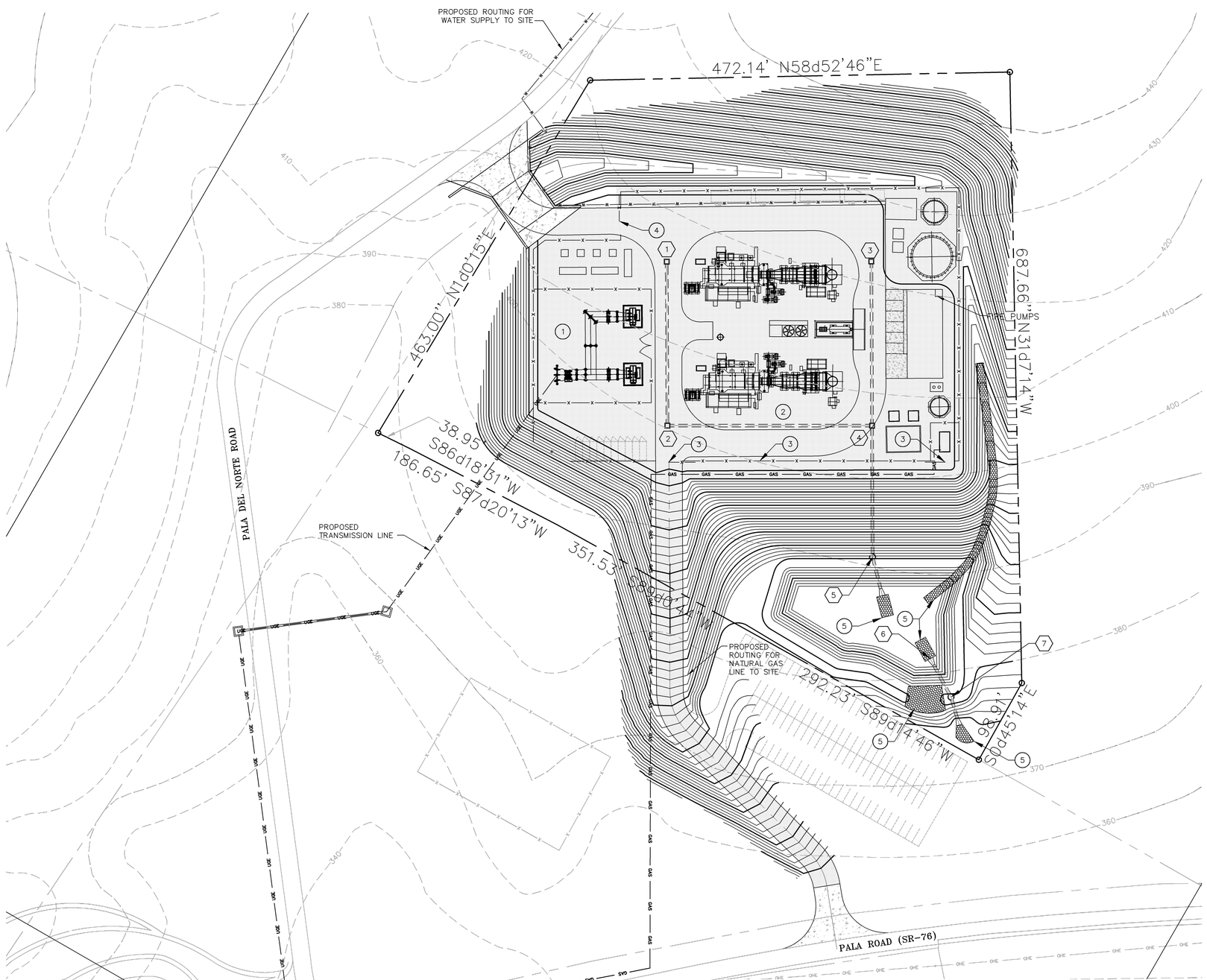

CIVIL KEYNOTES:

1. INSTALL SUBSTATION CRUSHED ROCK SURFACE, SEE SITE DETAILS.
2. INSTALL COMBUSTION TURBINE AREA COMPACTED CRUSHED ROCK SURFACE, SEE SITE DETAILS.
3. INSTALL SITE SECURITY CHAINLINK FENCE WITH 30' MANUAL SLIDE GATES, SEE SITE DETAILS.
4. INSTALL 40' SLIDE GATE WITH GATE OPERATOR AND LOOP DETECTOR.
5. INSTALL MIN. OF 15" DEEP RIPRAP.

STORM DRAINAGE NOTES

1. INSTALL STANDARD 4x4 AREA INLET AND CLASS III RCP TO 2
2. INSTALL STANDARD 4x4 AREA INLET AND CLASS III RCP TO 4
3. INSTALL STANDARD 4x4 AREA INLET AND CLASS III RCP TO 4
4. INSTALL STANDARD 4x4 AREA INLET AND CLASS III RCP TO 5
5. INSTALL STANDARD 4'ø MANHOLE AND CLASS III RCP TO RETENTION/DETENTION BASIN
6. INSTALL CLASS III RCP TO SECTION BASIN OUTLET CONTROL STRUCTURE
7. IINSTALL DETENTION BASIN OUTLET CONTROL STRUCTURE

GRADING NOTES

1. ALL CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF SAN DIEGO COUNTY, CALIFORNIA, LATEST EDITION.
2. ALL STORM SEWER LINES SHALL BE CLASS III RCP.
3. PIPE LENGTHS EXCLUDE END SECTIONS AND ARE MEASURED ALONG CENTERLINE OF PIPE FROM CENTER OF INSIDE FACE TO CENTER OF INSIDE FACE OF STRUCTURES.
4. MATCH GRADES AT EXISTING IMPROVEMENTS.
5. SLOPES SHALL BE MADE AT 3:1 MAXIMUM GRADE.
6. EROSION CONTROL STRUCTURES (SEE EROSION CONTROL PLAN) SHALL BE CONSTRUCTED PRIOR TO GRADING ACTIVITIES.
7. DRAINAGE CHANNELS SHALL BE MINIMUM 3' FLAT BOTTOM. ALL DRAINAGE CHANNELS SHALL HAVE 3:1 SIDE SLOPES.
8. NORTHING AND EASTING COORDINATES FOR MANHOLES, AREA INLETS, FIELD INLETS, AND JUNCTION BOXES ARE MEASURED TO CENTER OF STRUCTURE.
9. NORTHING AND EASTING COORDINATES FOR END SECTIONS ARE MEASURED TO FARTHEST EDGE OF THE END SECTION AT PIPE CENTERLINE.
10. ODD NUMBERED CONTOURS ARE SHOWN FOR CLARITY IN CERTAIN LOCATIONS; ARE NOT COMPLETE IN ALL LOCATIONS.

NOTES:

1. ALL GRADELINES AND ELEVATIONS ARE BASED ON USGS TOPO 20' CONTOURS. ALL OTHER CONTOURS HAVE BEEN DRAWN TO REPRESENT LIKELY EXISTING ELEVATIONS. AS A RESULT, PROPOSED CONTOURS AND ELEVATIONS SHOULD BE VIEWED AS PRELIMINARY.
2. THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE COMMENCING SUCH ACTIVITY.

LEGEND

- PROPOSED MANHOLE/STRUCTURE
- PROPERTY LINE
- 400 EXISTING CONTOUR
- 380 PROPOSED CONTOUR
- GAS PROPOSED GAS LINE
- UGE PROPOSED UNDERGROUND ELECTRICAL
- UGE PROPOSED UTILITY BORING
- W PROPOSED WATERLINE
- OHE EXISTING T&D LINE
- X EXISTING FENCE
- EXISTING ROAD
- X PROPOSED FENCE
- PARCEL LINE
- EXISTING USGS BLUE LINE
- PROPOSED SILT FENCE EROSION CONTROL
- DRAINAGE ARROW
- PROPOSED INLET PROTECTION EROSION CONTROL
- PROPOSED RIP RAP
- PROPOSED CRUSHED ROCK SURFACE
- PROPOSED CONCRETE

GRADING AND DRAINAGE PLAN

PLAN NORTH IS 30°00'00" CCW OF TRUE NORTH

60 0 60 120

SCALE IN FEET

REV.	DATE	DESCRIPTION	DWN	CHK
A	6-22-07	FOR REVIEW AND COMMENT	BGG	WHR

Sealed Only When Signed in Blue Ink

Sega ®
Engineers – Architects – Technicians
Design – Construction – Field Service
16041 Foster
P.O. Box 1000
Stilwell, Kansas 66085-1000

J-POWER GROUP
J-POWER USA Development Co. Ltd

ORANGE GROVE PROJECT

GRADING AND DRAINAGE PLAN

PRELIMINARY

DESIGNED BY: B. ROMINES	CHECKED BY: B. ROMINES
DRAWN BY: B. GASPERS	DATE: 6-7-07
CLIENT JOB NO. JPD000101	SEGA PROJECT NO. 07-098
CADD FILE NAME: 07098-C300.dwg	
DRAWING NO. C300	REV. A

N:\2007\07098\dwgs\ce\07098-C300.dwg 6/22/07 3:46pm bgaspers