NOTES:

1. CONTRACTOR SHALL ABANDON IN PLACE AND FILL RISER WITH CELLULAR CONCRETE. DEMOLISH EXISTING PAVING, CURB, AND GUTTER AS NEEDED FOR OPEN CUT REPLACEMENT. REPLACE IN KIND.
2. CONTRACTOR SHALL ABANDON IN PLACE AND FILL WITH CELLULAR CONCRETE.
3. DEMOLISH EXISTING PAVING, CURB, AND GUTTER AS NEEDED FOR OPEN CUT REPLACEMENT. REPLACE IN KIND.
4. RESTORE SURFACE IN KIND ALONG ENTIRE ALIGNMENT.
5. ABANDON EXISTING CMP STARTING AT "SECONDARY LINE" STA 45+05.35 TO MAIN LINE STA 45+14.64. NOTE 2.
6. ABANDON EXISTING CMP TO BE DEMOLISHED AND REPLACED WITH NEW CMP INLET.
7. INSTALL NEW CMP INLET.
8. DEMOLISH EXISTING CMP COUVERT PIPE FROM CONNECTION TO PVB OF NEW ALIGNMENT.

DESIGN OFFICE:
50 WEST LIBERTY ST, STE 205

CH2M HILL

DESTRUCTION AND ABANDONMENT PLAN

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
NOTES:

1. All temporary access roads shall be protected with sediment and erosion control BMP measures.
2. Temporary access roads shall be restored to pre-project condition following construction.
3. Contractor shall return grading at inlet to CS, with soils, vegetation, and approved BMPs.
4. Work shall be in accordance with permit requirements and limitations, including but not limited to, soils, vegetation, and approved BMPs.
5. Project in place, existing asphalt, curb, and gutter. Replace asphalt, curb, and gutter as needed to restore work area to pre-work condition.

WORK LIMITS:

1. Incline Creek
2. Diamond Peak Resort Base Lodge
3. Incline Village
4. Lot Parking
5. Lodgeline Quad Lift
6. Lakeview Quad Lift
7. Ski Lift Tower
8. Ski Lift Cable

NOTE 1

NOTE 2

NOTE 3

NOTE 4

NOTE 5

WORK AREA TO PRE-WORK CONDITIONS.

PROTECT-IN-PLACE EXISTING ASPHALT, CURB, AND GUTTERS. REPLACE ASPHALT, CURB, AND GUTTERS AS NEEDED TO RESTORE TRPA, AND APPROVED SWPPP AND DEWATERING PLANS.

WORK SHALL BE IN ACCORDANCE WITH PERMIT REQUIREMENTS AND LIMITATIONS, INCLUDING BUT NOT LIMITED TO, USFS, USACE, CONTRACTOR SHALL RETURN GRADE AT INLET TO CULVERT TO PRE-PROJECT CONDITIONS FOR FISH HABITAT.

TEMPORARY ACCESS ROAD. ALL ACCESS ROADS SHALL BE RESTORED TO PRE-PROJECT CONDITION FOLLOWING CONSTRUCTION.
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

NOTE 2, TYP

INCLINE CREEK OUTLET

PARTIAL PLAN

NOTE 1

NOTE 1

Pavement

1"=10'
NOTE: PERFORM POINT REPAIRS IN CONJUNCTION WITH PIPE REHABILITATION.

1. CONTRACTOR BINS: Remove state DOT pipe coating using NOx and the parameters listed in the rehabilitation technology table and point repair table.

2. EXISTING MANHOLE: Provision for drainage inflow not required.

3. TEMPoral FLOW AND SEAL: NAP.

4. SLIP LINER from STA 10+00 to STA 14+00 in accordance with the specifications, including provisions for maintaining the invert, stabilizing the soils, and removing the obstructions in advance of the slip liner.

5. CONTRACTOR BINS: Install new slip-lined inlet structure. See DWG S-3.

6. CONTRACTOR BINS: Abandon in place and fill with blocking sand or clean, ensuring no gap exists between pipe and slip liner of annular pipe.

7. REMOVE EXISTING CHAMBER, EXTEND 36" BRANCH TO LINE OF CENTER AT STA 5+00. INSTALL NEW CHAMBER AT CENTERLINE PER DWG S-2.

8. REMOVE OVERFLOW REPAIR AND SOLUTIONS FROM EXISTING CULVERT FROM STATION 10+00 TO 14+00. REMOVE EXISTING CULVERT TO PROVIDE SUFFICIENT SPOUTING SPACE FOR SLIP LINER PIPES prior to installation by backfilling with rock to elevation of invert. SHALL BE ALIGNED WITH INLETS AND SLEEPS prior to rock removal.

9. SOLVE TOTAL CHARGE PROBES CONTINUOUSLY THROUGH HORIZONTAL SECTIONS. CONTRACTOR MAY INJECT SLIP LINER THROUGH OPPOSITE ENDS AS FAR AS POSSIBLE. FINAL JOINING OF THE STEEL PIPE MAY BE PERFORMED BY PLATE WELDING AS PER:

10. IF SLIP LINER CANNOT PROCEED CONTINUOUSLY THROUGH HORIZONTAL BENDS, CONTRACTOR MAY INSERT SLIP LINER FROM OPPOSITE ENDS AS FAR AS POSSIBLE.

11. OPENING FOR SLIP LINER PIPE PRIOR TO INSERTION BY JACK OR RAM. STABILIZE ADJACENT SLOPE AND RIPRAP PRIOR TO ROCK REMOVAL.

12. CONTRACTOR BINS: INSTALL NEW CREEK ACCESS PATH.

S = -0.0262

13. PROPERTY LINE

14. TRENCHLESS REHABILITATION - 60" SLIP-LINED PIPE

- RELATED REVIEWS AND APPROVALS
- DATE: APRIL 2018
- PAGE: 1 OF 19
- FILENAME: 36/WATER_U_01 rev
- PLOT DATE: 20/09/2018
- PLOT TIME: 14:41:2:19

[Diagram and tables with specific measurements and notes]
1. Construct SHALL INSTALL MAIN DRAIN MEAT STRUCTURE, SEE NOTE 2.

2. Existing manhole to be demolished.

3. Provide grading and surface restoration such that surface water flows into manholes.

PROVIDE GRADING AND SURFACE RESTORATION SUCH THAT SURFACE WATER FLOWS INTO MANHOLES.

CONTRACTOR SHALL INSTALL NEW DROP INLET STRUCTURE, SEE ...

NOTE 1

36" MH 3

PISTA 20+20.49

S T A  2 0 + 5 0

T R E N C H  C U T O F F

SEE DWG C-6

EXISTING MANHOLE TO BE DEMOLISHED.

CONSTRUCT STREAMBANK STABILIZATION AND STREAMBED POOL RESTORATION, SEE DWG C-6.

NOTE 1

36" MH 4

PISTA 20+20.49

S T A  2 0 + 5 0

T R E N C H  C U T O F F

SEE DWG C-6

EXISTING MANHOLE TO BE DEMOLISHED.

CONSTRUCT STREAMBANK STABILIZATION AND STREAMBED POOL RESTORATION, SEE DWG C-6.

NOTE 1

36" MH 5

PISTA 24+85.51

S T A  2 4 + 8 5 .5 1

T R E N C H  C U T O F F

SEE DWG C-6

EXISTING MANHOLE TO BE DEMOLISHED.

CONTRACTOR SHALL INSTALL NEW DROP INLET STRUCTURE, SEE ...

NOTE 1

36" MH 6

PISTA 24+85.51

S T A  2 4 + 8 5 .5 1

T R E N C H  C U T O F F

SEE DWG C-6

EXISTING MANHOLE TO BE DEMOLISHED.

CONSTRUCT STREAMBANK STABILIZATION AND STREAMBED POOL RESTORATION, SEE DWG C-6.
NOTES

1. CONTRACTOR SHALL INSTALL NEW DROP INLET STRUCTURE
   EXISTING MANHOLE TO BE DEMOLISHED.

2. COMPLETELY TELL ABANDONED 36" CHP WITH CELLULAR CONCRETE OR EQUIL.

3. PROHIBIT BREAKING AND MATERIAL REPOSITION SUCH THAT DRAINAGE
   WATER FLOWS INTO MANHOLE

PLAN

PROFILE

EXISTING MANHOLE TO BE DEMOLISHED.
CONTRACTOR SHALL INSTALL NEW DROP INLET STRUCTURE

NOTE 1

300 LF 36" "SECONDARY LINE"

NOTE 1

24" MH 5 PI STA 41+56.83

BASE LODGE EXST GRADE
4" PVC ELEC
S = -0.0912

PI STA 44+00.00

NOTE 1

PI STA 42+91.36

IN V EL 6810.69
EL UNKNOWN

EXST 84" BURIED CHAMBER (ABANDON, NOTE 2)

GAS LODGEPOLE QUAD LIFT

GV

GV

E L U N K N O W N

14" WSP WATER

36" "SECONDARY LINE"

4" PVC SS

16" WSP WATER

4" PVC ELEC

45+00 (ABANDON, NOTE 2)

SEE DWG C-7

SEE DWG S-3

CHAMBER

EXP: 6/30/19

CIVIL

BY

DSGN

IN C L IN E C R E E K C M P  C U L V E R T R E H A B IL IT A T IO N  P R O JE C T

REUSE OF DOCUMENTS:

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CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
**SURFACE RESTORATION**

**1. DETAIL**

**NOTES:**

1. PROVIDE MOUND FOR SETTLEMENT UNDETECTED BY ENGINEER, SEE NOTE 5.
2. BASE CONCRETE, NO. 3 SPECIFIED, TO BE USED AS SHOULDER.
3. AS SHOWN, SEE NOTE 1.
4. TRENCH BASEMENT, ABOVE PIPE ZONE.
5. PIPE OUTSIDE DIAMETER.
6. PIPE ZONE.

**NOTE 1:** CONTRACTOR SHALL 3-6-18.

**TYPICAL TRENCH**

**2. DETAIL**

**NOTES:**

1. CONTRACTOR SHALL 3-6-18.

**TRENCH CUTOFF**

**3. DETAIL**

**NOTES:**

1. CONTRACTOR SHALL 3-6-18.

**FINISH GRADE**

**DETAIL**

**NOTES:**

1. CONTRACTOR SHALL 3-6-18.
NOTES:
1. DETAIL SHOWS TYPICAL WIRE CONNECTIONS FOR CATHODIC PROTECTION SYSTEMS. REFERENCE DRAWINGS FOR PROJECT SPECIFIC WIRE LOCATIONS AND ANODE PLACEMENT.
2. USE COPPER SLEEVE ON #2 AWG JOINING WIRES.
3. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO WIRE SIZE AND PIPE MATERIAL. CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
4. COAT WELD AREA AND FILL RECESS ON THERMITE WELD CAP WITH COLD APPLIED COAL TAR WASTIC AND APPLY CAP TO WELD.

CATHODIC PROTECTION
WIRE CONNECTION FOR STEEL AND DUCTILE IRON PIPE

DETAIL 1

DETAIL 2
1. **NOTE:**

   1. **NOTE:**
   
   2. **NOTE:**
   
   3. **NOTE:**
   
   4. **NOTE:**

   **SECTION**

   - **CONCRETE CLOSURE COLLAR**
   
   **DETAIL**

   **NOTES:**

   1. **NOTE:**

   2. **NOTE:**

   3. **NOTE:**

   4. **NOTE:**

   **PLAN**

   **SECTION**

   **DETAIL**
TRIM TAP REPAIR

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

CONTACT GROUTING TO BE PERFORMED AFTER FINAL STRUCTURAL REHABILITATION LAYER IS INSTALLED. CUT AND REMOVE OBSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS.

NOTE:

1. CONTACT GROUTING TO BE PERFORMED AFTER FINAL STRUCTURAL REHABILITATION LAYER IS INSTALLED. CUT AND REMOVE OBSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS.

REFERENCE: S-3-6-18

EXISTING CORRUGATED METAL PIPE OVERHEAD OBSTRUCTION REMOVAL

DETAIL

SLIP LINER ANNULAR SPACE GROUT COUPLING

DETAIL

HOST PIPE INVERT OBSTRUCTION REMOVAL

DETAIL

HOST PIPE INVERT REPAIR

NOTE:

1/8" STD STEEL HALF COUPLING

PROVIDE TEMPORARY LACING SUPPORT TO HOST PIPE DURING SLIP LINER INSTALLATION.

STEEL SLIP LINER

CEMENT MORTAR LINING

SLIP LINER ANNULAR SPACE GROUT

PORTS MADE AFTER SLIP LINER INSTALLED AND ANNULAR SPACE GROUTED

HOST PIPE SURFACE

AGGREGATE

INJECT GROUT TO ALL AROUND AFTER SEAL WELD PLUG

1" THD STEEL RECESSED PLUG

1" STD STEEL HALF COUPLING

Cement Mortar Liner

2. CONTACT GROUTING TO BE PERFORMED AFTER FINAL STRUCTURAL REHABILITATION LAYER IS INSTALLED.

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REFERENCE: 393670.C-13.dgn

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PATCH AND SLIP LINER LOADS DURING AS-NEEDED TO SUPPORT CONTINUOUS SLIP LINER INSTALLATION.

TO HOST PIPE AND FACILITATE PROVIE SMOOTH TRANSITION TAPER EDGE OF REPAIR TO BOTTOM 1/3 ONLY CONTACT GROUTING OF PRESSURE INJECTION VOID FILL EXTERNAL INJECT GROUT TO MAX GROUT INJECTION PRESSURE PER SPECIFICATIONS.

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SECTION

NOTES:
2. ALL CONCRETE SHALL BE CLASS AA WITH A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI
3. LIVE LOAD:
4. REINFORCING STEEL, AS EPOXY-COATED, COATING OF BAR REINFORCEMENT SHALL CONFORM TO AASHTO M317 (ASTM A775). FABRICATION AND HANDLING OF COATED REINFORCING STEEL SHALL CONFORM TO AASHTO M284 (ASTM A615). ALL REINFORCING STEEL IS EPOXY-COATED. COATING OF BAR CENTER.
5. ALL REINFORCING STEEL SHALT CONFORM TO AASHTO M317 (ASTM D3963).
6. INFLOW PIPE INVERT ELEVATIONS SHOULD BE GREATER THAN OR EQUAL TO 0.1 FOOT ABOVE THE OUTFLOW PIPE INVERT.
8. MANHOLE COVER SHALL BEAR ENTITY IDENTIFICATION AND AASHTO M 199 (ASTM C-478).
9. BASES, TAPERED SECTIONS, LIDS, GRADE RINGS, PRECAST CONCRETE PIPE SECTIONS, ELEVATION.
10. REFER TO NDOT STANDARD PLAN R-2.9.1 FOR DETAILS FOR 10:1 SLOPE FROM ALL DIRECTIONS TOWARD FLOWLINE. SHAPE FLOWLINE IN MANHOLE TO OUTLET PIPE, AND PROVIDE A SYSTEM FUNCTION (IF APPLICABLE).
11. REFER TO "ANCHOR BOLTS" ON SHEET S-1 FOR DETAILS FOR CONNECTING TO STEEL PIPE.
1. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH EDITION, 2014 WITH 2015 AND 2016 INTERIM REVISIONS.

2. ALL CONCRETE SHALL BE CLASS AA WITH A 28-DAY MINIMUM COMpressive STRENGTH OF 4000 PSI.

3. LOADING: LIVE LOAD: HL-93 LOADING.

4. REINFORCING STEEL: ASTM A615 GRADE 60 OR ASTM A706. DIMENSIONS RELATING TO BAR SPACING ARE CENTER TO CENTER.

5. ALL REINFORCING STEEL: EPOXY-COATED. COATING OF BAR ENDINGS ARE CENTER TO CENTER.


7. FLOWLINE IN MANHOLE TO OUTLET PIPE, AND PROVIDE A 10:1 SLOPE FROM ALL DIRECTIONS TOWARD FLOWLINE.

8. MANHOLE COVER SHALL BEAR ENTITY IDENTIFICATION AND SYSTEM FUNCTION (IF APPLICABLE).

9. SHAPE FLOW LINE IN MANHOLE TO OUTLET PIPE, AND PROVIDE A 10:1 SLOPE FROM ALL DIRECTIONS TOWARD FLOWLINE.

10. REFER TO NDOT STANDARD PLAN R-2.9.1 FOR DETAILS FOR CONNECTING TO HDPE PIPE.