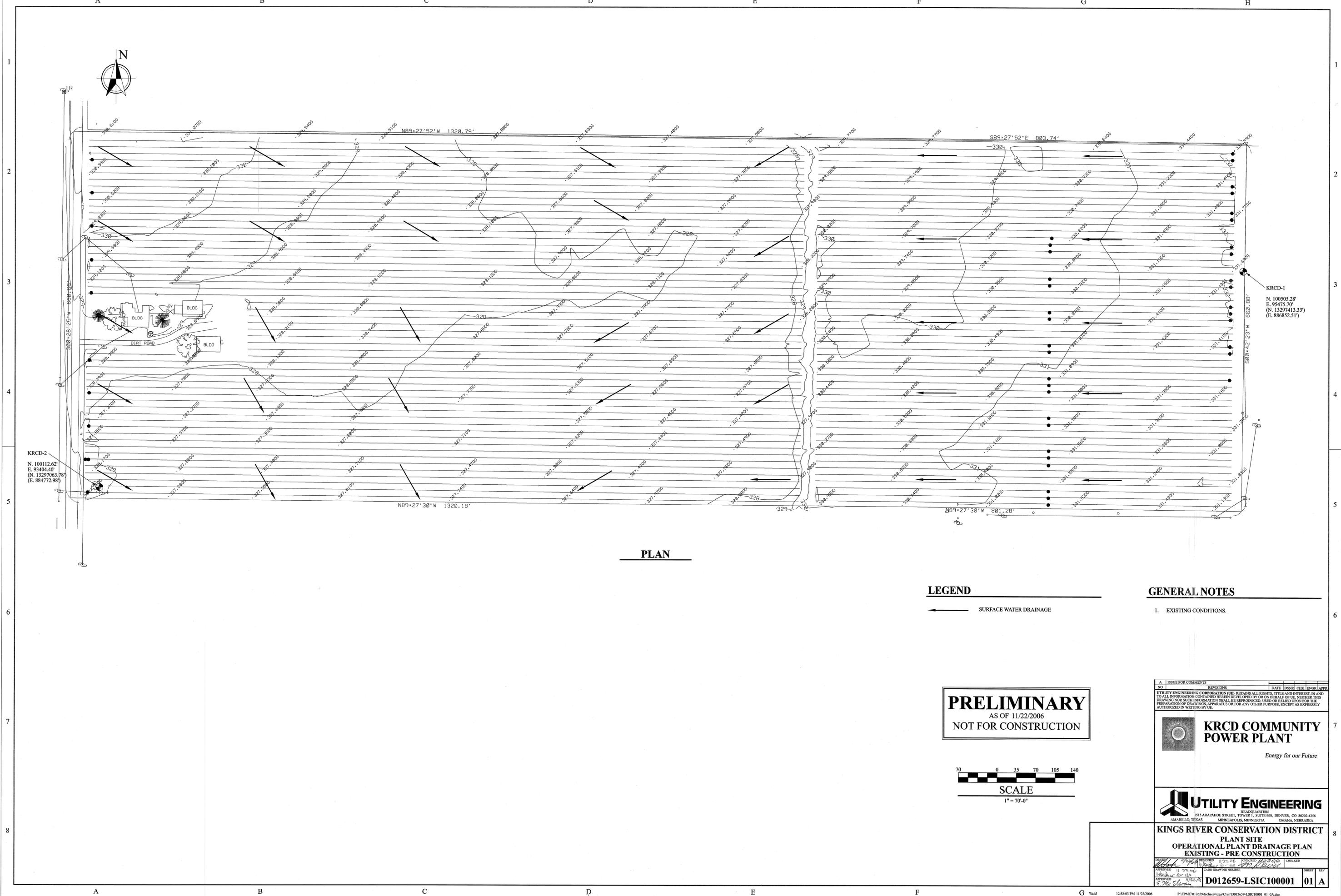


Appendix 8.5-5

Drainage Plans



PLAN

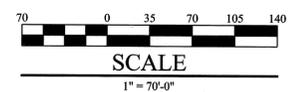
LEGEND

← SURFACE WATER DRAINAGE

GENERAL NOTES

- 1. EXISTING CONDITIONS.

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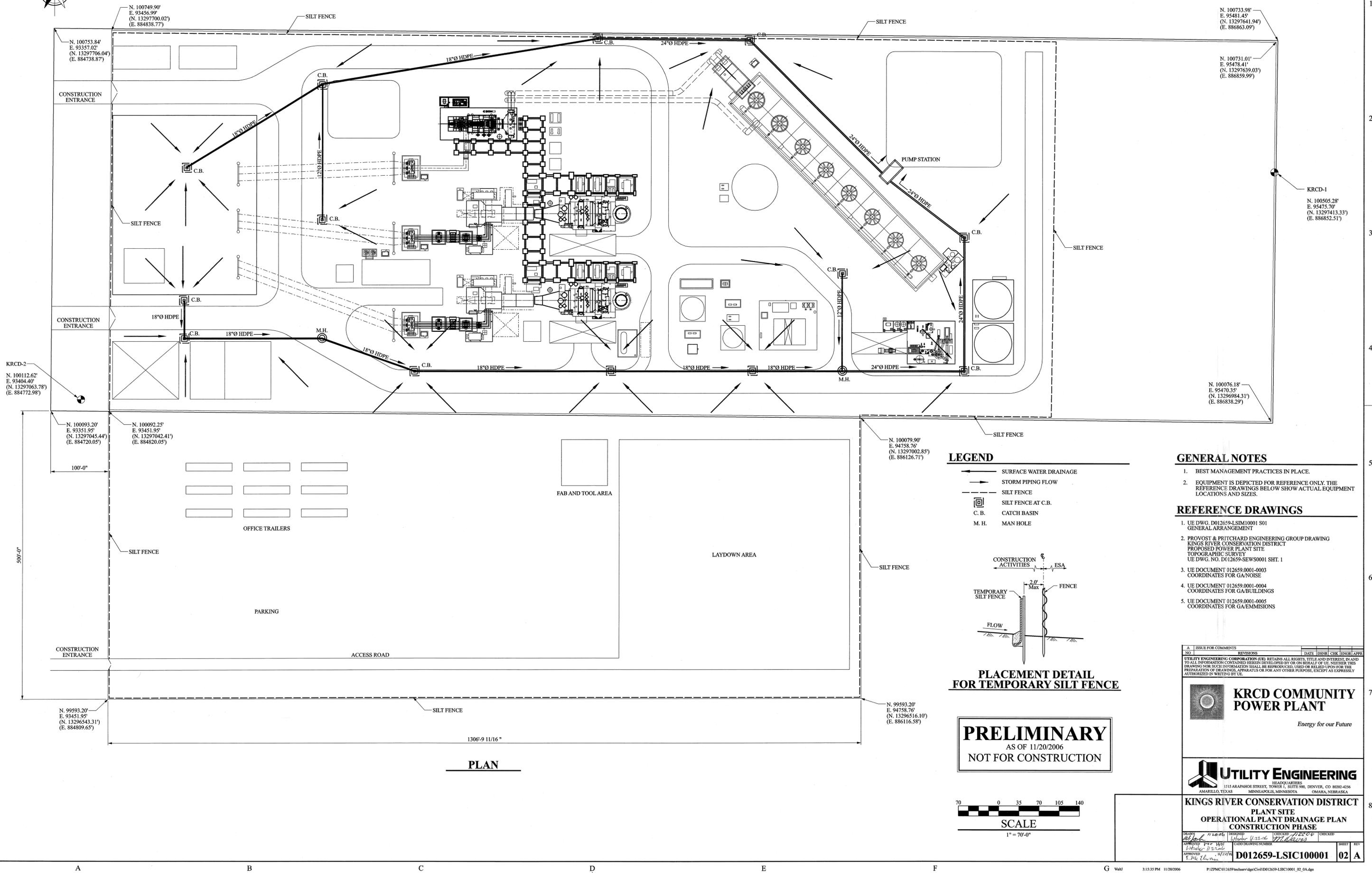
NO.	ISSUE FOR COMMENTS	DATE	ISSUED BY	ENG'G	APP'G

KRCD COMMUNITY POWER PLANT
Energy for our Future

UTILITY ENGINEERING
HEADQUARTERS
1515 ARAPAHOE STREET, TOWER 1, SUITE 900, DENVER, CO 80202-4256
AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA

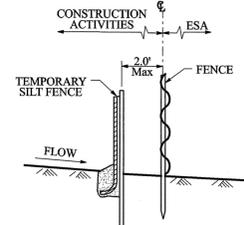
KINGS RIVER CONSERVATION DISTRICT
PLANT SITE
OPERATIONAL PLANT DRAINAGE PLAN
EXISTING - PRE CONSTRUCTION

DRAWN 11/22/06	DESIGNED 11/22/06	CHECKED 11/22/06	CAD DRAWING NUMBER D012659-LSIC100001	SHEET NO. 01	TOTAL SHEETS A
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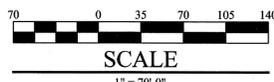
LEGEND

- SURFACE WATER DRAINAGE
- STORM PIPING FLOW
- - - SILT FENCE
- ☐ SILT FENCE AT C.B.
- C. B. CATCH BASIN
- M. H. MAN HOLE



PLACEMENT DETAIL FOR TEMPORARY SILT FENCE

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NOT FOR CONSTRUCTION



GENERAL NOTES

1. BEST MANAGEMENT PRACTICES IN PLACE.
2. EQUIPMENT IS DEPICTED FOR REFERENCE ONLY. THE REFERENCE DRAWINGS BELOW SHOW ACTUAL EQUIPMENT LOCATIONS AND SIZES.

REFERENCE DRAWINGS

1. UE DWG. D012659-LSM10001 S01 GENERAL ARRANGEMENT
2. PROVOST & PRITCHARD ENGINEERING GROUP DRAWING KINGS RIVER CONSERVATION DISTRICT PROPOSED POWER PLANT SITE TOPOGRAPHIC SURVEY UE DWG. NO. D012659-SEWS0001 SHT. 1
3. UE DOCUMENT 012659-0001-0003 COORDINATES FOR GA/NOISE
4. UE DOCUMENT 012659-0001-0004 COORDINATES FOR GA/BUILDINGS
5. UE DOCUMENT 012659-0001-0005 COORDINATES FOR GA/EMMISSIONS

NO.	ISSUE FOR COMMENTS	REVISIONS	DATE	DSNR	CHK	ENGR	APPR

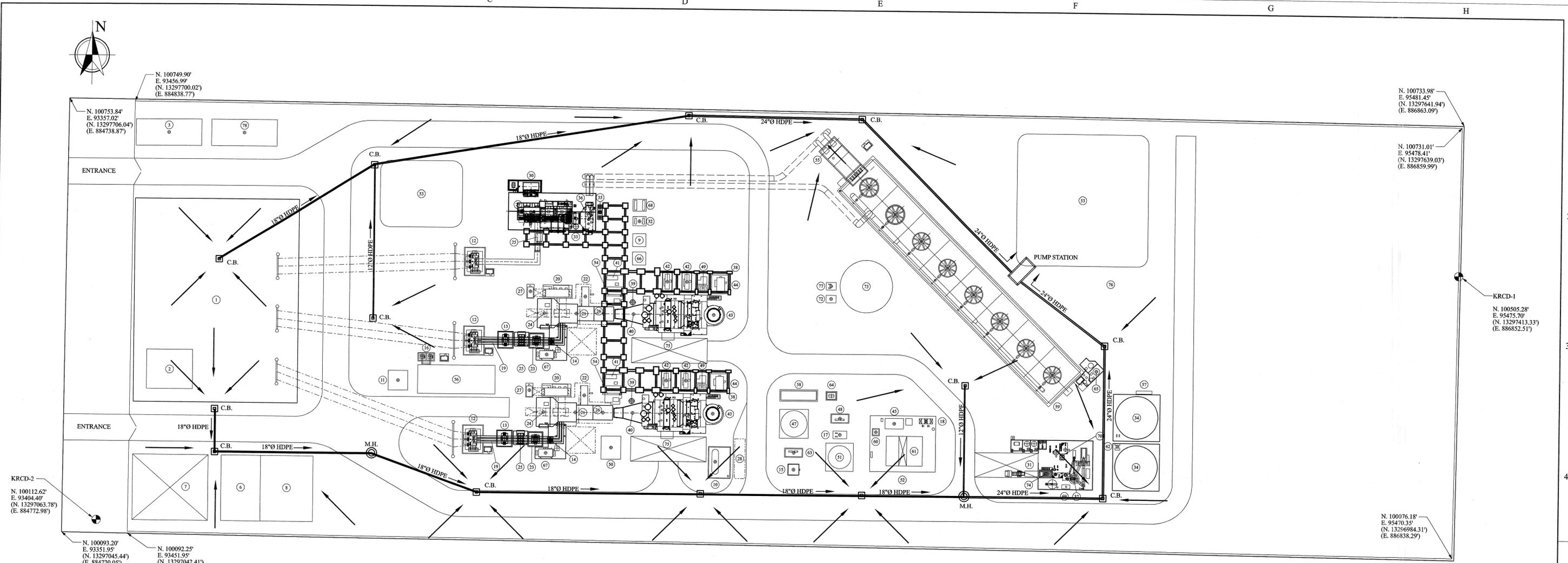
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UTILITY ENGINEERING
HEADQUARTERS
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AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA

KINGS RIVER CONSERVATION DISTRICT
PLANT SITE
OPERATIONAL PLANT DRAINAGE PLAN
CONSTRUCTION PHASE

DESIGNED 11/20/06 WJW	CHECKED 11/22/06 WJW	DATE 11/20/06	PROJECT D012659-LSIC10001	SHEET 02	REV A
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PLAN

LEGEND

- | | | | |
|---------------------------------------|--|--|--|
| 1. ELECTRICAL SWITCHYARD AREA | 21. CT GENERATORS | 41. FUEL GAS TREATMENT SKID | 61. MAKEUP WATER TREATMENT SYSTEM |
| 2. SWITCHYARD CONTROL BUILDING | 22. MECHANICAL AUXILIARIES | 42. BOILER FEED WATER PUMPS | 62. BRINE FORWARDING PUMPS |
| 3. GAS METERING STATION | 23. ISOLATION TRANSFORMER | 43. HRSG STACK | 63. SERVICE WATER PUMPS |
| 4. LEACH FIELD (IF NEEDED; NOT SHOWN) | 24. GAS TURBINE AIR INLET FILTER | 44. CEMS SHELTER | 64. ZLD 480V TRANSFORMER |
| 5. SEPTIC TANK (IF NEEDED; NOT SHOWN) | 25. GENERATOR BREAKER | 45. BOILER CHEMICAL FEED SYSTEM | 65. COOLING TOWER/CHEMICAL FEED STORAGE AREA |
| 6. ADMIN/CONTROL BUILDING | 26. COMBUSTION TURBINE (CT) | 46. STEAM SAMPLING AND ANALYSIS PANEL (NOT SHOWN) | 66. CO2 BULK STORAGE TANK |
| 7. PARKING | 27. CT WATER WASH SKID | 47. SERVICE/FIREWATER STORAGE TANK | 67. LCI/GENERATOR EXCITATION COMPARTMENT |
| 8. WAREHOUSE/MAINTENANCE BUILDING | 28. AMMONIA UNLOADING AREA | 48. FIRE PUMPS | 68. CLOSED COOLING WATER HEAT EXCHANGER |
| 9. H2 STORAGE (IF NEEDED) | 29. STEAM TURBINE (ST) | 49. HRSG RECIRCULATION PUMPS (IF NEEDED) | 69. ZERO LIQUID DISCHARGE TREATMENT AREA (ZLD) |
| 10. AMMONIA STORAGE | 30. STG LUBE OIL SKID | 50. AUXILIARY BOILER | 70. OILY WASTE SUMP |
| 11. AUXILIARY DIESEL GENERATOR | 31. SOLIDS HANDLING AREA | 51. DEMINERALIZED WATER STORAGE TANK | 71. NOT USED |
| 12. GENERATOR STEP-UP TRANSFORMER | 32. CLOSED COOLING WATER PUMPS | 52. WATER TREATMENT BUILDING | 72. CHLORINATION SKID |
| 13. UNIT AUX. TRANSFORMER | 33. STEAM DRAINS FLASH TANK | 53. RETENTION POND | 73. RECYCLE WATER HOLDING TANK |
| 14. EXCITATION TRANSFORMER | 34. BRINE HOLDING TANK | 54. FUEL GAS HEATING SKID | 74. CRYSTALLIZER |
| 15. OILY WASTE SUMP | 35. CONDENSATE PUMPS | 55. CIRCULATION WATER PUMPS | 75. SCR SKID |
| 16. 4160V/480V TRANSFORMERS | 36. STEAM CONDENSER | 56. ELECTRICAL EQUIPMENT BUILDING | 76. EXTRA LAYDOWN AREA |
| 17. DEMINERALIZED WATER PUMPS | 37. BRINE CONCENTRATOR | 57. OIL/WATER SEPARATOR | 77. RECYCLE WATER PUMP SKID |
| 18. AIR COMPRESSOR | 38. PIPE RACK | 58. ZLD/COOLING TOWER ELECTRICAL EQUIPMENT ENCLOSURE | 78. GAS COMPRESSION STATION |
| 19. ISO-PHASE BUS DUCT | 39. HRSG ATMOSPHERIC BLOWOFF TANK | 59. COOLING TOWER | 79. NOT USED |
| 20. CT ELECTRICAL AUXILIARIES | 40. HEAT RECOVERY STEAM GENERATOR (HRSG) | 60. CLEAN WASTE SUMP | 80. NOT USED |

- ← SURFACE WATER DRAINAGE
- STORM PIPING FLOW
- PROPERTY FENCE
- C.B. CATCH BASIN
- M.H. MAN HOLE

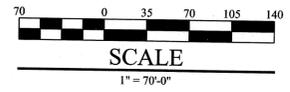
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GENERAL ARRANGEMENT
- PROVOST & FRITCHARD ENGINEERING GROUP DRAWING
KINGS RIVER CONSERVATION DISTRICT
PROPOSED POWER PLANT SITE
TOPOGRAPHIC SURVEY
UE DWG. NO. D012659-SEWS0001 SHT. 1
- UE DOCUMENT 012659-0001-0003
COORDINATES FOR GA/NOISE
- UE DOCUMENT 012659-0001-0004
COORDINATES FOR GA/BUILDINGS
- UE DOCUMENT 012659-0001-0005
COORDINATES FOR GA/EMISSIONS

PRELIMINARY
AS OF 11/20/2006
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NO.	ISSUE FOR COMMENTS	REVISIONS	DATE	ISSN	CHK	ENGR	APPR



KINGS RIVER CONSERVATION DISTRICT
PLANT SITE
OPERATIONAL PLANT DRAINAGE PLAN
POST CONSTRUCTION PHASE

DATE: 11/20/06	DESIGNED: 11/20/06	CHECKED: 11/20/06	DATE: 11/20/06	DESIGNED: 11/20/06	CHECKED: 11/20/06
PROJECT: KRCD POWER PLANT					
DRAWN BY: E. P. Schmitt					
PROJECT NUMBER: D012659-LSIC100001					
SHEET: 03 A					