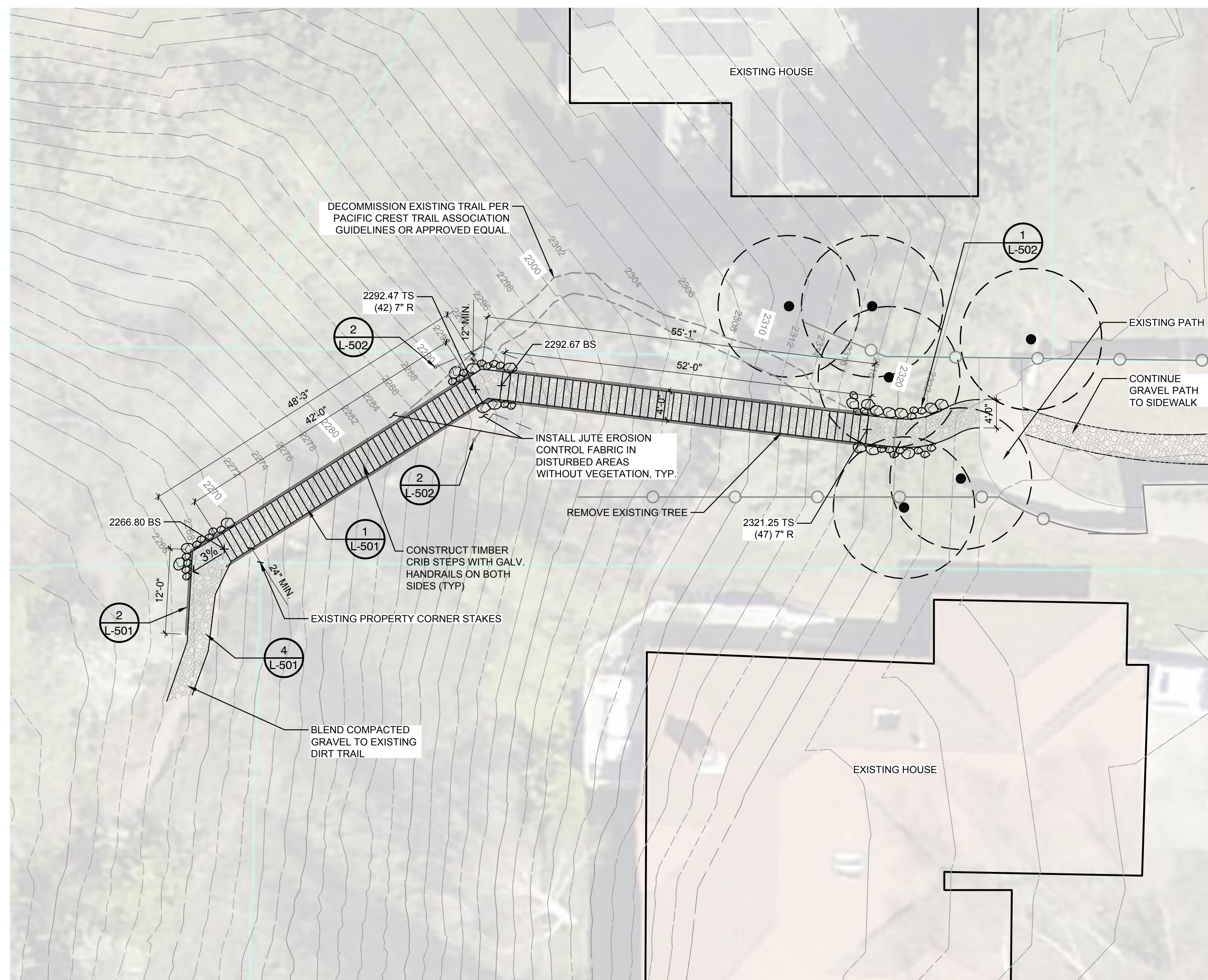




VICINITY MAP



LANDSCAPE SITE PLAN

SYMBOL LEGEND

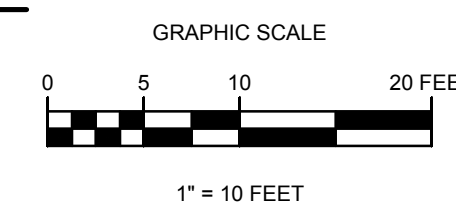
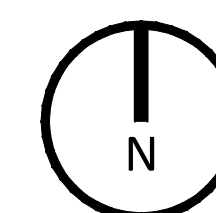
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING STRUCTURE
- EXISTING FENCE
- TREE TO REMAIN UNLESS OTHERWISE NOTED
- PROPOSED COMPACTED GRAVEL PATHWAY

SHEET INDEX

- L-000 LANDSCAPE PLAN - OVERALL
- L-001 LANDSCAPE SPECIFICATIONS
- L-501 LANDSCAPE DETAILS
- L-502 LANDSCAPE DETAILS

GENERAL LANDSCAPE NOTES

1. PROPERTY LINES INDICATED WERE ESTABLISHED FROM AERIAL PHOTOGRAPHY AND MAY NOT BE ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND MAKE ANY REQUIRED ADJUSTMENTS. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR INSTRUCTIONS.
2. PRIOR TO LANDSCAPE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY SITE CONDITIONS MATCH THE APPROVED LANDSCAPE PLANS. NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES INCLUDING UTILITY ENCLOSURES AND VAULTS, FIRE HYDRANTS, STREET AND SAFETY SIGNAGE, LIGHT POLES, CURBS, AND WALKWAYS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING LOCATIONS OF ALL UTILITIES PRIOR TO LANDSCAPE WORK. CALL FOR UTILITY LOCATES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL PAY AND SECURE ANY REQUIRED LANDSCAPE CONSTRUCTION PERMITS.
5. THE CONTRACTOR SHALL MAINTAIN ALL NEW AND EXISTING UTILITIES IN GOOD WORKING ORDER AND PROTECT THEM FROM DAMAGE AT ALL TIMES UNTIL THE WORK IS COMPLETED AND ACCEPTED.



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Revisions:

Sheet Title:

LANDSCAPE PLAN-OVERALL

Designed by: HMS Drawn by: HMS Checked by: CDA

Sheet No.

L-000



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LANDSCAPE SPECIFICATIONS (PER USFS STANDARD TRAIL SPECIFICATIONS)

995.01 UNTREATED STRUCTURAL TIMBER AND LUMBER.

1. CONFORM TO AASHTO M 168. FURNISH AN INSPECTION CERTIFICATION FROM AN AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARDS COMMITTEE FOR THE SPECIES AND GRADE. MARK ALL PIECES WITH THE INSPECTION SERVICE, GRADE DESIGNATION, SPECIES, AND INSPECTOR IDENTITY.
2. SEASON AND DRY ALL STRUCTURAL TIMBER AND LUMBER BEFORE FABRICATION. DO NOT USE MATERIAL THAT IS TWISTED, CURVED, OR OTHERWISE DISTORTED.
3. DO NOT USE BOXED-HEART PIECES OF DOUGLAS FIR OR REDWOOD IN OUTSIDE STRINGERS, FLOOR BEAMS, CAPS, POSTS, SILLS, OR RAIL POSTS. BOXED-HEART PIECES ARE DEFINED AS TIMBER SO SAWED THAT AT ANY POINT IN THE LENGTH OF A SAWED PIECE THE PITH LIES ENTIRELY INSIDE THE FOUR FACES.
4. SELECT NATIVE LOG STRINGERS FROM DESIGNATED SITES ON GOVERNMENT-ADMINISTERED LAND. SELECT THE SPECIES AND SIZES OF MATERIALS AS SHOWN ON THE PLANS. SELECT NATIVE LOG STRINGERS THAT ARE STRAIGHT, SOUND, AND FREE OF DEFECTS. OBTAIN CO APPROVAL OF LOGS AND TREES BEFORE FELLING OR MOVING THEM TO THE SITE. FELL TREES TO PREVENT DAMAGE TO STANDING TIMBER AND TO MINIMIZE BREAKAGE OF TREES TO BE USED. BUCK LOGS FROM FELLED TREES IN SUCH A WAY TO MINIMIZE WASTE AND TO OBTAIN THE REQUIRED LENGTH AND DIAMETER.
5. PEEL LOGS, SQUARE THE ENDS, AND TRIM THE KNOTS AND LIMBS FLUSH UNLESS OTHERWISE SHOWN ON THE PLANS. SCATTER THE DEBRIS FROM THE PROCESSING OF TIMBER AWAY FROM THE TRAIL AND SO IT WILL NOT BLOCK THE TRAIL OR PLUG WATER COURSES.
6. FIELD TREAT THE FOLLOWING UNTREATED TIMBER SURFACES IN ACCORDANCE WITH AWPA STANDARD M4.

- (A) ALL ENDS AND TOPS, AND ALL CONTACT SURFACES OF POSTS, SILLS, AND CAPS.
- (B) ALL ENDS, JOINTS, AND CONTACT SURFACES OF BRACING AND TRUSS MEMBERS.
- (C) ALL SURFACES OF TIMBER BUMPERS AND THE BACK FACES OF BULKHEADS.
- (D) ALL OTHER TIMBER THAT WILL BE IN CONTACT WITH EARTH.
- (E) ALL ENDS OF LOG STRINGERS.

995.02 HOLES FOR BOLTS, DOWELS, RODS & LAG SCREWS.

7. BORE ALL HOLES BEFORE PRESERVATIVE TREATING THE WOOD.
8. BORE HOLES FOR ROUND DRIFT BOLTS AND DOWELS 1/16 INCH SMALLER IN DIAMETER THAN THAT OF THE BOLT OR DOWEL TO BE USED. ENSURE THAT THE DIAMETER OF HOLES FOR SQUARE DRIFT BOLTS OR DOWELS IS EQUAL TO THE SIDE DIMENSION OF THE BOLT OR DOWEL.
9. BORE HOLES FOR MACHINE BOLTS 1/16 INCH LARGER THAN THE DIAMETER, EXCEPT WHEN GALVANIZED BOLTS ARE SPECIFIED. IN THIS CASE, DRILL ALL HOLES 1/8 INCH GREATER THAN THE BOLT SIZE.
10. BORE HOLES FOR LAG SCREWS 1/16 INCH LARGER FOR THE SHANK PORTION OF THE LAG SCREW AND DRILL THE REMAINDER OF THE HOLE APPROXIMATELY 75 PERCENT OF THE SHANK DIAMETER TO A DEPTH OF 1 INCH LESS THAN THE LENGTH OF THE SCREW.

995.03 HARDWARE.

11. USE NAILS OF STANDARD FORM (ASTM F 1667), WOOD SCREWS (ANSI/ASME B 18.6.1), HEX HEADED BOLTS AND NUTS (ASTM A307), LAG SCREWS (ASTM A307 AND ANSI/ASME B18.2.1), CARRIAGE BOLTS (ASTM A307), AND DRIFT PINS AND DOWELS (ASTM A307) AS SHOWN ON THE PLANS.

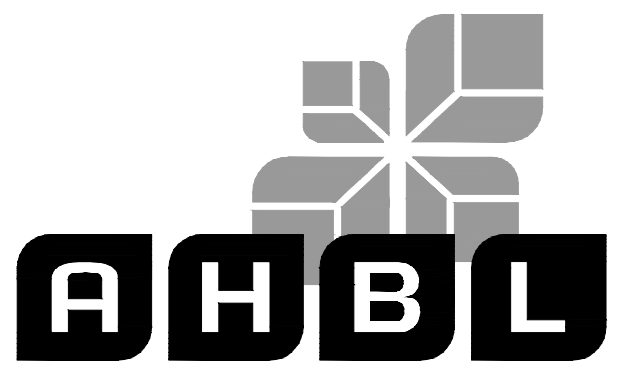
12. FABRICATE WASHERS FROM GRAY IRON OR MALLEABLE IRON CASTINGS UNLESS STRUCTURAL WASHERS ARE SPECIFIED. USE MALLEABLE IRON WASHERS WITH A DIAMETER APPROXIMATELY FOUR TIMES THE BOLT DIAMETER UNDER ALL BOLT HEADS OR NUTS IN CONTACT WITH WOOD, UNLESS OTHERWISE SHOWN ON THE PLANS.
13. GALVANIZE ALL HARDWARE ACCORDING TO AASHTO M 232 OR CADMIUM PLATE ALL HARDWARE ACCORDING TO ASTM B 766 CLASS 12, TYPE III, UNLESS OTHERWISE SHOWN ON THE PLANS, EXCEPT FOR THE GLUED LAMINATED DECK PANEL DOWELS. ENSURE THAT ALL FASTENERS, INCLUDING NAILS, SPIKES, BOLTS, WASHERS, AND TIMBER CONNECTORS, OTHER THAN MALLEABLE IRON, ARE GALVANIZED.
14. FINAL TIGHTEN ALL NUTS TO PROVIDE PROPER BEARING AND SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS SUFFICIENT TIGHTNESS TO BRING FACES OF MEMBERS INTO FIRM CONTACT WITH EACH OTHER. CUT OFF EXCESS BOLT LENGTHS OF MORE THAN 1 INCH. AFTER FINAL TIGHTENING, CHECK OR BURR ALL BOLTS EFFECTIVELY WITH A POINTING TOOL TO PREVENT LOOSENING OF THE NUTS.

995.04 TREATED STRUCTURAL TIMBER AND LUMBER.

15. FURNISH WOOD ACCORDING TO SUBSECTION 995.01. INCISE ALL WOOD AND MAKE ALL DIMENSIONAL CUTS AND HOLES IN THE WOOD BEFORE PRESSURE TREATMENT. USE WOOD PRESERVATIVE TREATMENT METHODS MEETING THE REQUIREMENTS OF AASHTO M 133 AS SHOWN ON THE PLANS. TREAT DIMENSIONAL LUMBER, SAWN TIMBER AND GLUED LAMINATED TIMBER MEMBERS ACCORDING TO AWPA STANDARDS AS SHOWN ON THE PLANS.
16. ALL TREATED STRINGERS, DECKING, RUNNING PLANKS, AND HANDRAILS SHALL BE TREATED AFTER FABRICATION IN ACCORDANCE WITH AWPA U1. USE CATEGORY SYSTEM, USING PENTACHLOROPHENOL OR COPPER NAPHTHENATE (CUN) IN LIGHT OIL. (TYPE C SOLVENT) FOR USE CATEGORY UC3B.
17. ALL TREATED SUBSTRUCTURES (SILLS, BACKING PLANKS, CRIBS, TIMBER WALLS, ETC.) SHALL BE TREATED AFTER FABRICATION IN ACCORDANCE WITH AWPA U1 USE CATEGORY SYSTEM, USING PENTACHLOROPHENOL OR COPPER NAPHTHENATE (CUN) IN HEAVY OIL (TYPE A SOLVENT) FOR USE CATEGORY UC4B.
18. TREAT TIMBER MEMBERS SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF WWPI'S BEST MANAGEMENT PRACTICES FOR THE USE OF TREATED WOOD IN AQUATIC ENVIRONMENTS.
19. EXCEPT FOR PINE, INCISE BEFORE TREATMENT ALL SURFACES GREATER THAN 2 INCHES IN WIDTH AND ALL DOUGLAS FIR AND WESTERN LARCH SURFACES. FIELD TREAT ALL CUTS, ABRASIONS, DRILLED HOLES, AND RECESSES THAT OCCUR AFTER INITIAL PRESERVATIVE TREATMENT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN AWPA STANDARD M4, STANDARD FOR THE CARE OF PRESSURE-TREATED WOOD PRODUCTS. PLUG ALL UNUSED HOLES WITH PRESERVATIVE-TREATED PLUGS. PERFORM ALL FIELD-APPLIED PRESERVATION TREATMENT WITH NECESSARY PRECAUTIONS SO AS TO PREVENT SOIL AND/OR WATER CONTAMINATION.
20. ALL TREATED TIMBER MEMBERS MUST HAVE AN APPROVED AMERICAN LUMBER STANDARDS COMMITTEE QUALITY MARK, INDIVIDUALLY OR SEALED PALLETS, ASSURING THAT TREATMENT CONFORMS TO THE APPROPRIATE AWPA STANDARDS.
21. SUBMIT A CERTIFIED COPY OF THE LOT CERTIFICATION, BY A QUALIFIED INDEPENDENT INSPECTION AND TESTING AGENCY, TO THE CO FOR EACH CHARGE OF PRESERVATIVE, STATING PENETRATION IN INCHES AND RETENTION IN POUNDS PER CUBIC FOOT (ASSAY METHOD). IN ADDITION, PROVIDE A WRITTEN CERTIFICATION FROM THE PRODUCER OF THE TREATED PRODUCTS THAT "BEST MANAGEMENT PRACTICES FOR TREATED WOOD IN

WESTERN AQUATIC ENVIRONMENTS," PUBLISHED BY THE WESTERN WOOD PRESERVERS INSTITUTE AND CANADIAN INSTITUTE OF TREATED WOOD, WERE UTILIZED. INCLUDE A DESCRIPTION AND APPROPRIATE DOCUMENTATION OF THE BEST MANAGEMENT PRACTICES USED.

22. HANDLE TREATED TIMBER ACCORDING TO THE CONSUMER INFORMATION SHEET PUBLISHED BY AWPA. DO NOT CUT, FRAME, OR BORE TREATED TIMBER AFTER TREATMENT UNLESS APPROVED BY THE CO. HANDLE TREATED TIMBERS CAREFULLY AND DO NOT DROP, DAMAGE OUTER FIBERS, OR PENETRATE THE SURFACE WITH TOOLS. DO NOT USE CANT DOGS, HOOKS OR PIKE POLES. IN COASTAL WATERS, DO NOT CUT OR BORE TIMBER BELOW THE HIGHWATER MARK.



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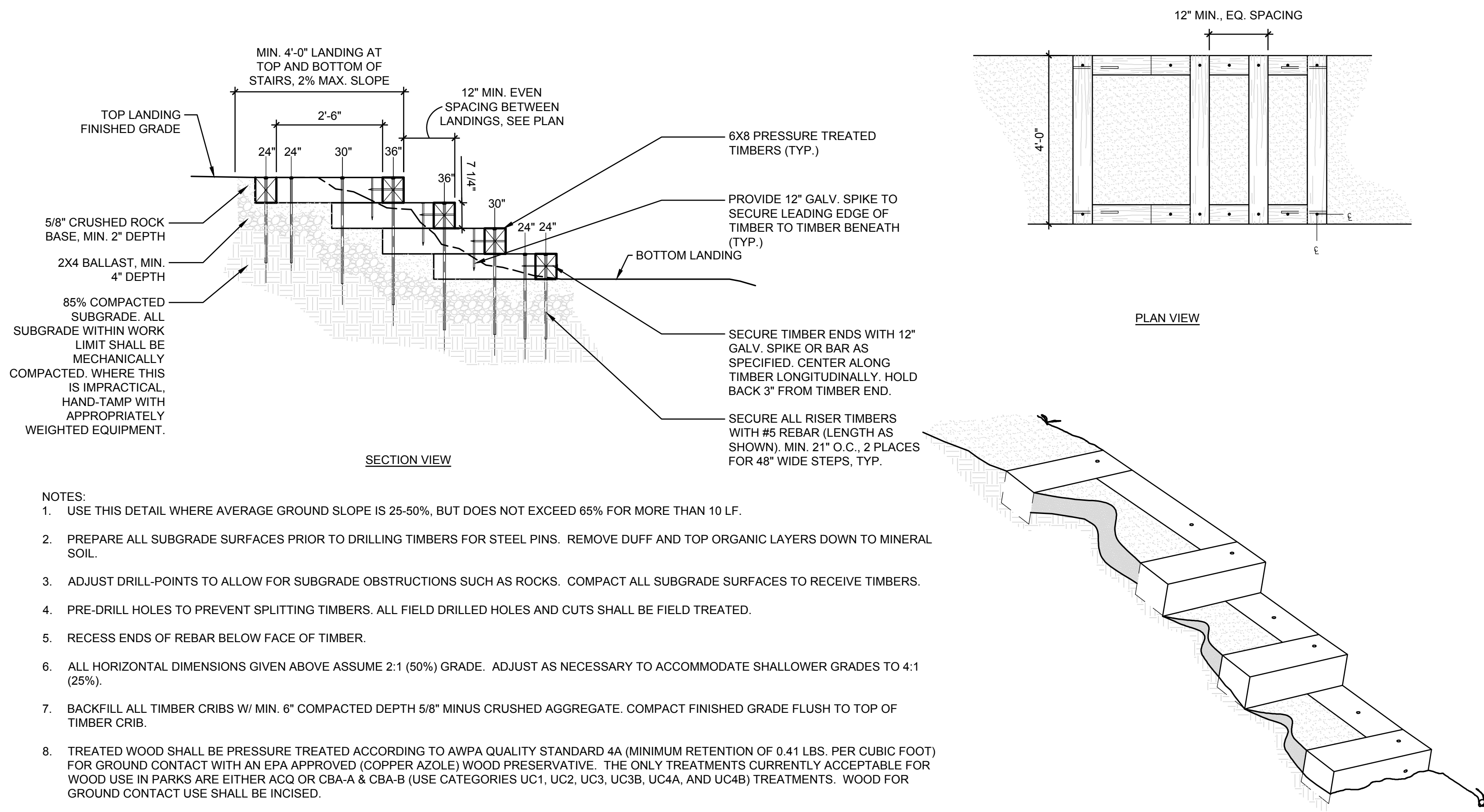
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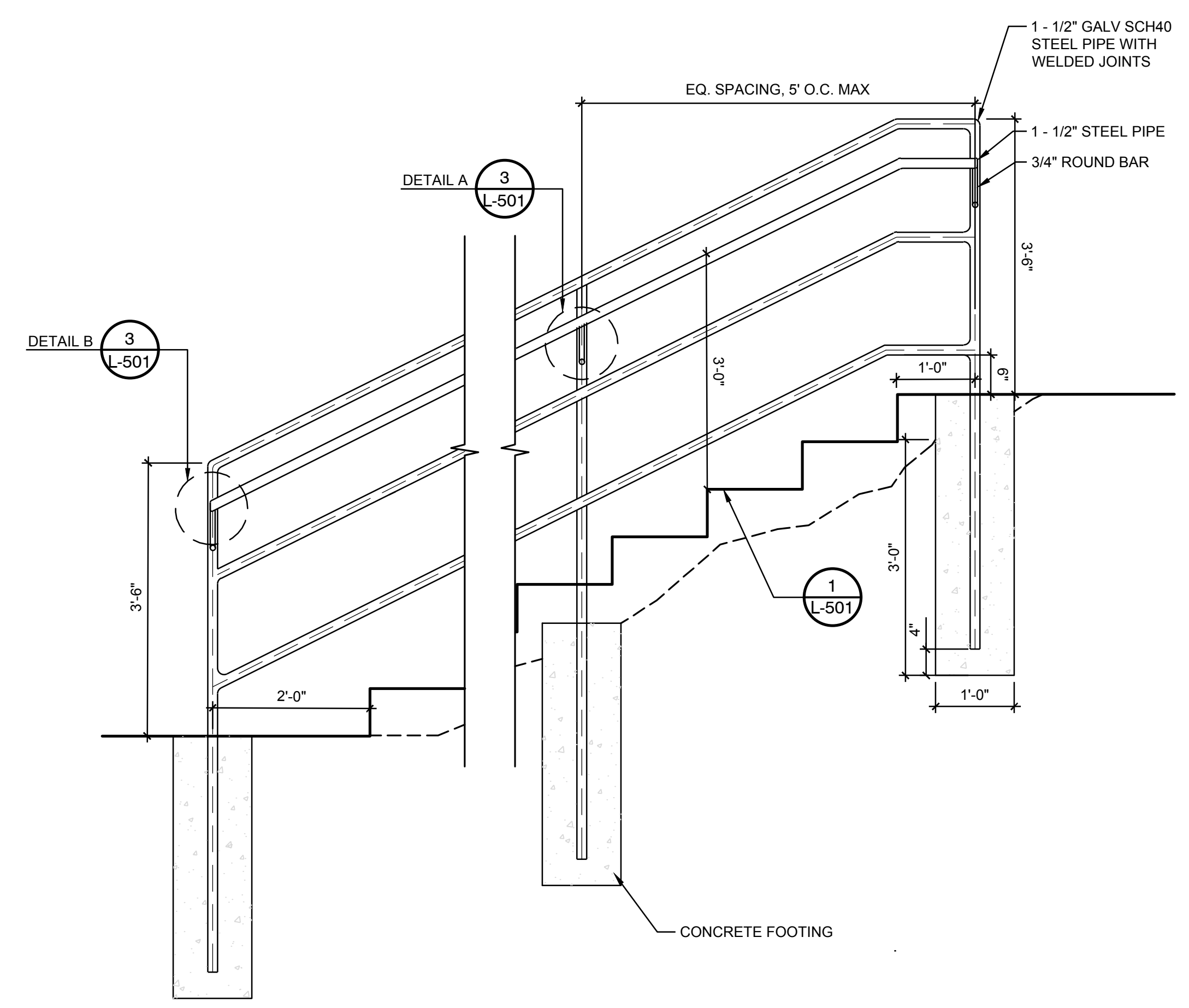
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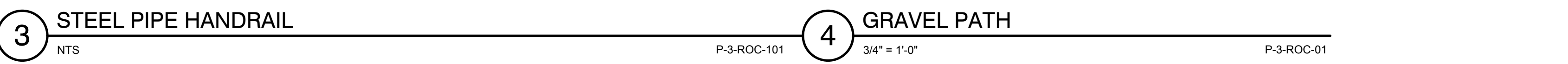
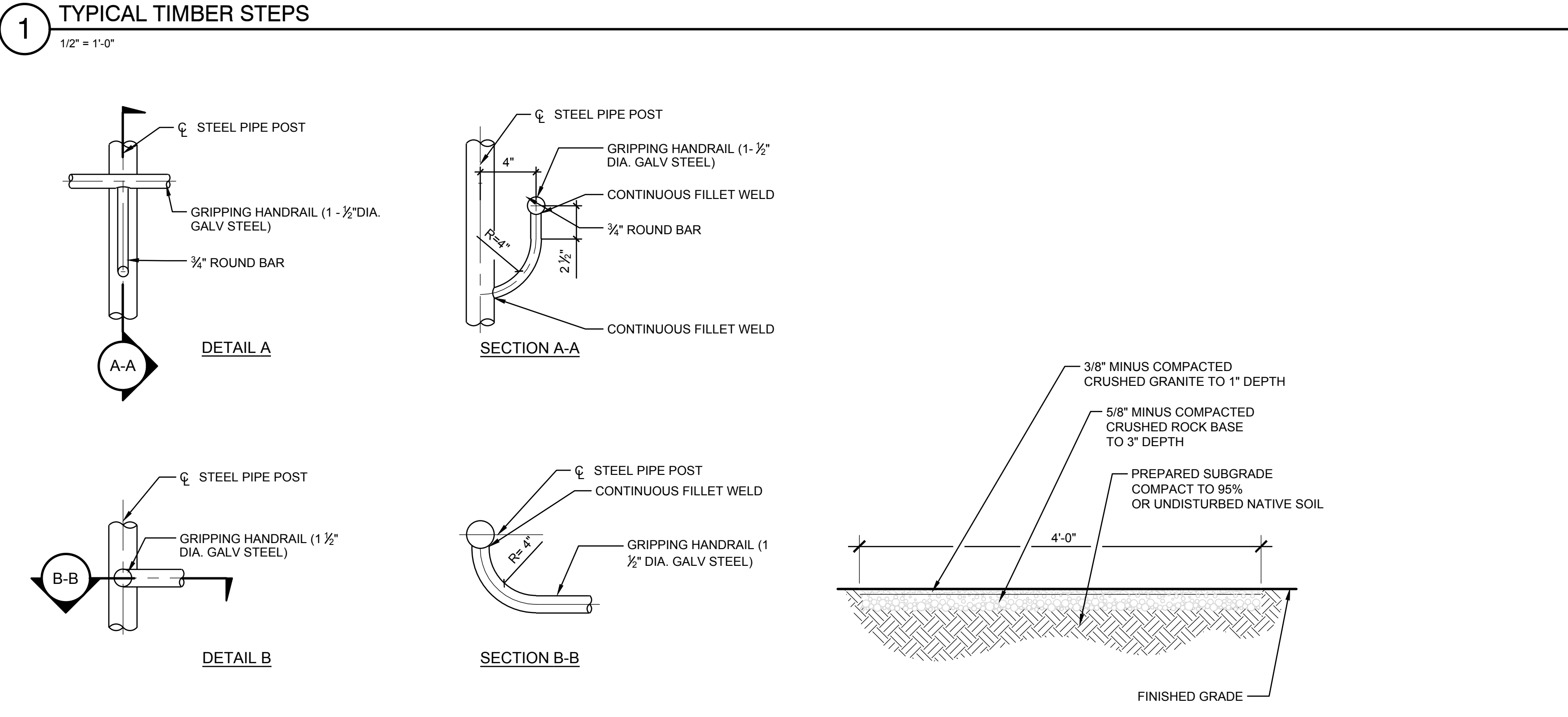
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- NOTES:**
- USE THIS DETAIL WHERE AVERAGE GROUND SLOPE IS 25-50%, BUT DOES NOT EXCEED 65% FOR MORE THAN 10 LF.
 - PREPARE ALL SUBGRADE SURFACES PRIOR TO DRILLING TIMBERS FOR STEEL PINS. REMOVE DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
 - ADJUST DRILL-POINTS TO ALLOW FOR SUBGRADE OBSTRUCTIONS SUCH AS ROCKS. COMPACT ALL SUBGRADE SURFACES TO RECEIVE TIMBERS.
 - PRE-DRILL HOLES TO PREVENT SPLITTING TIMBERS. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
 - RECESS ENDS OF REBAR BELOW FACE OF TIMBER.
 - ALL HORIZONTAL DIMENSIONS GIVEN ABOVE ASSUME 2:1 (50%) GRADE. ADJUST AS NECESSARY TO ACCOMMODATE SHALLOWER GRADES TO 4:1 (25%).
 - BACKFILL ALL TIMBER CRIBS W/ MIN. 6" COMPACTED DEPTH 5/8" MINUS CRUSHED AGGREGATE. COMPACT FINISHED GRADE FLUSH TO TOP OF TIMBER CRIB.
 - TREATED WOOD SHALL BE PRESSURE TREATED ACCORDING TO AWPQ QUALITY STANDARD 4A (MINIMUM RETENTION OF 0.41 LBS. PER CUBIC FOOT) FOR GROUND CONTACT WITH AN EPA APPROVED (COPPER AZOLE) WOOD PRESERVATIVE. THE ONLY TREATMENTS CURRENTLY ACCEPTABLE FOR WOOD USE IN PARKS ARE EITHER ACQ OR CBA-A & CBA-B (USE CATEGORIES UC1, UC2, UC3, UC3B, UC4A, AND UC4B) TREATMENTS. WOOD FOR GROUND CONTACT USE SHALL BE INCISED.



- NOTES:**
- RAILING MUST BE HOT DIP GALVANIZED AFTER FABRICATION.
 - ALL POSTS MUST BE PLUMB AND RAILS PARALLEL TO THE GROUND.
 - PIPE MATERIAL MUST CONFORM TO ASTM A 53 AND ROUND BAR ASTM A36.
 - REINFORCING STEEL ASTM A 706 GR 60.
 - PIPE DIAMETERS SHOWN CORRESPOND TO PIPE "SHAPE" AS DEFINED IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.



ROCKET GULCH TRAILHEAD

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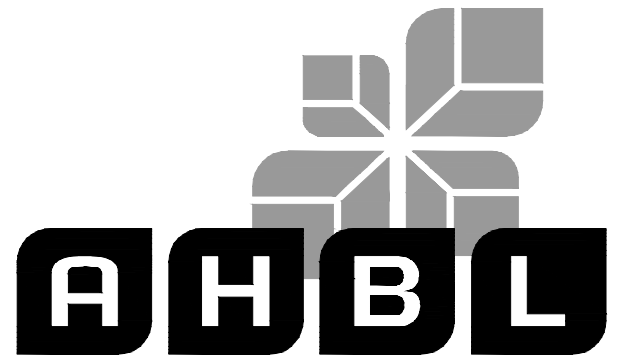
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Drawn by: HMS
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TRAILHEAD**

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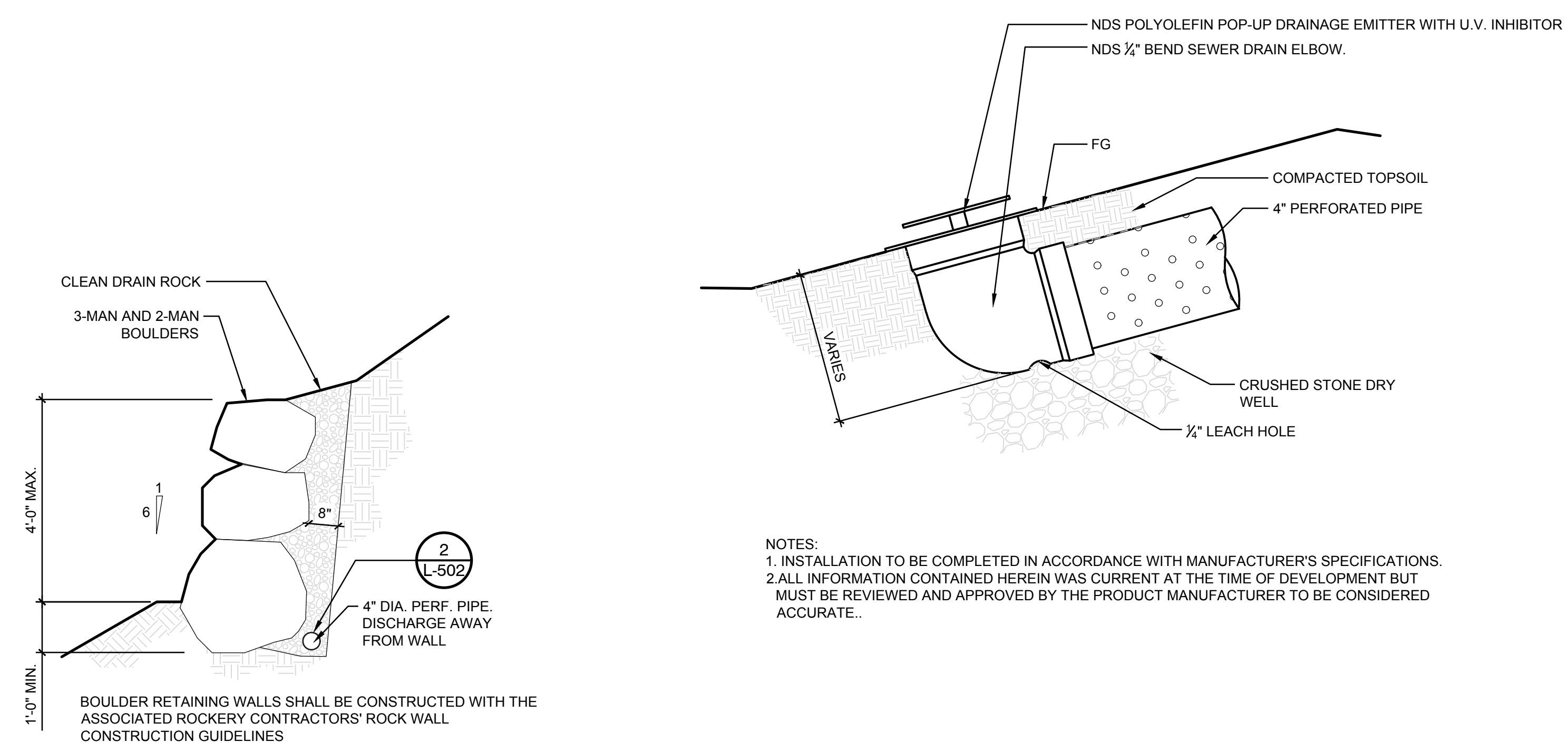
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1 BOULDER RETAINING WALL
1/2" = 1'-0"

2 NDS 4" POP-UP DRAINAGE EMITTER
3/4" = 1'-0"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

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