### GHD STANDARD A1 ATTRIBUTE BLOCK

Cad File No.: GHD_G_0045_T
Updated: 08-07-03
Version: 1.1

This Drawing shall not be used for Construction unless Signed and Sealed For Construction.

### GHD STANDARD A1 SHEET

Cad File No.: GHD_G_0045
Updated: 08-07-03
Version: 1.1

Check Drafting Date

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Notes:

- * indicates signatures on original issue of drawing or last revision of drawing.
- Plot Date: 19 May 2020 - 1:10 PM
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EROSION, SEDIMENT, POLLUTION AND WASTE CONTROL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO THE ADJACENT STREAM AND SENSITIVE AREAS.

2. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF CHAPTER 33 OF THE CALIFORNIA BUILDING CODE, APPLICABLE HUMBOLDT COUNTY REGULATIONS, AND SECTION 20 OF THE CALIFORNIA BUILDING CODE AS REQUIRED.

3. AT A MINIMUM, THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED IN THE CURRENT CALIFORNIA TRANSPORTATION HANDBOOK AS NEEDED:

- SS-1 PRESERVATION OF EXISTING VEGETATION
- SS-3 OUTLET PROTECTION/VOLUNTARYurred drainage systems are functional, the site is stabilized, and construction has been completed.

4. ENERGY DISSIPATORS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY STORM WATER FLOW LEADING TO SOIL EROSION.

5. SOIL AND MATERIAL STORED SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUANT TRANSPORT FROM THE CONSTRUCTION SITE.

6. TEMPORARY CONSTRUCTION ACTIVITY WASH/WATER DIVERSION SHALL BE MAINTAINED DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF POLLUTANTS.

7. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT FEASIBLE. THESE CONTROLS MAY INCLUDE NON-DESTRUCTIVE OR DESTRUCTIVE METHODS TO CONTAIN OR CONVEY EXCESS SEDIMENT, TRASH, NUTRIENTS, PATHOGENIC MICROORGANISMS, METALS, CONCRETE, CEMENT, ASPHALT, LIQUID LABORATORY AND CONSTRUCTION WASTE PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE EQUIPMENT WASH WATER, CONSTRUCTION WASTE, CRUSHED AND COLORIZED WATER.

8. WHENEVER IT IS NOT POSSIBLE TO UTILIZE EROSION PREVENTION MEASURES, EXPOSED SLOPES SHALL BE EROSION CONTROL MEASURED, SUCH AS FIBER ROLLS AND SILT FENCES. FIBER ROLLS AND SILT FENCES SHALL BE PROPERLY PLACED AND MAINTAINED TO PREVENT SEDIMENT FROM COASTING OR SLIDING OVER RISES AND INTO SLOPES.

9. THE CONTRACTOR SHALL PROTECT STORM DRAIN INLETS FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL, THE SITE IS STABILIZED, AND CONSTRUCTION HAS BEEN COMPLETED.

10. ENERGY DISSIPATORS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY STORM WATER FLOW LEADING TO SOIL EROSION.

11. SOIL AND MATERIAL STORED SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUANT TRANSPORT FROM THE CONSTRUCTION SITE.

12. SOLID WASTE SUCH AS TRASH AND DEBRIS SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEANED OF SOLID WASTE ONLY, AS NECESSARY, AND REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE ARRANGED.

13. PROPER APPLICATION, CLEANING AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE PERFORMED TO PREVENT THE DISCHARGE OF POLLUTANTS.

14. WORKZONES, TEMPORARY BEDROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED TO PREVENT THE DISCHARGE OF POLLUTANTS.

15. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

16. ENTERANCES TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFF SITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADSWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF BEFORE WORKING EACH WORKDAY OR MORE FREQUENTLY, AS NECESSARY.

17. TEMPORARY CONSTRUCTION ACTIVITY WASH/WATER DIVERSION SHALL BE MAINTAINED DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF POLLUTANTS.

18. ALL EXISTING GOLF COURSE AND STAGNANT/STOCKPOND AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES OR FLOODHAUL ROUTES WILL BE RETURNED TO ORIGINAL EXISTING CONDITIONS OR BETTER.

19. ALL DITCHES, SWALES, CULVERTS, ETC. SHOULD BE CONSIDERED ACTIVITIES, WORK SHOULD BE Halted. A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. IF HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE SITE OF THE FIND.

20. SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE REMOVED UPON COMPLETION AND DISTURBED AREAS RESTORED BACK TO PRE-PROJECT CONDITIONS OR BETTER UPON COMPLETION OF Hauling THE CONTRACTOR SHALL REMOVE ANY IMPORTED MATERIALS, DE-CONSTRUCTION AND ACCEPTED.

21. TEMPORARY Haul ROUTES ESTABLISHED BY THE CONTRACTOR SHALL BE MOVED UPON COMPLETION AND DISTURBED AREAS RESTORED BACK TO PRE-PROJECT CONDITIONS OR BETTER UPON COMPLETION OF Hauling THE CONTRACTOR SHALL REMOVE ANY IMPORTED MATERIALS, DE-CONSTRUCTION AND ACCEPTED.

22. CONTRACTOR IS RESPONSIBLE FOR PREVENTING VISIBLE AIRBORNE DUST PAINT, PLASTIC, ASBESTOS, WOOD, CONCRETE, METAL, AND LIGHTING Fixtures, including VARIOUS TYPES OF BUILDING MATERIALS, ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR’S WORK ON THE SITE IS COMPLETED AND ACCEPTED.

23. EXTREME CAUTION WILL BE USED WHEN HANDLING AND/OR STORING CHEMICALS AND HAZARDOUS MATERIALS (E.G., FUEL AND HYDRAULIC FLUIDS) NEAR WATERWAYS. ALL AND ANY APPROPRIATE LAWS AND REGULATIONS WILL BE FOLLOWED. APPROPRIATE MATERIALS WILL BE ON SITE TO PREVENT AND MANAGE SPILLS.

24. THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES TO AVOID ANY SPILLS OR LEAKS ON THE SITE FROM PRODUCT REGRESSION. THE CONTRACTOR SHALL PREPARE A SPILL PREVENTION AND RESPONSE PLAN THAT WILL BE APPROVED BY THE CONSTRUCTION MANAGER AND ENVIRONMENTAL MONITOR. THE CONTRACTOR SHALL ALSO REQUIRE THAT STAGING, STORAGE, AND REFURBISHING AREAS AND ANY EQUIPMENT THAT TOOK OFF OR SIMILAR ACTIVITY TAKE PLACE WHEN EQUIPMENT IS AT LEAST 100 FEET AWAY FROM ANY ACTIVE CREEK CHANNEL, DITCH, POND, OR FENCED SENSITIVE AREA. REFURBISHING SHALL ONLY OCCUR IN AREAS APPROVED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL INSPECT AND FULLY CLEAN UP ANY SUCH LEAKS OR SPILLS THAT OCCUR ON THE SITE.
1. LOCATIONS OF EXISTING UTILITIES & STRUCTURES ARE FROM INFORMATION AVAILABLE AT TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POCKET FOR EXACT LOCATION.

2. ALL CONSTRUCTION ACTIVITY SHALL BE CONFINED WITHIN THE LIMIT OF DISTURBANCE SHOWN, UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER.
BY HAND EXCAVATION

1. TRENCH SHALL BE BORING FILLED WITH INERT MATERIAL.
2. IMPROVEMENT SHOULDN'T BE PLACED OR IN RANGE OF MANUAL BACKHOE.
3. EXISTING FILTER FABRIC NEEDS TO BE INSTALL IN A CONTINUOUS ROLL TO AVOID THE USE OF POSTS.
4. GROUND NEEDS TO BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND SEEDED.
5. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY.
6. LANDSCAPE DEPOSITS SHOULD BE PLACED AFTER THE FILTER FABRIC IS NO LONGER REQUIRED SHOULD BE DRESSED WITH THE EXISTING GRADE AND SEEDED.

NOTE: CONTRACT DEPARTMENT REQUIRE THATS ATTACHED TO GRAVITY DIVERSION TRAP.

UNLINED OR LINNED AGGREGATE GREATER THAN 3" BUT SMALLER THAN 32".

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

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NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

SILT FENCE GEOTEXTILE WITH ORANGE PLASTIC MESH ATTACHED TO T-POST.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

ATTACH SILT FENCE GEOTEXTILE TO ORANGE PLASTIC MESH UP HILL SIDE OF POST.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

VINATURAL/DE-COMPACTED TO PRE-PROJECT CONDITIONS.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

PLACE WASHED ROCK A MIN OF 2' BELOW WALL FABRIC AND ORANGE PLASTIC MESH.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

PERFECT SANDING TO BE PLACED AT DIRECTION OF ENGINEER AND CONSTRUCTION MANAGER.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

FILTER FABRIC SHOULDN'T BE INSTALL IN A CONTINUOUS ROLL TO AVOID THE USE OF POSTS.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

POST MUST BE SPACED A MAXIMUM OF 6' APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12".

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND 6" DEEP ALONG THE LINE OF POSTS UNTIL THE BOTTOM OF THE TRENCH IS NO LONGER REQUIRED SHOULD BE DRESSED WITH THE EXISTING GRADE AND SEEDED.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

A MINIMUM OF 2' BELOW WALL FABRIC AND ORANGE PLASTIC MESH.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

EDGE OF IMPERMEABLE LINER.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND 6" DEEP ALONG THE LINE OF POSTS UNTIL THE BOTTOM OF THE TRENCH IS NO LONGER REQUIRED SHOULD BE DRESSED WITH THE EXISTING GRADE AND SEEDED.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

A MINIMUM OF 2' BELOW WALL FABRIC AND ORANGE PLASTIC MESH.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

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TEMPORARY SILT FENCE DETAIL

SCALE: NTS

ATTACH SILT FENCE GEOTEXTILE TO ORANGE PLASTIC MESH UP HILL SIDE OF POST.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

FILTER FABRIC AND ORANGE PLASTIC MESH UPHILL SIDE OF POST.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

FILTER FABRIC AND ORANGE PLASTIC MESH UPHILL SIDE OF POST.

NOTE: CONSTRUCT SEDIMENT BARRIER & TRAPPING DEVICE.

FILTER FABRIC AND ORANGE PLASTIC MESH UPHILL SIDE OF POST.
14' TYPICAL WIDTH (N) INTERLOCKING COMPOSITE ROAD MATS, 3" - 4" THICK (N) 100% CRUSHED ROCK OR EQUIVALENT (E) GROUND SURFACE (N) GEO-GRID MEDIUM WEIGHT (N) MEDIUM WEIGHT WOVEN FILTER FABRIC

PRE-MANUFACTURED STEEL BRIDGE SCALE: NTS

TYPICAL TEMPORARY ACCESS ROAD DETAILS

TYPICAL BANK RECONSTRUCTION DETAIL

NOTES:
1. REMOVE (E) VEGETATION AND ANY DEBRIS OR DELETERIOUS MATERIAL ENCOUNTERED WITHIN FOOTPRINT OF NEW BANK.
2. BIODEGRADABLE MAT TO BE INSTALLED AS SHOWN IN THE PLAN, PER THIS DETAIL, AND PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. BIODEGRADABLE MAT TO BE INSTALLED ON NEW RECONSTRUCTED BANKS AND SHALL EXTEND A MINIMUM OF 20' UPSTREAM AND 20' DOWNSTREAM BEYOND LIMITS OF RECONSTRUCTED BANKS.
4. BIODEGRADABLE MAT SHALL BE ROLANKA BIO D-MAT 70 OR APPROVED EQUAL.
5. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. MAT SHALL HAVE GOOD SOIL CONTACT.
6. APPLY SEED MIX BEFORE PLACING MAT.
7. LAY MAT LOOSELY AND STAKE PER MANUFACTURER’S RECOMMENDATIONS TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH.
8. STAKES SHALL BE WOOD, MIN 12" LONG AND MIN 1" X 1.5" CROSS SECTION.
9. CONTRACTOR SHALL PROVIDE SAMPLE OF MAT AND MANUFACTURER’S INSTALLATION RECOMMENDATIONS TO THE CONSTRUCTION MANAGER FOR REVIEW/APPROVAL PRIOR TO INSTALLATION.
10. MAT TO BE INSTALLED AFTER GRADING COMPLETE AND WOOD STRUCTURES INSTALLED.

MATCH (N) BANK TO (E) GROUND FINISH GRADE MARTIN SLOUGH, TYP PLACE FILL IN 12" THICK MAX LOOSE LIFTS AND COMPACT BIODEGRADABLE MAT. EXTEND MAT FROM CHANNEL TOE TO TOP OF BANK (MINIMUM), STAKE & ANCHOR PER MANUFACTURER'S RECOMMENDATIONS

CHANNEL WIDTH VARIES EXTEND BIODEGRADABLE MAT TO CHANNEL TOE, TYP. 2' 6" MIN 6" MIN

APPROVED COMPETENT BACKFILL WHERE FILL MATERIAL CREATES NEW CHANNEL BANK, TYP. (E) GROUND, VARIES BENCH SURFACE OF (E) BANK APPROX 8' WIDE AND 2-3' VERTICAL. COMPACT AS PRACTICAL PRIOR TO PLACING APPROVED COMPETENT BACKFILL

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Michael Love & Associates

RCAA/CITY OF EUREKA
MARTIN SLOUGH HABITAT ENHANCEMENT PROJECT

DETAILS SHEET
2 OF 7

Sheet No.: C-502

DRAWING NUMBER
Sheet Date:
MAY 17, 2020

DRAWING
11203661

PROJECT
STEVE ALLEN

PO Box 4477    Arcata, CA 95518     (707) 822-2411

DESIGNER

Michael Love & Associates

REVISION

DRAWN

REVIEWED

CHECKED

PLotted by:

Tina Windbigler

19

21 May 2020 - 11:31 AM

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C-502

MAY 17, 2020

C-502
NOTES:

1. REFER TO DETAILS FOR PIPE TRENCH.

2. ALL WIDTHS SHALL BE 24" OR 20" (2" FITTINGS), AND SHALL BE FULLY PROTECTED. TRENCH BORDERS ARE NOT REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3. CONSTRUCTION SHALL FULLY BURY ALL PIPE PRIOR TO PIPE INSTALLATION.

4. THE RESTRICTED LENGTH LISTED ON THE PAGE TO RIGHT ARE VALID FOR THE FOLLOWING INSTALLATION CONDITIONS:

- SOIL CLASSIFICATION: SEE JUDGE, JUDGE, JUDGE
- TRENCH PIPE: SEE JUDGE, JUDGE
- INSTALLATION AND joint: SEE JUDGE, JUDGE
- SAFETY FACTOR: 2.5
- 8' MIN W/ 12" OF GRAVEL ON TOP OF PIPE
- 12" MIN W/ 12" OF GRAVEL ON TOP OF PIPE
- PIPE SHALL BE FULLY RESTRAINED IF THRUST BLOCKING IS NOT USED. REFER TO CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION.

5. THRUST BLOCKS SHALL NOT BE LOCATED OR SIZED TO ENCLOSE ADJACENT PIPE.

6. THRUST BLOCKS ARE TO BE Poured AGAINST UNDISTURBED EARTH OR STRUCTURAL BACKFILL. THRUST BLOCKS ARE NOT REQUIRED WHERE JOINTS ARE ADEQUATELY RESTRAINED.

7. THE BEARING AREAS ARE BASED ON TEST PRESSURE OF 150 PSI AND BEARING AREA OF THRUST BLOCK IN SQ. FT.

8. THE SIZES AND RESTRAINTS OF ALL UPRIGHT THRUST BLOCKS SHALL BE AS DETERMINED BY ENGINEER.

9. THRUST BLOCKS SHALL NOT BE LOCATED OR USED TO ENCLOSE ADJACENT PIPE OR FITTINGS.

10. CONCRETE THRUST BLOCKS ARE TO BE FULLY RESTRAINED.

PIPE RESTRAINT REQUIREMENTS AT:

- SOIL CLASSIFICATION: SEE JUDGE, JUDGE, JUDGE
- TRENCH PIPE: SEE JUDGE, JUDGE
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- PIPE SHALL BE FULLY RESTRAINED IF THRUST BLOCKING IS NOT USED. REFER TO CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION.

PIPE TYPICAL DETAIL:

- PIPE OD
- PIPE DIA
- PIPE TYPE: PVC C900
- TEST PRESSURE: 150 PSI
- MATERIAL (WHEN IS GREATER THAN 15')
- NOT SPECIFIED: USE FULLY RESTRAINED JOINTS OR THE STANDARD DETAIL.
- MATERIAL (WHEN MATERIAL IS REQUIREMEXT)
- PIPE SHALL BE FULLY RESTRAINED IF THRUST BLOCKING IS NOT USED. REFER TO CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION.

CONCRETE THRUST BLOCKS ARE TO BE FULLY RESTRAINED.

PIPE TYPICAL WATER LINE VERTICAL ADJUSTMENT DETAIL:

- PIPE OD
- PIPE DIA
- PIPE TYPE: PVC C900
- TEST PRESSURE: 150 PSI
- MATERIAL (WHEN IS GREATER THAN 15')
- NOT SPECIFIED: USE FULLY RESTRAINED JOINTS OR THE STANDARD DETAIL.
- MATERIAL (WHEN MATERIAL IS REQUIREMEXT)
- PIPE SHALL BE FULLY RESTRAINED IF THRUST BLOCKING IS NOT USED. REFER TO CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION.

STANDARD THRUST BLOCK DETAILS:

- PIPE OD
- PIPE DIA
- PIPE TYPE: PVC C900
- TEST PRESSURE: 150 PSI
- MATERIAL (WHEN IS GREATER THAN 15')
- NOT SPECIFIED: USE FULLY RESTRAINED JOINTS OR THE STANDARD DETAIL.
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- PIPE OD
- PIPE DIA
- PIPE TYPE: PVC C900
- TEST PRESSURE: 150 PSI
- MATERIAL (WHEN IS GREATER THAN 15')
- NOT SPECIFIED: USE FULLY RESTRAINED JOINTS OR THE STANDARD DETAIL.
- MATERIAL (WHEN MATERIAL IS REQUIREMEXT)
- PIPE SHALL BE FULLY RESTRAINED IF THRUST BLOCKING IS NOT USED. REFER TO CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION.

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COVER LOG (3 TYP PER STRUCTURE) MIN 15' LONG, 1.5' DIA.

FRICTION ANCHOR, TYP (3 PER STRUCTURE)

PILE LOG, TYP (3 PER STRUCTURE) ANCHORED TO COVER LOG, PILE LOGS MIN 15' LONG, 1.5' DIA. EMBEDDED MIN 8'.

BRANCHES AND BRUSH FIRMLY SECURED BY COVER LOGS APPROX. 3' LOG TO LOG THROUGH-BOLT ANCHOR, TYP (3 PER STRUCTURE)

12 C-504 LOG COVER STRUCTURE

SCALE: NTS

13 C-504 ROOT WAD DEFLECTOR

SCALE: NTS

Orient root fan to face slightly upstream and embedded into bank.

Soil anchoring system, locate log length from ends or every 5' if log length greater than 10'.

Root wad (N) channel toe minimum 10' long, 2.5' diameter, embedded into bank to toe of active channel soil anchoring system, locate 1/3 log length from ends or every 5' if log length greater than 10'.

TOP OF BANK

ROOT WAD HABITAT STRUCTURE

SCALE: NTS

Soil anchoring system, locate log length from ends or every 5' if log length greater than 10'.

Log constractor log 20' (MIN) long, 1.5' (MIN) diameter

Note: Constractor Logs; 20' (MIN) long, 1.5' (MIN) diameter

Bottom constractor log 50° TO 60°

Station reference point

1.5'

50° TO 60°

0.5'

2'
BOLTED AND MUSHROOMED END OF THREADED REBAR. BOTH ENDS OF REBAR.

STEEL WASHER PLATE

THREADED REBAR THROUGH CENTER OF LOG

THREADED REBAR THROUGH CENTER OF LOG

STEEL WASHER PLATE

THREADED REBAR THROUGH CENTER OF BOTH LOGS

RECESSED MIN. 3-INCH INTO LOGS, BOTH ENDS

FRICTION ANCHOR THROUGH-BOLT

16

C-505

LOG TO LOG ANCHOR

SCALE: NTS

1:10

TYPICAL SOIL ANCHORING SYSTEM

PILE LOG

LOG TO LOG ANCHOR THROUGH BOLT ANCHOR

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MAY 17, 2020

RCAA/CITY OF EUREKA

MARTIN SLOUGH HABITAT ENHANCEMENT PROJECT

DETAILS SHEET

SHT 3 OF 7

C-505

Michael Love & Associates

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LOG WEIR

WEIR CREST REFERENCE POINT

NOTCH 3.5' DIA.

CREVICE

NOTCH 3.5' DIA.

SCALE: NTS

TRIANGULAR POOL (ADJACENT TO LOG)

NOTCH 3.5' DIA.

LIMIT OF TRENCHING

PILE LOG, MIN 15' LONG, 1.5' DIAMETER

NOTCH

OVERHANG 0.5'

REVIEW DETAIL THIS SHEET

PREFabricated BOLT ANCHOR

LIMIT OF TRENCHING

9' BELOW LIMIT OF TRENCHING

VARIABLE

LOG TO LOG THRU-BOLT ANCHOR

WEIR CREST

OVERHANG 0.5'

OVERHANG 2'

ELEVATION

TOP OF BANK

FINAL GRADE AT POOL

GHD Inc. (Project Director)

RCAA/CITY OF EUREKA

MARTIN SLOUGH HABITATION ENHANCEMENT PROJECT

STEVE ALLEN

5/15/20

11203661

DOB = MAY 17, 2020

MAY 17, 2020

DETAILS SHEET

Sht 6 of 7

MAY 17, 2020

2020-05-17 11:37

C-506

Michael Love & Associates

MAY 17, 2020

REFERENCES

WEIR LOG

RESIDUAL POOL DEPTH 2'

EXCAVATE POOL DOWNSTREAM OF LOG

WEIR. RESIDUAL POOL DEPTH OF 2 FEET.
**DISTANCE FROM CL OF ALIGNMENT**

**TEMPORARY SALINITY BARRIER**

**ELEVATION**

**HANDRAIL DETAILS**

**SCALE: NTS**

**GOLF CART BRIDGE DETAILS**

**SCALE: NTS**

**REVIEWED**

**DRAWN BY**

**DESIGNER**

**PROJECT**

**CONSTRUCTION**

**PROJECT DIRECTOR**

**MARTIN SLOUGH HABITAT ENHANCEMENT PROJECT**

**DETAIL SHEET**

**DRAWING NO:** C-507

**MAY 17, 2020**