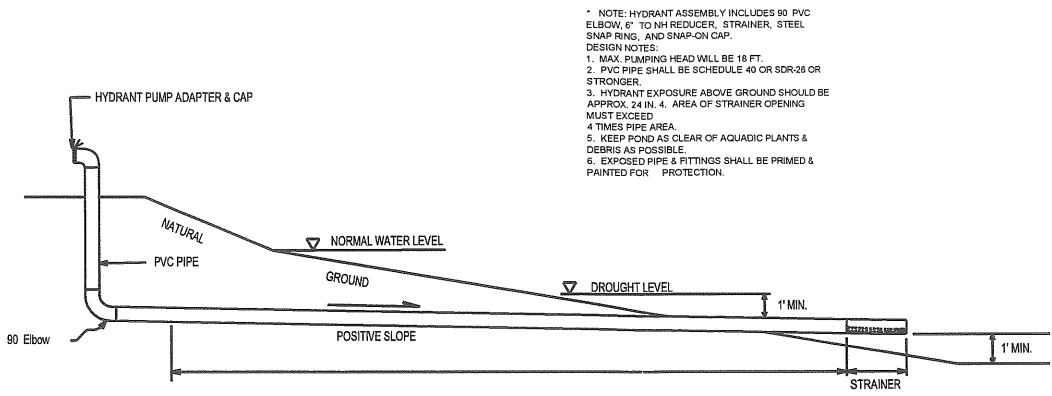
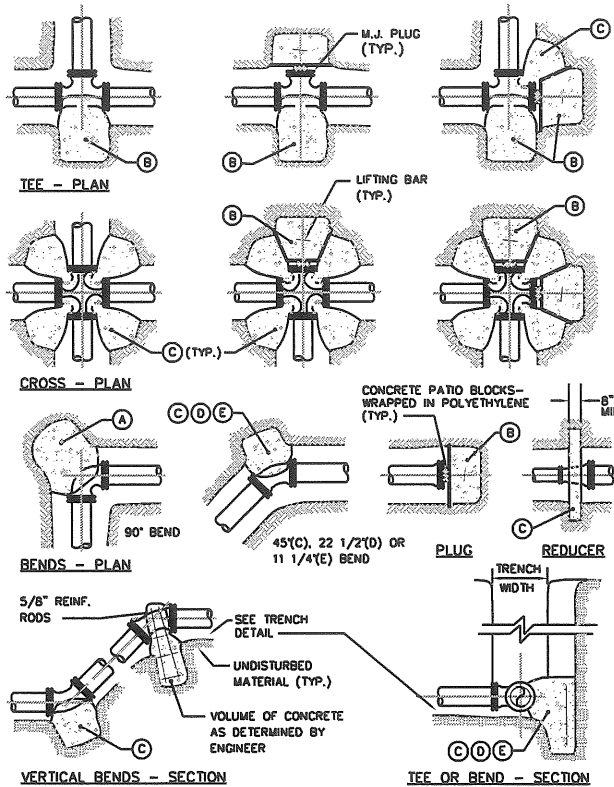


357-A-1

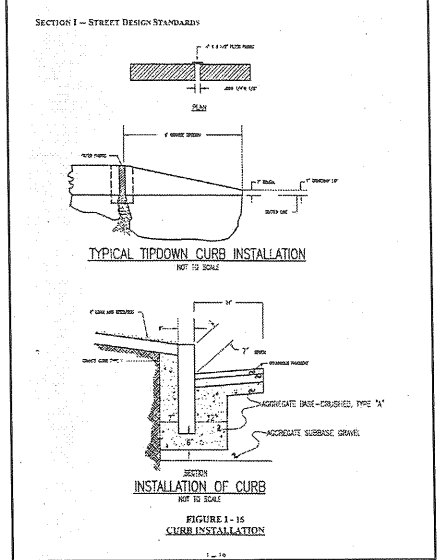
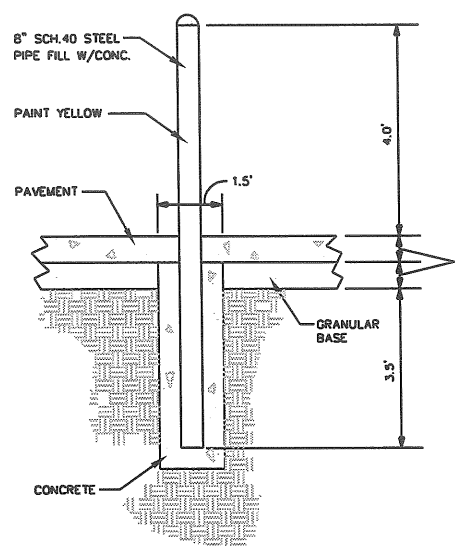
910-910 Riverside St

Scale Pads / City Reclamation

L. R. Higgins



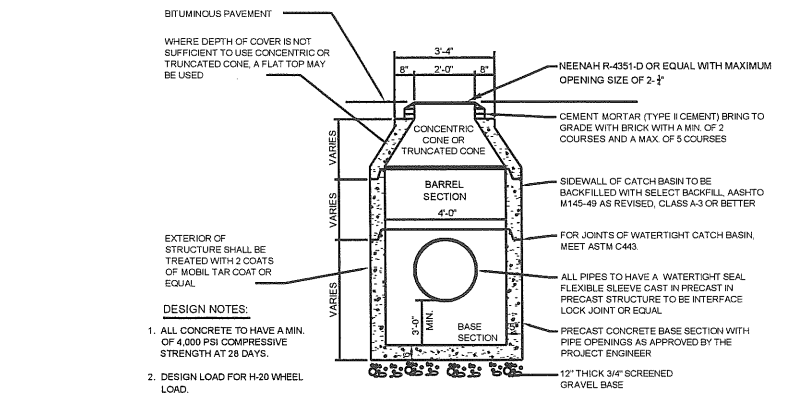
- * NOTE: HYDRANT ASSEMBLY INCLUDES 90° PVC ELBOW, 6\"/>
 1. MAX. PUMPING HEAD WILL BE 16 FT.
 2. PVC PIPE SHALL BE SCHEDULE 40 OR SDR-26 OR STRONGER.
 3. HYDRANT EXPOSURE ABOVE GROUND SHOULD BE APPROX. 24 IN. 4. AREA OF STRAINER OPENING MUST EXCEED 4 TIMES PIPE AREA.
 5. KEEP POND AS CLEAR OF AQUATIC PLANTS & DEBRIS AS POSSIBLE.
 6. EXPOSED PIPE & FITTINGS SHALL BE PRIMED & PAINTED FOR PROTECTION.



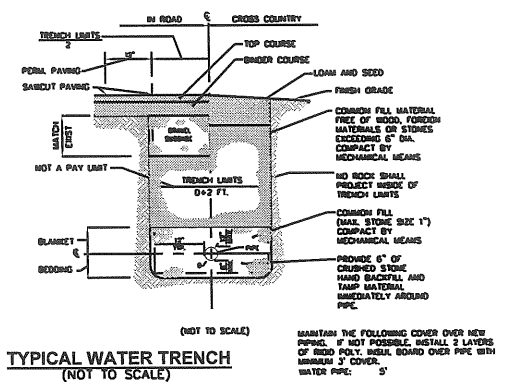
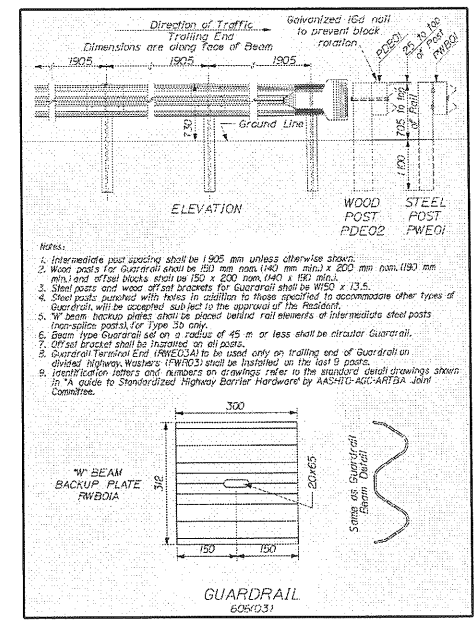
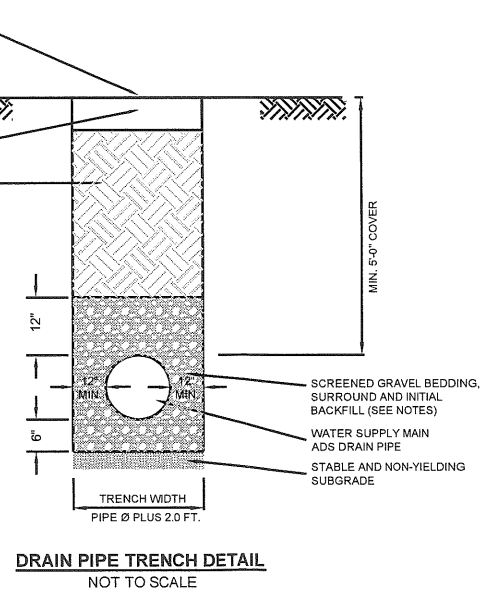
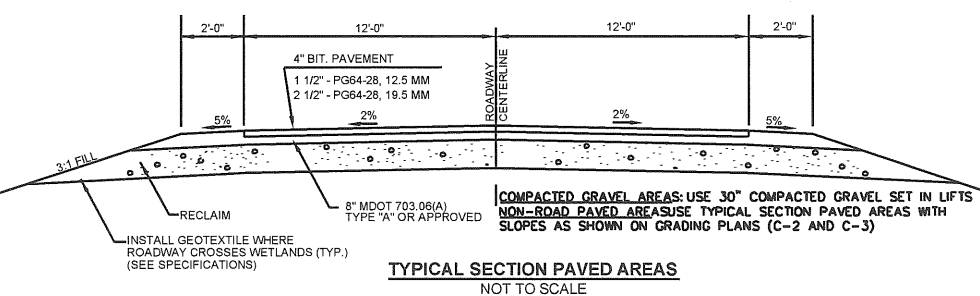
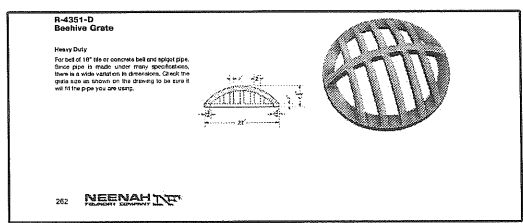
THRUST BLOCK SCHEDULE		SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL											
REACTION TYPE	PIPE SIZE	PIPE SIZE											
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
TEST PRESSURE = 100 PSI	A	0.89	2.19	3.92	5.57	8.62	10.91	15.41	18.02	24.06	34.64	53.83	77.39
	B	0.65	1.55	2.76	4.19	6.09	8.37	10.89	13.87	17.01	24.49	38.06	54.72
	C	0.48	1.19	2.12	3.01	4.66	5.91	8.34	9.71	13.02	18.75	29.13	41.88
	D	0.25	0.60	1.08	1.54	2.37	3.01	4.25	4.97	6.64	9.56	14.85	21.55
	E	0.13	0.30	0.54	0.77	1.19	1.52	2.12	2.51	3.33	4.79	7.45	10.71

Other test pressures for the above reactions: TEST PRESSURE TO BE 200 PSI MIN. AT LOW END OF THE TEST SECTION. SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 200 PSI TEST PRESSURE FOR ABOVE NUMBERS DOUBLE.

- NOTES:
1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 3. PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
 4. REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF 1 TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
 5. WEGA-LUG RESTRAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENTS FOR THRUST RESTRAINT.
 6. ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE OR BUILDING PAPER PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.
 7. THREADED ROD SHALL BE ANSI A242 F150 PIPE RESTRAINT NUTS TO MATCH ANHMA C111. THREADED RODS AND NUTS TO BE FIELD COATED WITH BITUMINOUS PAINT.
 8. THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES.
 9. INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.



- DESIGN NOTES:
1. ALL CONCRETE TO HAVE A MIN. OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 2. DESIGN LOAD FOR H-20 WHEEL LOAD.
 3. CATCH BASIN MANHOLE TO CONFORM TO ASTM C478 SPECIFICATIONS.
 4. REINFORCE TO 0.12 IN. S.Q.F.F.



This set of Plans is a REDUCED REPRODUCTION of full size engineering drawings and is not plotted to scale. For accurate measurement or distances and dimensions, refer to the original stamped full size plans.

NO.	DATE	DESCRIPTION	BY	CHKD
NOT FOR CONSTRUCTION				
PAGE 2 OF 3				
DETAILS				
CITY OF PORTLAND				
SOLID WASTE TRANSFER FACILITY				
RIVERSIDE STREET				
PORTLAND, MAINE				
PROJECT NO.: 2766.1		DATE: 08-17-05		
SCALE: AS SHOWN		FILE: 2766.1 RIVERSIDE.DWG		
PREPARED FOR CITY OF PORTLAND MINOR SITE PLAN REVIEW APPLICATION				
ST. GERMAIN & ASSOCIATES, INC. 846 MAIN STREET, SUITE 3 WESTBROOK, MAINE 04092 TEL: (207) 591-7000 FAX: (207) 591-7329 EMAIL: INFO@STGERMAIN.COM				

GENERAL NOTES AND SPECIFICATIONS FOR EROSION CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR STORM WATER CONTROL AND RUNOFF DURING ALL PHASES OF CONSTRUCTION.
- THIS PLAN IS TO BE USED AS A GUIDELINE ONLY. ADDITIONAL EROSION CONTROLS MAY BE DICTATED BY FIELD CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

- CONSTRUCTION SEQUENCE
 - CONSTRUCT PERMANENT STORMWATER DITCHES, TEMPORARY DIVERSION SWALES AND PIPING. ERECT HAY BALE DIKES AND/OR SILT FENCES AS SHOWN ON DRAWINGS AND AS MAY BE REQUIRED IN THE FIELD TO PROTECT PROPERTY, WATERWAYS, WELLS AND SPRINGS. EXCAVATE AND FILL FOR ROADWAY AND BUILDING SITES.
 - INSTALL HAY BALE FILTERS AT PIPE INLETS.
 - COMMENCE GRADING. STOCKPILE SOIL SO THAT EROSION IS MINIMIZED. EXTRA PRECAUTIONS SHALL BE TAKEN WHEN SOIL IS SATURATED.
 - GRADE SITE SO THAT SOIL EROSION CAUSED BY RUNOFF WILL BE MINIMIZED. ON STEEP SLOPE RUN DOZER PERPENDICULAR TO SLOPE SO THAT TREADS OF DOZER CREATE GROOVES TO TEMPORARILY SCARIFY SURFACE AND MINIMIZE RUNOFF VELOCITIES (CAN ALSO BE USED TO ANCHOR MULCH).
 - TEMPORARY SEED AND MULCH ALL EXPOSED GROUND.
 - INSTALL EROSION CONTROL BLANKET AS SPECIFIED.
 - ESTABLISH PERMANENT VEGETATION UPON COMPLETION OF FINAL GRADING IN A GIVEN AREA.

- MATERIALS
 - HAY BALES: SECURELY TIED BALED HAY AT LEAST 14 INCHES BY 18 INCHES BY 30 INCHES LONG.
 - MULCH MATERIAL: SELECT MULCH MATERIAL FOR EROSION CONTROL THAT WILL BEST MEET THE SITE CONDITIONS FROM THE FOLLOWING:
 - HAY OR STRAW - SHALL BE DRY, FREE OF MOLD AND WEED SEEDS.
 - MULCH ANCHORING: WHEN MULCH MUST BE HELD IN PLACE, ONE OF THE FOLLOWING MULCH ANCHORING MATERIALS SHALL BE USED:
 - ASPHALT EMULSION - TYPES RS-1, RS-2, MS-2 OR SS-1 IN COMPLIANCE WITH ASTM D977.
 - MULCH NETTING (PAPER, TWINE, PLASTIC, OR PLASTIC AND WOOD FIBER).
 - FERTILIZER: COMPLETE FERTILIZER 10-20-20 (STANDARD PRODUCT).
 - LIME: GROUND LIMESTONE CONTAINING NOT LESS THAN 95% TOTAL CARBONATES (CALCIUM OR MAGNESIUM).
 - TEMPORARY SEED MIXTURE: WHEN IT IS IMPRACTICAL TO ESTABLISH PERMANENT PROTECTIVE VEGETATION ON DISTURBED EARTH BY OCTOBER 15, USE "CONSERVATION MIX" OR THE FOLLOWING SEED MIXTURE:

KIND OF SEED	LBS PER ACRE
SWITCHGRASS (BLACKWELL OR SHELTER)	4.0
BIG BLUESTEM (NIAGARA OR KAW)	4.0
LITTLE BLUESTEM (CAMPER OR BLAZE)	2.0
SAND LOVEGRASS (NE-27 OR BLAZE)	1.5
BIRDSFOOT TREFLOIL (Viking)	2.0

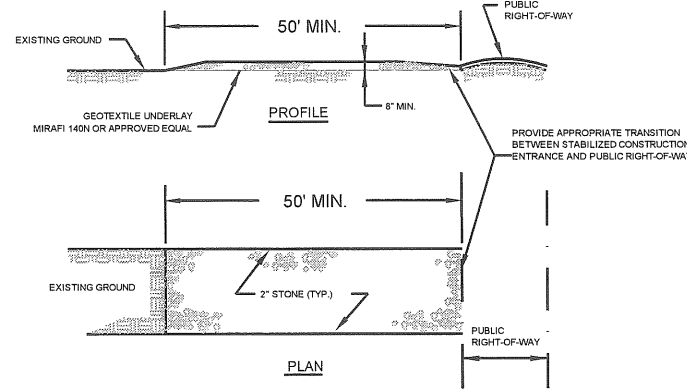
- PERMANENT SEED MIXTURE FOR CLASS B (FIELD) RESTORATION NORMALLY USED FOR ALL SLOPE WORK. THIS SEED SHALL CONFORM TO THE TABLE BELOW UNLESS AMENDED BY THE ENGINEER TO SUIT SPECIAL LOCAL CONDITIONS ENCOUNTERED. THIS SEED SHALL BE FURNISHED ON A PLS BASIS.

KIND OF SEED	PLS PER ACRE, LBS
CREeping RED FESCUE	20
RED TOP	2
TALL FESCUE	20
TOTAL	42

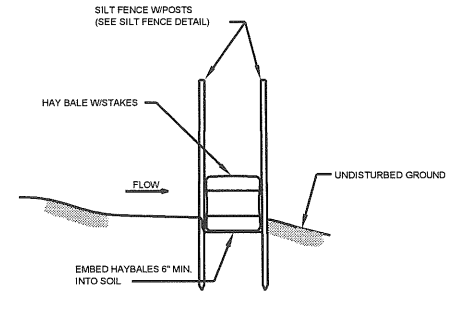
- SEEDING AND MULCHING
 - ALL AREAS WHICH WILL REMAIN OPEN SHALL BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF BEING STRIPPED OR BACKFILLED AND GRADED.
 - THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR TEMPORARY SEEDING:
 - APPLY LIME AT A RATE OF 75 TO 100 POUNDS PER 1000 SQUARE FEET. INCORPORATE INTO TOP TWO INCHES OF SOIL.
 - APPLY FERTILIZER AT A RATE OF 30 POUNDS PER 1000 SQUARE FEET. MIX THOROUGHLY INTO THE TOP TWO INCHES OF SOIL.
 - APPLY SEED MIXTURE AT A RATE OF TWO POUNDS PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. RAKE LIGHTLY.
 - APPLY MULCH MATERIAL WITHIN 24 HOURS AFTER SEEDING IN ACCORDANCE WITH THE FOLLOWING:

HAY OR STRAW: APPLICATION RATE - 75 TO 100 POUNDS PER 1000 SQUARE FEET. SPREAD BY HAND OR WITH MACHINE. ANCHOR ON SLOPES AND WHERE SUBJECT TO BLOWING OR SLIPPING.
 - ANCHOR MULCH ON ALL SLOPES EXCEEDING 5% AND OTHER AREAS AS REQUIRED USING ONE OF THE FOLLOWING METHODS:
 - ASPHALT EMULSION: APPLY ASPHALT EMULSION AT A RATE OF 3.5 TO 4.5 GALLONS PER 1000 SQUARE FEET. MAY BE BLOWN ON WITH HAY OR STRAW OR SPRAYED ON AFTER SPREADING HAY OR STRAW. PROPER EQUIPMENT SHALL BE USED TO APPLY EMULSION.
 - MULCH NETTING: SPREAD OVER LOOSE MULCH AND PIN TO THE SOIL IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

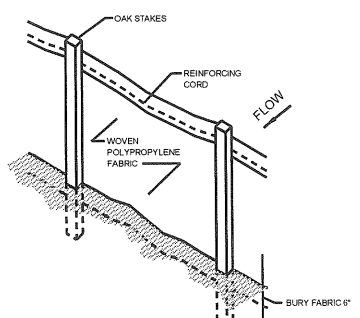
- MAINTENANCE OF EROSION CONTROL STRUCTURES
 - HAY BALES SHALL BE REPLACED WHEN THEY BECOME CLOGGED WITH SOIL PARTICLES OR AS DIRECTED BY THE ENGINEER OR OWNER.
 - WHEN THE SEDIMENT ACCUMULATION REACHES A DEPTH OF 12 INCHES BEHIND THE SILT FENCE OR CHECK DAMS, IT SHALL BE DISPOSED OF. REPAIR FENCE, EROSION CONTROLS AND CHECK DAMS AS NECESSARY.
 - REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY.
 - INSPECT, MAINTAIN AND/OR REPAIR ALL EROSION AND SEDIMENTATION CONTROLS EACH WEEK DURING DRY PERIODS. INSPECT, MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH PRECIPITATION EVENT OF 0.1 INCHES OR MORE.



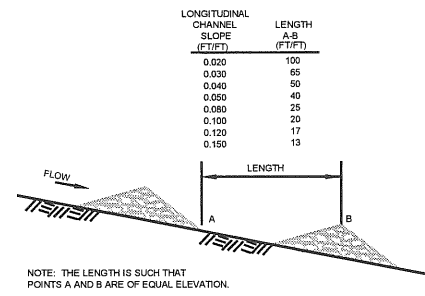
STABILIZED CONSTRUCTION ENTRANCE DETAIL
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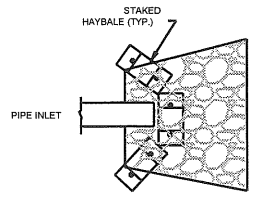
HAY BALE/SILT FENCE BARRIER
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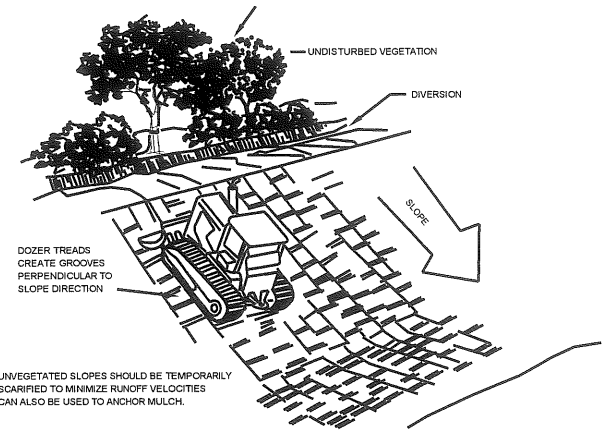
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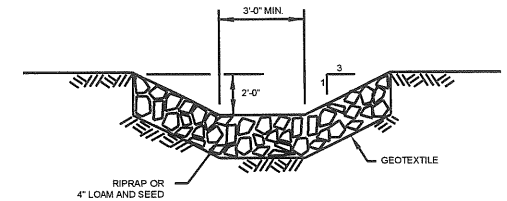
CHECK DAMS
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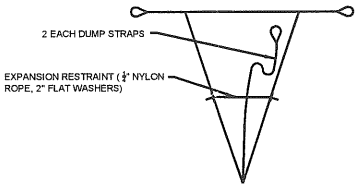
HAYBALE INLET PROTECTION
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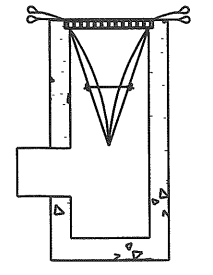
BANK STABILIZATION DETAIL
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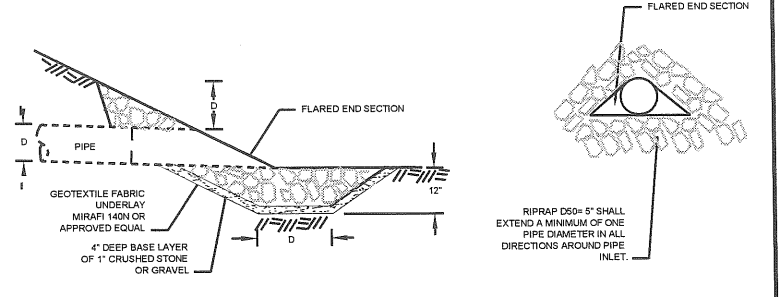
TYPICAL SWALE DETAIL
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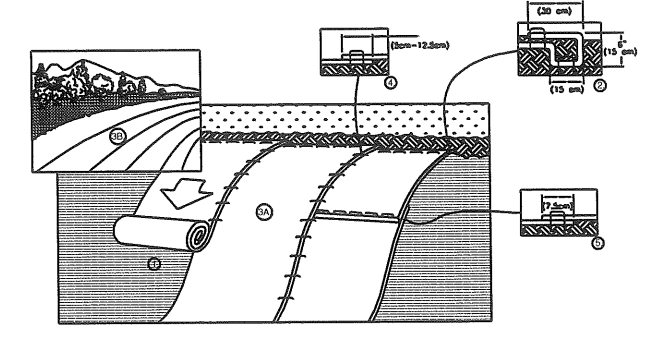
BAG DETAIL
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INSTALLATION DETAIL
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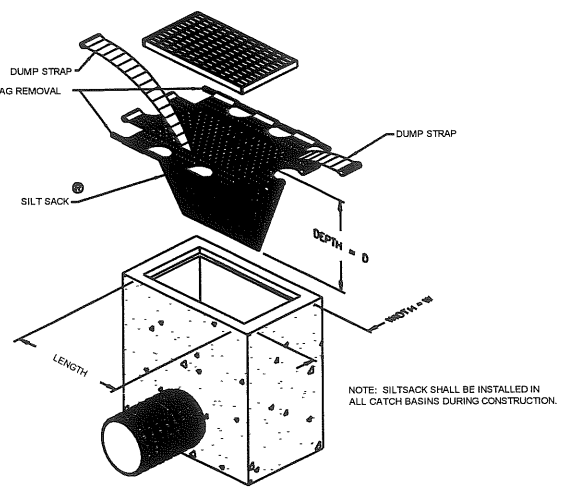


TYPICAL CULVERT INLET DETAIL
NOT TO SCALE



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" (60cm-125cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

TYPICAL EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE



SILTSACK DETAIL
NOT TO SCALE

- MAINTENANCE SCHEDULE:**
- EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT.
 - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
 - THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

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NO.	DATE	DESCRIPTION	BY	CHKD

NOT FOR CONSTRUCTION

PAGE 3 OF 3

EROSION CONTROL DETAILS
CITY OF PORTLAND
SOLID WASTE TRANSFER FACILITY
RIVERSIDE STREET
PORTLAND, MAINE

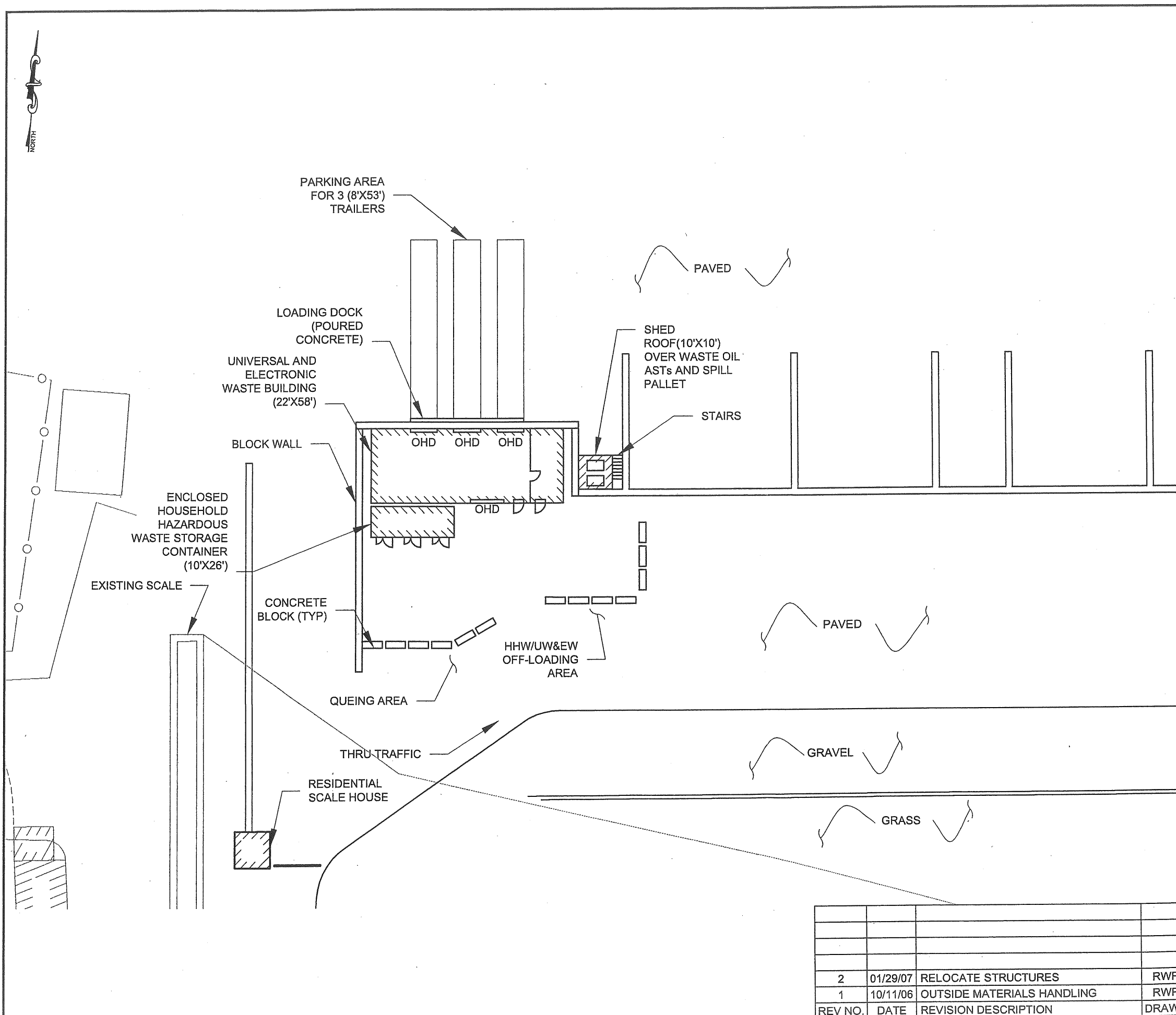
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SCALE: AS SHOWN	FILE: 2766.1 RIVERSIDE.DWG

PREPARED FOR
CITY OF PORTLAND
MINOR SITE PLAN REVIEW
APPLICATION

ST. GERMAIN & ASSOCIATES, INC.
846 MAIN STREET, SUITE 3
WESTBROOK, MAINE 04092
TEL: (207) 591-7000 FAX: (207) 591-7329
EMAIL: INFO@STGERMAIN.COM



M:\DWG\2844 City of Portland\2844.2 UWASTE BLDG.DWG Feb 01, 2007 - 2:23pm Plotted by: TPOLLOCK



LEGEND:

- BUILDING
- EDGE PAVEMENT
- CHAIN LINK FENCE

NOT FOR CONSTRUCTION

TITLE:
 FIGURE 1
 UNIVERSAL WASTE & HOUSEHOLD
 HAZARDOUS WASTE HANDLING AREA PLAN
 CITY OF PORTLAND
 SOLID WASTE TRANSFER FACILITY
 RIVERSIDE STREET
 PORTLAND, MAINE

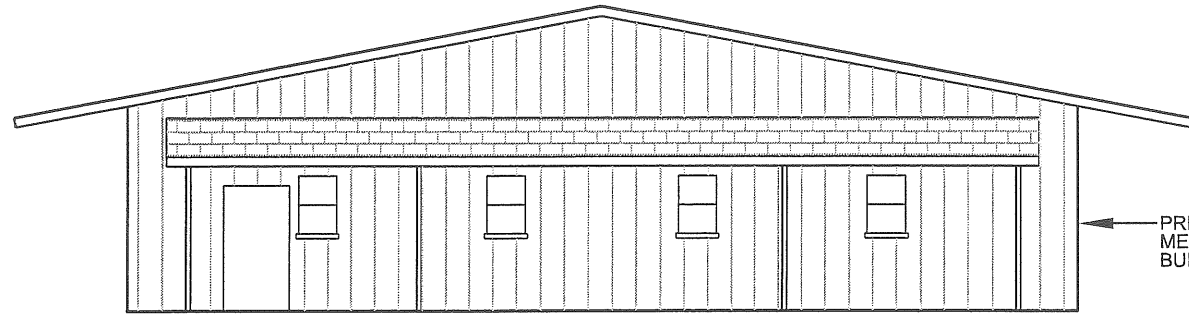
PREPARED FOR:
 CITY OF PORTLAND
 PORTLAND, MAINE

846 Main St., Suite 3
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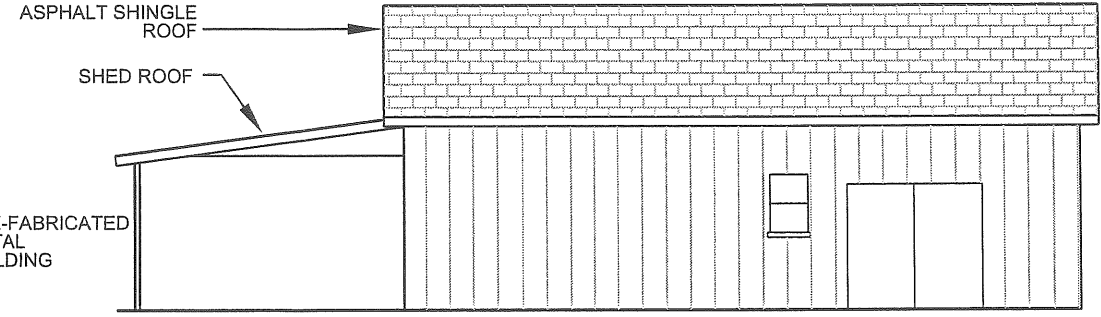
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1	10/11/06	OUTSIDE MATERIALS HANDLING	RWP

DATE: 05/08/06 **PROJECT:** 2844.2
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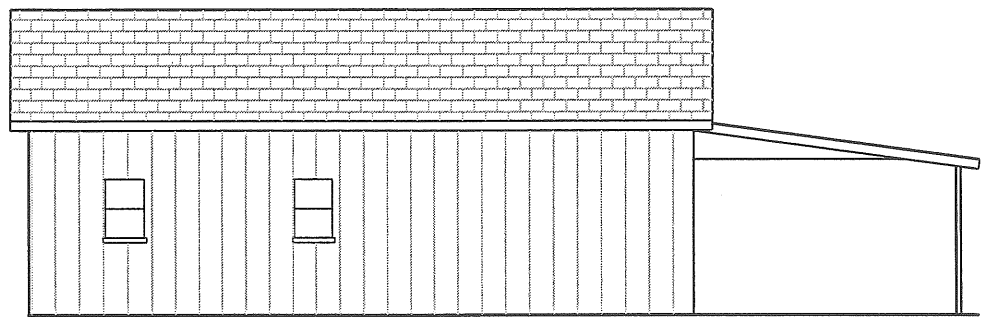
ST. GERMAIN & ASSOCIATES, INC.



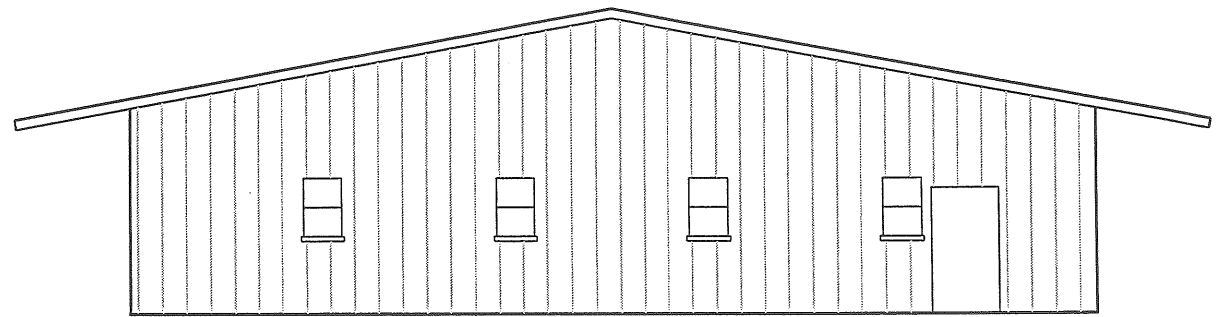
UNIVERSAL WASTE BUILDING WEST ELEVATION
SCALE: 1"=10'



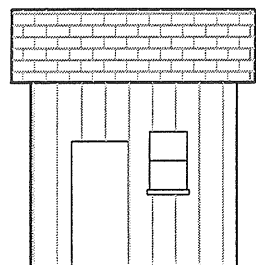
UNIVERSAL WASTE BUILDING SOUTH ELEVATION
SCALE: 1"=10'



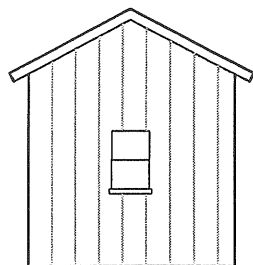
UNIVERSAL WASTE BUILDING NORTH ELEVATION
SCALE: 1"=10'



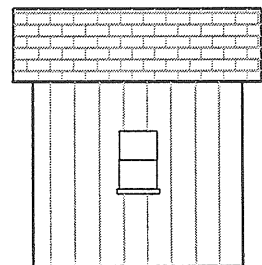
UNIVERSAL WASTE BUILDING EAST ELEVATION
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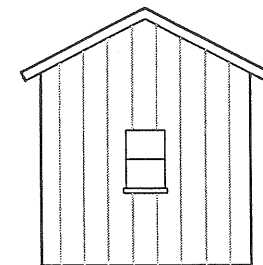
RESIDENTIAL GATE HOUSE SOUTH ELEVATION
SCALE: 1"=10'



RESIDENTIAL GATE HOUSE WEST ELEVATION
SCALE: 1"=10'



RESIDENTIAL GATE HOUSE NORTH ELEVATION
SCALE: 1"=10'



RESIDENTIAL GATE HOUSE EAST ELEVATION
SCALE: 1"=10'

NOTES:

1. CONCEPTUAL BUILDING ELEVATIONS.
2. EXACT FOOTPRINT AND LOCATIONS OF OPENINGS SUBJECT TO CHANGE.

SKETCH OF BUILDING ELEVATIONS
SOLID WASTE TRANSFER FACILITY
RIVERSIDE ROAD
PORTLAND, MAINE

PREPARED FOR
CITY OF PORTLAND
MINOR SITE PLAN REVIEW
APPLICATION

PROJECT: 2766.1 DATE: 09/16/05
SCALE: AS NOTED FILE: 2766.1 BLDG
ST. GERMAIN & ASSOCIATES, INC.
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