



KEY MAP

SOURCE: USGS QUADRANGLE MAP:  
TOLEDO, OHIO-MICHIGAN

# SITE REMEDIATION AS RECORDED - JULY 2001

## TOLEDO, OHIO

### DRAWING INDEX

DRAWING NUMBER	FILE NUMBER	DATE	TITLE
<b>GENERAL</b>			
G-01	12609-09(018)GN-WA005	JULY 2001	COVER SHEET/DRAWING INDEX
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G-03	12609-09(018)GN-WA002	JULY 2001	CIVIL, STRUCTURAL AND ARCHITECTURAL LEGEND
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<b>CIVIL</b>			
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C-03	12609-09(018)CI-WA006	JULY 2001	FORMER STORMWATER POND EXISTING CONDITIONS
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C-16	12609-09(018)CI-WA009	JULY 2001	SECTIONS SHEET 3 OF 8
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C-19	12609-09(018)CI-WA009	JULY 2001	SECTIONS SHEET 6 OF 8
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<b>MECHANICAL</b>			
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M-02	12609-09(018)ME-WA001	JULY 2001	MECHANICAL
M-03	12609-09(018)ME-WA002	JULY 2001	MECHANICAL DETAIL
<b>STRUCTURAL</b>			
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<b>ELECTRICAL</b>			
E-01	12609-09(018)EL-NF001	JULY 2001	ELECTRICAL SITE PLAN
E-02	12609-09(018)EL-NF002	JULY 2001	ELECTRICAL INSTALLATION WET WELL EAST (WEST) ELECTRICAL PANEL
E-03	12609-09(018)EL-NF003	JULY 2001	WET WELL EAST (WEST) ELECTRICAL PANEL
E-04	12609-09(018)EL-NF004	JULY 2001	WET WELL EAST ELECTRICAL PANEL SCHEMATIC WIRING DIAGRAM
E-05	12609-09(018)EL-NF005	JULY 2001	WET WELL WEST ELECTRICAL PANEL SCHEMATIC WIRING DIAGRAM

# ABBREVIATIONS

<p>AAP ALARM ANNUNCIATOR PANEL AAV AUTOMATIC AIR VENT AB ANCHOR BOLT ABAN ABANDON(ED) ABS ABSOLUTE ABV ABOVE AC ALTERNATING CURRENT ACCUUM ACCUMULATOR ACI AMERICAN CONCRETE INSTITUTE ACN/ AUTOMATIC CONTROL VALVE ACOUS ACoustical ACP ASPHALTIC CONCRETE PAVING ACTR ACTUATOR ADDL ADDITIONAL ADDUM ADDENDUM ADH ADHESIVE ADJ ADJUSTABLE ADJC ADJACENT ADPTR ADAPTER AF AFTER FILTER AGGR AGGREGATE AHR ANCHOR AHU AIR HANDLING UNIT AL ALUMINUM ALM ALARM ALT ALTERNATE AMB AMBIENT AMSL ABOVE MEAN SEA LEVEL ANLG ANALOG AP ACID PROOF APPROX APPROXIMATELY APX APPENDIX APT APARTMENT ARCH ARCHITECT(URAL) ASL ABOVE SEA LEVEL ASPH ASPHALT(IC) ASTM AMERICAN SOCIETY FOR TESTING ASU AND MATERIALS ASW AIR SUPPLY UNIT ASW AUXILIARY SWITCH ASYM ASYMMETRICAL AT AIR TIGHT ATS AUTOMATIC TRANSFER SWITCH AVE AVENUE AW AMERICAN WIRE GAGE AZ AZIMUTH</p>	<p>CENTRIFUGAL CO COAXIAL CABLE COL COLUMN COMM COMMUNICATION CONC CONCRETE CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUOUS (CONTINUATION) COORD COORDINATE COV COVER CP CANDLE POWER CONCRETE PIPE CP CONTROL PANEL CPL COUPLING CRG CENTRIC REDUCER CRCMF CIRCUMFERENCE CRN CROWN CRS COLD ROLLED STEEL CS CARBON STEEL CSP CONCRETE SEWER PIPE CT COOLING TOWER CTV CABLE TELEVISION CU COPPER CV CONTROL VALVE CW COMPLETE WITH CW COLD WATER CWP CIRCULATING WATER PIPE CYL CYLINDER</p>	<p>FXTR FIXTURE G GAS GAGE GAGE GAL GALLON GALV GALVANIZED GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR GL GLASS GLV GLOBE VALVE GLZ GLAZING GND GROUND GOVT GOVERNMENT GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GAS GALLONS PER SECOND GR GRADE (GRADING) GR LN GRADE LINE GRL GRILLE GRTG GRATINGS GASKET GASKET GSNK GOOSENECK GT COMPLETE WITH GT GROUT GTV GATE VALVE GUTTER GUTTER GVL GRAVEL GWH GAS WATER HEATER</p>	<p>LT LIGHT LTG LIGHTING LTG PNL LIGHTING PANEL LV LOW VOLTAGE LVL LEVEL(ER) LVR LOWER LWC LIGHTWEIGHT CONCRETE</p>	<p>M METER MA MILLIAMPERE MACH MACHINE MAINT MAINTENANCE MAN MANUAL MAS MASONRY MAU MAKE-UP AIR UNIT MAX MAXIMUM MBTU THOUSAND BRITISH THERMAL UNITS MC MOMENTARY CONTACT MCC MOTOR CONTROL CENTER MD MANUAL DAMPER MECH MECHANICAL MET METAL MEZZ MEZZANINE MFG MANUFACTURING MFR MANUFACTURER MGD MILLION GALLONS PER DAY MH MANHOLE MHT MEAN HIGH TIDE MI MALLEABLE IRON MI MILE MID MIDDLE MIN MINIMUM MIN MINUTE MISC MISCELLANEOUS MJ MECHANICAL JOINT KK MARK RUBER RUBER RC REINFORCED CONCRETE RD ROAD RD ROOF DRAIN RDC REDUCER REC RECESSED RECIRC RECIRCULATE RECT RECTANGULAR REF REFERENCE REINF REINFORCE(D)(X)MENT REM REMOVABLE REQD REQUIRED RESIL RESILIENT RETURN RETURN RF RAISED FACE RFG ROOFING RGLTR REGULATOR RH RELATIVE HUMIDITY RH RIGHT HAND RHB ROUND HEAD BOLT RLF RELIEF RLG RAILING RM ROOM RND ROUND RO ROUGH OPENING ROW RIGHT-OF-WAY RPM REVOLUTIONS PER MINUTE RPS REVOLUTIONS PER SECOND RR RAILROAD RV RELIEF VALVE RV ROOF VENT</p>	<p>PREFAB PREFABRICATED PREFIN PREFINISHED PRELIM PRELIMINARY PRI PRIMARY PRKG PARKING PROJ PROJECT PROP PROPERTY PRV PRESSURE REDUCING VALVE PRES PRESSURE RELIEF VALVE PRESTRESSED CONCRETE PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE PSIG POUNDS PER SQUARE INCH GAGE PST POINT OF SPIRAL TANGENT PT PIPE TAP PT POINT OF TANGENCY PTD PAINTED PV PAVED PVC POINT OF VERTICAL CURVE PVC POLYVINYL CHLORIDE PVG PAVING PVT POINT OF VERTICAL INTERSECTION PVMT PAVEMENT PVT POINT OF VERTICAL TANGENCY PWR POWER</p>	<p>SURV SURVEY SV SAFETY VALVE SW SIDEWALK SWP SAFE WORKING PRESSURE SWR SEWER SYM SYMMETRIC SYMM SYMMETRICAL SYS SYSTEM</p>	<p>UTIL UTILITY UV ULTRAVIOLET V SANITARY VENT V VALVE V VOLT VAC VACUUM VAC VOLTS ALTERNATING CURRENT VAP VAPOR VB VALVE BOX VEH VEHICLE VEL VELOCITY VERT VERTICAL VF VARIABLE FREQUENCY DRIVE VFL VERY FLEXIBLE POLYETHYLENE VIB VIBRATION VIN VINYL VISC VISCOSITY VTR VENT TO ROOF VOL VOLUME VP VACUUM PUMP</p>	<p>W WASTE W WATT W WEST W/O WITHOUT WW WALL TO WALL WB WET BULB WC WATER CLOSET WD WIDTH WD WOOD WDW WINDOW WF WIDE FLANGE WG WATER GAGE WHA WATER HAMMER ARRESTOR WHTR WATER HEATER WI WROUGHT IRON WL WATER LINE WL WATER LEVEL WLD WELDED WP WORKING POINT WPR WORKING PRESSURE WR WATER RESISTANT WT WEIGHT WTR WATER WTRPRF WATERPROOF(ING) WW WASTE WATER WWF WELDED WIRE FABRIC</p>	<p>U HEAT TRANSFER UNIT UG UNDERGROUND UH UNIT HEATER ULT ULTIMATE UN UNION UNEX UNEXCAVATED UNFIN UNFINISHED UNIF UNIFORM UNV UNIVERSAL UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY</p>	<p>X ARM CROSS ARM X SECT CROSS SECTION XFMR TRANSFORMER XFR TRANSFER</p>	<p>YD YARD DRAIN YH YARD HYDRANT</p>
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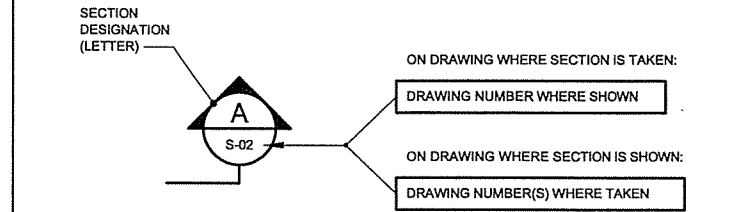
NS	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

NOTES:  
1. THIS IS A STANDARD LEGEND LIST, THEREFORE SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LIST AND NOT ON THE DRAWINGS.  
2. CONTACT ENGINEER FOR ABBREVIATIONS NOT LISTED.

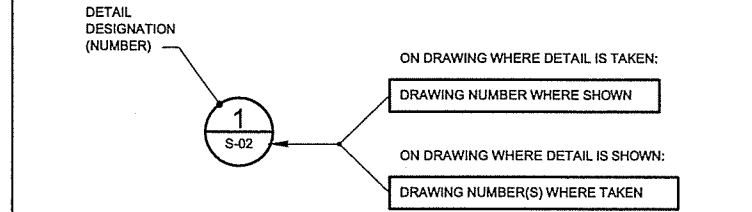
## STANDARD DETAIL DESIGNATION



## SECTION DESIGNATION



## DETAIL DESIGNATION



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

DRAWING STATUS	
Approved	
Status	Date

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION - AS RECORDED  
ABBREVIATIONS AND  
DETAIL DESIGNATIONS

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:

Project Manager:	Reviewed By:	Date:
D. WAGNER	C. HEBERT	JULY 2001
Scale:	Project No.:	Report No.:
NONE	12609-09	018

Drawing No.: G-01AR

**TOPOGRAPHICAL**

**MUNICIPAL SYMBOLS**

	PROPERTY BOUNDARY		STANDARD IRON BAR		ROAD SIGN
	SITE BOUNDARY		IRON BAR		UTILITY POLE
	FENCE		ROUND IRON BAR		GUY ANCHOR
	DITCH, SWALE		MONUMENT/BENCHMARK		GAS VALVE
	GROUND CONTOUR		CUT CROSS		TELEPHONE PEDESTAL
	GROUNDWATER ELEVATION CONTOUR (PIEZOMETRIC OR POTENTIOMETRIC SURFACE)		IRON PIPE		TELEPHONE CHAMBER
	SOIL EXCAVATION CONTOUR		NAIL/CONTROL		HAND HOLE
	FINAL CONTOUR		SANITARY MANHOLE		ELECTRICAL MANHOLE
	LIMIT OF REFUSE DISPOSAL		STORM MANHOLE		LIGHT STANDARD
	SLOPED SURFACE (TOP OF BANK)		CATCHBASIN		DECIDUOUS TREE AND DIAMETER
	BUILDING		DOUBLE CATCHBASIN		CONIFEROUS TREE AND DIAMETER
	RAILWAY		WATER VALVE		SHRUB AND DIAMETER
	SHORELINE		VALVE CHAMBER		TREE STUMP AND DIAMETER
	ACCESS ROAD		CURB STOP		DECIDUOUS CLUMP TREES AND DIAMETER
	WATERMAIN		HYDRANT		CONIFEROUS CLUMP TREES NUMBER AND DIAMETER
	SANITARY SEWER		DITCH INLET CATCHBASIN		
	STORM SEWER				
	GAS MAIN				
	TELEPHONE LINE				
	ELECTRIC CABLE				
	UNDERGROUND CONDUIT				
	OVERHEAD CABLE, WIRE				

**PROPOSED MUNICIPAL SYMBOLS**

	PROPOSED SANITARY MANHOLE		PROPOSED VALVE CHAMBER
	PROPOSED STORM MANHOLE		PROPOSED HYDRANT
	PROPOSED CATCHBASIN		PROPOSED DOUBLE CATCHBASIN
	PROPOSED WATER VALVE		PROPOSED UTILITY POLE

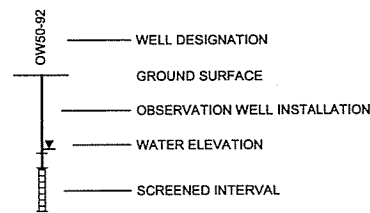
**MONITORING**

	BOREHOLE		TEST PIT
	SURFACE SOIL SAMPLE		INJECTION WELL
	STANDPIPE		GAS PROBE
	OBSERVATION/MONITORING WELL		GAS VENT
	SURFACE WATER MONITORING LOCATION		HAND AUGER BORING LOCATION
	WATER SUPPLY WELL		MULTI-PHASE EXTRACTION WELL
	PIEZOMETER		VAPOR EXTRACTION WELL
	BUNDLE PIEZOMETER		AIR SPARGING WELL
	EXTRACTION WELL		OUTFALL LOCATION

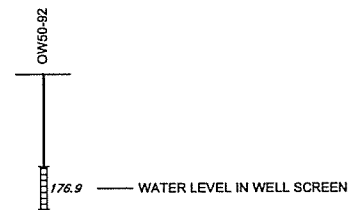
**PROPOSED MONITORING**

	PROPOSED BOREHOLE		PROPOSED TEST PIT
	PROPOSED SURFACE SOIL SAMPLE		PROPOSED INJECTION WELL
	PROPOSED STANDPIPE		PROPOSED GAS PROBE
	PROPOSED OBSERVATION/MONITORING WELL		PROPOSED GAS VENT
	PROPOSED SURFACE WATER MONITORING LOCATION		PROPOSED HAND AUGER BORING LOCATION
	PROPOSED WATER SUPPLY WELL		PROPOSED MULTI-PHASE EXTRACTION WELL
	PROPOSED PIEZOMETER		PROPOSED VAPOR EXTRACTION WELL
	PROPOSED BUNDLE PIEZOMETER		PROPOSED AIR SPARGING WELL
	PROPOSED EXTRACTION WELL		PROPOSED OUTFALL LOCATION

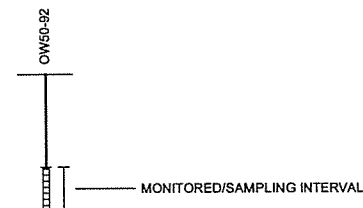
**GEOLOGIC & HYDROGEOLOGIC SECTIONS**



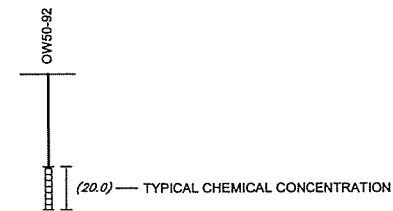
**TYPICAL WELL INSTALLATION**



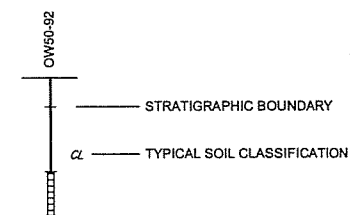
**MEASURED WATER LEVEL**



**MONITORING OR SAMPLING LOCATION**



**MEASURED CHEMICAL CONCENTRATION**

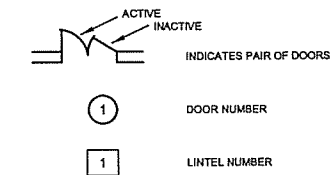


**SOIL CLASSIFICATIONS**

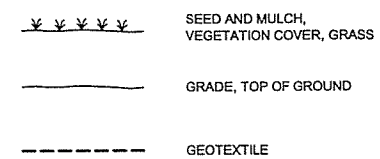
**MATERIAL**

	CLAY
	SILT
	SAND
	SEDIMENT
	SAND AND GRAVEL
	CRUSHED STONE
	FILL
	WASTE, REFUSE
	RIPRAP
	BEDROCK
	SWAMP
	TOPSOIL
	ASPHALT
	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK MASONRY
	RIGID INSULATION
	BATT INSULATION
	WOOD, ROUGH NON-CONTINUOUS
	ROCK SURFACE
	EARTH SURFACE
	GRATING

**ARCHITECTURAL**



**MISCELLANEOUS**



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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 2. CONTACT ENGINEER FOR ABBREVIATIONS AND SYMBOLS NOT LISTED.

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

Approved

DRAWING STATUS

Status	Date	Initial

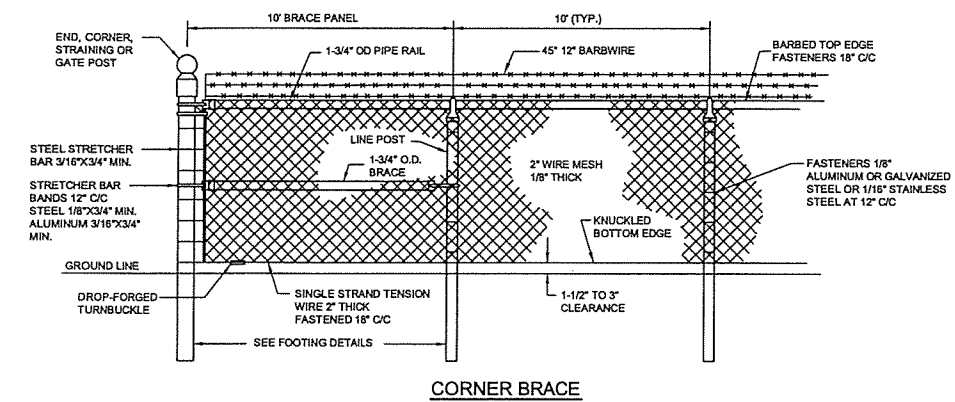
GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO  
 SITE REMEDIATION - AS RECORDED  
 CIVIL, STRUCTURAL AND  
 ARCHITECTURAL LEGEND

Source Reference:

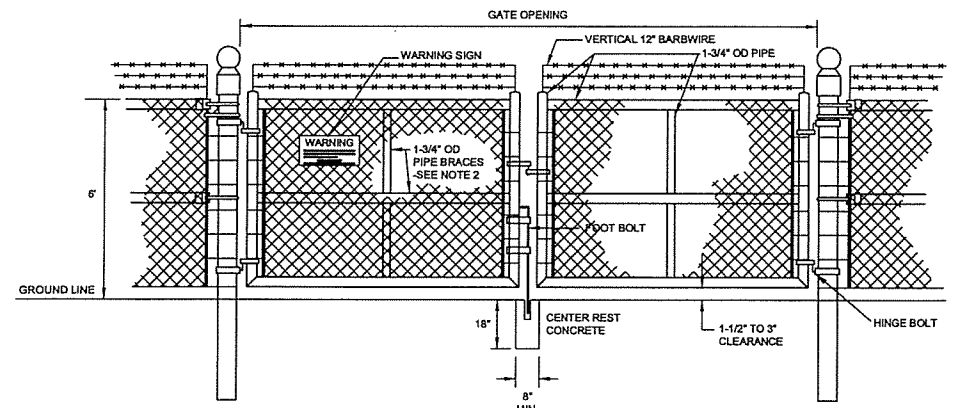
Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: NONE	Project No: 12609-09	Report No: 018
		Drawing No: G-02AR



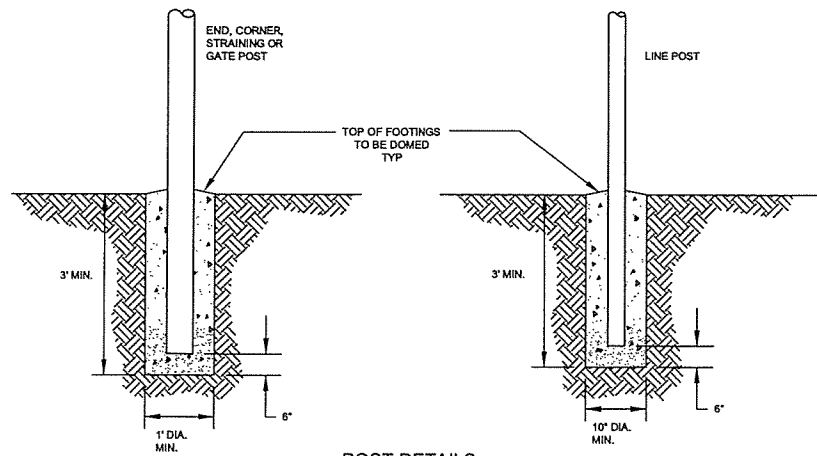




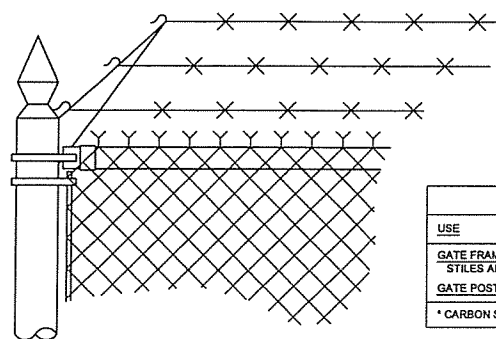
CORNER BRACE



DOUBLE GATE



POST DETAILS



BARBED WIRE CORNER

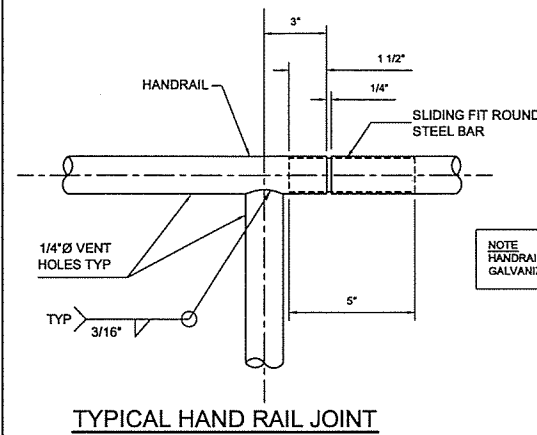
POST AND RAIL SIZES - FENCE			
USE	FABRIC HEIGHT	O.D.*	LBS/FT
INTERMEDIATE POSTS	BELOW 6'	2-1/2"	3.65
CORNER, END, GATE AND BRACE POSTS	BELOW 6'	3"	5.79
RAILS	ALL	1-3/4"	2.27

\* CARBON STEEL PIPE - ASTM A-20, SCH 40

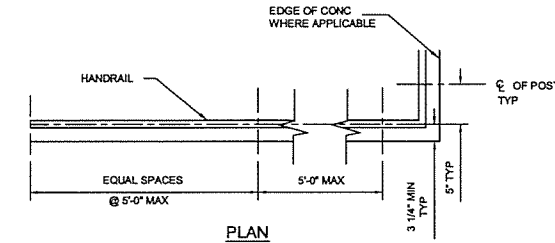
POST AND RAIL SIZES - GATES						
USE	LEAF WIDTH		FABRIC HGT.	O.D.*		LBS/FT
	DOUBLE	MANGATE		DOUBLE	MANGATE	
GATE FRAME, STILES AND RAILS	2x8'	2x4'	6'	2"	2"	2.27
GATE POST	16'	4'	6'	4 1/2"	3"	18.97/9.11

\* CARBON STEEL PIPE - SCHED. 40

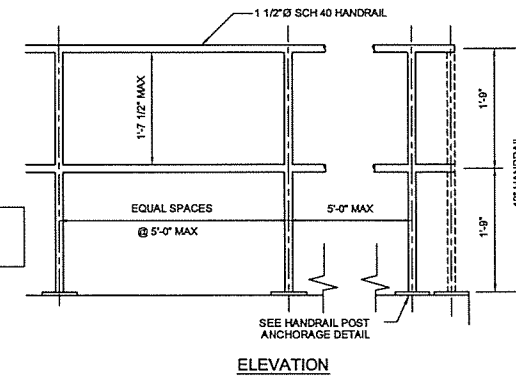
SITE FENCING AND GATES



TYPICAL HAND RAIL JOINT

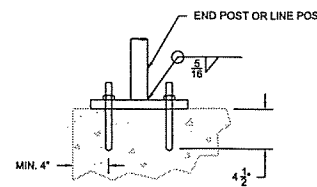


PLAN



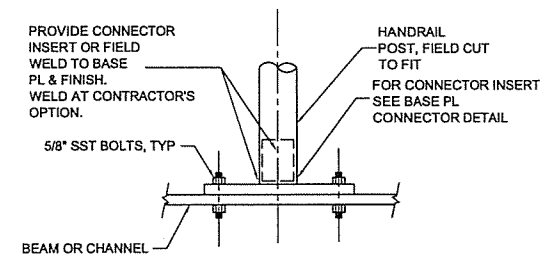
ELEVATION

HANDRAILING DETAILS



BASE PLATE

FENCE POST ANCHORAGE TO CONCRETE



NOTE:  
1. ALTERNATIVE - GRIND OFF GALVANIZING, WELD PLATES TO STRUCTURAL MEMBERS, TOUCH UP WELDS WITH GALVACON OR EQUAL.

HANDRAIL POST ANCHORAGE TO STEEL

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

SCALE VERIFICATION

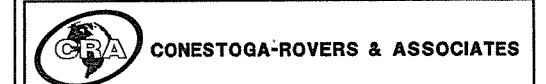
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS		
Approved		
Status	Date	Initial

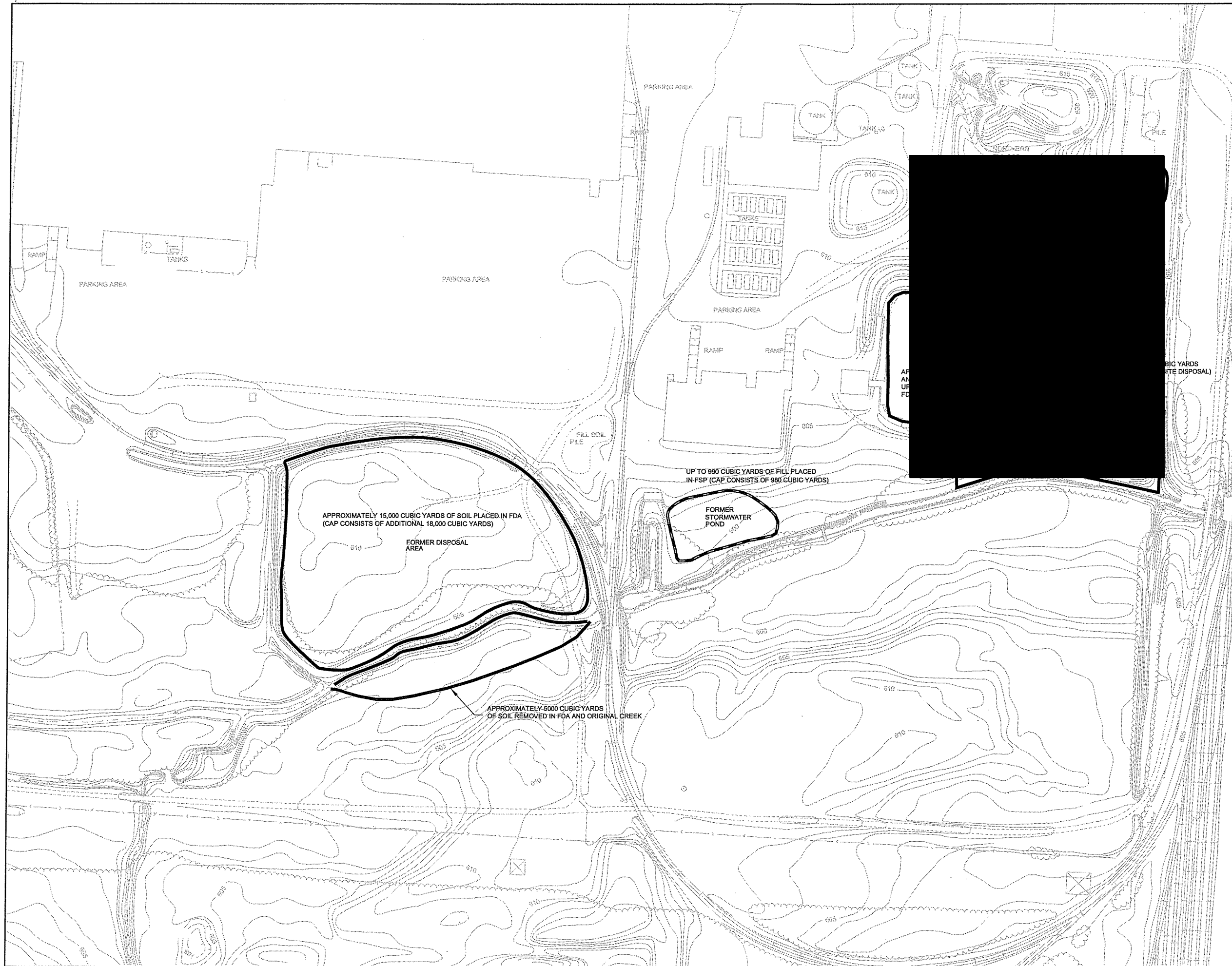
GENERAL MOTORS PROPERTY  
TOLEDO, OHIO

SITE REMEDIATION - AS RECORDED

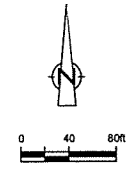
CIVIL  
FENCING DETAILS



Source Reference:			
Project Manager:	Reviewed By:	Date:	
D.WAGNER	C.HEBERT	JULY 2001	
Scale:	Project No.:	Report No.:	Drawing No.:
N.T.S.	12609-09	018	G-05AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



APPROXIMATELY 15,000 CUBIC YARDS OF SOIL PLACED IN FDA (CAP CONSISTS OF ADDITIONAL 18,000 CUBIC YARDS)

FORMER DISPOSAL AREA

UP TO 990 CUBIC YARDS OF FILL PLACED IN FSP (CAP CONSISTS OF 990 CUBIC YARDS)

FORMER STORMWATER POND

APPROXIMATELY 5000 CUBIC YARDS OF SOIL REMOVED IN FDA AND ORIGINAL CREEK

UP TO 990 CUBIC YARDS OF FILL PLACED IN FSP (CAP CONSISTS OF 990 CUBIC YARDS)

SCALE VERIFICATION  
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DRAWING STATUS		
Status	Date	Initial

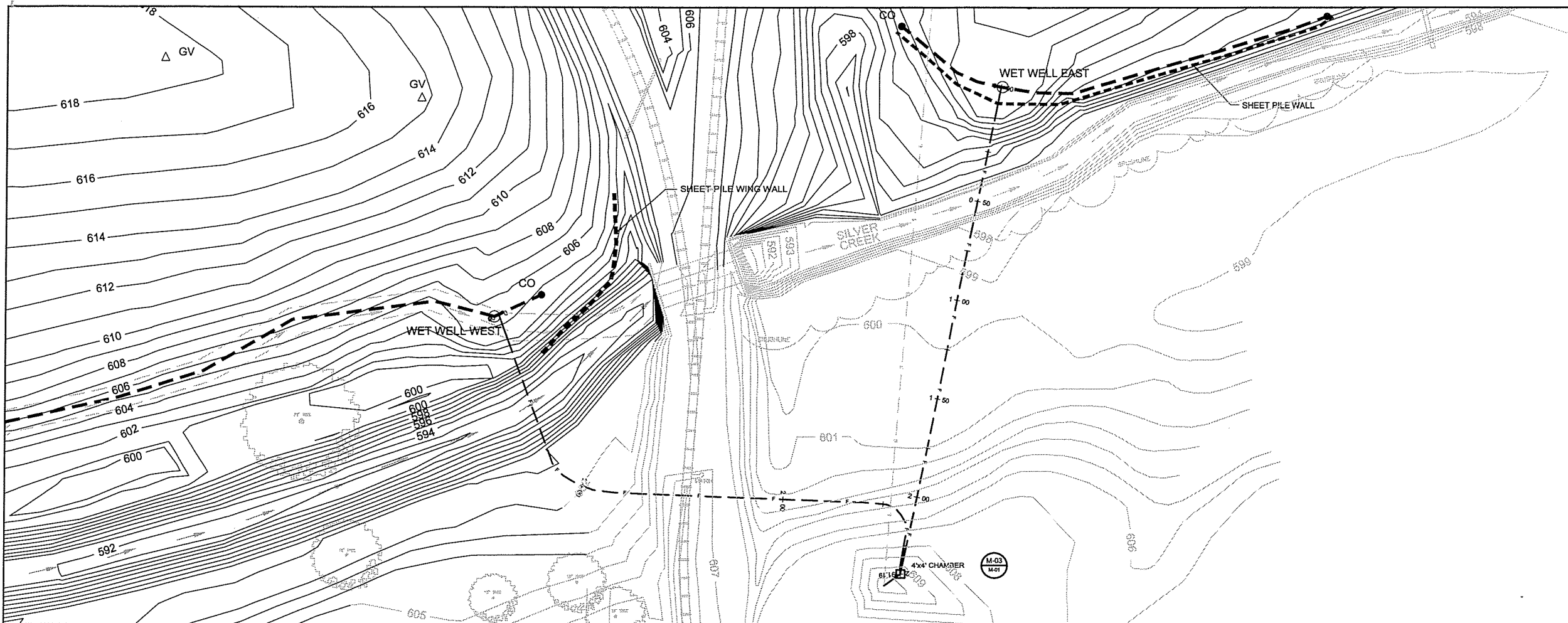
GENERAL MOTORS PROPERTY  
TOLEDO, OHIO

SITE REMEDIATION - AS RECORDED

OVERALL GRADING QUANTITIES



Source Reference: ABRAMS AERIAL SURVEY CORP. NOV. 24, 1997 PHOTOGRAPHY			
Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001	
Scale: 1"=50'	Project No: 12609-09	Report No: 018	Drawing No: G-06AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

N

0 10 30ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- 602 FINAL CONTOUR
- NEW CHANNEL
- LEACHATE COLLECTION SYSTEM
- M.H. MANHOLE
- CO CLEANOUT
- WET WELL
- SHEET PILE WALL
- FORCEMAIN

**SCALE VERIFICATION**

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

Approved

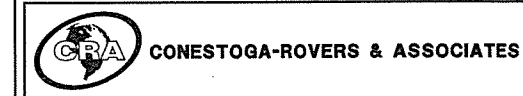
**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

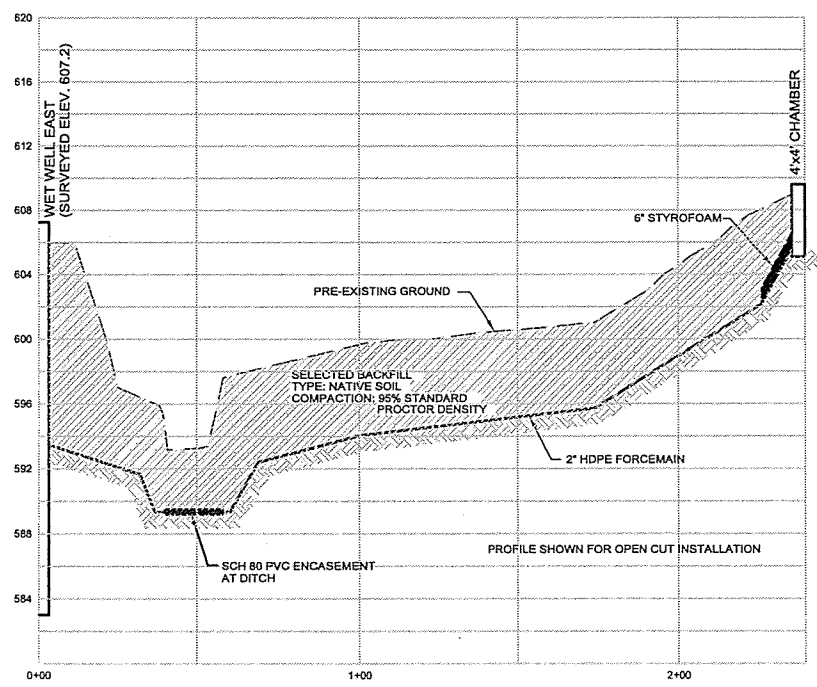
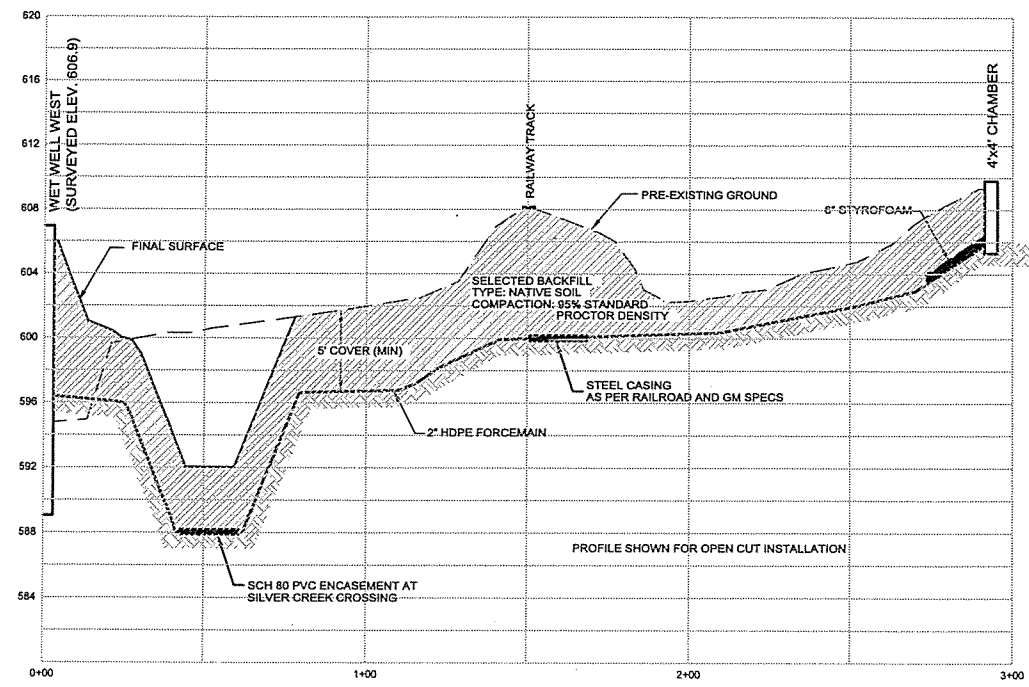
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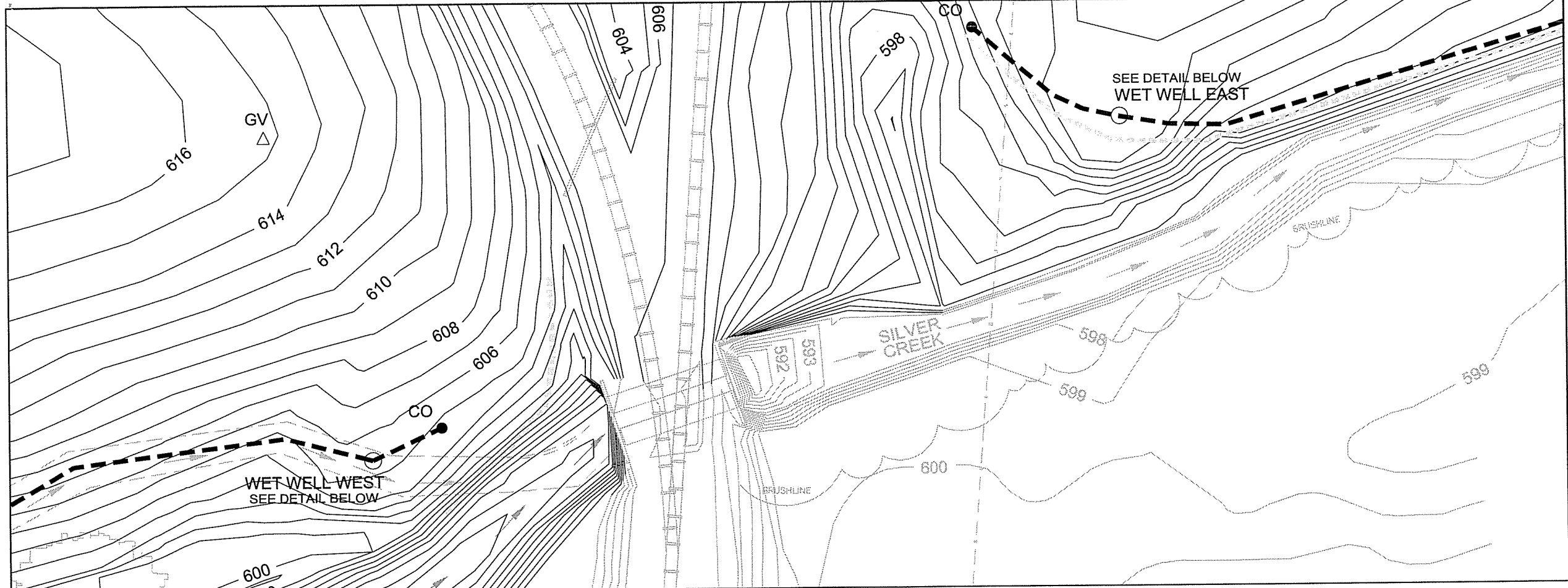
**FORCEMAINS  
PLAN AND PROFILE**



Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO, DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=30' VERT: 1"=4'	Project No: 12609-09	Report No: 018
		Drawing No: M-01AR





No	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 20ft

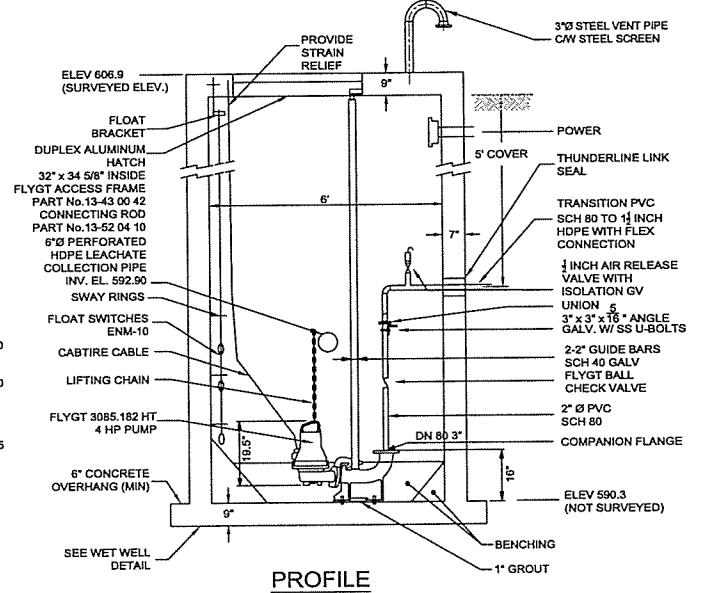
**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

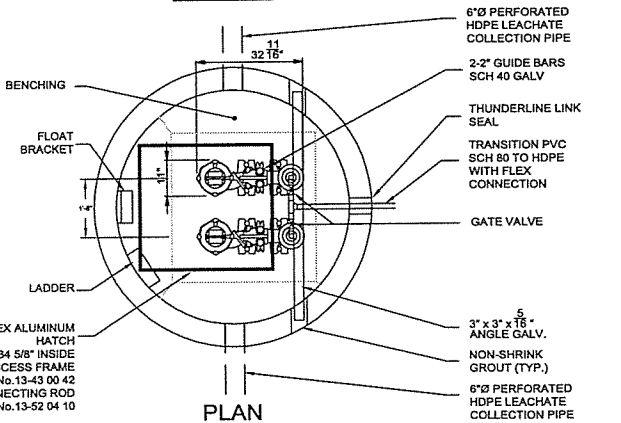
- 602 FINAL CONTOUR
- NEW CHANNEL
- LEACHATE COLLECTION SYSTEM
- M.H. MANHOLE
- CO CLEANOUT
- WET WELL
- SHEET PILE WALL

**WET WELL WEST**



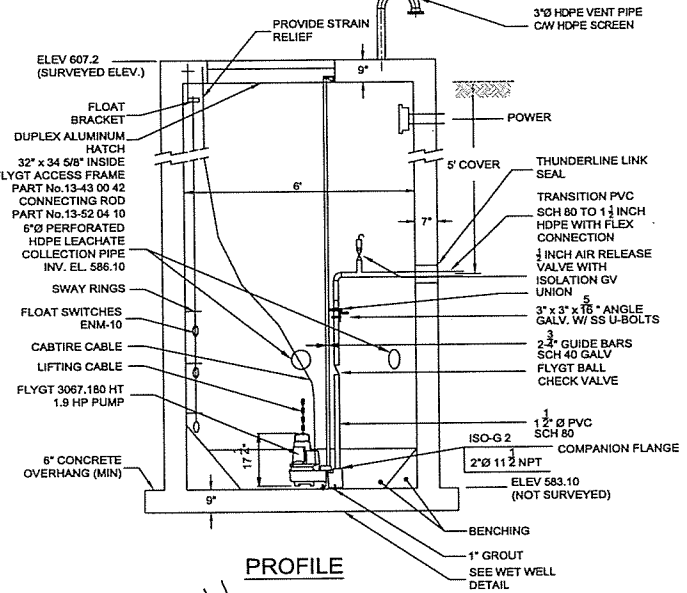
**PROFILE**

PUMP SYSTEM FOR FORMER DISPOSAL AREA WET WELL  
NOTE: ALL FITTINGS 1 1/2" Ø  
SCALE: N.T.S.



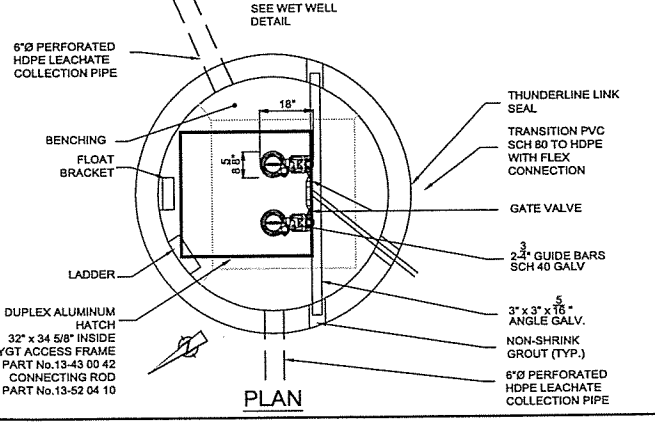
**PLAN**

**WET WELL EAST**



**PROFILE**

PUMP SYSTEM FOR FORMER STORMWATER POND WET WELL  
NOTE: ALL FITTINGS 1 1/2" Ø  
SCALE: N.T.S.



**PLAN**

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

**SITE REMEDIATION - AS RECORDED**

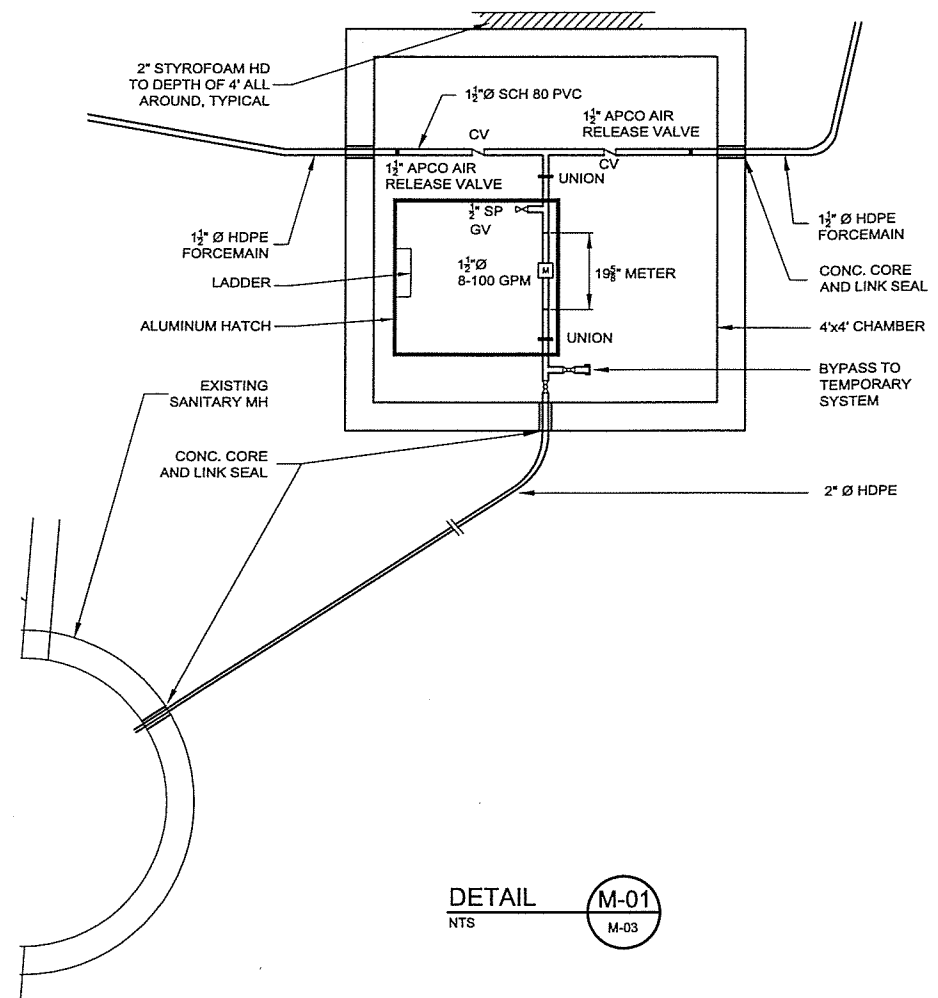
**MECHANICAL**

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference: NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=20'	Project No: 12609-09	Report No: 018
		Drawing No: M-02AR

12609-09(018)ME-WA001 JUL 11/2001



NOTES:

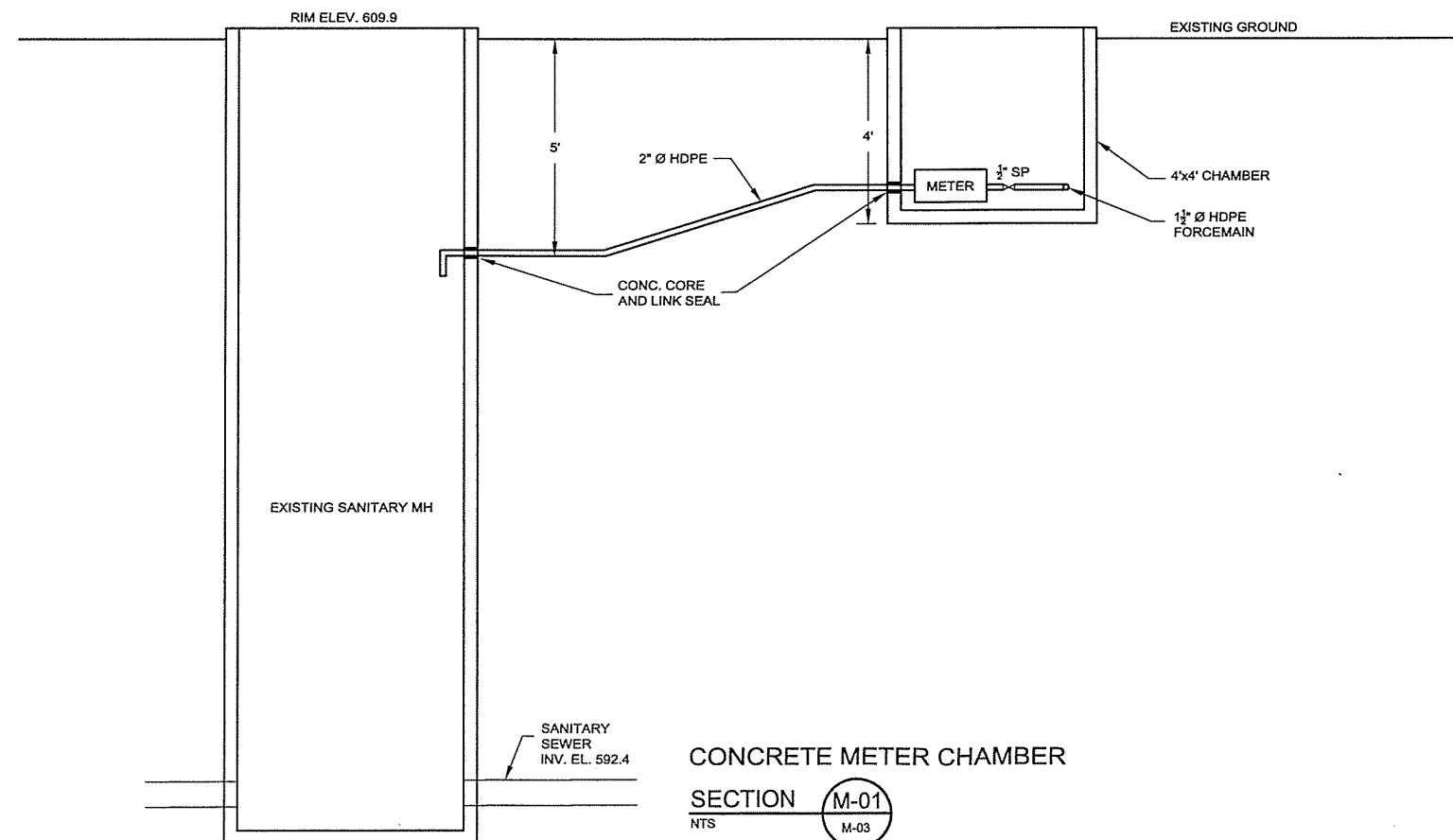
60gpm SYSTEM

1 1/2" BADGER SC-ER INDUSTRIAL METER W/ RUBBER DISC WITH FLOW AND ACCUMULATOR REGISTER

ALL PIPING IN CHAMBER SCH 80 PVC PIPE WITH CEMENT JOINTS. PROVIDE PIPE SUPPORTS AS REQUIRED BY MANUFACTURER.

DOUBLE DOOR LOCKABLE ALUMINUM HATCH TO BE PROVIDED WITH 2" INSULATION.

DETAIL M-01  
NTS M-03



CONCRETE METER CHAMBER  
SECTION M-01  
NTS M-03

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

SCALE VERIFICATION

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

Approved

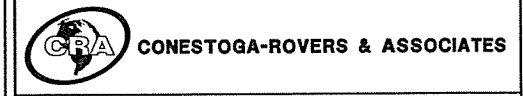
DRAWING STATUS

Status	Date	Initial

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TOLEDO, OHIO

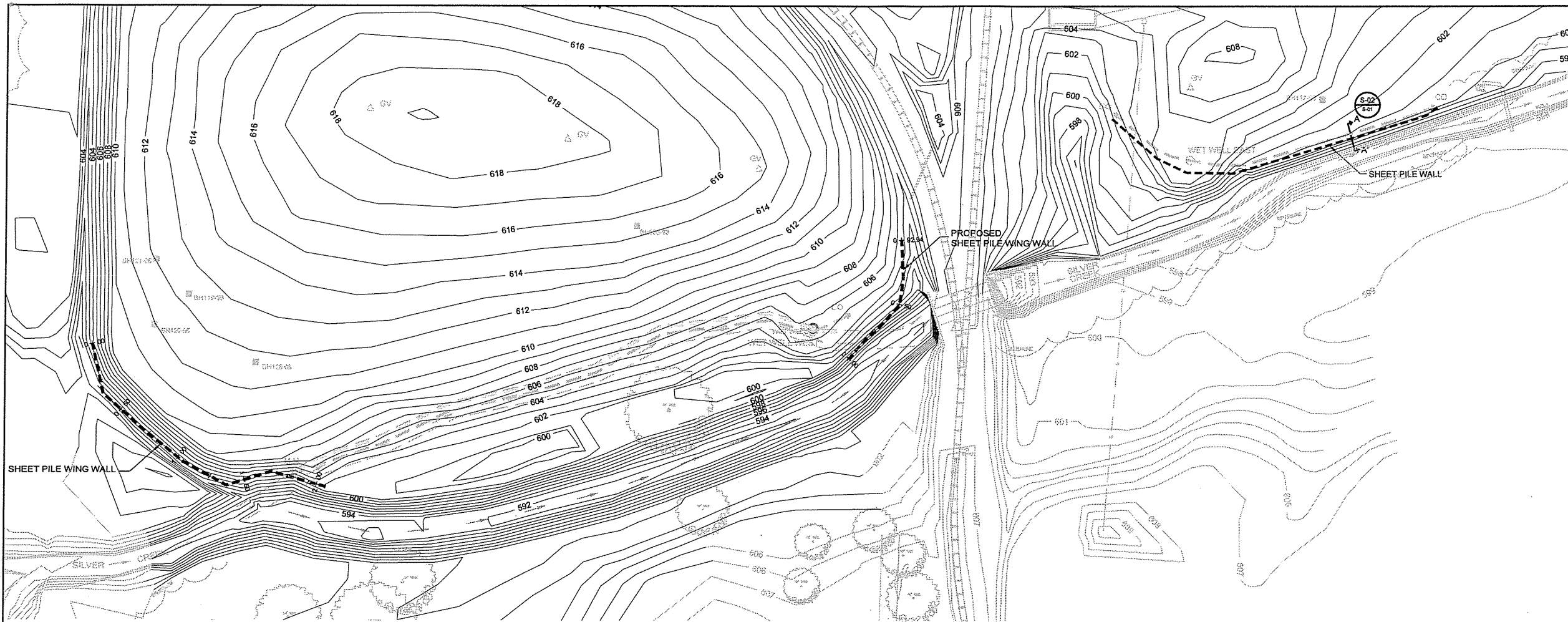
SITE REMEDIATION - AS RECORDED

MECHANICAL  
DETAIL AND SECTION

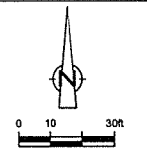


Source Reference:

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: N.T.S.	Project N°: 12609-09	Report N°: 018 Drawing N°: M-03AR



NO	Revision	Date	Initial



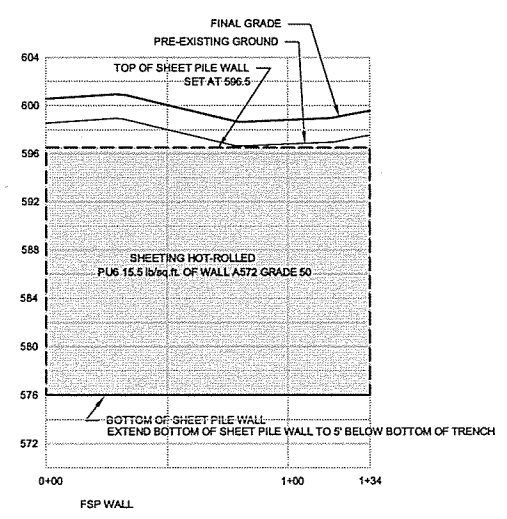
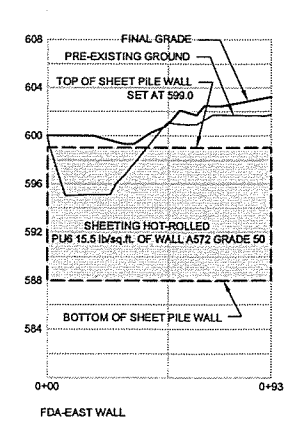
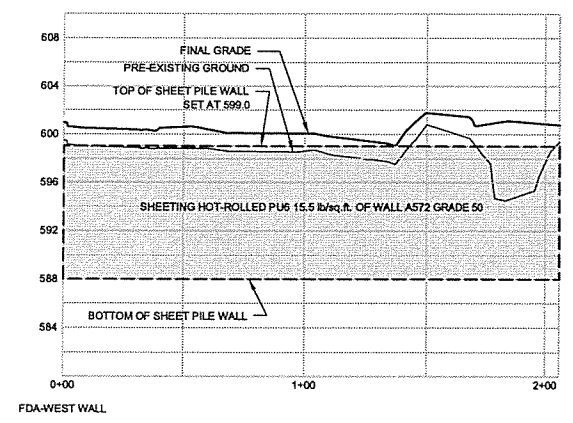
- EXISTING LEGEND**
- CONTOUR
  - ROAD
  - RAILROAD
  - MANHOLE
  - TREE
  - BRUSHLINE/DENSE VEGETATION LIMIT
  - SANITARY SEWER
  - ORIGINAL CHANNEL
- NEW LEGEND**
- 602 FINAL CONTOUR
  - NEW CHANNEL
  - LEACHATE COLLECTION SYSTEM
  - M.H. MANHOLE
  - CO CLEANOUT
  - WET WELL
  - GAS VENT
  - SHEET PILE WALL

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial



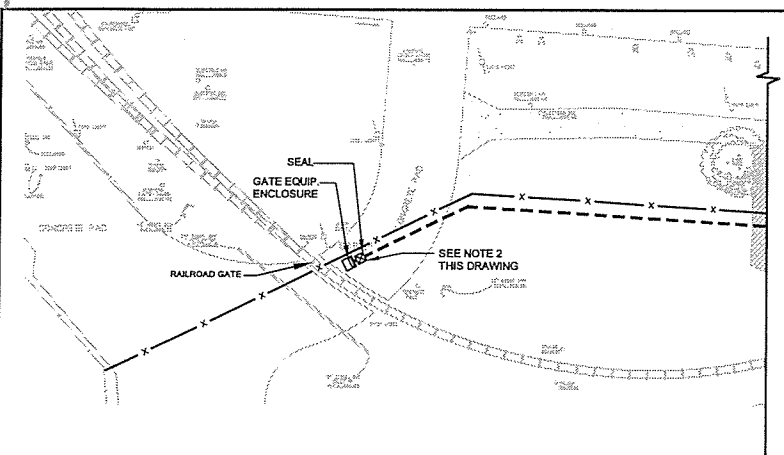
**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**  
SITE REMEDIATION - AS RECORDED  
**SHEET PILE WALLS  
PLAN AND PROFILE**



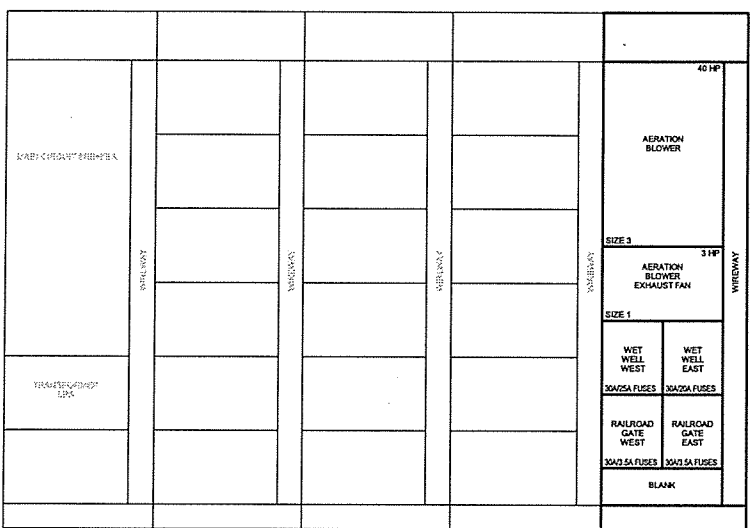
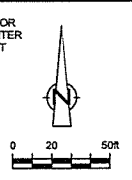
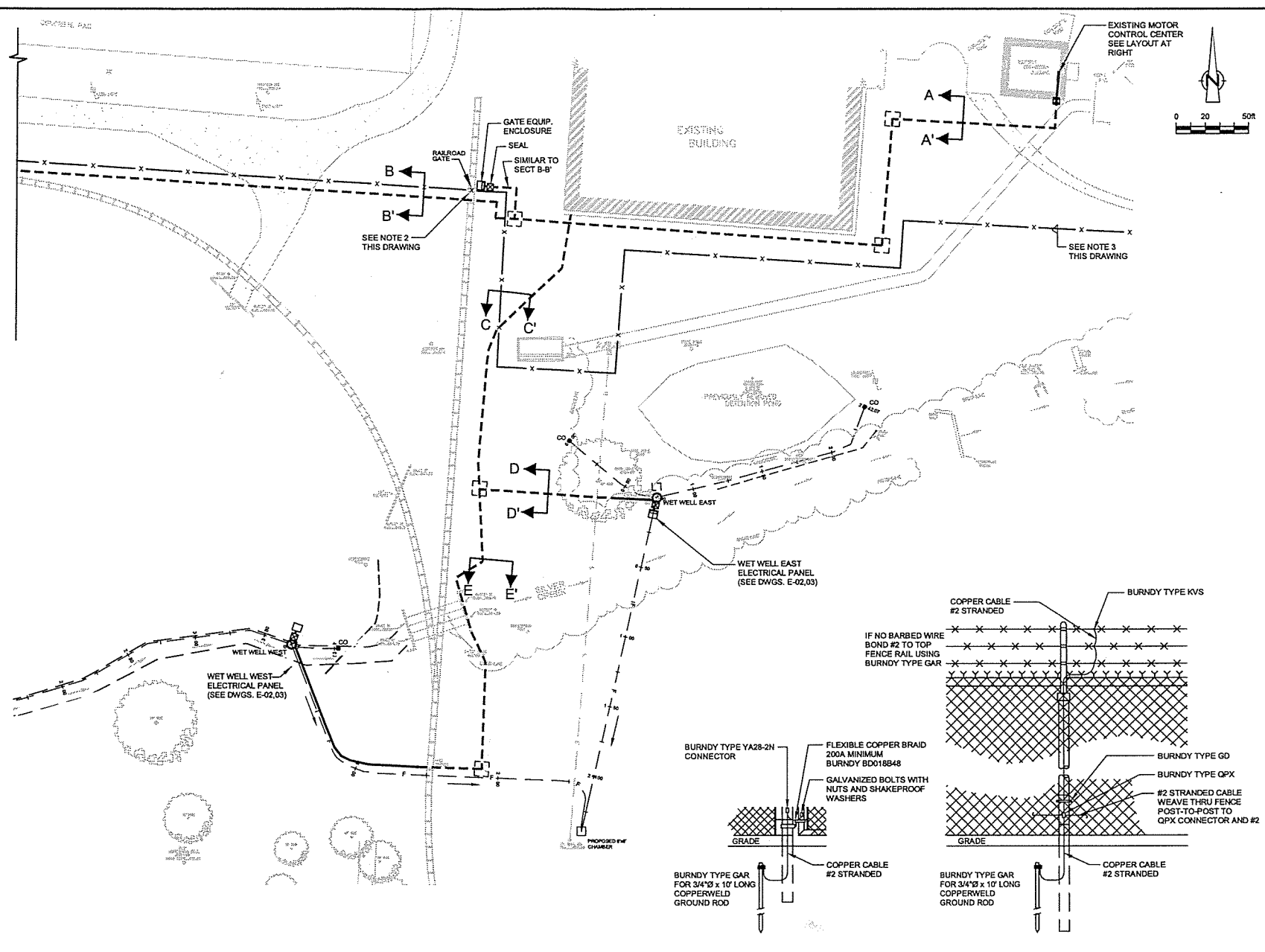
Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D. WAGNER	Reviewed By: C. HERBERT	Date: JULY 2001
Scale: HORIZ: 1"=40' VERT: 1"=8'	Project No.: 12609-09	Report No.: 018 Drawing No.: S-01AR

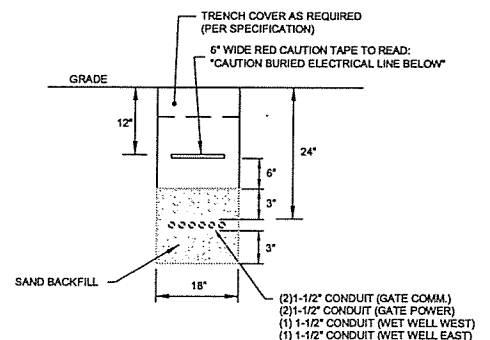




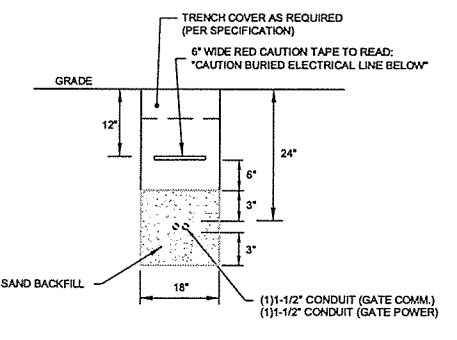
INFORMATION NOT RECEIVED  
AS BUILT ELECTRICAL INFORMATION FROM ROMANOFF



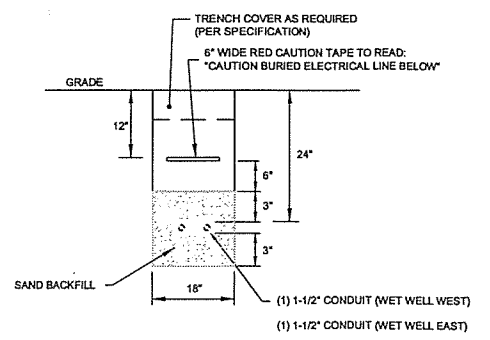
EXISTING MOTOR CONTROL CENTER LAYOUT  
N.T.S.



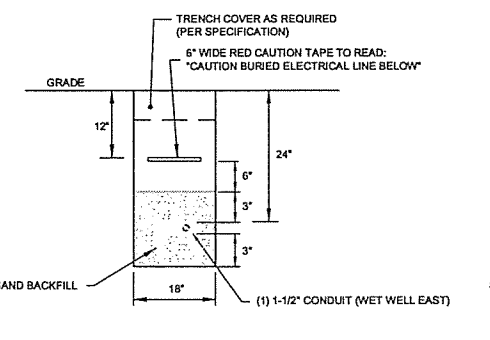
TRENCH FOR ELECTRICAL CONDUIT  
SECTION A-A'  
N.T.S.



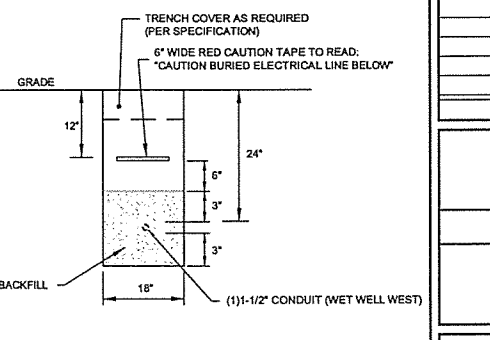
TRENCH FOR ELECTRICAL CONDUIT  
SECTION B-B'  
N.T.S.



TRENCH FOR ELECTRICAL CONDUIT  
SECTION C-C'  
N.T.S.



TRENCH FOR ELECTRICAL CONDUIT  
SECTION D-D'  
N.T.S.



TRENCH FOR ELECTRICAL CONDUIT  
SECTION E-E'  
N.T.S.

GATE POST FRAME DETAIL

FENCE GROUNDING  
N.T.S.

FENCE POST DETAIL

NO	Revision	Date	Initial
1	CONDUIT SEAL DETAILS	6/2000	DLS
1	PEER REVIEWED	JUNE 2000	KCA

**LEGEND**

	RIGID GALVANIZED STEEL CONDUIT
	PVC SCHEDULE 80 CONDUIT
	HANDHOLE - CHRISTY H20 BOX
	CONDUIT SEAL
	FENCE

- NOTES**
- SUPPLY CONDUIT SEALS AT EACH CONDUIT PROTRUDING THRU GROUND LOCATION. THE SEAL SHALL BE PLACED AT CONDUIT ENTRANCE TO EQUIPMENT ENCLOSURES AND BUILDINGS.
  - SUPPLY POWER AND COMMUNICATION WIRING TO (2) RAILROAD GATES. OBTAIN GM PLANT COMMUNICATION WIRING SPECS AND COORDINATE COMMUNICATION WIRING TIE-IN POINTS WITH GM PERSONNEL.
  - BOND THE NEW FENCE TO THE EXISTING ONE.

**SCALE VERIFICATION**

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

Approved

**DRAWING STATUS**

Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO

SITE REMEDIATION - AS RECORDED

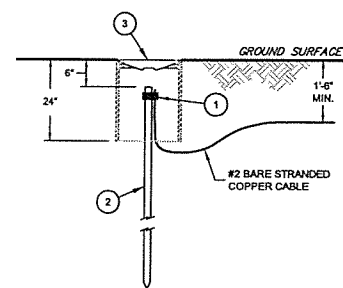
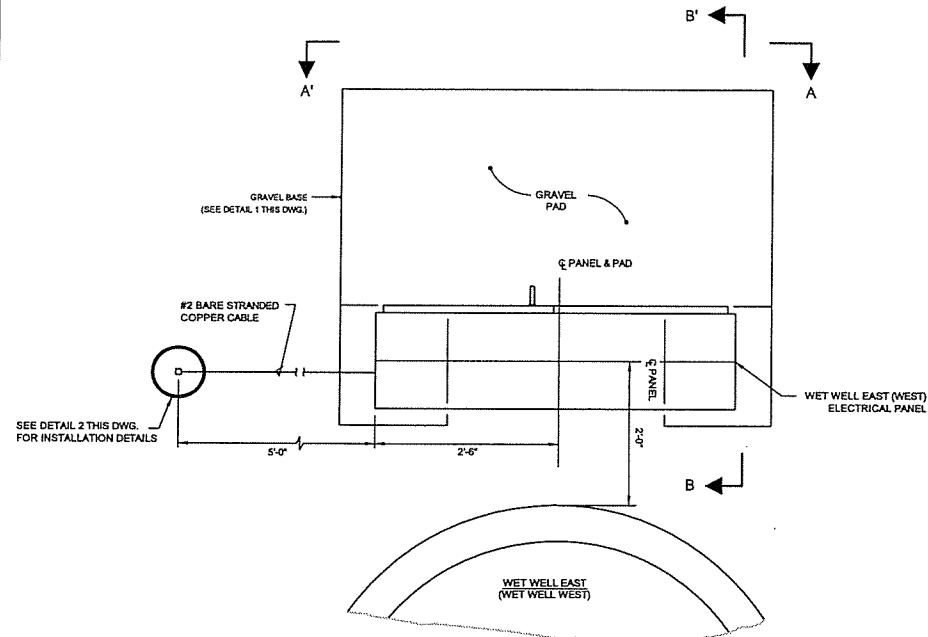
ELECTRICAL  
SITE PLAN

**CONESTOGA-ROVERS & ASSOCIATES**

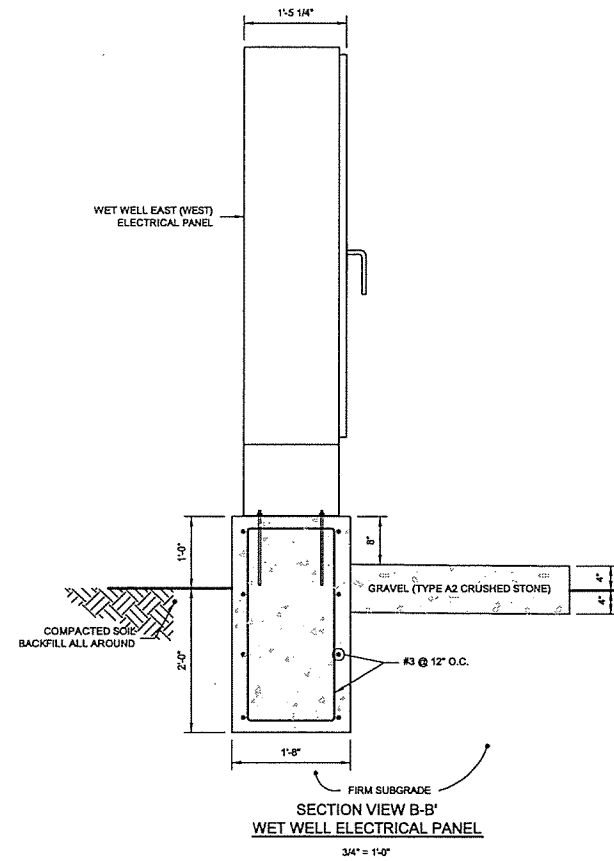
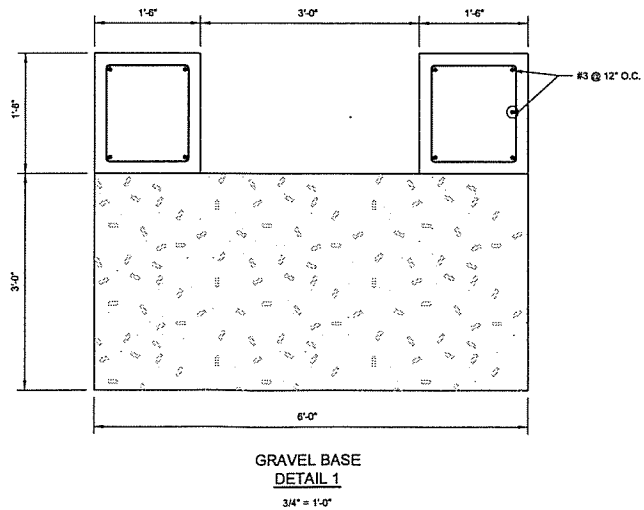
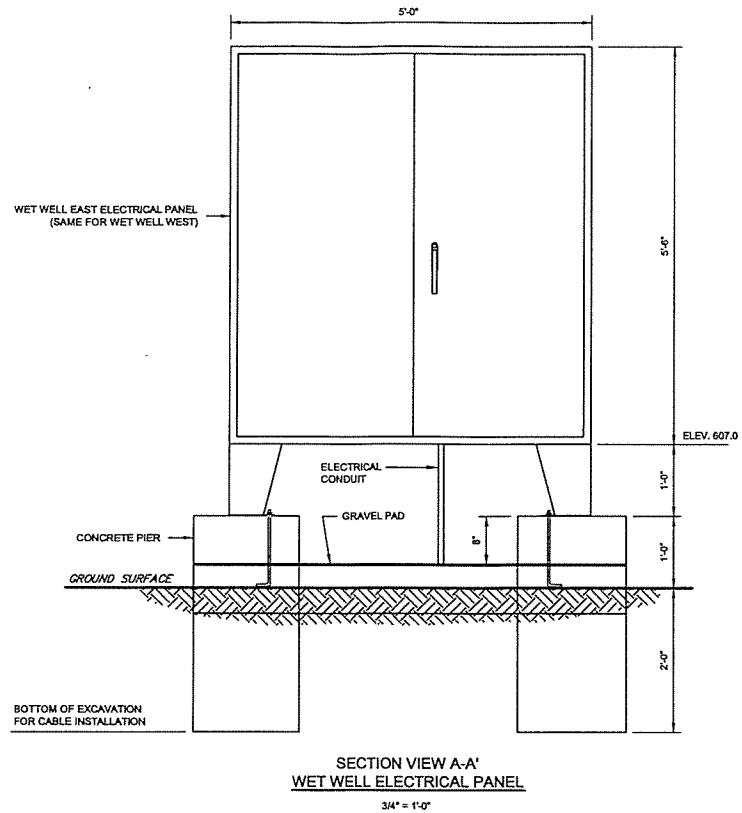
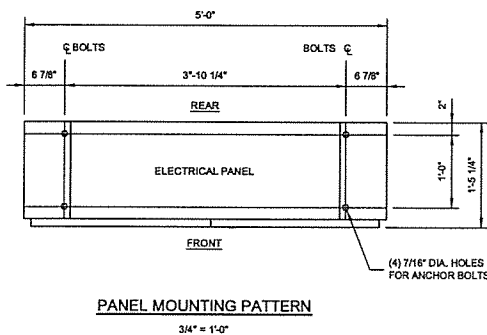
Source Reference:

Project Manager: D. WAGNER	Reviewed By: B. ELKIN	Date: JULY 2000
Scale: 1"=50'	Project NO: 12609-09	Report NO: 018
		Drawing NO: E-01AR

ITEM	QTY.	DESCRIPTION	MANUFACTURER	PART/MODEL NUMBER
1	1	WEMA 4X STAINLESS STEEL DOUBLE DOOR ENCLOSURE, 66"X24"X18" WITH 12" HIGH FLOOR STANDS	HENNESSY PRODUCTS, INC.	REFERENCE
2				



- 1 CONNECTOR: BURNDY CAT. No. GAR-6426 (1 CABLE) OR GP6426 (2 CABLES)
- 2 GROUND ROD: COPPERWELD, 3/4" DIA. x 10' LG.
- 3 INSPECTION WELL: 8" DIAMETER BY 24" LONG CONCRETE PIPE WITH BELLED END AND CAST IRON COVER W/LEGEND "GROUND"



**CONCRETE NOTES**

- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301, 315 AND 318 SPECIFICATIONS.
- LATEST REVISION AND/OR VERSION OF ALL CODES AND REFERENCE STANDARDS SHALL BE FOLLOWED.
- CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. SLUMP SHALL BE 3 1/2 INCHES ± 1 INCH.
- CONCRETE SHALL BE AIR ENTRAINED. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE II WITH AIR-ENTRAINING ADMIXTURE CONFORMING TO ASTM C260. AIR CONTENT (% BY VOLUME) SHALL NOT BE LESS THAN 4% NOR GREATER THAN 6.5%, AND SHALL DEPEND ON MAXIMUM SIZE AGGREGATE USED.
- NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE BASED COMPOUNDS, FLYASH AND POZZOLAN CONTENT SHALL NOT EXCEED 20% BY WEIGHT OF CEMENT.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 40 SPECIFICATIONS.
- CONCRETE PROTECTION FOR REINFORCING BARS (UNLESS OTHERWISE NOTED):  
A. FOOTINGS - 3 INCH BOTTOM AND SIDES, 2 INCH TOP  
B. GRADE BEAMS - 2 INCH BOTTOM AND SIDES, 1 1/2 INCH TOP (TO STIRRUPS)  
C. PIERS - 1 1/2 INCH (TO TIES)  
D. FORMED SLABS - 1 1/2 INCH TOP AND BOTTOM  
E. WALLS AND PADS - 2 INCH  
F. EXTERIOR SLABS ON FILL - 2 1/2 INCH BOTTOM, 2 INCH TOP  
G. INTERIOR SLABS ON FILL - 2 1/2 INCH BOTTOM, 1 1/2 INCH TOP
- NO CONSTRUCTION JOINT SHALL BE MADE UNLESS SHOWN ON DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
- EXPOSED EDGES OF PIERS AND PADS SHALL HAVE 3/4 INCH CHAMFER.
- TROWEL FINISHED TO WITHIN 1/8 INCH OF ELEVATIONS SHOWN, FOLLOWING TROWELLING, PAD TO BE PROVIDED WITH NON-SLIP MEDIUM BROOM FINISH.

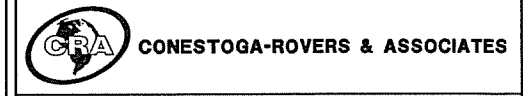
NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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

Approved

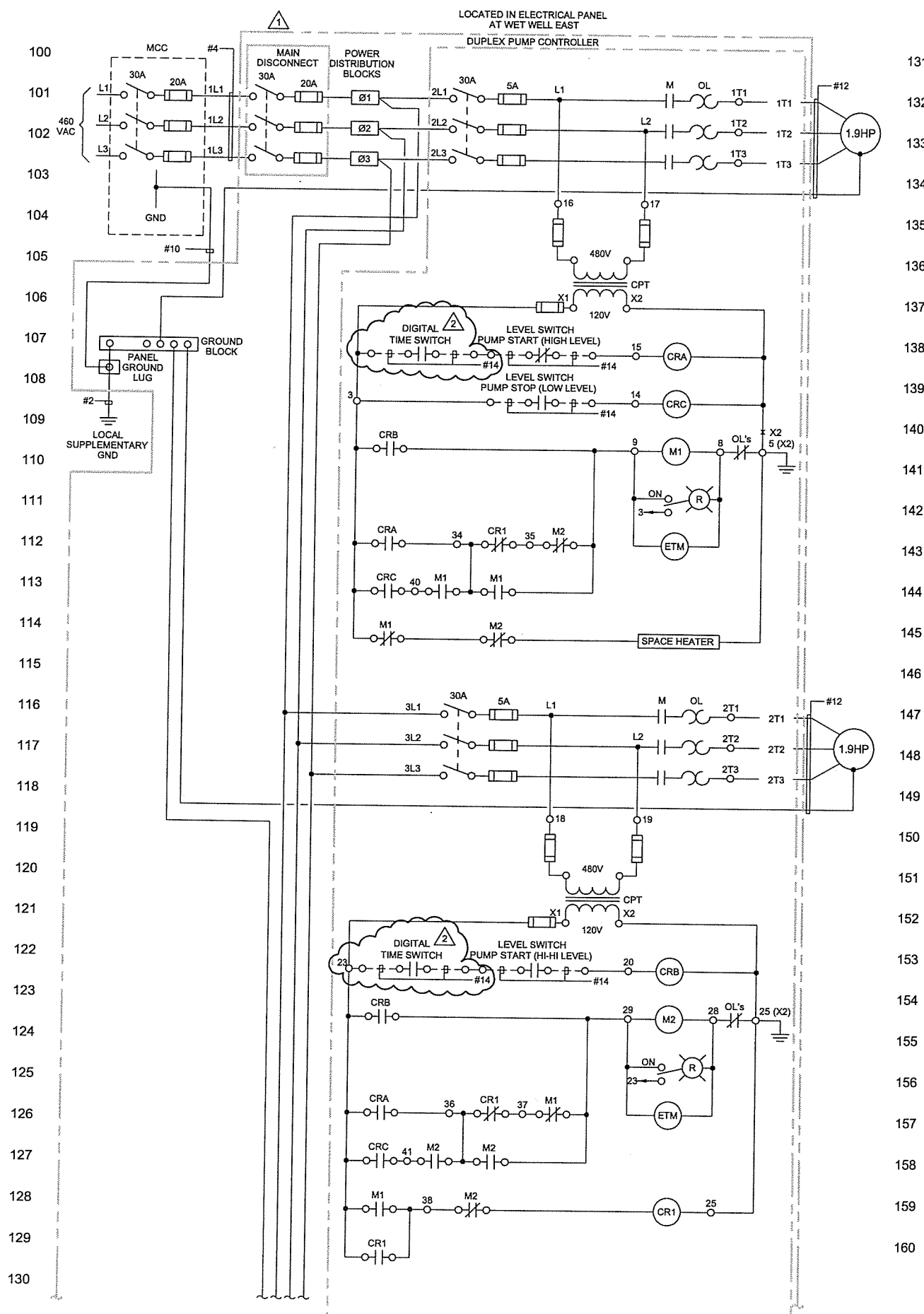
DRAWING STATUS		
Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION - AS RECORDED  
ELECTRICAL INSTALLATION  
WET WELL EAST (WEST) ELECT. PANEL

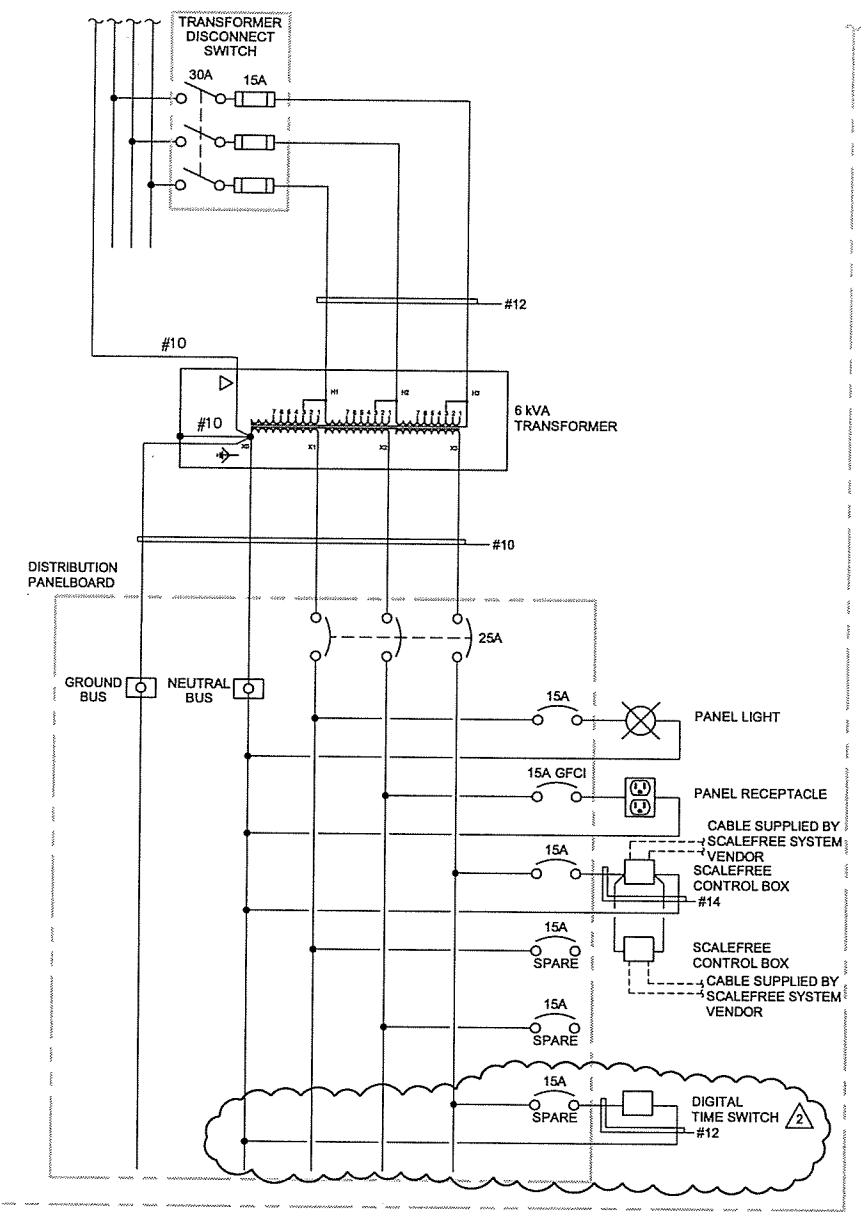


Source Reference:			
Project Manager: D. WAGNER	Reviewed By: B. ELKIN	Date: JULY 2000	
Scale: 1" = 1'-0"	Project No: 12609-09	Report No: 018	Drawing No: E-02AR





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NR	Revision	Date	Initial
1	REVISED MAIN DISCONNECT	8/04/00	DLS
2	ADDED TIME SWITCH	02/02/01	DLS

SCALE VERIFICATION

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

DRAWING STATUS		
Status	Date	Initial

GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO

SITE REMEDIATION - AS RECORDED

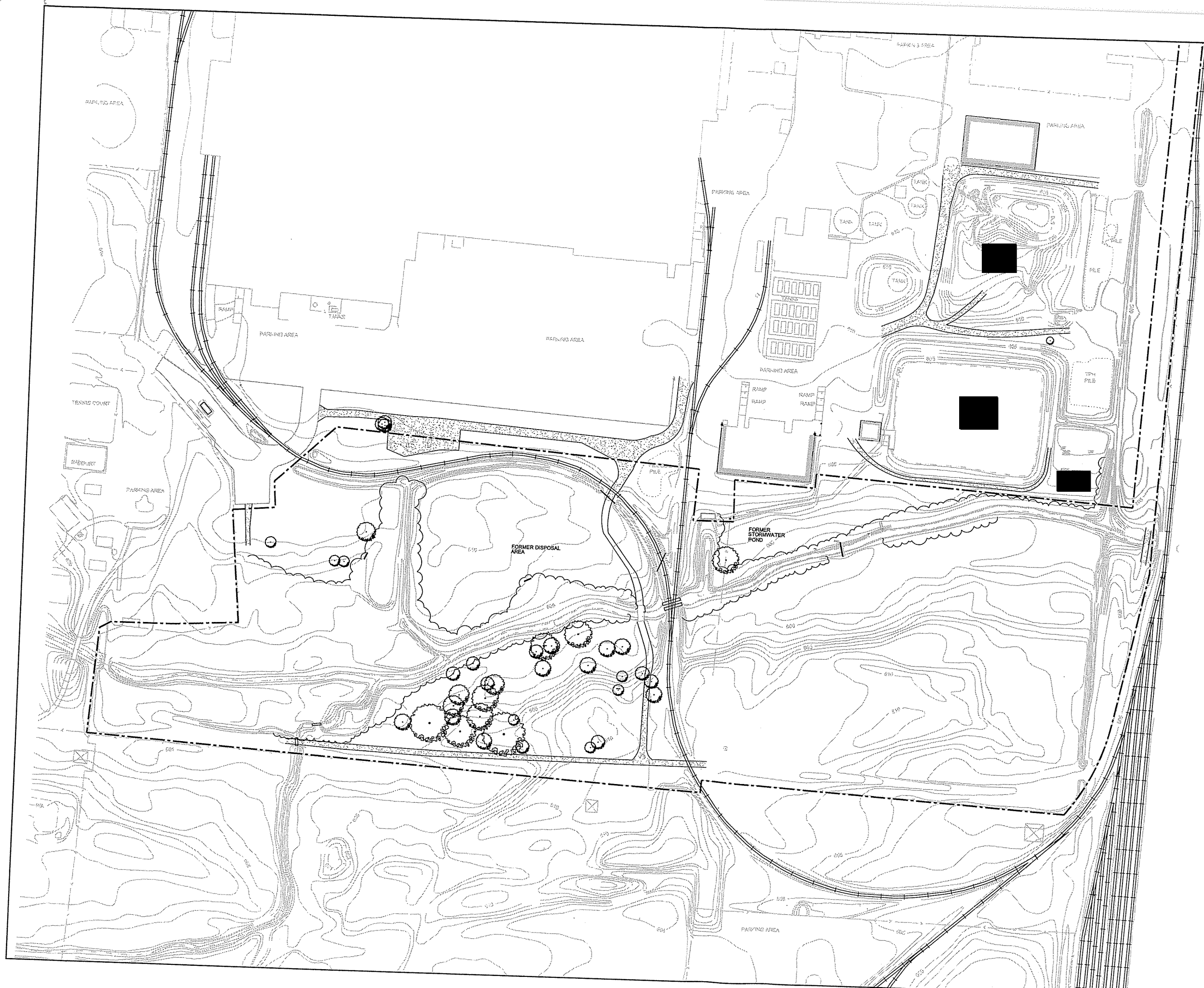
WET WELL EAST ELECTRICAL PANEL  
 SCHEMATIC WIRING DIAGRAM

**CONESTOGA-ROVERS & ASSOCIATES**

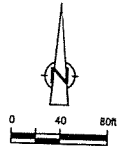
Source Reference:

Project Manager: D.WAGNER	Reviewed By: B.ELKIN	Date: JULY 2000
Scale: NONE	Project NR: 12609-09	Report NR: 018
		Drawing NR: E-04AR





NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



- EXISTING LEGEND**
- CONTOUR
  - ROAD
  - RAILROAD
  - MANHOLE
  - TREE
  - BRUSHLINE/DENSE VEGETATION LIMIT
  - SANITARY SEWER
  - PROPERTY BOUNDARY

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

Approved

**DRAWING STATUS**

Status	Date	Initial

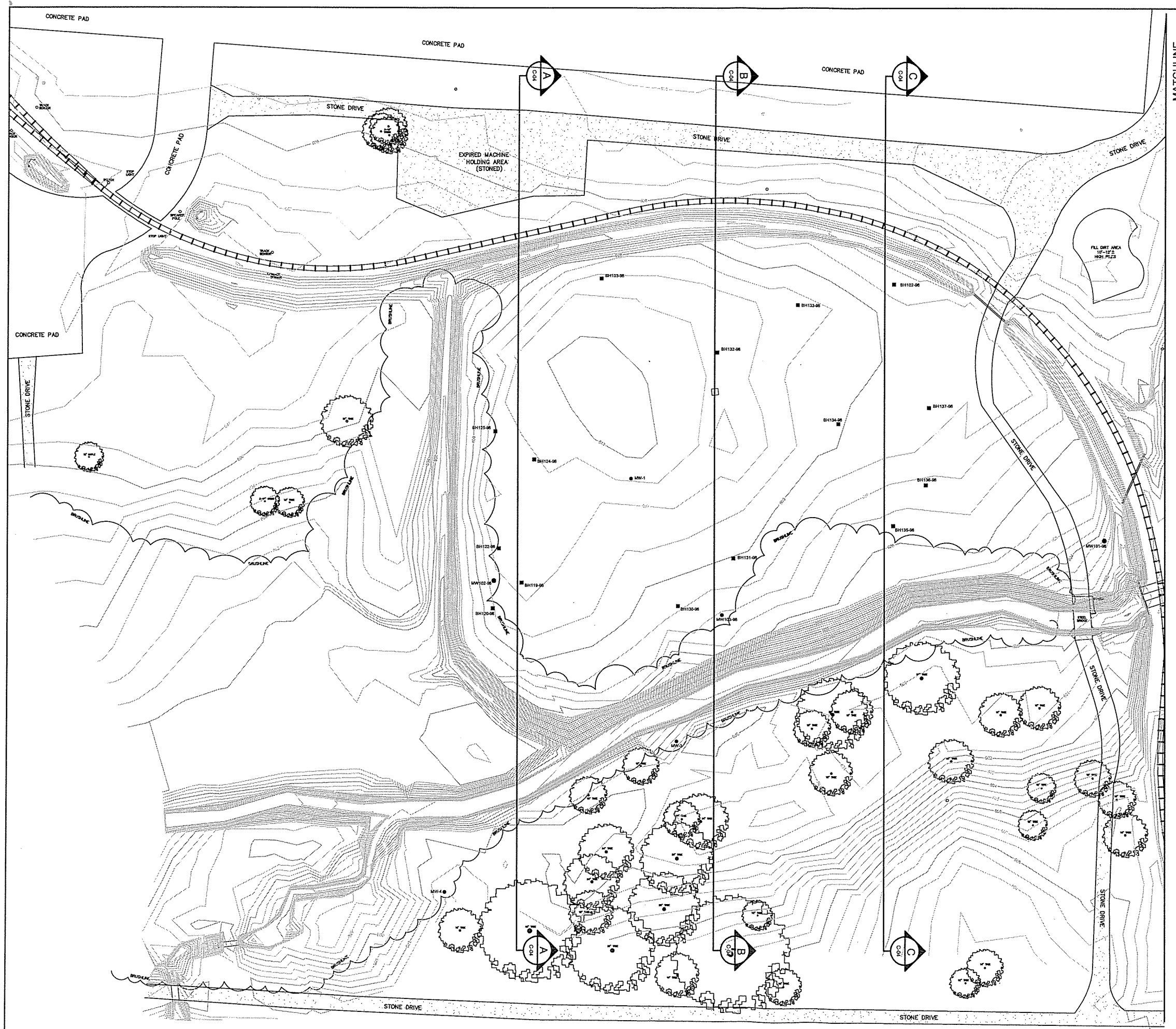
**GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO**  
 SITE REMEDIATION-AS RECORDED  
 PRE-EXISTING CONDITIONS



Source Reference:  
 ABRAMS AERIAL SURVEY CORP. NOV. 24, 1997 PHOTOGRAPHY  
 LEWANDOWSKI ENGINEERS, TOLEDO, OHIO, DRAWING NO. 35010-GM

Project Manager: D. WAGNER      Reviewed By: C. HEBERT      Date: JULY 2001

Scale: 1"=80'      Project No: 12600-00      Report No: 010      Drawing No: 0110



MATCHLINE

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 20 40ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- MONITORING WELL
- BOREHOLE LOCATIONS
- ELECTRICAL MANHOLE

**SCALE VERIFICATION**

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

Approved

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

SITE REMEDIATION-AS RECORDED

FORMER DISPOSAL AREA  
PRE-EXISTING CONDITIONS

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO OHIO. DRAWING #35010-GM

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=40'	Project N°: 12609-09	Report N°: 018
		Drawing N°: C-02AR



NS	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 30ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- MONITORING WELL
- BOREHOLE LOCATIONS
- ELECTRICAL MANHOLE

**SCALE VERIFICATION**

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

Approved

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

SITE REMEDIATION-AS RECORDED

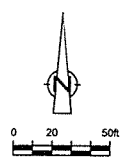
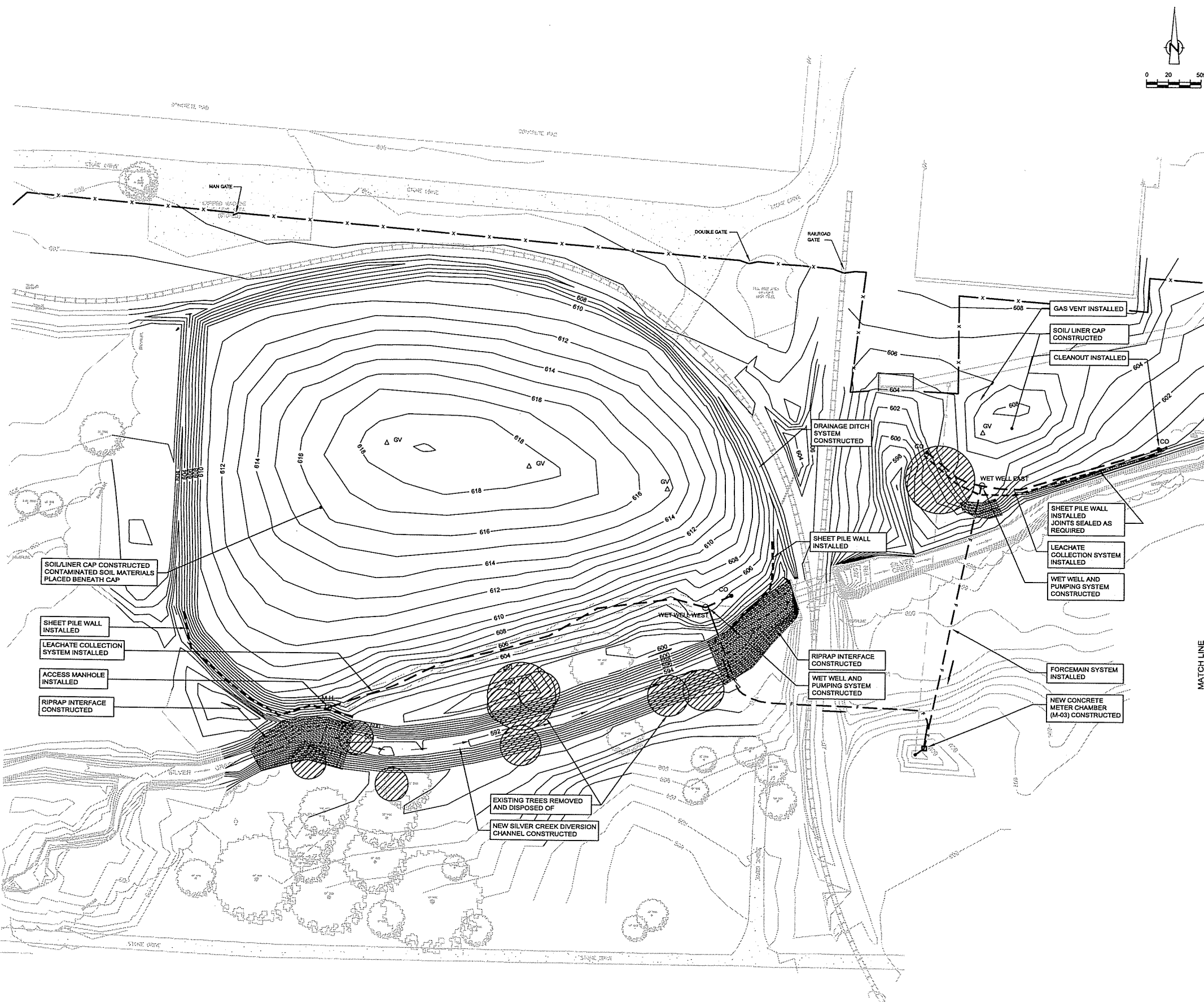
**FORMER STORMWATER POND  
PRE-EXISTING CONDITIONS**



Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=30'	Project No: 12609-09	Report No: 018
		Drawing No: C-03AR





NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- o MANHOLE
- o TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- 602 --- FINAL CONTOUR
- NEW CHANNEL
- LEACHATE COLLECTION SYSTEM
- M.H. o MANHOLE
- CO o CLEANOUT
- WET WELL o WET WELL
- SHEET PILE WALL
- F --- FORCEMAIN
- LIMIT OF CAP
- DRAINAGE DITCH SYSTEM
- o TREE TO BE REMOVED
- FENCE
- △ GV GAS VENT
- RIPRAP

NOTE: TREES THAT WERE REMOVED WERE CHIPPED, STOCKPILED AND SAMPLED

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

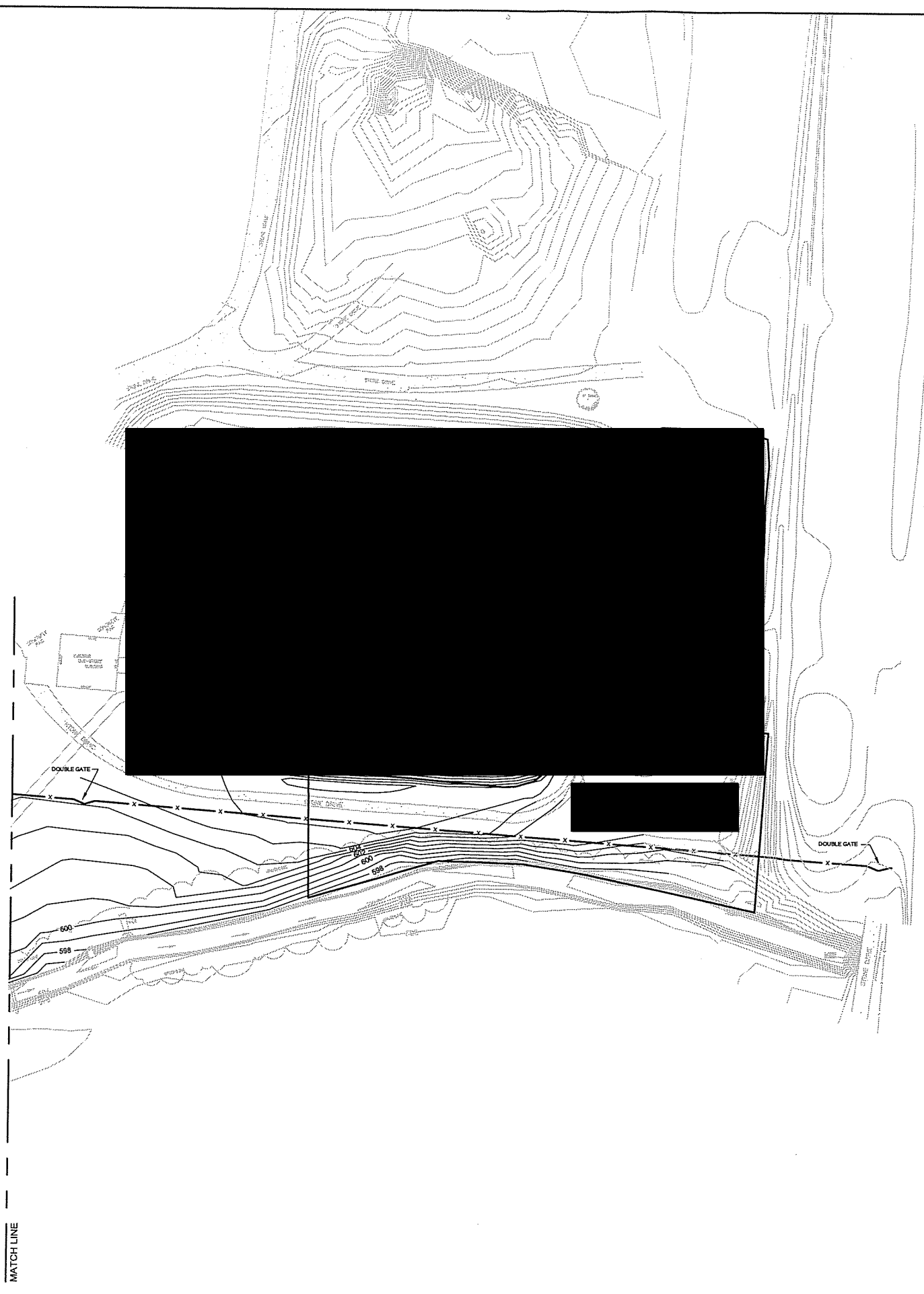
**SITE REMEDIATION-AS RECORDED**

**SITE WORKS**

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D. WAGNER	Reviewed By: C. HEBERT	Date: JULY 2001
Scale: 1"=50'	Project No: 12609-09	Report No: 018
		Drawing No: C-05AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

N

0 20 50ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- FENCE

SCALE VERIFICATION

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

Approved

DRAWING STATUS

Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO

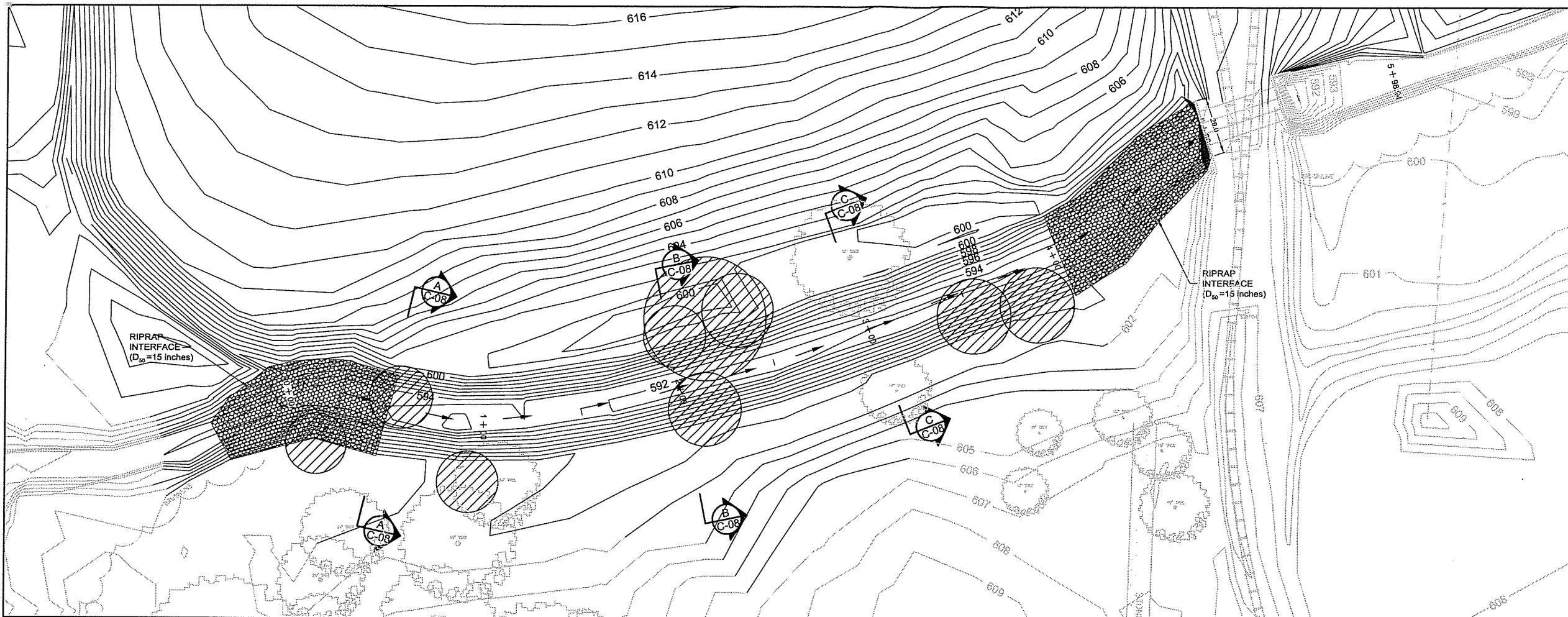
SITE REMEDIATION-AS RECORDED

SITE WORKS II

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=50'	Project N <sup>o</sup> : 12609-09	Report N <sup>o</sup> : 018
		Drawing N <sup>o</sup> : C-06AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

N

0 10 30ft

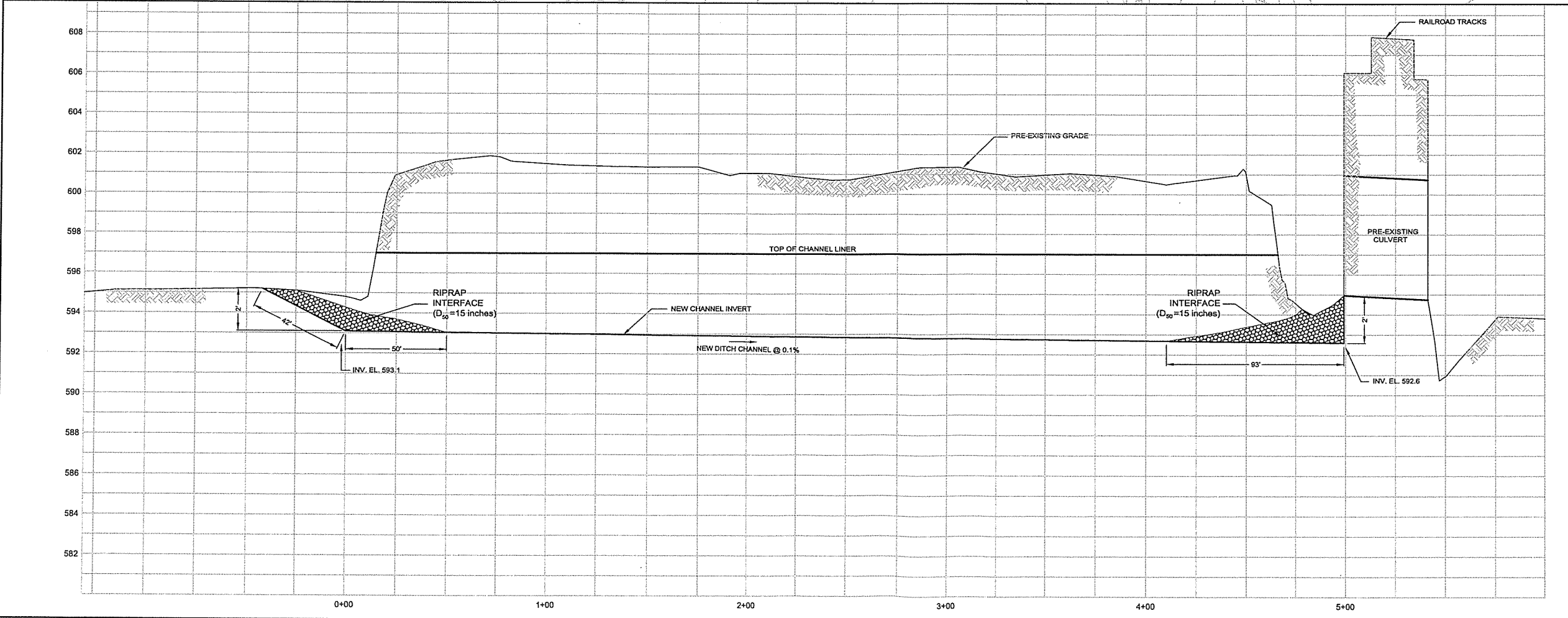
**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- 602 FINAL CONTOUR
- TREE TO BE REMOVED
- NEW CHANNEL

NOTE: TREES THAT WERE REMOVED WERE CHIPPED, STOCKPILED AND SAMPLED



**SCALE VERIFICATION**

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

Approved

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

SITE REMEDIATION-AS RECORDED

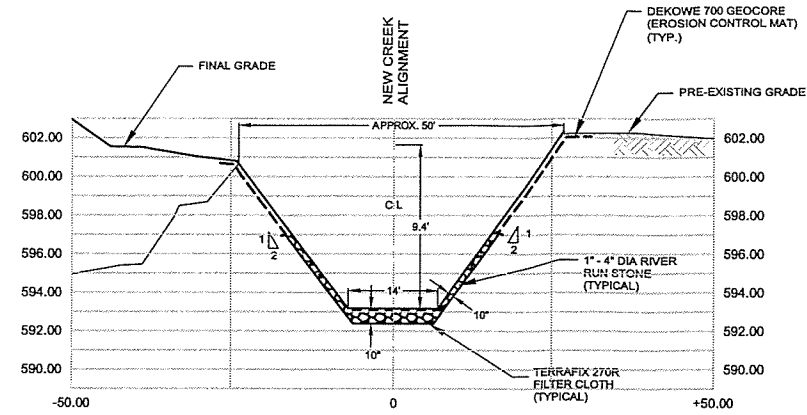
**SILVER CREEK RELOCATION  
PLAN AND PROFILE**

**CONESTOGA-ROVERS & ASSOCIATES**

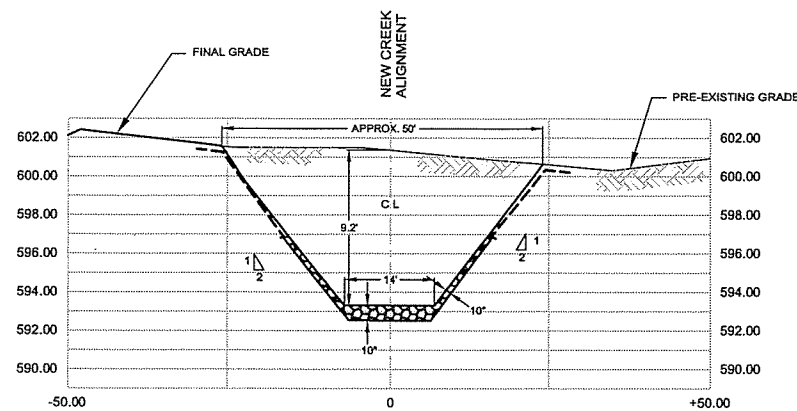
Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ. 1"=30' VERT. 1"=3'	Project No.:# 12609-09	Report No.:# 018 Drawing No.:# C-07AR

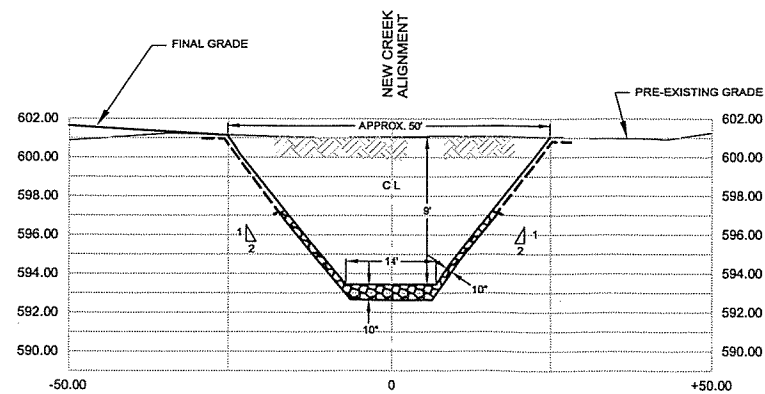
12609-09(018)CI-WA010 JUL 11/2001



SECTION A  
 HORIZ 1"=15'  
 VERT 1"=5'



SECTION B  
 HORIZ 1"=15'  
 VERT 1"=5'



SECTION C  
 HORIZ 1"=15'  
 VERT 1"=5'

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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

Approved

DRAWING STATUS

Status	Date	Initial

GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO  
 SITE REMEDIATION-AS RECORDED  
 SILVER CREEK RELOCATION  
 CIVIL SECTIONS


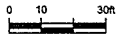
**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
 LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
 NOVA SURVEYING AND MAPPING SERVICES







Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: AS SHOWN	Project No: 12609-09	Report No: 018
		Drawing No: C-08AR





NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

**EXISTING LEGEND**


-  CONTOUR
-  ROAD
-  RAILROAD
-  MANHOLE
-  TREE
-  BRUSHLINE/DENSE VEGETATION LIMIT

**NEW LEGEND**

-  SUBGRADE CONTOUR
-  NEW CHANNEL

**SCALE VERIFICATION**

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




Approved

**DRAWING STATUS**

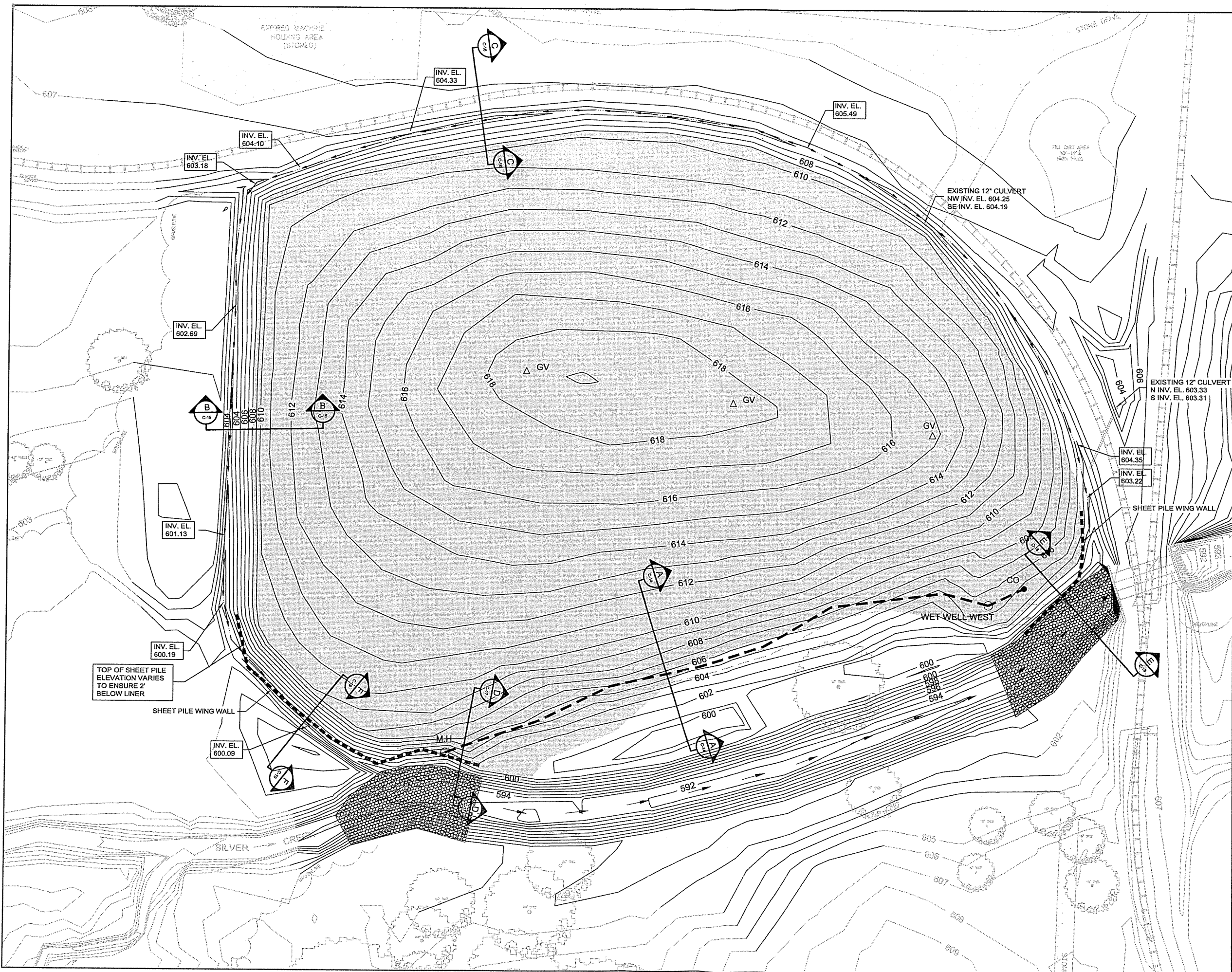
Status	Date	Initial

**GENERAL MOTORS PROPERTY**  
**TOLEDO, OHIO**  
**SITE REMEDIATION-AS RECORDED**  
**FORMER DISPOSAL AREA**  
**SUBGRADE**


**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=30'	Project No: 12609-09	Report No: 018
		Drawing No: C-09AR



No	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 30'

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT

**NEW LEGEND**

- 602 FINAL CONTOUR
- NEW CHANNEL
- LEACHATE COLLECTION SYSTEM
- M.H. MANHOLE
- CO CLEANOUT
- WET WELL WET WELL
- SHEET PILE WALL
- LIMIT OF CAP
- DRAINAGE DITCH SYSTEM
- INV. EL. 603.00 DRAINAGE DITCH INVERT ELEVATIONS
- GV GAS VENT
- RIPRAP

**SCALE VERIFICATION**

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

Approved

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

**SITE REMEDIATION-AS RECORDED**

**FORMER DISPOSAL AREA  
FINAL GRADE**

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D. WAGNER	Reviewed By: C. HEBERT	Date: JULY 2001
Scale: 1"=30'	Project No: 12609-09	Report No: 018
		Drawing No: C-10AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 30ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- 602 FINAL CONTOUR
- LEACHATE COLLECTION SYSTEM
- CO CLEANOUT
- WET WELL
- SHEET PILE WALL
- LIMIT OF CAP
- FENCE
- GAS VENT
- RIPRAP

**SCALE VERIFICATION**

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

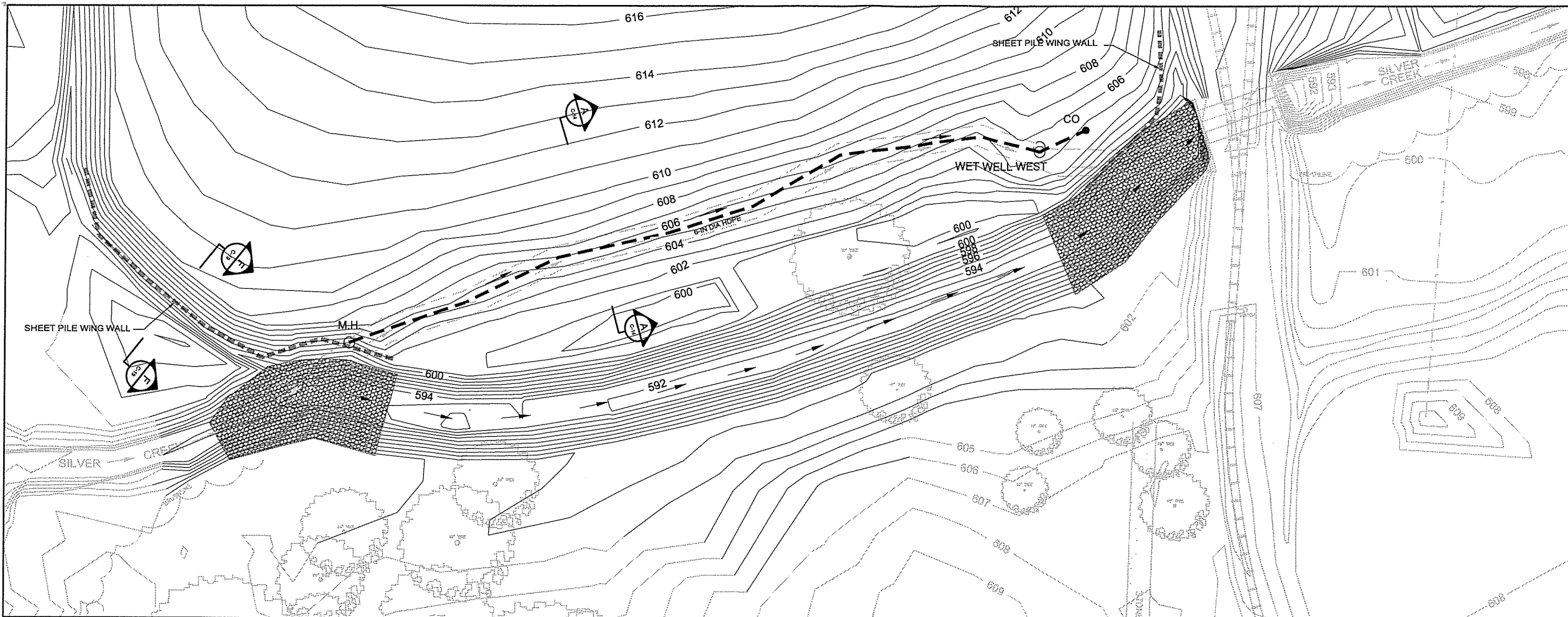
**SITE REMEDIATION-AS RECORDED**

**FORMER STORMWATER POND  
FINAL GRADE**



Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DWG No.35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=30'	Project No: 12609-09	Report No: 018
		Drawing No: C-11AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 30ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- ORIGINAL CHANNEL

**NEW LEGEND**

- 602 FINAL CONTOUR
- NEW CHANNEL
- LEACHATE COLLECTION SYSTEM
- M.H. MANHOLE
- CO CLEANOUT
- WET WELL WET WELL
- SHEET PILE WALL
- RIPRAP

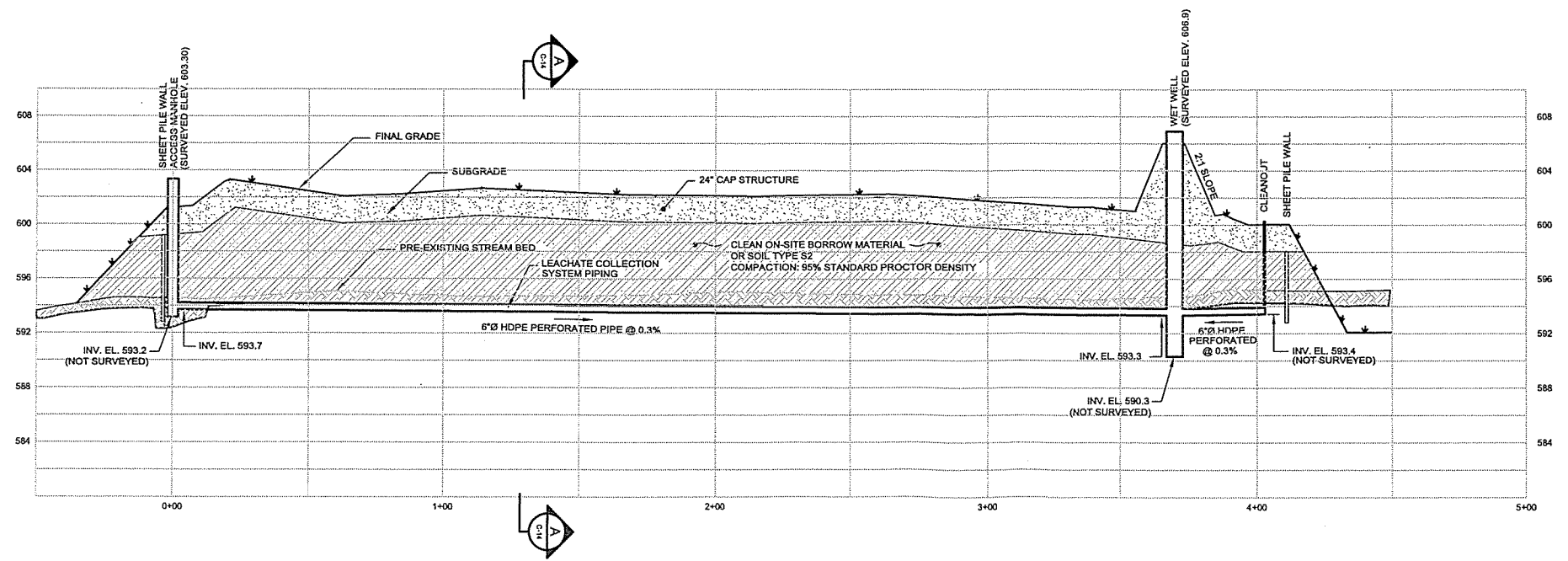
**SCALE VERIFICATION**

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial



**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

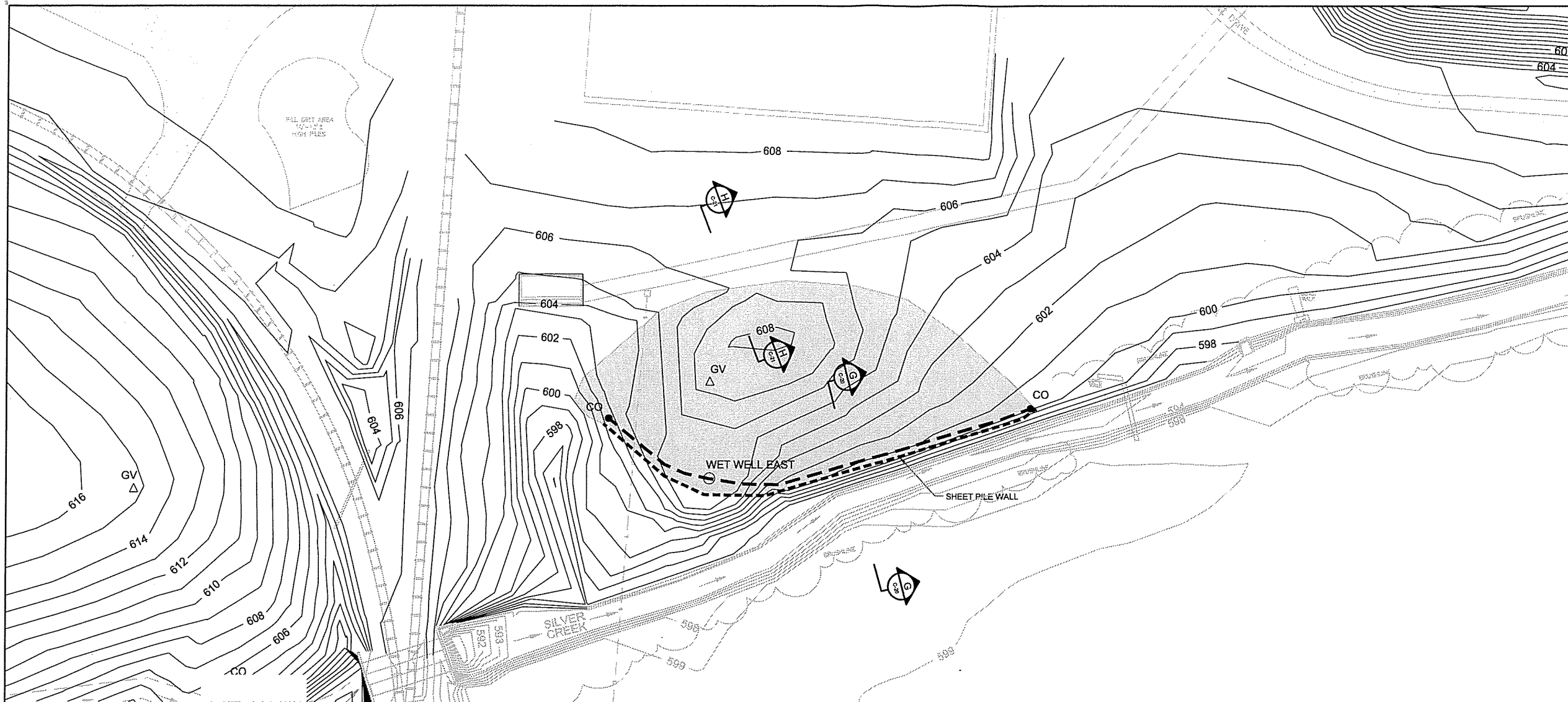
**SITE REMEDIATION-AS RECORDED**

**FORMER DISPOSAL AREA COLLECTION SYSTEM  
PLAN AND PROFILE**



Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ. 1"=30' VERT. 1"=6'	Project No: 12609-09	Report No: 018 Drawing No: C-12AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

0 10 30ft

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER

**NEW LEGEND**

- 602 FINAL CONTOUR
- LEACHATE COLLECTION SYSTEM
- M.H. MANHOLE
- CO CLEANOUT
- WET WELL
- SHEET PILE WALL
- LIMIT OF CAP
- GV GAS VENT

SCALE VERIFICATION

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

Approved

DRAWING STATUS

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

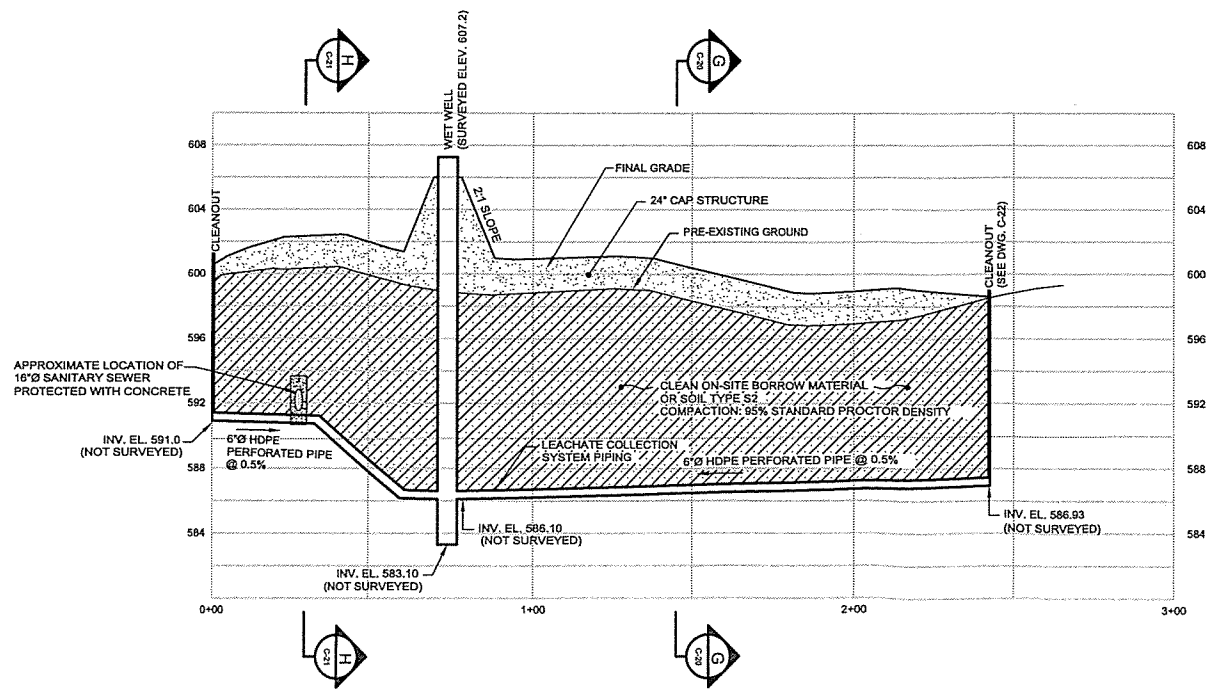
**SITE REMEDIATION-AS RECORDED**

**FORMER STORMWATER POND COLLECTION SYSTEM  
PLAN AND PROFILE**

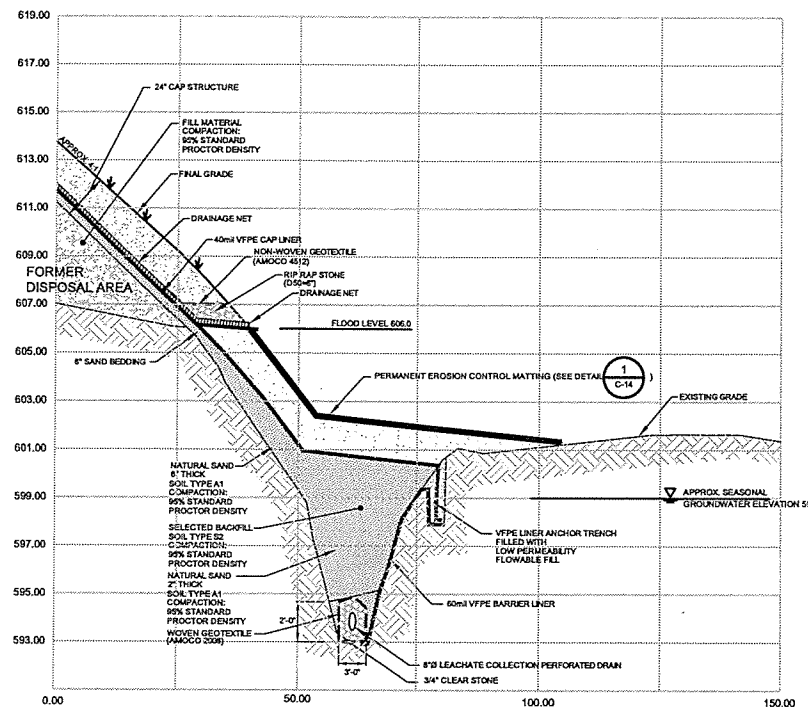
**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
NOVA SURVEYING AND MAPPING SERVICES

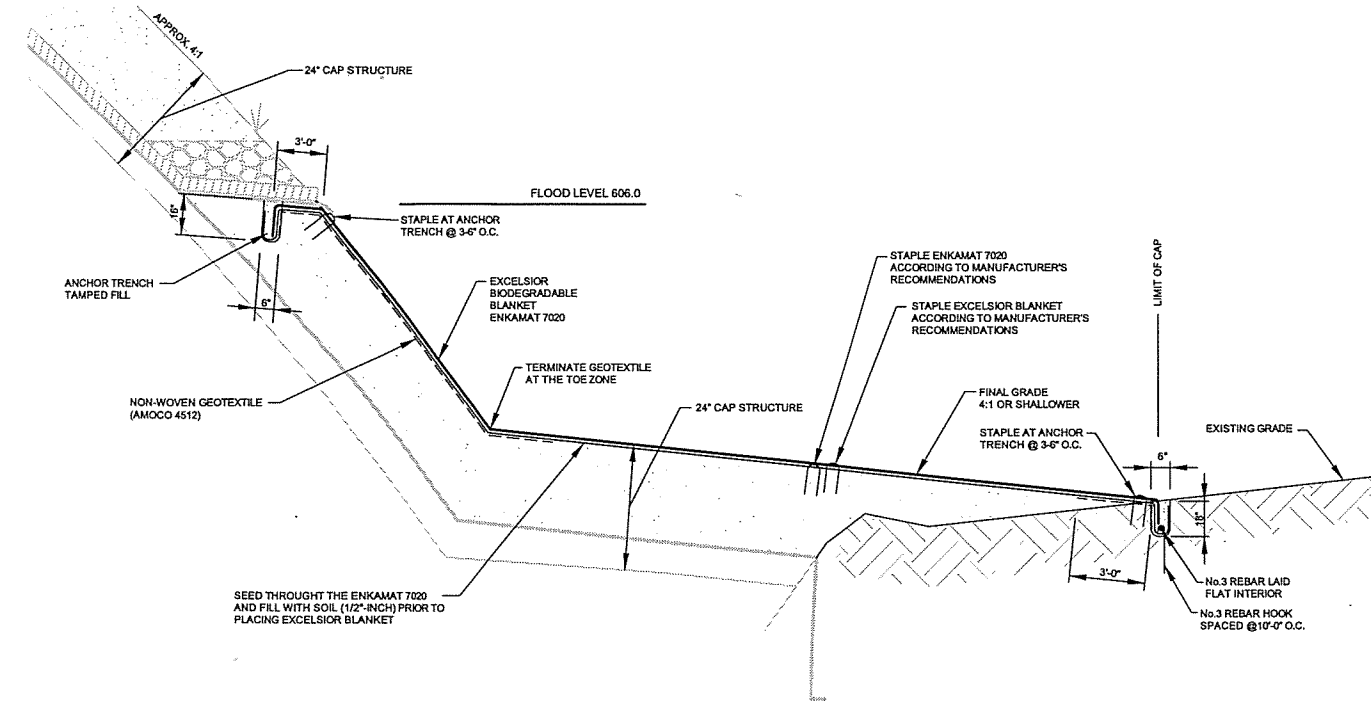
Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ. 1"=30' VERT. 1"=6'	Project No: 12609-09	Report No: 018 Drawing No: C-13AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



SECTION A  
 HORIZ: 1"=10'  
 VERT: 1"=2'



PERMANENT EROSION CONTROL MATTING DETAIL 1  
 N.T.S. C-14

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

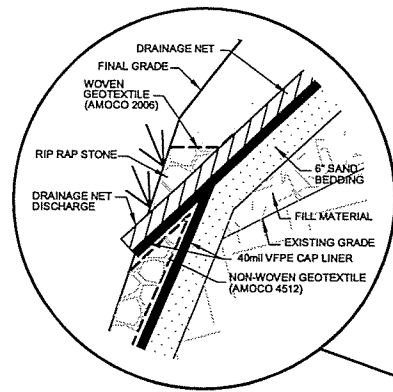
Approved

DRAWING STATUS		
Status	Date	Initial

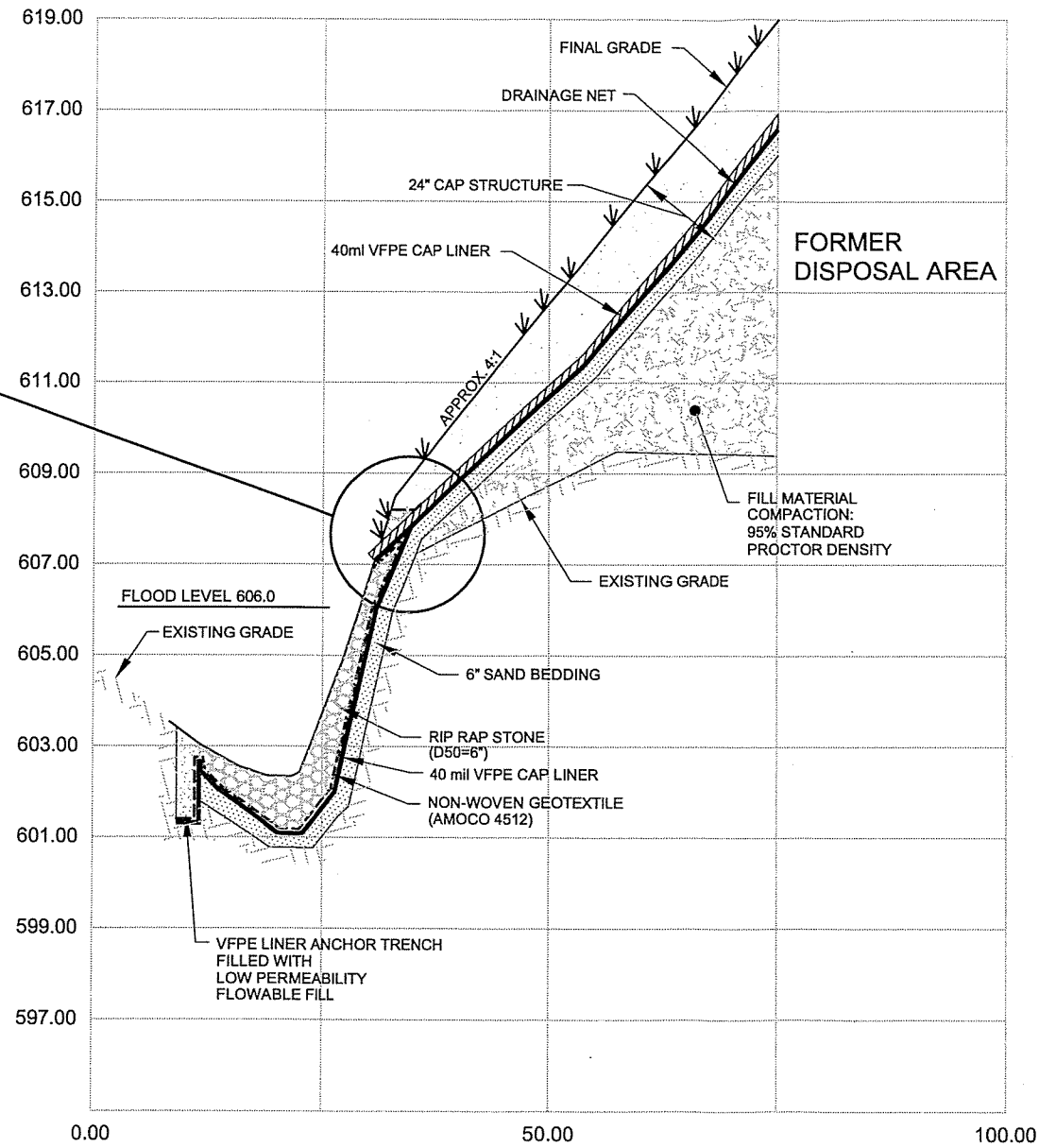
GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO  
 SITE REMEDIATION-AS RECORDED  
 SECTIONS  
 SHEET 1 OF 8



Source Reference:			
Project Manager: D. WAGNER	Reviewed By: C. HEBERT	Date: JULY 2001	
Scale: HORIZ: 1"=10' VERT: 1"=2'	Project No: 12609-09	Report No: 018	Drawing No: C-14AR



N.T.S.



SECTION **B**  
C-10

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

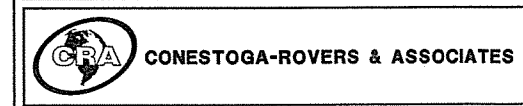
SCALE VERIFICATION  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

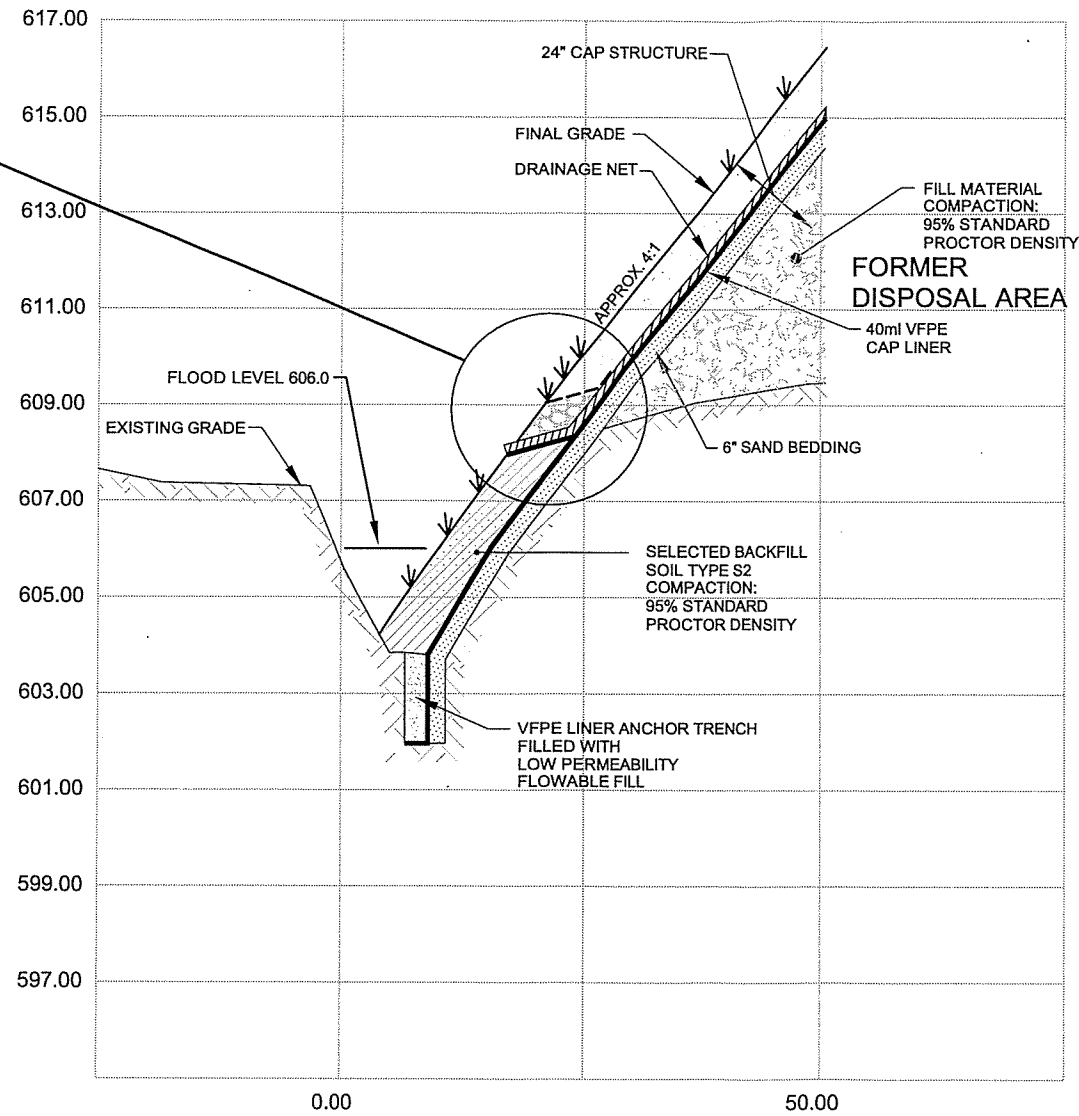
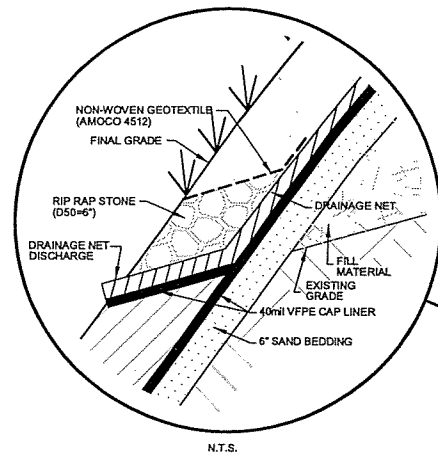
Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
SECTIONS  
SHEET 2 OF 8



Source Reference:

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=10' VERT: 1"=2'	Project No: 12609-09	Report No: 018 Drawing No: C-15AR



SECTION **C**  
C-10

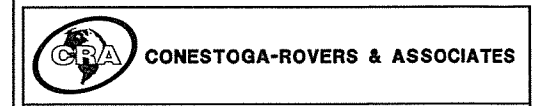
NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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

Approved

DRAWING STATUS		
Status	Date	Initial

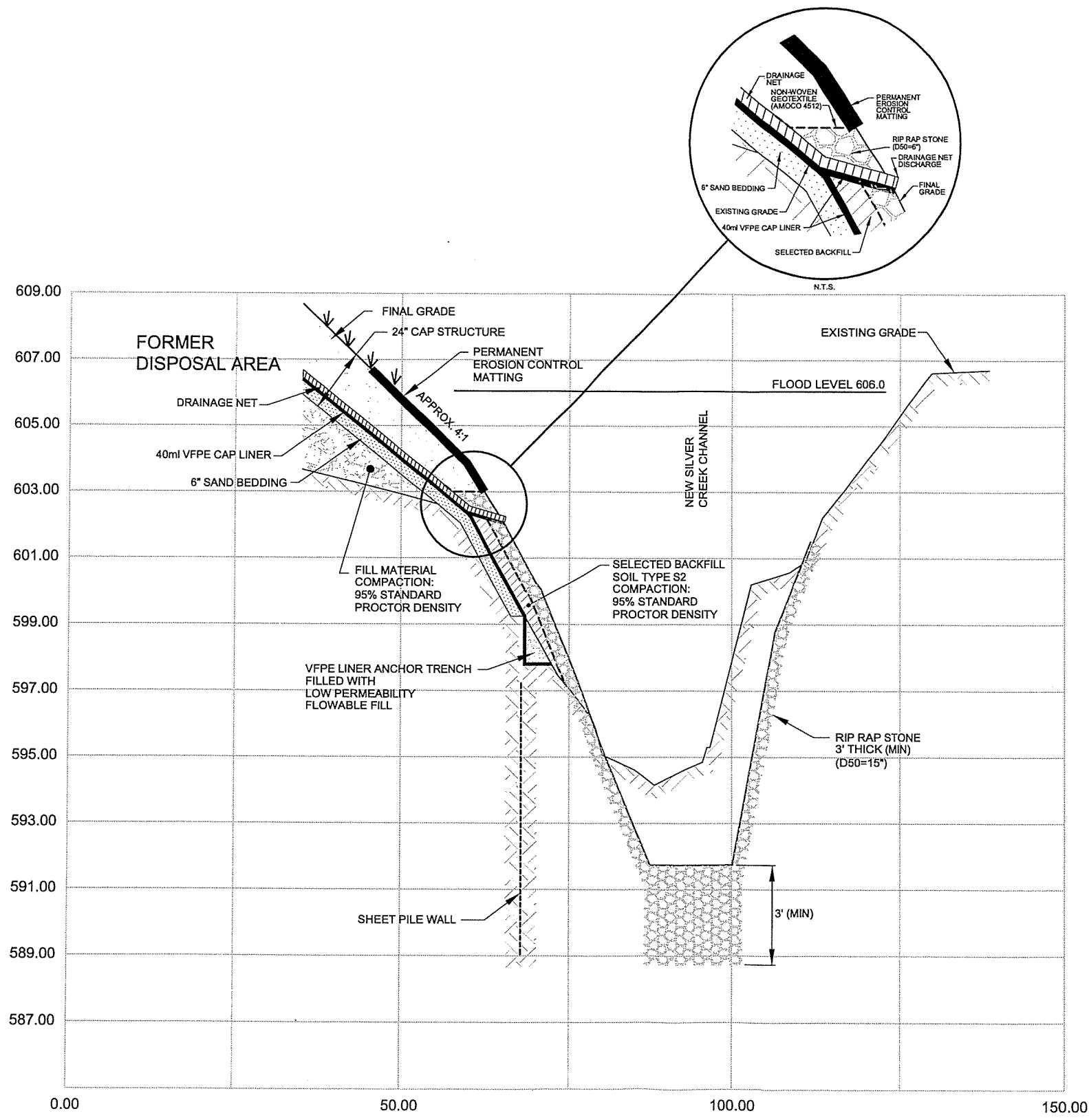
GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
SECTIONS  
SHEET 3 OF 8



Source Reference:		
Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=10' VERT: 1"=2'	Project No: 12609-09	Report No: 018 Drawing No: C-16AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



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

Approved

DRAWING STATUS

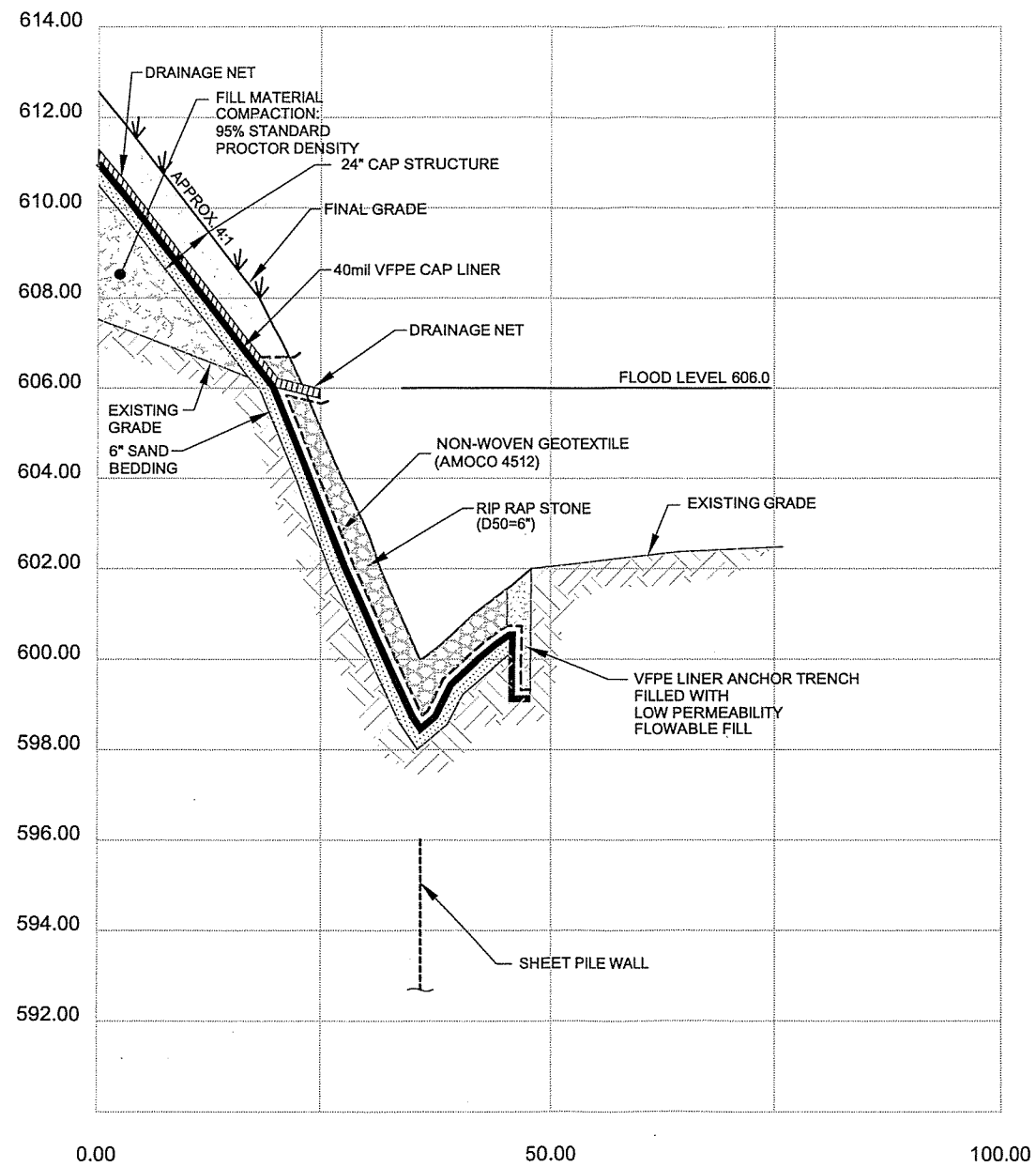
Status	Date	Initial

GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO  
 SITE REMEDIATION-AS RECORDED  
 SECTIONS  
 SHEET 5 OF 8



Source Reference:

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=10' VERT: 1"=2'	Project N <sup>o</sup> : 12609-09	Report N <sup>o</sup> : 018 Drawing N <sup>o</sup> : C-18AR



SECTION **F**  
C-10

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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

Approved

DRAWING STATUS

Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
SECTIONS  
SHEET 6 OF 8

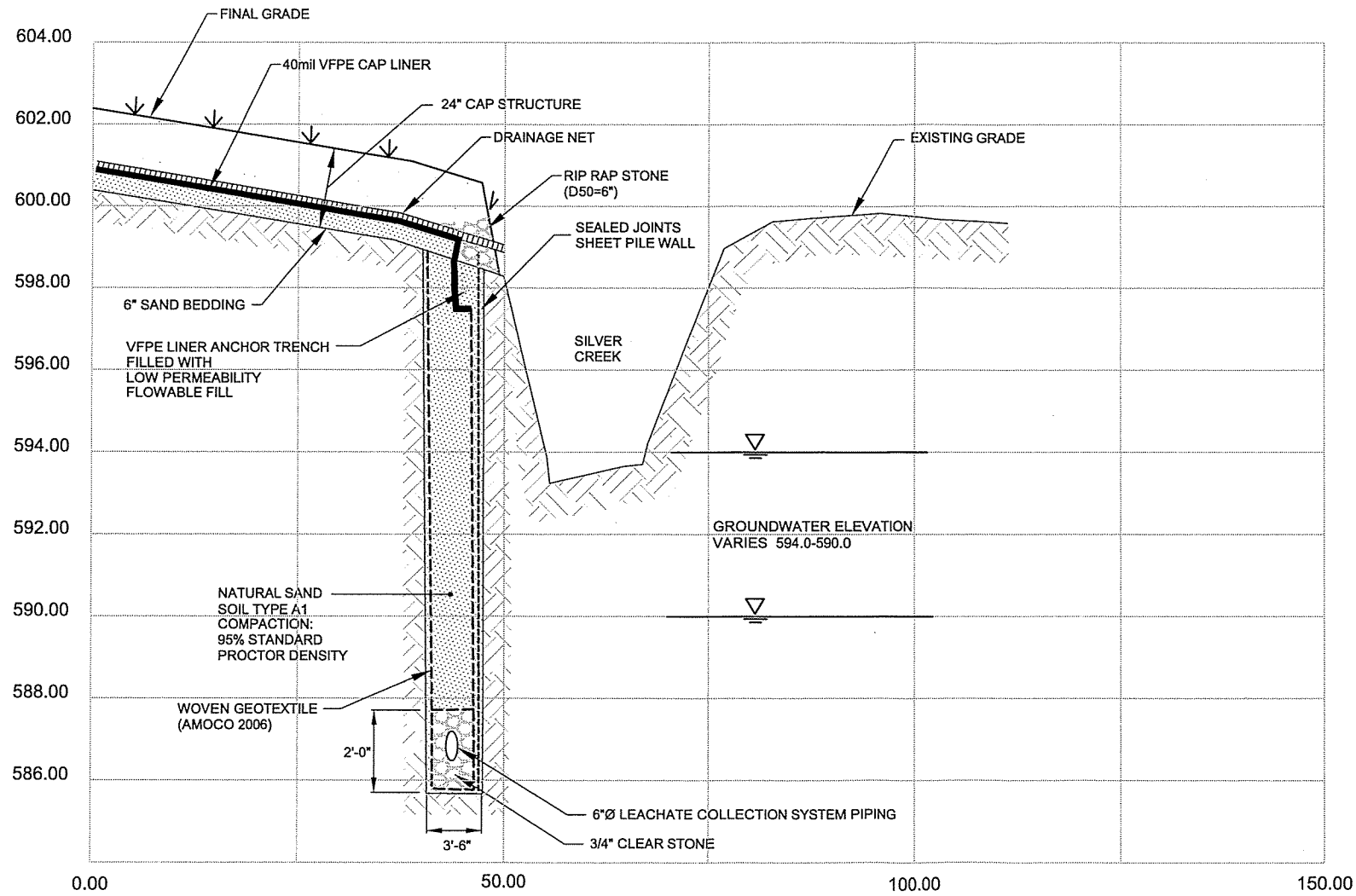


Source Reference:

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=10' VERT: 1"=2'	Project N#: 12609-09	Report N#: 018 Drawing N#: C-19AR

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

FORMER STORMWATER POND



SECTION **G**  
C-11

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

Approved

DRAWING STATUS

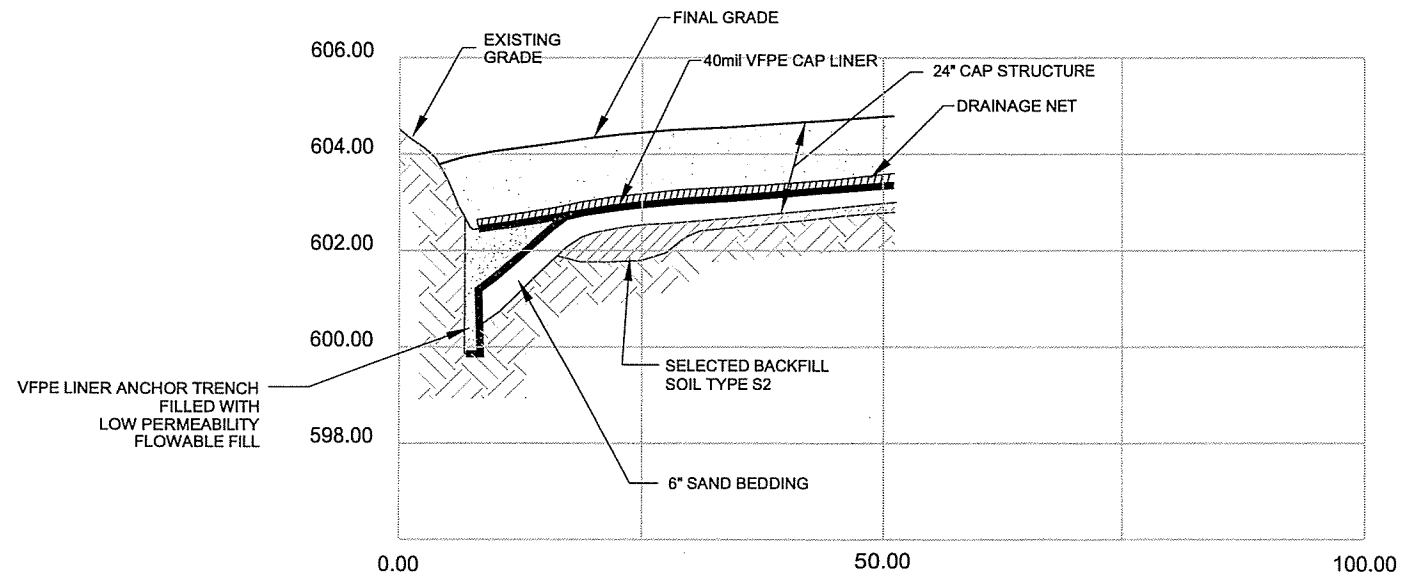
Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
SECTIONS  
SHEET 7 OF 9

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: HORIZ: 1"=10' VERT. 1"=2'	Project No: 12609-09	Report No: 018 Drawing No: C-20AR



SECTION H  
C-11

NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

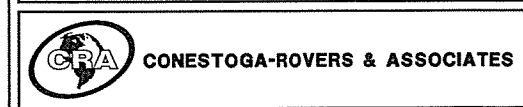
SCALE VERIFICATION  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

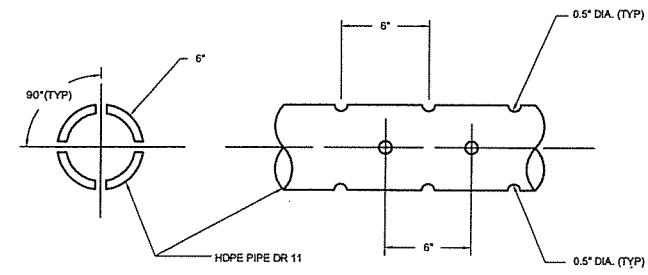
Status	Date	Initial

GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
SECTIONS  
SHEET 8 OF 8

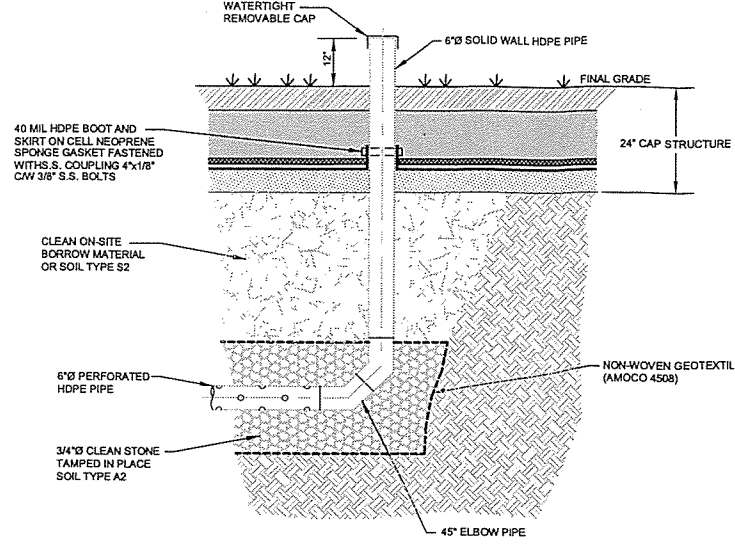


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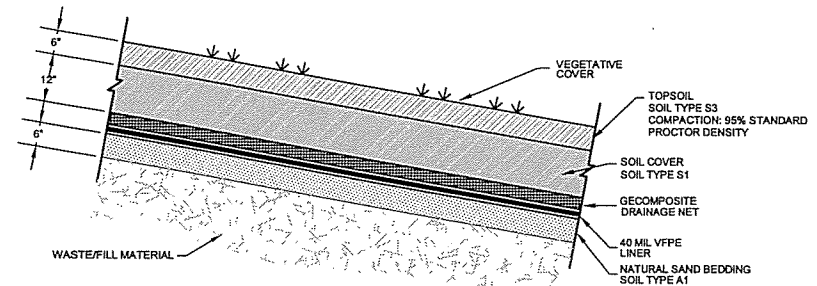
Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2000
Scale: HORIZ: 1"=10' VERT. 1"=2'	Project No: 12609-09	Report No: 018
		Drawing No: C-21AR



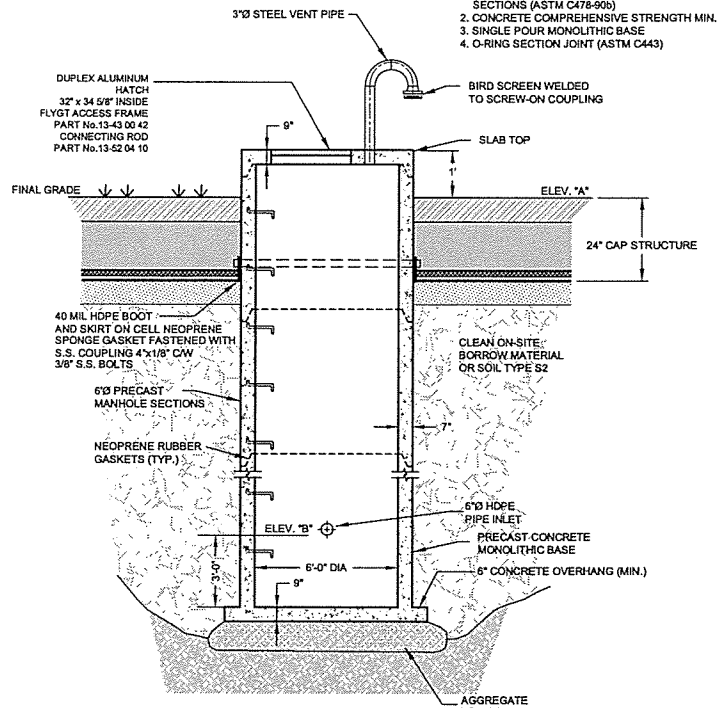
PERFORATED PIPE DETAIL  
N.T.S.



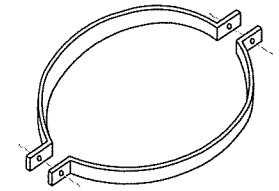
CLEAN-OUT DETAIL  
N.T.S.



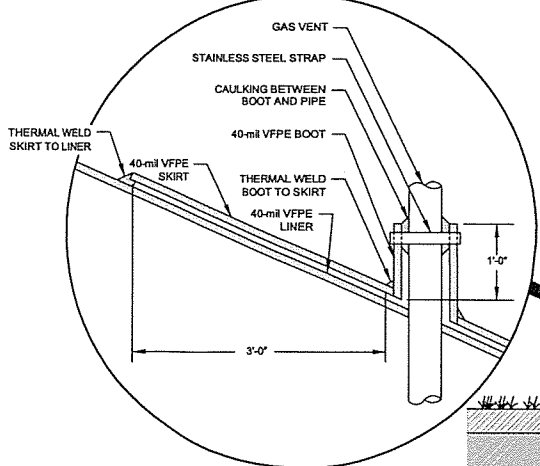
CAP STRUCTURE DETAIL  
N.T.S.



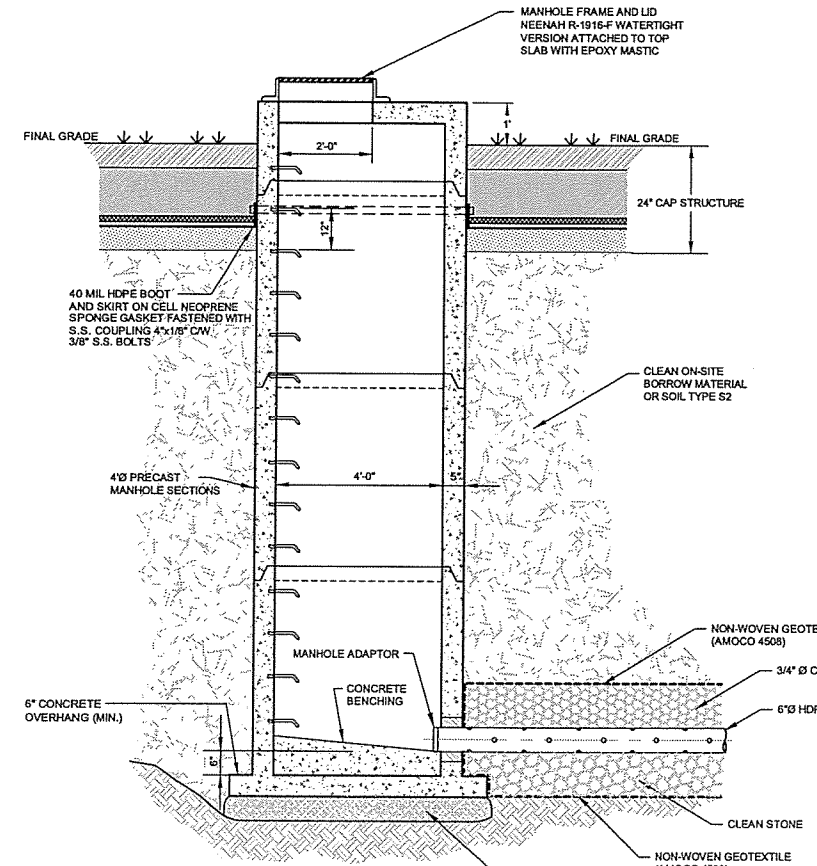
WET WELL DETAIL  
N.T.S.



COUPLING DETAIL  
N.T.S.

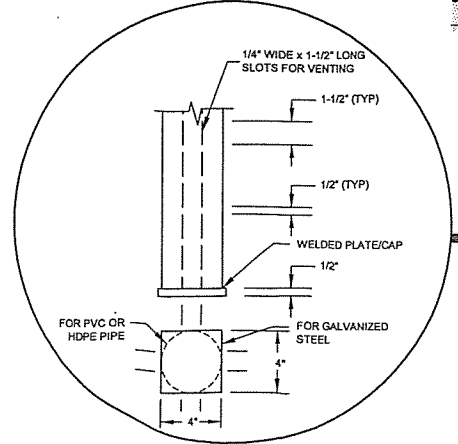


VFPE BOOT & SKIRT  
PLAN VIEW

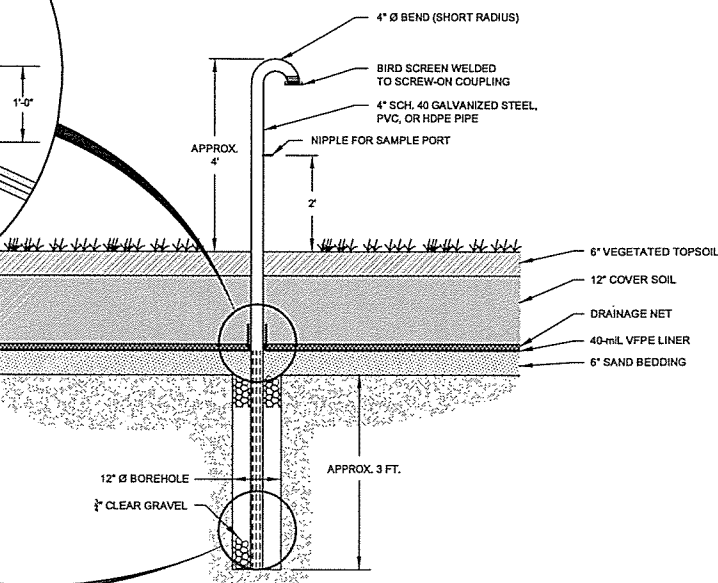


MANHOLE DETAIL  
N.T.S.

GENERAL NOTES:  
1. PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS (ASTM C478-90b)  
2. CONCRETE COMPRESSIVE STRENGTH MIN. 4000 psi  
3. SINGLE POUR MONOLITHIC BASE  
4. O-RING SECTION JOINT (ASTM C443)



TYPICAL GAS VENT WITH COLLECTOR PIPE DETAIL



	A	B
FORMER DISPOSAL AREA	605.9	593.3
FORMER STORMWATER POND	606.2	585.3

GENERAL NOTES:  
1. PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS (ASTM C478-90b)  
2. CONCRETE COMPRESSIVE STRENGTH MIN. 4000 psi  
3. SINGLE POUR MONOLITHIC BASE  
4. O-RING SECTION JOINT (ASTM C443)

NO.	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

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

Approved

DRAWING STATUS		
Status	Date	Initial

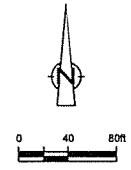
GENERAL MOTORS PROPERTY  
TOLEDO, OHIO  
SITE REMEDIATION-AS RECORDED  
DETAILS

**CRA** CONESTOGA-ROVERS & ASSOCIATES

Source Reference: NOVA SURVEYING AND MAPPING SERVICES (MH ELEV. AND INVERTS)			
Project Manager: D. WAGNER	Reviewed By: C. HEBERT	Date: JULY 2001	
Scale: N.T.S.	Project No.:	Report No.:	Drawing No.:
	12609-09	018	C-22AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



**LEGEND**  
 - - - - - SITE BOUNDARY (SURVEYED JULY 2000)  
 — x — x — NEW FENCE (INSTALLED 1 FOOT SOUTH OF SITE BOUNDARY)

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

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO**  
 SITE REMEDIATION-AS RECORDED  
 NEW FENCING

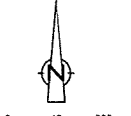


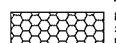

Source Reference:  
 ABRAMS AERIAL SURVEY CORP. NOV. 24, 1997 PHOTOGRAPHY  
 LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM  
 NOVA SURVEYING AND MAPPING SERVICES

Project Manager: D. WAGNER	Reviewed By: C. HEBERT	Date: JULY 2001
Scale: 1"=80'	Project No: 12609-09	Report No: 018
		Drawing No: C-23AR



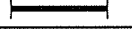
NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



**LEGEND**  
 PRE-EXISTING AREAS OF SATURATED SOILS AND HYDROPHITE GROWTH  
 NEW STREAM SIDE WET MEADOW AREAS

**SCALE VERIFICATION**

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



Approved

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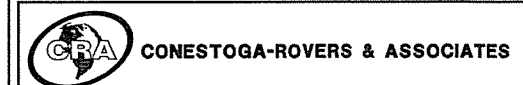
**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO**

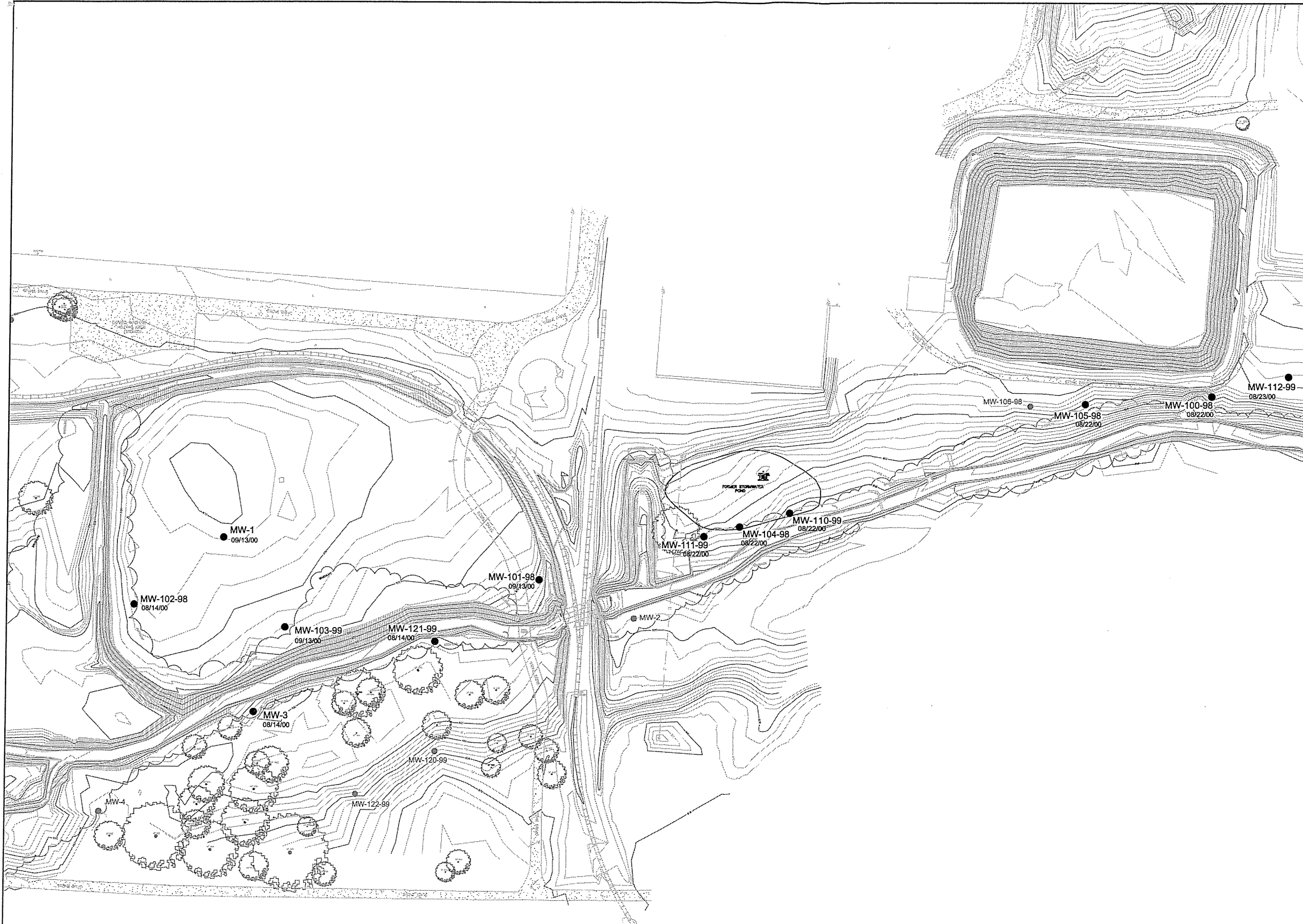
**SITE REMEDIATION-AS RECORDED**

**WETLANDS**

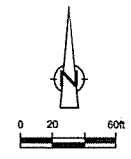


Source Reference:  
 ABRAMS AERIAL SURVEY CORP. NOV. 24, 1997 PHOTOGRAPHY

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=80'	Project No: 12609-09	Report No: 018
		Drawing No: C-24AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA



**LEGEND**  
 MW105-98 ● MONITORING WELL  
 MW-1 ● ABANDONED MONITORING WELL  
 09/13/00 DATE ABANDONED

**ABANDONMENT PROCEDURE:**  
 1. OVERDRILL WELL  
 2. REMOVE CASING  
 3. DISINFECT WELL  
 4. GROUT USING TREMIE

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

Approved \_\_\_\_\_

**DRAWING STATUS**

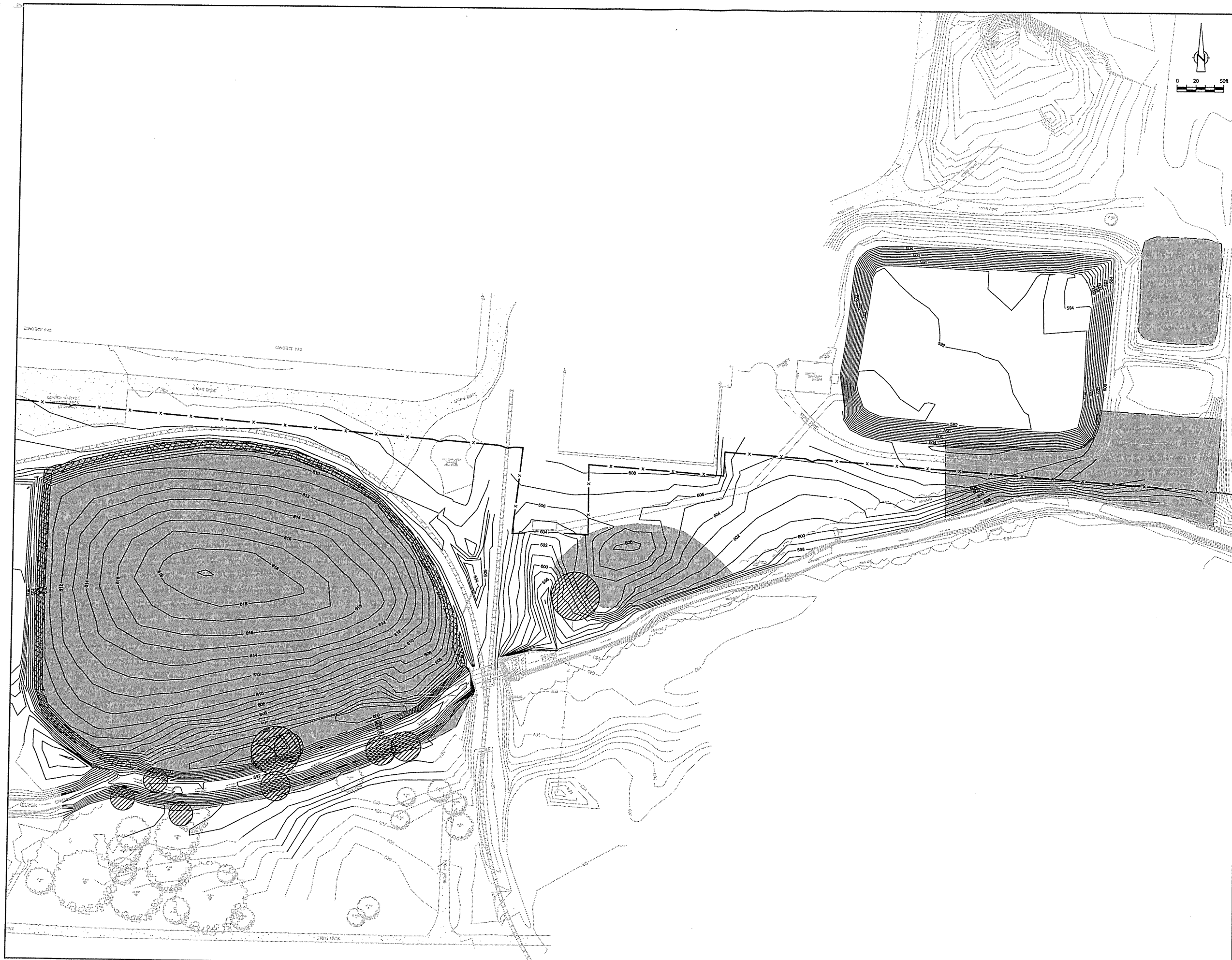
Status	Date	Initial

**GENERAL MOTORS PROPERTY  
 TOLEDO, OHIO**  
 SITE REMEDIATION-AS RECORDED  
 ABANDONED  
 MONITORING WELL LOCATIONS



Source Reference:  
 LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM

Project Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=60'	Project No: 12609-09	Report No: 018
		Drawing No: C-25AR



NO	Revision	Date	Initial
1	PEER REVIEWED	JUNE 2000	KCA

**EXISTING LEGEND**

- CONTOUR
- ROAD
- RAILROAD
- MANHOLE
- TREE
- BRUSHLINE/DENSE VEGETATION LIMIT
- SANITARY SEWER
- ORIGINAL CHANNEL

**NEW LEGEND**

- FINAL CONTOUR
- NEW CHANNEL
- IF SEEDING OCCURED AFTER OCT. 15 RYE OR SEED OATS (87 LB PER ACRE) AND STRAW EROSION MAT (875 NORTH AMERICAN GREEN) WERE ALSO USED.
- 50% (BY WEIGHT) BUFFALO GRASS AND 50% (BY WEIGHT) BLUE GRAMA GRASS. APPLY 1 LB BUFFALO AND 1 LB BLUE GRASS PER 750 SQUARE FEET.
- REMOVED TREE
- FENCE

NOTE: TREES TO BE REMOVED WILL BE CHIPPED, STOCKPILED AND SAMPLED

**SCALE VERIFICATION**

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

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GENERAL MOTORS PROPERTY  
TOLEDO, OHIO**

**SITE REMEDIATION-AS RECORDED**

**SEEDING AND TREE REMOVAL PLAN**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
LEWANDOWSKI ENGINEERS, TOLEDO, OHIO DRAWING No. 35010-GM

Projed Manager: D.WAGNER	Reviewed By: C.HEBERT	Date: JULY 2001
Scale: 1"=50'	Project N <sup>o</sup> : 12609-09	Report N <sup>o</sup> : 018
		Drawing N <sup>o</sup> : C-26AR