

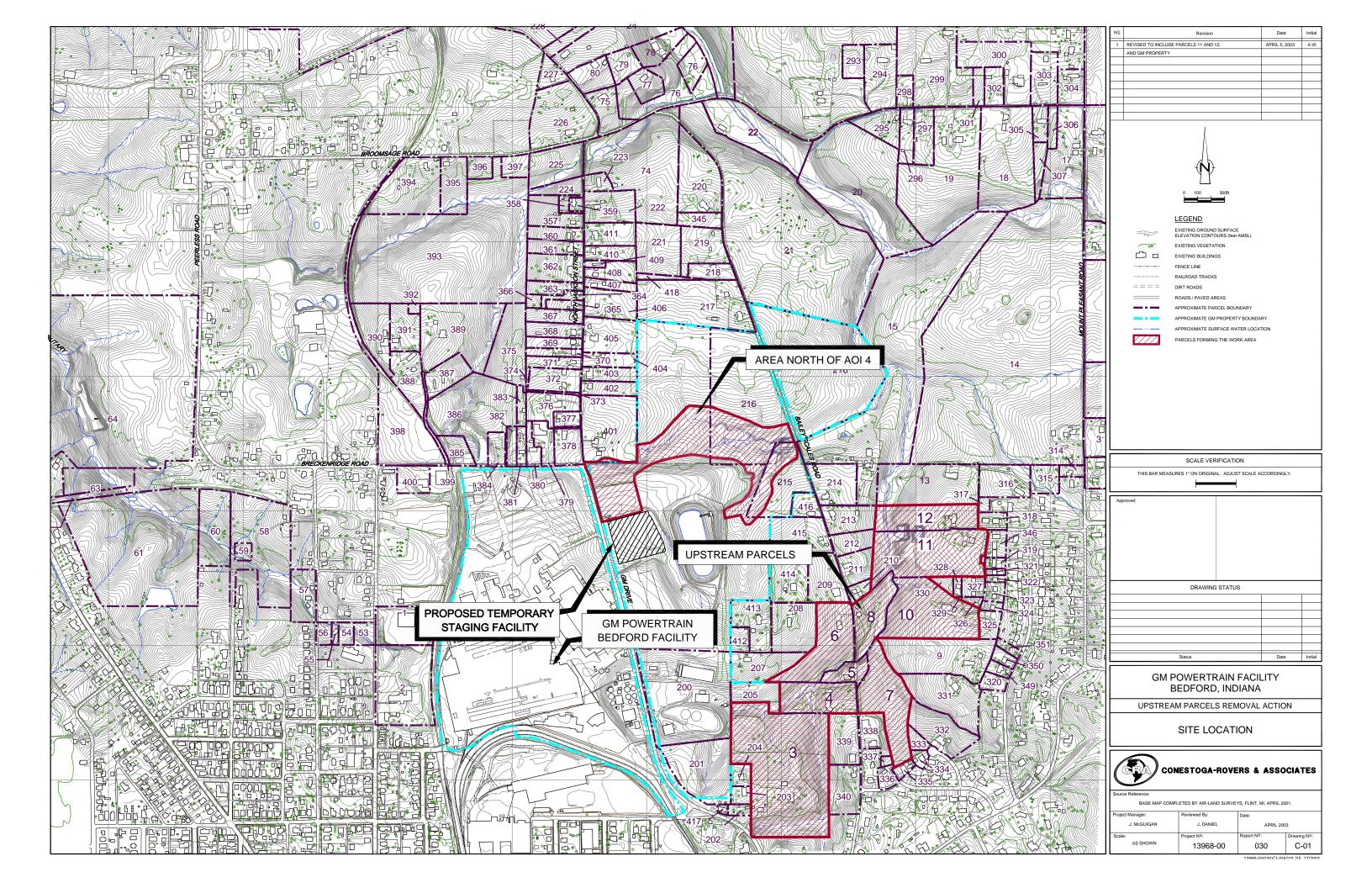
KEY MAI

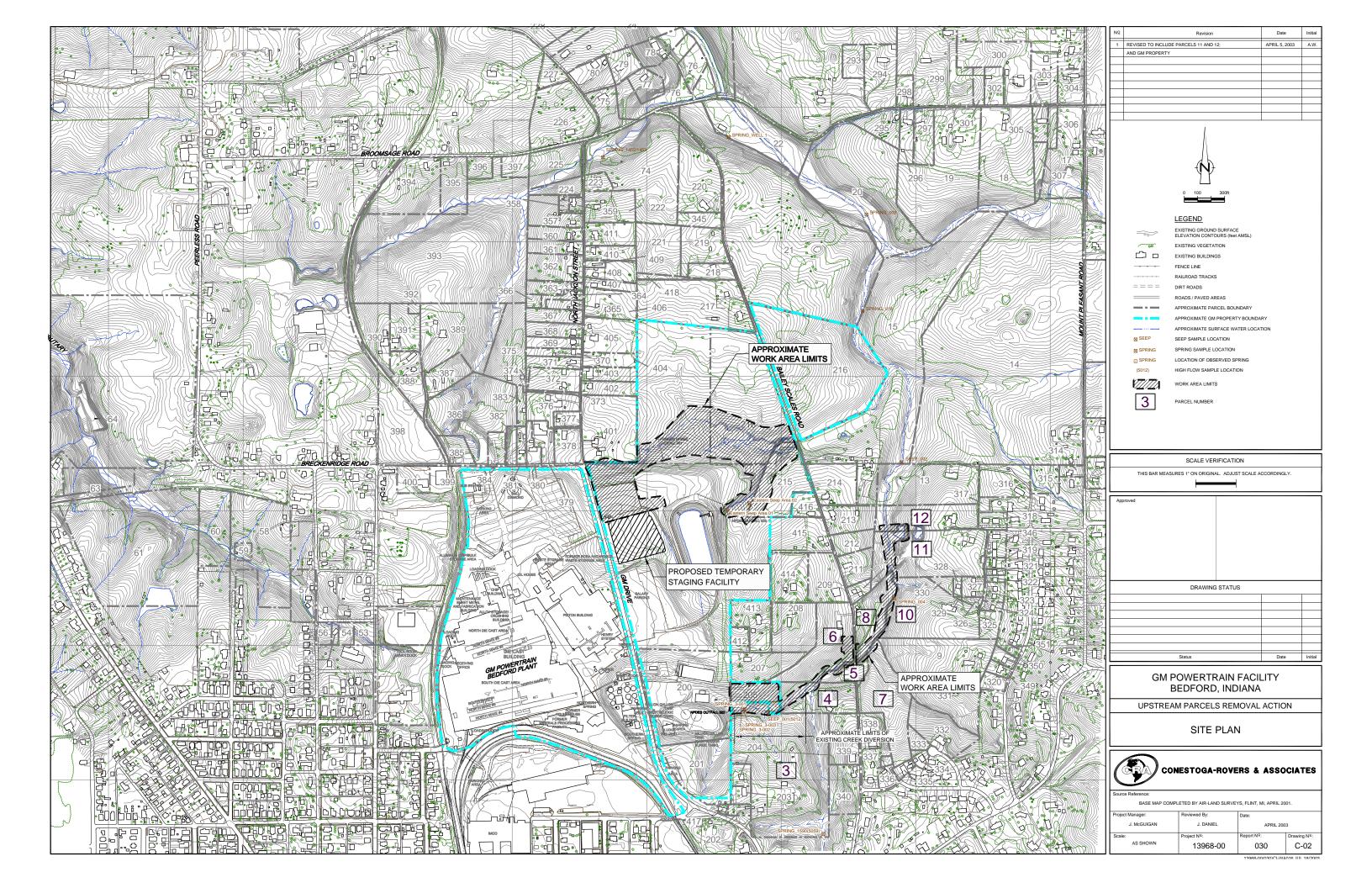
DRAWING INDEX

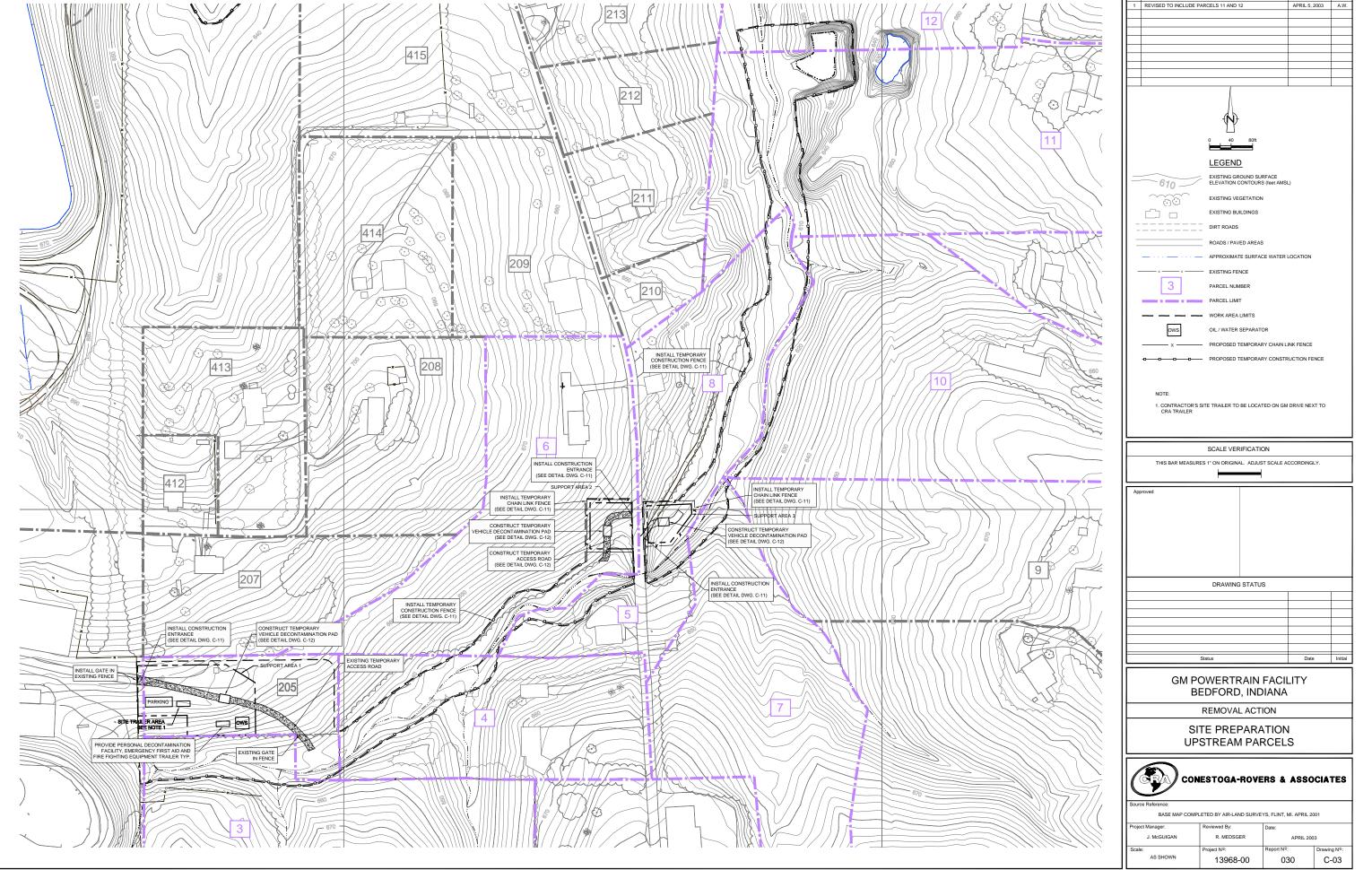
DWG. No.	REV. No.	DATE	<u>TITLE</u>
C-01	1	APRIL 2003	SITE LOCATION
C-02	1	APRIL 2003	SITE PLAN
C-03	1	APRIL 2003	SITE PREPARATION - UPSTREAM PARCELS
C-04	2	APRIL 2003	SITE WORKS I - UPSTREAM PARCELS SOIL EROSION AND SEDIMENT CONTROL
C-05	1	APRIL 2003	SITE WORKS II - UPSTREAM PARCELS STORMWATER MANAGEMENT
C-06	1	APRIL 2003	SITE WORKS III - UPSTREAM PARCELS EXCAVATION PLAN
C-07	0	APRIL 2003	SITE PREPARATION - AREA NORTH OF AOI 4
C-08	0	APRIL 2003	SITE WORKS IV - AREA NORTH OF AOI 4 SOIL EROSION AND SEDIMENT CONTROL
C-09	0	APRIL 2003	SITE WORKS V - AREA NORTH OF AOI 4 STORMWATER MANAGEMENT
C-10	1	APRIL 2003	SITE WORKS VI - AREA NORTH OF AOI 4 EXCAVATION PLAN
C-11	0	FEBRUARY 2003	DETAILS SHEET 1 OF 2
C-12	0	FEBRUARY 2003	DETAILS SHEET 2 OF 2
C-13	0	FEBRUARY 2003	PCB CONTAMINATED SOIL STAGING FACILITY PLAN
C-14	0	FEBRUARY 2003	PCB CONTAMINATED SOIL STAGING FACILITY SECTIONS

UPSTREAM PARCELS REMOVAL ACTION GM POWERTRAIN FACILITY BEDFORD, INDIANA

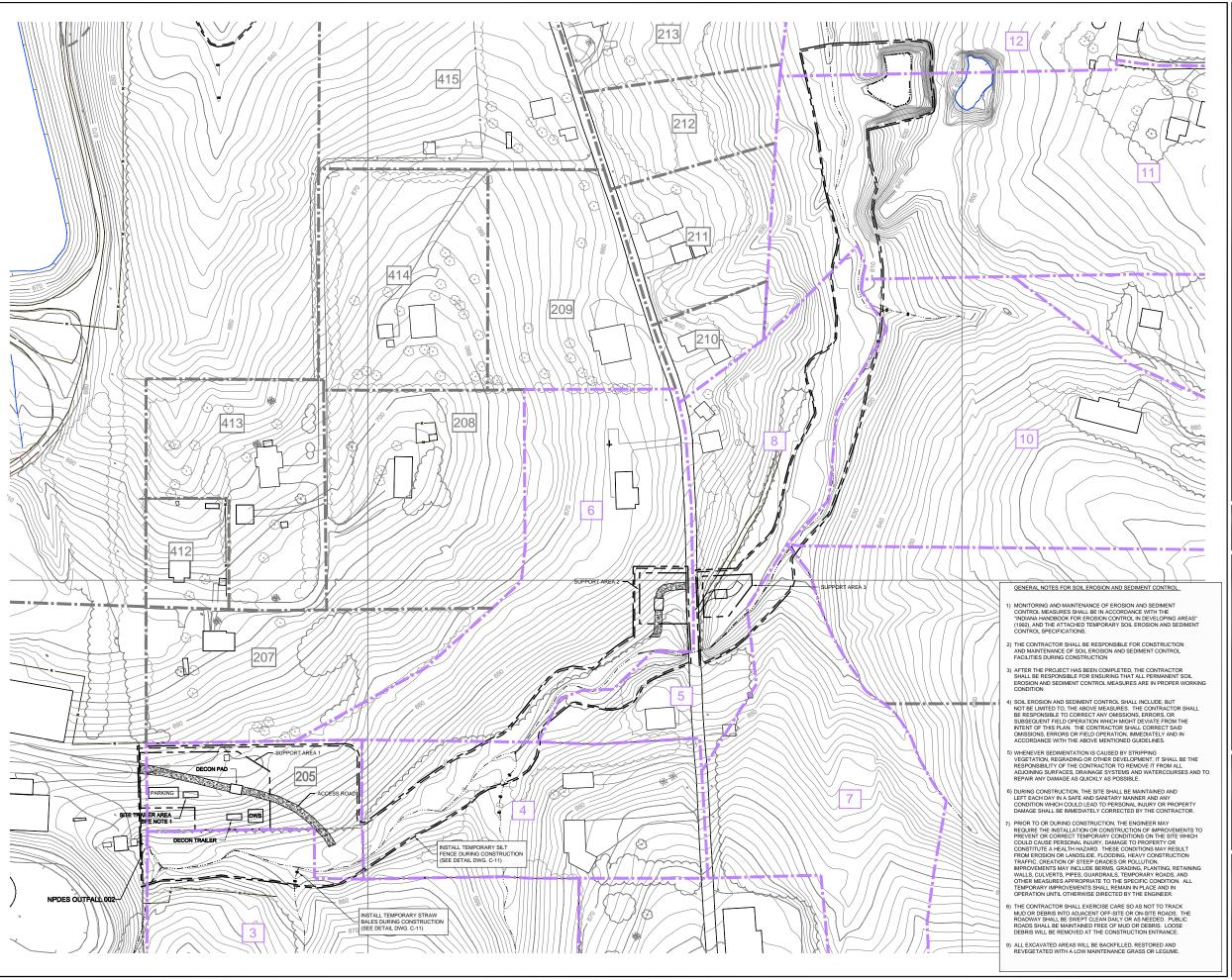


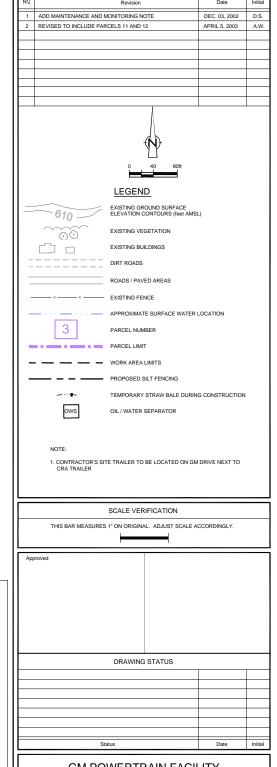






13968-00/030\CL-WA025_ILII_17/2003

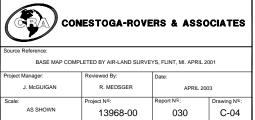


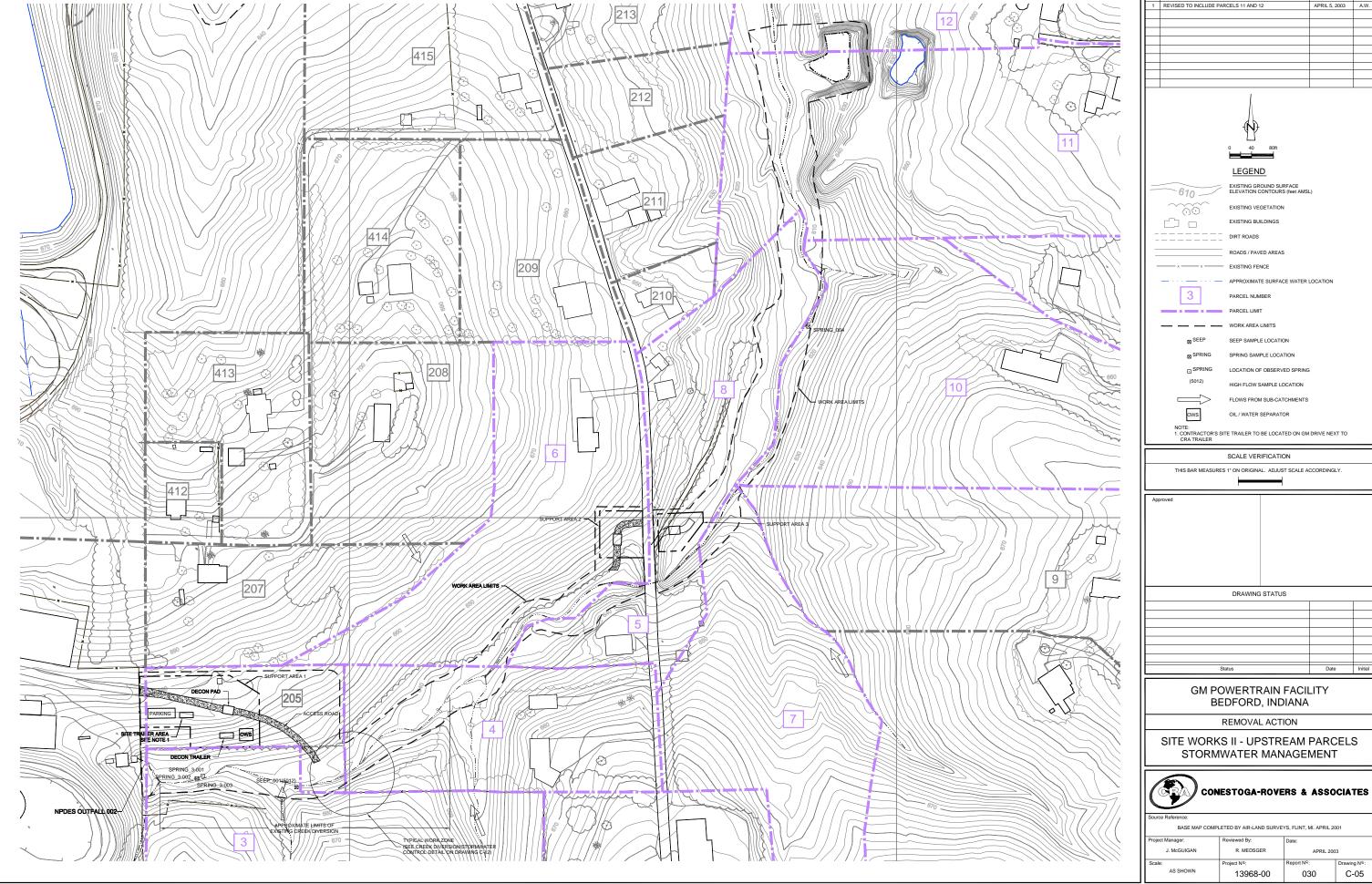


GM POWERTRAIN FACILITY BEDFORD, INDIANA

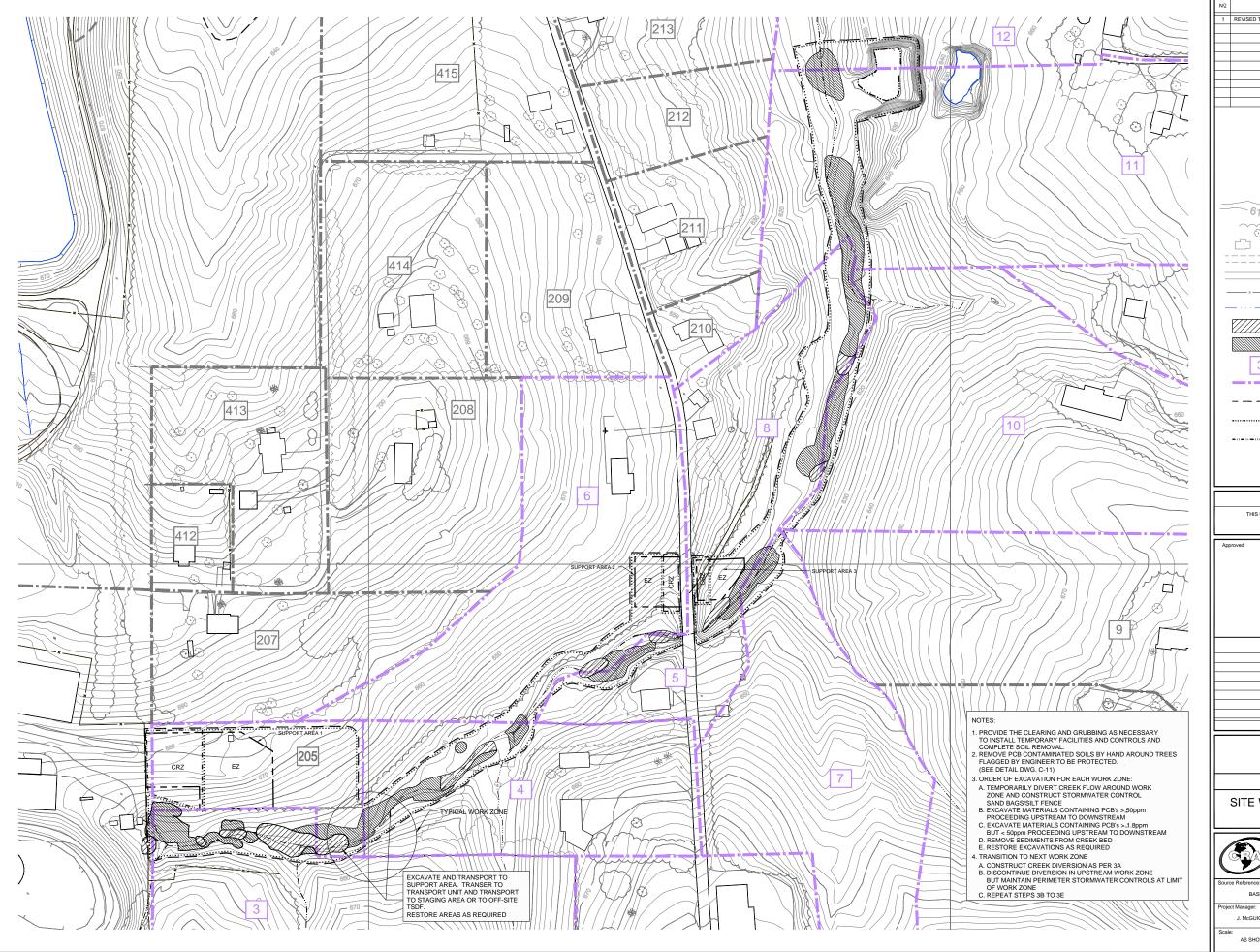
REMOVAL ACTION

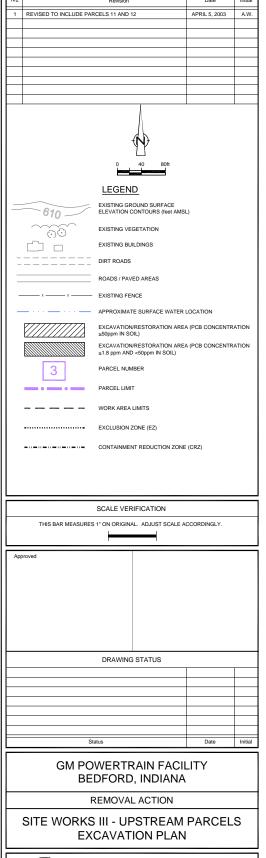
SITE WORKS I - UPSTREAM PARCELS SOIL EROSION AND SEDIMENT CONTROL





13968-00/030\CL-W/Δ027 II II 17/2003







Source Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

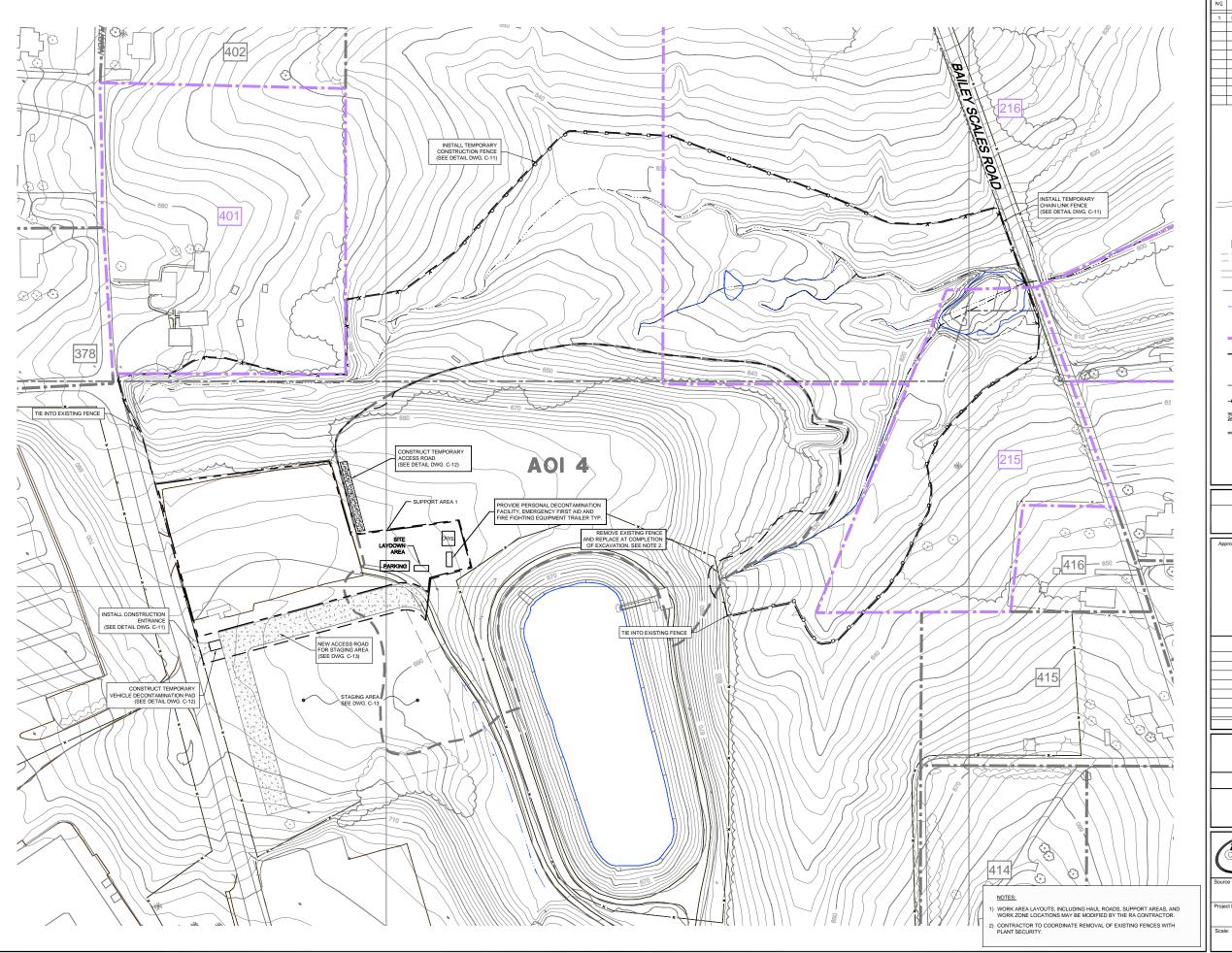
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

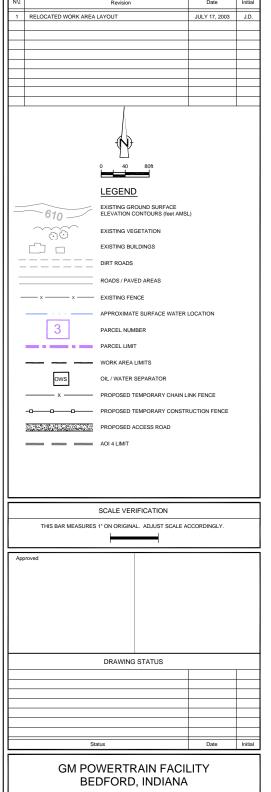
Project Manager: Reviewed By: Date:

J. McGUIGAN R. MEDSGER APRIL 2003

13968-00

030 C-06





UPSTREAM PARCELS REMOVAL ACTION

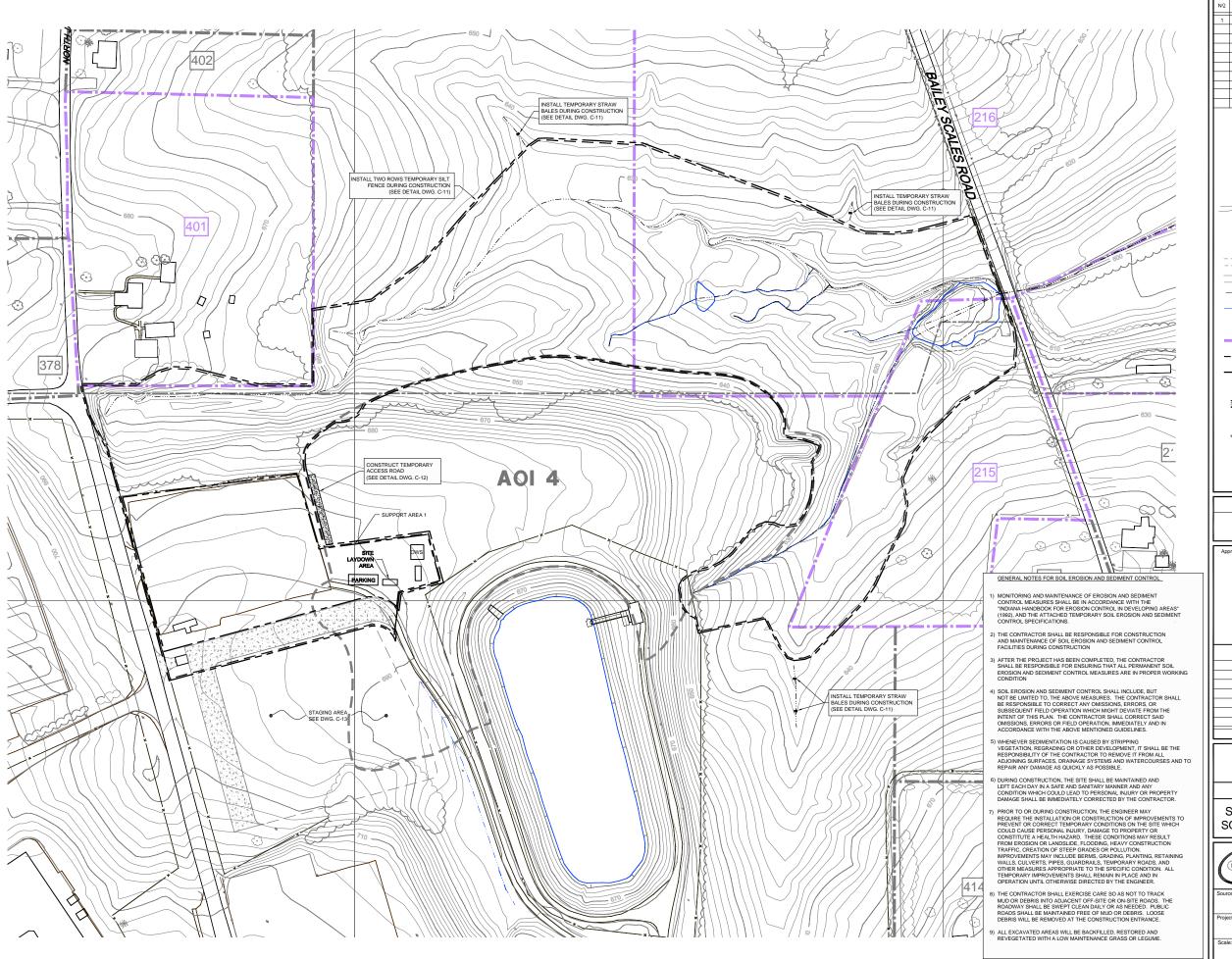
SITE PREPARATION AREA NORTH OF AOI 4

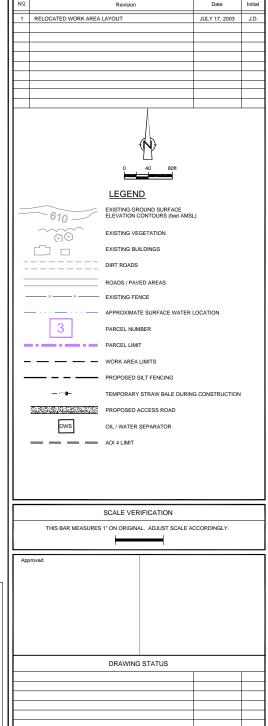


CONESTOGA-ROVERS & ASSOCIATES

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

t Manager:	Reviewed By:	Date:	
J. McGUIGAN	J. DANIEL	APRIL 200	3
:	Project Nº:	Report Nº:	Drawing Nº:
AS SHOWN	13968-00	030	C-07





GM POWERTRAIN FACILITY BEDFORD, INDIANA

UPSTREAM PARCELS REMOVAL ACTION

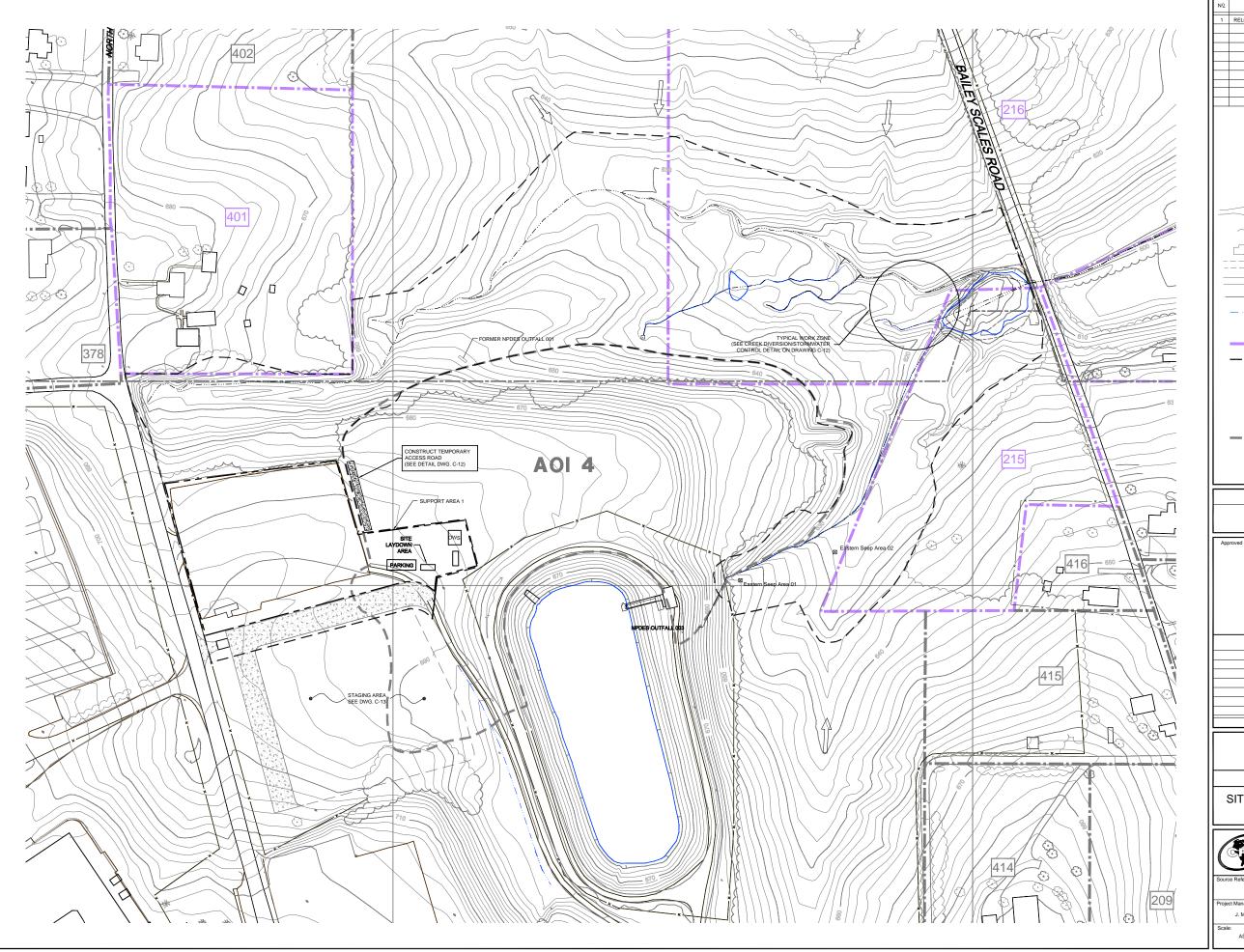
SITE WORKS IV - AREA NORTH OF AOI 4 SOIL EROSION AND SEDIMENT CONTROL

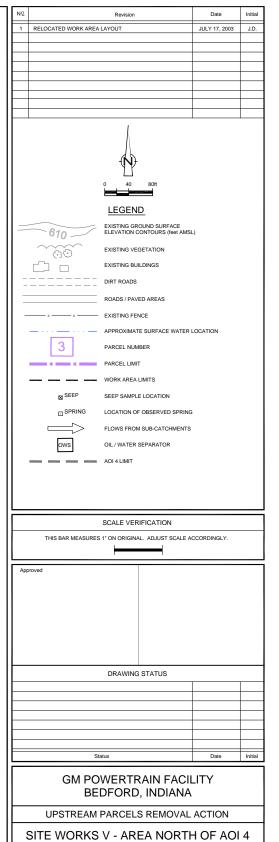


CONESTOGA-ROVERS & ASSOCIATES

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

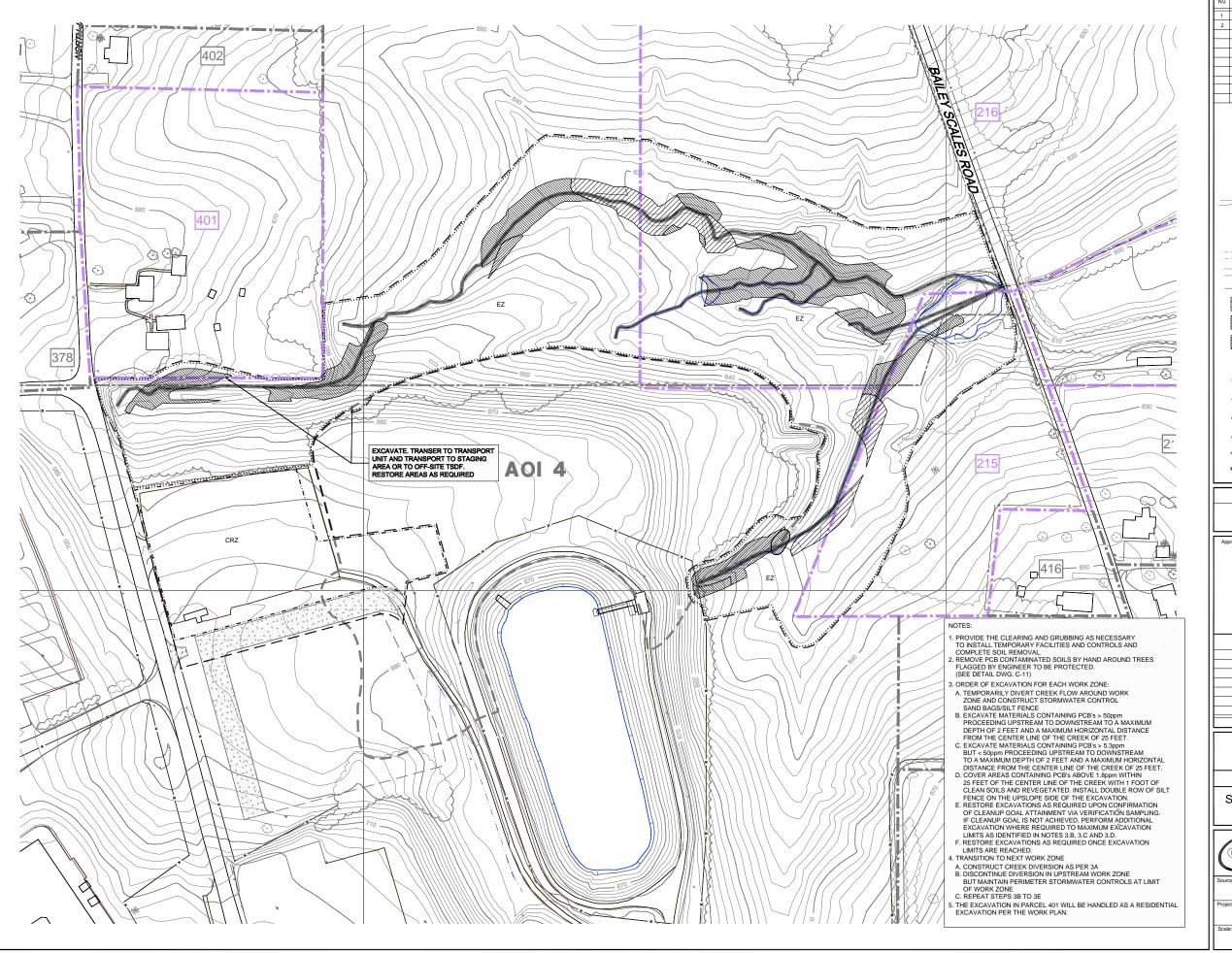
J. McGUIGAN J. DANIEL APRII 2003 AS SHOWN 13968-00 030 C-08

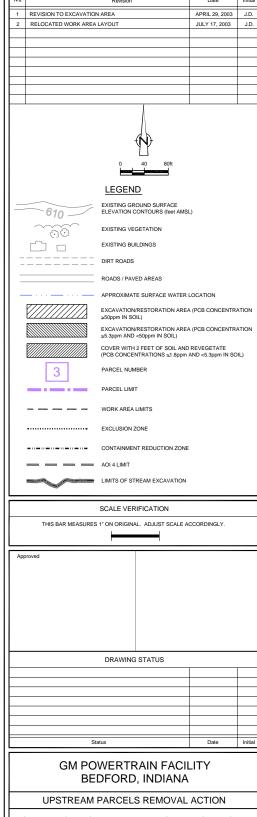




SITE WORKS V - AREA NORTH OF AOI 4 STORMWATER MANAGEMENT







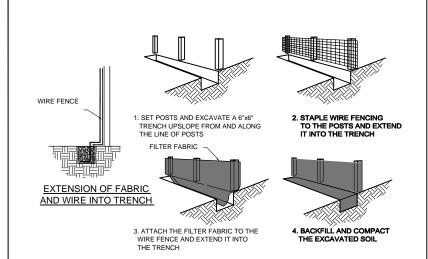
SITE WORKS VI - AREA NORTH OF AOI 4 **EXCAVATION PLAN**



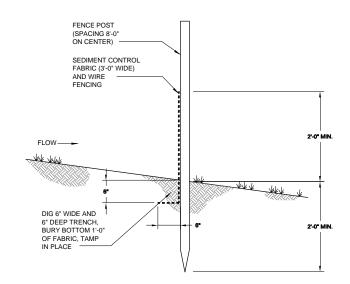
CONESTOGA-ROVERS & ASSOCIATES

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

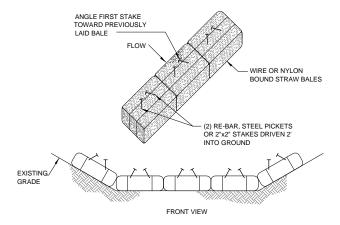
Project Manager:	Reviewed By:	Date:	
J. McGUIGAN	J. DANIEL	APRIL 2003	
Scale:	Project Nº:	Report Nº:	Drawing Nº:
AS SHOWN	13968-00	030	C-10



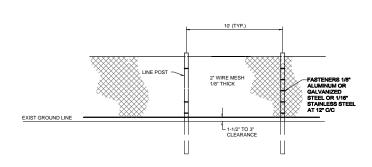
INSTALLATION SEQUENCE



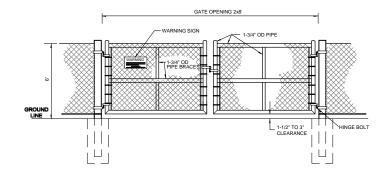
TEMPORARY CONSTRUCTION SILT FENCE DETAIL



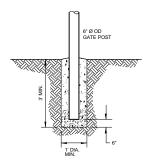
TEMPORARY CONSTRUCTION
STRAW BALE DETAIL
NTS



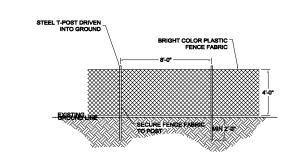
TEMPORARY CONSTRUCTION CHAIN LINK FENCE



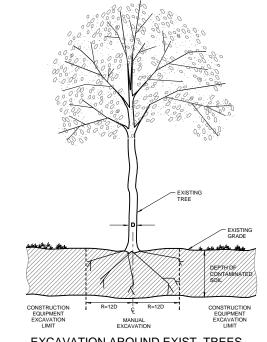
DOUBLE GATE / CONSTRUCTION ENTRANCE



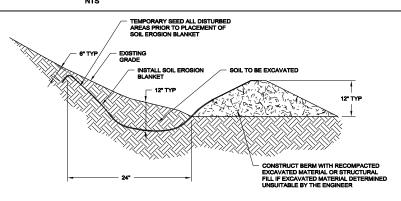
GATE POST DETAIL



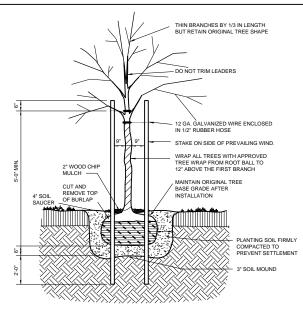
TEMPORARY CONSTRUCTION FENCE DETAIL



EXCAVATION AROUND EXIST. TREES NTS



SURFACE RUN-OFF DIVERSION SWALE DETAIL



NOTE:

- PAINT ALL CUTS TO TREE ROOTS AND BRANCHES OVER 1/4" WITH APPROVED TREE WOUND PAINT
- 2. DETAIL APPLIES TO TREES 3" CALIPER AND UNDER

TREE PLANTING SECTION NTS

SCALE VERIFICATION			
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.			
Approved			
DRAWING STATUS			
		_	

GM POWERTRAIN FACILITY BEDFORD, INDIANA

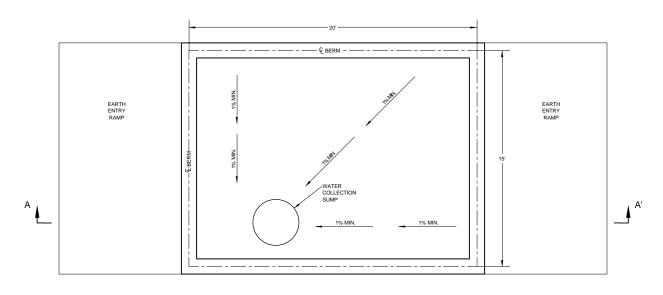
UPSTREAM PARCELS REMOVAL ACTION

DETAILS SHEET 1 OF 2

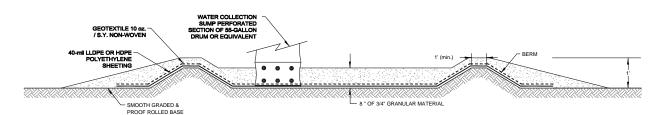


CONESTOGA-ROVERS & ASSOCIATES

968-00/030\CI-WΔ021 II II 17/2003



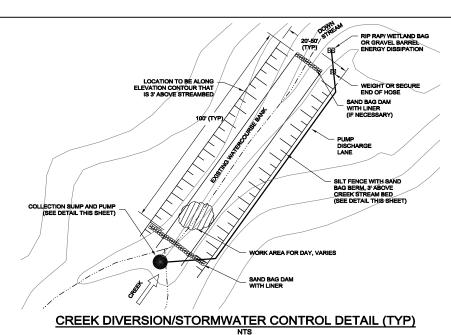
PLAN VIEW



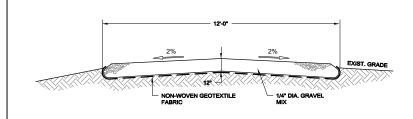
SECTION A-A'

- 1. TEMPORARY DECONTAMINATION PAD TO BE CONSTRUCTED IN SUITABLE LOCATION CLOSE TO WORK AREAS, AS REQUIRED.
- 2. TEMPORARY DECONTAMINATION PAD GRANULAR MATERIAL AND SEDIMENTS FROM DECONTAMINATING EXCAVATION EQUIPMENT TO BE BACKFILLED WITHIN ON-SITE CONSCLIDATION AREA.

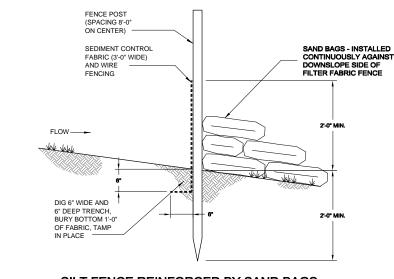
TYPICAL TEMPORARY VEHICLE **DECONTAMINATION PAD DETAIL**



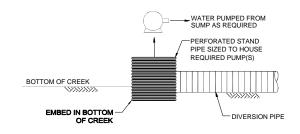
- INSTALL UPSTREAM SANDBAG (OR EQUIVALENT) CHECK DAM WITH GEOTEXTILE LINER ACROSS WATERCOURSE AND MATCH EXISTING BANKS.
- 2. INSTALL SO THAT FLOW UNDER OR BETWEEN BAGS IS PREVENTED BY OVERLAPPING THE STACKED BAGS AND ENTRENCHING THE BOTTOM SET.
- SAND BAG BARRIERS SHALL BE REGULARLY INSPECTED AND MAINTAINED, AND ANY BREAKS OR UNDERCUTTING IN THE BARRIER SHALL BE PROMPTLY REPAIRED.
- 4. REMOVE SEDIMENT BEHIND THE BARRIER WHEN IT ACCUMULATES.
- 5. REPLACE BROKEN BAGS IMMEDIATELY.
- 6. INSTALL INSTREAM PUMP OR INTAKE LINE OF REMOTE PUMP IN SUMP LOCATED UPSTREAM OF WORK AREA. DISCHARGE WATER THROUGH OR INTO AN ENERGY DISSIPATER INTO THE WATERCOURSE SUFFICIENTLY DOWNSTREAM TO PREVENT WATER FLOWING BACK INTO WORK AREA. (USE TEMPORARY SANDBAG BACKWATER DAM IF NECESSARY.)
- 7. THE TEMPORARY DIVERSION METHOD MAY BE REVISED AS NECESSARY BY THE CONTRACTOR. CONTRACTOR'S REVISED DETAILS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY ENGINEER AND PERMITTING AGENCIES PRIOR TO CONSTRUCTION.
- 8. COLLECT SEEPAGE INTO EXCAVATION AREA. TRANSPORT TO THE WASTEWATER TREATMENT SYSTEM.



CONSTRUCTION ACCESS ROAD DETAIL NTS



SILT FENCE REINFORCED BY SAND BAGS



- A. SIZE THE DIVERSION PIPE, SUMP AND STANDPIPE IN THE FIELD.
- B. THE TEMPORARY DIVERSION METHOD MAY BE REVISED AS NECESSARY BY THE CONTRACTOR. CONTRACTOR'S REVISED DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.

 $\frac{\mathsf{TYPICAL}\;\mathsf{SUMP}\;\mathsf{PIT}}{\mathsf{NTS}}$

Date

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS			
Status		Date	Initial

GM POWERTRAIN FACILITY BEDFORD, INDIANA

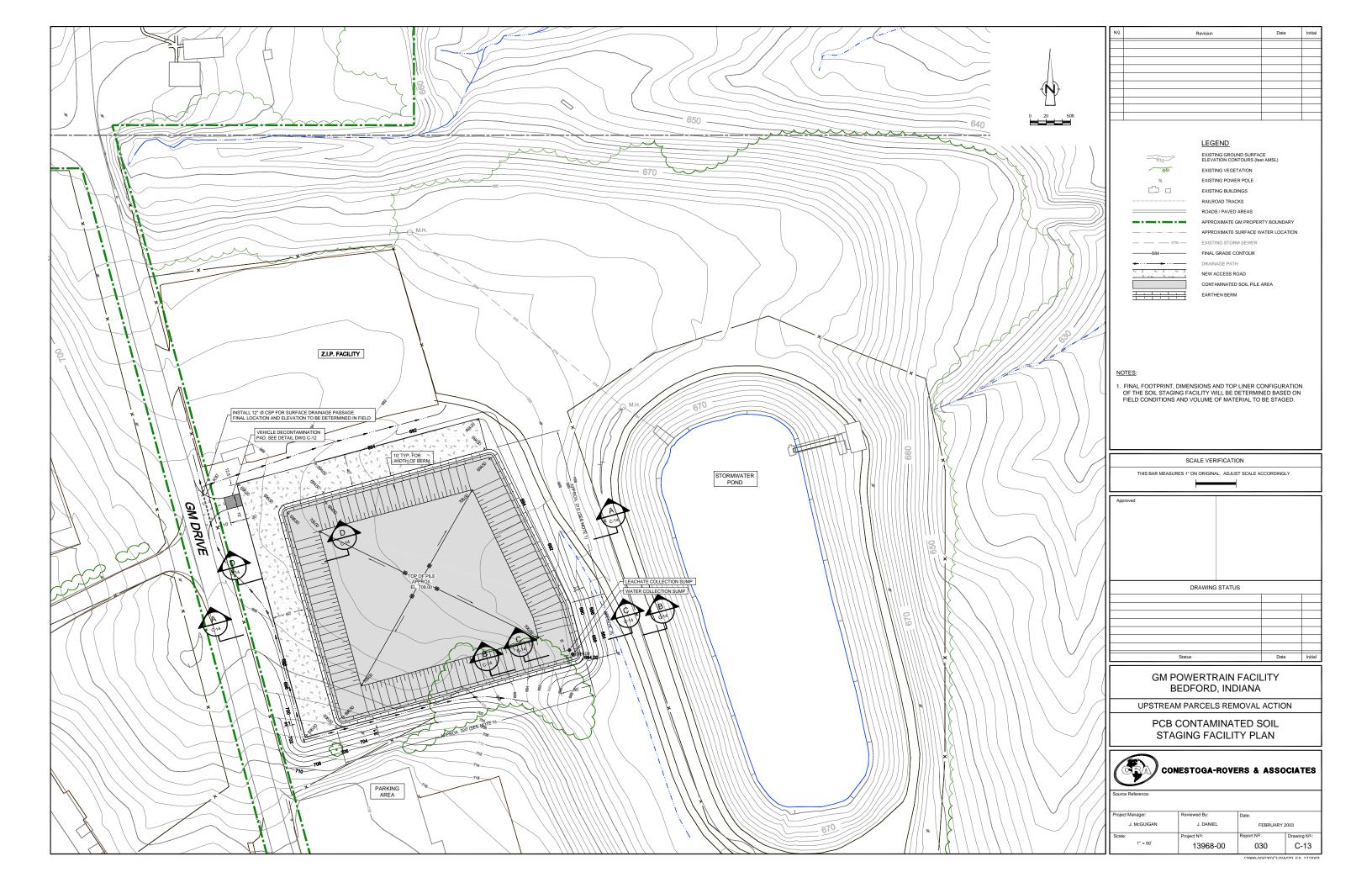
UPSTREAM PARCELS REMOVAL ACTION

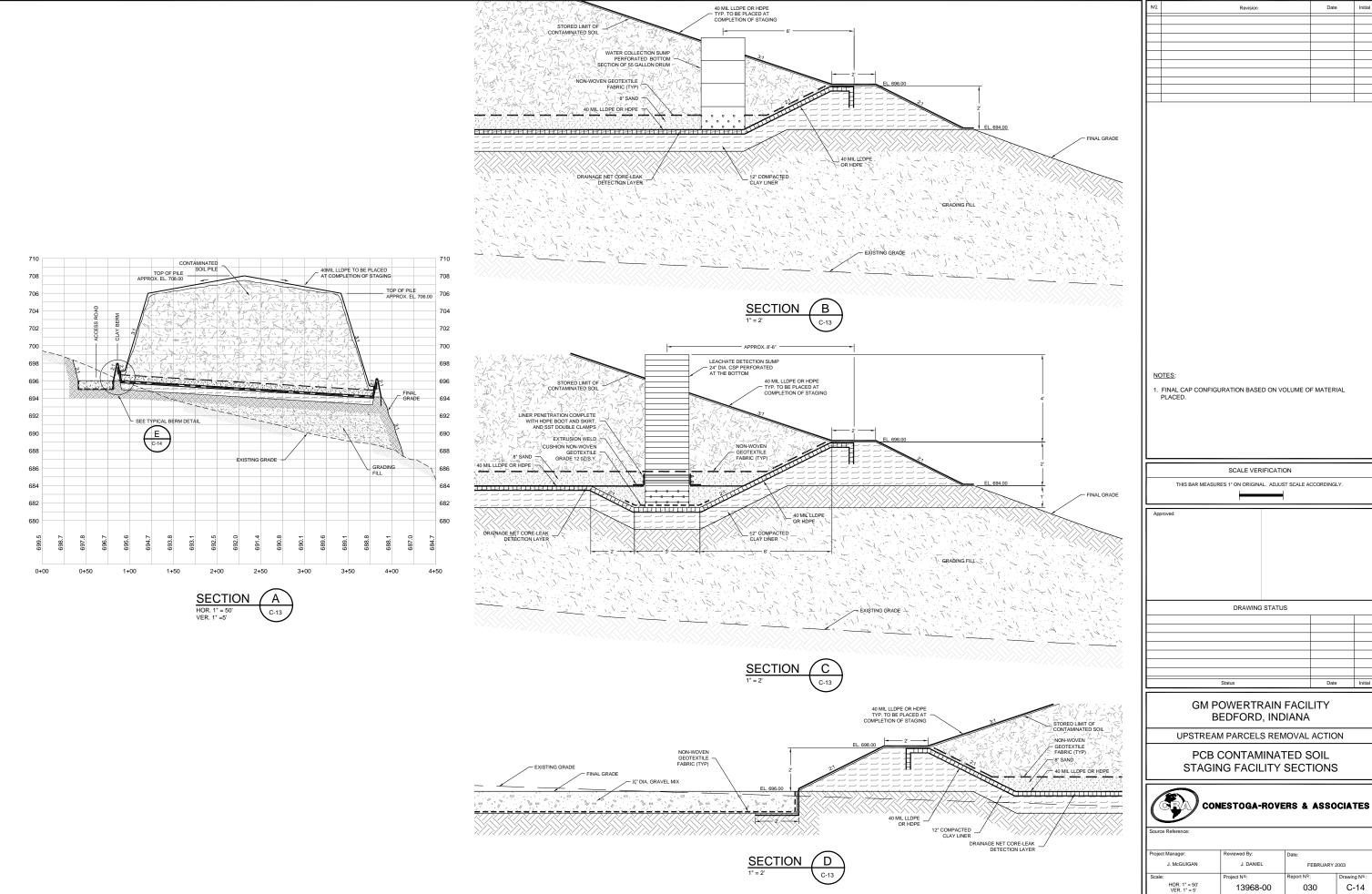
DETAILS SHEET 2 OF 2



CONESTOGA-ROVERS & ASSOCIATES

J. McGUIGAN J. DANIEL FERRIJARY 2003 C-12 13968-00 030





C-14