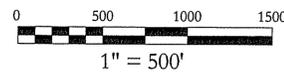


Wetland Formal Submission Residential Site Developement

Assessor's Plat 12 Lot 119
196 Stone Dam Road, Gloucester, RI



200 Foot Aerial Radius Map

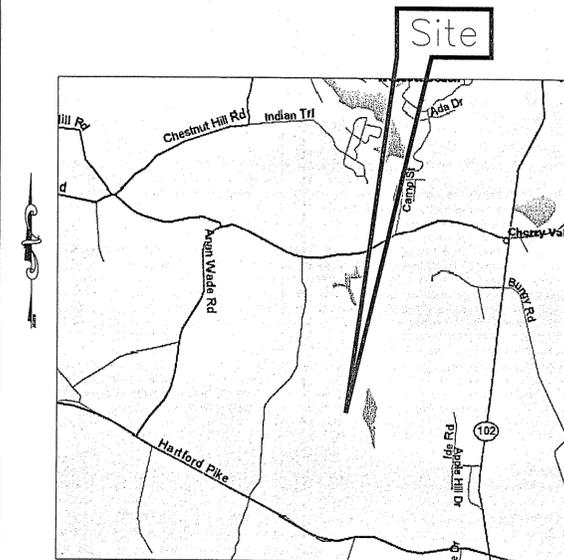


TERRASERVER-AERIAL-1995

Appendix 'B'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED Sept. 30, 2009 FILE # 05-0187
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Ernestine D. Wenczek



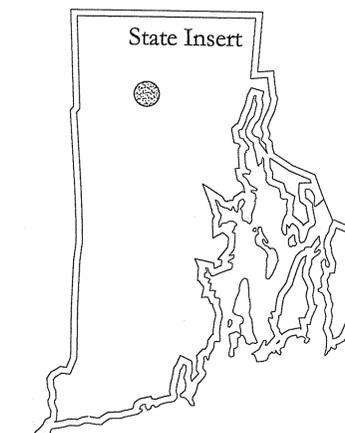
Locus Map n.t.s.

Owner(s)/Applicant:

David & Lisa Costa
196 Stone Dam Road
Gloucester, R.I.

Sheet Index:

- Sheet 1 Cover Sheet
- Sheet 2 Existing Conditions Plan
- Sheet 3 Site Plan
- Sheet 4 Plan/Profile & Notes/Details



NO.	DATE	REVISION
1	9/18/06	RIDEM COMMENTS
1	8/28/08	RIDEM COMMENTS



Thalman Engineering Co., Inc.
Site/Civil Engineers • Land Planners
600 Putnam Pike, Suite #7
Greenville, Rhode Island 02828
(401) 349-3040 • (401) 349-3041 (fax)

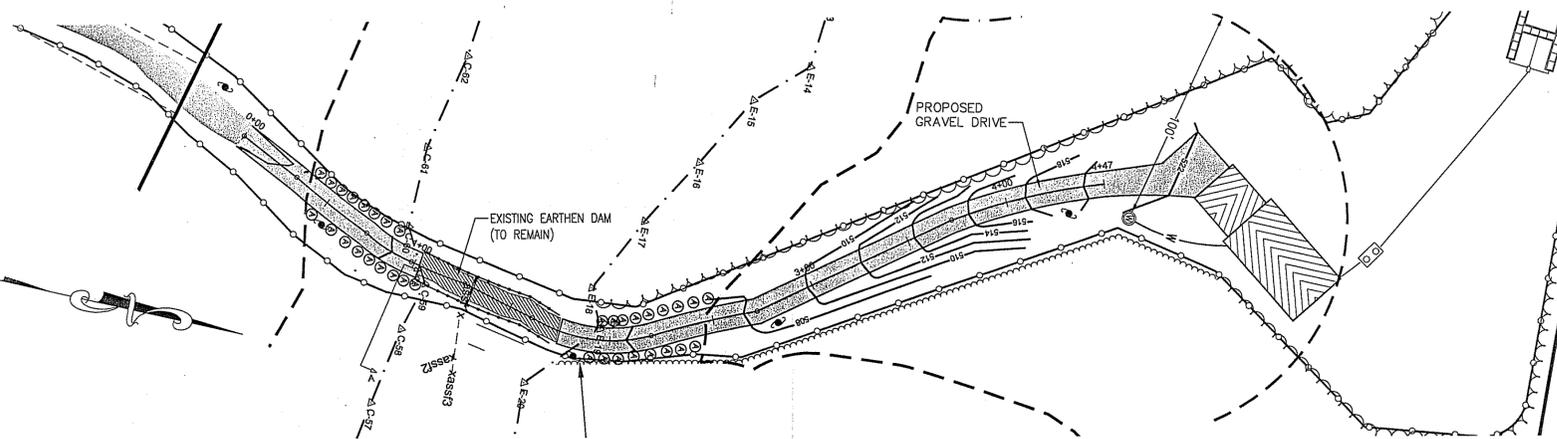
AP:12 Cover Sheet
Single Family Dwelling
196 Stone Dam Road
Gloucester
Prepared for:
David & Lisa Costa
date: June-2006
scale: As Noted

Drawn By: JEA
Checked By: BPT
Sheet
1
of 4

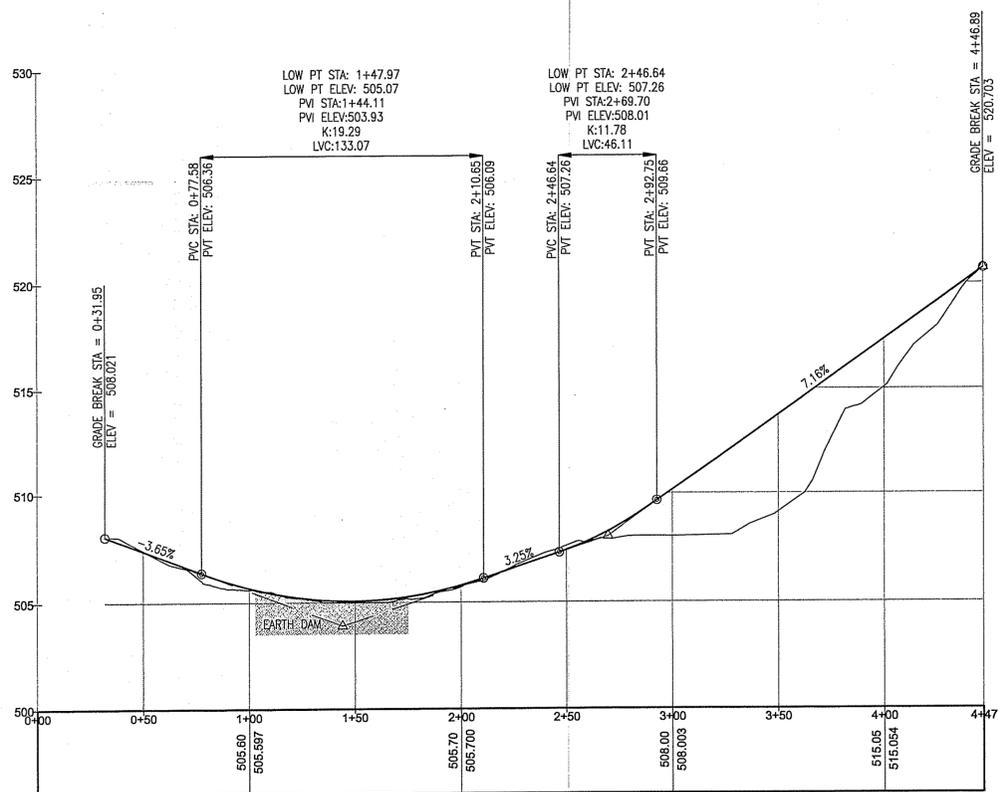
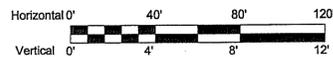
FILE NO.: 06.026

OCT 18 2008
BRIAN P. THALMANN
ENGINEER
OFFICE OF WATER RESOURCES

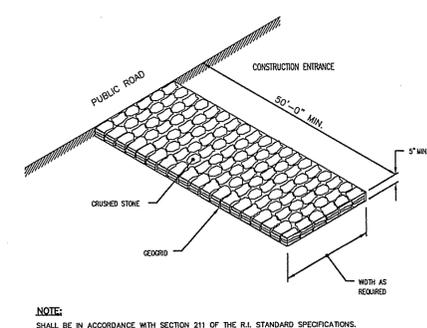
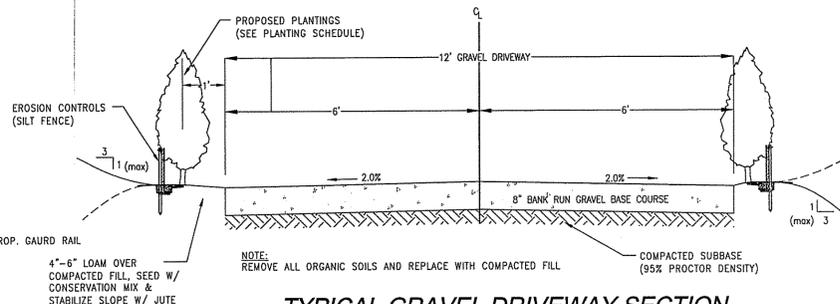
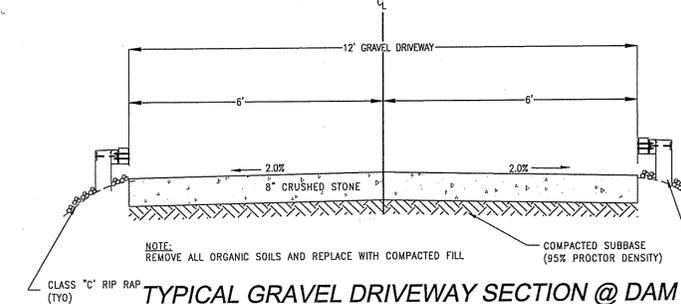
COPYRIGHT © THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND SHALL REMAIN HIS PROPERTY FOR THE OWNER. FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE. LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THE ENGINEER OR ONE OF ITS DIRECTORS.



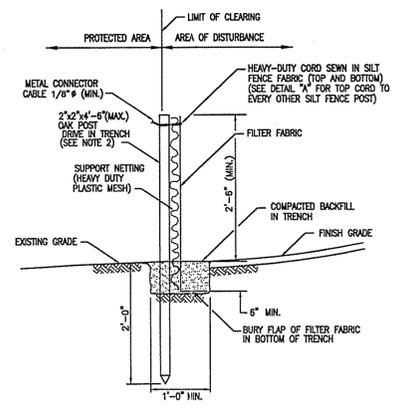
Centerline Profile



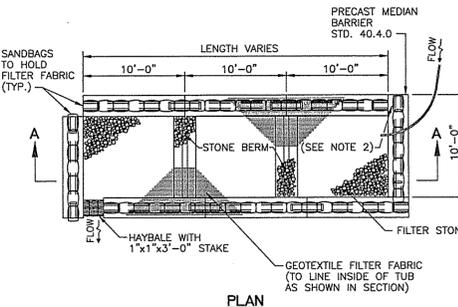
NOTE:
THE ROADWAY CONSTRUCTION WITHIN THE SWAMP AREA SHALL BE ACCOMPLISHED DURING THE LOW FLOW PERIOD (I.E. JULY 1ST TO OCT 31ST).



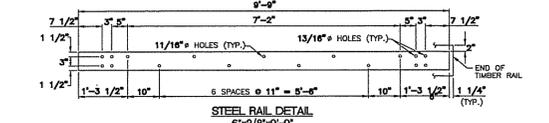
CONSTRUCTION ACCESS
N.T.S.



SILT FENCE DETAIL
N.T.S.



DEWATERING BASIN
N.T.S.



STEEL RAIL DETAIL
N.T.S.

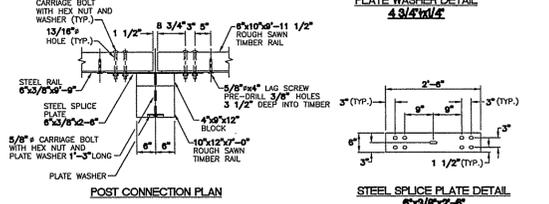
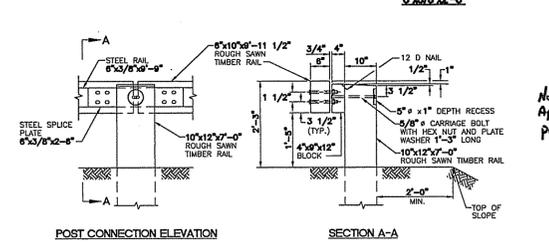


PLATE WASHER DETAIL
N.T.S.



STEEL BACKED TIMBER GUARDRAIL
N.T.S.

- MAINTENANCE NOTES:**
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDED AREAS TO SEE THAT A GOOD STAND IS MAINTAINED.
 - THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
 - ALL SILT FENCE AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
 - THE SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. CONTRACTOR SHALL REPAIR OR REPLACE THE SILT FENCE AS NECESSARY. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE BECOMES FILLED IN.
 - CONTRACTOR TO PROVIDE ADDITIONAL CAUTION IN AND AROUND THE EXISTING EARTHEN DAM AREA SO AS NOT TO INCURE ANY DISTURBANCE TO ITS FUNCTION AND STRUCTURAL INTEGRITY DURING CONSTRUCTION ACTIVITIES. ANY MAINTENANCE NEEDED TO RESTORE THE EXISTING DAM TO ITS ORIGINAL STATE SHALL BE PERFORMED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE A.S.S.F. AND ALL OTHER WETLAND FEATURES ASSOCIATED WITH IT, FROM THE BEGINNING PHASES OF CONSTRUCTION TO PROJECT COMPLETION.
 - THE CONTRACTOR SHALL INSPECT THE A.S.S.F. ON A WEEKLY BASIS AND REMOVE AND DISPOSE ALL DEBRIS, SEDIMENT, AND OTHER FOREIGN MATERIALS THAT ARE FOUND IN THE A.S.S.F.
 - FOLLOWING CONSTRUCTION ACTIVITIES, THE OWNER SHALL MAINTAIN, INSPECT AND CLEAN THE A.S.S.F. OF DEBRIS, SEDIMENT AND OTHER FOREIGN MATERIAL ON A SEM-ANNUAL BASIS, OR IMMEDIATELY UPON OBSERVATION OF ADVERSE CONDITIONS. DAMAGE TO THE A.S.S.F. SHALL BE REPAIRED TO ITS ORIGINAL STATE AT THE OWNERS EXPENSE.

- NON-STRUCTURAL MEASURES:**
- CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ACCESS ROADS, DRIVEWAY EASEMENTS AND AREAS TO BE GRADED.
 - A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO DRIVEWAY EASEMENT.
 - THE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH STONE WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY, MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
 - TOP SOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHOULD SURROUND ALL TOPSOIL STOCKPILES.
 - SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.
 - THE SILT FENCE SHALL BE MAINTAINED BY THE CONTRACTOR. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIRED OR REPLACED AS WARRANTED. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE BECOMES FILLED WITH SEDIMENT.
 - THE SILT FENCE SHALL BE CHECKED WEEKLY BY THE CONTRACTOR FOR UNDERMINING OR DETERIORATION.

- STRUCTURAL MEASURES:**
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED IMMEDIATELY AFTER GRADING. THE SEEDING SHALL EXTEND TO AT LEAST THE DESIGN TOP WIDTH AND INCLUDE ANY OTHER AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.
 - VIGOROUS VEGETATION SHALL BE MAINTAINED BY APPLYING LIME AND FERTILIZER. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEED BY THE CONTRACTOR.
 - THE GRASS SHALL BE ALLOWED TO GROW BETWEEN 2' - 10'.
 - THE SIDE SLOPES SHALL BE 3:1 OR AS CALLED FOR ON THE PROJECT PLANS.

- SOIL & EROSION NOTES:**
- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
 - ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED OR PROTECTED.
 - THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
 - THE GENERAL SEEDING DESIGN MIX FOR REGRADING AREAS SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS./AC.
CREeping RED FESCUE	75
KENTUCKY BLUE GRASS	15
COLONIAL BENT GRASS	5
PERENNIAL RYE GRASS	5
 - EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED, LIME AND FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
 - TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR A FIBER LINING (SURLAP, JUTE, FIBER GLASS NETTING, EXCISOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.
 - ALL SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
 - ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.
 - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEED AND/OR STABILIZED.
 - MAXIMUM GRADED SLOPE ON SITE TO BE 3:1 (HV).

- BRIDGE NOTES:**
- THE STRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS, AND THE ASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26 (DIVISION III).
 - THE STRUCTURE SHALL BE BACKFILLED USING CLEAN WELL-GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF ASHTO M 145 FOR SOIL CLASSIFICATIONS A-1, A-2, OR A-3. BACKFILL MUST BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 6 TO 8 INCH LIFTS. EACH LIFT SHALL BE COMPACTED TO A MINIMUM 90 PERCENT DENSITY PER ASHTO T 99.
 - CONTRACTOR SHALL DEWATER WHERE NEEDED IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATION TO A MINIMUM ELEVATION REMAINED TO PERFORM CONSTRUCTION ACTIVITIES AND/OR MAINTENANCE WHERE REQUIRED.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED Sept. 30, 2009 FILE # 05-028
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

NO.	DATE	REVISION	BY
1	9/18/06	RIEM COMMENTS	JEA
2	6/4/08	RIEM COMMENTS	NJP
3	8/28/08	PER. CHEPACHET FIRE COMMENTS	NJP



Thalmann Engineering Co., Inc.
Site/Civil Engineers • Land Planners
600 Putnam Pike, Suite #7
Greenville, Rhode Island 02828
(401) 349-3040 • (401) 349-3041 (fax)

Plan & Profile / Notes & Details
Single Family Dwelling
196 Stone Dam Road
Prepared for:
David & Lisa Costa
Rhode Island
Glocester
scale: As Noted
date: June-2006

Drawn By: JEA
Checked By: BPT
Sheet
4
of
FILE NO.: 06.028

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