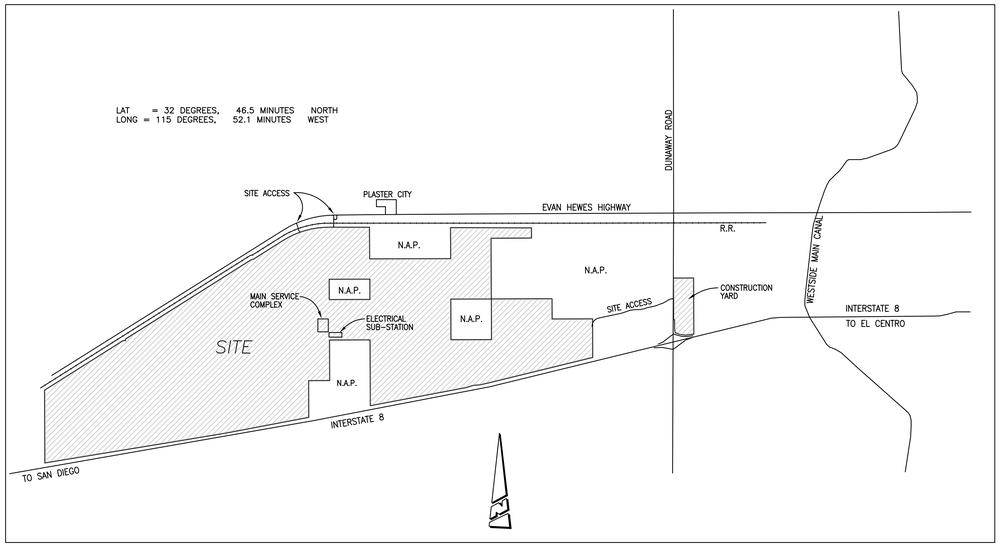
IMPERIAL COUNTY, CALIFORNIA

EROSION CONTROL PLAN

SECTIONS 12-15, 22-27 T16S R10E
AND
SECTIONS 7-9, 14-22 T16S R11E

GENERAL NOTES:

1. IN CASE OF EMERGENCY CALL:
   SITE SUPERINTENDENT –
   SES SOLAR TWO, LLC
   2920 E. CAMELBACK ROAD, SUITE 150
   PHOENIX, AZ 85016
   TEL: (602) 421–8321
   FAX: (602)
2. THE DESIGN CIVIL ENGINEER WILL SUPERVISE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS.
3. EQUIPMENT WORKERS SHALL BE MADE AVAILABLE AT THE SITE AND STOCK PILES AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
4. DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
5. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY FORECAST EXCEEDS 40%.
6. AFTER THE RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM THE CHECK BERMS, SILT FENCES, SEDIMENT BARRIERS, DESILTING BASINS, ETC.
7. GRADING AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
8. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE AND TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
9. DESILTING BASINS ARE TO BE CONSTRUCTED AS GRADING OF INDIVIDUAL GRADING AREAS ARE COMPLETED PER ROUGH GRADING PLANS.
10. THE ENGINEER OF RECORD RESERVES THE RIGHT TO REQUIRE CHANGES AND/OR MODIFICATIONS TO THIS PLAN AS DEEMED NECESSARY.
11. AREAS SHALL BE MAINTAINED IN SUCH A STATE THAT ACCESS SHALL BE MAINTAINED AT ALL TIMES (INCLUDING ACCESS TO NEIGHBORHOOD PROPERTIES).
12. NO OBSTRUCTION OR DISTURBANCE TO NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SHALL OCCUR DURING THE RAINY SEASON, UNLESS ADEQUATE TEMPORARY/PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED TO CARRY SURFACE WATER TO THE NEAREST PRACTICAL STREET, STORM DRAIN, OR NATURAL WATER COURSE.
13. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM RUNOFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELED INTO THE STORM DRAIN WHICH SERVES AS RUNOFF AREA. STORM RUNOFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT INTO ANOTHER RUNOFF AREA.
14. CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROPERTY.
15. SLOPE CONSTRUCTION SHALL BE TREATED FOR EROSION CONTROL AS THE CONSTRUCTION OF THE SLOPE PROGRESSES IN INCREMENTS OF 25' OR LESS (MEASURED VERTICALLY).
16. FILL AREAS, WHILE BEING BROUGHT UP TO GRADE DURING PERIODS OF COMPLETION PRIOR TO FINAL GRADE, SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE, BUT NOT BE LIMITED TO: TEMPORARY DOWN DRAINS (EITHER IN THE FORM OF PIPES OR PAVED DITCHES WITH PROTECTED FALL-OUT AREAS); GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON THOSE FILL AREAS WHERE EARTHWORK OPERATIONS ARE NOT IN PROGRESS.
17. TOP CUT OF BROW DITCHES WHERE REQUIRED ON THE PLANS SHALL BE CONSTRUCTED PRIOR TO EXCEEDING 12' OF CUT MEASURED VERTICALLY.
18. CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROJECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATIONS AND WHICH ARE SUBJECT TO RUNOFF DURING THE PERIOD FROM THE RAINY SEASON. THESE MEASURES MAY INCLUDE, BUT NOT BE LIMITED TO, GRADED DITCHES, BRUSH BARRIERS AND SILT FENCES. CARE SHOULD BE EXERCISED TO PRESERVE VEGETATION BEYOND LIMITS OF GRADING.
19. APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION.
20. ALL STORM DRAINS, CATCH BASINS, AND STORM WATER RUNOFF STRUCTURES WILL BE PROVIDED WITH ADEQUATE CAPABILITIES TO FILTER AND RETAIN SEDIMENT AND GRIT, OIL AND GREASE, TO PREVENT POLLUTION IN STORM WATER RUNOFF IN COMPLIANCE WITH THE IMPERIAL COUNTY BEST MANAGEMENT PRACTICES AND AS WELL AS BEST MANAGEMENT PRACTICES IDENTIFIED IN THE CURRENT REPORT OF WASTE DISCHARGE FOR IMPERIAL COUNTY PERMITTEES.



VICINITY MAP
NOT TO SCALE

EROSION CONTROL SHEET INDEX

DRAWING NO.	SHEET NO.	SHEET TITLE
S2-C0620	1	TITLE
S2-C0621	2	INDEX MAP
S2-C0622	3	DETAIL SHEET
S2-C0623	4	16S10E27A
S2-C0623	5	16S10E22C
S2-C0623	6	16S10E22A
S2-C0623	7	16S10E27B
S2-C0623	8	16S10E22D
S2-C0623	9	16S10E22B
S2-C0623	10	16S10E26A
S2-C0623	11	16S10E23C
S2-C0623	12	16S10E23A
S2-C0623	13	16S10E14C
S2-C0623	14	16S10E26B
S2-C0623	15	16S10E23D
S2-C0623	16	16S10E23B
S2-C0623	17	16S10E14D
S2-C0623	18	16S10E14B
S2-C0623	19	16S10E25A
S2-C0623	20	16S10E24C
S2-C0623	21	16S10E24A
S2-C0623	22	16S10E13C
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S2-C0623	25	16S10E24D
S2-C0623	26	16S10E24B
S2-C0623	27	16S10E13D
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EROSION CONTROL SHEET INDEX

DRAWING NO.	SHEET NO.	SHEET TITLE
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S2-C0623	33	16S11E18A
S2-C0623	34	16S11E07C
S2-C0623	35	16S11E18D
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S2-C0623	37	16S11E07D
S2-C0623	38	16S11E20C
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S2-C0623	40	16S11E17C
S2-C0623	41	16S11E17A
S2-C0623	42	16S11E20D
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S2-C0623	44	16S11E17D
S2-C0623	45	16S11E17B
S2-C0623	46	16S11E21C
S2-C0623	47	16S11E21A
S2-C0623	48	16S11E16A
S2-C0623	49	16S11E09C
S2-C0623	50	16S11E21B
S2-C0623	51	16S11E16D
S2-C0623	52	16S11E09D
S2-C0623	53	16S11E22A
S2-C0623	54	16S11E15C
S2-C0623	55	16S11E22B
S2-C0623	56	16S11E15D
S2-C0623	57	16S11E14C
S2-C0623	58	16S11E14D
S2-C0623	59	16S11E14B

DEVELOPER:

SES SOLAR TWO, LLC
2920 E. CAMELBACK ROAD, SUITE 150
PHOENIX, AZ 85016
TEL: (602) 421–8321
FAX: (602)

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

STANTEC CONSULTING INC.
3105 EAST GUASTI ROAD
ONTARIO, CA 91761
TEL: (909) 390–8880
STANTEC.COM

REGISTERED PROFESSIONAL ENGINEER
NED J. ARAUJO
No. 057835
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

DATE

NED J. ARAUJO P.E.
SR. PROJECT MANAGER
C57835
EXPIRATION DATE: 6–30–2010

RECORD PLAN DECLARATION OF RESPONSIBLE CHARGE OF RECORD ENGINEER (FOR AS BUILTS)

I HEREBY DECLARE THAT AS THE ENGINEER OF RESPONSIBLE CHARGE OF THE RECORD PLANS FOR THIS PROJECT, I HAVE REVIEWED THE NOTED, AND COUNTY APPROVED CONSTRUCTION CHANGES, I HAVE OBSERVED THE COMPLETED CONSTRUCTION OF THE ENGINEERING WORK AS SHOWN ON THE RECORD PLANS, AND REVIEWED THE CONTRACTOR'S RECORD OF ANY CHANGES MADE DURING CONSTRUCTION, BASED ON MY OBSERVATION AND REVIEW, IT IS MY OPINION THAT THE COMPLETED CONSTRUCTION IS IN SUBSTANTIAL CONFORMANCE WITH THE RECORD PLANS.

I CERTIFY THAT ALL CHANGES AND/OR ADDITIONS MADE DURING CONSTRUCTION, AS DOCUMENTED BY THE CONTRACTOR'S RECORDS AND PROVIDED TO ME, HAVE BEEN INCORPORATED INTO THE RECORD PLANS.

DATE

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
TITLE

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0620 | SHT: 1 | REV: B

PROJECT: 200002680 | CAD FILE: EC-TITLE-01.dwg

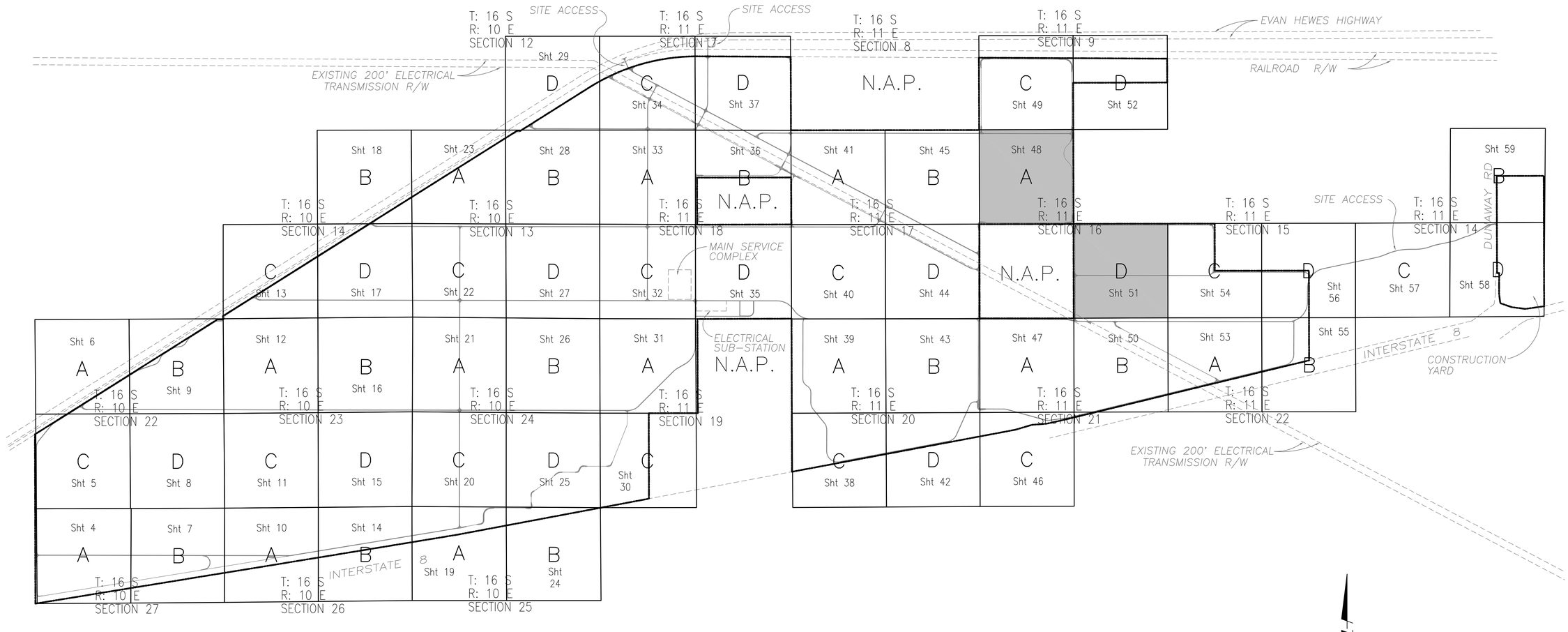
STANTEC CONSULTING INC.
2386 E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.1305 www.stantec.com

Stantec

SCALE: NONE | DATE: 10/17/08
DRN: TB/CT/RB | DES: PK/SD | APP: NJA | CHK: PK/NJA | DATE: 10/17/08

NO.	DATE	BY	APP

DRAWING: x:\2015\active\201502680\1\civil\design\drawing\plan_sets\erosion_control\ec-title-01.dwg PLOTTED: 2/4/2009 1:34 AM BY: Brees, Ron



NOTE:

SHEETS 49 AND 52 IS PRIVATELY OWNED PROPERTY AND ALL OTHER PROPERTY/SHEETS IS BLM LANDS.

LEGEND

	PRIVATELY OWNED PROPERTY
D	QUARTER SECTION
Sht 83	DRAWNING SHEET SET NO.
T: 16 S	TOWNSHIP
R: 10 E	RANGE
SECTION 24	SECTION
	PROPERTY LINE
N.A.P.	NOT A PART

GRAPHIC SCALE

1200 0 600 1200 2400 4800

(IN FEET)
1 inch = 1200 ft.

PRELIMINARY

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
INDEX MAP

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0621 | SHT. 2 | REV. B

PROJECT: 20000268801 | CAD FILE: EC-INDEX-01.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 1200' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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Soil Binders EC-5

Targeted Constituents
Sediment

Potential Alternatives
EC-3 Hydraulic Mulch
EC4 Hydroseeding
EC-6 Straw Mulch
EC-7 Geotextiles and Mats
EC-8 Wood Mulching

Description and Purpose
Soil binders consist of applying and maintaining a soil stabilizer to exposed soil surfaces. Soil binders are materials applied to the soil surface to temporarily prevent water induced erosion of exposed soils on construction sites. Soil binders also prevent wind erosion.

Suitable Applications
Soil binders are typically applied to disturbed areas requiring short term temporary protection. Because soil binders can often be incorporated into the work, they are a good alternative to mulches in areas where grading activities will soon resume. Soil binders are also suitable for use on stockpiles.

Limitations
- *Soil binders are temporary in nature and may need reapplication.*
- *Soil binders require a minimum curing time until fully effective, as prescribed by the manufacturer. Curing time may be 24 hours or longer. Soil binders may need reapplication after a storm event.*
- *Soil binders will generally experience spot failures during heavy rainfall events. If runoff penetrates the soil at the top of a slope treated with a soil binder, it is likely that the runoff will undercut the stabilized soil layer and discharge at a point further down slope.*
- *Soil binders do not hold up to pedestrian or vehicular traffic across treated areas.*
- *Soil binders may not penetrate soil surfaces made up primarily of silt and clay, particularly when compacted.*
- *Some soil binders may not perform well with low relative humidity. Under rainy conditions, some agents may become slippery or leach out of the soil.*
- *Soil binders may not cure if low temperatures occur within 24 hours of application.*
- *The water quality impacts of soil binders are relatively unknown and some may have water quality impacts due to their chemical makeup.*
- *A sampling and analysis plan must be incorporated into the SWPPP as soil binders could be a source of non-visible pollutants.*

Implementation *General Considerations*
- *Regional soil types will dictate appropriate soil binders to be used.*
- *A soil binder must be environmentally benign (non-toxic to plant and animal life), easy to apply, easy to maintain, economical, and should not stain paved or painted surfaces. Soil binders should not pollute stormwater.*
- *Some soil binders may not be compatible with existing vegetation.*
- *Performance of soil binders depends on temperature, humidity, and traffic across treated areas.*
- *Avoid over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.*

Selecting a Soil Binder
Properties of common soil binders used for erosion control are provided on Table 1 at the end of this BMP. Use Table 1 to select an appropriate soil binder. Refer to WE-1, Wind Erosion Control, for dust control soil binders.
Factors to consider when selecting a soil binder include the following:
- *Suitability to situation - Consider where the soil binder will be applied, if it needs a high resistance to leaching or abrasion, and whether it needs to be compatible with any existing vegetation. Determine the length of time soil stabilization will be needed, and if the soil binder will be placed in an area where it will degrade rapidly. In general, slope steepness is not a discriminating factor for the listed soil binders.*
- *Soil types and surface materials - Fines and moisture content are key properties of surface materials. Consider a soil binder's ability to penetrate, likelihood of leaching, and ability to form a surface crust on the surface materials.*
- *Frequency of application - The frequency of application can be affected by subgrade conditions, surface type, climate, and maintenance schedule. Frequent applications could lead to high costs. Application frequency may be minimized if the soil binder has good penetration, low evaporation, and good longevity. Consider also that frequent application will require frequent equipment clean up.*

Plant-Material Based (Short Lived) Binders
Guar: Guar is a non-toxic, biodegradable, natural galactomannan based hydrocolloid treated with dispersant agents for easy field mixing. It should be mixed with water at the rate of 11 to 15 lb per 1,000 gallons. Recommended minimum application rates are as follows:

Application Rates for Guar Soil Stabilizer

Slope (H:V):	Flat	4:1	3:1	2:1	1:1
lb/ acre:	40	45	50	60	70

Psyllium: Psyllium is composed of the finely ground muciloid coating of plantago seeds that is applied as a dry powder or in a wet slurry to the surface of the soil. It dries to form a firm but rewettable membrane that binds soil particles together but permits germination and growth of seed. Psyllium requires 12 to 18 hours drying time. Application rates should be from 80 to 200 lb/acre, with enough water in solution to allow for a uniform slurry flow.

Starch: Starch is non-ionic, cold water soluble (pre-gelatinized) granular cornstarch. The material is mixed with water and applied at the rate of 150 lb/acre. Approximate drying time is 9 to 12 hours.

Plant-Material Based (Long Lived) Binders
Pitch and Rosin Emulsion: Generally, a non-ionic pitch and rosin emulsion has a minimum solids content of 48%. The rosin should be a minimum of 26% of the total solids content. The soil stabilizer should be non-corrosive, water dilutable emulsion that upon application cures to a water insoluble binding and cementing agent. For soil erosion control applications, the emulsion is diluted and should be applied as follows:

- *For clayey soil: 5 parts water to 1 part emulsion*
- *For sandy soil: 10 parts water to 1 part emulsion*

Application can be by water truck or hydraulic seeder with the emulsion and product mixture applied at the rate specified by the manufacturer.

Polymeric Emulsion Blend Binders
Acrylic Copolymers and Polymers: Polymeric soil stabilizers should consist of a liquid or solid polymer or copolymer with an acrylic base that contains a minimum of 55% solids. The polymeric compound should be handled and mixed in a manner that will not cause foaming or should contain an anti-foaming agent. The polymeric emulsion should not exceed its shelf life or expiration date; manufacturers should provide the expiration date. Polymeric soil stabilizer should be readily miscible in water, non-injurious to seed or animal life, non-flammable, should provide surface soil stabilization for various soil types without totally inhibiting water infiltration, and should not re-emulsify when cured. The applied compound should air cure within a maximum of 36 to 48 hours. Liquid copolymer should be diluted at a rate of 10 parts water to 1 part polymer and the mixture applied to soil at a rate of 1,175 gallons/acre.

Liquid Polymers of Methaciylates and Acrylates: This material consists of a tackifier/sealer that is a liquid polymer of methacrylates and acrylates. It is an aqueous 100% acrylic emulsion blend of 40% solids by volume that is free from styrene, acetate, vinyl, ethoxylated surfactants or silicates. For soil stabilization applications, it is diluted with water in accordance with manufacturer's recommendations, and applied with a hydraulic seeder at the rate of 20 gallons/acre. Drying time is 12 to 18 hours after application.

Copolymers of Sodium Acrylates and Acrylamides: These materials are non-toxic, dry powders that are copolymers of sodium acrylate and acrylamide. They are mixed with water and applied to the soil surface for erosion control at rates that are determined by slope gradient:

Slope Gradient (H:V) lb/acre

Flat to 5:1	3-0 - 5-0
5:1 to 3:1	5.0 -10.0
2:2 to 1:1	1O.O - 20.0

Poly-Acrylamide and Copolymer of Acrylamide: Linear copolymer polyacrylamide is packaged as a dry flowable solid. When used as a stand alone stabilizer, it is diluted at a rate of nlb/1,000 gal of water and applied at the rate of 5.0 lb/acre.

Hydro-Colloid Polymers: Hydro-Colloid Polymers are various combinations of dry flowable poly-acrylamides, copolymers and hydro-colloid polymers that are mixed with water and applied to the soil surface at rates of 55 to 60 lb/acre. Drying times are o to 4 hours.

Cementitious-Based Binders
Gypsum: This is a formulated gypsum based product that readily mixes with water and mulch to form a thin protective crust on the soil surface. It is composed of high purity gypsum that is ground, calcined and processed into calcium sulfate hemihydrate with a minimum purity of 86%. It is mixed in a hydraulic seeder and applied at rates 4,000 to 12,000 lb/acre. Drying time is 4 to 8 hours.

Applying Soil Binders
After selecting an appropriate soil binder, the untreated soil surface must be prepared before applying the soil binder. The untreated soil surface must contain sufficient moisture to assist the agent in achieving uniform distribution. In general, the following steps should be followed:

- *Follow manufacturer's written recommendations for application rates, pre-wetting of application area, and cleaning of equipment after use.*
- *Prior to application, roughen embankment and fill areas.*
- *Consider the drying time for the selected soil binder and apply with sufficient time before anticipated rainfall. Soil binders should not be applied during or immediately before rainfall.*
- *Avoid over spray onto roads, sidewalks, drainage channels, sound walls, existing vegetation, etc.*
- *Soil binders should not be applied to frozen soil, areas with standing water, under freezing or rainy conditions, or when the temperature is below 40°F during the curing period.*
- *More than one treatment is often necessary, although the second treatment may be diluted or have a lower application rate.*
- *Generally, soil binders require a minimum curing time of 24 hours before they are fully effective. Refer to manufacturer's instructions for specific cure time.*
- *For liquid agents:*
  - *Crown or slope ground to avoid ponding.*
  - *Uniformly pre-wet ground at 0.03 to 0.3 gal/yd2 or according to manufacturer's recommendations.*
  - *Apply solution under pressure. Overlap solution 6 to 12 in.*
  - *Allow treated area to cure for the time recommended by the manufacturer; typically at least 24 hours.*
  - *Apply second treatment before first treatment becomes ineffective, using 50% application rate.*

  In low humidities, reactivate chemicals by re-wetting with water at 0.1 to 0.2 gal/yd2.

Costs
Costs vary according to the soil stabilizer selected for implementation. The following are approximate costs:

Soil Binder	Cost per Acre
Plant-Material Based (Short Lived) Binders	$400
Plant-Material Based (Long Lived) Binders	$1,200
Polymeric Emulsion Blend Binders	$400 to (1)
Cementitious-Based Binders	$800

(1) $1,200 for Acrylic polymers and copolymers
Source: Caltrans Guidance for Soil Stabilization for Temporary Slopes, Nov. 1999

Inspection and Maintenance
- *Inspect BMPs prior to forecast rain, daily during extended rain events, after rain events, weekly during the rainy season, and at two-week intervals during the non-rainy season.*
- *Areas where erosion is evident shall be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.*
- *Reapply the selected soil binder as needed to maintain effectiveness.*

References

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Sedimentation and Erosion Control, An Inventory of Current Practices Draft, US EPA, April 1990.

Stormwater Quality Handbooks Constmction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Guidance Document: Soil Stabilization for Temporaiy Slopes, State of California Department of Transportation (Caltrans), November 1999.

Stonnwater Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92005; USEPA, April 1992.

Table 1 Properties of Soil Binders for Erosion Control

Evaluation Criteria	Binder Type: Plant Material Based (Short Lived)	Plant Material Based (Long Lived)	Polymeric Emulsion Blends	Cementitious-Based Binders
Relative Cost	Low	Low	Low	Low
Resistance to Leaching	High	High	Low to Moderate	Moderate
Resistance to Abrasion	Moderate	Low	Moderate to High	Moderate to High
Longevity	Short to Medium	Medium	Medium to Long	Medium
Minimum Curing Time before Rain	9 to 18 hours	19 to 24 hours	0 to 24 hours	4 to 8 hours
Compatibility with Existing Vegetation	Good	Poor	Poor	Poor
Mode of Degradation	Biodegradable	Biodegradable	Photodegradable/ Chemically Degradable	Photodegradable/ Chemically Degradable
Labor Intensive	No	No	No	No
Specialized Application Equipment	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher
Liquid/Powder	Powder	Liquid	Liquid/Powder	Powder
Surface Crusting	Yes, but dissolves on rewetting	Yes	Yes, but dissolves on rewetting	Yes
Clean Up	Water	Water	Water	Water
Erosion Control Application Rate	Varies (1)	Varies (1)	Varies (1)	4,000 to 12,000 lbs/acre

(1) See Implementation for specific rates.

SAND BAG BARRIER
NOT TO SCALE

TYPICAL FIBER ROLL INSTALLATION

ENTRENCHMENT DETAIL

FIBER ROLLS
NOT TO SCALE

CALIFORNIA STORMWATER BMP HANDBOOK

END DETAIL

PROFILE

SECTION B-B

SANDBAG CROSS BARRIER

PLAN

LEGEND
DIRECTION OF FLOW

NOTE
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/2 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 500'.
2. THE END OF THE BARRIER SHALL BE TURNED UP SLOPE.
3. DIMENSIONS MAY VARY TO FIT FIELD CONDITION.
4. STAKE DIMENTIONS ARE NOMINAL.
5. PLACE STRAW BALES TIGHTLY TOGETHER
6. TAMP EMBEDMENT SPOIL AGAINST SIDES OF INSTALLED BALES.
7. DRIVE ANGLED WOOD STAKE BEFORE VERTICAL STAKE TO ENSURE TIGHT ABUTMENT TO ADJACENT BALE
8. SANDBAG CROSS BARRIERS SHALL BE A MIN OF 1/2 AND A MAX OF 2/3 THE HEIGHT OF THE LINEAR BARRIER.
9. SANDBAG ROWS AND LAYERS SHOULD BE OFFSET TO ELIMINATE GAPS.

STRAW BALE BARRIER
NOT TO SCALE

CALIFORNIA STORMWATER BMP HANDBOOK

TRENCH DETAIL

INSTALLATION WITHOUT TRENCHING

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE
NOT TO SCALE

PLAN VIEW
N.T.S.

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE
TC-1

PRELIMINARY

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
DETAIL SHEET

SES Stirling Energy Systems

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE NONE	APP. NJA	DATE 10/17/08	PROJECT: 2000026801	CAD FILE: EC-DETAIL-01.dwg	SHEET SIZE: Arch E1 (30x42)	DWG: S2-C0622	SHT. 3	REV. B
DRN. TB/CT/RB DES. PK/SD	CHK. PK/NJA	DATE 10/17/08						

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-detail-01.dwg PLOTTED: 2/4/2009 1:34 AM BY: Brees, Ron

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

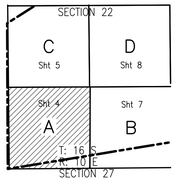
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E27A

SES Stirling Energy Systems

SHEET SIZE:	Arch E1 (30x42)
DWG:	S2-C0623
SHT.	4
REV.	B
PROJECT:	20000268801
CAD FILE:	EC-16S10E27A.dwg

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REDLANDS, CA 92374
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stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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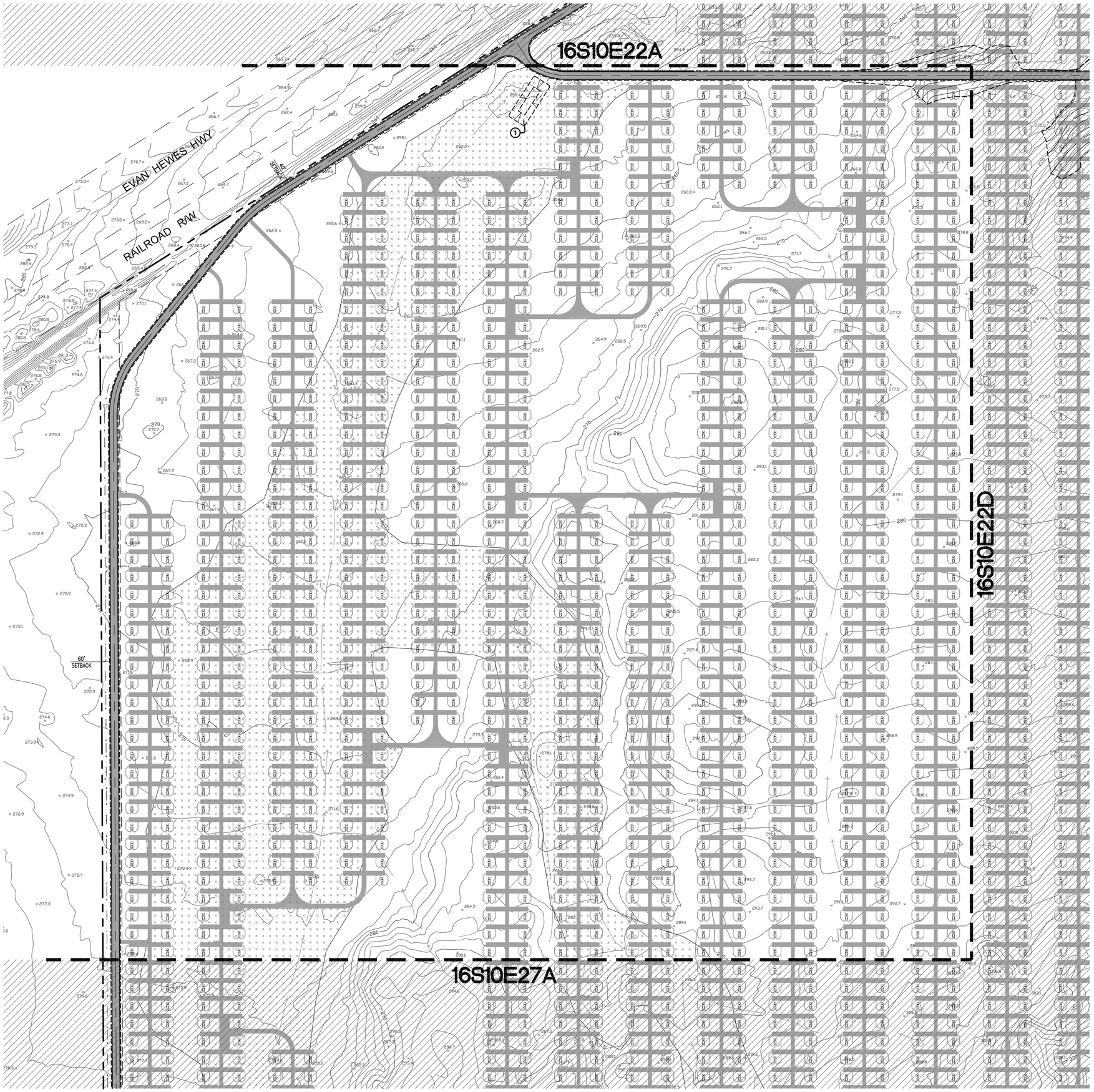

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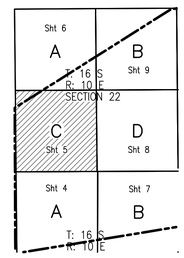
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

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(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E22C

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 5 | REV. B

PROJECT: 20000026801 | CAD FILE: EC-16S10E22C.dwg

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2586AF BUSINESS CENTER DRIVE
REDLANDS, CA 92374
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Stantec

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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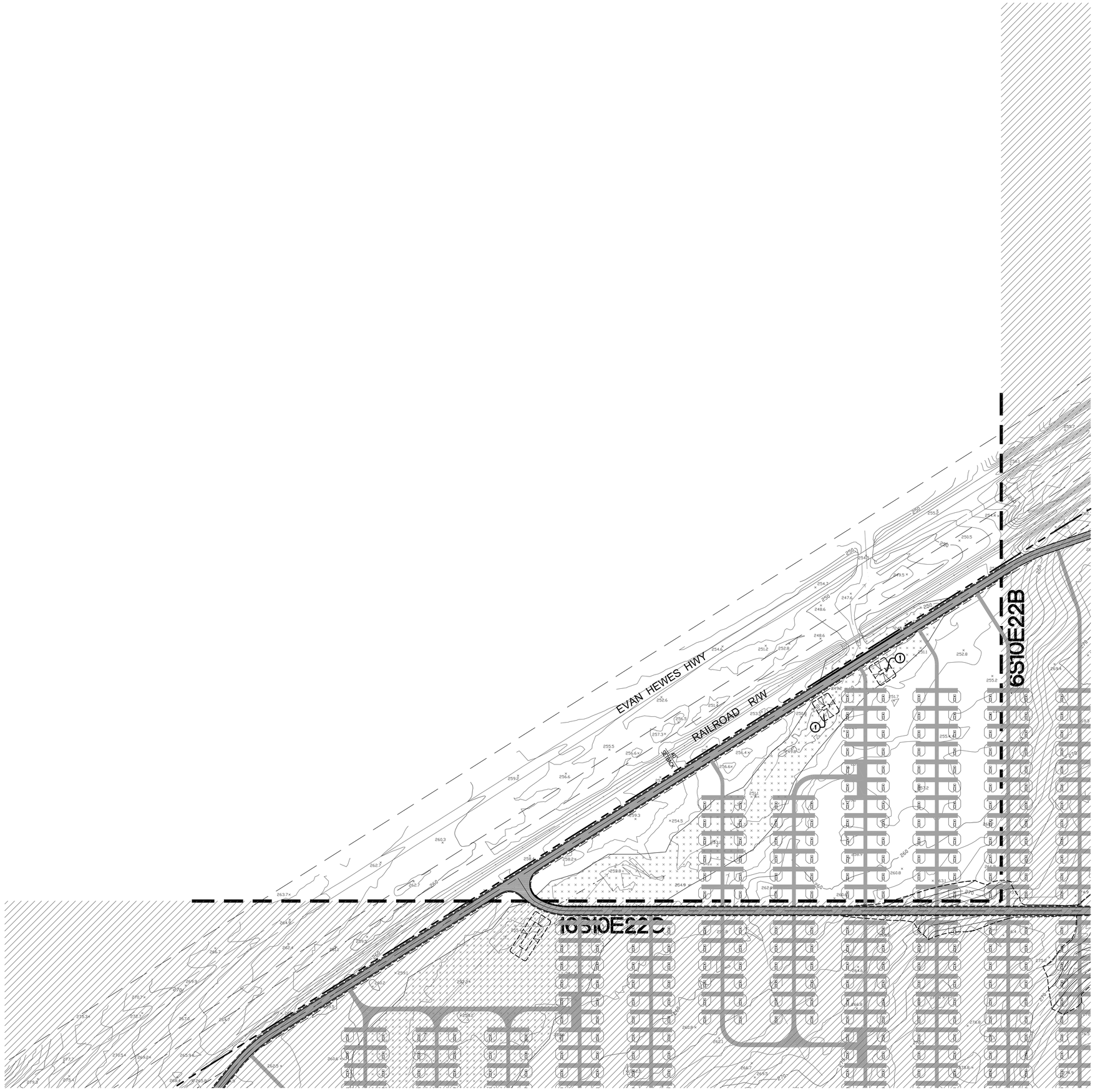

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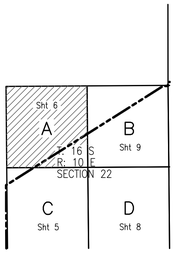

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E22A

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 6 | REV. B

PROJECT: 20000026801 | CAD FILE: EC-16S10E22A.dwg

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SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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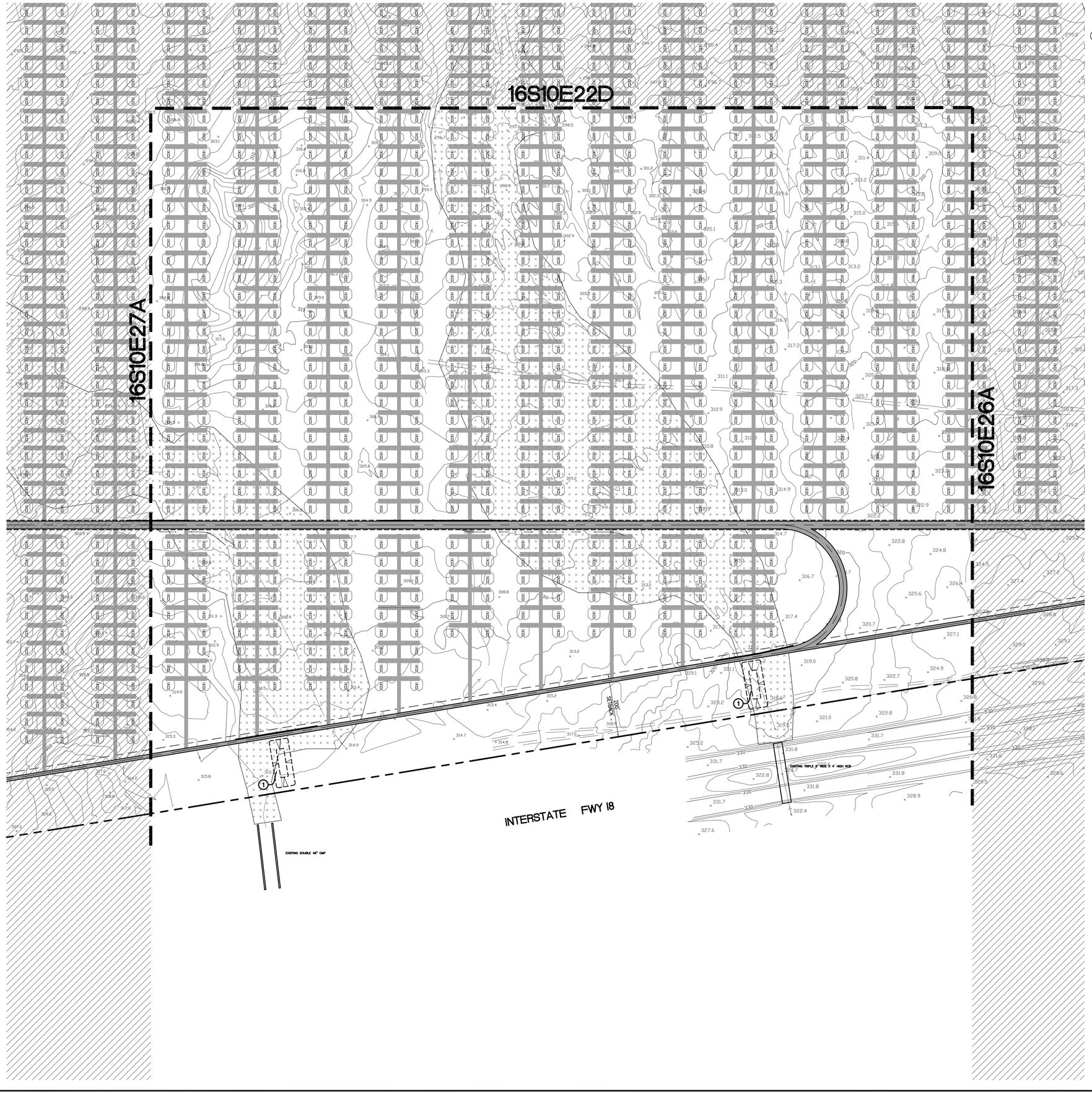

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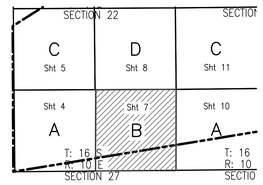

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E27B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	7	B

PROJECT:	CAD FILE:
2000026801	EC-16S10E27B.dwg

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SCALE	DRN.	DES.	APP.	CHK.	DATE
1" = 120'	TB/CT/RB	PK/SD	NJA	PK/NJA	10/17/08

NO.	DATE	BY	APP.

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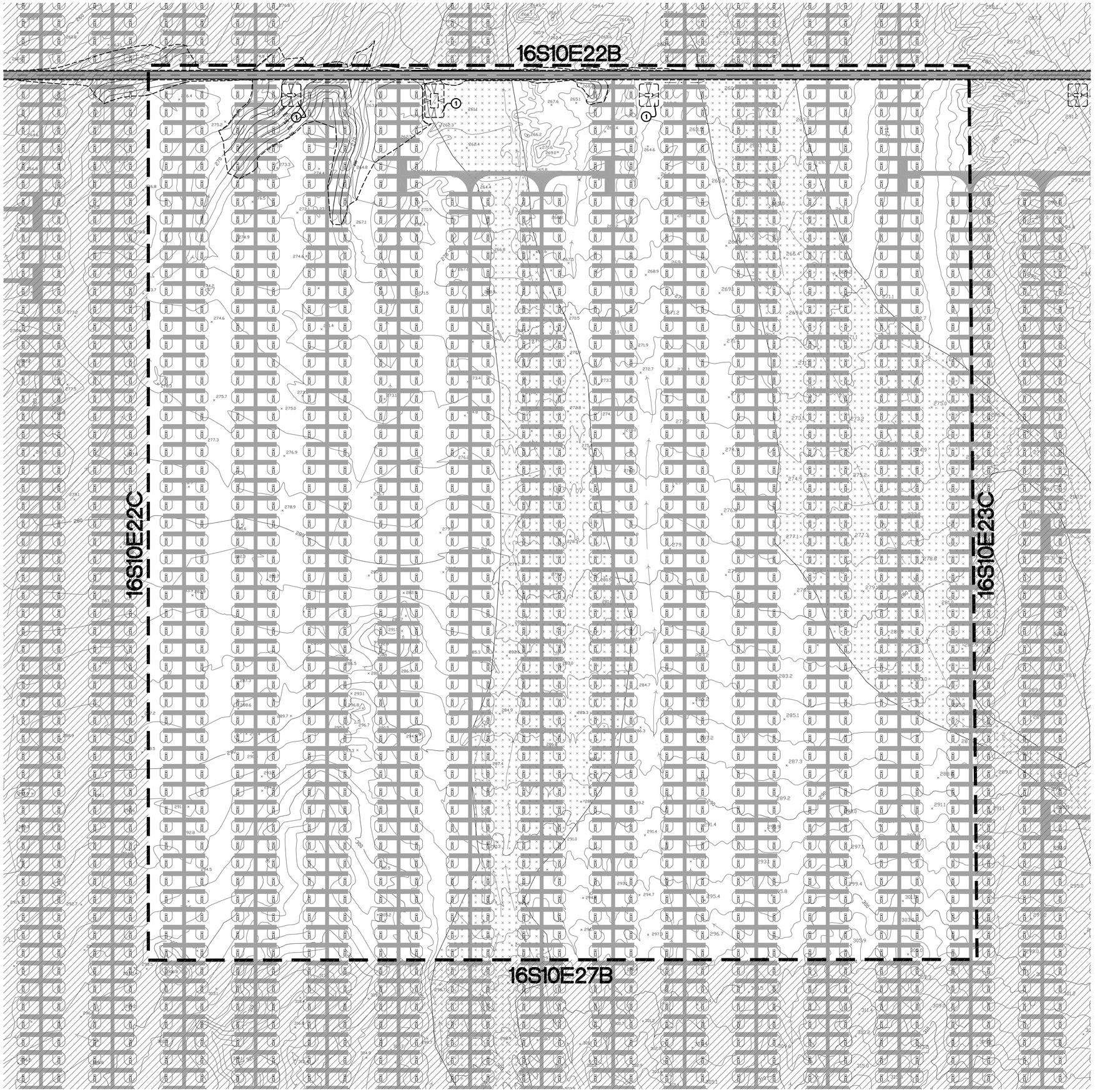

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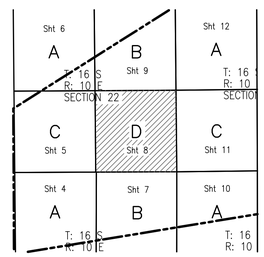

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
6S10E22D

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 8 | REV: B

PROJECT: 20000268801 | CAD FILE: EC-16S10E22D.dwg

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2384 E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555
www.stantec.com

Stantec

SCALE: 1" = 120' | APP: NA | DATE: 10/17/08
DRN: TB/CC/RB | DES: PK/SD | CHK: PK/NA | DATE: 10/17/08

NO.	DATE	BY	APP

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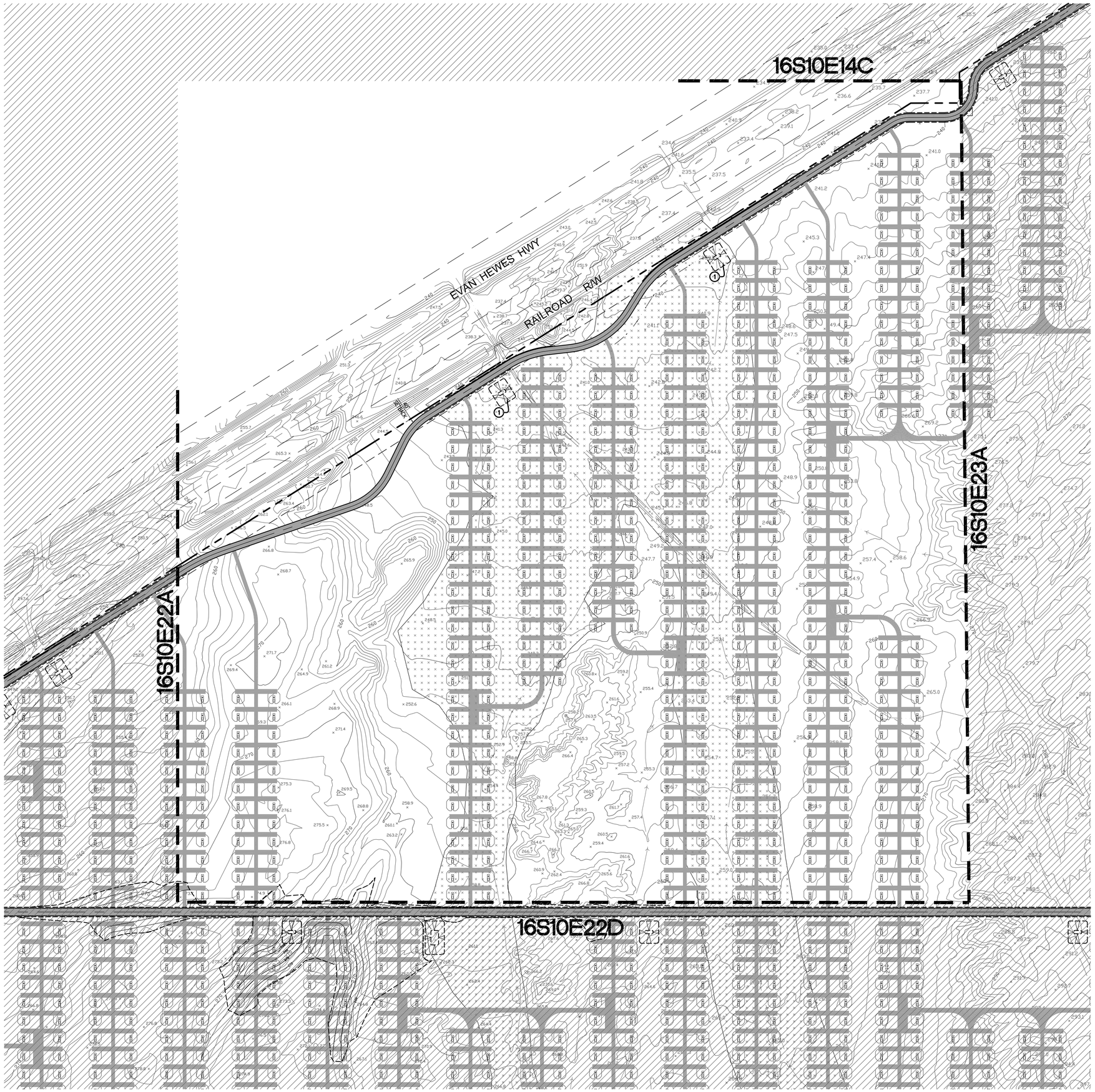

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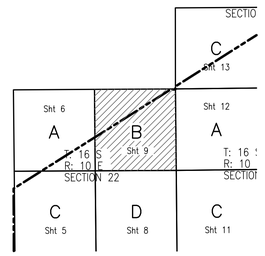
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E22B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	9	B

PROJECT:	CAD FILE:
2000026801	EC-16S10E22B.dwg

STANTEC CONSULTING INC.
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REDLANDS, CA 92374
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SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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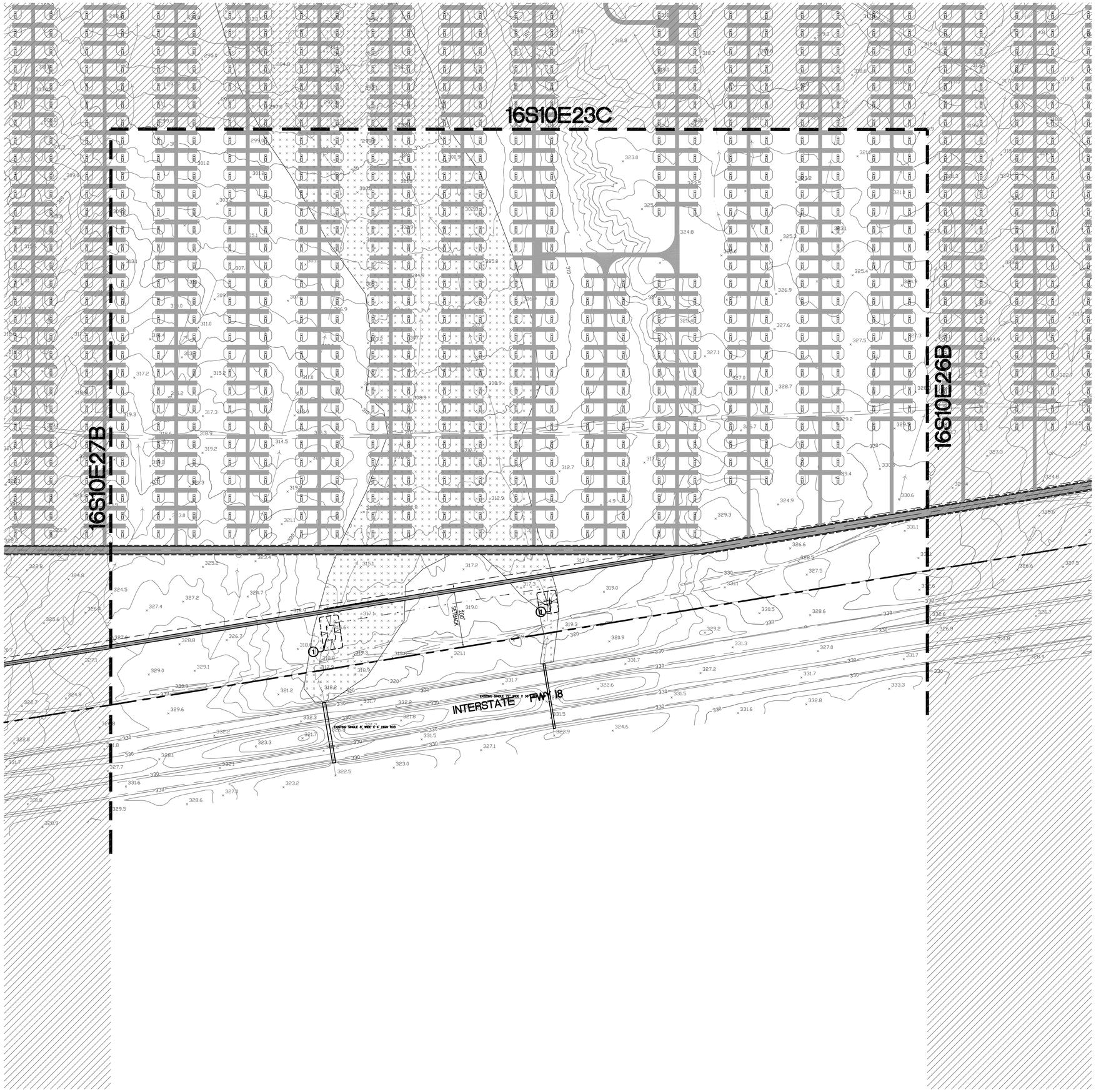

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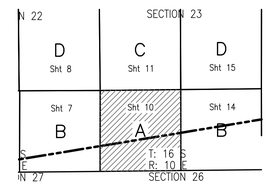

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E26A

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 10 | REV. B

PROJECT: 20000026801 | CAD FILE: EC-16S10E26A.dwg

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909.335.6116
stantec.com

SCALE 1" = 120' | DRN. TB/CT/RB | DES. PK/SD | APP. NJA | CHK. PK/NJA | DATE 10/17/08 | DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s10e26a.dwg PLOTTED: 2/4/2009 1:40 AM BY: Brees, Ron

16S10E23A

16S10E22D

16S10E23D

16S10E26A

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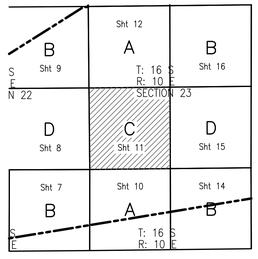
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

NO.	DATE	BY	APP

STANTEC CONSULTING INC.
2386 AT BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555

SCALE	DRN	TB/CT/RB	DES	PK/SD
1" = 120'	APP	NJA	CHK	PK/NJA

DATE 10/17/08
DATE 10/17/08

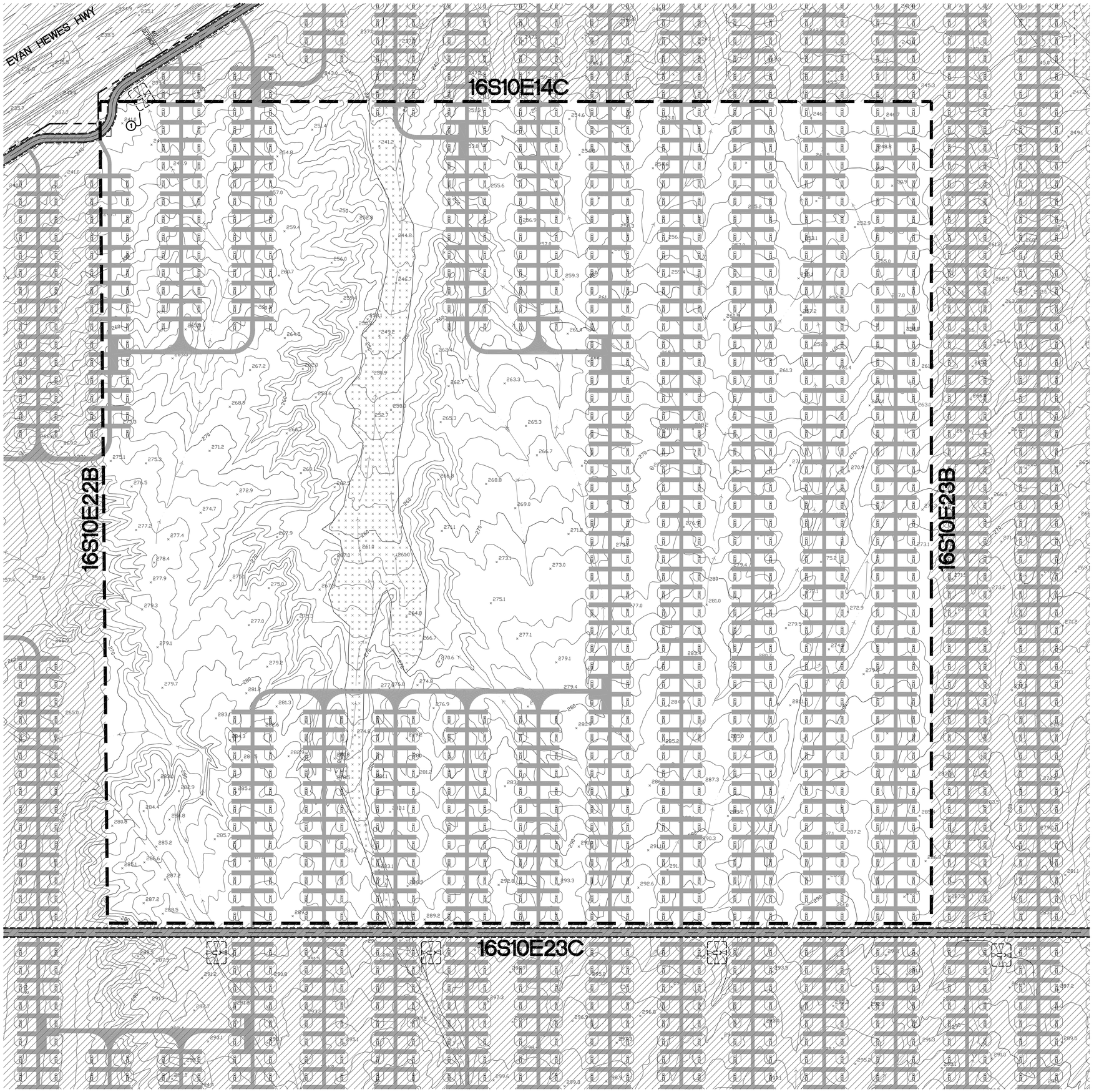
SES
Stirling Energy Systems

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
6S10E23C

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT: 11
REV: B

PROJECT: 200002680
CAD FILE: EC-16S10E23C.dwg

DRAWING: x:\2015\active\201502680\1\civil\design\drawing\plan_sets\erosion_control\ec-16s10e23c.dwg PLOTTED: 2/4/2009 1:41 AM BY: Brees, Ron



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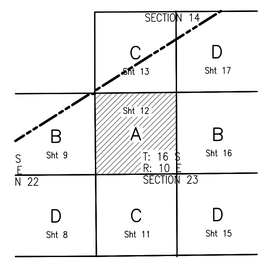
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E23C

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 12 | REV: B

SES — Stirling Energy Systems

PROJECT: 20000268801 | CAD FILE: EC-16S10E23A.dwg

STANTEC CONSULTING INC.
2384 E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1536
www.stantec.com

BY	APP	NO	DATE
DRN: TB/CC/RB	CHK: PK/NA	DATE: 10/17/08	
DES: PK/SD	APP: NA	DATE: 10/17/08	
SCALE: 1" = 120'			

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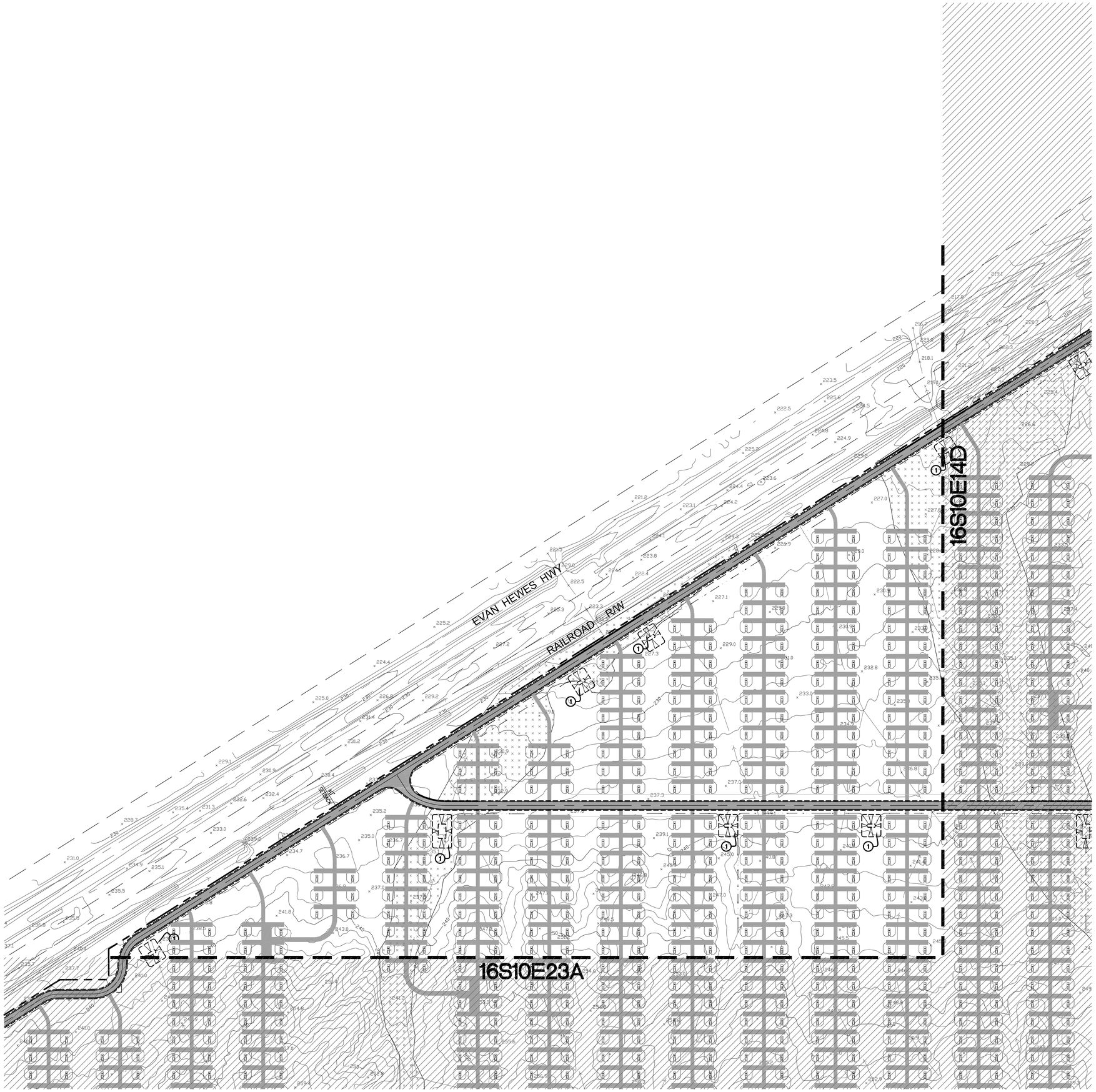


CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

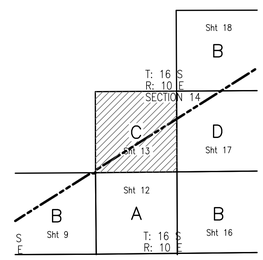
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE
  NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SANDBAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E14C

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 13 | REV: B

PROJECT: 20000268011 | CAD FILE: EC-16S10E14C.dwg

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2186 AT BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555 www.stantec.com

Stantec | SCALE: 1" = 120' | APP: NJA | DATE: 10/17/08
DRN: TB/CS/RB | DES: RK/SD | CHK: RK/NJA | DATE: 10/17/08

NO.	DATE	BY	APP

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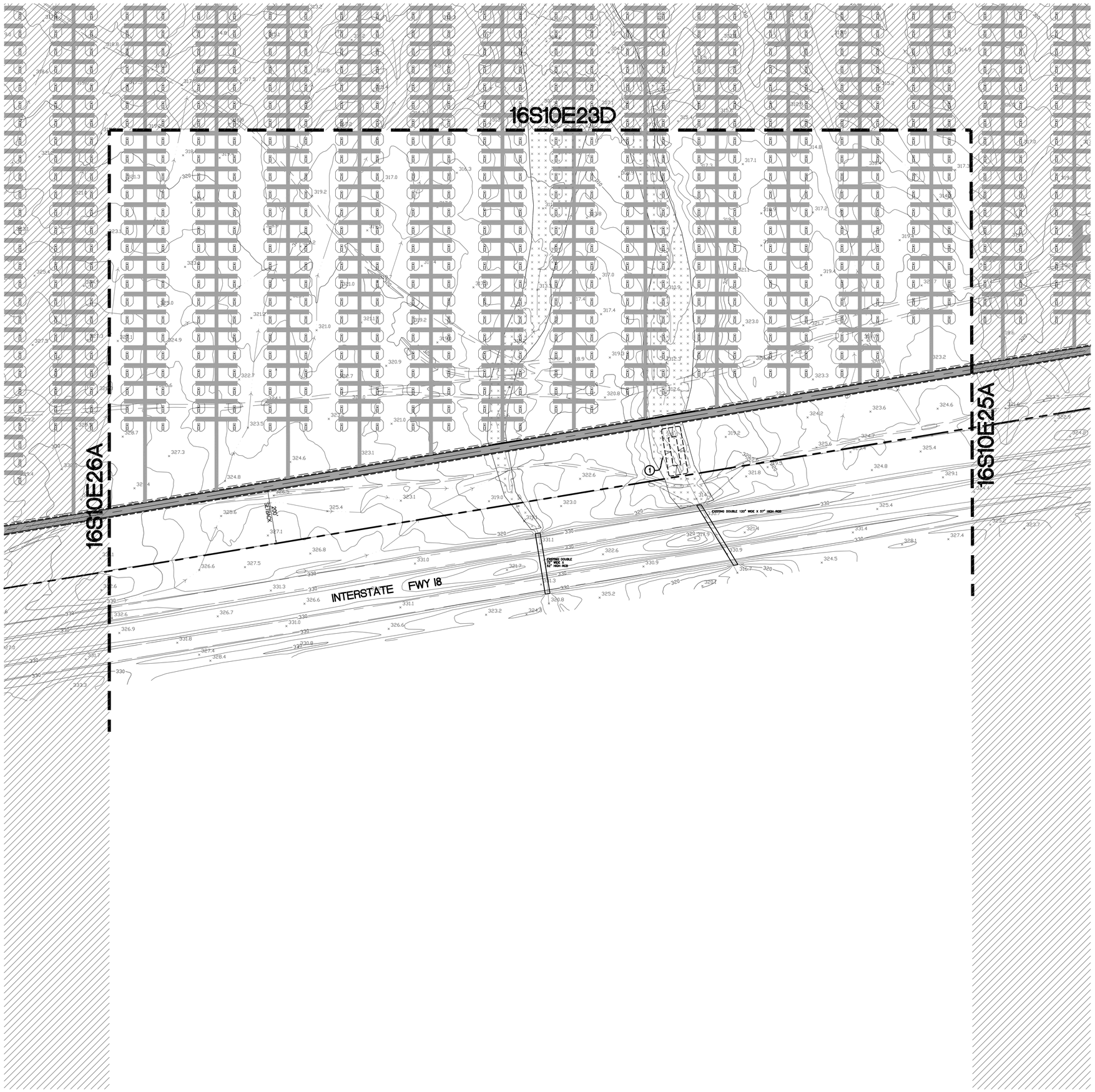

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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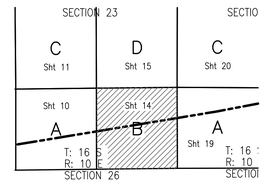
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E26B

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 14 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S10E26B.dwg

STANTEC CONSULTING INC.
25864 F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

Stantec

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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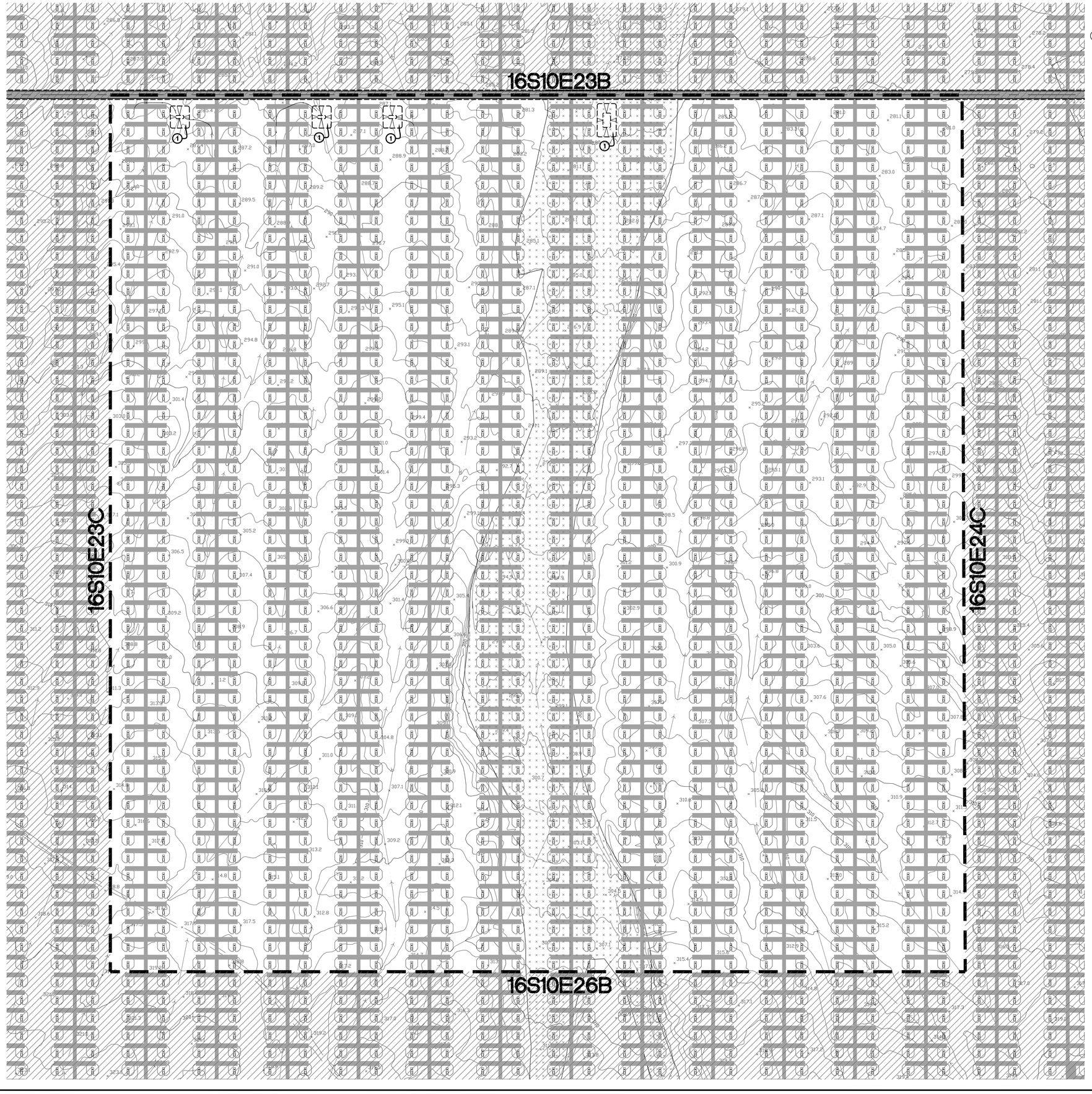

CONSTRUCTION NOTES:

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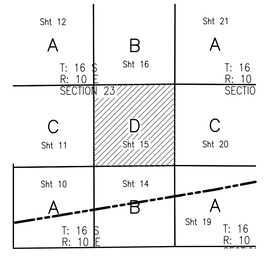
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E23C

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 15 | REV: B

PROJECT: 20000268801 | CAD FILE: EC-16S10E23C.dwg | DATE: 10/17/08 | DATE: 10/17/08

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2384 E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
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SCALE: 1" = 120' | APP: NA | CHK: PK/NA | DES: PK/SD | DRN: TB/CC/RB

NO.	DATE	BY	APP

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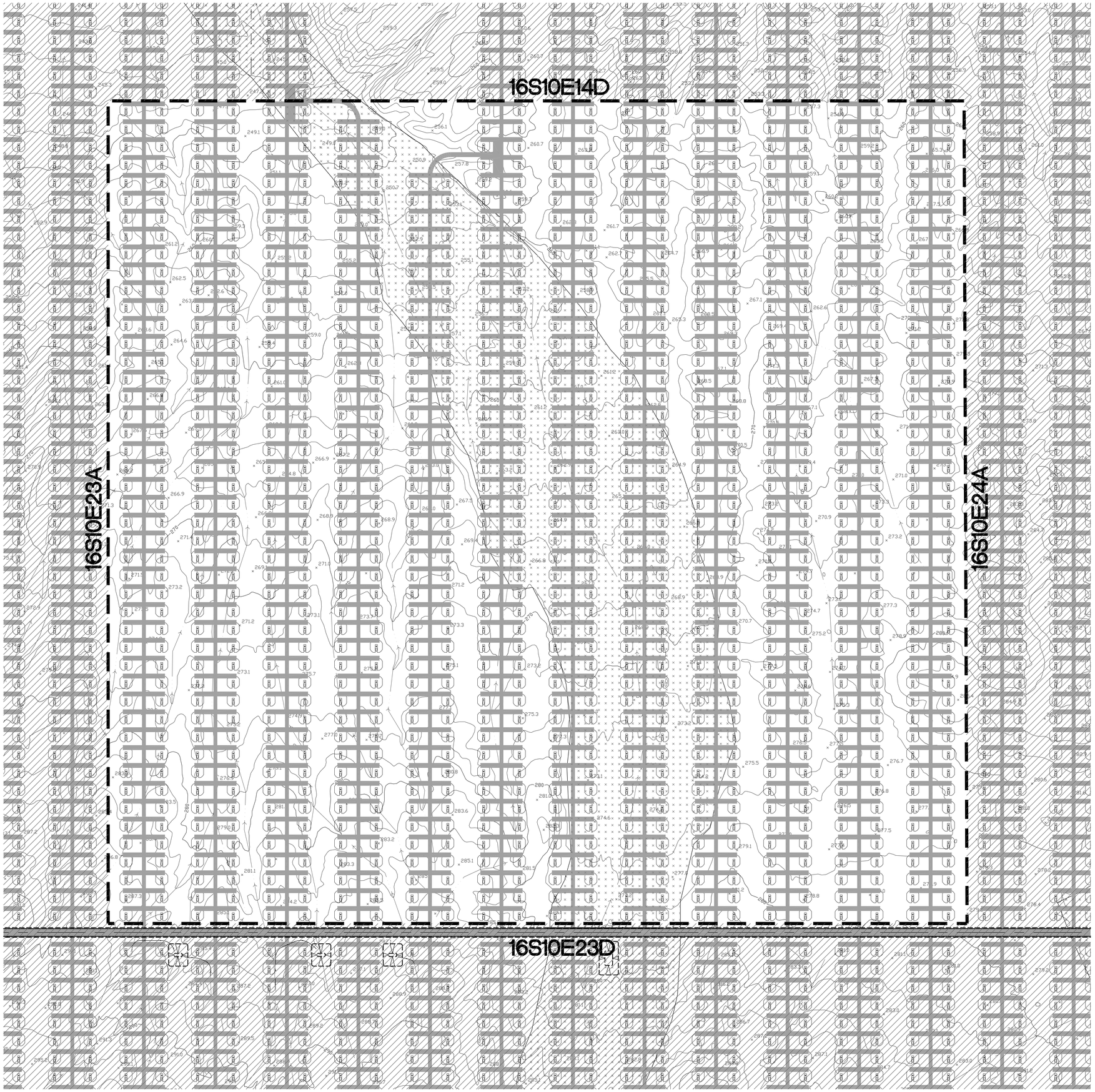

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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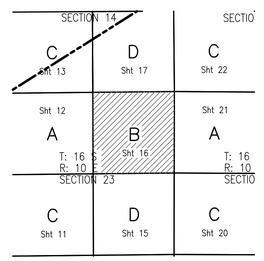
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E23B

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 16
REV. B

SES Stirling Energy Systems

PROJECT: 20000.2000.0026501
CAD FILE: 20000.2000.0026501.38.dwg

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909.335.6116
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SCALE 1" = 120'
DRN. TB/CT/RB DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.

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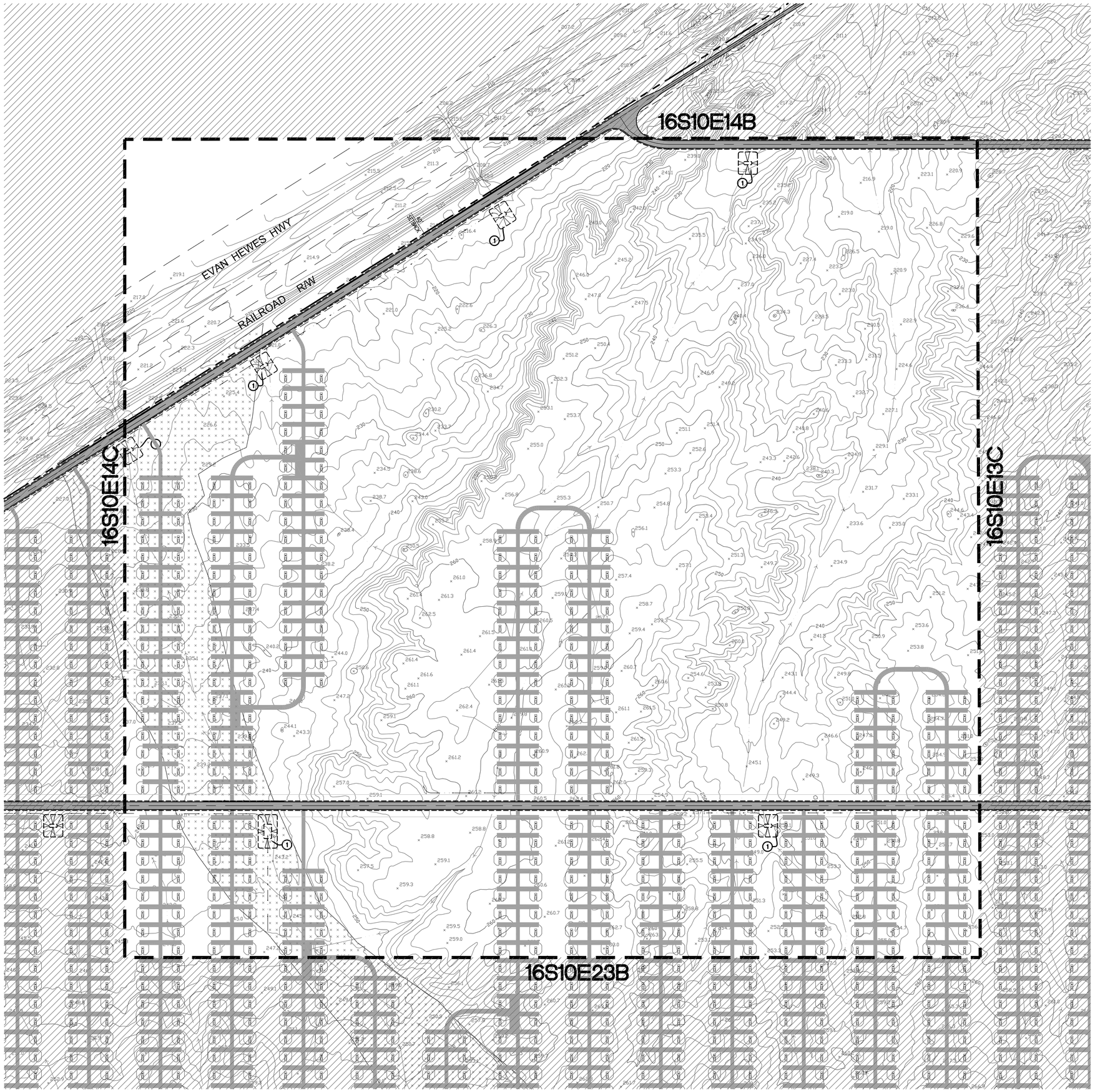

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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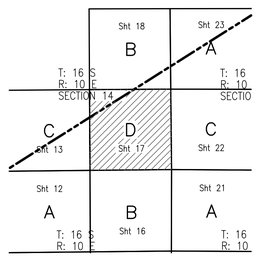
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E14D

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 17 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S10E14D.dwg

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2586-A4 BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
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SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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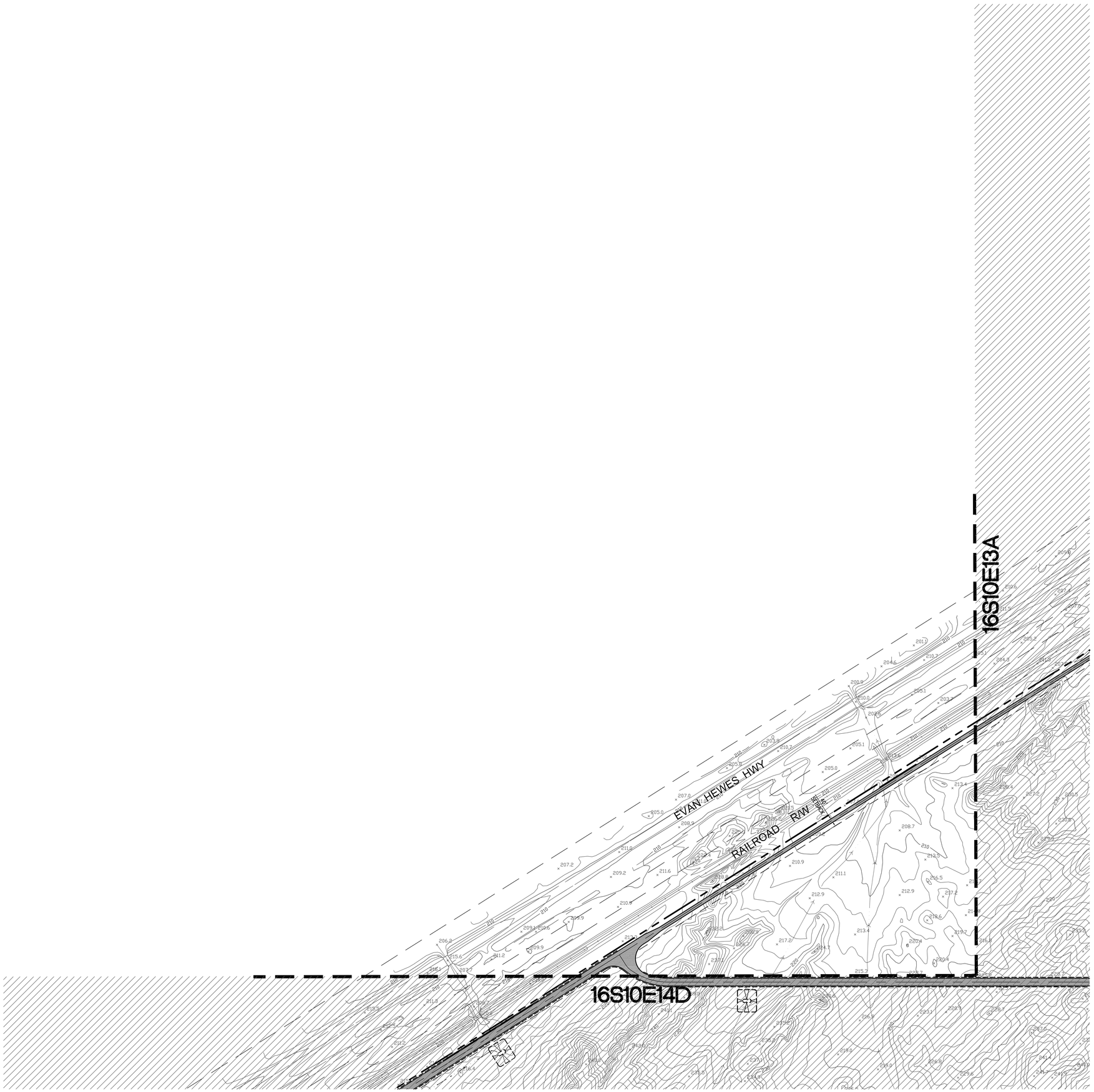

CONSTRUCTION NOTES:

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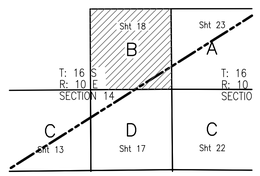
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E14B

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 18 | REV. B

SES Stirling Energy Systems

PROJECT: 20000268801 | CAD FILE: EC-16S10E14B.dwg

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REDLANDS, CA 92374
909.335.6116
stantec.com

Stantec

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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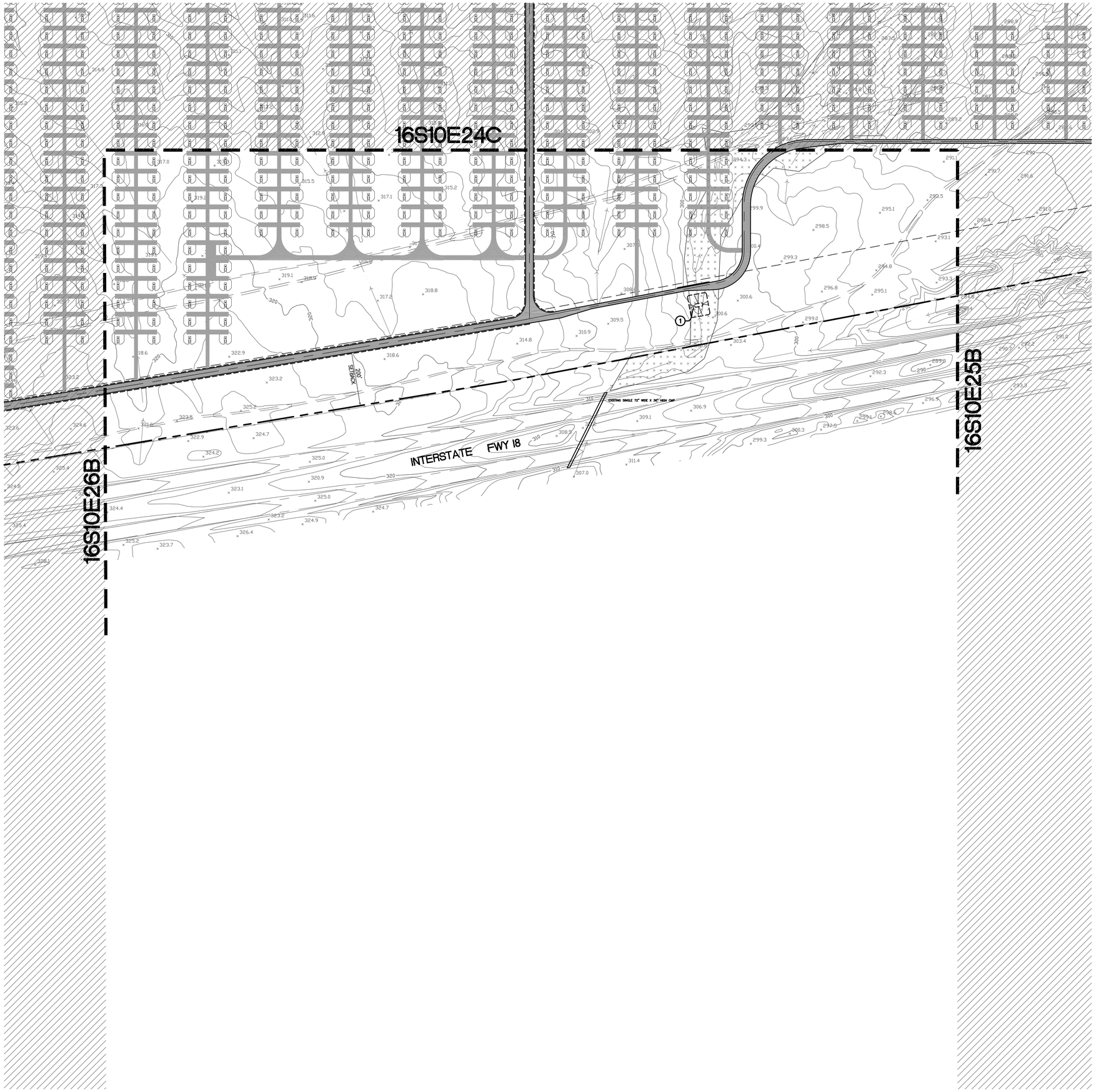

CONSTRUCTION NOTES:

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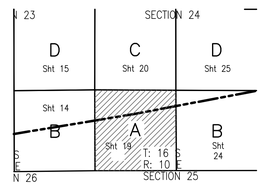
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E25A

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 19 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S10E25A.dwg

STANTEC CONSULTING INC.
2586A-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120' | DRN. TB/CT/RB | DES. PK/SD | APP. NJA | CHK. PK/NJA | DATE 10/17/08 | DATE 10/17/08

NO.	DATE	BY	APP.

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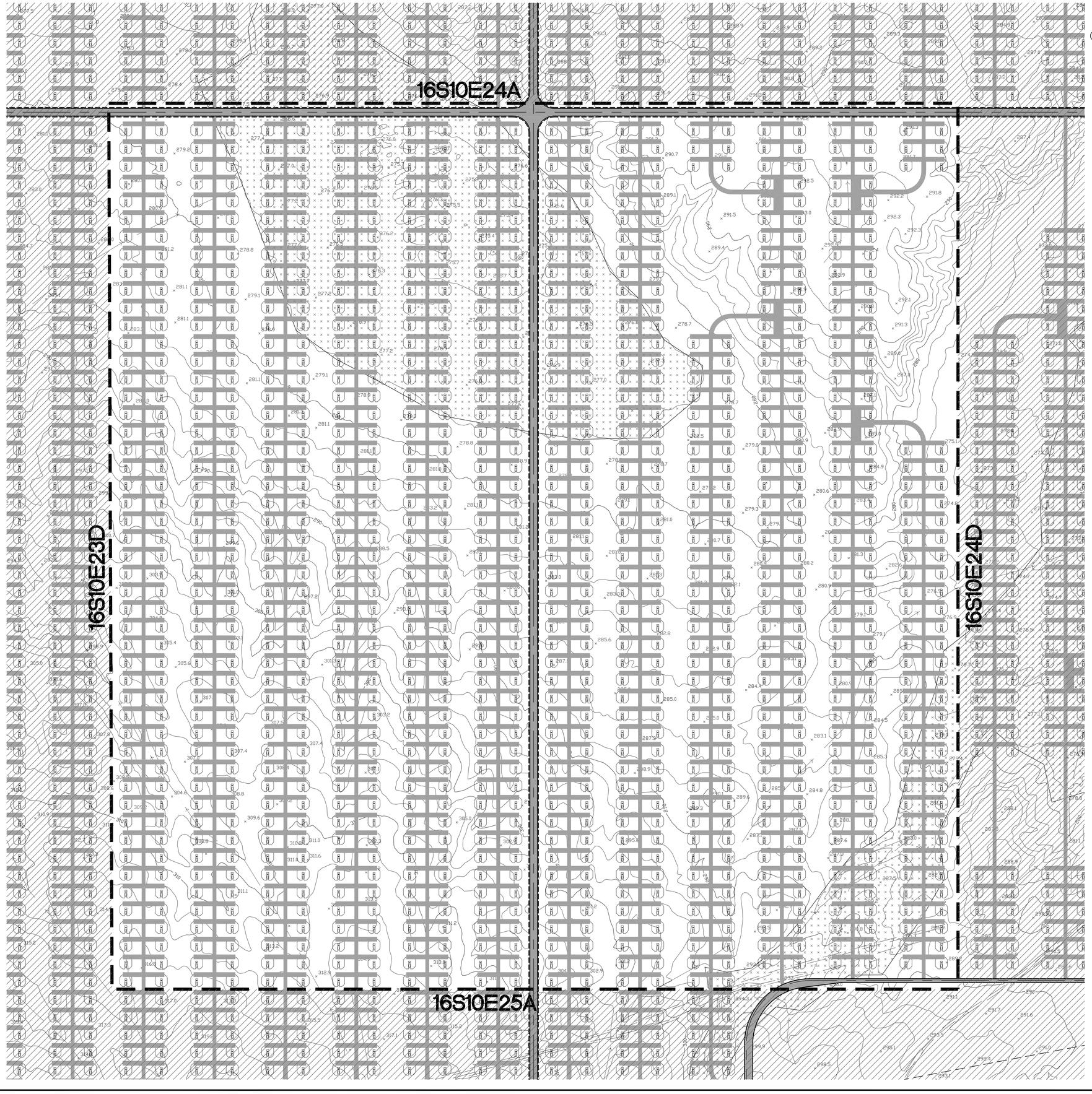

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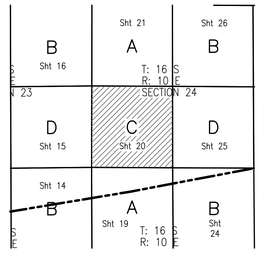
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E24C

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 20
REV. B

SES Stirling Energy Systems

PROJECT: 2000026801
CAD FILE: EC-16S10E24C.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120'
DRN. TB/CT/RB
DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.

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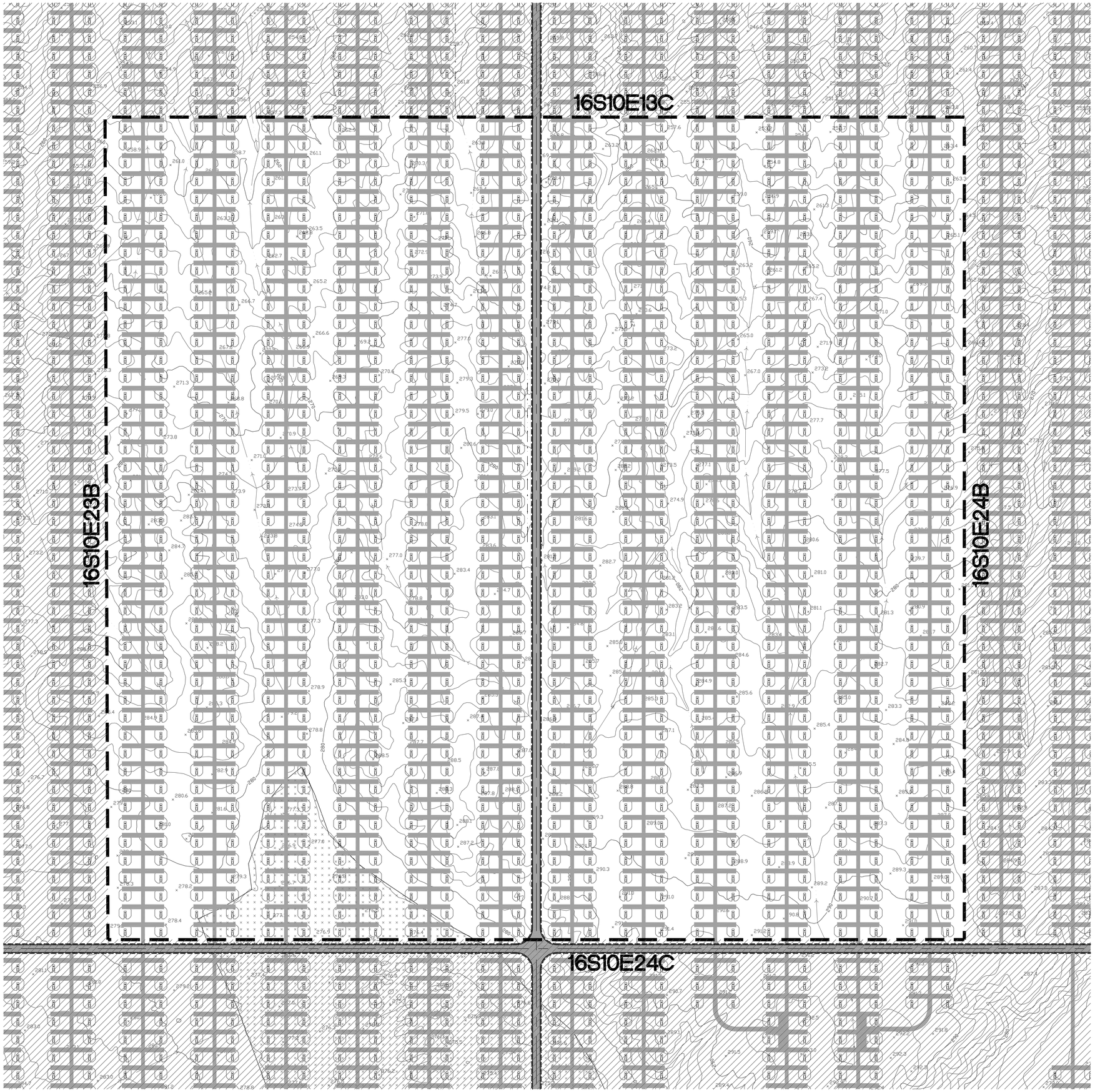

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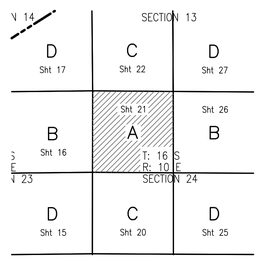
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE
  NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E24A

SES Stirling Energy Systems

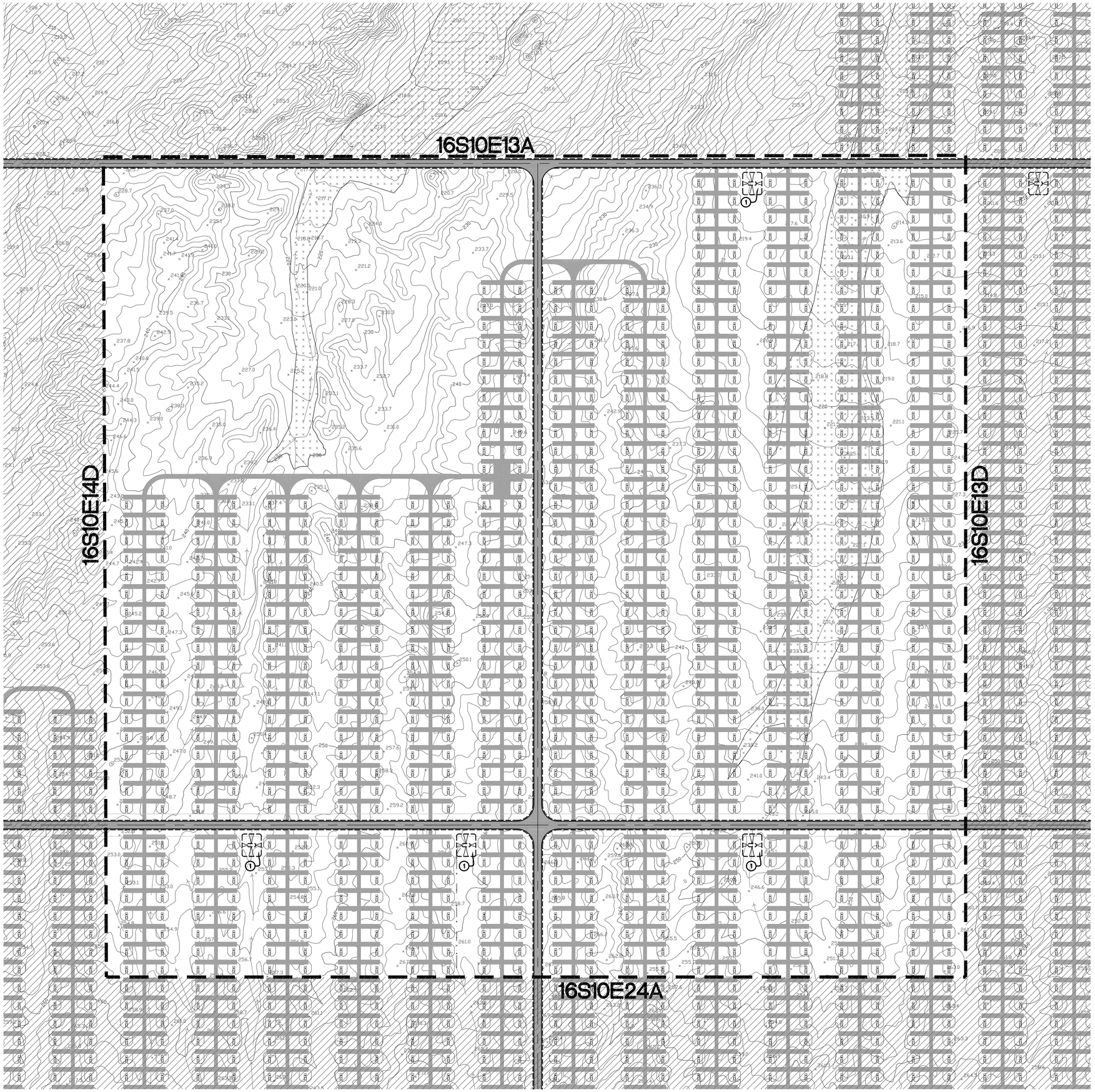
STANTEC CONSULTING INC.
25864 F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

PROJECT: 2000026801 | CAD FILE: EC-16S10E24A.dwg | SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 21 | REV. B

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s10e24a.dwg PLOTTED: 2/4/2009 1:49 AM BY: Brees, Ron



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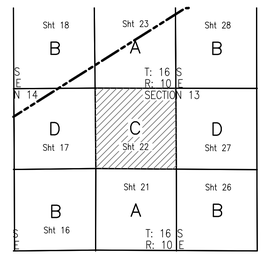

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E13C

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)	DWG: S2-C0623
SHT. 22	REV. B
PROJECT: 2000026801	CAD FILE: EC-16S10E13C.dwg

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2584-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120'	APP. NJA
DATE 10/17/08	DRN. TB/CT/RB
DES. PK/SD	CHK. PK/NJA
DATE 10/17/08	

NO.	DATE	BY	APP.

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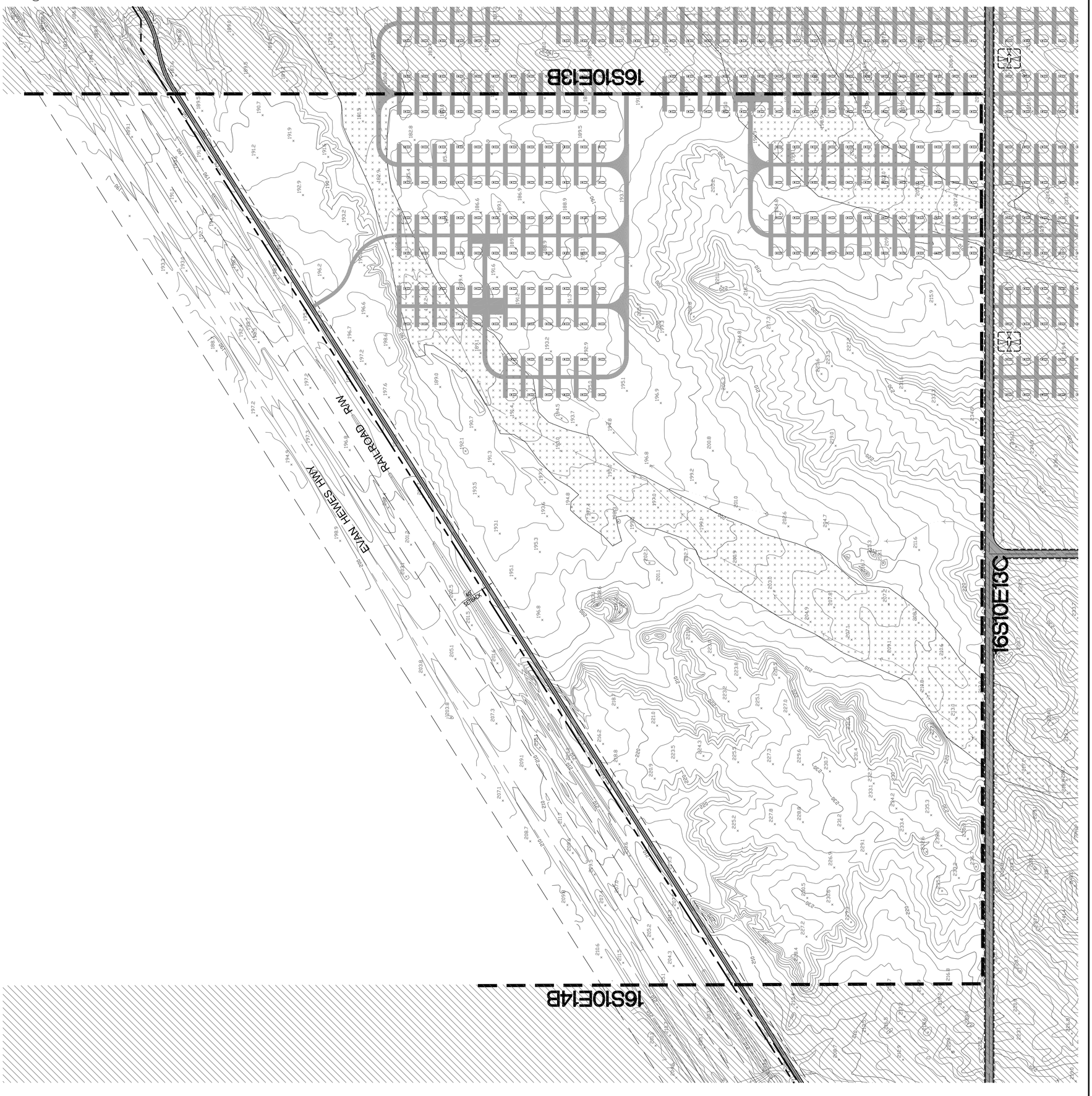

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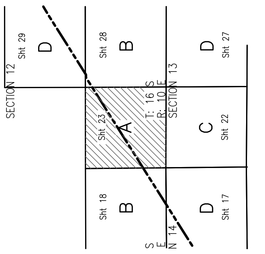


PRELIMINARY

GRAPHIC SCALE

(IN FEET)
1 inch = 120 ft.

NO.	DATE		BY	APP.

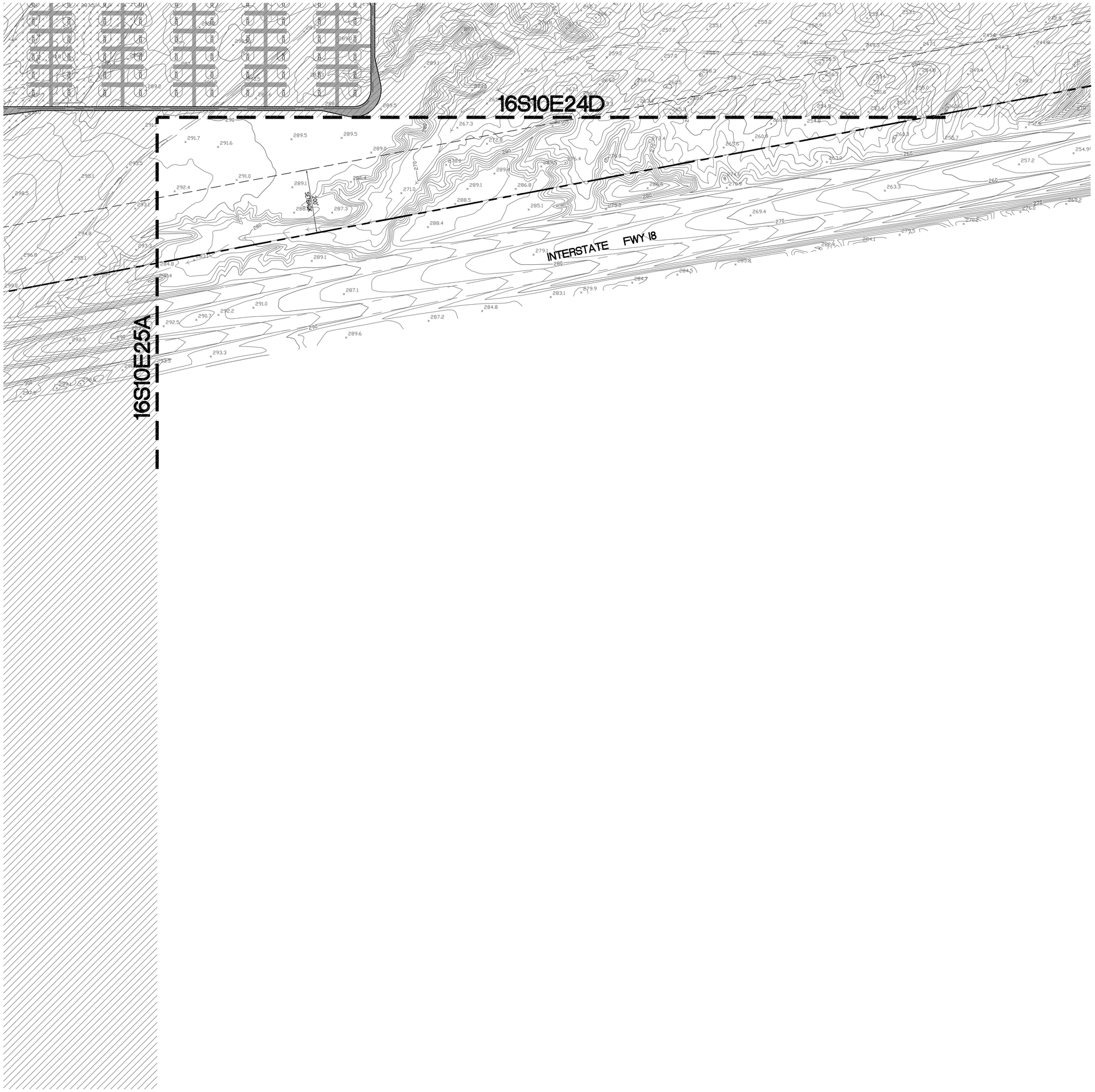
STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
Stantec

SCALE	DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	APP. NJA	DATE 10/17/08	DATE 10/17/08	PROJECT	CAD FILE	SHEET SIZE	DWG	SHT.	REV.
1" = 120'							20000026801	EC-16S10E13A.dwg	Arch E1 (30x42)	S2-C0623	23	B

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E13A

SES Stirling Energy Systems

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s10e13a.dwg PLOTTED: 2/4/2009 1:50 AM BY: Brees, Ron



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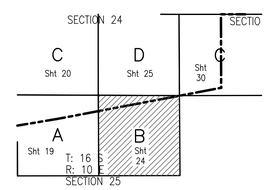

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E25B

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 24 | REV. B

PROJECT: 20000268801 | CAD FILE: EC-16S10E25B.dwg

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stantec.com

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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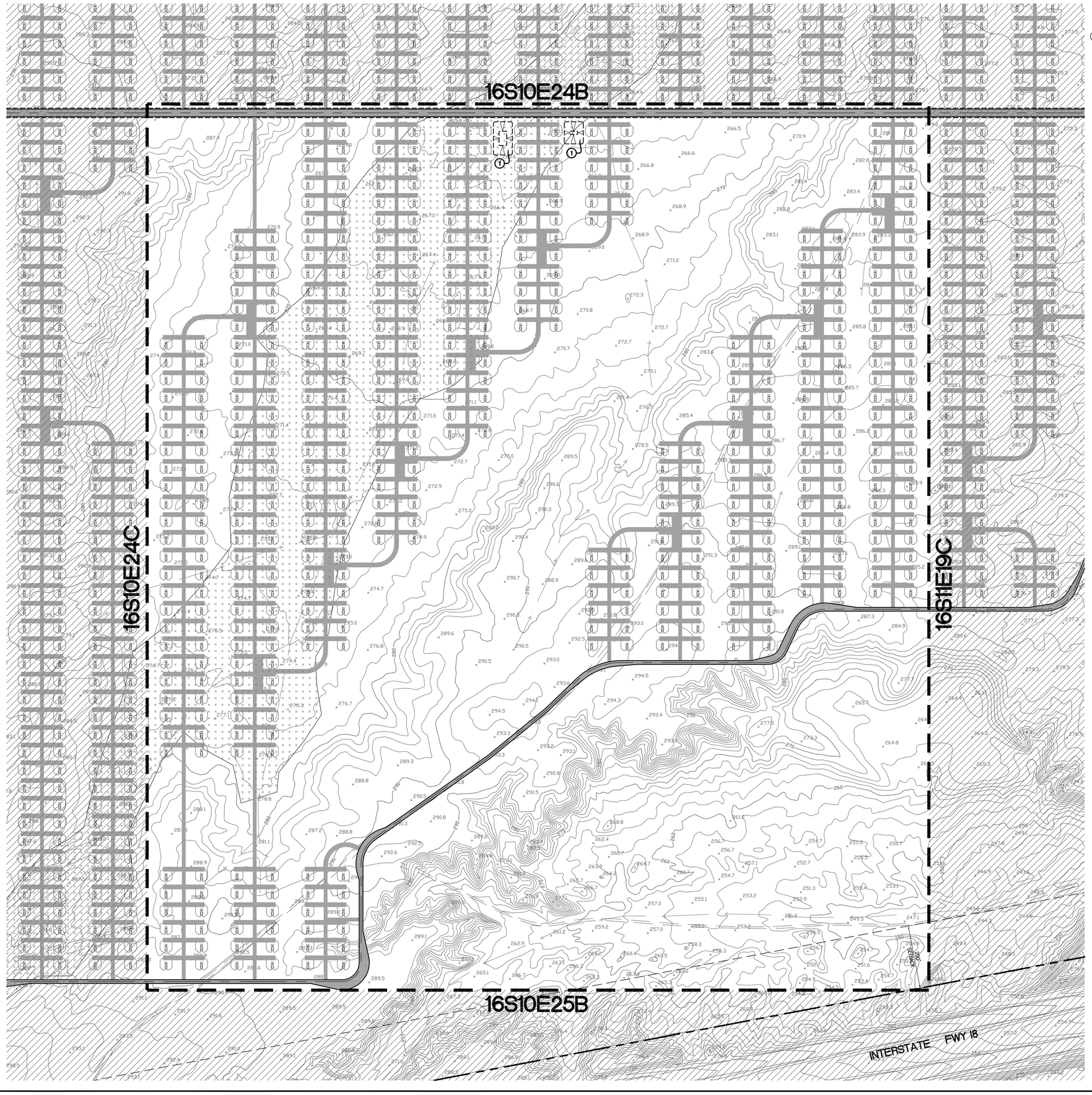

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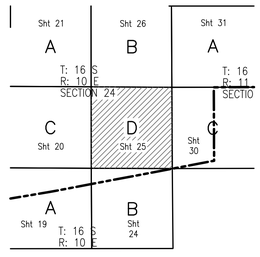
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E24D

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	25	B

PROJECT:	CAD FILE:
2000026801	EC-16S10E24D.dwg

STANTEC CONSULTING INC.
2386AF BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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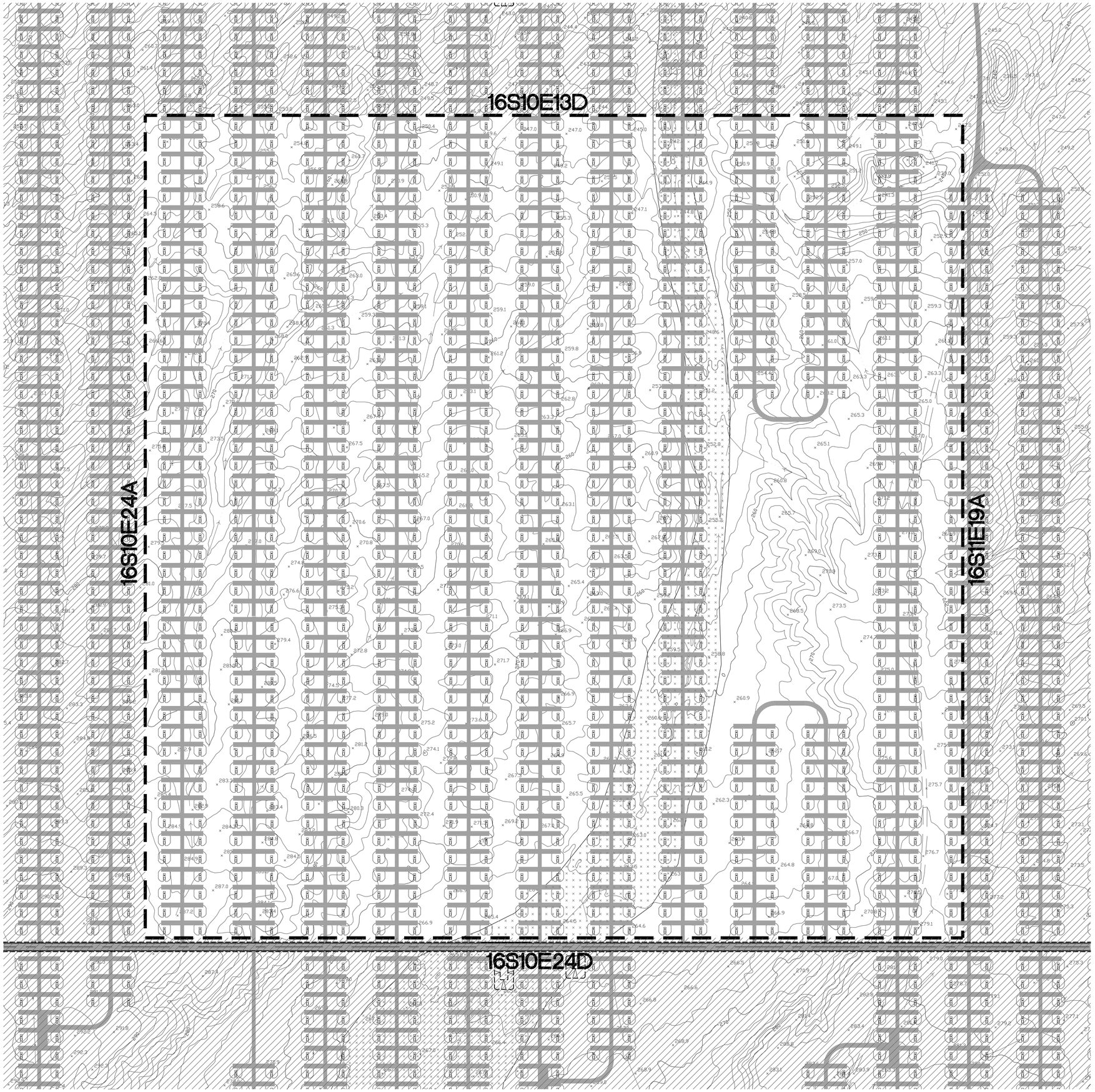

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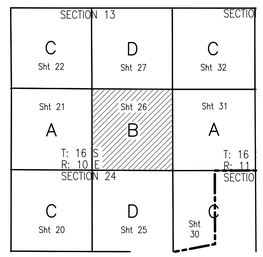
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E24B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	26	B

PROJECT:	CAD FILE:
2000026801	EC-16S10E24B.dwg

STANTEC CONSULTING INC.
2586 AF BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	DATE	APP.	DRN.	DES.	CHK.	DATE
1" = 120'	10/17/08	NJA	TB/CT/RB	PK/SD	PK/NJA	10/17/08

NO.	DATE	BY	APP.

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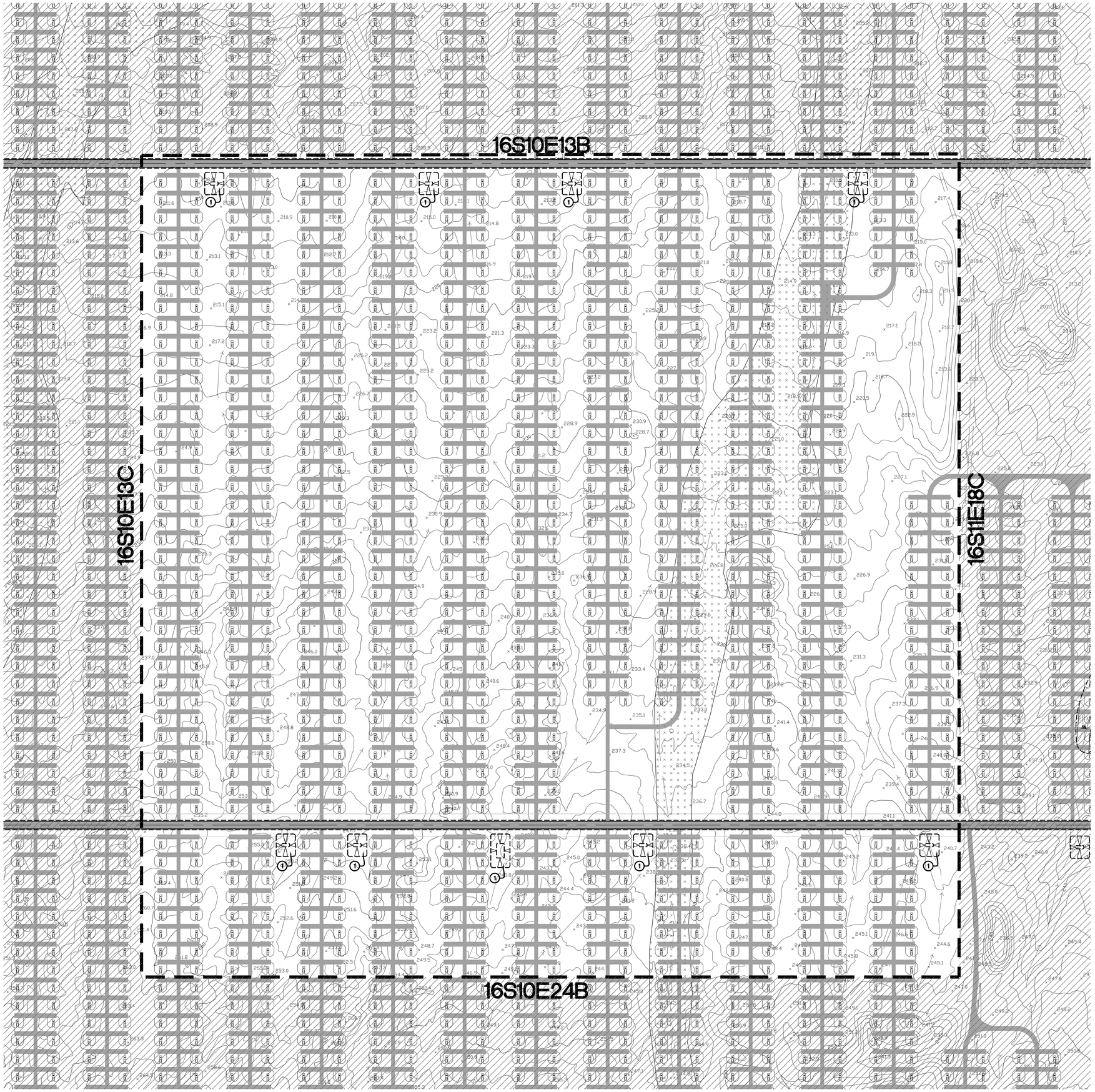

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- SAND BAGS
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INDEX MAP

Sht 23 A T: 16 S R: 10 E	Sht 28 B	Sht 33 A T: 16 R: 11
SECTION 13		SECTIO
C Sht 22	D Sht 27	C Sht 32
Sht 21 A T: 16 S R: 10 E	Sht 26 B	Sht 31 A T: 16 R: 11

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E13D

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 27
REV. B

PROJECT: 2000026801
CAD FILE: EC-16S10E13D.dwg

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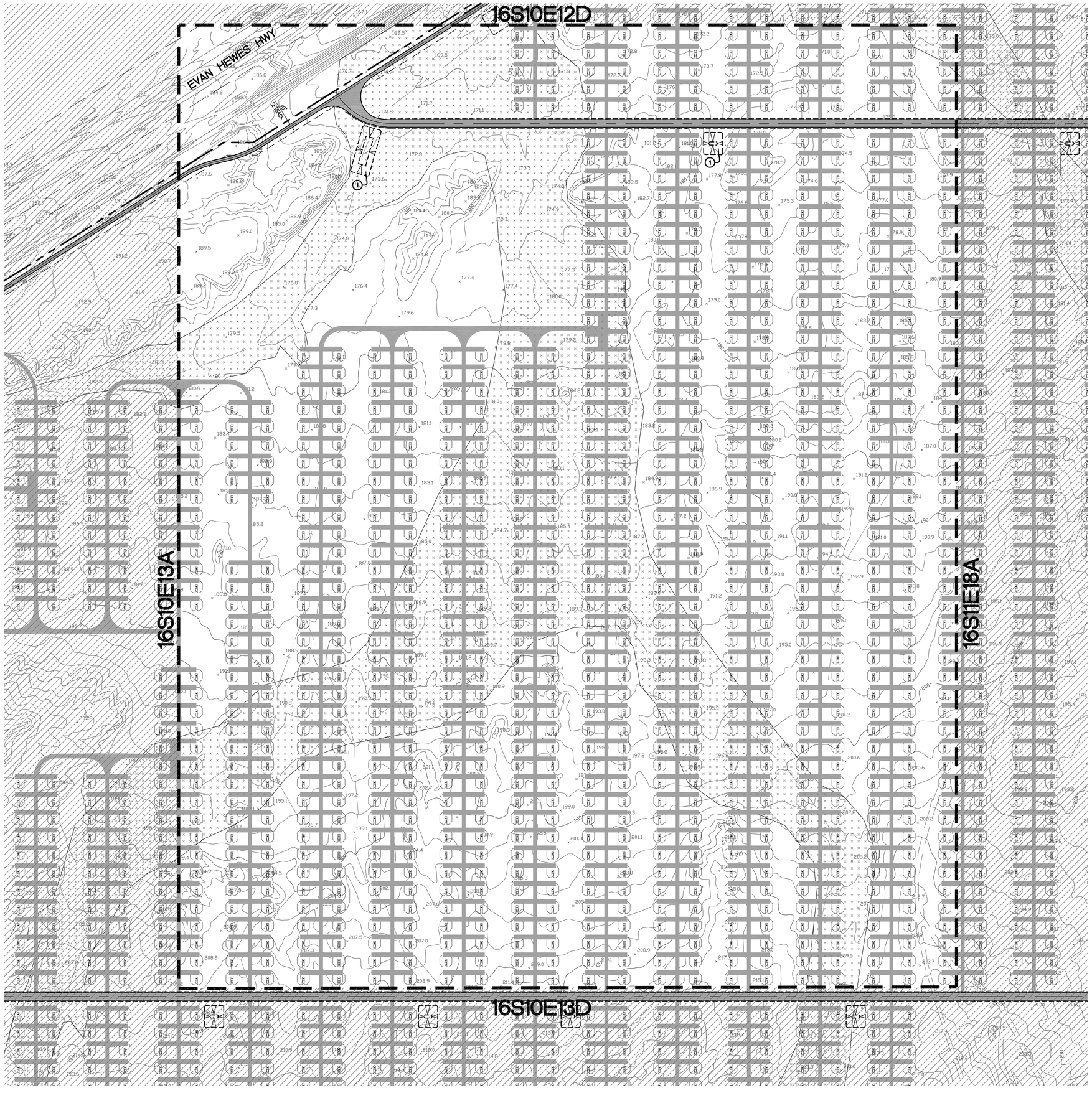
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120'
DRN. TB/CT/RB
DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.



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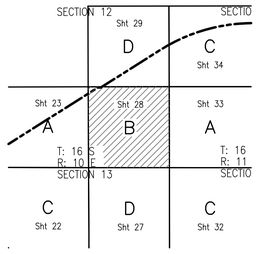

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SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E13B

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 28 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S10E13B.dwg

STANTEC CONSULTING INC.
25864 F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
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stantec.com

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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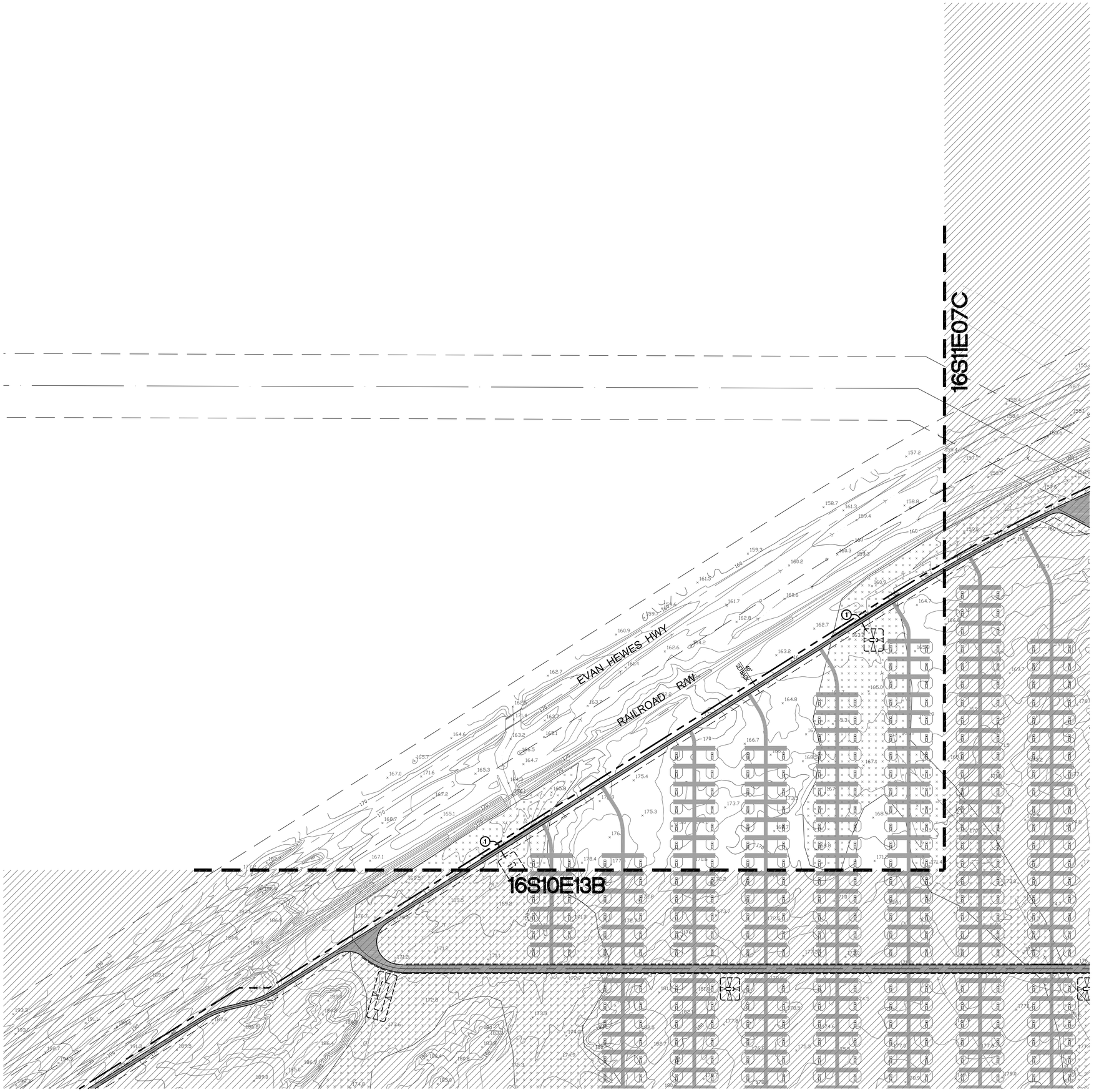

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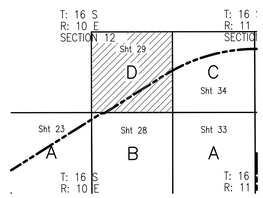

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

NO	DATE	BY	APP

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S10E12D

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 29 | REV: B

SES Stirling Energy Systems

PROJECT: 20000226801 | CAD FILE: EC-16S10E12D.dwg

STANTEC CONSULTING INC.
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REDLANDS, CA 92374
(909) 335-1555 www.stantec.com

Stantec | SCALE: 1" = 120' | DRN: TB/CT/RB | DES: PK/SD | APP: NJA | CHK: PK/NJA | DATE: 10/17/08 | DATE: 10/17/08

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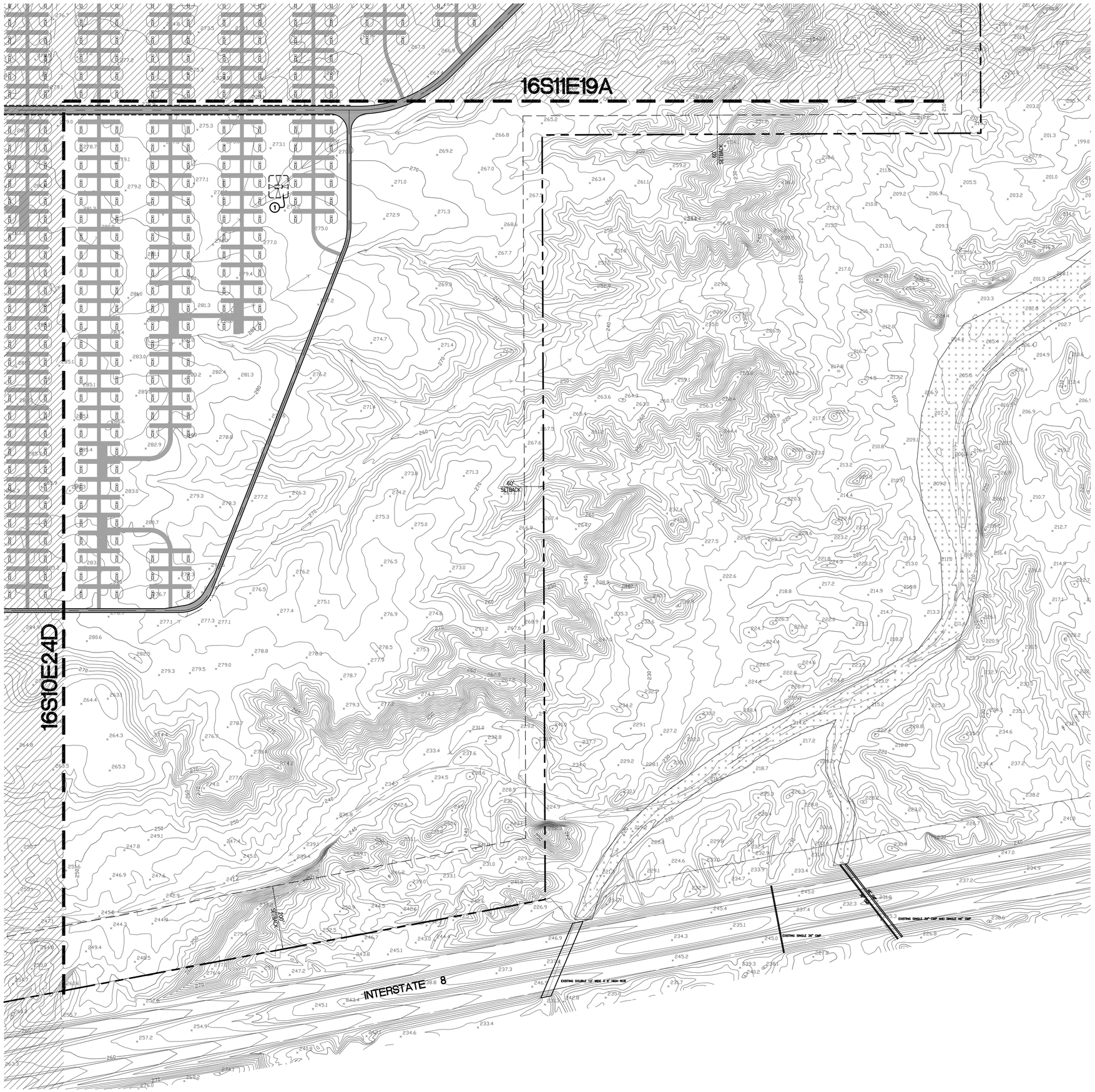


CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

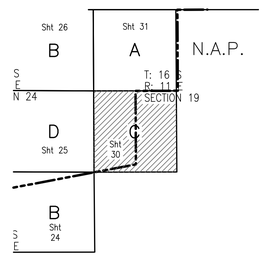
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. — NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE
  NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E19C

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 30 | REV: B

PROJECT: 20000268801 | CAD FILE: EC-16S11E19C.dwg | DATE: 10/17/08

STANTEC CONSULTING INC.
2384 E BASELINE CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555
www.stantec.com

DATE: 10/17/08

SCALE: 1" = 120' | APP: NJA | CHK: PK/NJA | DRN: TB/CT/RB | DES: PK/SD

NO.	DATE	BY	APP

DRAWING: c:\2010\active\20150268801\civil\design\drawing\plan_set\erosion_control\ec-16s11e19c.dwg PLOTTED: 2/4/2009 1:55 AM BY: Brees, Ron

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E19A

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 31 | REV. B

SES Stirling Energy Systems

STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116

SCALE	1" = 120'	APP. NJA	DATE 10/17/08	PROJECT: 2000026801	CAD FILE: EC-16S11E19A.dwg
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08		

NO.	DATE		BY	APP.

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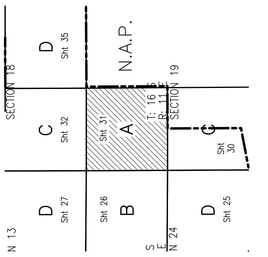
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

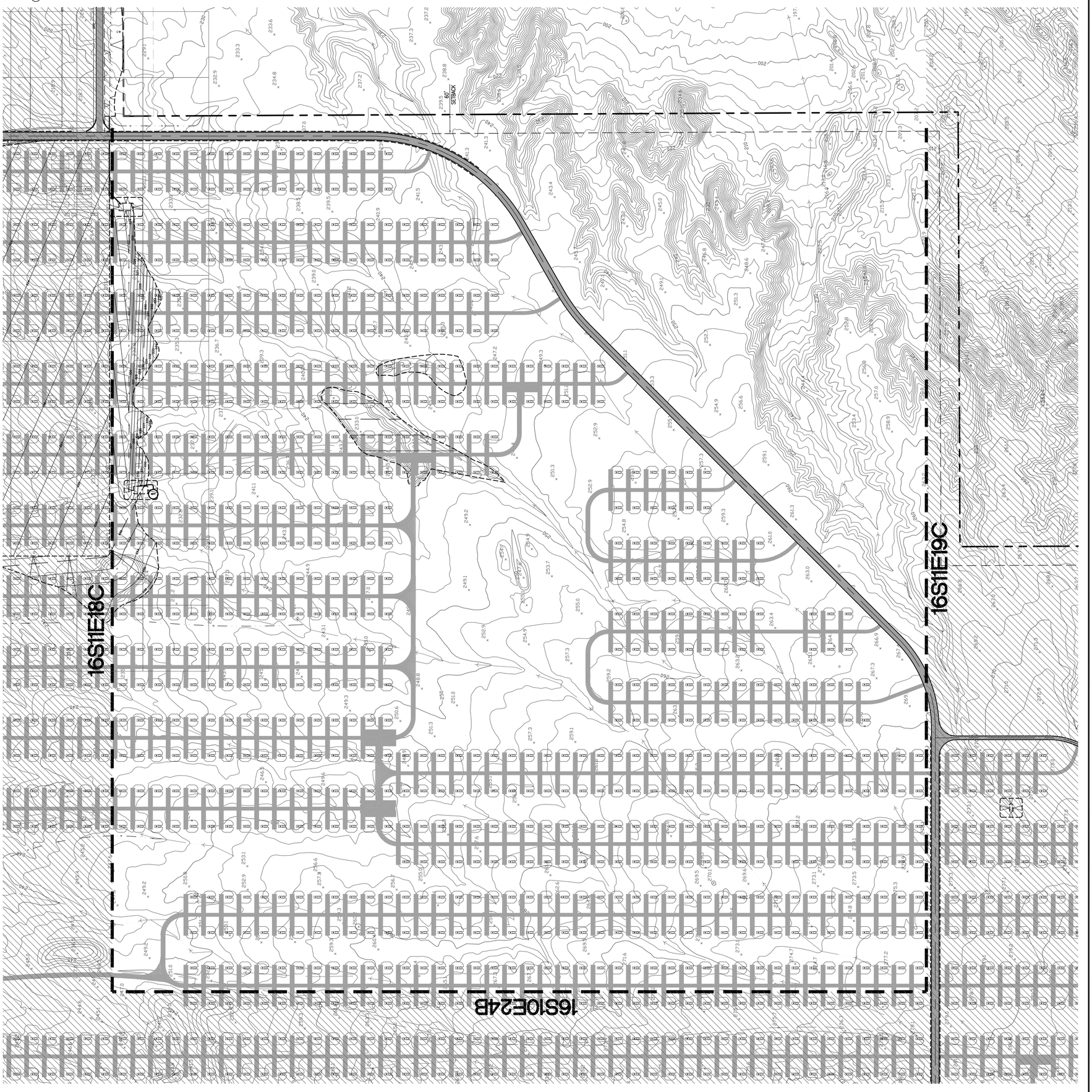
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

(IN FEET)
1 inch = 120 ft.



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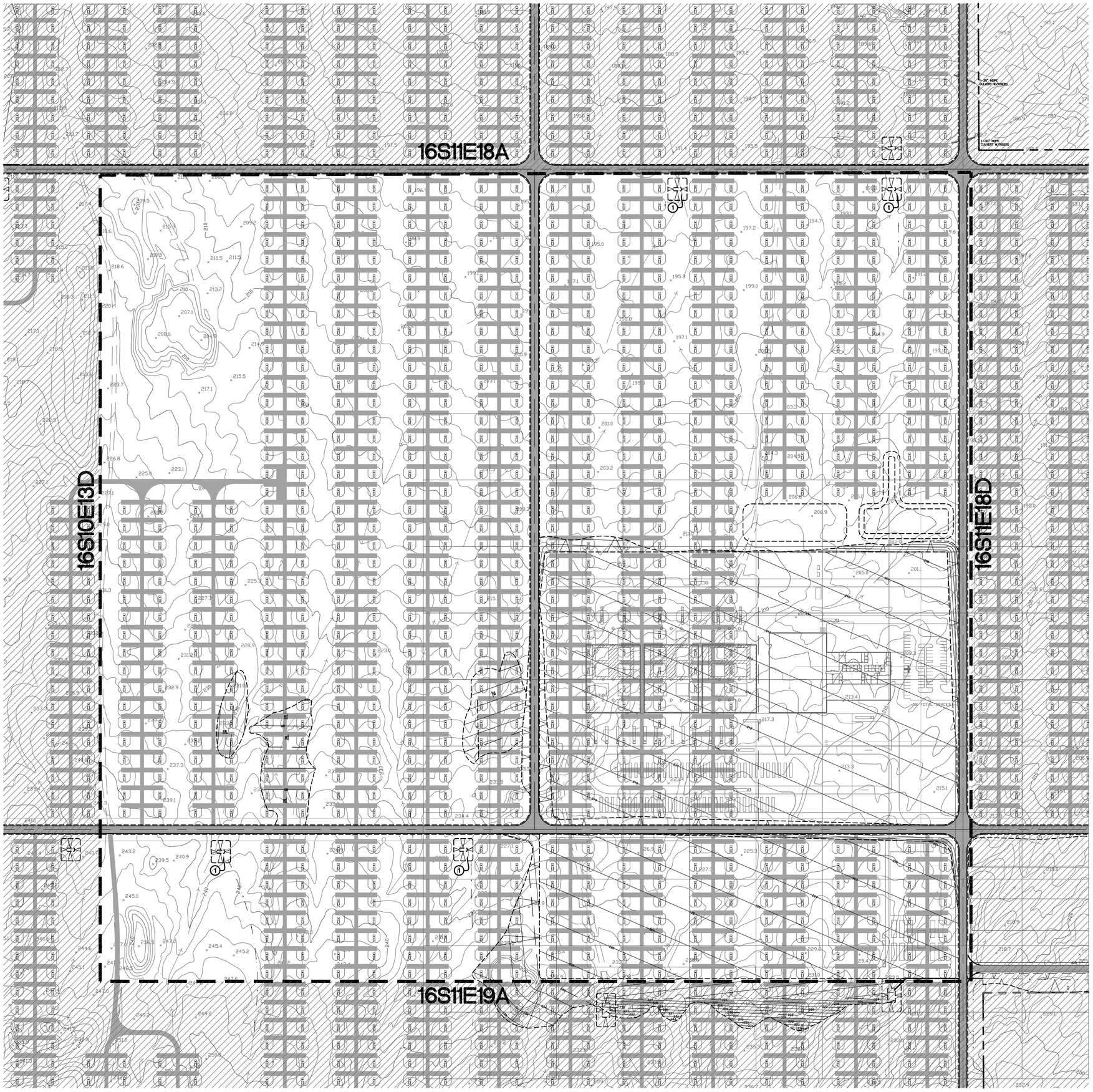

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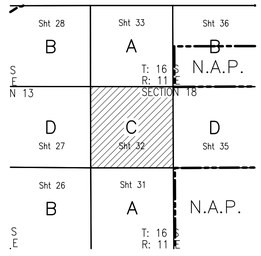


PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E18C

SES Stirling Energy Systems

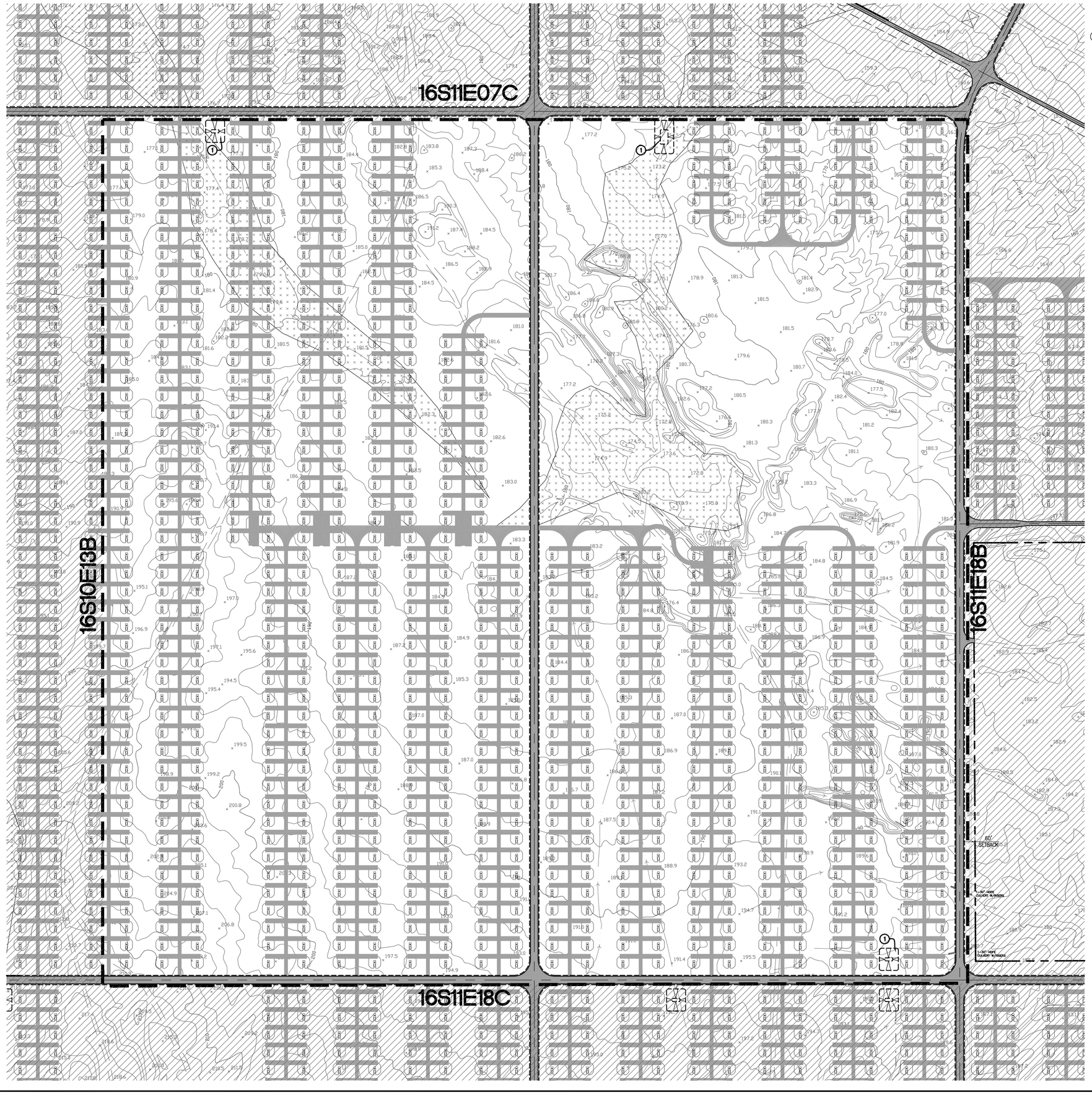
SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 32 | REV. B

PROJECT: 20000268011 | CAD FILE: EC-16S11E18C.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.



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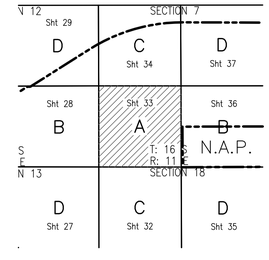

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E18A

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	33	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E18A.dwg

STANTEC CONSULTING INC.
2586 4F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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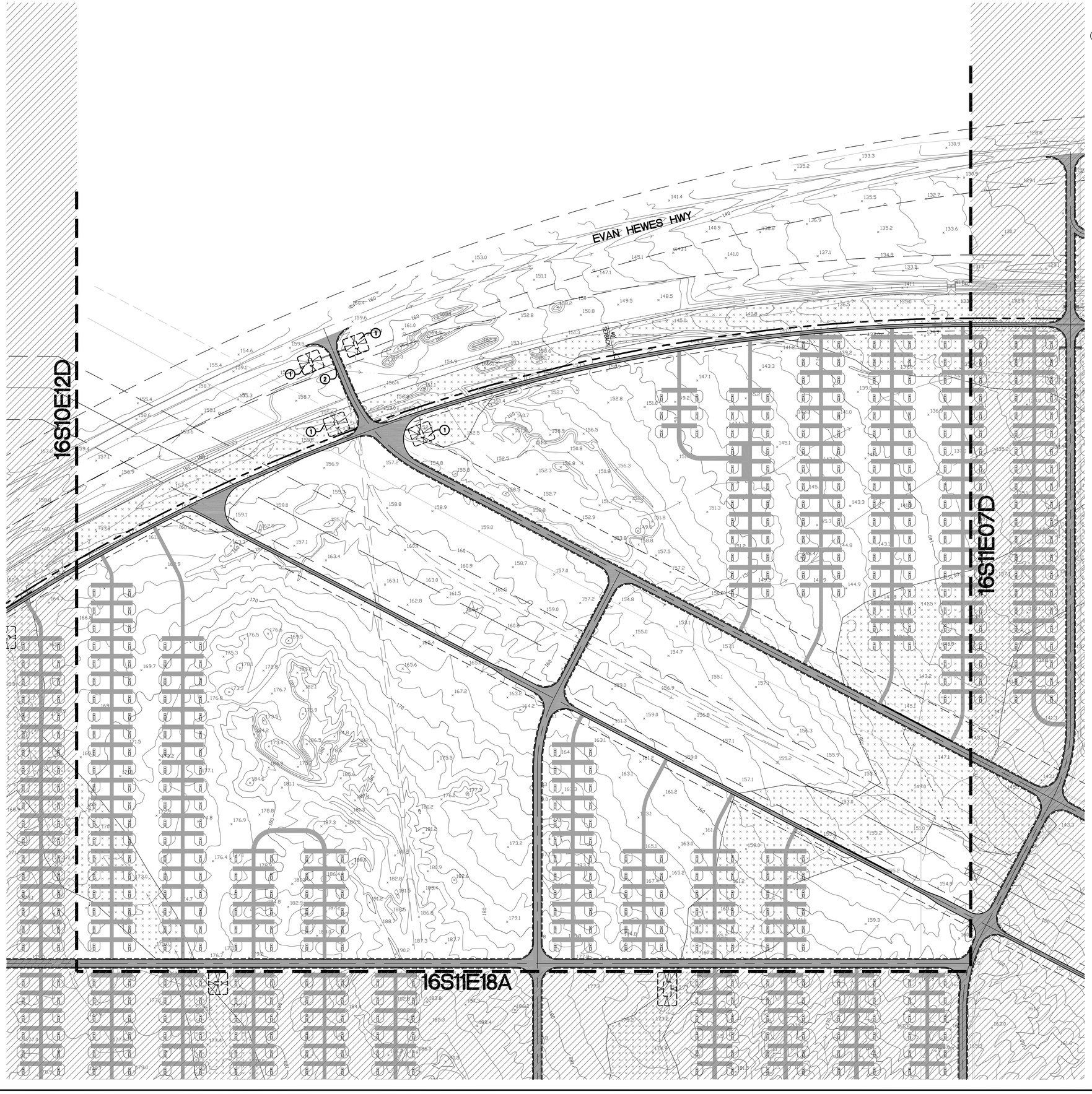

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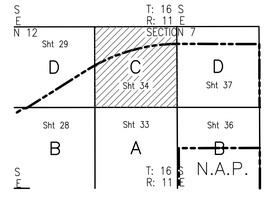
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E07C

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 34 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S11E07C.dwg

STANTEC CONSULTING INC.
2586 4F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120' | DRN. TB/CT/RB | DES. PK/SD | APP. NJA | CHK. PK/NJA | DATE 10/17/08 | DATE 10/17/08

NO.	DATE	BY	APP.

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TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E18D

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 35 | REV: B

SES Stirling Energy Systems

STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08	PROJECT: 200002680	CAD FILE: EC-16S11E18D.dwg
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08		

NO.	DATE	BY	APP.

CONSTRUCTION NOTES:

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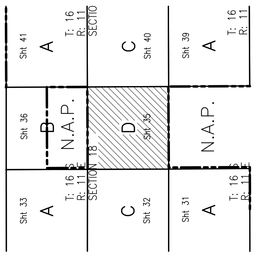
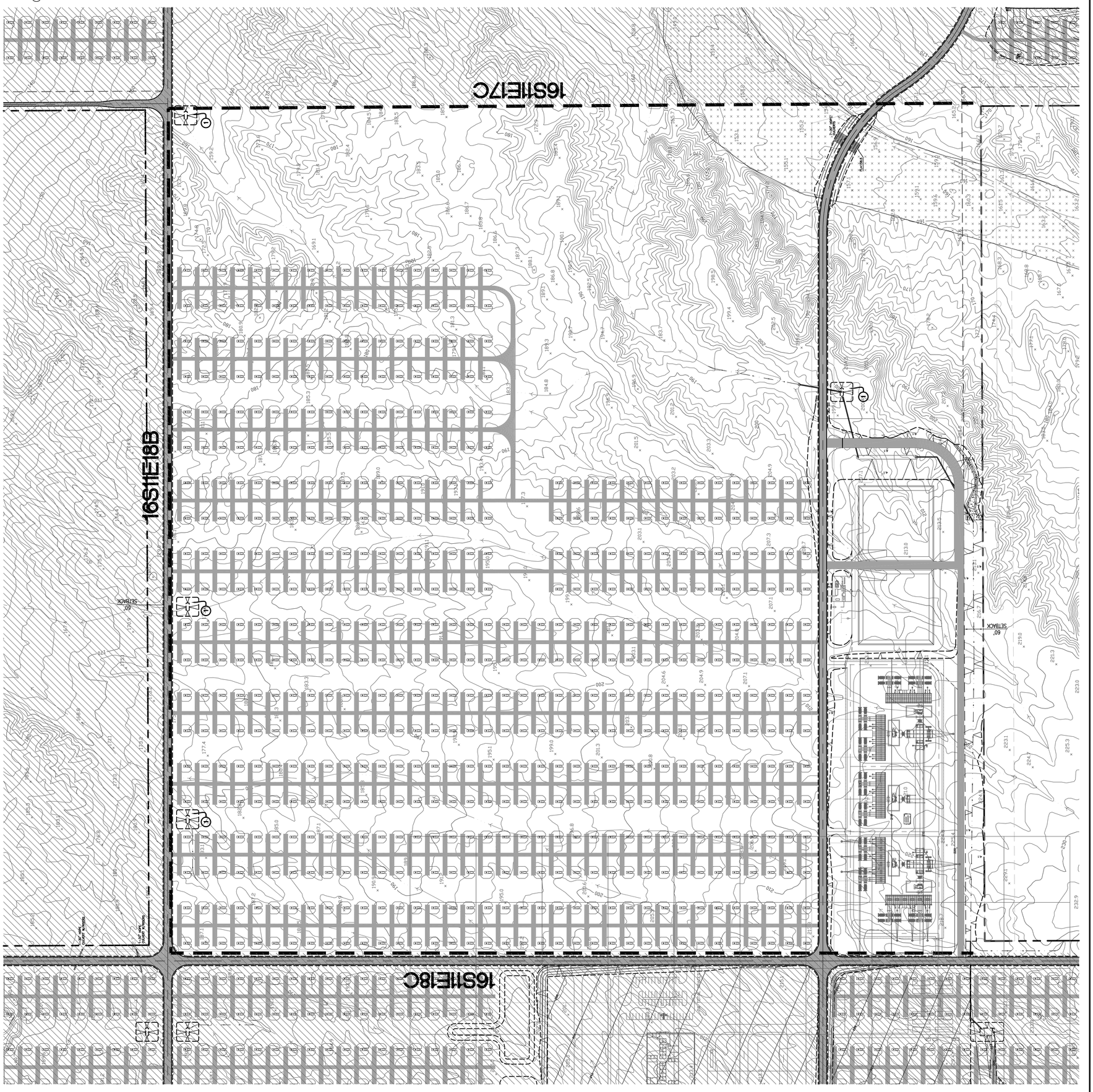
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE
(IN FEET)
1 inch = 120 ft.



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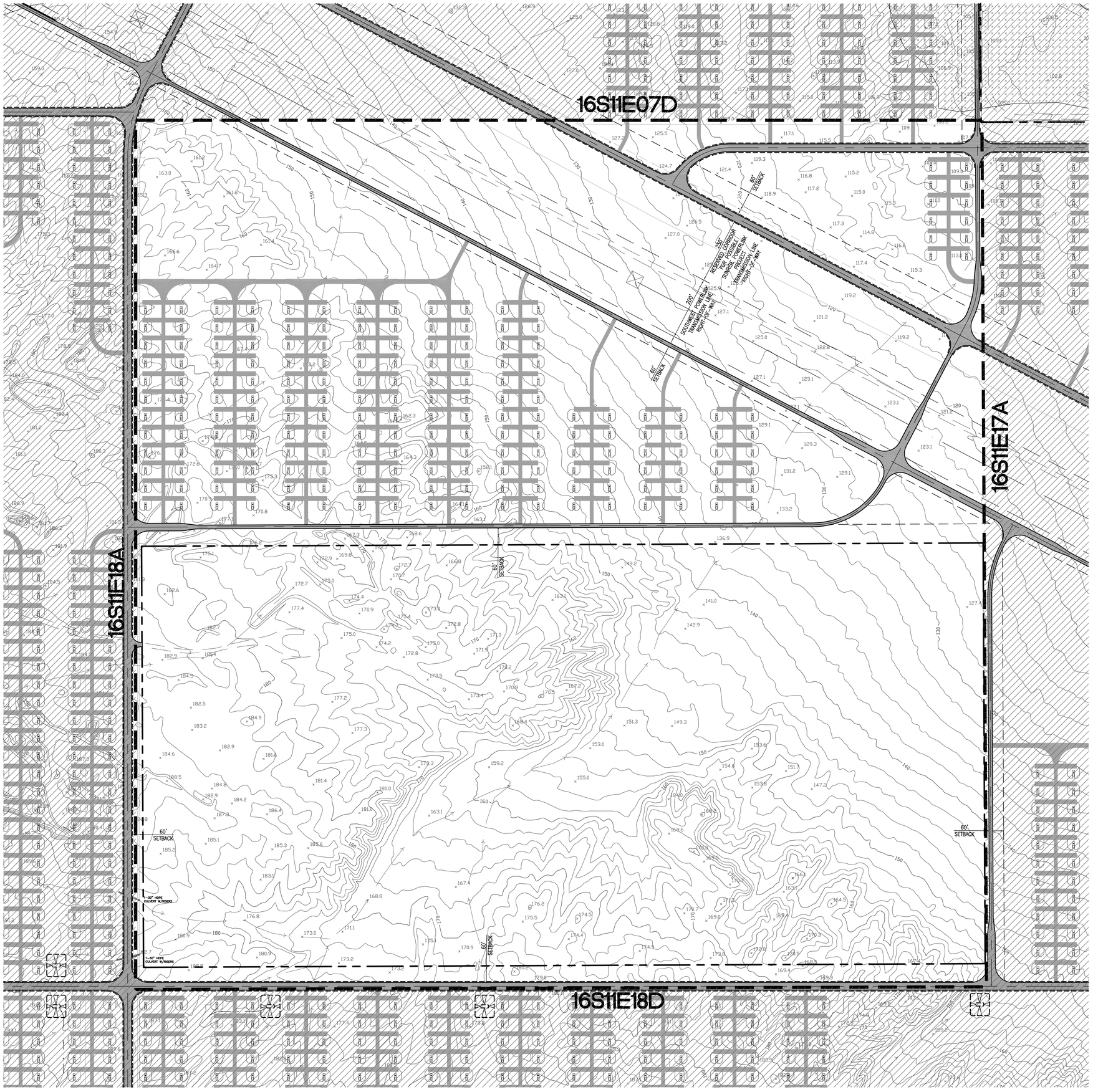

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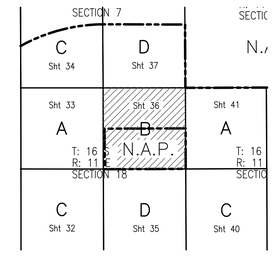


PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E18B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	36	B

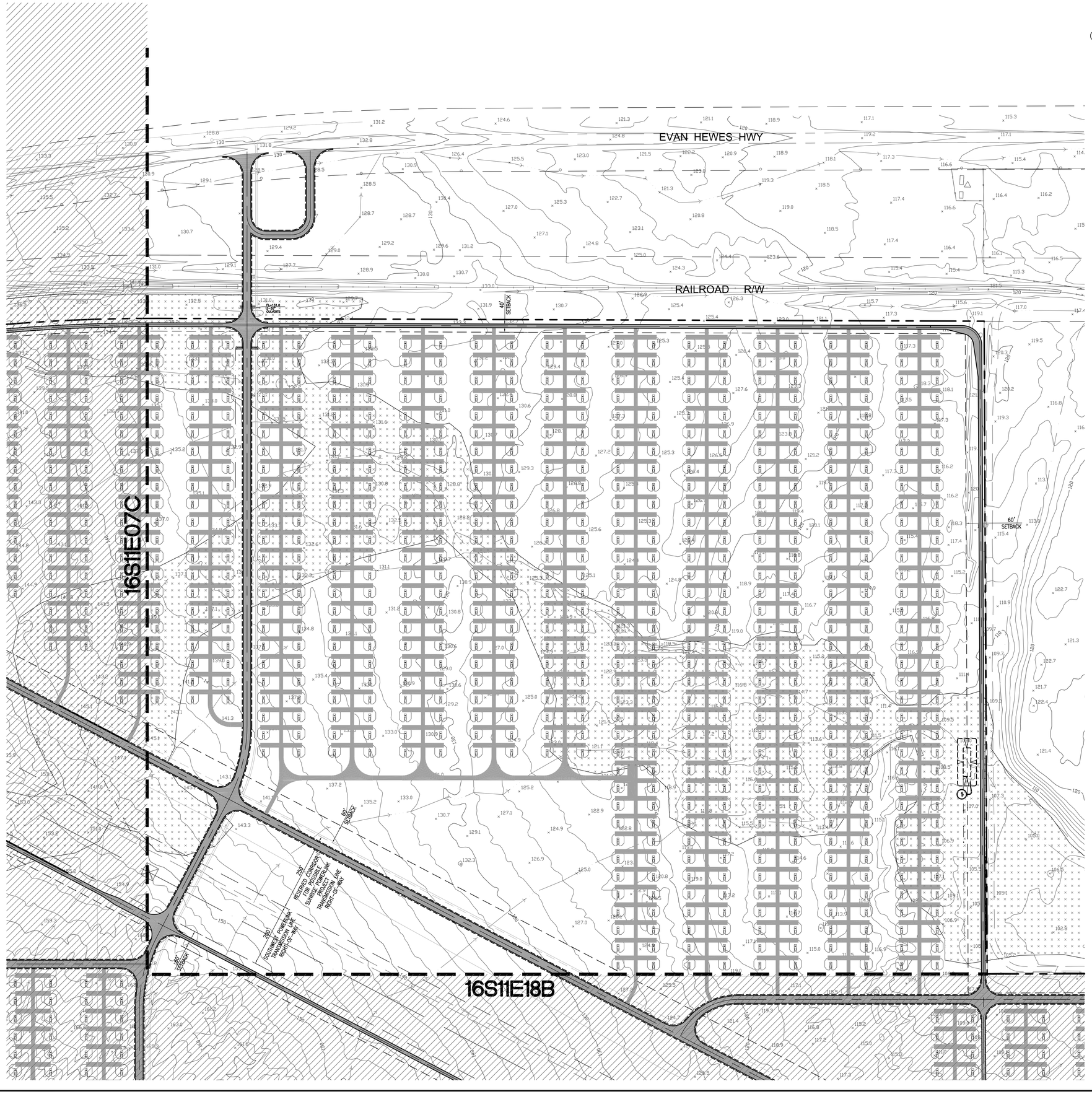
PROJECT:	CAD FILE:
2000026801	EC-16S11E18B.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	DRN.	DES.	APP.	CHK.	DATE
1" = 120'	TB/CT/RB	PK/SD	NJA	PK/NJA	10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e18b.dwg PLOTTED: 2/4/2009 2:00 AM BY: Brees, Ron



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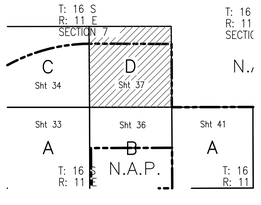
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E07D

SES Stirling Energy Systems

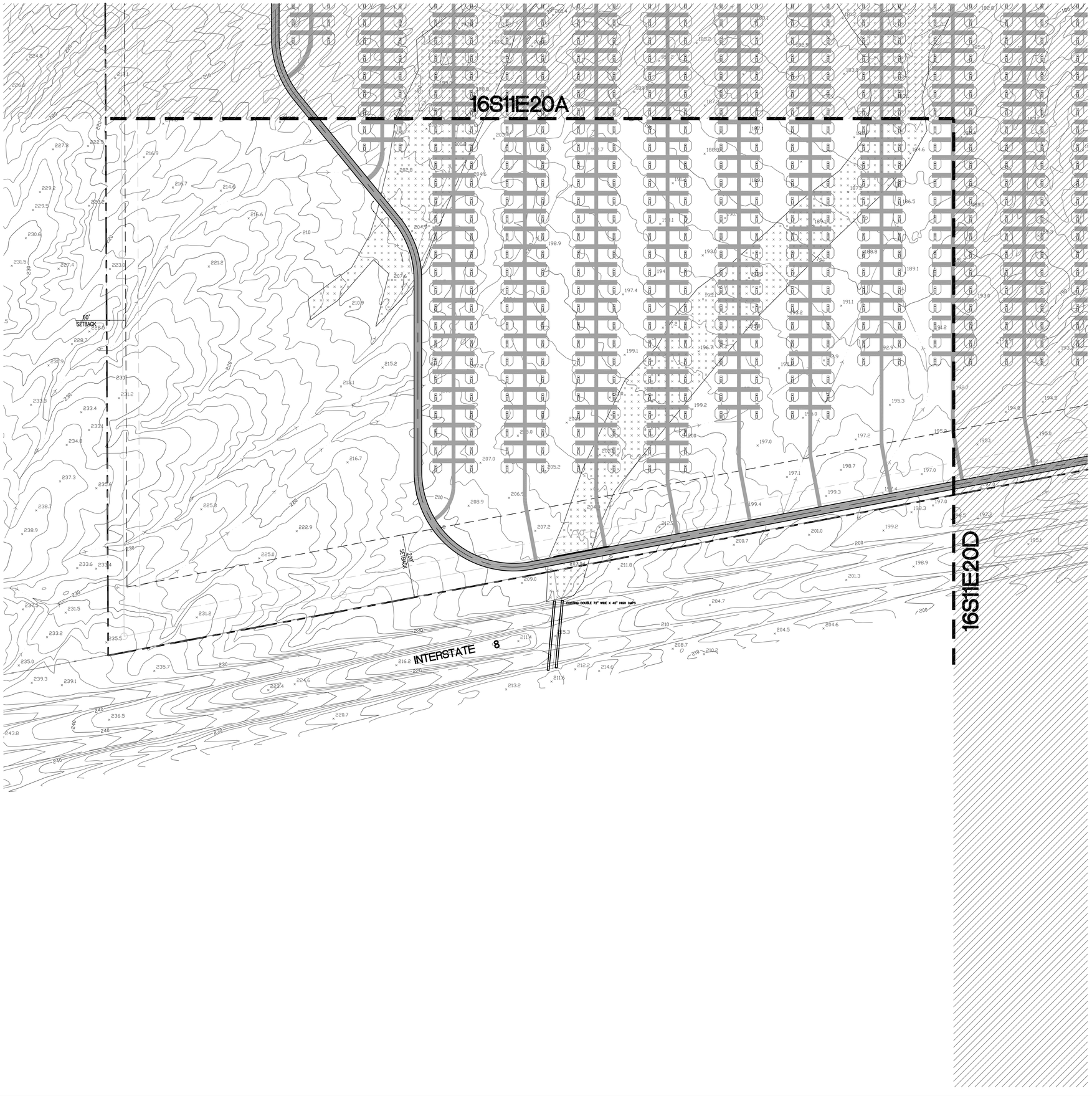
SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 37
REV. B

PROJECT: 2000026801
CAD FILE: EC-16S11E07D.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116

SCALE 1" = 120'
DRN. TB/CT/RB
DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.



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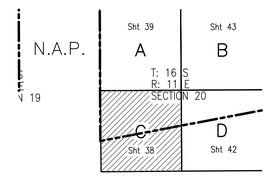

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
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TITLE: SES SOLAR TWO LLC
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EROSION CONTROL PLAN
16S11E20C

SES Stirling Energy Systems

SHEET SIZE:	Arch E1 (30x42)
DWG:	S2-C0623
SHT.	38
REV.	B
PROJECT:	20000268801
CAD FILE:	EC-16S11E20C.dwg
DATE	10/17/08
DATE	10/17/08

STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
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Stantec

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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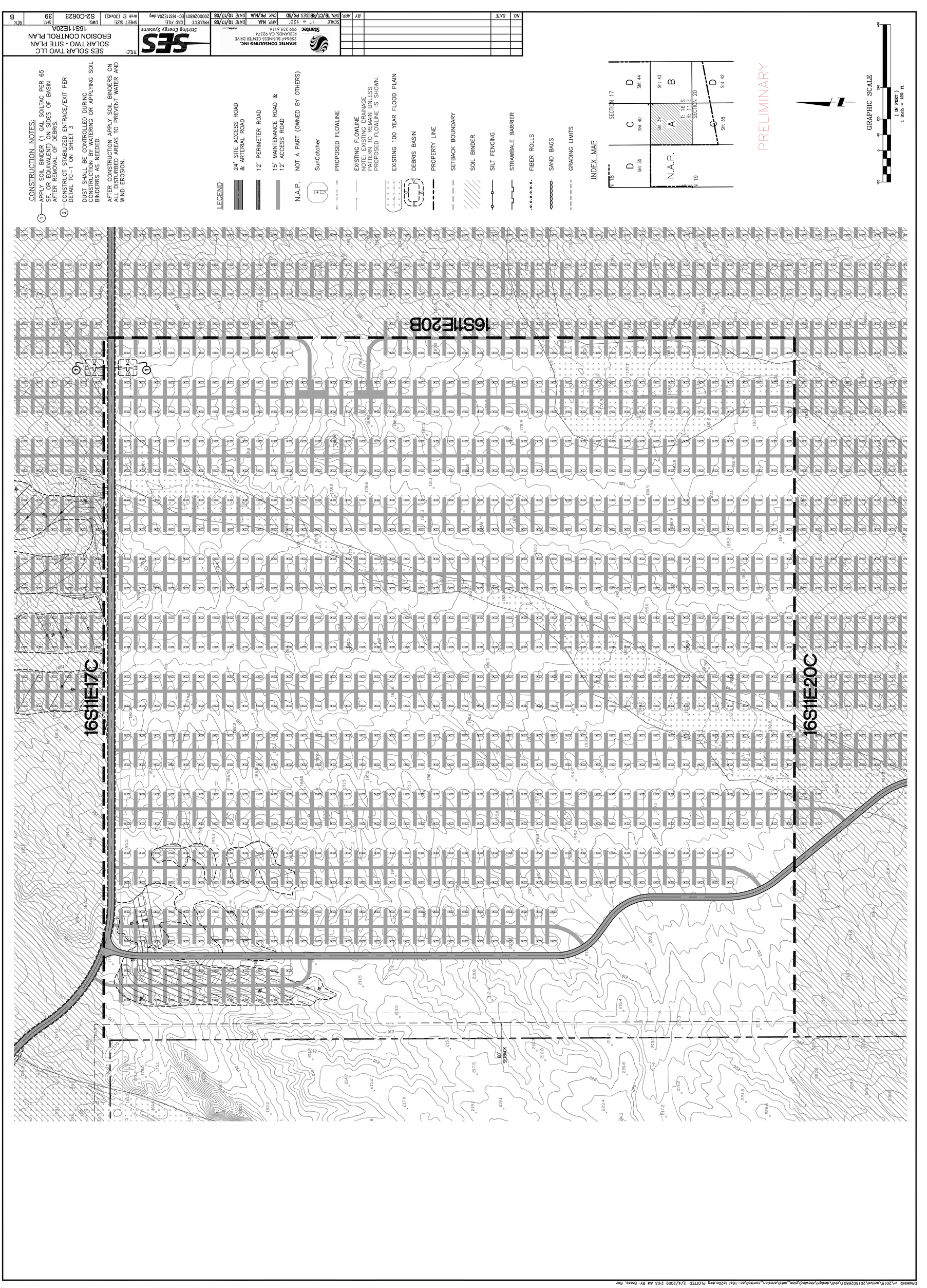


TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E20A

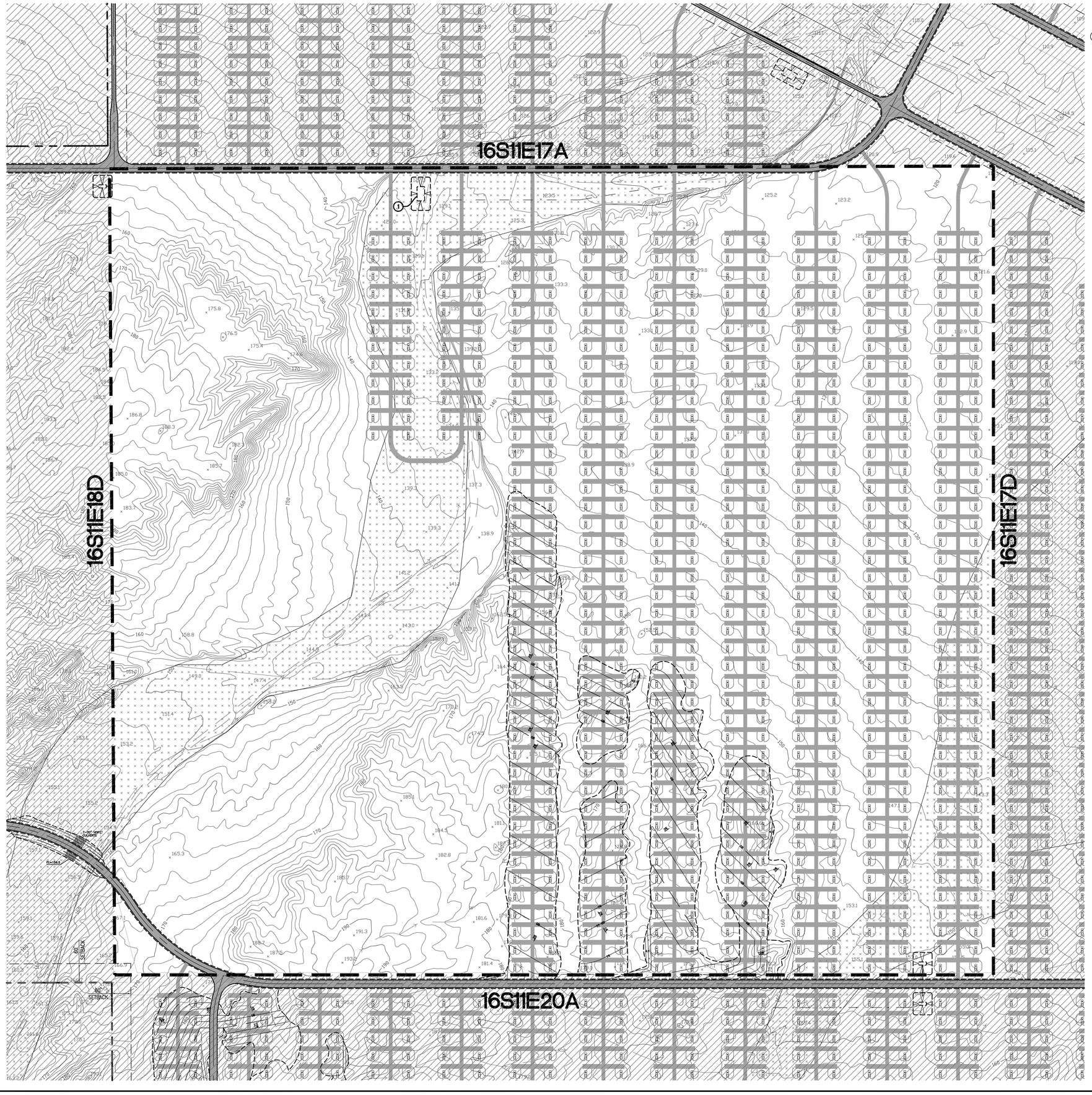
SES Stirling Energy Systems

STANTEC CONSULTING INC.
25864 BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116

SCALE	1" = 120'	APP. NJA	DATE 10/17/08	PROJECT: 200002680	CAD FILE: EC-16S11E20A.dwg	SHEET SIZE: Arch E1 (30x42)	DWG: S2-C0623	SHT. 39	REV. B
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08						

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e20a.dwg PLOTTED: 2/4/2009 2:03 AM BY: Brees, Ron



CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

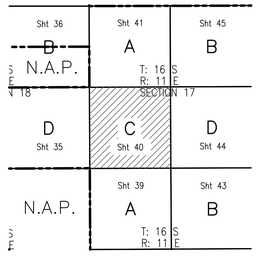
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E17C

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	40	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E17C.dwg

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Stantec

SCALE	DATE	DRN.	CHK.	APP.	DES.
1" = 120'	10/17/08	TB/CT/RB	PK/SD	NJA	PK/NJA

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e17c.dwg PLOTTED: 2/4/2009 2:03 AM BY: Brees, Ron

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E17A

SES Stirling Energy Systems

STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116

SCALE	1" = 120'	APP. NJA	DATE 10/17/08	PROJECT:	CAD FILE:	SHEET SIZE:	DWG:	SHT.	REV.
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08	2000026801	EC-16S11E17A.dwg	Arch E1 (30x42)	S2-C0623	41	B

NO.	DATE		BY	APP.

CONSTRUCTION NOTES:

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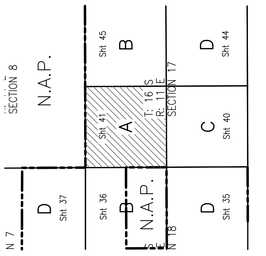
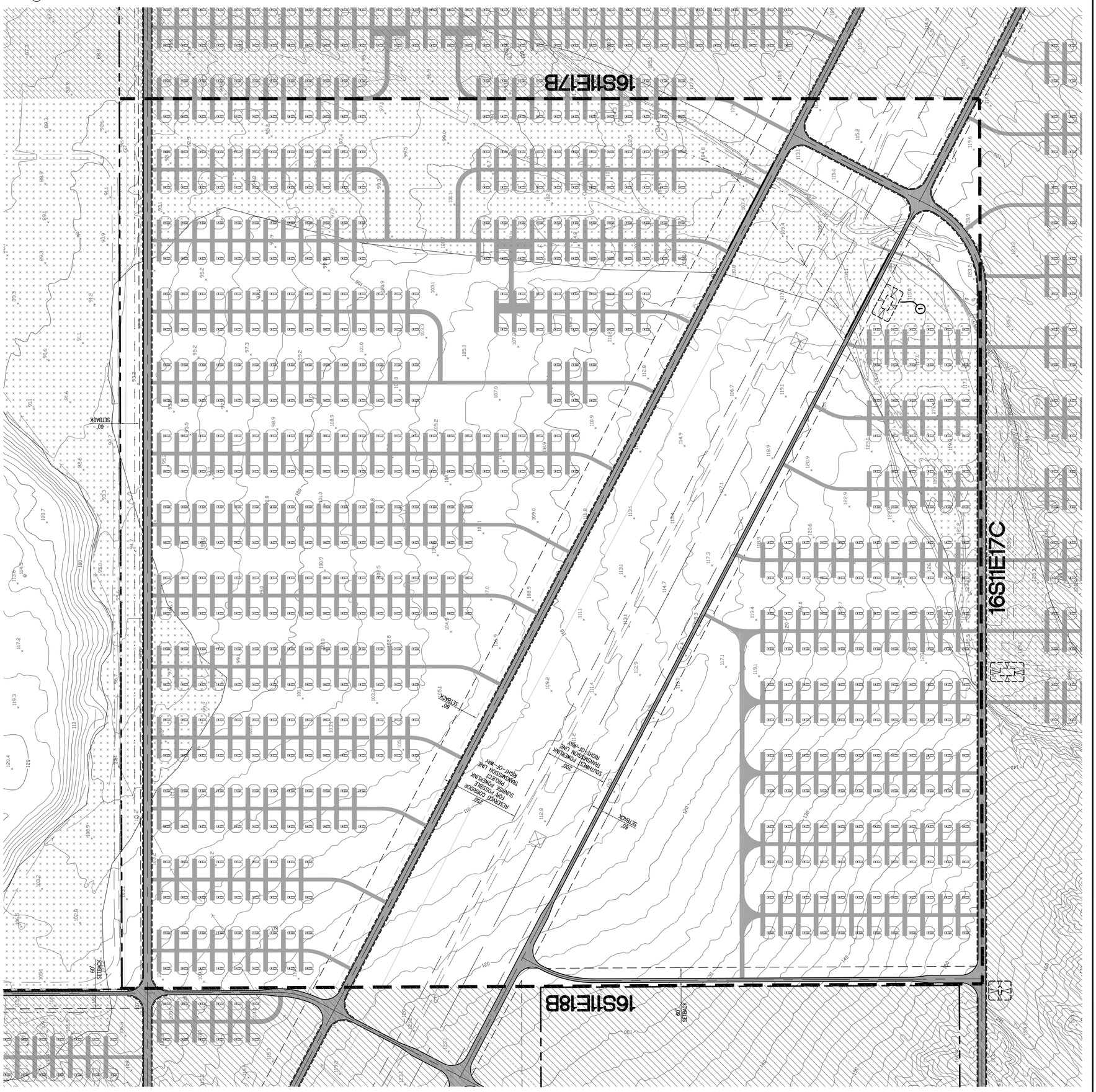
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE
(IN FEET)
1 inch = 120 ft.



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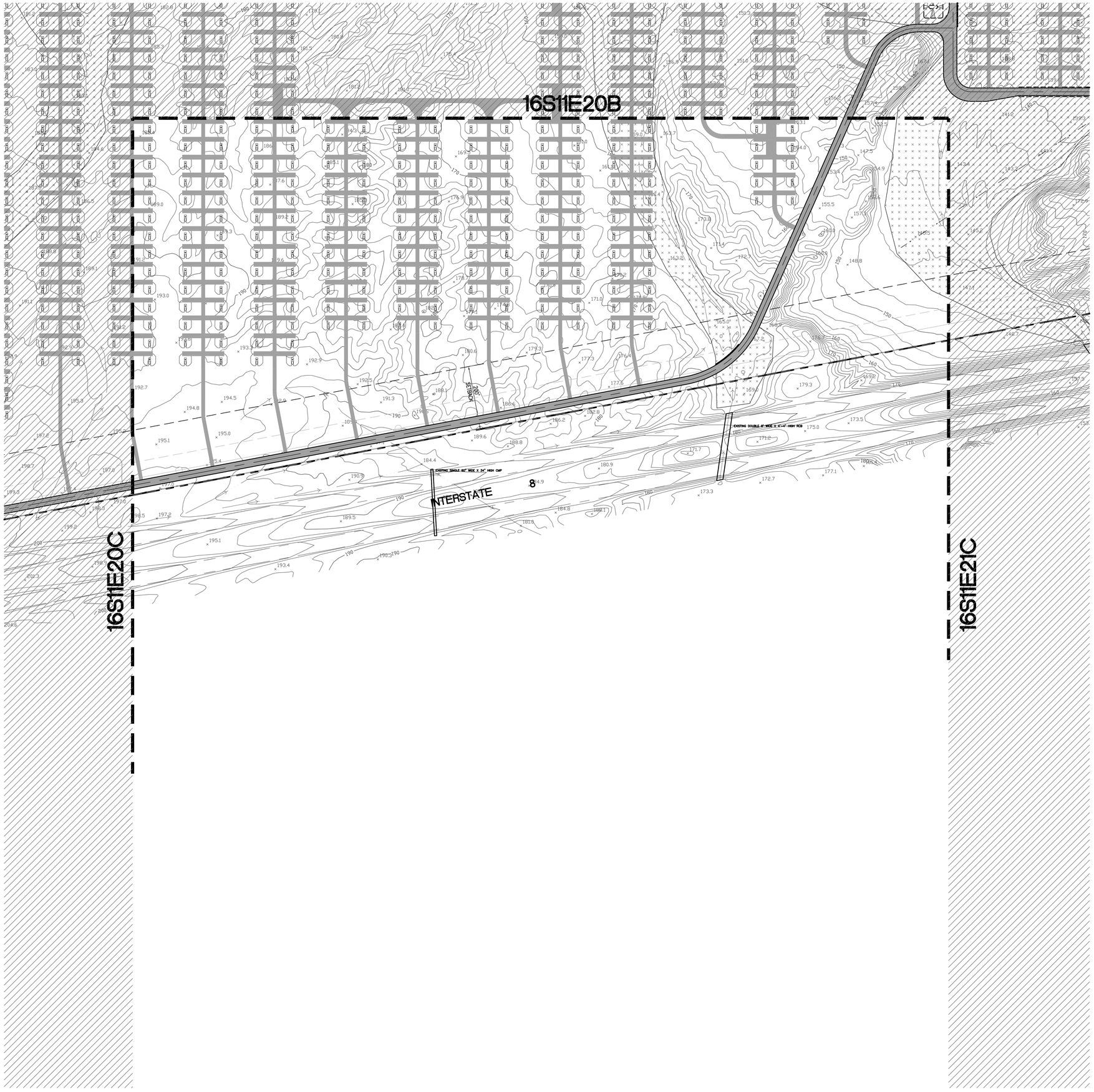

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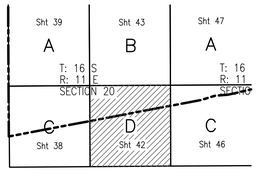
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E20D

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 42
REV. B

PROJECT: 2000026801
CAD FILE: EC-16S11E20D.dwg

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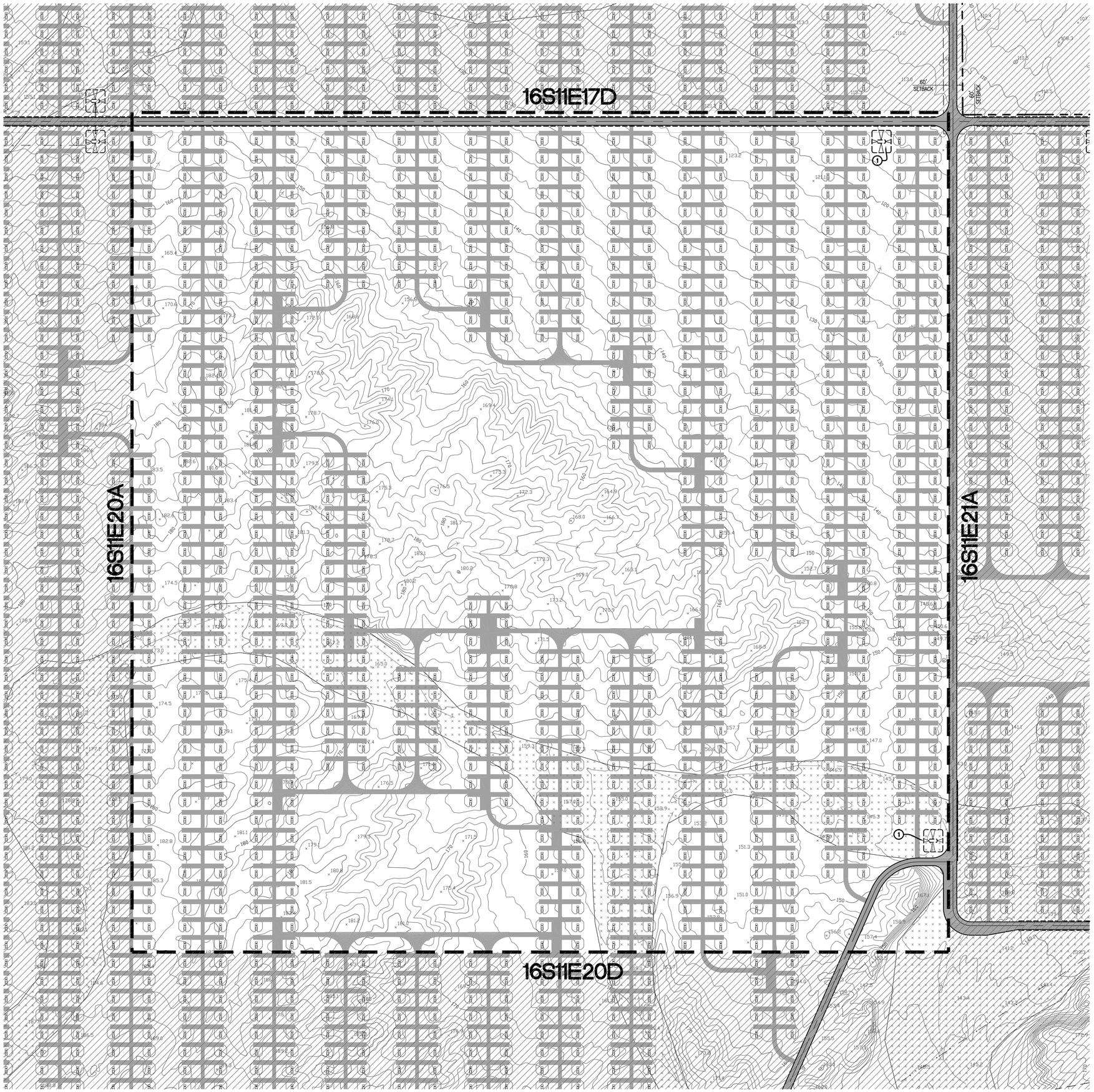
SCALE 1" = 120'
DRN. TB/CT/RB
DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.



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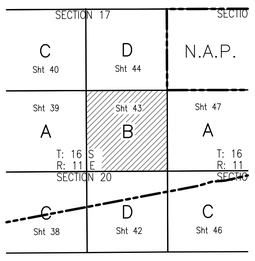
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E20B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	43	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E20B.dwg

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SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

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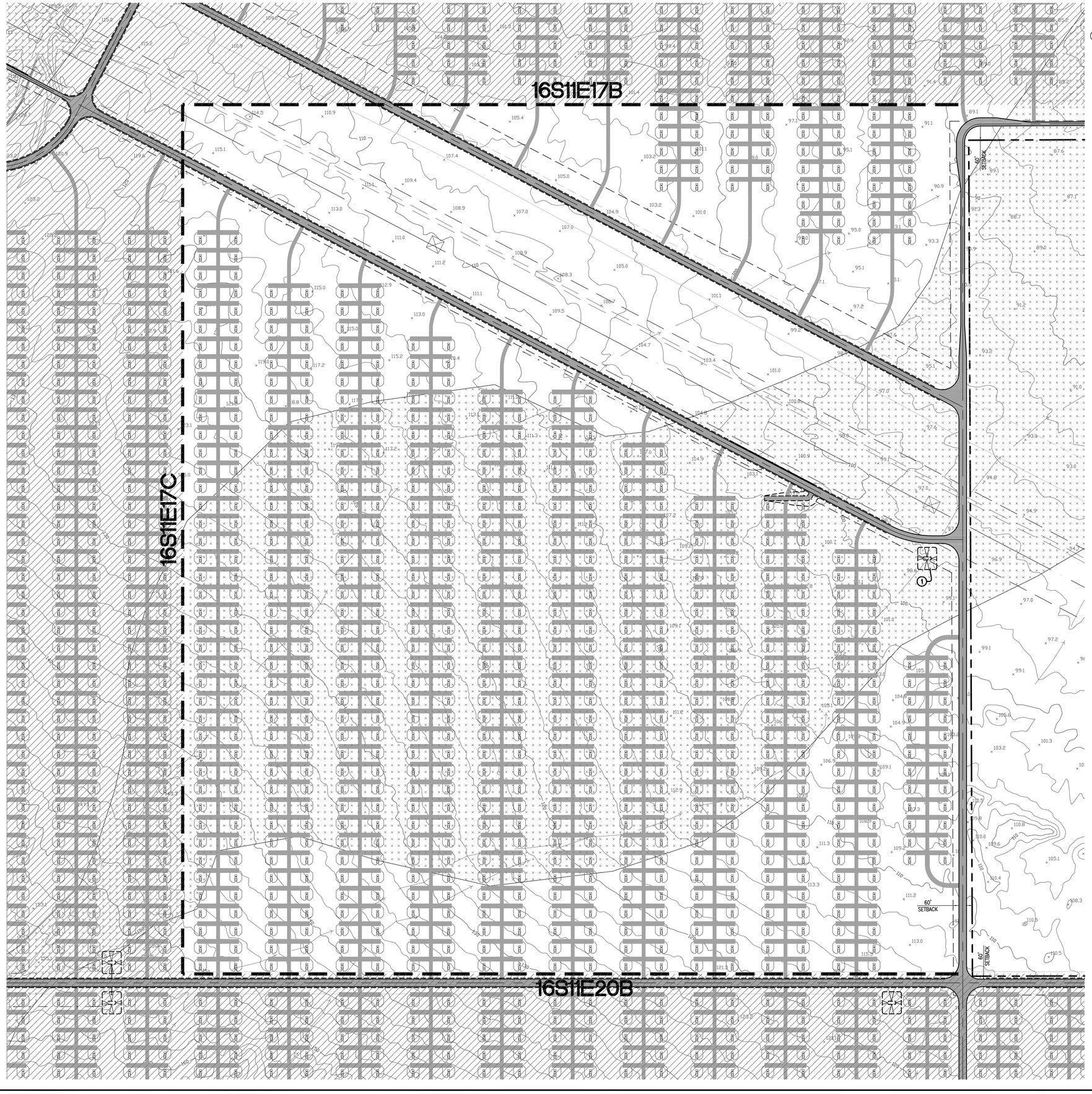

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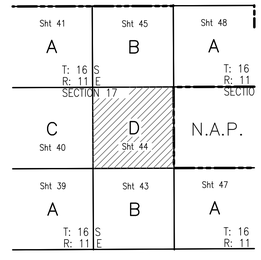
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

NO.	DATE	BY	APP

STANTEC CONSULTING INC.
2364 ATLANTIC CENTER DRIVE
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(909) 335-1555 www.stantec.com

Stantec | SCALE: 1" = 120' | DRN: TB/CC/RB | DES: RK/SD | APP: NJA | CHK: RK/NJA | DATE: 10/17/08 | DATE: 10/17/08

SES
Stirling Energy Systems

PROJECT: 200002680 | CAD FILE: EC-16S11E17D.dwg | SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 44 | REV: B

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E17D

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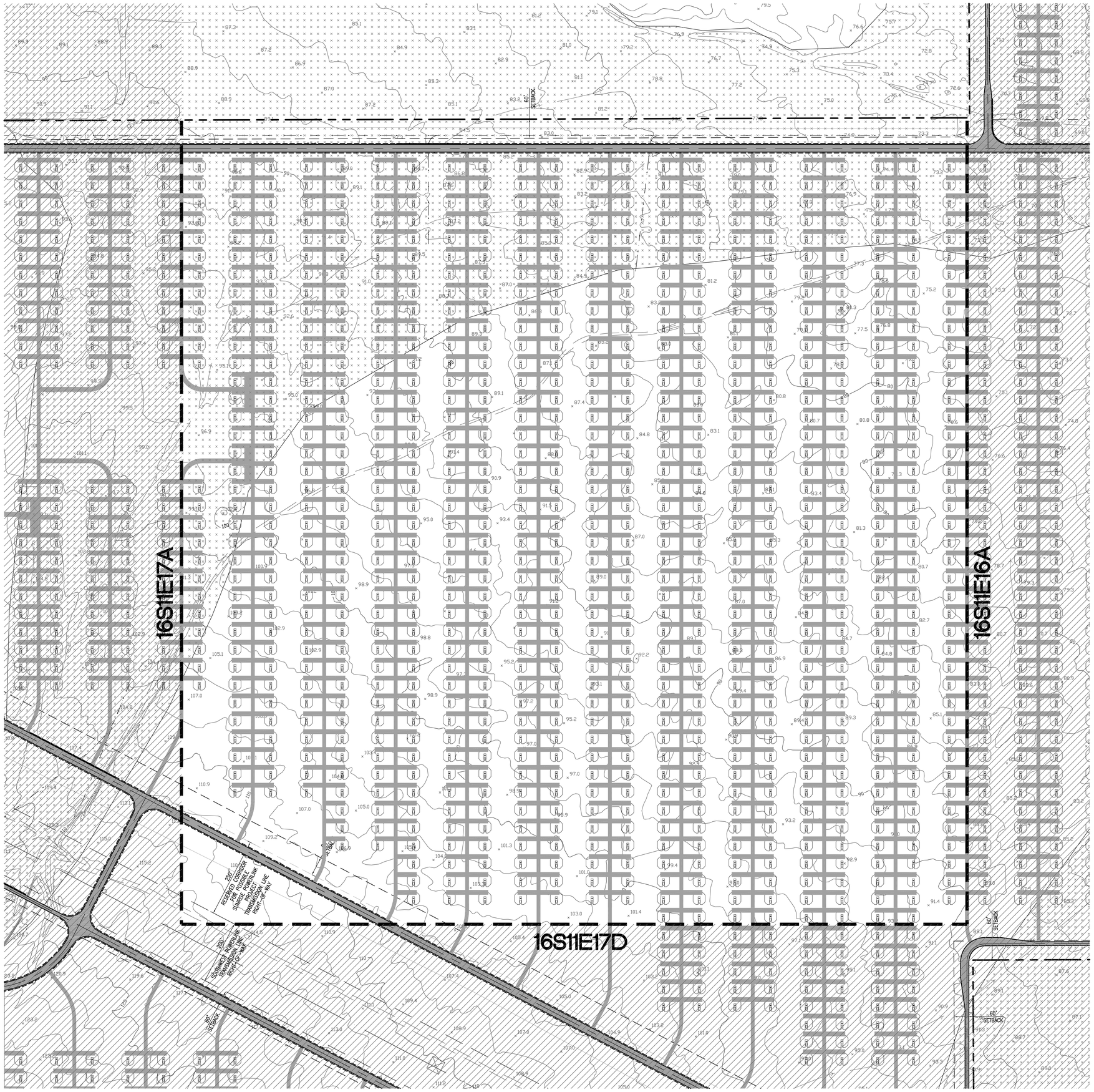

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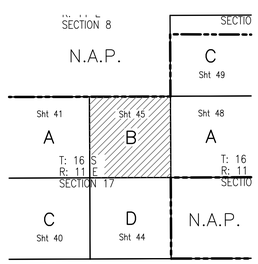
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E17B

SES Stirling Energy Systems

PROJECT:	CAD FILE:	SHEET SIZE:	DWG:	SHT.	REV.
2000026801	EC-16S11E17B.dwg	Arch E1 (30x42)	S2-C0623	45	B

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REDLANDS, CA 92374
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SCALE	DRN.	DES.	APP.	CHK.	DATE
1" = 120'	TB/CT/RB	PK/SD	NA	PK/NA	10/17/08

NO.	DATE	BY	APP.

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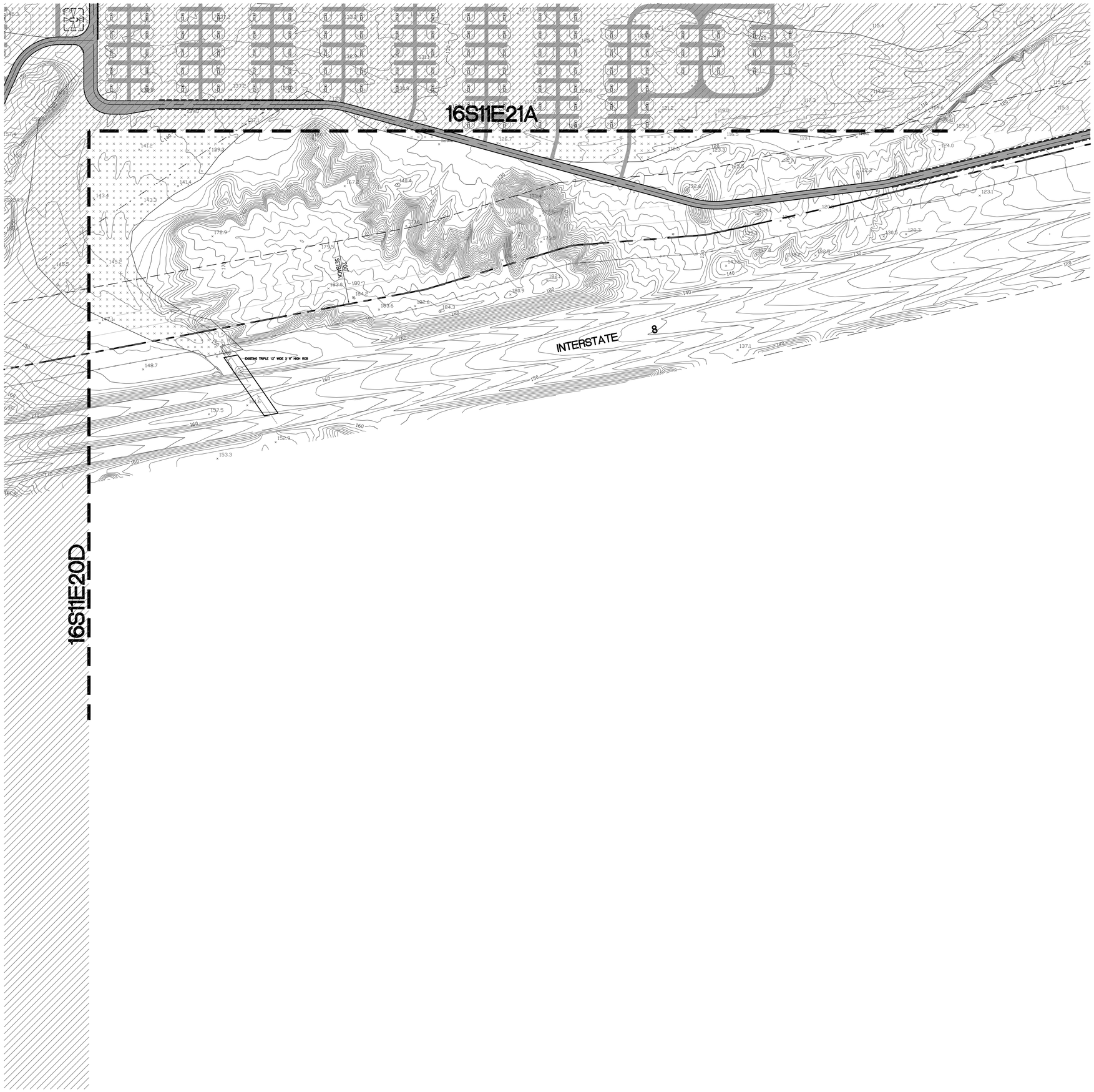

CONSTRUCTION NOTES:

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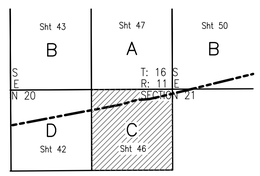
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E21C

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 46 | REV: B

CAD FILE: EC-16S11E21C.dwg | PROJECT: 20000268801 | DATE: 10/17/08

STANTEC CONSULTING INC.
2386AE BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555 www.stantec.com

Stantec | SCALE: 1" = 120' | DRN: TB/CC/RB | DES: PK/SD | APP: NJA | CHK: PK/NJA | DATE: 10/17/08

NO.	DATE	BY	APP

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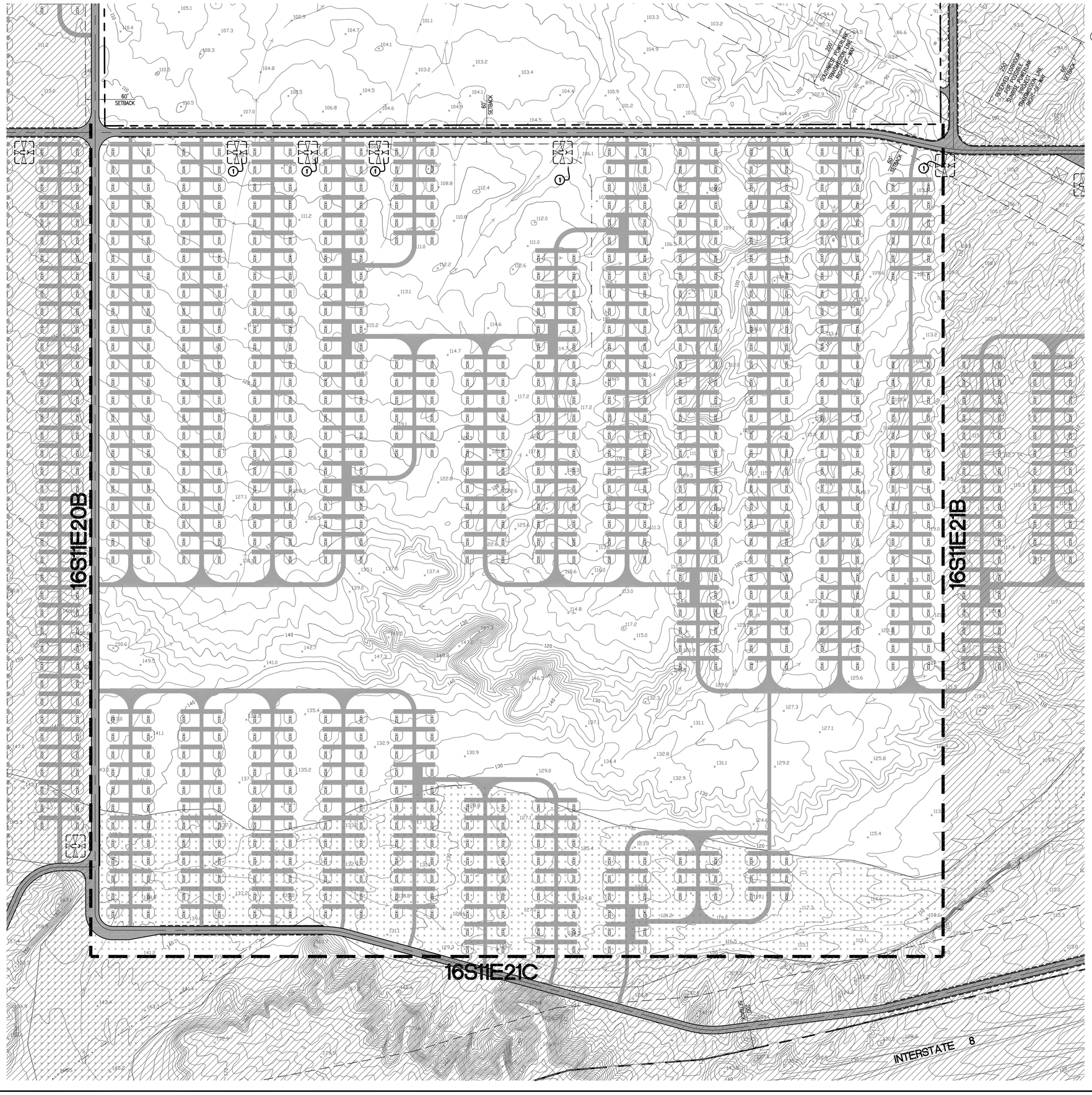

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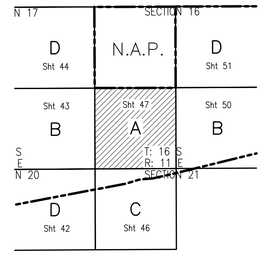
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E21A

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	47	B

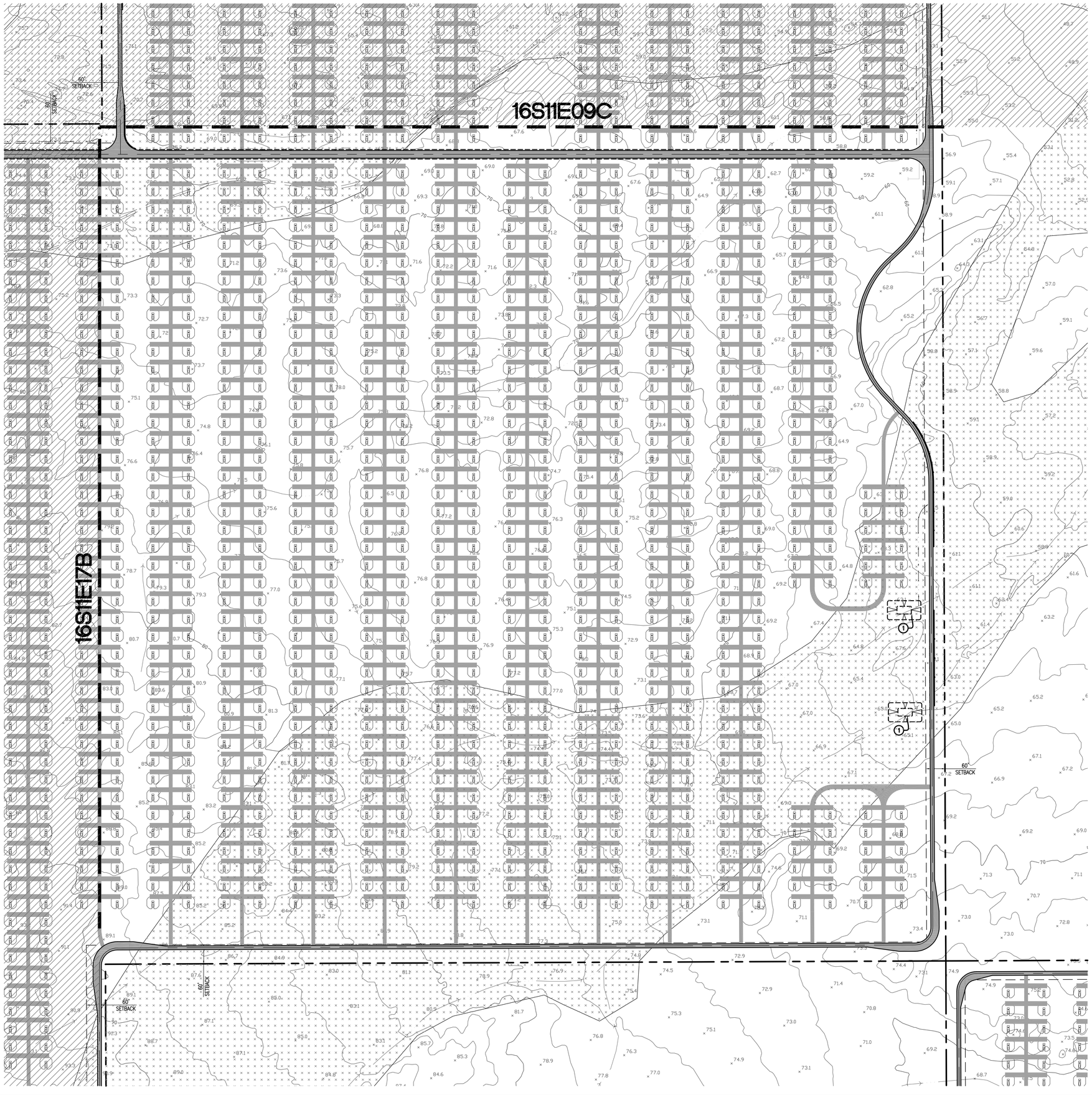
PROJECT:	CAD FILE:
2000026801	EC-16S11E21A.dwg

STANTEC CONSULTING INC.
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP.	NJA	DATE	10/17/08
DRN.	TB/CT/RB	DES.	PK/SD	CHK.	PK/NJA

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e21a.dwg PLOTTED: 2/4/2009 2:09 AM BY: Brees, Ron



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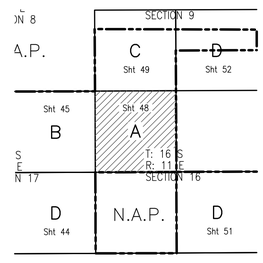
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E16A

SES Stirling Energy Systems

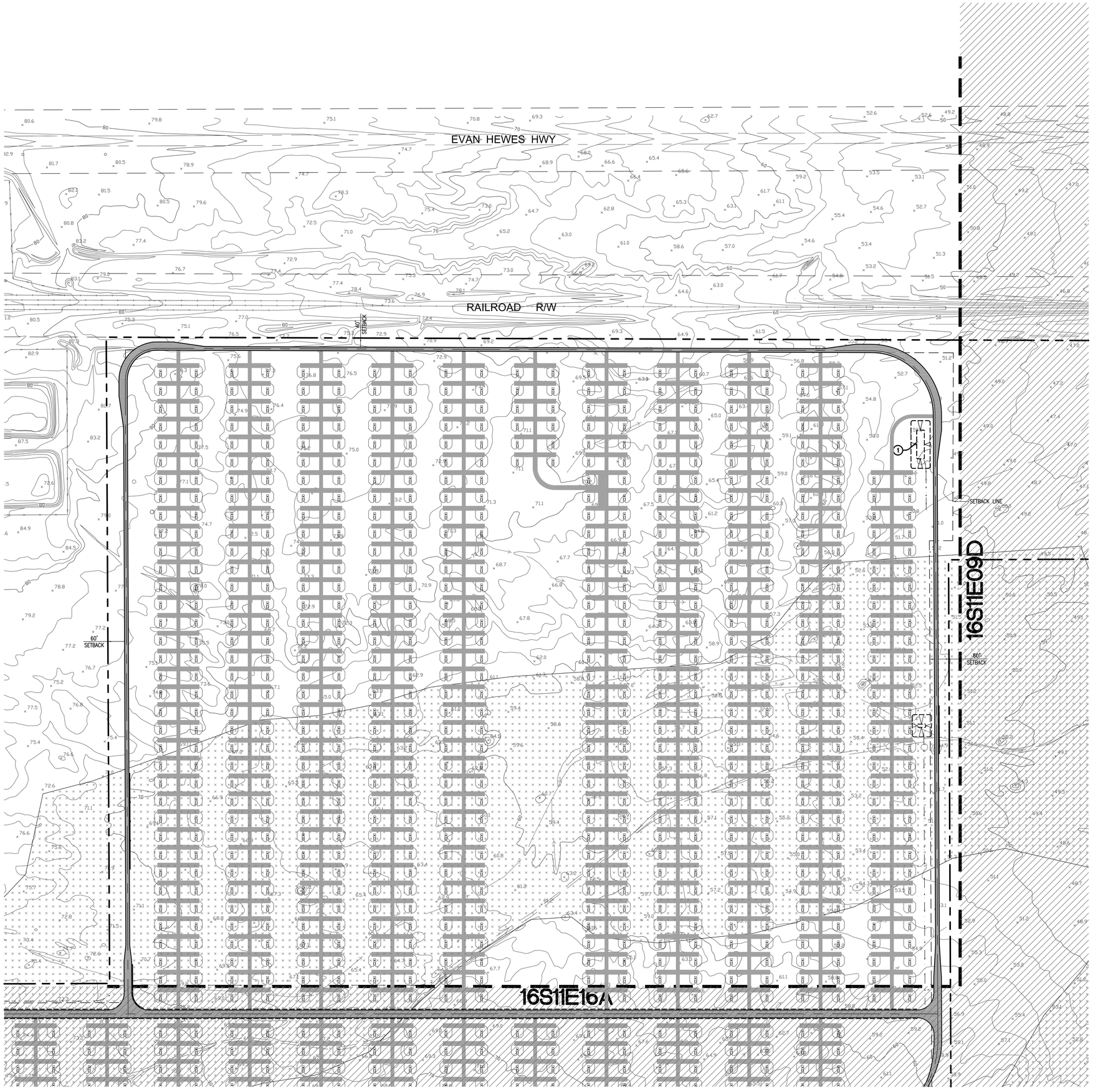
SHEET SIZE: Arch E1 (30x42)	DWG: S2-C0623	SHT. 48	REV. B
PROJECT: 2000026801	CAD FILE: EC-16S11E16A.dwg		

STANTEC CONSULTING INC.
2586&F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120'	APP. NJA	DATE 10/17/08	
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e16a.dwg PLOTTED: 2/4/2009 2:10 AM BY: Brees, Ron



CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
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- PROPERTY LINE
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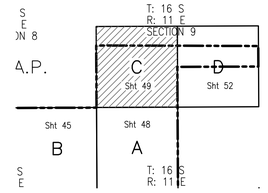
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E09C

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT. 49
REV. B

PROJECT: 2000026801
CAD FILE: EC-16S11E09C.dwg

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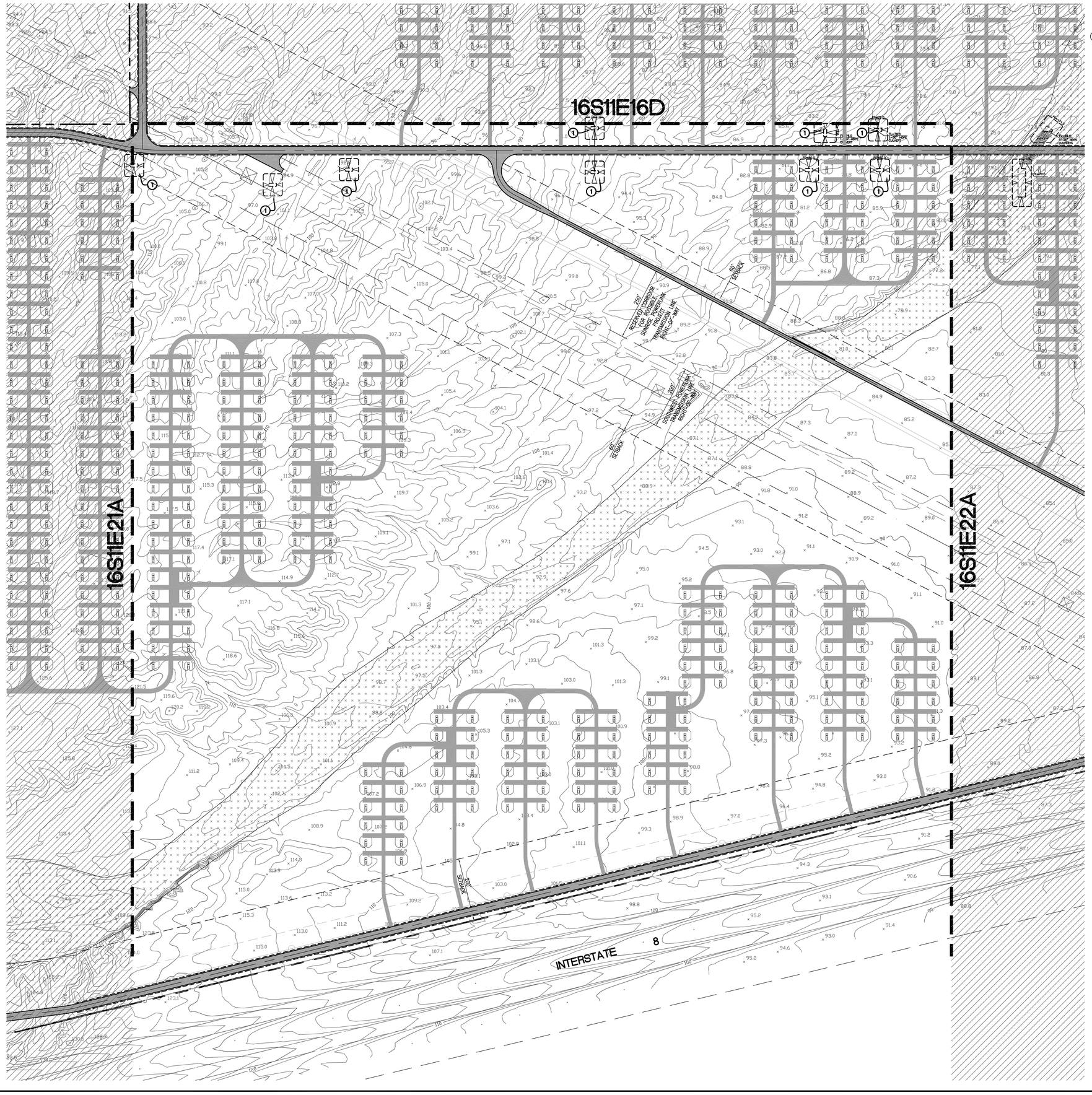
25864F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE 1" = 120'
DRN. TB/CT/RB
DES. PK/SD
APP. NJA
CHK. PK/NJA
DATE 10/17/08
DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e09c.dwg PLOTTED: 2/4/2009 2:10 AM BY: Brees, Ron



CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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LEGEND

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- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
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- EXISTING FLOWLINE
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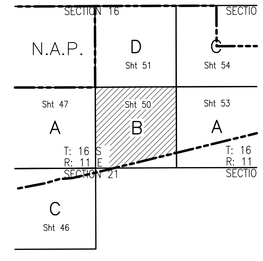
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E21B

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	50	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E21B.dwg

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stantec.com

SCALE	DATE	APP.	DATE
1" = 120'	10/17/08	NJA	10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e21b.dwg PLOTTED: 2/4/2009 2:11 AM BY: Brees, Ron

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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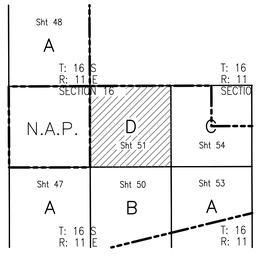
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

16S11E15C

16S11E21B

60' SETBACK

200' SOUTHERN CROSSING TRANSMISSION LINE RIGHT-OF-WAY

250' RESERVED CORRIDOR FOR SUNRISE POWERLINK TRANSMISSION PROJECT RIGHT-OF-WAY

STANTEC CONSULTING INC.
2364-E1 BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1556

SCALE: 1" = 120'	APP: NJA	DATE: 10/17/08
DRN: TB/CC/RB	CHK: RK/NJA	DATE: 10/17/08
DES: RK/SD		

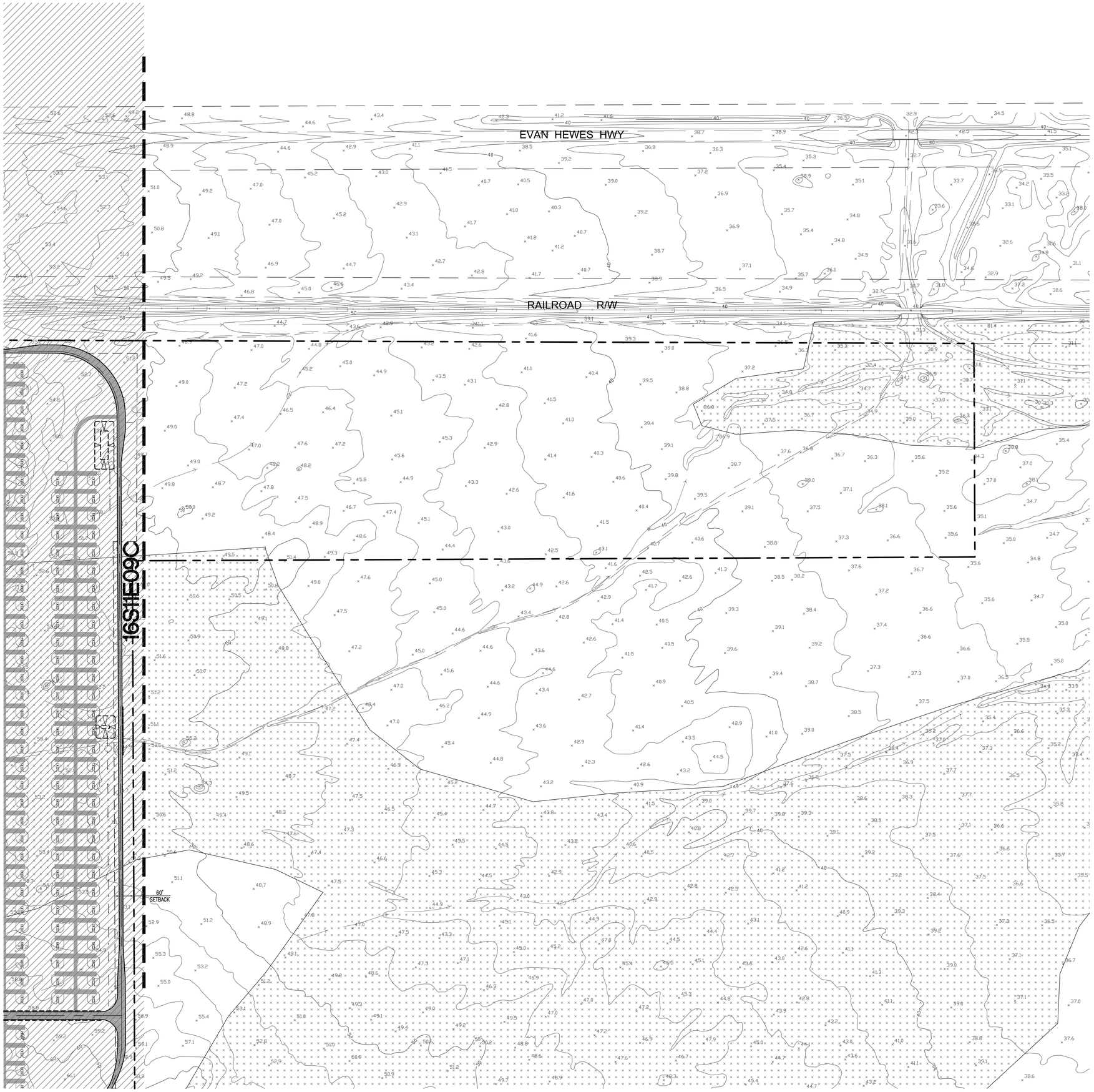
SES
Stirling Energy Systems

PROJECT: 200002680
CAD FILE: EC-16S11E16D.dwg
SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT: 51
REV: B

TITLE:
SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E16D

NO.	DATE	BY	APP

DRAWING: x:\2015\active\201502680\civil\design\drawing\plan_set\erosion_control\ec-16s11e16d.dwg PLOTTED: 2/4/2009 2:12 AM By: Bees, Ron



CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

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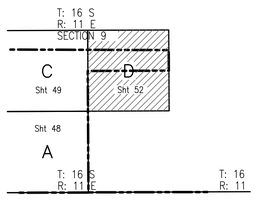
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E09D

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 52 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S11E09D.dwg

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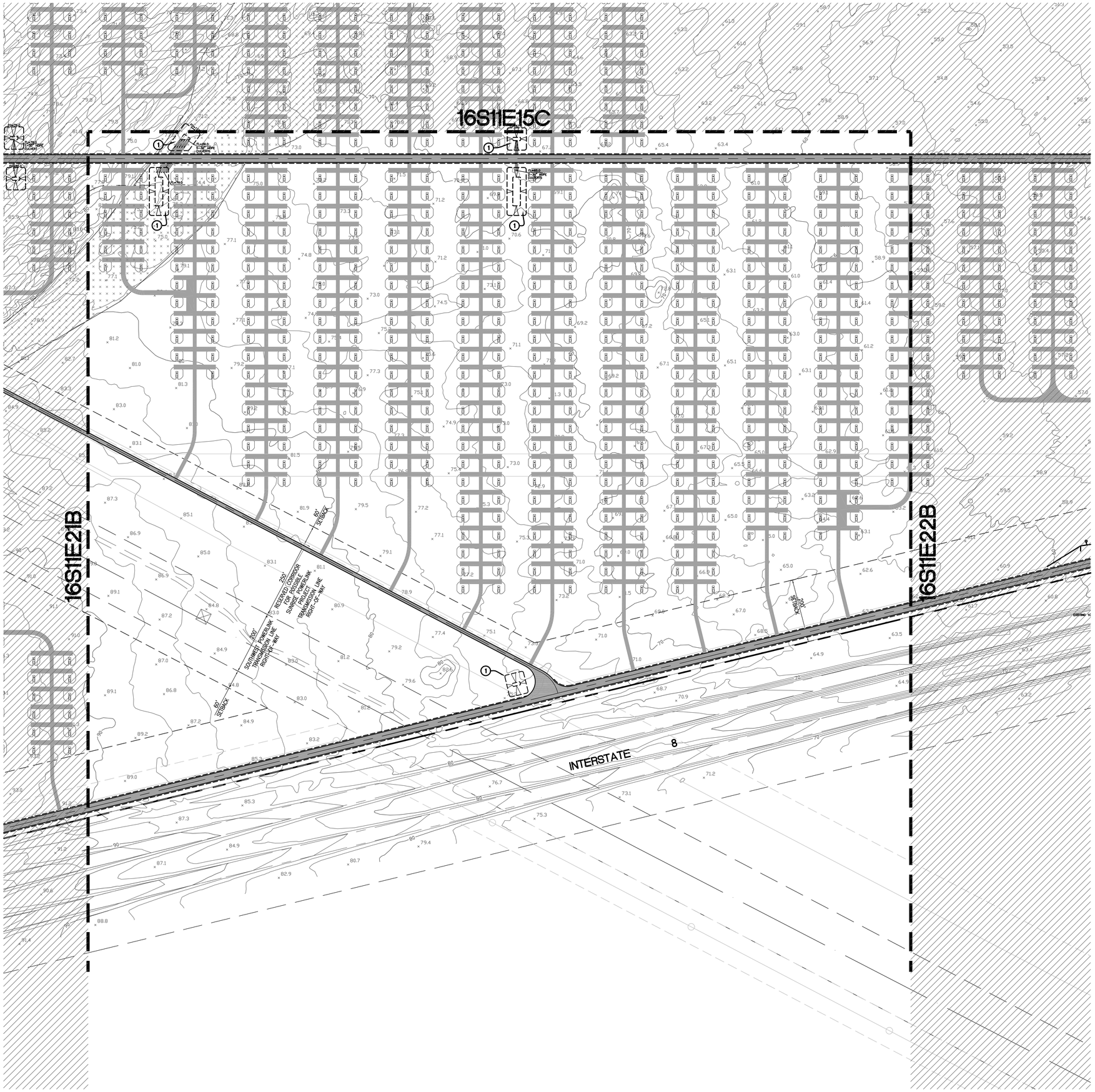
stantec.com

SCALE 1" = 120' | DRN. TB/CT/RB | DES. PK/SD | APP. NJA | CHK. PK/NJA | DATE 10/17/08 | DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e09d.dwg PLOTTED: 2/4/2009 2:13 AM BY: Brees, Ron



CONSTRUCTION NOTES:

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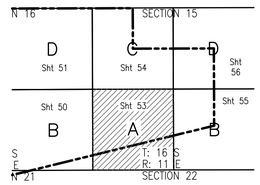
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E22A

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	53	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E22A.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015028801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e22a.dwg PLOTTED: 2/4/2009 2:13 AM BY: Brees, Ron

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
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- FIBER ROLLS
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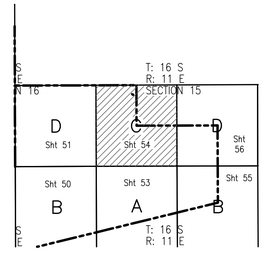
INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

60' SETBACK

16S11E15D

16S11E22A

NO.	DATE	BY	APP
B			

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E15C

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT: 54 | REV: B

PROJECT: 20000268801 | CAD FILE: EC-16S11E15C.dwg | DATE: 10/17/08 | DATE: 10/17/08

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2384-E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555
www.stantec.com

Stantec | SCALE: 1" = 120' | APP: N/A | CHK: PK/N/A

DRN: TB/CS/RB | DES: PK/SD

DRAWING: x:\2015\active\201502680\1\civil\design\drawing\plans_sets\erosion_control\ec-16s11e15c.dwg PLOTTED: 2/4/2009 2:14 AM BY: Brees, Ron

16S11E15D

16S11E22A

INTERSTATE 8

60' SETBACK

200' SETBACK

EXISTING 10 – 72" WIDE X 64" HIGH CMPS

FS=552.0
TC=547.0
2:1 SIDE SLOPE
3 SACKS

FS=445.5

CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

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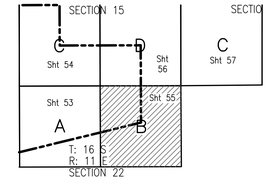
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E22D

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT: 55
REV: B

PROJECT: 20000026801
CAD FILE: EC-16S11E22B.dwg

STANTEC CONSULTING INC.
2364 E BUSINESS CENTER DRIVE
REDLANDS, CA 92374
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www.stantec.com

Stantec

SCALE: 1" = 120'
DRN: TB/CS/RB DES: PK/SD
APP: NJA
CHK: PK/NJA
DATE: 10/17/08
DATE: 10/17/08
DATE: 10/17/08

NO.	DATE	BY	APP

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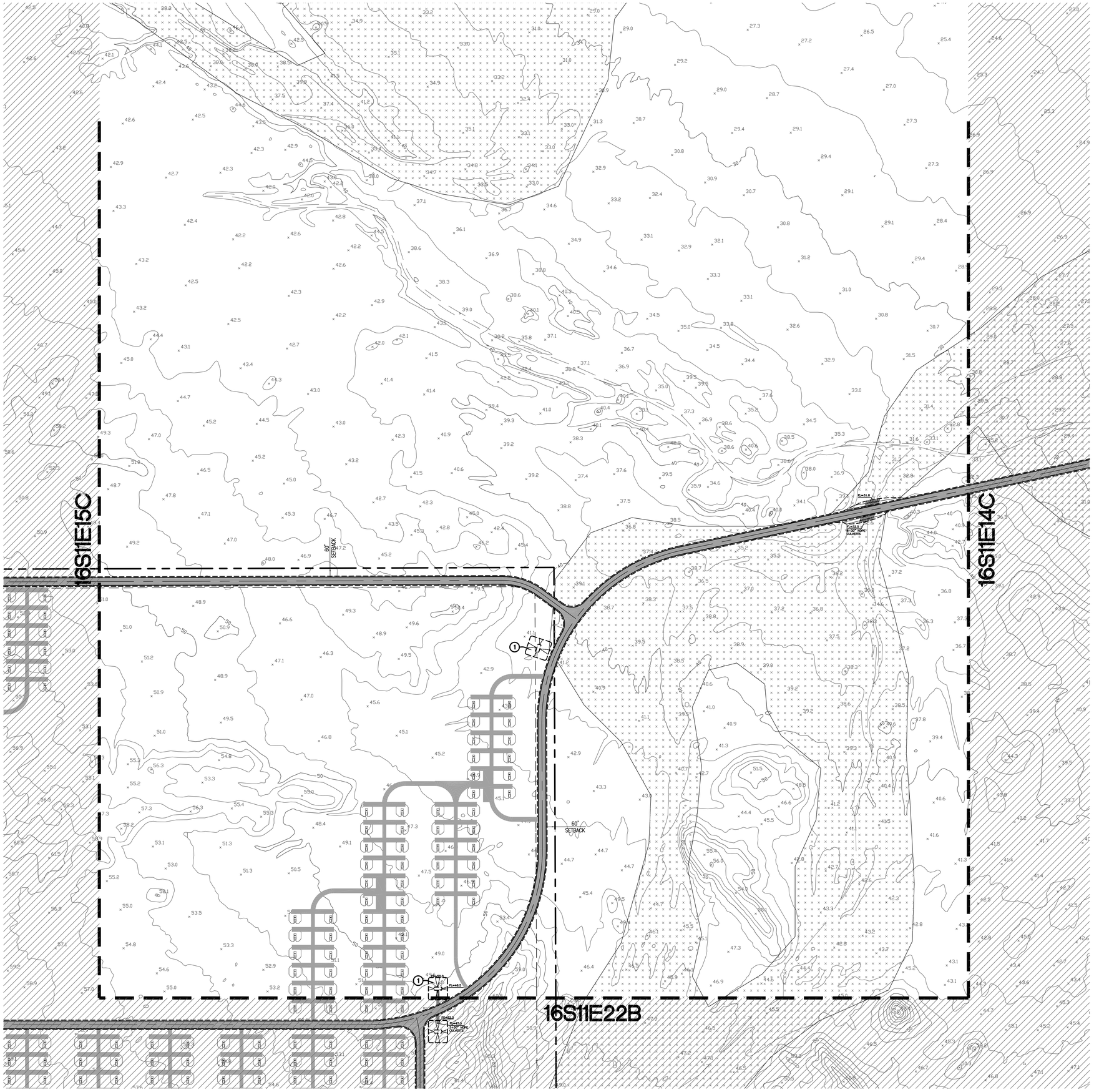

CONSTRUCTION NOTES:

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- EXISTING FLOWLINE
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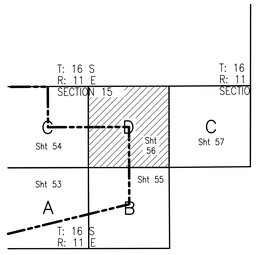
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

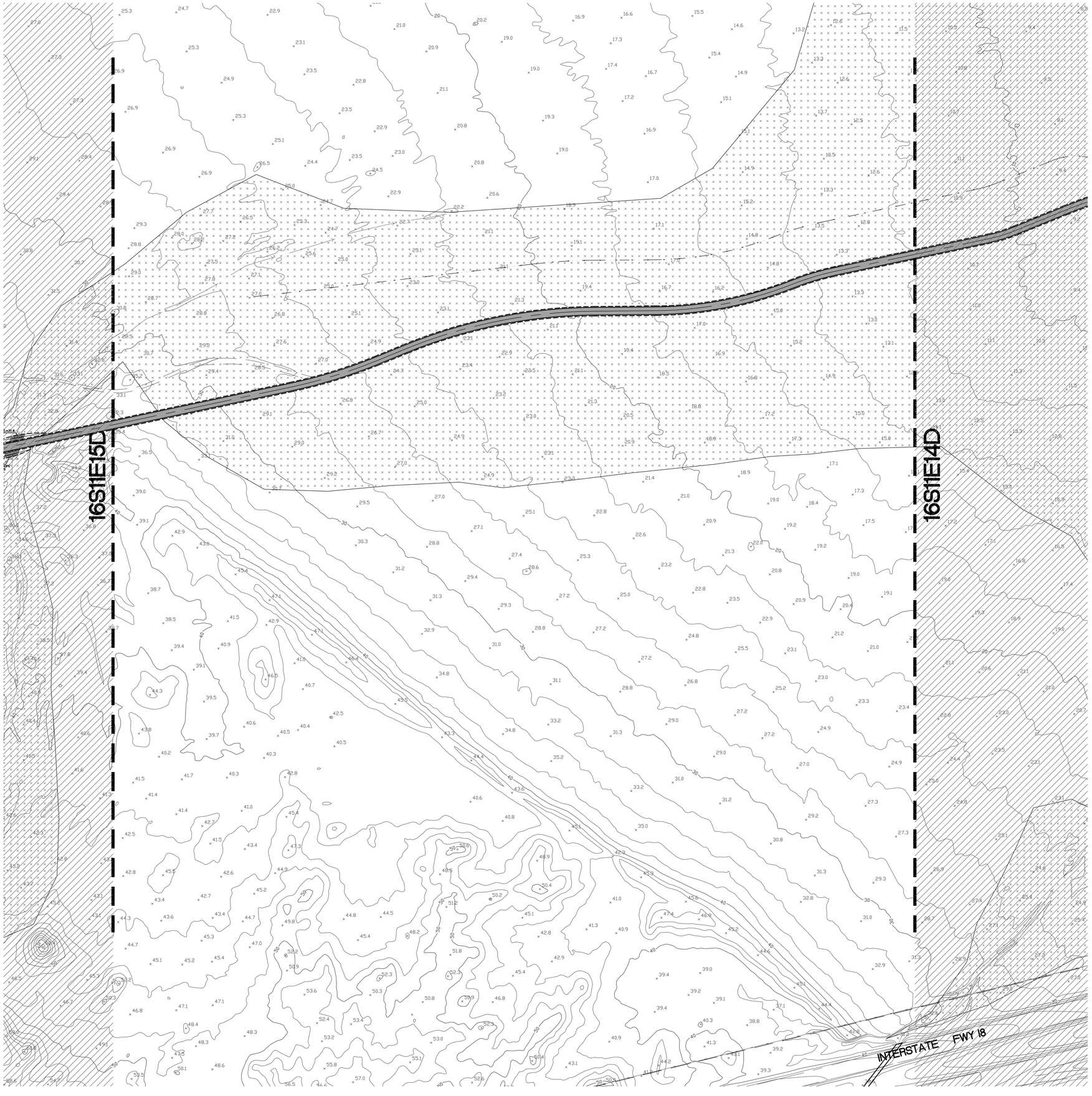
SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E15O

TITLE:
SES Stirling Energy Systems
SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT: 56
REV: B
PROJECT: 20000268
CAD FILE: EC-16S11E15O.dwg
DATE: 10/17/08
CHK: PK/NJA
APP: NJA
DRN: TB/CC/RB
DES: PK/SD
SCALE: 1" = 120'

STANTEC CONSULTING INC.
2364-41 BUSINESS CENTER DRIVE
REDLANDS, CA 92374
(909) 335-1555
www.stantec.com

NO.	DATE	BY	APP

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_set\erosion_control\ec-16s11e15d.dwg PLOTTED: 2/4/2009 2:16 AM BY: Brees, Ron



CONSTRUCTION NOTES:

1. APPLY SOIL BINDER (1 GAL SOILTAC PER 65 SF, OR EQUIVALENT) ON SIDES OF BASIN AFTER REMOVAL OF DEBRIS.
2. CONSTRUCT STABILIZED ENTRACE/EXIT PER DETAIL TC-1 ON SHEET 3

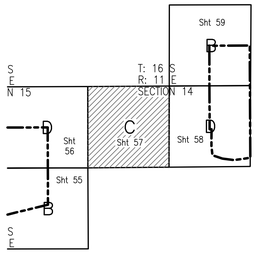
DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATERING OR APPLYING SOIL BINDERRS AS NEEDED.

AFTER CONSTRUCTION APPLY SOIL BINDERS ON ALL DISTURBED AREAS TO PREVENT WATER AND WIND EROSION.

LEGEND

- 24' SITE ACCESS ROAD & ARTERIAL ROAD
- 12' PERIMETER ROAD
- 15' MAINTENANCE ROAD & 12' ACCESS ROAD
- N.A.P. NOT A PART (OWNED BY OTHERS)
- SunCatcher
- PROPOSED FLOWLINE
- EXISTING FLOWLINE NOTE: EXISTING DRAINAGE PATTERN TO REMAIN UNLESS PROPOSED FLOWLINE IS SHOWN.
- EXISTING 100 YEAR FLOOD PLAIN
- DEBRIS BASIN
- PROPERTY LINE
- SETBACK BOUNDARY
- SOIL BINDER
- SILT FENCING
- STRAWBALE BARRIER
- FIBER ROLLS
- SAND BAGS
- GRADING LIMITS

INDEX MAP



PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E14C

SES Stirling Energy Systems

SHEET SIZE:	DWG:	SHT.	REV.
Arch E1 (30x42)	S2-C0623	57	B

PROJECT:	CAD FILE:
2000026801	EC-16S11E14C.dwg

STANTEC CONSULTING INC.
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374
909.335.6116
stantec.com

SCALE	1" = 120'	APP. NJA	DATE 10/17/08
DRN. TB/CT/RB	DES. PK/SD	CHK. PK/NJA	DATE 10/17/08

NO.	DATE	BY	APP.

DRAWING: v:\2015\active\2015026801\civil\design\drawing\plan_sets\erosion_control\ec-16s11e14c.dwg PLOTTED: 2/4/2009 2:16 AM BY: Brees, Ron

CONSTRUCTION NOTES:

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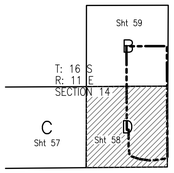

PRELIMINARY

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

TITLE: SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E14D

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42) | DWG: S2-C0623 | SHT. 58 | REV. B

PROJECT: 2000026801 | CAD FILE: EC-16S11E14D.dwg

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909.335.6116
stantec.com

SCALE 1" = 120' | APP. NJA | DATE 10/17/08
DRN. TB/CT/RB | DES. PK/SD | CHK. PK/NJA | DATE 10/17/08

NO.	DATE	BY	APP.

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DUNAWAY ROAD

REYNOLDS ROAD

40' SETBACK

91' SETBACK

40' SETBACK

16S11E14D

CONSTRUCTION NOTES:

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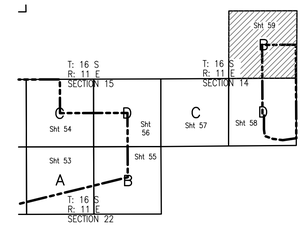

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GRAPHIC SCALE

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(IN FEET)
1 inch = 120 ft.

SES SOLAR TWO LLC
SOLAR TWO - SITE PLAN
EROSION CONTROL PLAN
16S11E14B

TITLE:

SES Stirling Energy Systems

SHEET SIZE: Arch E1 (30x42)
DWG: S2-C0623
SHT: 59 of 59
REV: B

PROJECT: 20000268801
CAD FILE: EC-16S11E14B.dwg

STANTEC CONSULTING INC.
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Stantec

NO.	DATE	BY	APP

SCALE: 1" = 120'
DRN: TB/CC/RB | DES: RK/SD | APP: NJA | CHK: RK/NJA | DATE: 10/17/08 | DATE: 10/17/08

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