KRAFT POWER CORPORATION
MILLENNIUM DRIVE - NEOCOM PARK

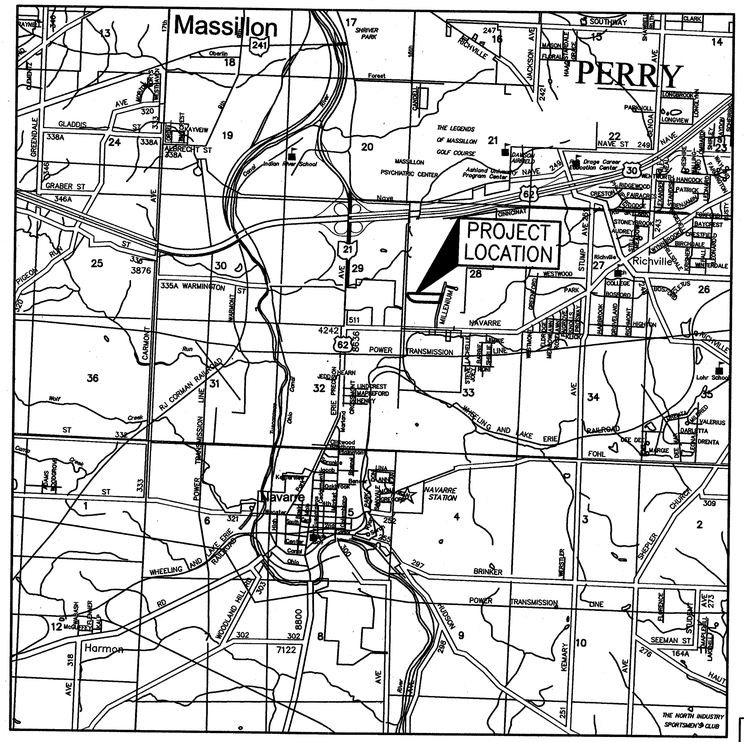
ALL OF O.L. 1041 IN THE CITY OF MASSILLON,
STARK COUNTY, OHIO

LEGEND

—R/W—	RIGHT-OF-WAY
—W—	WATER LINE
—S—	SANITARY SEWER LINE
—ST—	STORM SEWER LINE
—G—	GAS LINE
—UE—	UNDERGROUND ELECTRIC
— OE —	OVERHEAD ELECTRIC
—UT—	UNDERGROUND TELEPHONE
— OT —	OVERHEAD TELEPHONE
—X—X—	FENCE
	GAS LINE MARKER
	TELEPHONE LINE MARKER
	POWER POLE
	TELEPHONE POLE
	TELEPHONE, LIGHT POLE
	TELEPHONE, POWER POLE
	GENERAL POLE
	LIGHT POLE
	TYPE 5 GUARDRAIL
	ANCHOR
	SIGN
	CATCH BASIN (C.B.)
	MAN HOLE (AS LABELED)
	TRAFFIC CONTROL BOX
	FIRE HYDRANT
	VALVE (AS LABELED)
	MAIL BOX
	GUARD POST
CO	CLEAN OUT
DS	DOWN SPOUT
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR ELEVATION
FP	FLAG POLE
RD	ROOF DRAIN

INDEX OF SHEETS

1. COVER SHEET
2. EXISTING TOPOGRAPHIC MAP
3. SITE DIMENSION PLAN
4. SITE GRADING PLAN
5. SITE UTILITY PLAN
6. DETENTION BASIN PLAN
7. SITE NOTES & DETAILS
8. SITE NOTES & DETAILS
9. SOIL EROSION CONTROL PLAN
10. SOIL EROSION CONTROL NOTES & DETAILS
11. SOIL EROSION CONTROL NOTES & DETAILS



VICINITY MAP

0 3000 6000 12000

SCALE: 1" = 3000'

GENERAL NOTES

1. PRIOR TO THE COMMENCEMENT OF ANY PROJECT, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CITY OF MASSILLON ENGINEER & THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT. AT THIS TIME, THE PROJECT WILL BE DISCUSSED IN REGARD TO PROCEDURE, MATERIALS, INSPECTION, ETC...
2. REFER TO SOILS REPORT FOR ALL SITE REQUIREMENTS ON COMPACTION, FILLING, FOUNDATION AND PAVEMENT SECTION REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED ON THE SITE NO MORE THAN TEN DAYS AND NO LESS THAN 48 HOURS IN ADVANCE OF EXCAVATION (ORC 3781.28).
4. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
5. ALL TRENCHES BENEATH THE PAVEMENT SHALL BE COMPACTED IN LIFTS AND WITH MATERIAL SPECIFIED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT OR ANY APPLICABLE O.D.O.T. SPECIFICATIONS.
6. PAVEMENT MARKINGS SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, JANUARY 1, 2005, ITEMS 641, 642 AND 740.
7. REFER TO FOUNDATION PLANS FOR DIMENSIONS OF BUILDING.
8. CONTRACTOR IS NOT EXEMPT FROM COMPLIANCE WITH LOCAL COUNTY EROSION / SEDIMENT CONTROL REGULATIONS. CONTRACTOR TO INSTALL AND MAINTAIN EROSION / SEDIMENT CONTROL PRACTICES TO PREVENT SEDIMENT FROM DEPOSITING INTO LOCAL STORM SEWERS, DITCHES, ONTO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. THIS PLAN INDICATES MINIMUM EROSION CONTROL PRACTICES TO USE SUCH AS SILT FENCE, INLET PROTECTION AND ROCK CONSTRUCTION ENTRANCE.
9. ALL STREET PAVEMENT THAT IS DISTURBED DURING THE INSTALLATION OF CURB, DRIVEWAYS, SIDEWALKS AND UTILITY INSTALLATION IS TO BE REPAIRED TO THE SATISFACTION OF THE CITY OF MASSILLON ENGINEER.
10. CONCRETE PERMITS ARE REQUIRED FOR THE NEW DRIVEWAY AND SIDEWALK AREAS. DRIVES AND WALKS ARE TO BE INSTALLED PER CITY OF MASSILLON STANDARDS. CONTACT MASSILLON CITY ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS.

APPROVALS

APPROVED BY THE MASSILLON CITY ENGINEER THIS 21ST DAY OF JUNE, 2007.

KEITH A. DYLEWSKI, PE

ONLY APPROVED SIGNED PLANS BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.

OHIO EPA STORM WATER GENERAL PERMIT NUMBER: 3GC36203205*AG

APPROVED BY STARK SOIL AND WATER CONSERVATION DISTRICT
BY LETTER DATED 5/21/07

ISSUED
JUN 21 2007
HAMMONTREE & ASSOCIATES, LTD.

Barbara Hammontree Bennett P.E. 6/21/07
BARBARA HAMMONTREE BENNETT P.E. #E-56001 DATE

STATE OF OHIO
BARBARA HAMMONTREE BENNETT
E-56001
REGISTERED
PROFESSIONAL ENGINEER

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

BENCHMARK: (B.M. #1)
CHISELED "+" ON TOP OF N.W. BOLT ON BASE OF LIGHT POLE ON W. SIDE OF MILLENIUM BLVD., STA. 22+97, 31' LT.
ELEV. = 1022.34

ENGINEER/SURVEYOR

HAMMONTREE & ASSOCIATES, LTD.
5233 STONEHAM ROAD
NORTH CANTON, OHIO 44720
PHONE: (330) 499-8817
FAX: (330) 499-0149

DEVELOPER

ROSEMAN BUILDING CORPORATION
1211 3RD STREET NW
MASSILLON, OHIO 44647
CONTACT: SEAN ROSEMAN
PHONE: (330) 830-4655

OWNER

MASSILLON MILLENIUM LLC
c/o KRAFT POWER CORPORATION
608 CLEVELAND AVE. S.W.
CANTON, OHIO 44702
CONTACT: DON McKINNEY
PHONE: (330) 455-7096

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS, PLANNERS, SURVEYORS
CANTON PITTSBURGH AKRON
5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720
PHONE: CANTON(330)/499-8817 AKRON(330)/833-7274
TOLL FREE: 1-800-394-8817 FAX: (330)/499-0149
www.hammontree-engineers.com

REV. BY:	DATE:	DESC.:	
REV. BY:	DATE:	DESC.:	
REV. BY:	DATE:	DESC.:	
REV. BY:	DATE:	DESC.:	
REV. BY: DTM	DATE: 5/31/07	DESC.:	REV. VICINITY MAP & GENERAL NOTE # 1
REV. BY: DTM	DATE: 5/18/07	DESC.:	ADDED OHIO EPA STORM WATER GENERAL PERMIT NUMBER

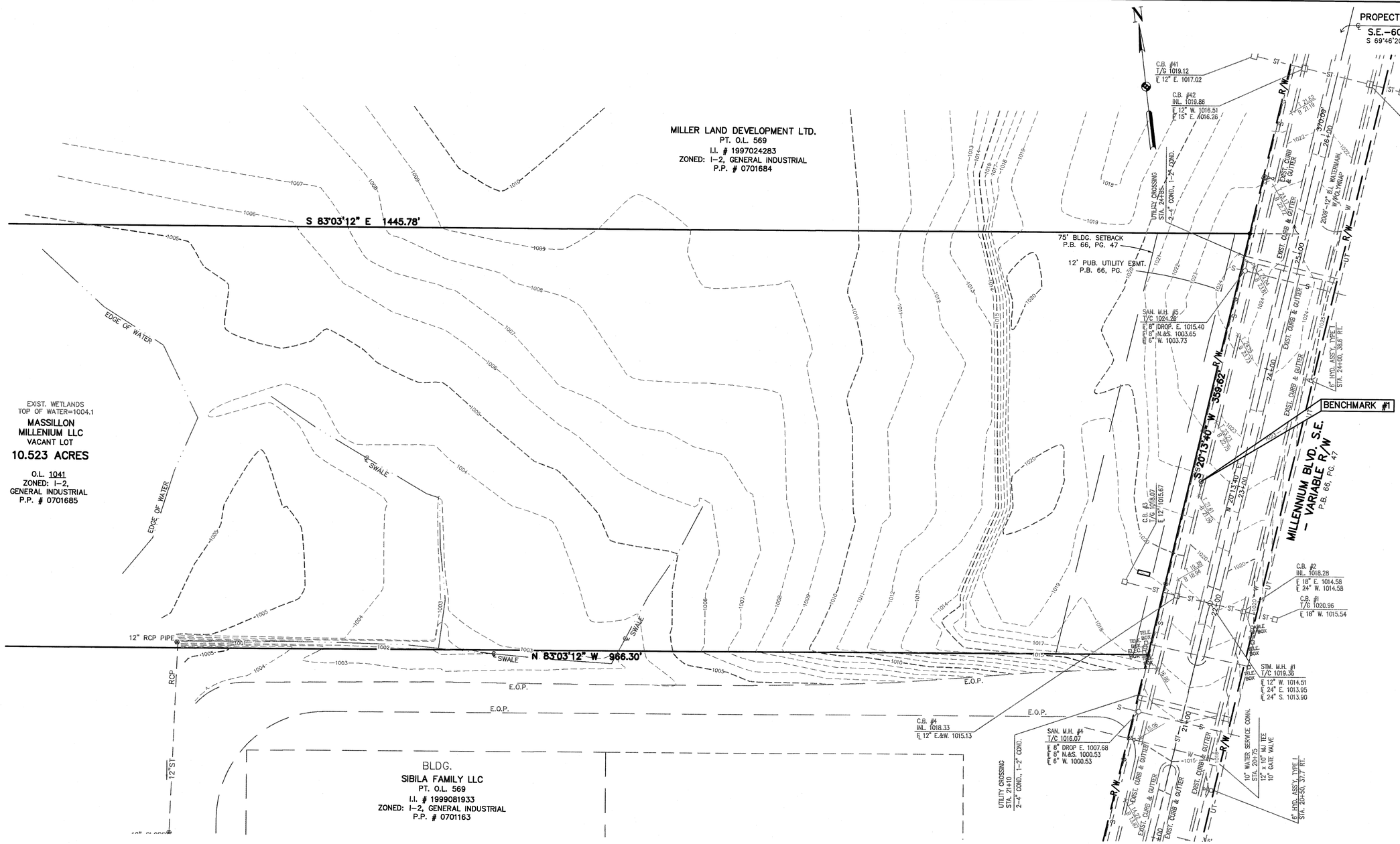
R:\CORPORATION\MASSILLON\DWG_DETAILS.DWG

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: SHM RVWD. BY: BHB
F.B.____ PAGE:____
COPYRIGHT: 2007 DATE: 5/8/07
LAYOUT: TAB: COVER

SCALES:
N.T.S.

COVER SHEET
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

KRAFT – MASSILLON



DATA USED

TAX MAP – PERRY 28 & MASSILLON 115 & 125
PLAT – N.E.O. COM. PARK – PHASE 1, P.B. 62, PG. 94
NEOCOM I INDUSTRIAL PARK NO. 1, P.B. 66, PG. 47
NEOCOM I INDUSTRIAL PARK NO. 2, O.R.I.NO. 200212230104958
ANNEXATION PLAT – NAVE-ERIE AREA ANNEXATION
BY R.F. WAGONER, 2/83
DEEDS – VOL. 3431, PG. 721
VOL. 3597, PG. 658
O.R. VOL. 827, PG. 801
I.I. # 97024283

BASIS OF BEARINGS

N 83°03'12" W – THE CENTERLINE OF NAVARRE ROAD FROM THE PLAT OF N.E.O. COM. PARK – PHASE 1 AS RECORDED IN PLAT BOOK 62, PAGE 94 OF THE STARK COUNTY PLAT RECORDS.

® HAMMONTREE & ASSOCIATES, LTD.
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PHONE: CANTON:(330)499-8817 AKRON:(330)833-7274
TOLL FREE: 1-800-394-8817 FAX: (330)499-0149
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DESN. BY: DTM CHKD. BY: BHB
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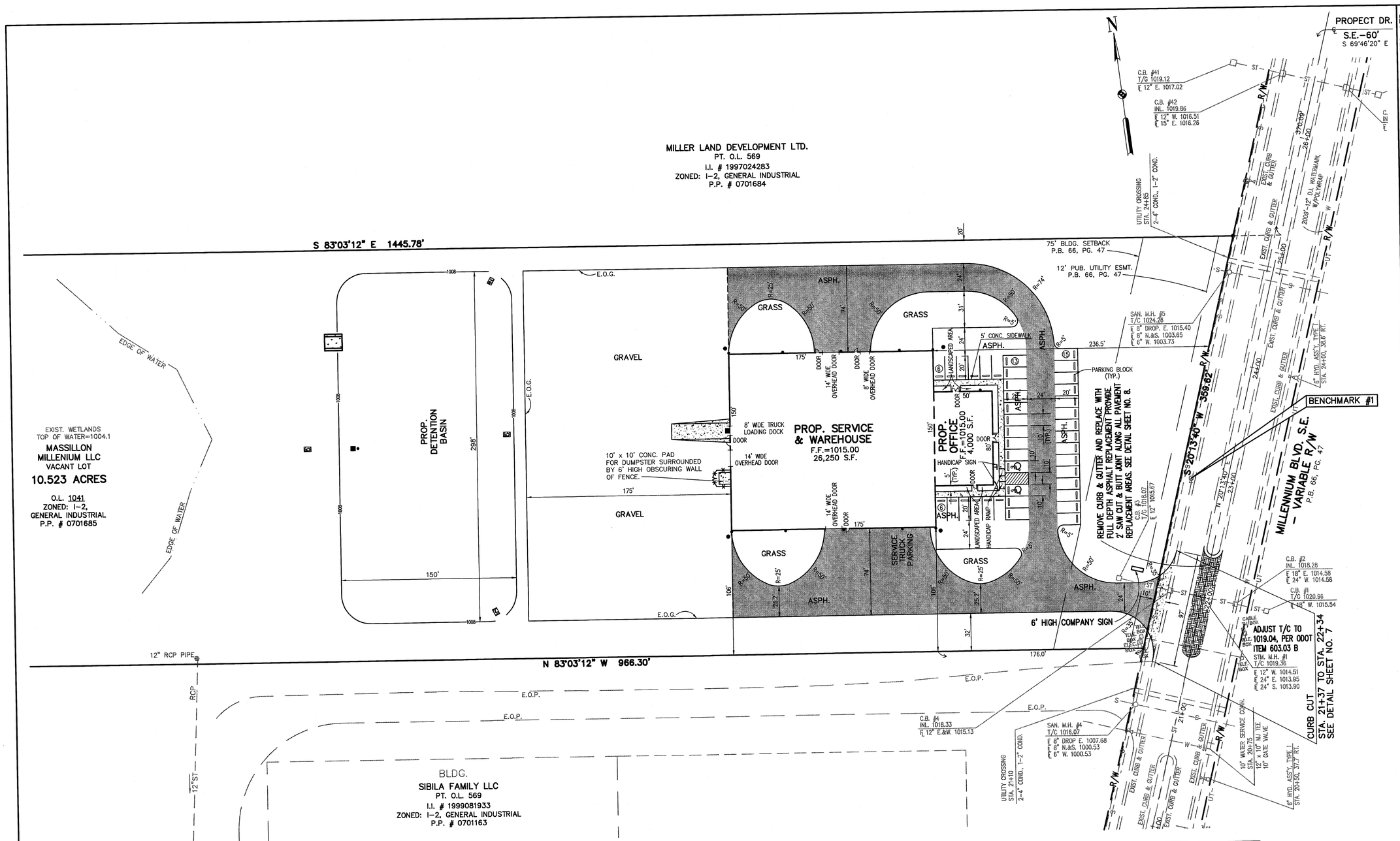
F.B.____ PAGE:____
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT: EXIST. TOPO

SCALES:
HORIZ: 1"=40'
CONTOUR INT.=1'

EXISTING TOPOGRAPHIC MAP
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

ROSEMAN–MILLENIUM



DATA USED

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NEOCOM I INDUSTRIAL PARK NO. 1, P.B. 66, PG. 47
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N 83°03'12" W – THE CENTERLINE OF NAVARRE ROAD FROM THE PLAT OF N.E.O. COM. PARK – PHASE 1 AS RECORDED IN PLAT BOOK 62, PAGE 94 OF THE STARK COUNTY PLAT RECORDS.

NOTES

DRIVEWAY PERMITS WILL BE REQUIRED BY THE CITY OF MASSILLON. CONTACT ENGINEERING DEPARTMENT (330-830-1722) FOR LICENSE AND PERMIT REQUIREMENTS.

SEE DRIVEWAY APPROACH DETAIL ON SHEET NO. 7.

DENOTES HEAVY DUTY TRUCK PAVEMENT, SEE DETAIL SHEET NO. 8.

ZONING

CURRENT ZONING: I-2, GENERAL INDUSTRIAL

INTENDED USE: WAREHOUSE (1 SHIFT, 20 EMPLOYEES)

PARKING REQUIRED: 25 SPACES (1 PER EACH EMPLOYEE + 5 SPACES)

PARKING PROVIDED: 40 SPACES

CONTRACTOR

ROSEMAN BUILDING CORPORATION
1211 3rd ST. N.W.
P.O. BOX 295
MASSILLON, OHIO 44648
(330) 830-4655

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS, PLANNERS, SURVEYORS
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5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720
PHONE: CANTON:(330)494-8817 AKRON:(330)633-7274
TOLL FREE: 1-800-362-8817 FAX: (330)499-0149
www.hammontree-engineers.com

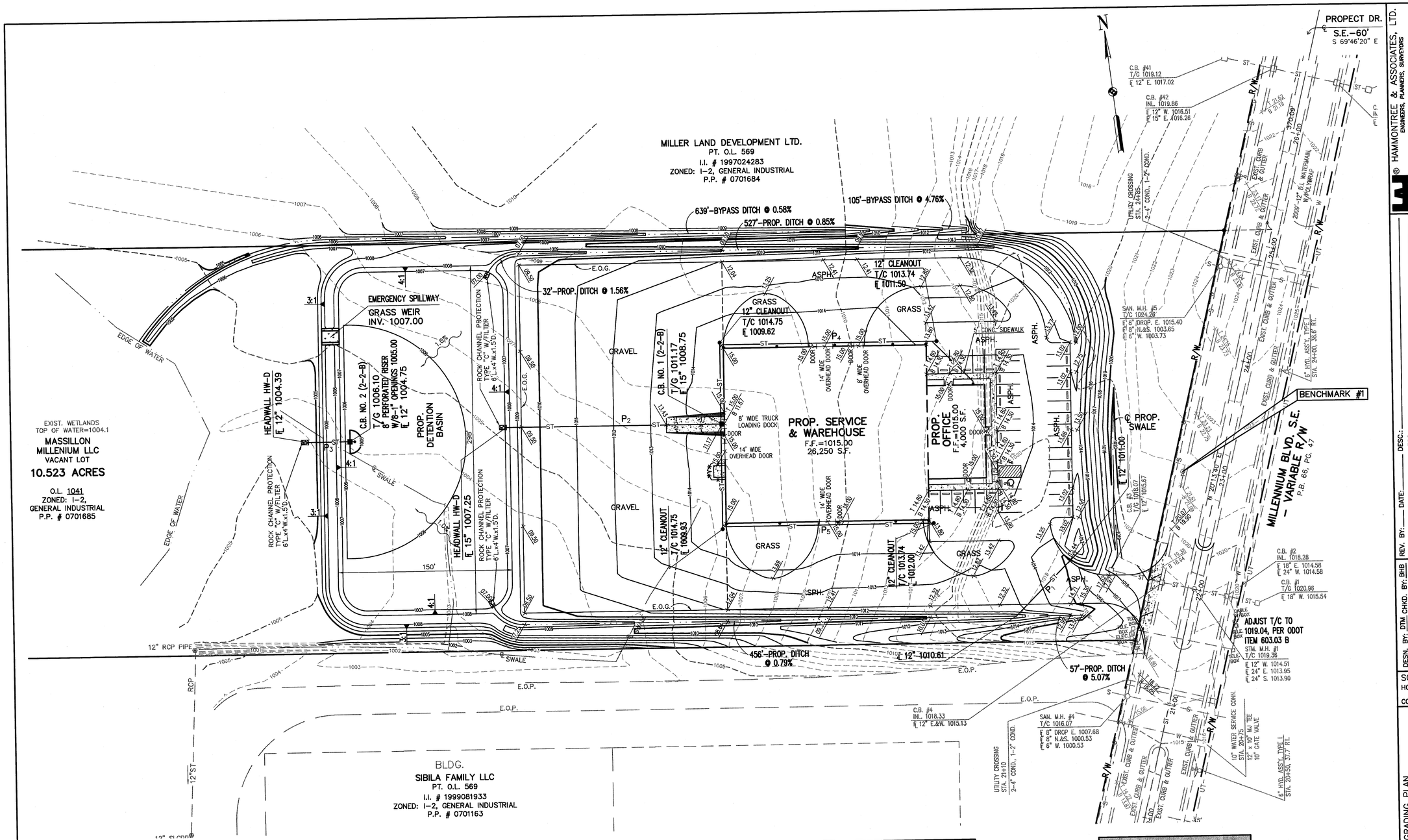
REV. BY: ___	DATE: ___	DESC.: ___
REV. BY: ___	DATE: ___	DESC.: ___
REV. BY: ___	DATE: ___	DESC.: ___
REV. BY: ___	DATE: ___	DESC.: ___
REV. BY: DTM	DATE: 6/1/07	DESC.: ADDED BUSINESS SIGN, REV. ENTRANCE DRIVE, ADJUSTED T/C
REV. BY: DTM	DATE: 5/9/07	DESC.: FOR STM. M.H. #1 & REV. ASPH. REPLACEMENT FOR ISLAND

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: DTM RVWD. BY: BHB
F.B.___ PAGE:___
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT: DIMENSION
E:\STARK\CITY\MASSILLON\125\VISMILLN\MASE.DWG

SCALES:
HORIZ: 1"=40'

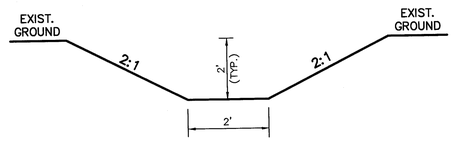
SITE DIMENSION PLAN
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

ROSEMAN-MILLENIUM



TYPICAL DITCH SECTION

N.T.S.



NOTES

TOPOGRAPHIC INFORMATION BASED ON SURVEY BY HAMMONTREE & ASSOCIATES, LTD., DATED 4/18/07.

SUBJECT SITE IS LOCATED IN ZONE C WHICH IS DEFINED AS "AREAS OF MINIMAL FLOODING" FROM COMMUNITY PANEL NO. 390780 0100 B, DATED SEPTEMBER 1, 1983.

CONTRACTOR

ROSEMAN BUILDING CORPORATION
1211 3rd ST. N.W.
P.O. BOX 295
MASSILLON, OHIO 44648
(330) 830-4655

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

BENCHMARK: (B.M. #1)
CHISELED "+" ON TOP OF N.W. BOLT ON BASE OF LIGHT POLE ON W. SIDE OF MILLENIUM BLVD., STA. 22+97, 31' LT.
ELEV. = 1022.34

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TOLL FREE: 1-800-364-8817 FAX: (330)/499-0149
www.hammontree-engineers.com

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REV. BY:___	DATE:___	DESC.:___	
REV. BY:___	DATE:___	DESC.:___	
REV. BY:___	DATE:___	DESC.:___	
REV. BY:___	DATE:___	DESC.:___	
REV. BY: DTM	DATE: 6/4/07	DESC.: ADDED GRADING FOR BY-PASS DITCH, ADDED CONTOUR LABELS	
REV. BY:___	DATE:___	DESC.: REV. F.F. LABEL, REV. GRAD. FOR SPILLWAY & REV. B.M. LABEL	
REV. BY:___	DATE:___	DESC.:___	
R:\STORM\CITY\MASSILLON\1051\ROSMILLN\SPIRE.DWG			

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: DTM R/WD. BY: BHB
F.B.___ PAGE:___
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT: GRADING

SCALES:
HORIZ: 1"=40'
CONTOUR INT.=1'

SITE GRADING PLAN
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

ROSEMAN-MILLENIUM

UTILITY NOTES

1. EXISTING UTILITIES TO REMAIN, WHICH ARE CRUSHED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

3. ANY UTILITIES FOUND DURING EXCAVATION, NOT SHOWN ON PLAN, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND/OR ENGINEER.

4. EACH SUBCONTRACTOR SHALL OBTAIN HIS OWN PERMITS AND CONTACT THE UTILITY COMPANY FOR VERIFICATION AND LOCATION OF HOOK-UP PRIOR TO ANY WORK BEING DONE.

5. UTILITIES SHOWN WERE TAKEN FROM RECORDS OF RESPECTIVE UTILITY COMPANIES AND FROM A TOPOGRAPHIC SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND OR OVERHEAD UTILITIES ADJACENT TO OR UPON THE PREMISES SHOWN ON THE PLAN. CALL OUPS PRIOR TO EXCAVATION.

6. COORDINATE UTILITY CONNECTIONS AT THE BUILDING WITH THE MECHANICAL DRAWINGS.

7. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF BUILDING SEWERS TOWARDS THE LATERAL SEWER IN STRICT ACCORDANCE WITH THE GOVERNING AUTHORITIES PRIOR TO STARTING CONTRUCTION.

8. ALL UTILITIES SHALL BE UNDERGROUND.

9. ALL STORM SEWER SHALL CONFORM TO ODOT ITEM 707.33 OR ITEM 706.02.

10. SANITARY LATERAL SHALL BE A MINIMUM 6" DIAMETER OF PVC PIPE, ASTM D3034, SDR35, WITH RUBBER GASKET JOINTS OR APPROVED EQUAL. LATERAL SHALL BE CONSTRUCTED WITH A MINIMUM OF 1% SLOPE, AND HAVE A MINIMUM OF 3 FOOT OF COVER.

11. ALL WATER SERVICE LATERALS 2 INCHES AND SMALLER SHALL BE TYPE "K" COPPER. SERVICE LATERALS LARGER THAN 2 INCHES SHALL BE DUCTILE IRON PIPE AND SHALL HAVE 5 FEET OF COVER. ALL BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY AQUA OHIO WATER COMPANY.

12. CONTRACTOR TO REFER TO SITE ELECTRICAL PLAN FOR SITE LIGHTING AND ELECTRICAL SERVICE.

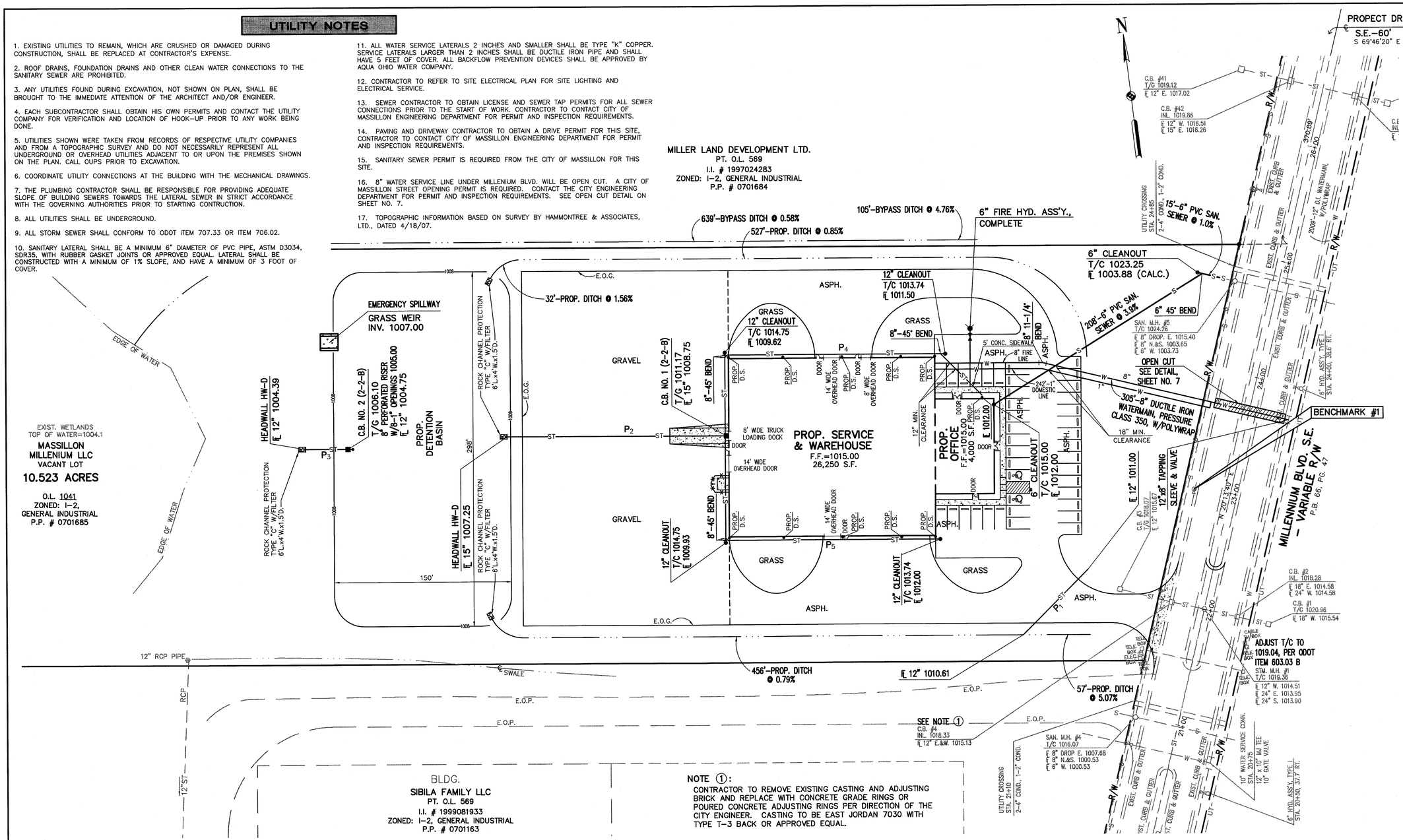
13. SEWER CONTRACTOR TO OBTAIN LICENSE AND SEWER TAP PERMITS FOR ALL SEWER CONNECTIONS PRIOR TO THE START OF WORK. CONTRACTOR TO CONTACT CITY OF MASSILLON ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS.

14. PAVING AND DRIVEWAY CONTRACTOR TO OBTAIN A DRIVE PERMIT FOR THIS SITE. CONTRACTOR TO CONTACT CITY OF MASSILLON ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS.

15. SANITARY SEWER PERMIT IS REQUIRED FROM THE CITY OF MASSILLON FOR THIS SITE.

16. 8" WATER SERVICE LINE UNDER MILLENIUM BLVD. WILL BE OPEN CUT. A CITY OF MASSILLON STREET OPENING PERMIT IS REQUIRED. CONTACT THE CITY ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS. SEE OPEN CUT DETAIL ON SHEET NO. 7.

17. TOPOGRAPHIC INFORMATION BASED ON SURVEY BY HAMMONTREE & ASSOCIATES, LTD., DATED 4/18/07.



PIPE CHART

PIPE	SIZE	*TYPE	LENGTH	GRADE	℄ IN	℄ OUT
P_1	12"	B	78'	0.50%	1011.00	1010.61
P_2	15"	B	188'	0.80%	1008.75	1007.25
P_3	12"	C	36'	1.00%	1004.75	1004.39
P_4	12"	B	299'	1.00%	1012.00	1009.00
P_5	12"	B	265'	1.13%	1012.00	1009.00

* USE R.C.P. (706.02), CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (707.33) OR APPROVED EQUAL.

NOTE 1:
CONTRACTOR TO REMOVE EXISTING CASTING AND ADJUSTING BRICK AND REPLACE WITH CONCRETE GRADE RINGS OR POURED CONCRETE ADJUSTING RINGS PER DIRECTION OF THE CITY ENGINEER. CASTING TO BE EAST JORDAN 7030 WITH TYPE T-3 BACK OR APPROVED EQUAL.

CONTRACTOR

ROSEMAN BUILDING CORPORATION
1211 3rd ST. N.W.
P.O. BOX 295
MASSILLON, OHIO 44648
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FAX: (330)499-0148
TOLL FREE: 1-800-362-9817
www.hammontree-engineers.com

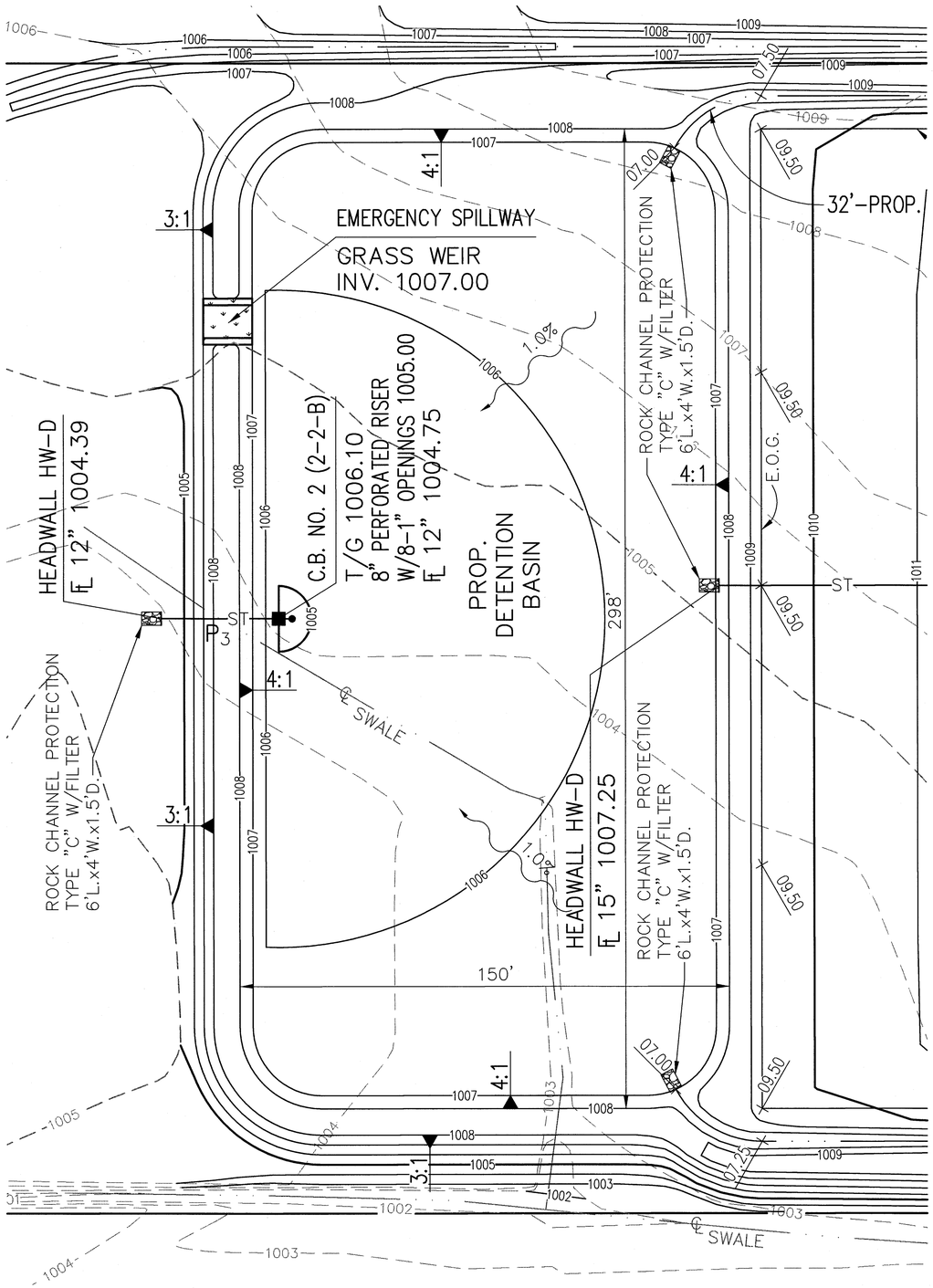
REV. BY: ___ DATE: ___	DESC.:		
REV. BY: DTM DATE: 6/4/07	DESC.: ADDED HEADWALLS & RIPRAP, ADDED FL FOR CB 2, REV.		
REV. BY: DTM DATE: 5/18/07	DESC.: GRATE TYPE CB 4, REV. FF LABEL & REV. NOTE 12		
REV. BY: ___ DATE: ___	DESC.: MOVED SAN. SEWER CONNECTION TO N.E. CORNER OF PROP.		
REV. BY: ___ DATE: ___	DESC.: OFFICE & REMOVED STARK COUNTY FROM UTILITY NOTE 15		
REV. BY: ___ DATE: ___	DESC.: PER CONTRACTOR'S REQUEST.		
R:\STARK\CITY\MASSILLON\125\ROSEMLLD\SHEET			

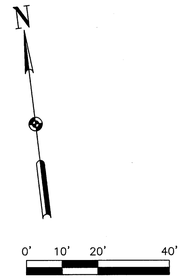
DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: DTM RWWD. BY: BHB
F.B. ___ PAGE: ___
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT: UTILITY

SCALES:
HORIZ: 1"=40'

SITE UTILITY PLAN
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

ROSEMAN-MILLENIUM





SUMMARY OF DETENTION BASIN DRAINAGE CALCULATIONS

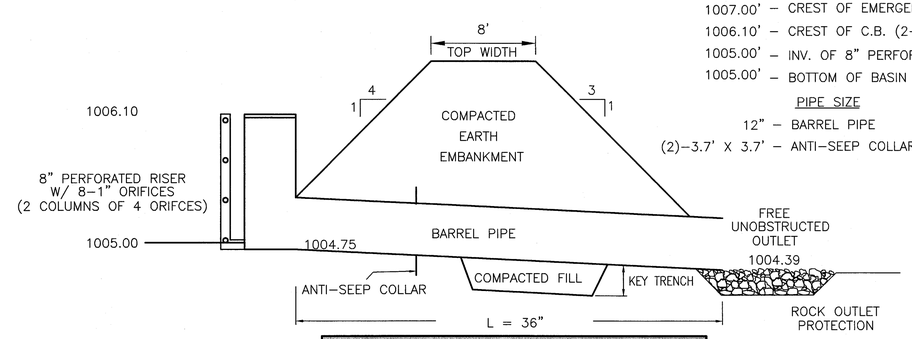
STORM DESIGN FREQUENCY (YRS)	WATER QUALITY	2	5	10	10 DURING CONSTR.	25	50	100
PRE-DEVELOPED PEAK FLOW (CFS)	N/A	2.886	3.610	4.144	N/A	5.061	5.368	6.141
POST- DEVELOPED UNCONTROLLED PEAK FLOW (CFS)	N/A	4.510	6.581	6.483	7.659	9.264	8.313	9.471
POST -DEVELOPED PEAK FLOW FROM BASIN (CFS)	0.112	1.088	1.819	2.867	4.058	3.584	3.876	4.091
DESIGN PEAK WATER ELEVATION (FT)	1006.10	1006.22	1006.28	1006.36	1006.56	1006.44	1006.50	1006.58
DESIGN STORAGE VOLUME REQUIRED (CY)	9,881	12,307	13,978	16,092	21,745	18,144	19,936	22,075
AS-CONSTRUCTED PEAK FLOW FROM BASIN (CFS)								
AS-CONSTRUCTED PEAK WATER ELEVATION (FT)								
AS-CONSTRUCTED STORAGE VOLUME PROVIDED (CY)								

ELEVATIONS

1008.00' – TOP OF EMBANKMENT
1007.00' – CREST OF EMERGENCY SPILLWAY
1006.10' – CREST OF C.B. (2-2B)
1005.00' – INV. OF 8" PERFORATED RISER
1005.00' – BOTTOM OF BASIN

PIPE SIZE

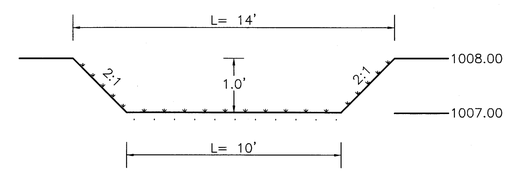
12" – BARREL PIPE
(2)-3.7' X 3.7' – ANTI-SEEP COLLAR



DETENTION BASIN OUTLET DETAIL

N.T.S.

NOTE:
DESIGN AND CONSTRUCTION OF WATER QUALITY BASIN SHALL BE IN ACCORDANCE WITH REQUIREMENTS GIVEN IN THE OHIO NATURAL RESOURCES CONSERVATION SERVICE'S STANDARD 378



EMERGENCY SPILLWAY DETAIL

N.T.S.

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REV. BY: ___	DATE: ___	DESC.: ___	
REV. BY: ___	DATE: ___	DESC.: ___	
REV. BY: ___	DATE: ___	DESC.: ___	
REV. BY: DTM	DATE: 8/4/07	DESC.: REV. GRADING FOR SPILLWAY & ADDED BAR SCALE	

R:\STARK CITY\MASSILLON\MSE.DWG

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: SHM RVWD. BY: BHB
F.B.___ PAGE:___
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT TAB: BASIN

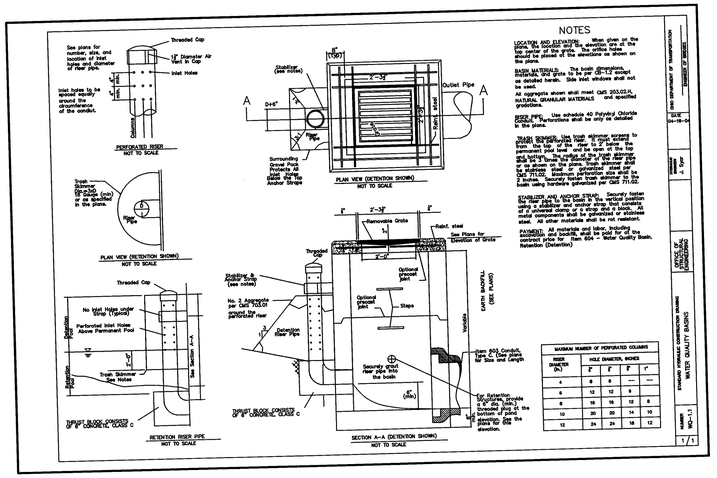
SCALES:
HORIZ: 1"=20'
CONTOUR INT.=1'

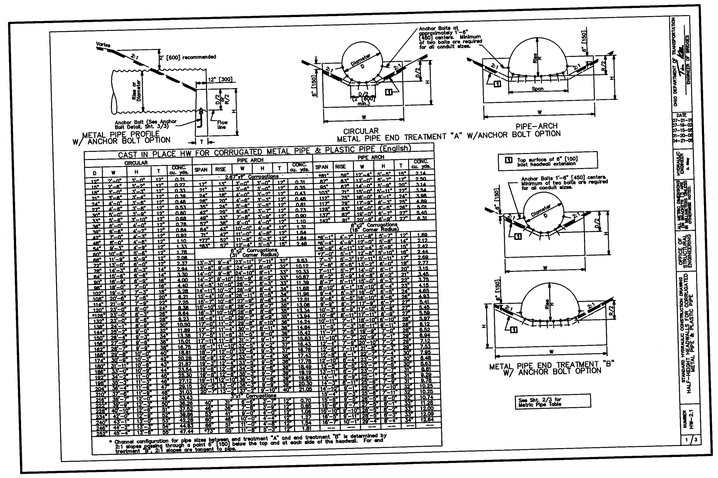
DETENTION BASIN PLAN

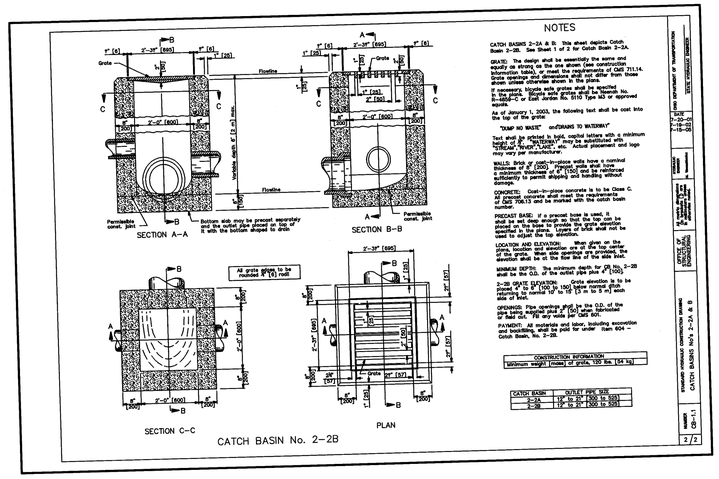
KRAFT POWER CORPORATION

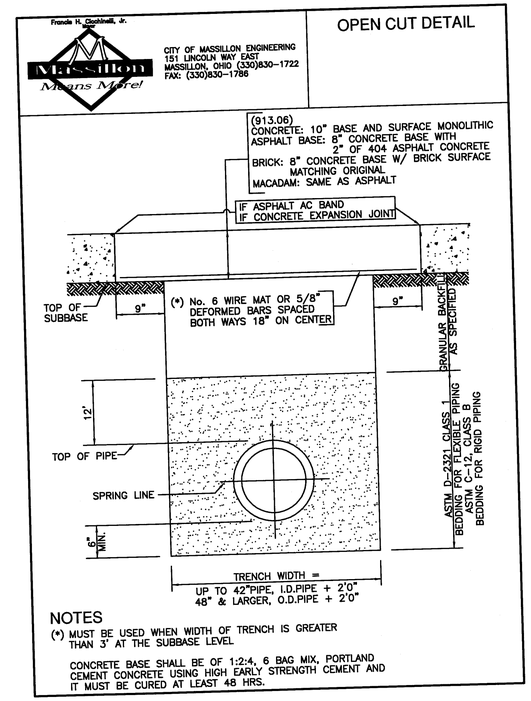
FOR: ROSEMAN CONSTRUCTION

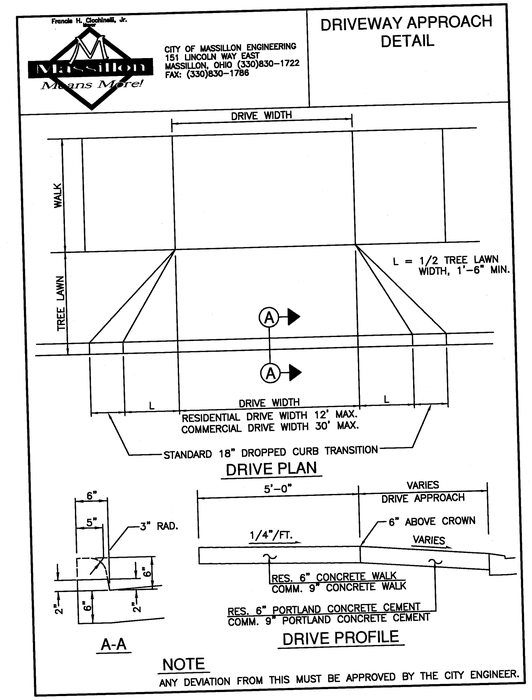
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

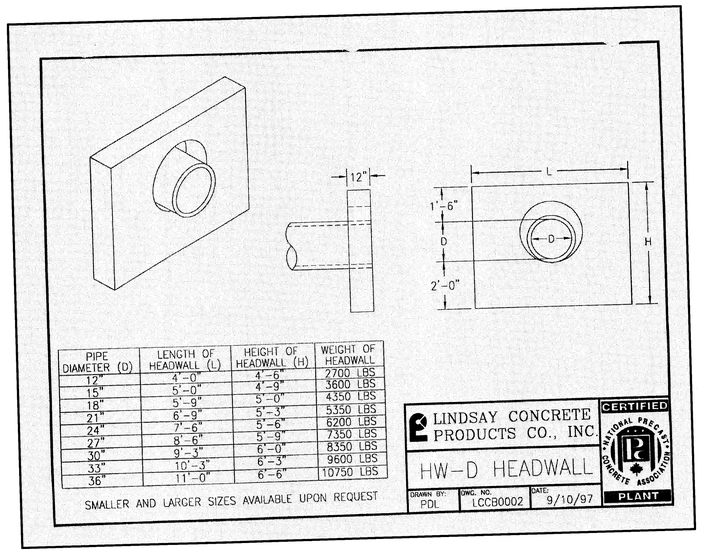




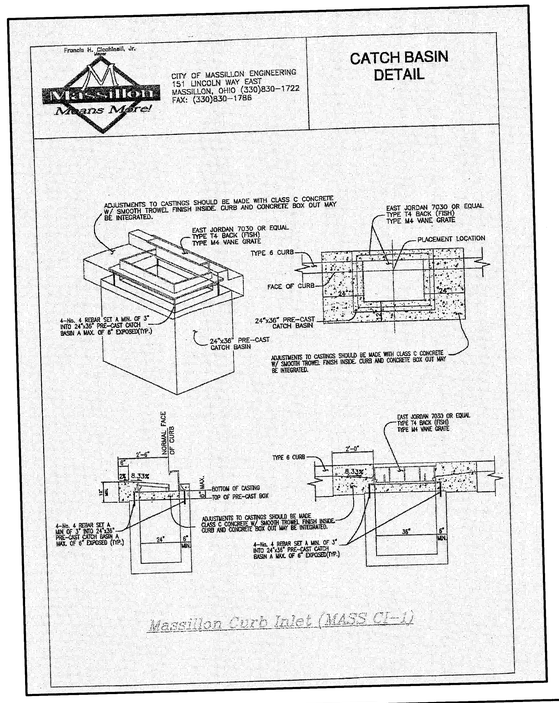








PIPE DIAMETER (D)	LENGTH OF HEADWALL (L)	HEIGHT OF HEADWALL (H)	WEIGHT OF HEADWALL
12"	4'-0"	4'-6"	2700 LBS
15"	5'-0"	4'-9"	3600 LBS
18"	5'-9"	5'-0"	4350 LBS
21"	6'-9"	5'-3"	5350 LBS
24"	7'-6"	5'-6"	6200 LBS
27"	8'-6"	5'-9"	7350 LBS
30"	9'-3"	6'-0"	8350 LBS
33"	10'-3"	6'-3"	9600 LBS
36"	11'-0"	6'-6"	10750 LBS



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REV. BY: ____	DATE: ____	DESC.: ____
REV. BY: ____	DATE: ____	DESC.: ____
REV. BY: DTM	DATE: 6/4/07	DESC.: ADDED MASS. CB DETAILS & LINDSAY HEADWALL HW-D DETAIL

R:\STARK CITY\MASSILLON\125\ROSEMAN\DWGS\DETAILS.DWG

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: SHM RVWD. BY: BHB
F.B. ____ PAGE: ____
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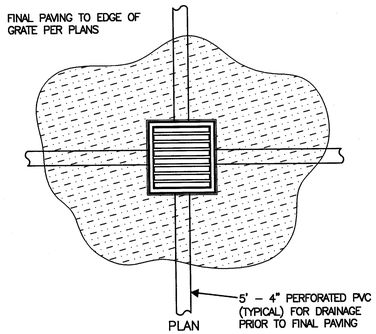
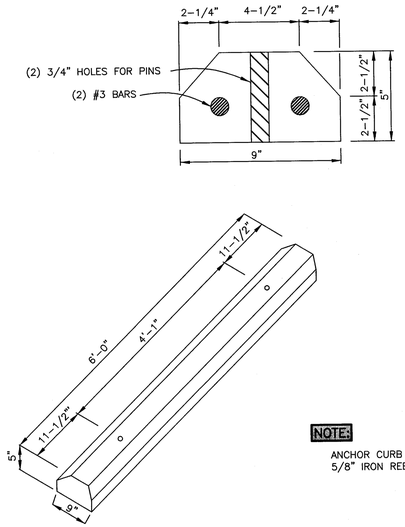
SCALES: N.T.S.

SITE DETAILS
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO



CATCH BASIN DRAINAGE PIPING

N.T.S.

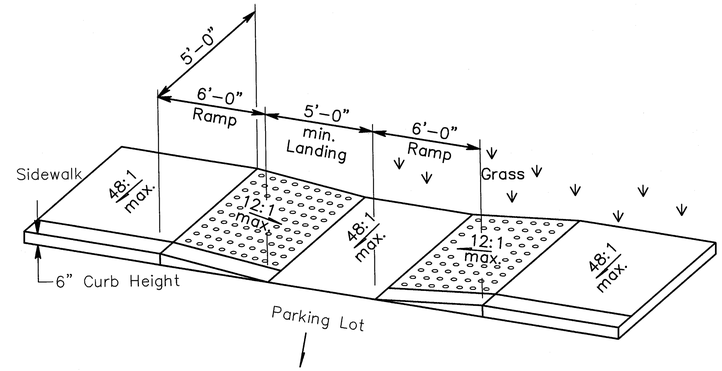


NOTE:

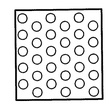
ANCHOR CURB WITH (2) 1'–6" 5/8" IRON REBAR

TYPICAL PRECAST PARKING CURB STOP DETAIL

N.T.S.



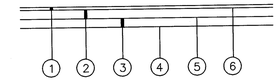
PARALLEL CURB RAMP DETAIL



ADAAG STANDARDIZES DETECTABLE WARNINGS AS RAISED TRUNCATED DOMES WITH A NOMINAL 0.9" DIA., 0.2" HEIGHT AND NOMINAL 2.35" ON CENTER WHICH MUST CONTRAST VISUALLY WITH ADJOINING SURFACES. VERIFY REQUIREMENTS PRIOR TO USE.

DETECTABLE WARNING DEVICE DETAIL

N.T.S.



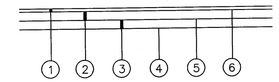
1) ITEM 448 — 1" ASPHALT CONCRETE
2) ITEM 301 — 3" ASPHALT CONCRETE BASE
3) ITEM 304 — 6" AGGREGATE BASE (2–3" LIFTS)
4) ITEM 204 — COMPACTED SUBGRADE
5) ITEM 408 — PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
6) ITEM 407 — TACK COAT TO BE APPLIED AT THE RATE OF 0.1 GAL./SQ. YD.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 2005.

IF GEOTECHNICAL REPORT RECOMMENDS A DIFFERENT SECTION THEN THE GEOTECHNICAL CONSULTANTS RECOMMENDATIONS SHALL OVERRIDE THIS DETAIL.

LIGHT DUTY PASSENGER VEHICLE ASPHALT PAVEMENT SECTION DETAIL

NTS



1) ITEM 448 — 1" ASPHALT CONCRETE
2) ITEM 301 — 4" BITUMINOUS AGGREGATE BASE
3) ITEM 304 — 6" AGGREGATE BASE (2–3" LIFTS)
4) ITEM 204 — COMPACTED SUBGRADE
5) ITEM 408 — PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
6) ITEM 407 — TACK COAT TO BE APPLIED AT THE RATE OF 0.1 GAL./SQ. YD.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 2005.

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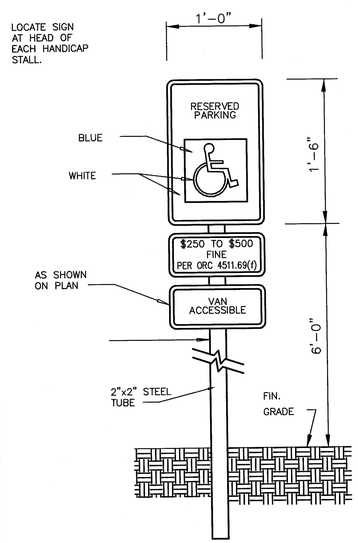
HEAVY DUTY TRUCK ASPHALT PAVEMENT SECTION DETAIL

NTS

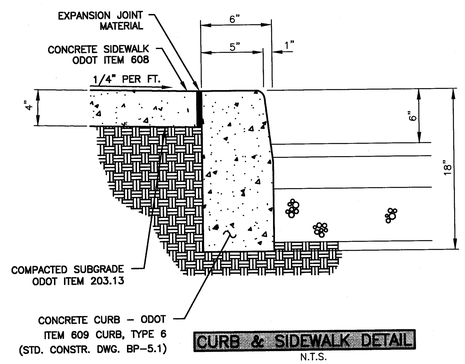


HANDICAP PARKING SIGN

N.T.S.

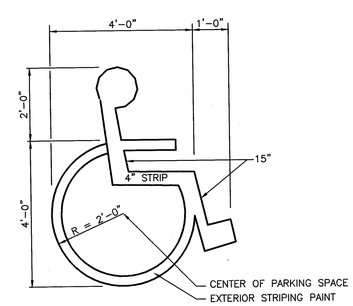
NOTES:

1. SIGNS ARE TO CONFORM WITH THE SPECIFICATIONS FROM THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES.
2. SIGNS WILL BE MOUNTED ON GALVANIZED POLES OR ON WALL (WHERE APPLICABLE).
3. SIGNS SHALL COMPLY TO ALL ADA CODES.



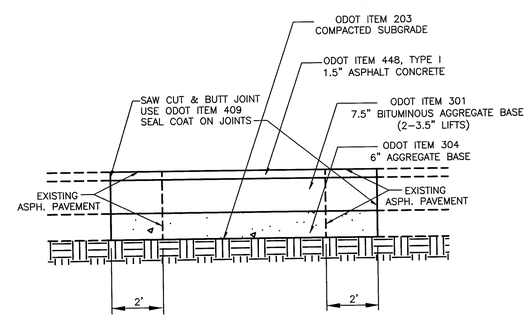
CURB & SIDEWALK DETAIL

N.T.S.



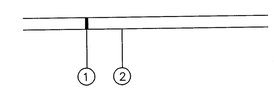
HANDICAPPED PARKING LOGO DETAIL

N.T.S.



FULL DEPTH ASPHALT PAVEMENT REPLACEMENT

NO SCALE



1) ITEM 452 — 9" NON–REINFORCED CONCRETE (FOR CONCRETE APRONS)
1) ITEM 452 — 8" NON–REINFORCED CONCRETE
2) ITEM 204 — COMPACTED SUBGRADE

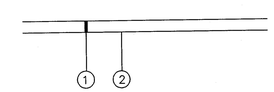
CONTRACTOR TO SUBMIT SHOP DRAWINGS OF PAVEMENT JOINT LOCATIONS.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 2005.

IF GEOTECHNICAL REPORT RECOMMENDS A DIFFERENT SECTION THEN THE GEOTECHNICAL CONSULTANTS RECOMMENDATIONS SHALL OVERRIDE THIS DETAIL.

CONCRETE PAVEMENT SECTION DETAIL

NTS



1) ITEM 304 — 8" AGGREGATE BASE (2–4" LIFTS)
2) ITEM 204 — COMPACTED SUBGRADE

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 2005.

IF GEOTECHNICAL REPORT RECOMMENDS A DIFFERENT SECTION THEN THE GEOTECHNICAL CONSULTANTS RECOMMENDATIONS SHALL OVERRIDE THIS DETAIL.

GRAVEL PAVEMENT SECTION DETAIL

NTS

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REV. BY: ___	DATE: ___	DESC.: ___			
REV. BY: ___	DATE: ___	DESC.: ___			
REV. BY: DTM	DATE: 6/1/07	DESC.: ADDED FULL DEPTH ASPHALT PAVEMENT REPLACEMENT DETAIL			

R:\STARK\CITY\MASSILLON\126\ROSEMILLE\SHEET\ LAYOUT: TAB: SITE DETAILS 3

DESN. BY: DTM CHK'D. BY: BHB
DRWN. BY: SHM RVW'D. BY: BHB
F.B.____ PAGE:____
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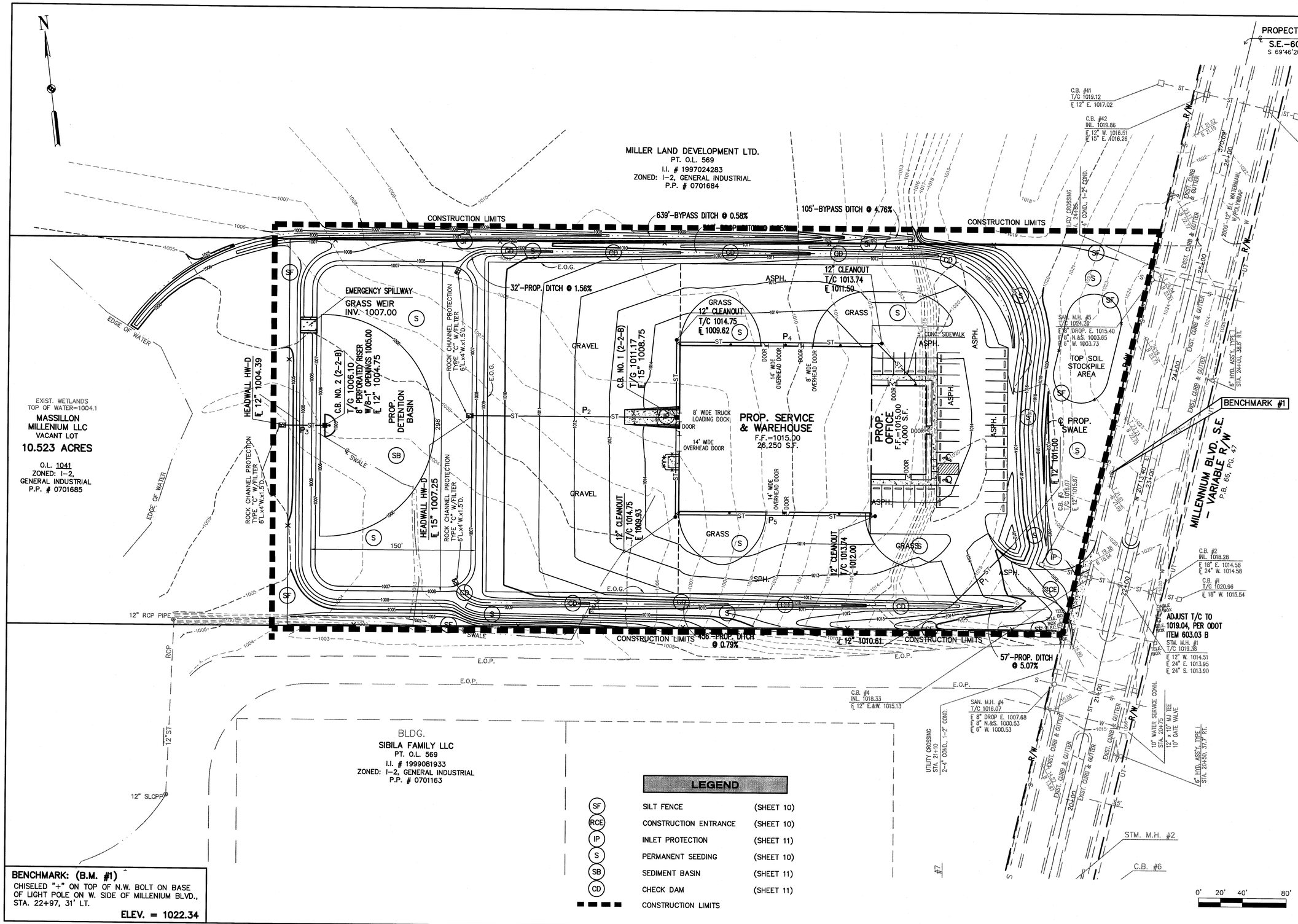
SCALES:
N.T.S.

SITE DETAILS
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO



BENCHMARK: (B.M. #1)
CHISELED "+" ON TOP OF N.W. BOLT ON BASE OF LIGHT POLE ON W. SIDE OF MILLENIUM BLVD., STA. 22+97, 31' LT.
ELEV. = 1022.34

LEGEND

SF	SILT FENCE	(SHEET 10)
RCE	CONSTRUCTION ENTRANCE	(SHEET 10)
IP	INLET PROTECTION	(SHEET 11)
S	PERMANENT SEEDING	(SHEET 10)
SB	SEDIMENT BASIN	(SHEET 11)
CD	CHECK DAM	(SHEET 11)
	CONSTRUCTION LIMITS	

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DESC.:	DESC.:	DESC.:	DESC.:
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REV. BY: ___ DATE: ___	REV. BY: ___ DATE: ___	REV. BY: ___ DATE: ___	REV. BY: DTM DATE: 6/4/07 DESC.: REV. LENGTH OF SILT FENCE ALONG N. & S. PROP. LINES

DESN. BY: DTM CHKD. BY: BHB
DRWN. BY: DTM RVWD. BY: BHB
F.B. ___ PAGE: ___
COPYRIGHT: 2007 DATE: 5/9/07
LAYOUT: EROSION
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SCALES:
HORIZ: 1"=40'
CONTOUR INT.=1'

SOIL EROSION CONTROL PLAN
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

EROSION CONTROL NOTES

1. ALL PROPERTIES ADJACENT TO THE SITE OF SOIL–DISTURBING ACTIVITY SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE, FROM SOIL EROSION AND SEDIMENT RUNOFF AND DRAINAGE, INCLUDING, BUT NOT LIMITED TO PRIVATE PROPERTIES, NATURAL AND ARTIFICIAL WATERWAYS, WETLANDS, STORM SEWERS AND PUBLIC LANDS.

2. CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PRACTICES USED TO SATISFY THIS REQUIREMENT SHALL CONFORM, AS A MINIMUM, TO STATE OF OHIO STANDARDS AS SET FORTH IN THE MOST–CURRENT EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, DEFINED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF SOIL AND WATER CONSERVATION AND NATURAL RESOURCE CONSERVATION SERVICE AND SHALL CONFORM TO THE MOST CURRENT OHIO ENVIRONMENTAL PROTECTION AGENCY, OHIO REVISED CODE CHAPTER 6111 REQUIREMENTS.

3. EROSION AND SEDIMENT CONTROL PLAN APPROVALS ISSUED IN ACCORDANCE WITH THESE RULES DO NOT RELIEVE THE OWNER OF RESPONSIBILITY FOR OBTAINING ALL OTHER NECESSARY PERMITS AND OR APPROVALS FROM FEDERAL STATE, AND/OR COUNTY AGENCIES. IF REQUIREMENTS VARY, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

4. EROSION AND SEDIMENT CONTROL PRACTICES AT THE SITE, AND AS IDENTIFIED IN THE ESC PLAN SHALL COMPLY WITH THE FOLLOWING:

   A. AN APPROVED EROSION AND SEDIMENT CONTROL PLAN OR APPROVAL LETTER FROM THE **LOCAL** SWCD SHALL BE LOCATED ON SITE FOR REVIEW.

   B. LIMITS TO CLEARING AND GRADING SHALL BE SHOWN ON ESC PLANS. LIMITS TO CLEARING AND GRADING SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING, AND/OR FENCING ETC.

   C. INSTALL EROSION AND SEDIMENT PERIMETER CONTROLS AS A FIRST ACTION OF CONSTRUCTION AS SPECIFIED BY CONSTRUCTION SEQUENCE. THIS SHALL INCLUDE AND IS NOT LIMITED TO PROTECTIVE BMP'S FOR STREAM CORRIDORS AND CROSSINGS, WETLANDS, SITE ENTRANCE, SEDIMENT TRAPS & BASINS, BARRIERS, AND DIVERSION DIKES.

   D. CONCENTRATED STORM WATER RUNOFF SHALL PASS THROUGH A SEDIMENT CONTROL DEVICE BEFORE EXITING THE SITE BOUNDARIES. CONCENTRATED RUNOFF FROM BARE SOIL AREAS SHALL BE DIVERTED INTO A SETTLING POND OR SEDIMENT CONTROL STRUCTURE, OR OTHER APPROVED SEDIMENT BARRIER BEFORE LEAVING THE SITE.

   E. EARTHEN STRUCTURES SUCH AS DAMS, BASINS, STREAM MODIFICATIONS AND WATER DIVERSIONS SHALL BE SEEDED AND MULCHED WITH IN SEVEN (7) DAYS OF THE COMPLETION OF INSTALLATION. DAMS SHALL CONFORM TO THE OHIO DAM LAWS (ORC 1521.06).

   F. STABILIZATION OF CRITICAL AREAS WITHIN 50 FEET OF ANY STREAM OR WETLAND SHALL BE TEMPORARILY STABILIZED WITHIN TWO (2) DAYS OF DISTURBANCE IF AREA WILL REMAIN INACTIVE FOR SEVEN (7) DAYS OR LONGER. CONSTRUCTION VEHICLES SHALL AVOID STREAMS AND THE 50 FOOT BUFFER AREAS. IF AN ACTIVE DRAINAGE WAY MUST BE CROSSED BY CONSTRUCTION VEHICLES REPEATEDLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS IN THE RAINWATER & LAND DEVELOPMENT MANUAL. CONSTRUCTION OF BRIDGES, CULVERTS OR SEDIMENT CONTROL STRUCTURES SHALL NOT PLACE SOIL, DEBRIS AND OTHER FINE PARTICULATE MATERIAL INTO OR CLOSE TO THE WATER RESOURCE IN SUCH A MANNER THAT IT MAY SLOUGH, SLIP OR ERODE.

   G. STORM SEWER INLETS SHALL BE PROTECTED SO THAT SEDIMENT–LADEN RUNOFF WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED AND/OR TREATED. SANITARY SEWER MANHOLES SHALL BE PROTECTED SO THAT NO STORM RUNOFF WILL ENTER THE SANITARY SEWER SYSTEM.

   H. RE–VEGETATE SOIL. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN TWENTY–ONE (21) DAYS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITION.

   I. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS. STABILIZATION SHALL BE REQUIRED IF STOCKPILES ARE LOCATED WITHIN CRITICAL AREAS NEAR STREAMS OR WETLANDS, OR IF DETERMINED BY THE **LOCAL** SWCD THAT SEDIMENT FROM STOCKPILES WILL LEAVE THE SITE.

   J. UNSTABLE SOILS PRONE TO SLIPPING OR SLOUGHING SHALL NOT BE CLEARED, GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS PLANNED BY A QUALIFIED PROFESSIONAL ENGINEER AND INSTALLED IN ACCORDANCE WITH THE ESC PLAN. CUT AND FILL SLOPES SHOULD BE DESIGNED TO MINIMIZE EROSION PROBLEMS.
   ADEQUATE SLOPE DESIGN INCLUDES USE OF ROUGH SOIL SURFACE ALONG THE FACE OF THE SLOPE; WATER DIVERSION ALONG THE TOP OF THE SLOPE AWAY FROM THE FACE; TERRACES TO REDUCE SLOPE LENGTH; DELIVERY OF CONCENTRATED STORM WATER FLOWS TO THE BASE OF THE SLOPE VIA ADEQUATE CHANNEL OR PIPE; AND DRAINAGE FOR WATER SEEPS IN THE SLOPE THAT ENDANGER SLOPE STABILITY.

   K. SOIL SHALL BE REMOVED FROM PAVED SURFACES AND/OR PUBLIC ROADS AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF–SITE SEDIMENTATION IN ORDER TO ENSURE SAFETY AND ABATE OFF–SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF–SITE TO A STABLE LOCATION.

   L. STABILIZE DISTURBED OR MODIFIED DRAINAGE WAYS. REDUCE EROSION EFFECTS OF STORM WATER BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES, OR WATER DIVERSIONS.

   M. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT. A WRITTEN LOG OF THESE INSPECTIONS AND IMPROVEMENTS TO CONTROLS SHALL BE KEPT ON SITE. THE INSPECTIONS SHALL INCLUDE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE CORRECTIVE ACTIONS WERE TAKEN.

   N. TRENCHES FOR UNDERGROUND UTILITY LINES AND PIPES SHALL BE TEMPORARILY STABILIZED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN INACTIVE FOR THIRTY (30) DAYS. TRENCH DEWATERING DEVICES SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL–LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING, OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED, THESE PROTECTIVE MEASURES SHALL BE REINSTALLED.

   O. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 21 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS.

   P. SOLID, SANITARY AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH TOXIC OR HAZARDOUS WASTES. STORAGE TANKS SHOULD BE LOCATED IN DIKED AREAS AWAY FROM ANY DRAINAGE CHANNELS. THE DIKED AREA SHOULD HOLD A VOLUME 110% OF THE LARGEST TANK.

   Q. OFF–SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN. OFFSITE SEDIMENT TRACKING SHALL BE CONTROLLED BY REGULARLY SCHEDULED SWEEPING OF OFFSITE ACCESS ROADS AND MAINTENANCE OF ROCK CONSTRUCTION ENTRANCE.

   R. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (1996).

   S. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

   T. WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.

   U. CONCRETE CEMENT IS TO BE TAKEN BACK TO PLANT FOR WASHOUT AND RECYCLING.

5. CONTRACTOR'S POTENTIAL CONSTRUCTION SEQUENCE:

   A. CONTRACTOR TO SETUP A PRE–CONSTRUCTION MEETING WITH **LOCAL** SWCD TO REVIEW THE PLAN AND CONSTRUCTION SEQUENCING BEFORE EARTHWORK IS PERMITTED.

   B. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES AS DETAILED AND MARKED ON THE PLAN.

   C. COMPLETE INITIAL CLEARING AND GRUBBING TO GAIN ACCESS FOR PERIMETER CONTROLS. INSTALL SILT FENCE AND PERIMETER CONTROLS AS SHOWN ON PLANS WITHIN SEVEN (7) DAYS OF CLEARING AND GRUBBING.

   D. COMPLETE CLEARING AND GRUBBING FOR BASINS FOLLOWED BY INSTALLATION OF SEDIMENT/DETENTION/WATER QUALITY BASINS AND CONSTRUCTION OF OUTLET STRUCTURES.

   E. CONTINUE MASS GRADING AND UTILITY INSTALLATION.

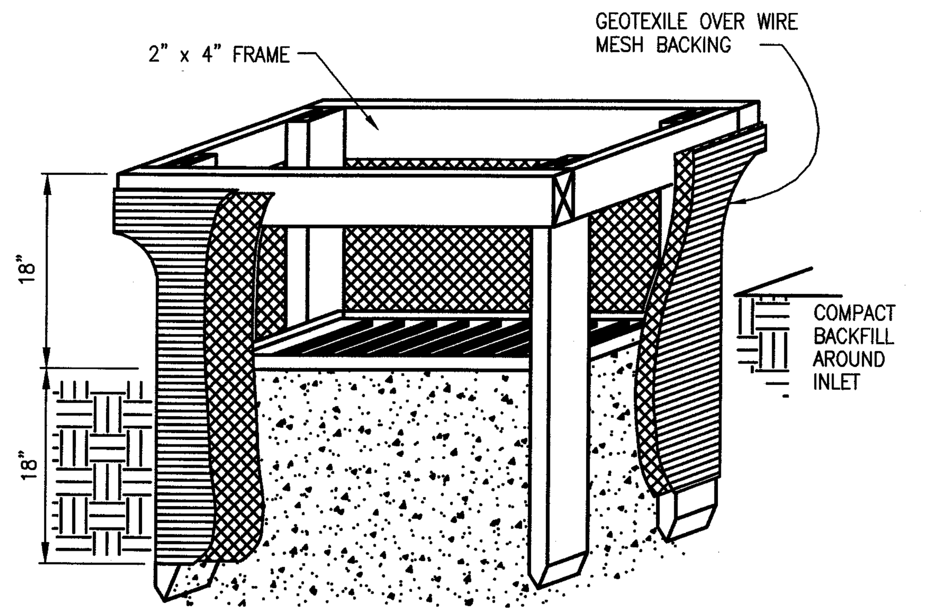
   F. CONTRACTOR TO PROVIDE REGULAR MAINTENANCE INSPECTION AND REPAIR OF EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH EROSION CONTROL NOTE 4.M.

   G. CONTRACTOR TO CONDUCT A PRE–WINTER STABILIZATION MEETING WITH LOCAL SOIL AND WATER CONSERVATION DISTRICT IF PROJECT IS TO BE DORMANT THROUGH THE WINTER.

   H. PERMANENT SOIL STABILIZATION AND SEEDING IS REQUIRED WITHIN 7 DAYS OF FINISHING FINAL GRADES.

   I. REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IS PERMITTED WHEN A MINIMUM OF 80% OF UPSTREAM AREA IS STABILIZED.

   J. FINAL STABILIZATION MEETING WITH PROVISIONS FOR LONG–TERM MAINTENANCE OF STORM WATER FACILITIES INCLUDING MECHANISMS FOR NOTIFICATION OF FUTURE RESPONSIBLE PARTIES AND/OR PROPERTY OWNERS.



1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 IN.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 IN BY 4 IN. CONSTRUCTION GRADE LUMBER. THE 2 IN. BY 4 IN. POSTS SHALL BE DRIVEN 18 IN. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 IN. BY 4 IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20 – 40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

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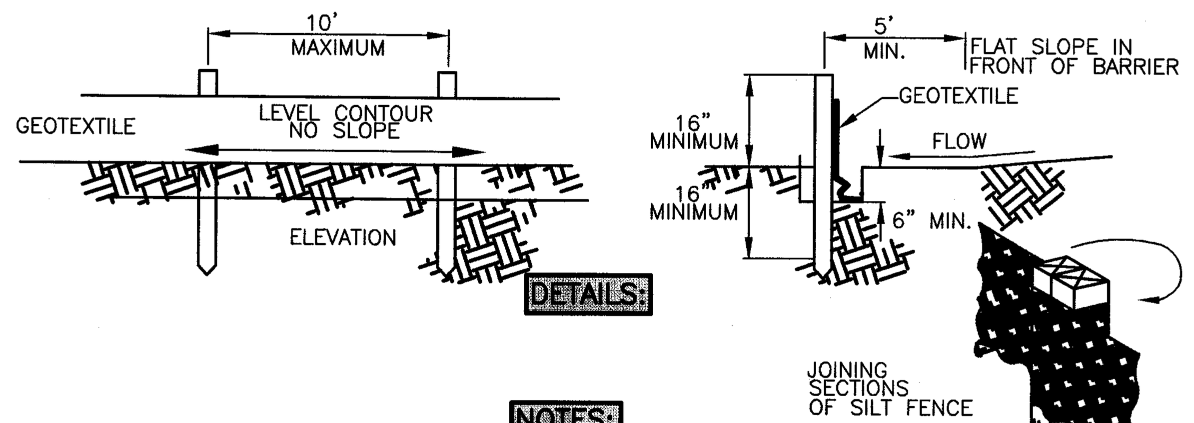

DETAILS:

NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 ft. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE FENCE.
6. SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE–– SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
    2) ACCUMULATED SEDIMENT SHALL BE REMOVED,
    3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POSTS – THE LENGTH SHALL BE A MINIMUM OF 32" LONG. WOOD POST WILL BE 2" X 2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 P.S.I. MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT.^{2} MAXIMUM	
EQUIVALENT OPENING SIZE	40–80	US STD. SIEVE CW–02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM–G–26

SILT FENCE

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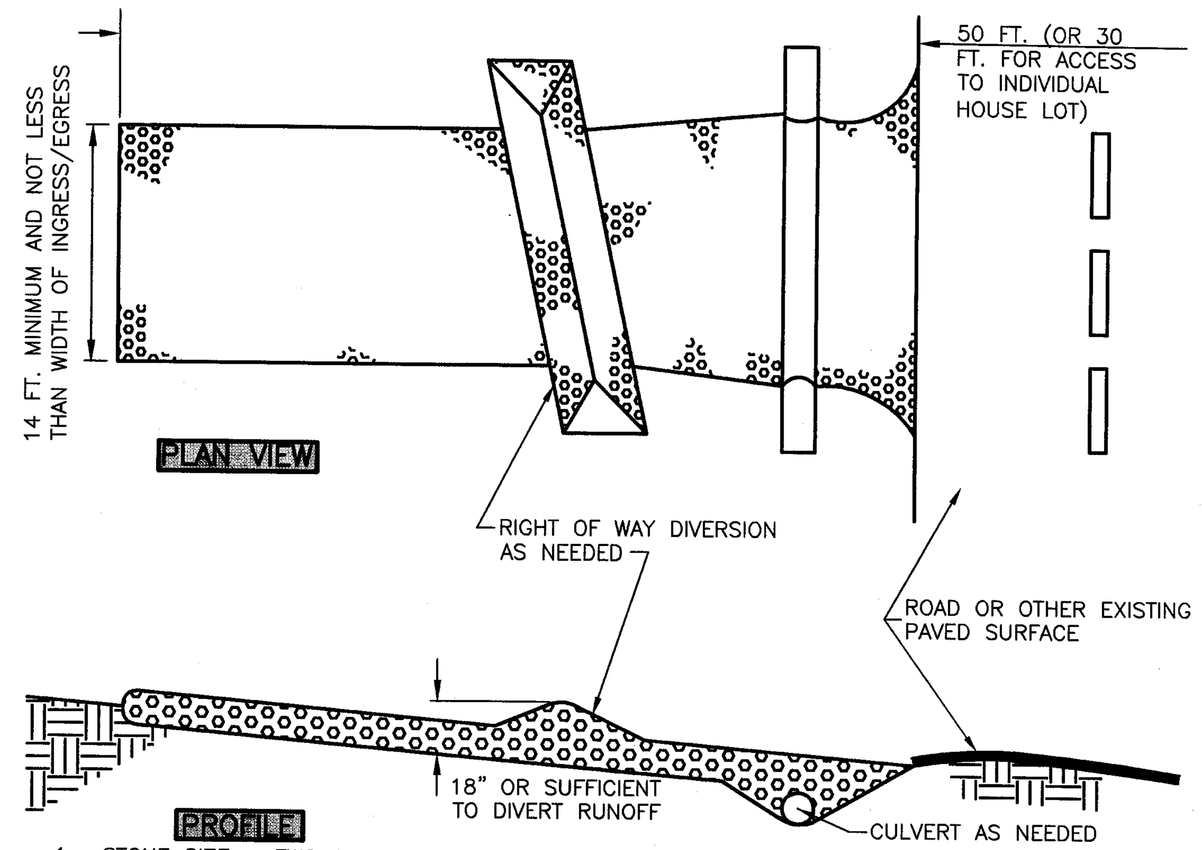

1. STONE SIZE – TWO–INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT. (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30–FT. MINIMUM LENGTH APPLIES.
3. THICKNESS – THE STONE LAYER SHALL BE AT LEAST 12 IN. THICK FOR LIGHT DUTY TRAFFIC AND 18 INCH MINIMUM FOR HEAVY DUTY USE.
4. WIDTH – THE ENTRANCE SHALL BE AT LEAST 14 FT. WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. BEDDING – A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.
6. CULVERT – A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR – A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE – TOP DRESSING OF ADDITIONAL STONE WALL SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF–SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONSTRUCTION ENTRANCE

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(RCE)

PERMANENT SEEDING			
SEED MIX	SEEDING RATE LB./AC.	SEEDING RATE LB./1,000 FT.^{2}	NOTES:
GENERAL USE			
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20–40 10–20 10–20	1/2–1 1/4–1/2 1/4–1/2	
TALL FESCUE	40	1	
DWARF FESCUE	40	1	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40	1	
CROWN VETCH TALL FESCUE	10 20	1/4 1/2	DO NOT SEED LATER THAN AUGUST.
FLAT PEA TALL FESCUE	20 20	1/2 1/2	DO NOT SEED LATER THAN AUGUST.
ROAD DITCHES AND SWALES			
TALL FESCUE	40	1	
DWARF FESCUE KENTUCKY BLUEGRASS	90 5	2 1/4	
LAWNS			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	60 60	1 1/2 1 1/2	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	60 60	1 1/2 1 1/2	FOR SHADED AREAS.
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.			

PERMANENT SEEDING

(S)

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LAYOUT: TAB: EROSION DETAILS

SCALES:
N.T.S.

SOIL EROSION CONTROL NOTES & DETAILS
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

SITE INFORMATION

SITE DESCRIPTION — EXISTING – GRASS, WOODS, WETLAND
PROPOSED – WAREHOUSE

TOTAL AREA OF SITE – 10.52 AC.
AREA OF SITE TO UNDERGO EXCAVATION – 5.33± AC.

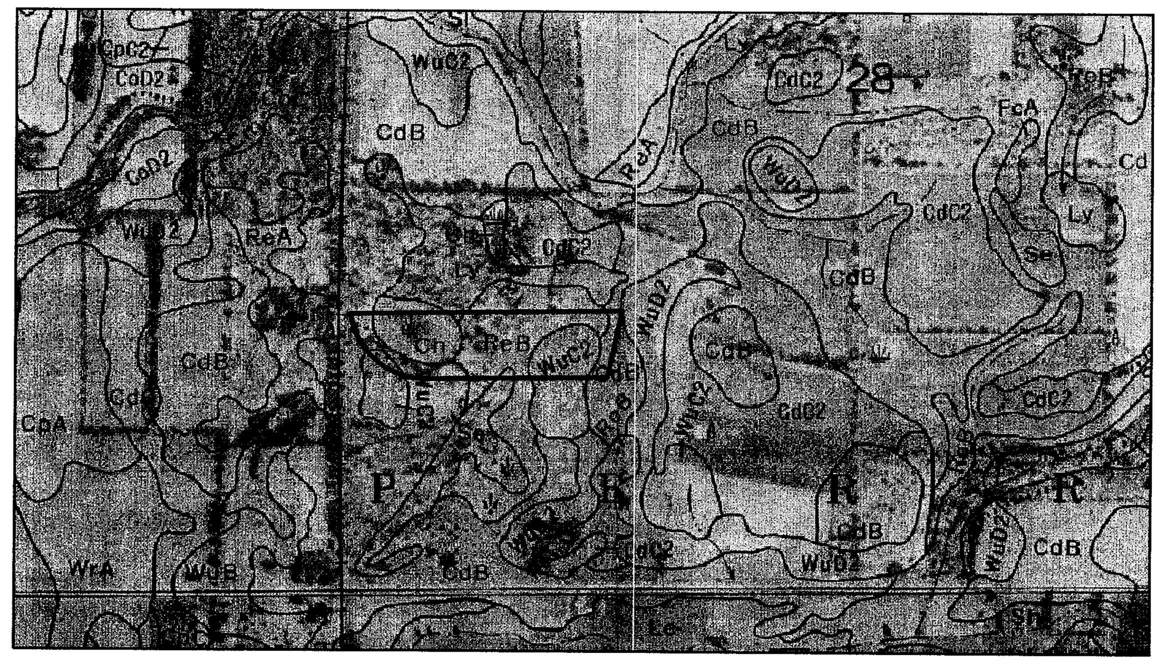
PRE–CONSTRUCTION RUNOFF COEFFICIENT – C= 0.30
POST–CONSTRUCTION RUNOFF COEFFICIENT – C= 0.62

SCHEDULE OF MAJOR CONSTRUCTION
COMMENCEMENT – SUMMER 2007
COMPLETION – SPRING 2008

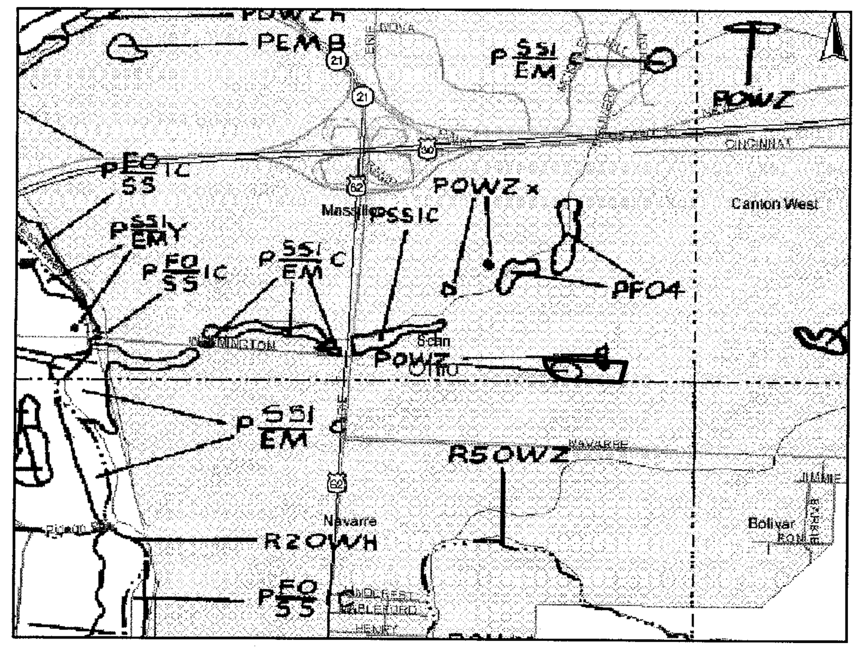
RECEIVING STREAM AND SURFACE WATERS
ONSITE DRAINAGE FLOWS TO EXISTING WETLAND LOCATED ON THE WEST SIDE OF PROPERTY

EXISTING SOILS ON SITE

WuC2	WOOSTER SILT LOAM, 6 TO 12 PERCENT, MODERATELY ERODED
ReB	RAVENNA SILT LOAM, 0 TO 2 PERCENT SLOPES
Ch	CARLISLE MUCK
CdB	CANFIELD SILT LOAM, 2 TO 6 PERCENT SLOPES
Se	SEBRING SILT LOAM, TILL SUBSTRATUM



SOILS MAP



WETLANDS MAP

NOTES:

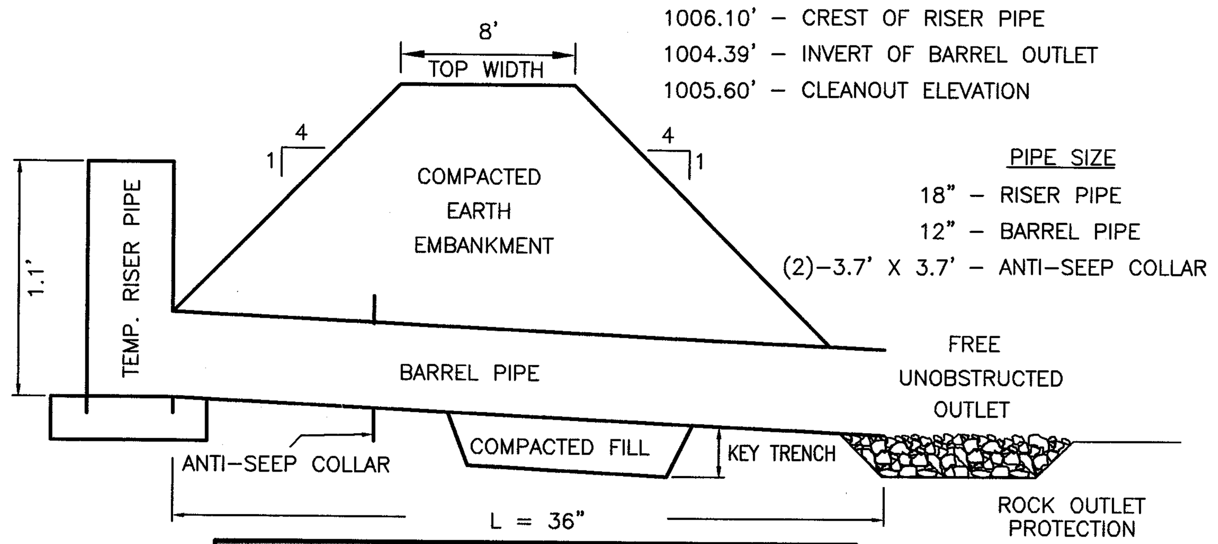
"THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL RAINWATER AND LAND DEVELOPMENT– OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION. SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY THE CITY OF MASSILLON."

ELEVATIONS

1008.00' – TOP OF EMBANKMENT
1007.00' – CREST OF EMERGENCY SPILLWAY
1006.10' – CREST OF RISER PIPE
1004.39' – INVERT OF BARREL OUTLET
1005.60' – CLEANOUT ELEVATION

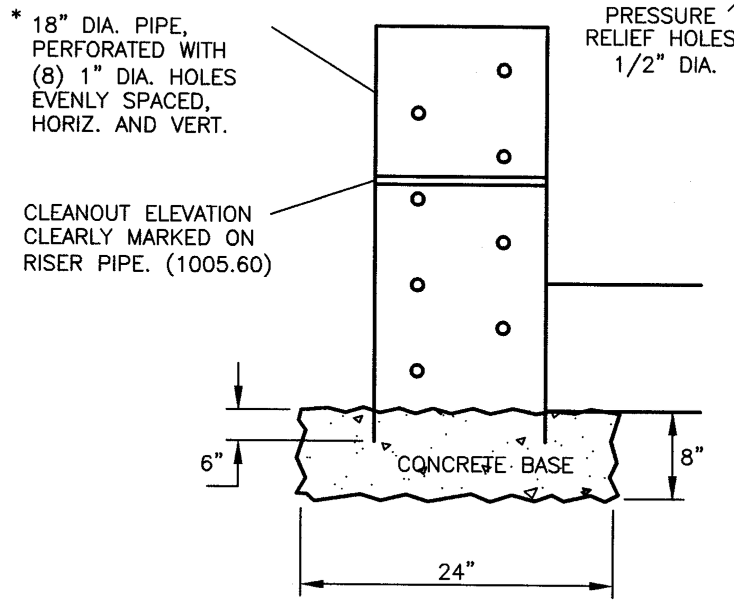
PIPE SIZE

18" – RISER PIPE
12" – BARREL PIPE
(2)–3.7' X 3.7' – ANTI–SEEP COLLAR

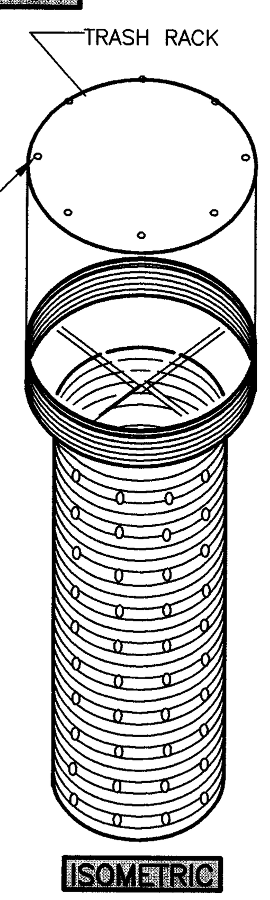


DETENTION BASIN DURING CONSTRUCTION

* PERFORATED RISER PIPE IS A TEMPORARY STRUCTURE AND TO BE USED DURING CONSTRUCTION. THIS RISER PIPE MUST BE REMOVED AFTER 80% UPLAND AREAS HAVE BEEN SEEDED AND STABILIZED.



TEMPORARY RISER PIPE & BASE

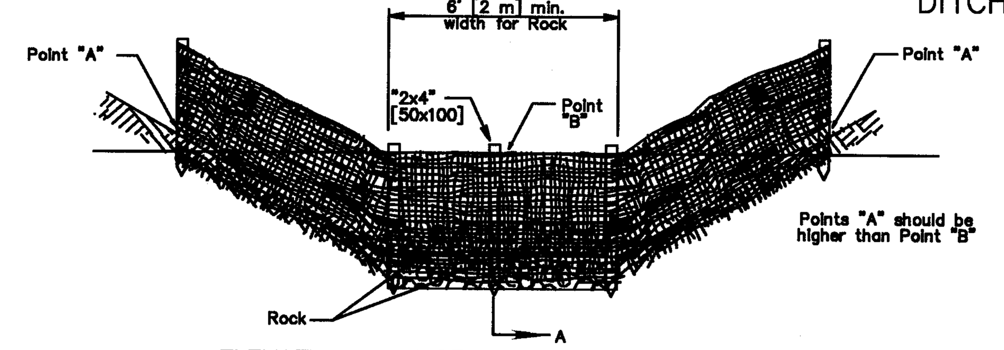


ISOMETRIC

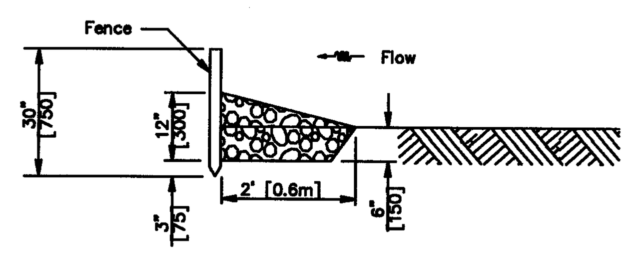
SPECIFICATIONS FOR SEDIMENT BASINS

1. SEDIMENT BASINS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. SITE PREPARATION –– THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEAN OUT. GULLIES AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. THE SURFACE OF THE FOUNDATION AREA WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.
3. CUTOFF TRENCH –– THE CUTOFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE EMBANKMENT. THE MINIMUM DEPTH SHALL BE 2 FT. UNLESS SPECIFIED DEEPER ON THE PLANS OR AS A RESULT OF THE SITE CONDITIONS. THE MINIMUM BOTTOM WIDTH SHALL BE 4 FT., BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTING EQUIPMENT. THE TRENCH SHALL BE KEPT FREE OF STANDING WATER DURING BACK FILL OPERATIONS.
4. EMBANKMENT –– THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 INCHES IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 INCH HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER IN A WAY THAT WILL RESULT IN THE REQUIRED COMPACTION. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED.
5. PIPE SPILLWAY –– THE PIPE CONDUIT BARREL SHALL BE PLACED ON A FIRM FOUNDATION TO THE LINES AND GRADES SHOWN ON THE PLANS, CONNECTIONS BETWEEN THE RISER AND BARREL, THE ANTI–SEEP COLLARS AND BARREL AND ALL PIPE JOINTS SHALL BE WATERTIGHT. SELECTED BACK FILL MATERIAL SHALL BE PLACED AROUND THE CONDUIT IN LAYERS AND EACH LAYER SHALL BE COMPACTED TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. ALL COMPACTING WITHIN 2 FT. OF THE PIPE SPILLWAY WILL BE ACCOMPLISHED WITH HAND OPERATED TAMPING EQUIPMENT.
6. RISER PIPE BASE –– THE RISER PIPE SHALL BE SET A MINIMUM OF 6 INCHES IN THE CONCRETE BASE.
7. EMERGENCY SPILLWAY –– THE EMERGENCY SPILLWAY SHALL BE CUT IN UNDISTURBED GROUND. ACCURATE CONSTRUCTION OF THE SPILLWAY ELEVATION AND WIDTH IS CRITICAL AND SHALL BE WITHIN A TOLERANCE OF 0.2 FT.
8. SEED AND MULCH –– THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR THE EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.
9. SEDIMENT CLEANOUT –– SEDIMENT SHALL BE REMOVED AND THE SEDIMENT BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS FILLED TO 40% OF THE POND'S ORIGINAL DEPTH OR AS INDICATED ON THE PLANS. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE.
10. FINAL REMOVAL – SEDIMENT BASINS SHALL BE CONVERTED INTO A PERMANENT DRAINAGE BASIN AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED. ALSO, THE STAND PIPE RISER SHALL BE REMOVED AND A 6" ORIFICE PLATE WILL BE INSTALLED ON THE 18" PIPE AFTER STABILIZATION. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

DITCH CHECKS

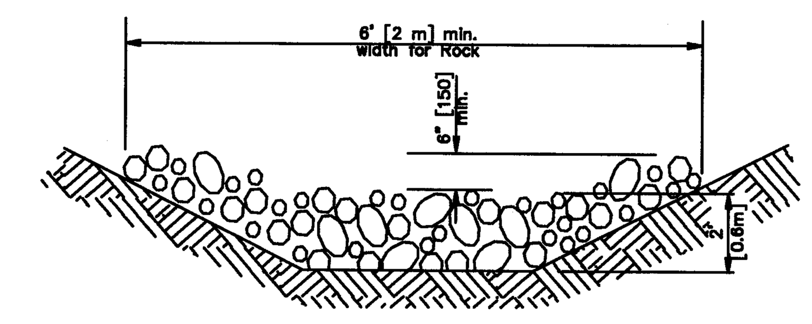


ELEVATION VIEW OF FLAT BOTTOM DITCH



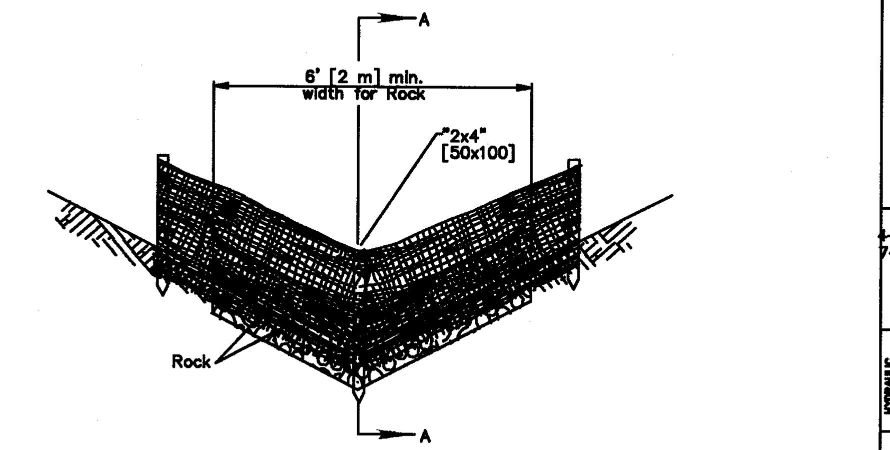
SIDE VIEW OF FLAT BOTTOM AND V DITCH

SECTION A–A



Minimum dimensions: 2' [0.6 m] high x 6' [2 m] wide x 3' [0.9 m] long

ELEVATION VIEW
ROCK CHECK



ELEVATION VIEW OF "V" DITCH

NOTES

FILTER FABRIC DITCH CHECKS:

MATERIALS: Furnish filter fabric ditch checks consisting of the following materials:

1. 30" [0.8 m] wide filter fabric with sound wood supports with maximum on–center spacing of 10' [3.0 m]. Use filter fabric conforming to 712.09 Type C.
2. A vertically driven "2x4" [50x100] stake in the center of the ditch
3. Gravel or limestone material conforming to one of the following gradations No. 1 through No. 4 on Table 703.01–1.

CONSTRUCTION: Trench the filter fabric fence as detailed for PERIMETER FILTER FABRIC FENCE. (see Sheet 2/2) Place a vertical "2x4" [50x100] stake in the center of the ditch with the top level to the top of the fence and at least 6" [150] below the bottom of the ditch. Excavate for and place the gravel or limestone on the upstream side of the ditch check.

PAYMENT: The Department will pay for the accepted quantities at the contract prices in feet [meters] as follows: Item 207 – Filter Fabric Ditch Check.

ROCK CHECKS:

MATERIALS: Furnish material conforming to Item 601 Rock Channel Protection Type C or D without filter.

CONSTRUCTION: Place the rock outside the traffic clear zone in the ditch.

PAYMENT: The Department will pay for the accepted quantities at the contract prices in cubic yards [cubic meters] as follows: Item 207 – Rock Channel Protection Type C or D without filter.

OHIO DEPARTMENT OF TRANSPORTATION — ENGINEER OF BRIDGES
DATE 1–29–02, 7–19–02
HYDRAULIC ENGINEER D. Gruver
All metric dimensions (in brackets [ ]) are in millimeters unless otherwise noted.
OFFICE OF STRUCTURAL ENGINEERING
STANDARD HYDRAULIC CONSTRUCTION DRAWING — CONSTRUCTION EROSION CONTROL
NUMBER DM–4.4
1/2

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DESN. BY: DTM CHKD. BY: BHB
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LAYOUT: TAB: EROSION DETAILS (2)

SCALES:
N.T.S.

SOIL EROSION CONTROL NOTES & DETAILS
KRAFT POWER CORPORATION
FOR: ROSEMAN CONSTRUCTION
ALL OF O.L. 1041 IN THE CITY OF MASSILLON, STARK COUNTY, OHIO

KRAFT – MASSILLON