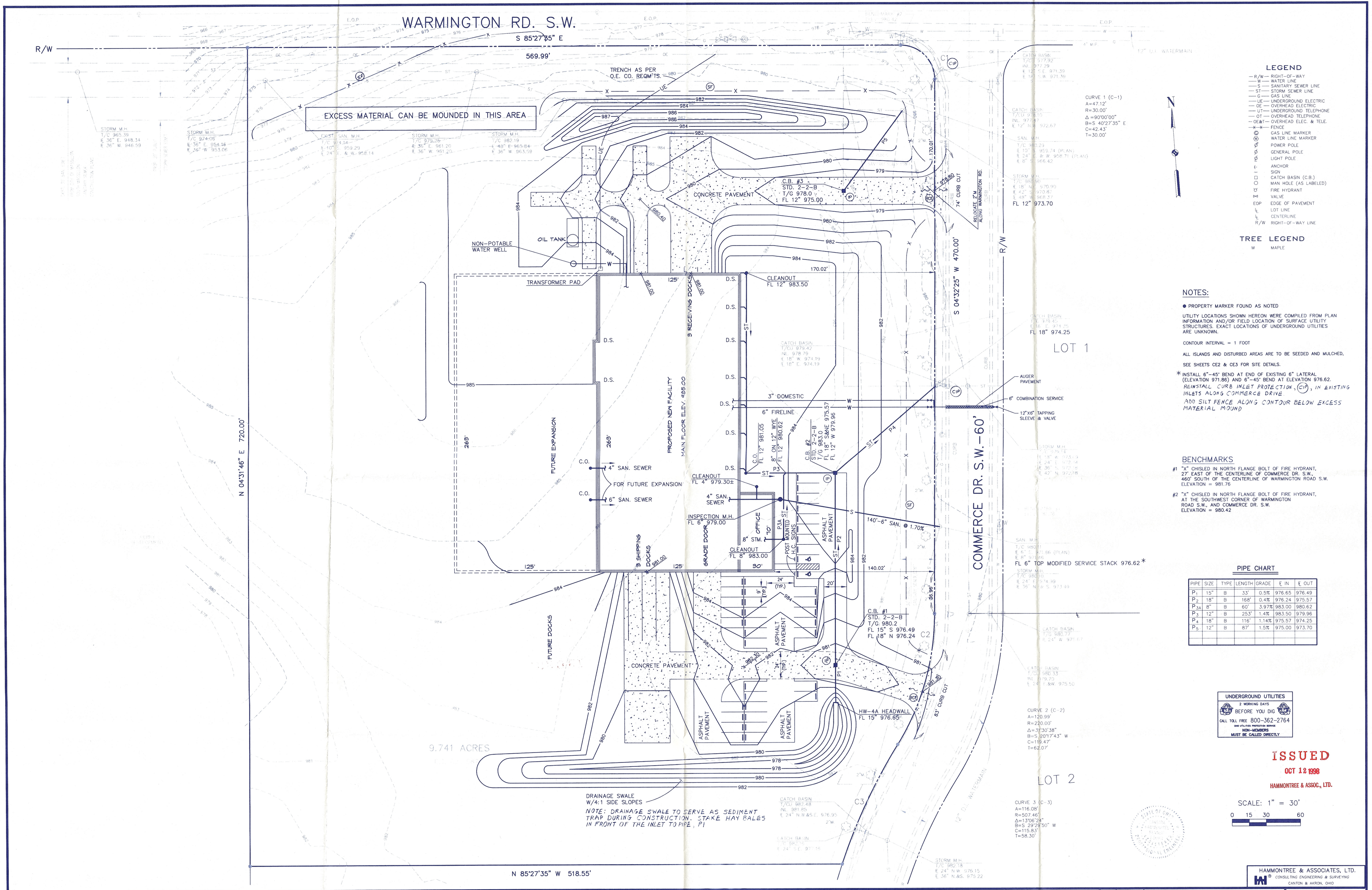


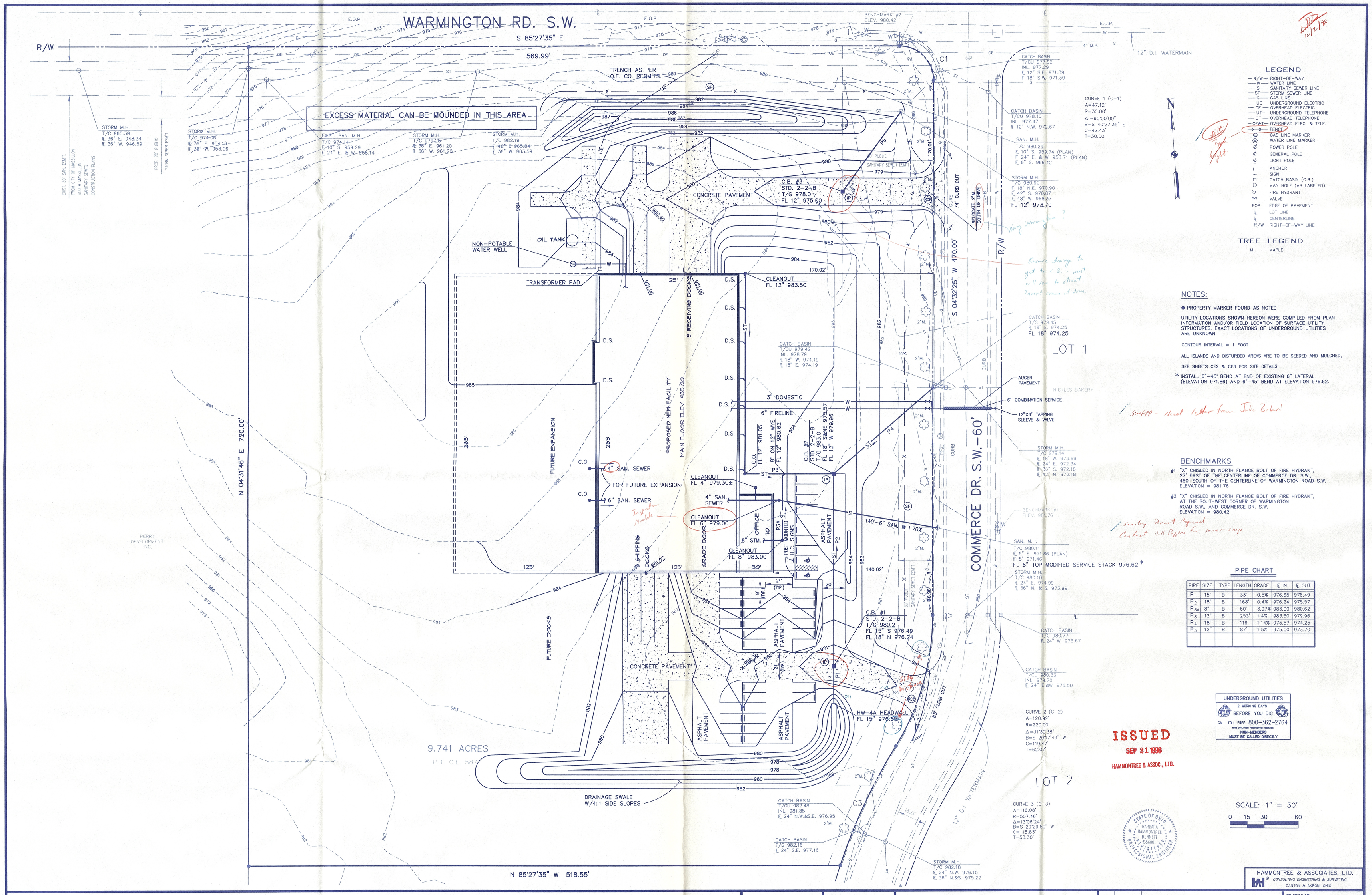
PIPE	SIZE	TYPE	LENGTH	GRADE	℄ IN	℄ OUT
P_1	15"	B	33'	0.5%	976.65	976.49
P_2	18"	B	168'	0.4%	976.24	975.57
P_{3A}	8"	B	60'	3.97%	983.00	980.62
P_3	12"	B	253'	1.4%	983.50	979.96
P_4	18"	B	116'	1.14%	975.57	974.25
P_5	12"	B	87'	1.5%	975.00	973.70

KREKUS ARCHITECT INC.
151 BELL STREET
CHAGRIN FALLS
OHIO 44022
PHONE (440) 247-2744
FAX (440) 247-2715
Email SJKA@aol.com

PROPOSED NEW PRODUCTION FACILITY
FOR
ELASTOCHEM, INC.
COMMERCE DRIVE MASSILLON, OHIO

ISSUE	DATE	DESCRIPTION
	10/2/98	PER CITY COMMENTS
	10/12/98	PER STARK SOIL & WATER COMMENTS

DRAWING NAME: SITE GRADING & UTILITY PLAN
DRAWING NO.: CE1
DATE: 9/17/98
PROJECT NO.
ISSUE



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
- OE&T — OVERHEAD ELEC. & TELE.
- X — X — FENCE
- GAS LINE MARKER
- WATER LINE MARKER
- POWER POLE
- GENERAL POLE
- LIGHT POLE
- ANCHOR
- SIGN
- CATCH BASIN (C.B.)
- MAN HOLE (AS LABELED)
- FIRE HYDRANT
- VALVE
- EOP — EDGE OF PAVEMENT
- LOT LINE
- CENTERLINE
- R/W — RIGHT-OF-WAY LINE

TREE LEGEND

M — MAPLE

NOTES:

● PROPERTY MARKER FOUND AS NOTED

UTILITY LOCATIONS SHOWN HEREON WERE COMPILED FROM PLAN INFORMATION AND/OR FIELD LOCATION OF SURFACE UTILITY STRUCTURES. EXACT LOCATIONS OF UNDERGROUND UTILITIES ARE UNKNOWN.

CONTOUR INTERVAL = 1 FOOT

ALL ISLANDS AND DISTURBED AREAS ARE TO BE SEEDED AND MULCHED.

SEE SHEETS CE2 & CE3 FOR SITE DETAILS.

* INSTALL 6"-45° BEND AT END OF EXISTING 6" LATERAL (ELEVATION 971.86) AND 6"-45° BEND AT ELEVATION 976.62.

BENCHMARKS

#1 "X" CHISLED IN NORTH FLANGE BOLT OF FIRE HYDRANT, 27' EAST OF THE CENTERLINE OF COMMERCE DR. S.W., 460' SOUTH OF THE CENTERLINE OF WARMINGTON ROAD S.W.
ELEVATION = 981.76

#2 "X" CHISLED IN NORTH FLANGE BOLT OF FIRE HYDRANT, AT THE SOUTHWEST CORNER OF WARMINGTON ROAD S.W., AND COMMERCE DR. S.W.
ELEVATION = 980.42

PIPE CHART

PIPE	SIZE	TYPE	LENGTH	GRADE	℄ IN	℄ OUT
P_1	15"	B	33'	0.5%	976.65	976.49
P_2	18"	B	168'	0.4%	976.24	975.57
P_{3A}	8"	B	60'	3.97%	983.00	980.62
P_3	12"	B	25.3'	1.4%	983.50	979.96
P_4	18"	B	116'	1.14%	975.57	974.25
P_5	12"	B	87'	1.5%	975.00	973.70

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

ISSUED
SEP 21 1998
HAMMONTREE & ASSOC., LTD.

SCALE: 1" = 30'
0 15 30 60

HAMMONTREE & ASSOCIATES, LTD.
CONSULTING ENGINEERING & SURVEYING
CANTON & AKRON, OHIO

KREKUS BELL ARCHITECT INC.
151 CHAGRIN STREET
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PHONE (440) 247-2744
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PROPOSED NEW PRODUCTION FACILITY
FOR
ELASTOCHEM, INC.
COMMERCE DRIVE MASSILLON, OHIO

ISSUE	DATE	DESCRIPTION

DRAWING NAME: SITE GRADING & UTILITY PLAN
DRAWING NO.: CE1
DATE: 9/17/98
PROJECT NO.
ISSUE

GENERAL NOTES

1. PRIOR TO THE COMMENCEMENT OF ANY PROJECT, A PRECONSTRUCTION MEETING WILL BE HELD AT THE CITY ENGINEER'S OFFICE. AT THIS TIME, THE PROJECT WILL BE DISCUSSED IN REGARD TO PROCEDURE, MATERIALS, INSPECTION, ETC... PHONE (330) 830-1722.

2. REFER TO SOILS REPORT FOR ALL SITE REQUIREMENTS ON COMPACTION, FILLING AND FOUNDATION 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 (ORD 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).

UTILITY NOTES

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

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

3. 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.

4. UTILITIES SHOWN WERE TAKEN PART FROM RECORDS OF RESPECTIVE UTILITY COMPANIES AND PART FROM A SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND OR OVERHEAD UTILITIES ADJACENT TO OR UPON THE PREMISES SHOWN ON THE PLAN.

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

6. 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.

7. ALL UTILITIES SHALL BE UNDERGROUND.

8. ALL STORM SEWERS UNDER PAVEMENT AND IN THE RIGHT-OF-WAY SHALL HAVE CLASS "B" BEDDING AND CONFORM TO ODOT ITEM 706.02 OR EQUAL MATERIAL APPROVED BY THE CITY.

9. ROOF DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

WATERLINE NOTES

1. WATERLINES CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATERLINE AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATERLINE IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

2. ALL TYPES OF INSTALLED WATER PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600.

3. ALL NEW, CLEANED OR REPAIRED WATERLINES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.

4. MINIMUM DEPTH OF WATERLINE SHALL BE 4 FEET TO TOP OF PIPE.

EROSION CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. SILT FENCES ARE TO BE CONSTRUCTED IN FRONT OF ALL STORM INLETS, HEADWALLS AND PIPE OUTLETS.

3. SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL FILL AREAS. AFTER 15 DAYS, TEMPORARY SEEDING WILL BE REQUIRED ON ALL FILL AREAS.

4. TEMPORARY SEEDING SHALL CONSIST OF 3-5 POUNDS OF RYE GRASS PER 1000 SQUARE FEET.

5. TOPSOIL STOCKPILES TO BE ENCIRCLED BY SILT FENCE AND/OR TEMPORARY SEEDING.

6. OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

7. REGULAR INSPECTION AND MAINTENANCE BY THE CONTRACTOR SHALL BE REQUIRED FOR ALL EROSION CONTROL PRACTICES.

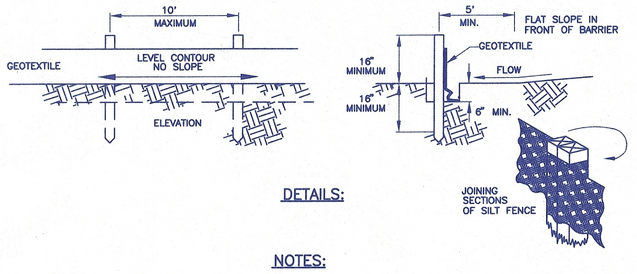
8. CONTRACTOR TO KEEP A COPY OF SOIL EROSION CONTROL PLAN AT THE CONSTRUCTION SITE AT ALL TIMES.

9. ALL EROSION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, SECOND EDITION, 1996.

10. THE CONTRACTOR SHALL CLEAN EXISTING ROADWAYS OF MATERIALS (SOIL, MUD) AT THE END OF DAY DUE TO THE CONSTRUCTION OF THE PROJECT. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED AT ALL POINTS WHERE TRAFFIC ENTERS AND LEAVES THE CONSTRUCTION SITE. (ROCK CONSTRUCTION ENTRANCE DETAIL)

11. RUNOFF WATER CARRYING SEDIMENT SHALL NOT BE PERMITTED TO FLOW ON TO ANY ADJACANT PROPERTIES, OR ON TO ADJACANT PUBLIC RIGHT OF WAYS. ALL OFF SITE AND ON SITE EROSION AND SEDIMENT DAMAGE SHALL BE THE TOTAL RESPONSIBILTY OF THE GENERAL CONTRACTOR, AND SHALL BE CORRECTED IMMEDIATELY.

12. CONTRACTOR TO INSTALL FILTER FABRIC FENCE AS SHOWN ON PLAN BEFORE CONSTRUCTION BEGINS.



DETAILS:

NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTRUBANCE 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 RE-ESTABLISHED 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

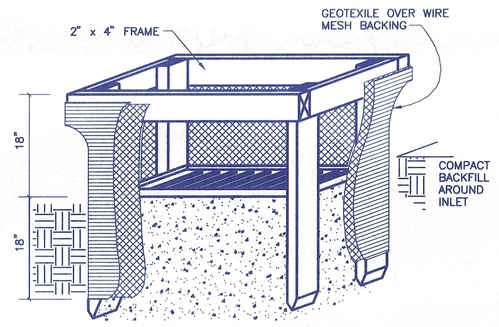
1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32" LONG. WOOD POST WILL BE 2" X 2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.

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 (SF)

N.T.S.



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.

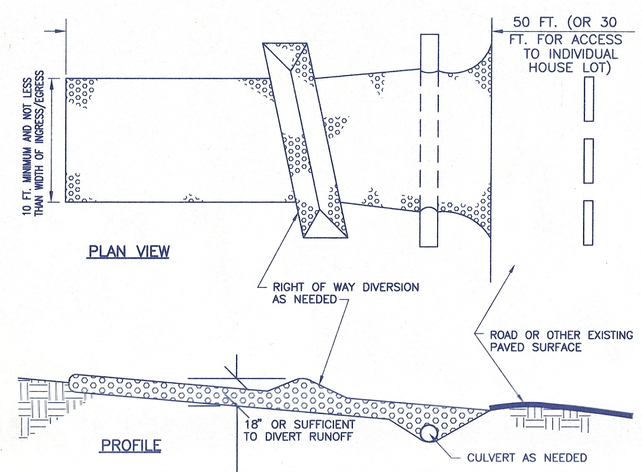
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

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

N.T.S.

(IP)



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 6 IN. THICK.

4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 10 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 (RCE)

N.T.S.

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES	LB./1,000 FT.^{2}	PER ACRE
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	4 BUSHEL 40 LB. 40 LB.
	PERENNIAL RYGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	2 BUSHEL 40 LB. 40 LB.
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	2 BUSHEL 40 LB. 40 LB.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

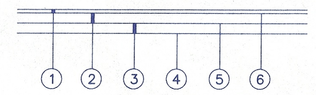
2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR RE-WORKED FOR 45 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.

3. THE SEED BED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEED BED PREPARATION IS NOT POSSIBLE.

4. SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

5. SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR OF CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

TEMPORARY SEEDING (TS)

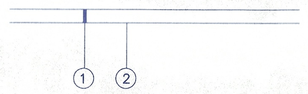


1) ITEM 404 — 1" ASPHALT CONCRETE
2) ITEM 301 — 3" BITUMINOUS AGGREGATE BASE
3) ITEM 304 — 6" AGGREGATE BASE (2-3" LIFTS)
4) ITEM 203.13 — COMPACTED SUBGRADE
5) ITEM 408 — PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
6) ITEM 407 — TACK COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 1997.

ASPHALT PAVEMENT SECTION DETAIL

NTS



1) ITEM 452 — 8" PLAIN CONCRETE
2) ITEM 203.13 — 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, 1997.

CONCRETE PAVEMENT SECTION DETAIL

NTS

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 1/2 1/4-1 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)

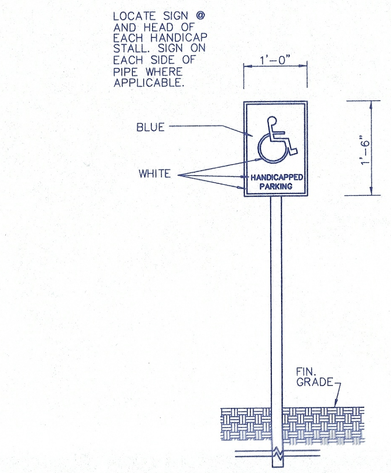
HAMMONTREE & ASSOCIATES, LTD.
CONSULTING ENGINEERING & SURVEYING
CANTON & AKRON, OHIO

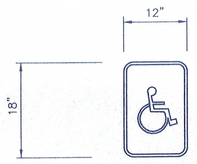
KREKUS ARCHITECT INC.
151 BELL STREET
CHAGRIN FALLS
OHIO 44022
PHONE (440) 247-2744
FAX (440) 247-2715
Email SJKA@aol.com

PROPOSED NEW PRODUCTION FACILITY
FOR
ELASTOCHEM, INC.
COMMERCE DRIVE MASSILLON, OHIO

ISSUE	DATE	DESCRIPTION

DRAWING NAME: SITE DETAILS
DRAWING NO.: CE2
DATE: 9/17/98
PROJECT NO.
ISSUE



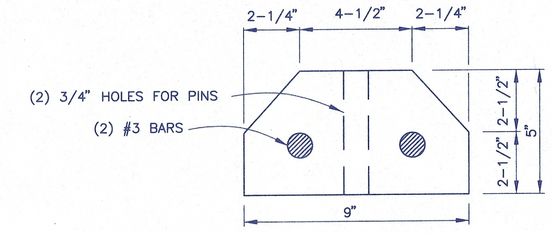


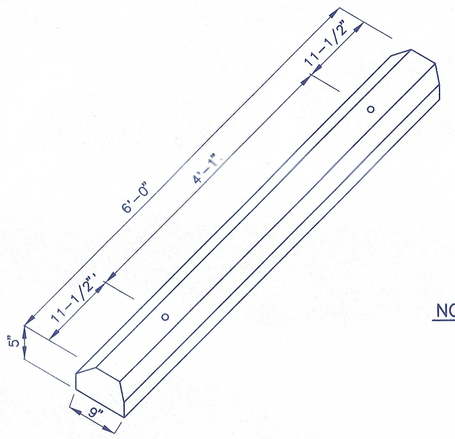
NOTES:

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.

HANDICAPPED PARKING SIGN

N.T.S.



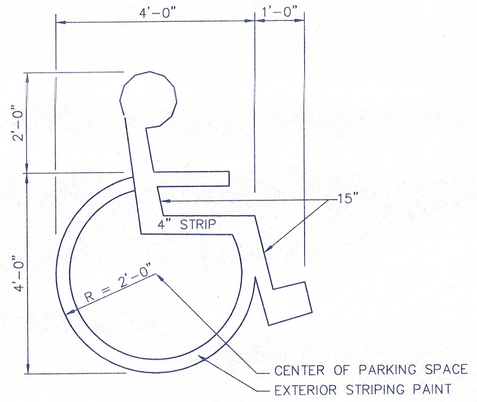


NOTE:

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

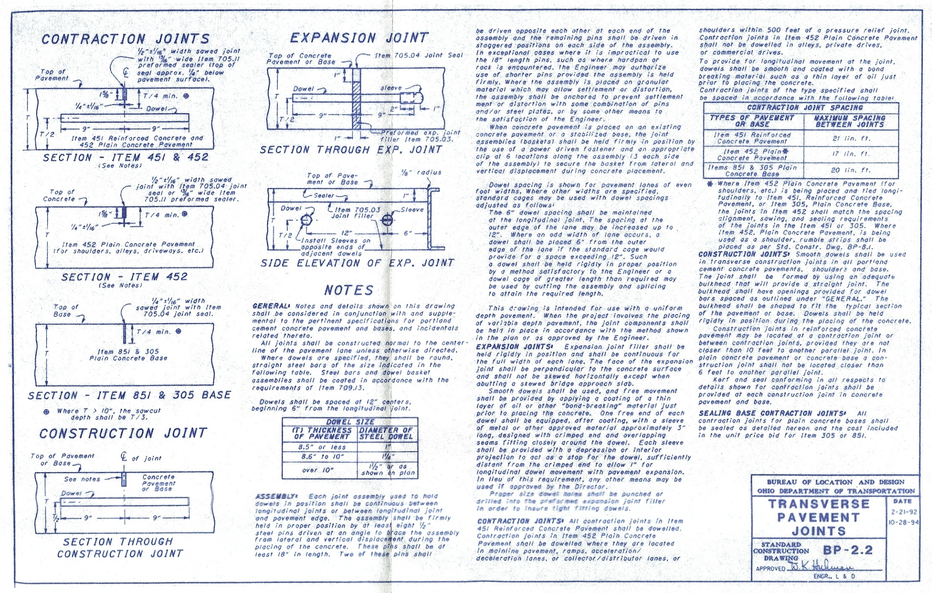
TYPICAL PRECAST PARKING CURB STOP DETAIL

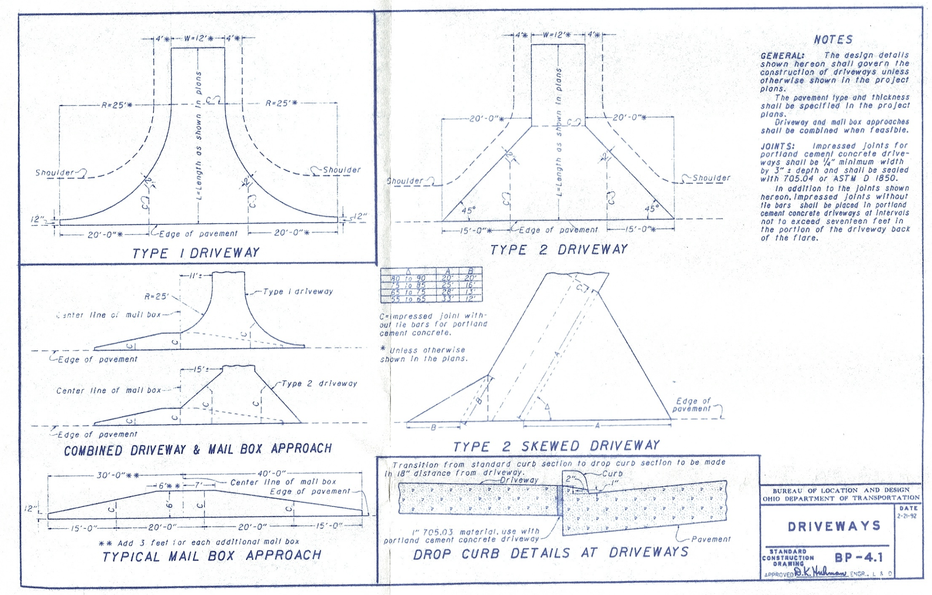
NO SCALE

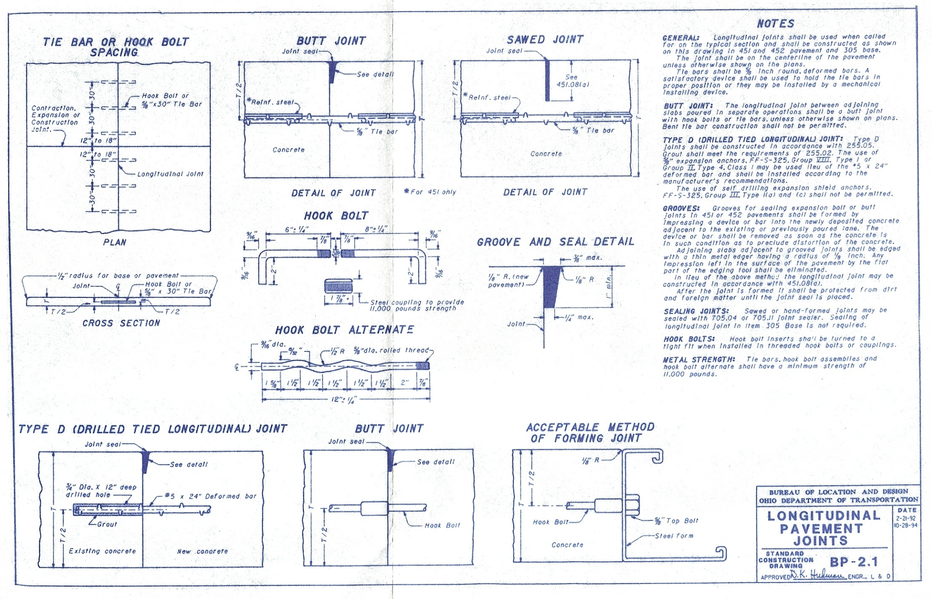


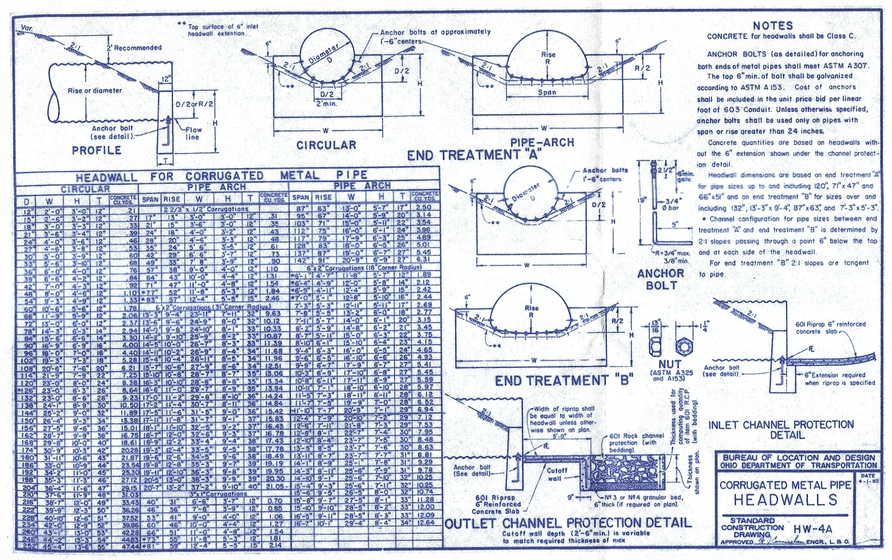
PARKING LOGO DETAIL

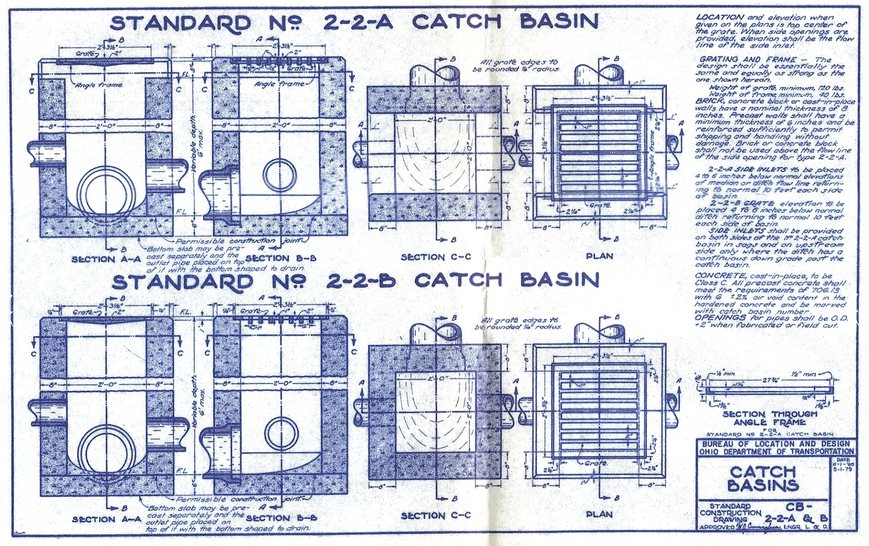
N.T.S.











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PROPOSED NEW PRODUCTION FACILITY
FOR
ELASTOCHEM, INC.
COMMERCE DRIVE MASSILLON, OHIO

ISSUE	DATE	DESCRIPTION

DRAWING NAME: SITE DETAILS
DRAWING NO. CE3
DATE 9/17/98 | PROJECT NO. | ISSUE