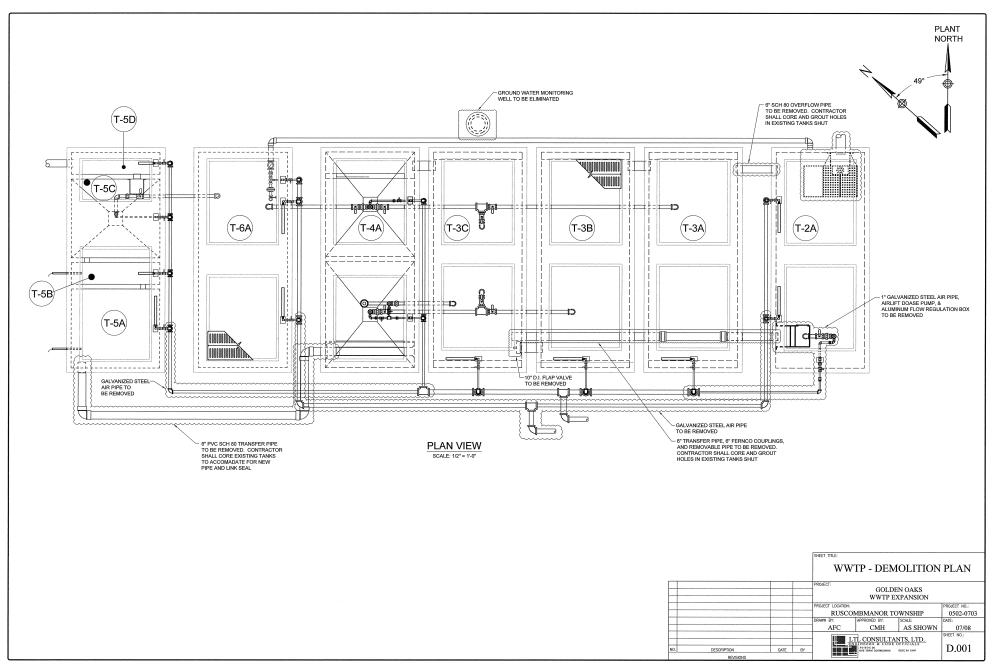
GENERAL
G.001 TITLE PAGE
G.002 PROCESS AND INSTRUMENTATION DIAGRAM
G.003 YARD PIPING AND UNIT LOCATION
G.004 HYDRAULIC PROFILE (NOT INCLUDED IN THIS SET)

STRUCTURAL
S.001 WWTP - BLOWER/CONTROL BUILDING
PLAN, SCHEDULES & SECTIONS
S.002 WWTP - BLOWER/CONTROL BUILDING
ELEVATIONS
M.003 WWTP - PLAN VIEW
M.002 WWTP - PLAN VIEW
M.003 WWTP - AERATION TANKS
M.004 WWTP - AERATION TANKS
M.005 WWTP - AERATION & CLARIFIER TANKS
M.006 WWTP - CHLORINATION & SLUDGE HOLDING TANKS
M.007 WWTP - BLOWER/CONTROL BUILDING EQUIPMENT LAYOUT (NOT INCLUDED IN THIS SET)
M.008 WWTP - MECHANICAL DETAILS (NOT INCLUDED IN THIS SET)



SOIL RESOLUTIONS

PRIOR TO FINAL STABILIZATION, SOIL TESTS SHALL BE TAKEN TO DETERMINE THE OPTIMUM LIME AND FERTILIZER RATES. THE RATES GIVEN ON THE PLAN AND NARRATIVE ARE ONLY MINIMUM GUIDELINES.

IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE AREA WILL BE DE-WATERED BY PUMPING THE GROUNDWATER INTO A "DIRTBAG, PUMPED SELT CONTROL SYSTEM".

IF WINTER GRADING IS UNAVOIDABLE, EXCAVATION SHALL ONLY TAKE PLACE WHEN THE TEMPERATURE IS ABOVE PREEZING AND THE SOIL IS DRY.

NONE OF THE SOILS PRESENT WITHIN THE PROJECT ARE HYDRIC

GENERAL NOTES

- ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO CONSTRUCT SILT FENCE
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
- SEDIMENT REMOVED FROM B&SPC CONTROLS & PACILITIES SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES

- THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, RATICLE III, WATER RESOURCES, RATICLE III, WATER RESOURCES, RATICLE III, WATER 102, RESOURCES, AUTORIOR DEPARTMENT OF THE PROFESSION CONTROL.

- THE OFFICE AND A THE OFFICE AND A STATE AN
- 4. HAY OR STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE.
- OHTH, THE STITE MAS ACRISIVED PRIAL TRAINED ATTOR THE OWNER AND DISCONTRACTOR SHALL RECOVER'S OPERATE
 AND MANNES ALT THE BEST MANNES GREEN PERSONS THE AND SHANT PRIASE SHALL FROM SHALL RECOVER SHALL PROPERLY THE ADDRESS OF THE ADDRES
- MULCH WITH MULCH CONTROL NEITING OR BROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.

- I LIMIT LAWS TRESCHE LEAVAND AND GENERAL OF THE ALL STATEMENT OF THE LEADTH OF FIFE I LIMIT LAW AND THE LEADTH OF FIFE I LIMIT LAW AND ALL STATEMENT OF FIFE I LIMIT LAW AND ALL STATEMENT OF FIFE I LIMIT LAW AND ALL STATEMENT OF THE THE ALL STATEMENT OF FIFE I LIMIT LAW AND ALL STATEMENT OF THE ALL

- AT LEAST 7 DAYS BEFORE STARTING ANY BARTIN DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTOR DIVOLVED IN THOSE ACTIVITIES, THE LAYBOUNDER, ALL APPROPRIATE MINICIPAL OPPELALS, THE EXCESSION AND SEDIMENT CONTROL ILAN REPEARE, AND THE BESIS COUNTY CONSERVATION DISTRICT OF AN ON-STEM MEETING. ALSO, AT LEAST 10 DEBOTES TRATING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTACTORS INVOLVED IN TROSE ACTIVITIES SHALL NOTIFY 1 PERMINICIPAN CALL SYSTEM ROOMOGATED AT 10-96-17-16 FOR BURGES INTELLITIES LOCATIONS.
- BUFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL FLAN OR REVISIONS TO OTHER PLANS THAT MAY AFFECT THE EFFECTIVENESS OF THE APPROVED 64S CONTROL FLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE BEESE COUNTY CONSESSATION DISTRICT.
- BEFORE DEFORM OF SOIL OR RECEIVING BORROW FOR THE STIT, THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA LIAN IN RESP. THAN ARTIVOURD IT HE RESEX COUNTY CORRESAVATION DETRECT, AND WHELL IS BEEN IMPLEMENTED AND CONSERVATION DISTRICT IN WEITHING OF ALL RECEIVING STOIL AND BORROW AREAS WHEN THEY HAVE BEEN DESIRED.
- 6) ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED OFF OF THE DRIVEWAY AS SHOWN ON THE PLAN.
 7) INSTALL COMPOST SILT SOCK AS SHOWN ON THE BISPC PLAN.
- 9) BEGIN CONSTRUCTION OF PLANT EXPANSION.
- 10) COMMENCE AND COMPLETE PERMANENT VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS THAT ARE AT FINAL GRADE.
- 10 UNON STABILIZATION OF ALL DISTURBED ABIAS, BEAVOR ESIC FACILITIES AND ASSESSMENT CONTROL TO CONTROL OF A STABILIZATION OF ALL DISTURBED ABIAS, BEAVOR ESIC FACILITIES AND ASSESSMENT CONTROL OF A STABILIZATION OF A STABIL

AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF CONTROLS MUST BE STABILIZED IMMEDIATELY.

DETURBER AREA ON WEIGHT ACTIVITIES HAVE CASED MART HE STABILIZED DAMERATELY, DURBO NON-DEBMOATRID FEM.

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FEMALANTS SEED MAXIMA AND WALL AND STREET HOUSE. THE MARKEN'S YEAR ACTIVITY SERVEY STABLE ACTIVITY.

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THE POLLOWING ACTIVITIES SHALL BE UNDERTAKEN TO ACHIEVE TEMPORARY STABILIZATION OF ALL EXPOSED AND DISTURBED SOIL. AREAS AS REQUIRED OR DIRECTED.

- LIME APPLICATION— GROUND LIMESTONE SHALL BE APPLIED TO THE LOOSENED SOIL AT A UNIFORM RATE OF 46 FOUND 1003 SQUARE FEET. THIS RATE IS IN FOUNDS OF AGRICULTURAL GRADE LIMESTONE PER 1003 SQUARE FEET. (I TONIACRE*LBRTON*1 AC43,540 5F = 46 FOUNDS FER 1003 SQUARE FEET.)
- 4) TEMPORARY SEEDING THE FOLLOWING SEED MIXTURE SHALL BE APPLIED TO THE PREPARED SOIL SURFACE BY BROADCAST SPREADERS OR HYDRAULIC APPLICATION ACCORDING TO THE FOLLOWING RATES OF APPLICATION:
- b. AFTER MECHANICAL SEEDING, SEED SHALL BE COVERED BY MEANS OF LIGHT RAKING TO A DEPTH OF ONE-QUARTER INCH OF SOIL.

a. TEMPORARY SEEDING — ANNUAL RYB GRASS SHALL BE APPLIED AT A RATE OF FOUR POUNDS PURE LIVE SEED PER 1,000 SQUARE FEET.

PERMANENT VEGETATIVE SURFACE STABILIZATION

- 1) TILLING— UPON COMPLETION OF FINISHED DRADING ACTIVITIES, SURFACE SOIL SHALL BE TILLED AND LOOSENED. TILLING MAY
 BE OMITTED IF SOIL IS SUFFICIENTLY LOOSENED FOLLOWING THE FINAL GRADING ACTIVITIES.

 CONSTRUCTION DITERACE
- 2) LIME APPLICATION GROUND LIMESTONE SHALL BE APPLIED TO THE LOOSENED SOIL AT A UNIFORM RATE OF 184 POUNDS PER 1000 SQUARE FEET. THIS RATE IS IN POUNDS OF AGRICULTURAL GRADE LIMESTONE PER 1000 SQUARE FEET.
- BASE FERTILIZER APPLICATION FERTILIZER SHALL BE APPLIED TO THE SOIL AT THE RATE ESTABLISHED BY THE SOIL TESTING AS REQUIRED TO ACCOMMODATE PROPER GROWTH OF THE SEED MIXTURE.

- MIXING GROUND LIMESTONE AND FERTILIZER SHALL BE MIXED WITH THE SOIL TO A DEPTH OF FOUR INCHES THROUGH USE OF SUITABLE EQUIPMENT.
- SEEDING SEED MIXTURE SHALL BE APPLIED TO THE PREPARED SOIL SURFACE BY BROADCAST SPREADERS OR HYDRAULIC APPLICATION:

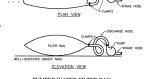
102.4(B)(S)(X) A MAINTENANCE PROGRAM WHICH PROVIDES FOR INSPECTION OF EMPS ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT, INCLUDING THE REPAIR OF THE EMPS TO ENSURE EFFECTIVE AND EFFECTIVE OF SEATION.

BEFORE DISPOSING OF SOLL OR RECEIVEND BORROW FOR THE SITE, THE OPERATOR MUST ASSURE THAT EACH STOLL OR BORROW AREA HAS AR RIGIONAL AND SHAPIT CONTROL. PLAN A PREPRIOR DIST THE LOCAL COUNTY CONSERVATION DISTRET. AND WHICH IS BEING DEPLEMBENTED AND MAINTAINED ACCUSION OF THE FOR THE REQUIRATIONS. THE REPORTATOR SHALL REMOVE FROM THE SITE, REPORTE OR DISTORS OF ALL DELIGIONS MATERIALS AND WASTES IN ACCORDANCE WITH FAMELY SOLID WASTE MANAGEMENT REGULATION AT 25 IN COOR 2011 ST 50, A 72.11. EUR (A) 402 THE 15 ST 50.

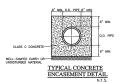
CLASS C CONCRETE

STREAM CROSSING DETAIL

√18" THICK R-4 RIP-RAP



FILTER BAG



ROCK CONSTRUCTION ENTRANCE SPECIFICATIONS 1. STONE SIZE — USE ANSHIO \$1 OR RECYCLED CONCRETE EQUIVALENT, LENGTH — AS REQUIRED, BUT NOT LESS THAN 50 FEET. HICKNESS — NOT LESS THAN EIGHT (8) INCHES, WIDTH — TWENTY (20) FEET OR TOTAL WIDTH OF ACCESS, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE WORKESS OR EGRESS OCCUR.

2. PLTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

4. MARTENANCE — THE ENTRANCE SHALL BE MANTAINED IN A COMBINION WHICH WILL PREVENT TRACKING ON FLOWING OF SEDMENT COMBINION WHICH WILL PREVENT TRACKING ON FLOWING OF SEDMENT WITH ADDITIONAL STORM, AS CONTROL SEDMENT ON HUMBRIAN WITH ADDITIONAL STORM, AS CONTROL SEDMENT AND HUMBRIAN WITH ADDITIONAL STORM, AS COMBINED AND HUMBRIAN STRUMED, ROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MIST BE REMOVED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MIST BE REMOVED.

5. WASHING — WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PROOF TO EPITRANCE ONTO PUBLIC REGISTS—OF—WAY, WHEN WASHING THE WASHING WASHIN

STABILIZED CONSTRUCTION ENTRANCE

PUMPED WATER FILTER BAG NOTES

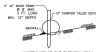
FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL, SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PATRICLES LARGER THAN 150 MICRONS.

A SURTABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROMOED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMEN OF THOSE THAT HAVE FALLED OR ARE FILLED.

3. BAGS SHALL BE LOCATED IN WELL-MEGETATED (GRASSY) AREAS AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5X. 4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE IN DATING AND SCREENING.

EXISTING 7



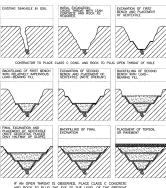
_ 8" MIN.

PROFILE

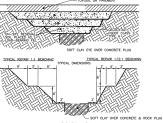
-- AASHTO #1 STONE

MAINTENANCE OF SILT FILIDATION SOCK SILT FILITATION SOCK WINST BE PLACED AT LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SEDIMENTS MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 OF THE EFFECTIVE HEIGHT OF THE SOCK, VERBY WITH ENGINEER. ANY SECTION OF FILTER SILT FILTRATION SOCK WHICH HAS BEEN DAMAGED MUST BE IMMEDIATELY REPAIRED BY PLACING A NEW SOCK ON THE UPSLOPE SIDE COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY THE ENGINEER.

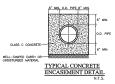
SILT FILTRATION SOCK



TYPICAL SINKHOLE REPAIR DETAILS



PUMPED WATER FILTER BAG



EROSION & SEDIMENTATION CONTROL DETAILS/NOTES

GOLDEN OAKS WWTP EXPANSION RUSCOMBMANOR TOWNSHIP
BY: APPROVED BY: SCALE: 0502-0703 CMH AS SHOWN 07/08 LTL CONSULTANTS, LTD. ES.002 PO BOX NI ONE TOWN CENTREDINE OLIV, PA 1960

RUSCOMBMANOR TOWNSHIP BERKS COUNTY, PA GOLDEN OAKS WASTEWATER TREATMENT PLANT EXPANSION

PREPARED BY:

AUGUST 2008



PROJECT LOCATION

INDEX TO DRAWINGS

SCALE: 1" = 1000 FEET Pricetown Pricetown Self-Blas Furnance Furnance Furnance

GENERAL

G.001 TITLE PAGE

G.002 PROCESS AND INSTRUMENTATION DIAGRAM

G.003 YARD PIPING AND UNIT LOCATION

G.004 HYDRAULIC PROFILE (NOT INCLUDED IN THIS SET)

STRUCTURAL

S.001 WWTP - BLOWER/CONTROL BUILDING

PLAN, SCHEDULES & SECTIONS

S.002 WWTP - BLOWER/CONTROL BUILDING

ELEVATIONS

<u>MECHANICA</u>

M.001 WWTP - PLAN VIEW

 ${\sf M.002}$ WWTP - EQUALIZATION TANKS

M.003 WWTP - AERATION TANKS

M.004 WWTP - AERATION TANKS

M.005 WWTP - AERATION & CLARIFIER TANKS

M.006 WWTP - CHLORINATION & SLUDGE HOLDING TANKS

M.007 WWTP - BLOWER/CONTROL BUILDING EQUIPMENT LAYOUT (NOT INCLUDED IN THIS SET)

M.008 WWTP - MECHANICAL DETAILS (NOT INCLUDED IN THIS SET)

DEMOLITION

D.001 WWTP - DEMOLITION PLAN

<u>-LECTRICAL</u>

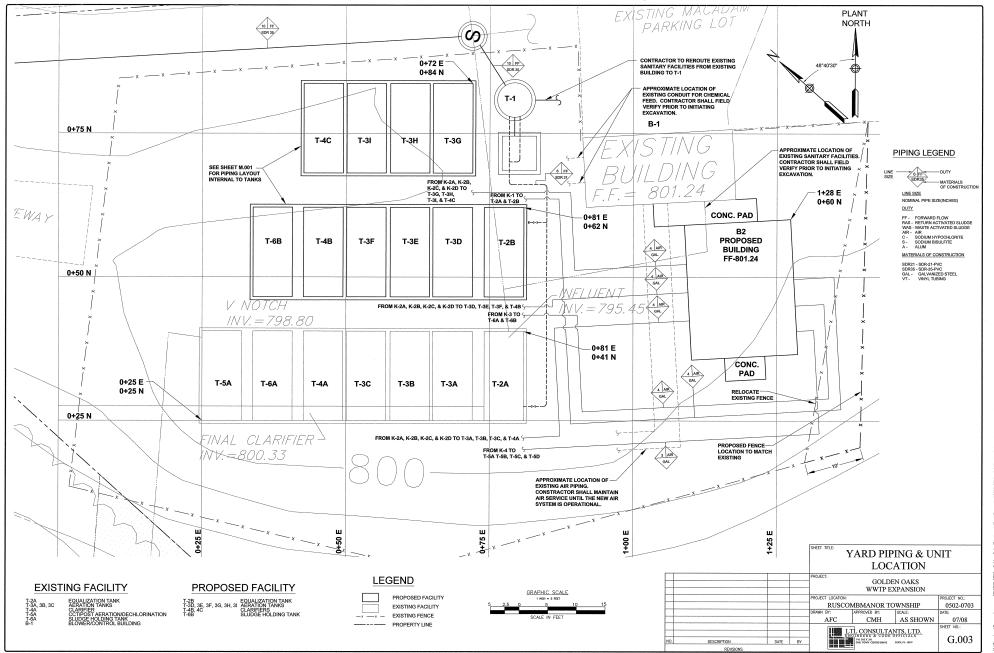
E.001 SINGLE LINE DIAGRAM (NOT INCLUDED IN THIS SET)

F&S

ES.001 WWTP - GRADING PLAN

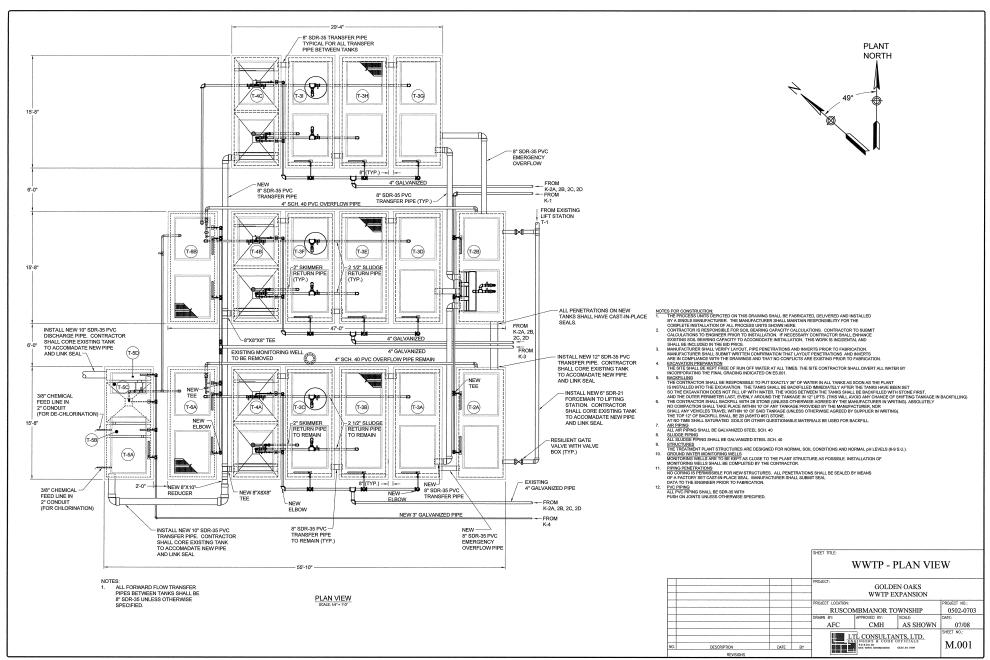
ES.002 DETAILS/NOTES

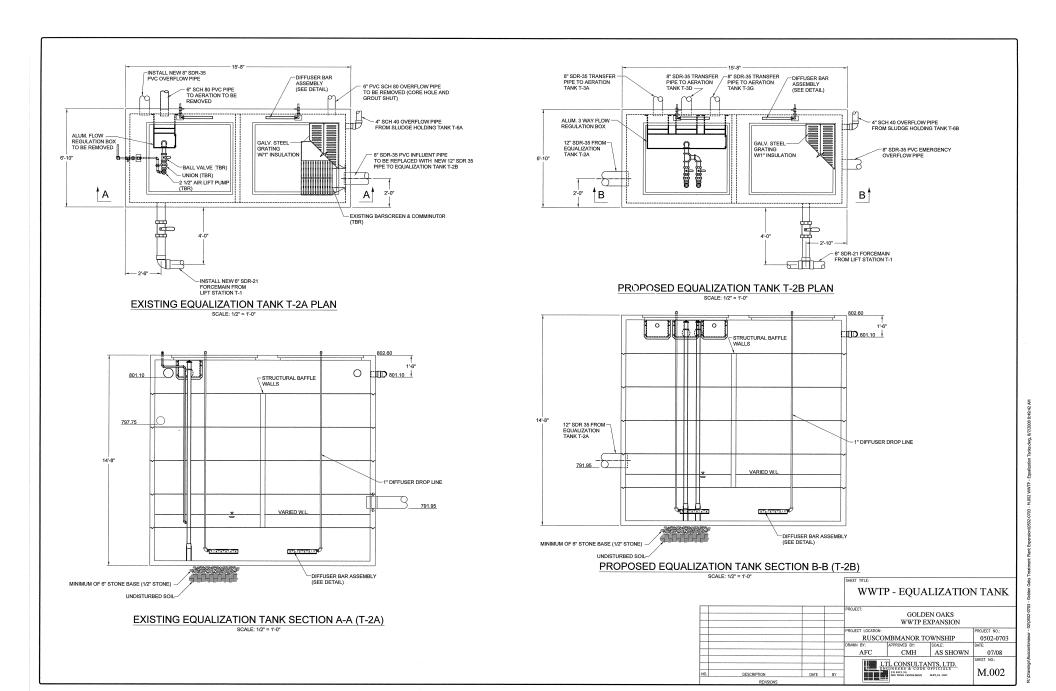
Ruscombmanor - 02\0502-0703 - Golden Oaks Treatment Plant Expansion\0502-0702 - G.001 Title Sheet.c

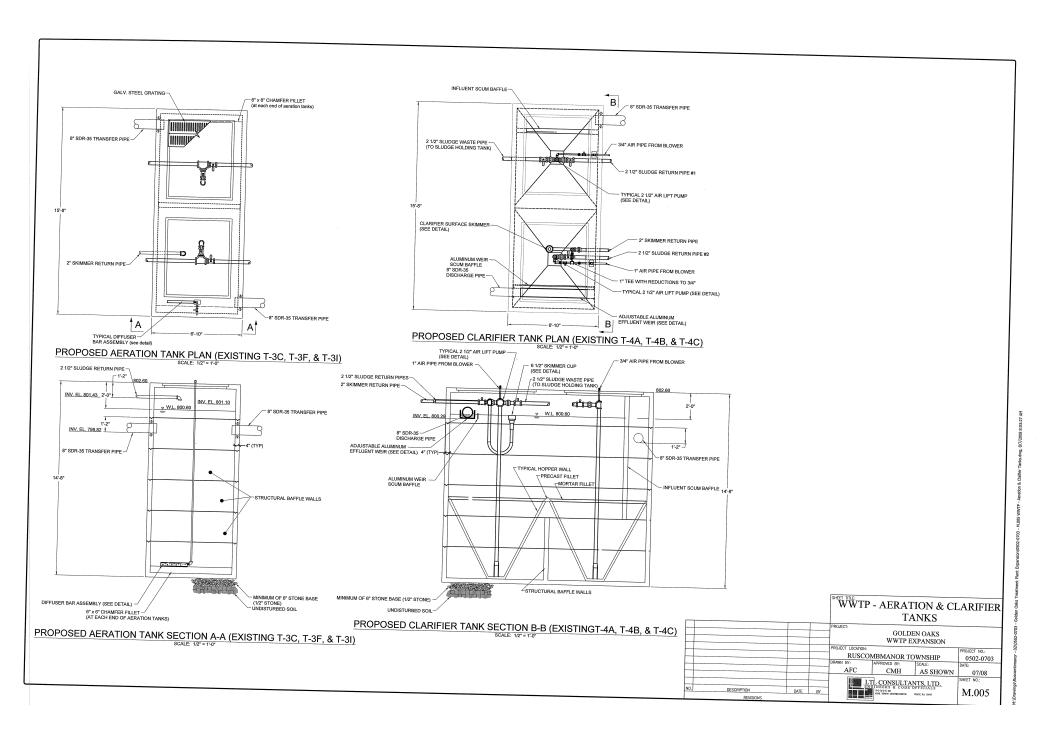


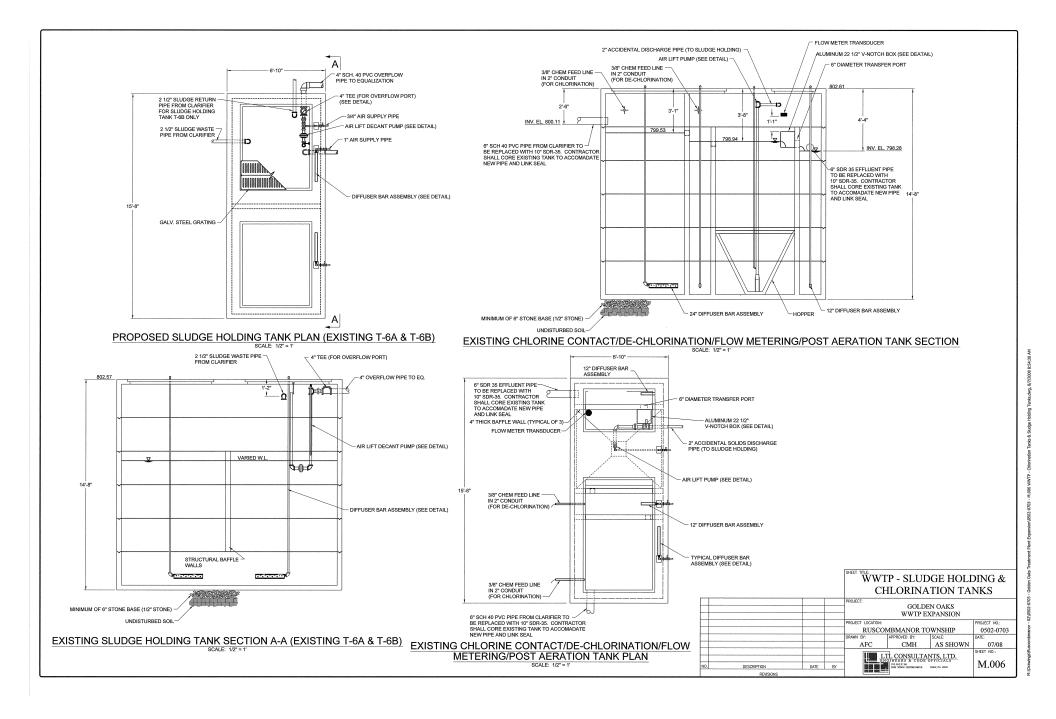
[Drawings]Ruscombmanor - 02(0502-0703 - Golden Oaks Treatment Plant Expansion)0502-0703 - G.003 - Yard Piping & Unit Lecation.dwg, 8/7/2008 8/4

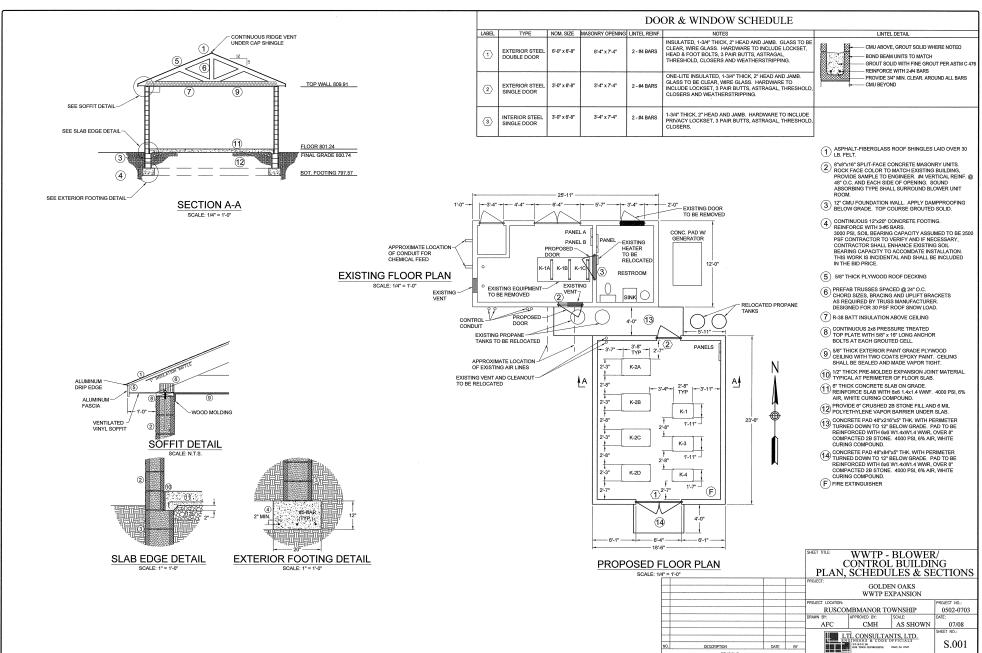




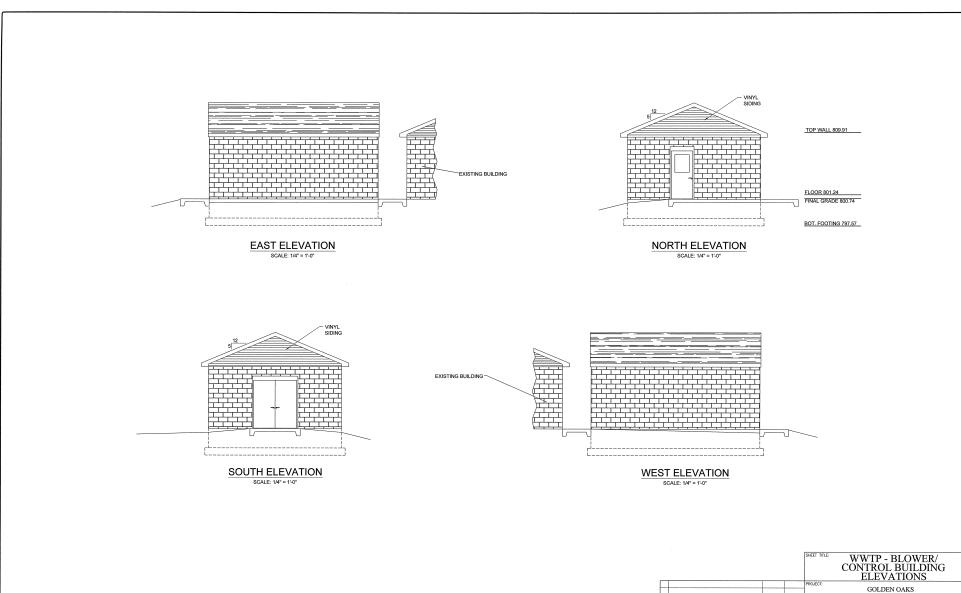








Drawings/Ruscombmanor - 02/0502-0703 - Golden Oaks Tréatment Plant Expansion(0502-0703 - 5.001 - Brower Building Plan, Sections.dwg, 8/7/2008 8-18:50 AM



DESCRIPTION

DATE BY