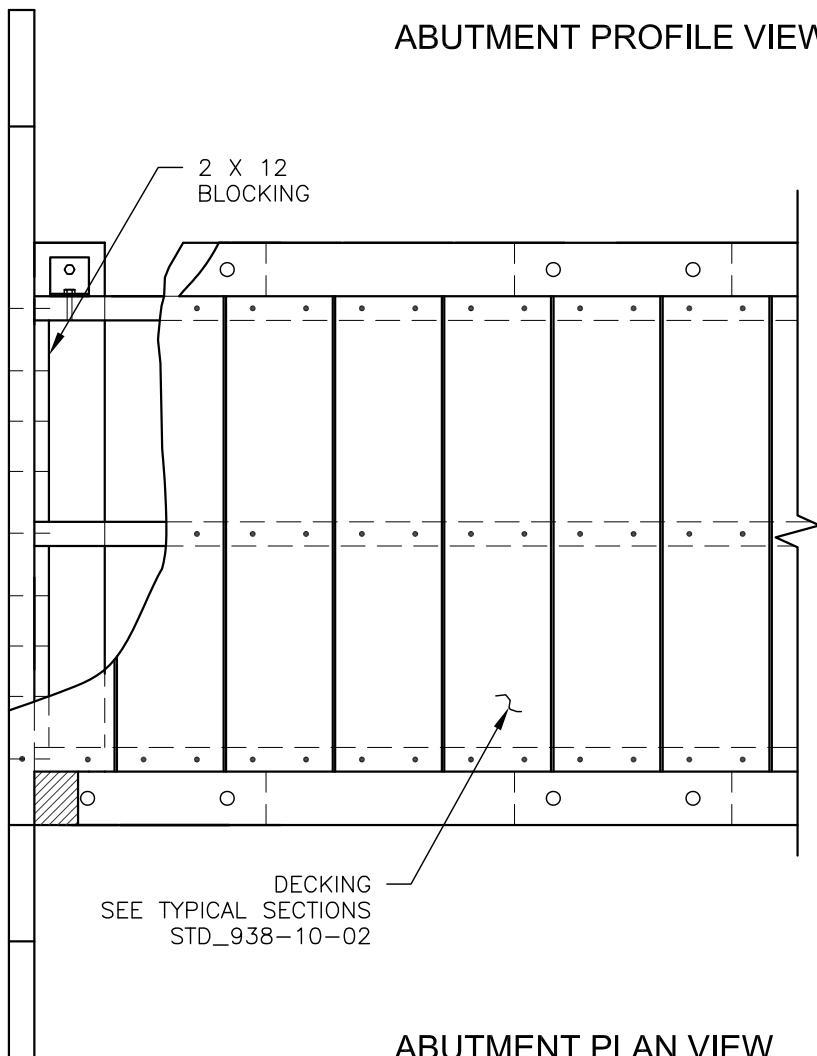
TYPICAL STRINGER
DETAIL

STRINGER LAP JOINT
DETAIL

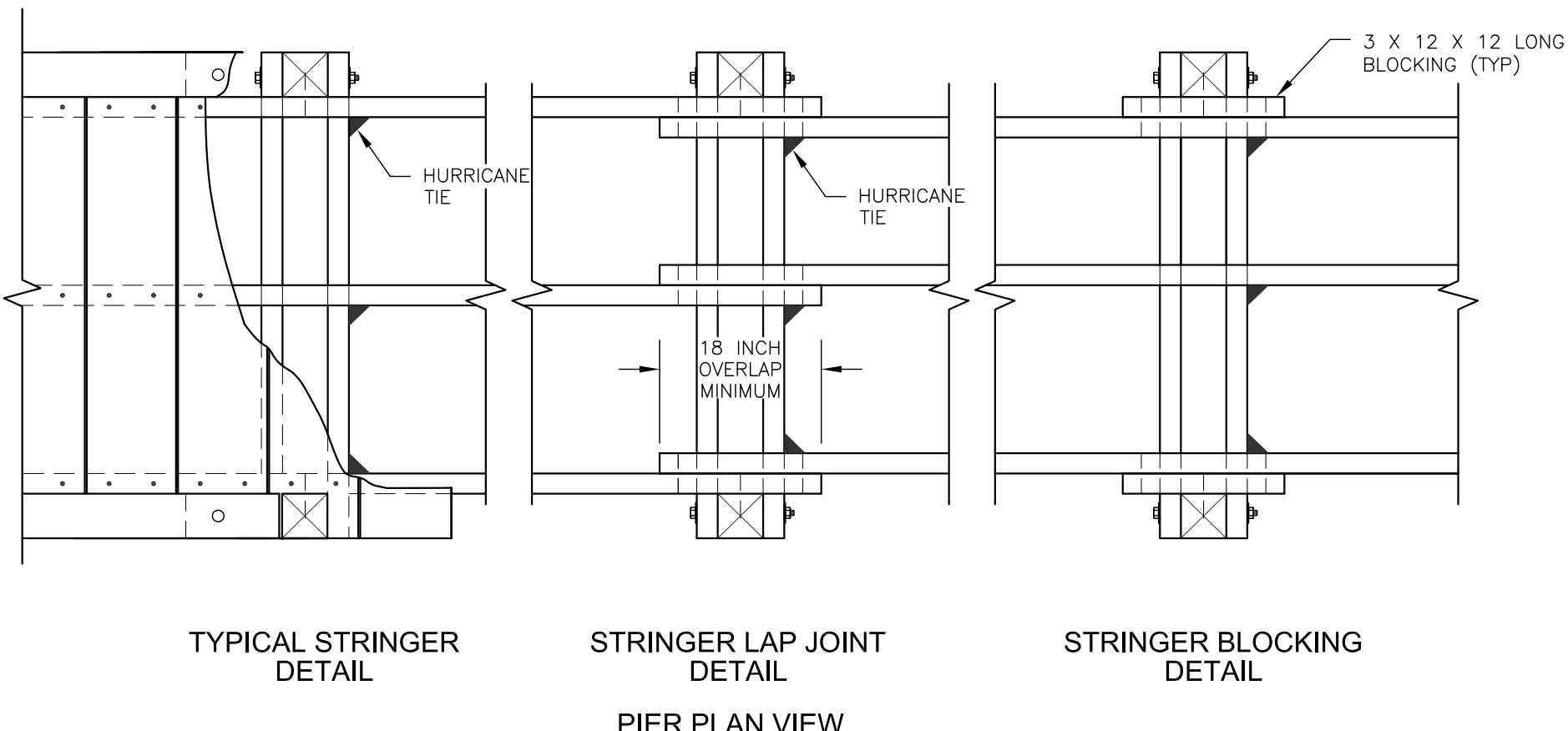
STRINGER BLOCKING
DETAIL

ABUTMENT PROFILE VIEW

PIER PROFILE VIEW
BLOCKING, CROSS BRACING, DECKING AND RAIL SYSTEM NOT SHOWN FOR CLARITY



ABUTMENT PLAN VIEW



TYPICAL STRINGER
DETAIL

STRINGER LAP JOINT
DETAIL

STRINGER BLOCKING
DETAIL

PIER PLAN VIEW

BLOCKING, CROSS BRACING, DECKING AND RAIL SYSTEM NOT SHOWN FOR CLARITY

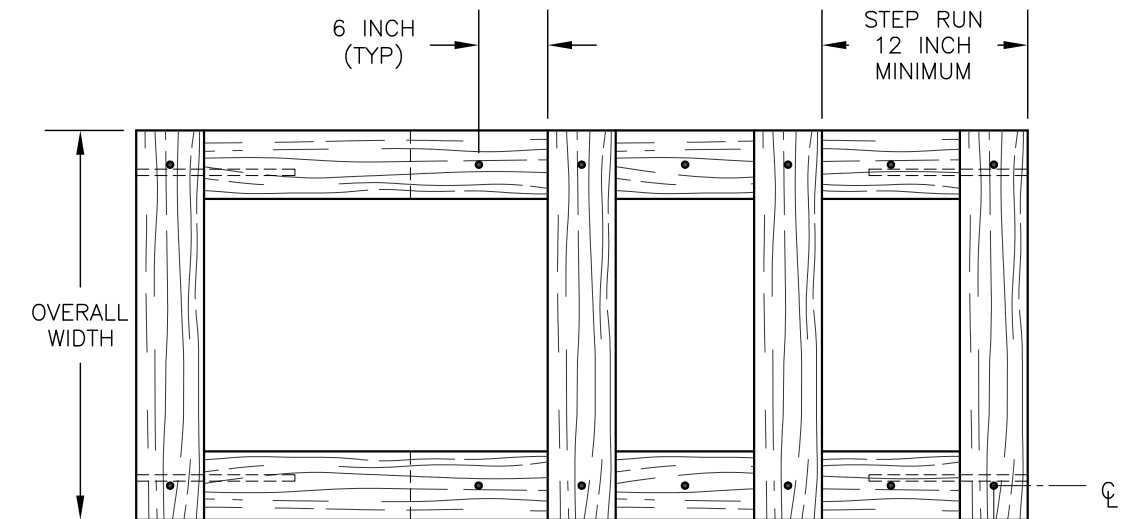
OVERLAPPING TIMBER STEP

TYPICAL ID	MATERIAL TYPE	OVERALL LENGTH	OVERALL WIDTH	STEP RUN	COMMENTS
OTS-1	M				

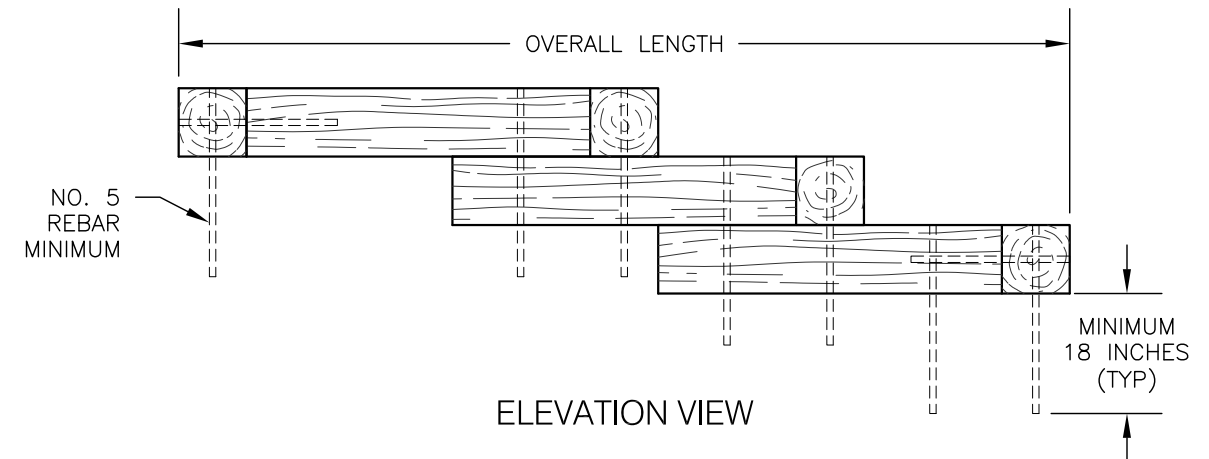
N/A WHEN NOT APPLICABLE

NOTES:

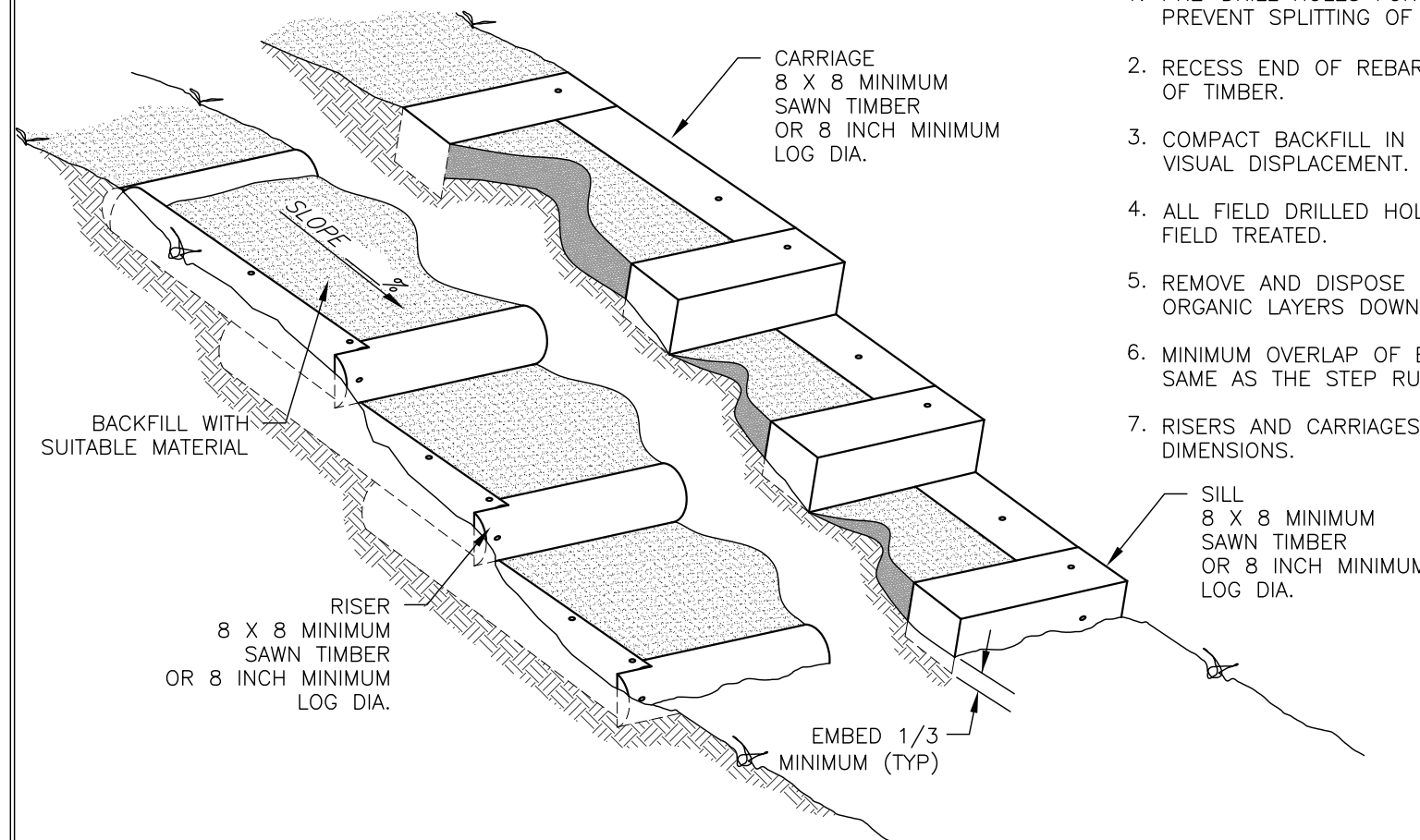
1. PRE-DRILL HOLES FOR REBAR AND PINS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF TIMBER.
3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
5. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
6. MINIMUM OVERLAP OF BOTTOM CARRIAGE IS THE SAME AS THE STEP RUN LENGTH.
7. RISERS AND CARRIAGES SHALL BE THE SAME DIMENSIONS.



PLAN VIEW



ELEVATION VIEW



MATERIAL TYPE

TYPE	MATERIAL	SIZE	SPECIES/ GRADE	PRESERV. TYPE	COMMENTS
M1	LOG				
M2	SAWN TIMBER				
M3	RAIL ROAD TIES				
M4					

PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

TREATMENT TYPE	USE CATEGORY
WB = WATERBORNE OT = OIL-BORNE	UC3B = ABOVE GROUND - EXPOSED UC4A = GROUND CONTACT - GENERAL USE UC4B = GROUND CONTACT - HEAVY DUTY