

**CHEMICAL BUILDING  
 LIGHTING AND SYSTEMS PLAN**  
 SCALE: 1/4"=1'-0"

NOT SURE WHEN  
 THIS GOES YET

**NOTES:**

1. FOR LEGEND AND GENERAL NOTES REFER TO DRAWINGS E-1 AND E-2.
2. REFER TO THE CONTRACT DRAWINGS FOR EXTERIOR LIGHTING CONTROL CIRCUITRY.
3. CIRCUIT NUMBERS INDICATED ON THIS DRAWING REFER TO PANELBOARD LP-1, UNLESS OTHERWISE NOTED. FOR PANELBOARD SCHEDULES, REFER TO THE RESPECTIVE SCHEDULE ON THE CONTRACT DRAWINGS.
4. BUILDING MOUNTED EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY A SINGLE PHOTOCELL WITH H-0-A CONTROLS MOUNTED IN EXTERIOR LIGHTING CONTROL PANEL (ELCP-1) LOCATED IN THE ELECTRICAL ROOM. FOR TYPICAL SCHEMATIC DIAGRAM REFER TO THE CONTRACT DRAWINGS.
5. PROVIDE 120 VOLT GFCI TYPE RECEPTACLE WITH A WEATHER-PROOF WHILE-IN-USE COVER. LOCATE THE RECEPTACLE A MINIMUM OF 2'-0" ABOVE FINISHED GRADE OR FLOOR AS APPLICABLE.
6. FIELD LOCATE THE FIRE ALARM STROBE LIGHT AS HIGH AS POSSIBLE ON THE CORNER OF THE BUILDING TO ENSURE A HIGH VISIBILITY IN THE EVENT OF AN ALARM CONDITION. PROVIDE ALL NECESSARY MOUNTING BRACKETS AND HARDWARE FOR A COMPLETE INSTALLATION.
7. PROVIDE AN ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP) FOR A COMPLETE FIRE ALARM SYSTEM. SEE RISER DIAGRAM DRAWING FOR ADDITIONAL REQUIREMENTS.
8. HEAT DETECTORS LABELED AS "FIXED TEMP" ARE FIXED TEMPERATURE ONLY WITH TEMPERATURE RATING AS NOTED. ALL OTHER HEAT DETECTORS ARE FIXED TEMPERATURE/RATE OF RISE TYPE DETECTORS.
9. PROVIDE A TWO POLE LIGHT SWITCH, CONDUIT AND WIRING AS INDICATED FOR INTERLOCKING WITH EXHAUST FAN EF-1 LOCATED IN THE HYPO ROOM. REFER TO THE APPLICABLE SCHEMATIC ON THE SCHEMATIC DRAWINGS FOR ADDITIONAL REQUIREMENTS.

**EQUIPMENT LEGEND:**

- ① PANELBOARD LP-1
- ② EXTERIOR LIGHTING CONTROL PANEL ELCP-1
- ③ EXTERIOR LIGHTING PHOTOCELL
- ④ PANELBOARD LP-1
- ⑤ FIRE ALARM CONTROL PANEL FACP
- ⑥ FIRE ALARM SYSTEM STROBE LIGHT
- ⑦ FIRE ALARM REMOTE ANNUNCIATOR PANEL

**LIGHT FIXTURE MOUNTING HEIGHTS**

ENTRANCE	CEILING MOUNT (APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR)
HYPO ROOM	CEILING MOUNT (APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR)
ELECTRICAL ROOM	CEILING MOUNT (APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR)
FLUORIDE ROOM	CEILING MOUNT (APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR)
GENERATOR ROOM	CEILING MOUNT (APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR)

DESIGNED BY: A/JD	CAD COORD: LAB	CHECKED BY: A/JD	DATE:	PROJECT NO: 12531C	
<b>WRIGHT-PIERCE</b> Engineering a Better Environment Offices Throughout New England   www.wright-pierce.com 888.621.8156					
GREATER AUGUSTA UTILITY DISTRICT RIVERSIDE CHEMICAL BUILDING AUGUSTA, MAINE			LIGHTING AND SYSTEMS PLAN		
DRAWING					
E-5					

**EROSION AND SEDIMENTATION CONTROL NOTES**

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE "MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES", MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH 2003.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

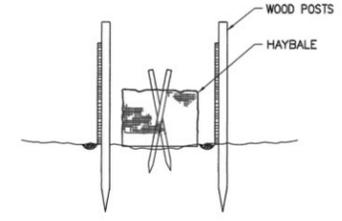
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES", MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MARCH 2003.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS.
- IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- STABILIZATION SCHEDULE BEFORE WINTER:
  - SEPTEMBER 15** ALL DISTURBED AREAS MUST BE SEEDING AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDING AND MULCHED. SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDING. ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDING AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED.
  - OCTOBER 1** ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION CONTROL BLANKET.
  - NOVEMBER 15** ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
  - DECEMBER 1** ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.

**EROSION CONTROL - WINTER CONSTRUCTION**

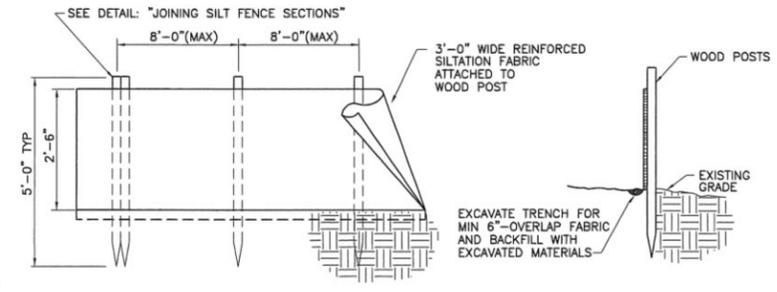
- WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:

**EROSION CONTROL - WETLAND NOTES**

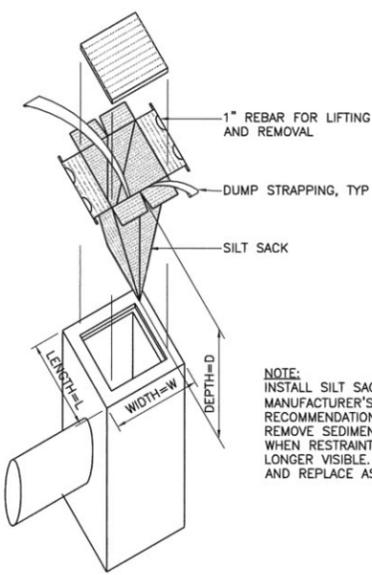
- WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS
- ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS.
- WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
- STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
- SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.



**COMBINATION SILT FENCE AND HAY BALE BARRIER**  
NTS

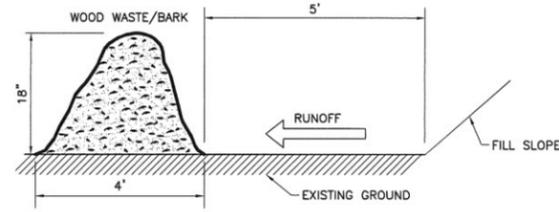


**SILT FENCE INSTALLATION DETAIL**  
NTS

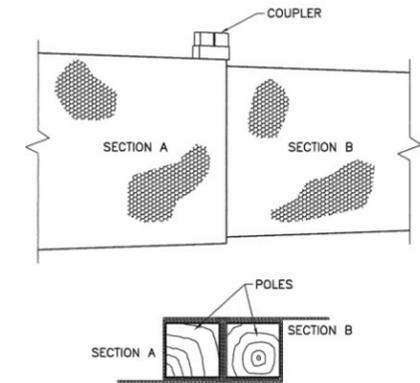


**SILT SACK CATCH BASIN INLET**  
NTS

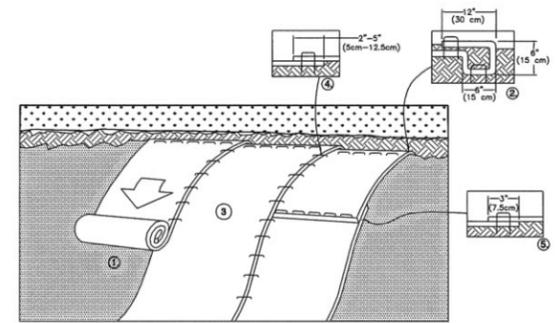
NOTE: INSTALL SILT SACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILT SACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.



**WOOD WASTE/BARK FILTER BERM**  
NTS



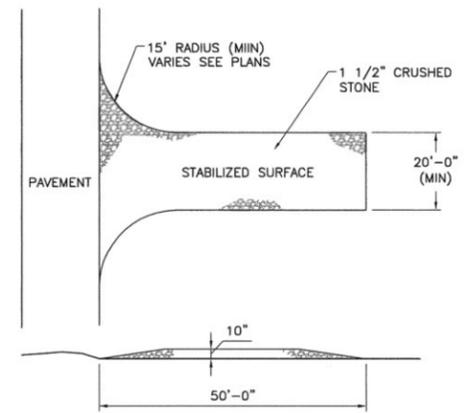
**JOINING SILT FENCE SECTIONS**  
NTS



NOTES:

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
- ROLL THE RECP's DOWN THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
- CONSECUTIVE RECP's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH. NOTE: \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

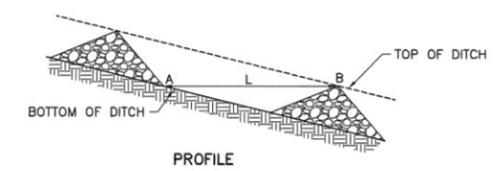
**EROSION CONTROL BLANKET-SLOPE INSTALLATION**  
NTS



(TEMPORARY, TO BE REMOVED PRIOR TO FINAL SITE PAVING)

**STABILIZED CONSTRUCTION ENTRANCE**  
NTS

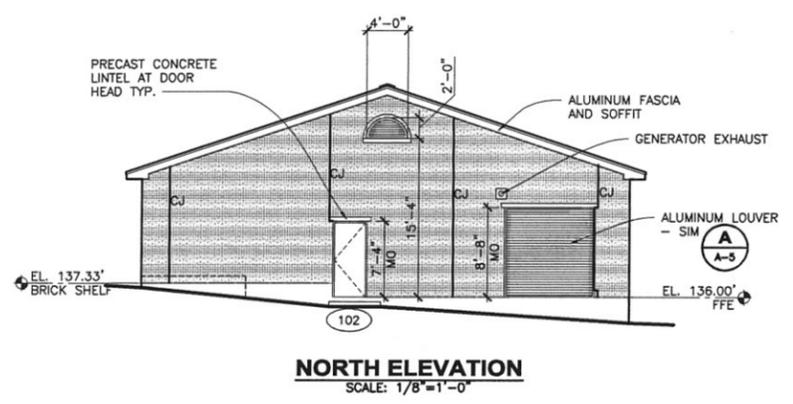
DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13



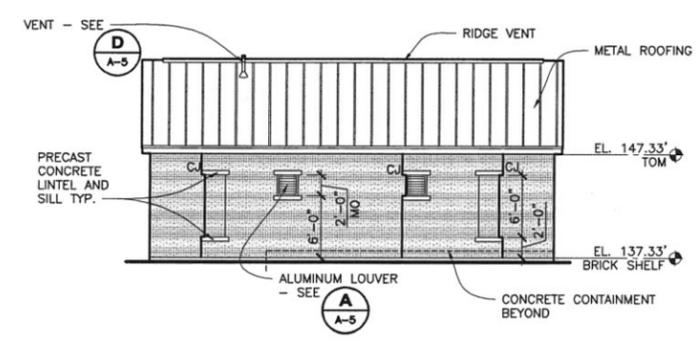
**STONE CHECK DAM**  
NTS

DATE	
APP'D	
SUBMISSIONS/PREVIOUS	
NO.	
DESIGNED BY: LAB	
CAD COORD. BY:	
CAD:	
CHECKED BY:	
DATE:	
APPROVED BY:	
DATE:	
PROJECT NO.:	12531C
<p><b>WRIGHT-PIERCE</b> Engineering a Better Environment Offices Throughout New England 888.621.8156   www.wright-pierce.com</p>	
<p>GREATER AUGUSTA UTILITY DISTRICT RIVERSIDE CHEMICAL BUILDING AUGUSTA, MAINE</p>	
<p>EROSION CONTROL NOTES &amp; DETAILS</p>	
<p>DRAWING C-10</p>	

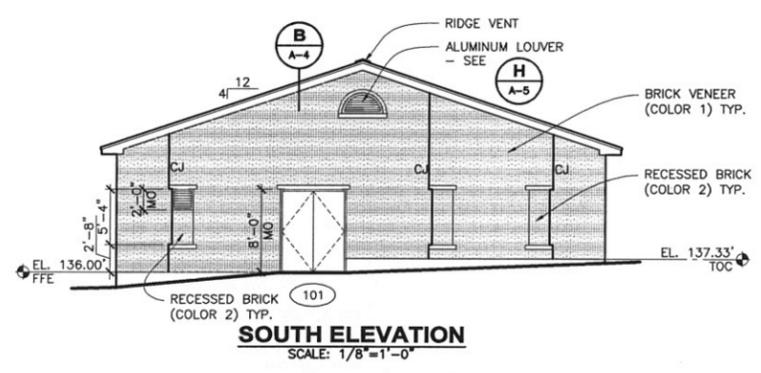
G:\DWGS\ME\AUGUSTA-GAUD\12531C-RIVERSIDE\BLOG\12531C-FD\ARC\12531C-AS-PLANELEV.DWG | Floor Plan & Exterior Elevations | 1:1 | --- | 4/22/2014 3:59:08 PM | LAB  
 LAST SAVED BY: JEFFERY BLACKMAN 4/16/2014 3:44 PM



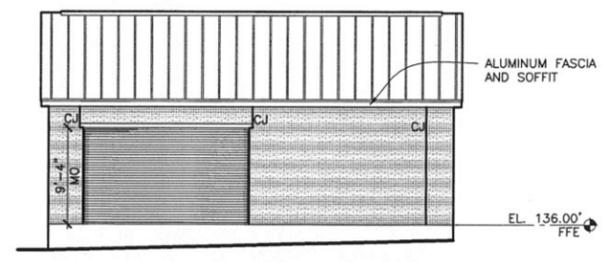
**NORTH ELEVATION**  
SCALE: 1/8"=1'-0"



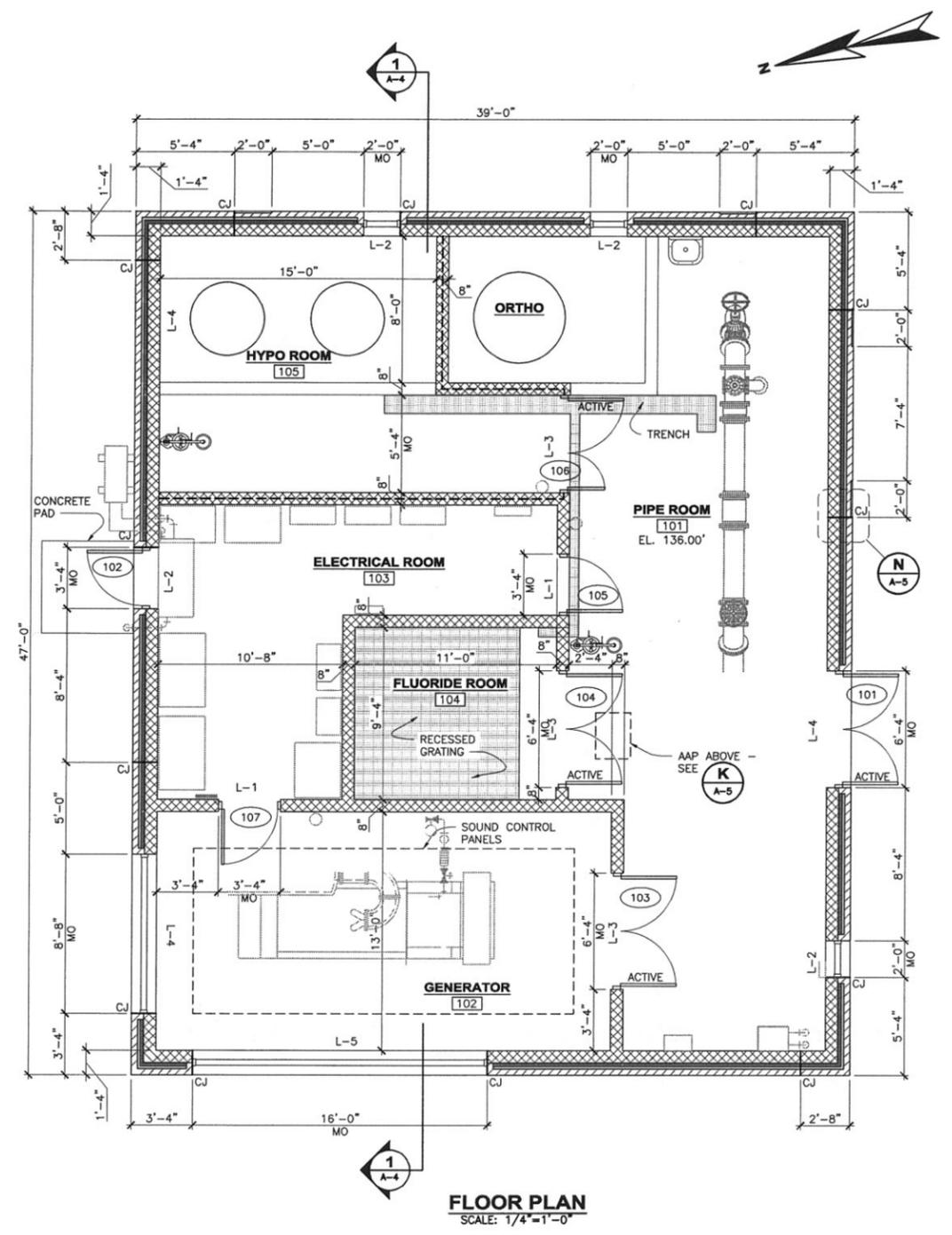
**EAST ELEVATION**  
SCALE: 1/8"=1'-0"



**SOUTH ELEVATION**  
SCALE: 1/8"=1'-0"



**WEST ELEVATION**  
SCALE: 1/8"=1'-0"



**FLOOR PLAN**  
SCALE: 1/4"=1'-0"

DESIGNED BY: LAB	DATE:
CAD COORD.: LAB	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
PROJECT NO.: 12531C	

<b>WRIGHT-PIERCE</b>	
Engineering a Better Environment	
Offices Throughout New England 888.621.8156   www.wright-pierce.com	

GREATER AUGUSTA UTILITY DISTRICT RIVERSIDE CHEMICAL BUILDING AUGUSTA, MAINE	FLOOR PLAN & EXTERIOR ELEVATIONS
---	----------------------------------

DRAWING A-2
----------------