



DRAINAGE AREA NOTES:

(OS) DRAINAGE WILL BE ROUTED AROUND SITE BY NORTH DITCH DRAINAGE CHANNEL.

OFF-SITE DRAINAGE-NORTH CHANNEL

50 YEAR DESIGN STORM					
DEVELOPMENT STAGE	STORM DRAINAGE AREA (ACRES)	PEAK RUNOFF RATE Q (CFS)	RUNOFF COEF. C.	AVERAGE CHANNEL VELOCITY V (FT/S)	AVERAGE DEPTH ELEVATION (FT.)
PRE-DEV.	6.5	22.97	61	N/A	N/A
100 YEAR DESIGN STORM					
PRE-DEV.	6.5	34.28	61	N/A	N/A

- (1) INLET FOR DRAINAGE AREA.
- (2) INLET FOR DRAINAGE AREA.
- (3) INLET FOR DRAINAGE AREA.
- (4) INLET FOR DRAINAGE AREA.
- (5) RETENTION INLET STRUCTURE, ALL DRAINAGE FROM DRAINAGE AREA 1, 2, 3, 4, AND 5 WILL BE ROUTED HERE.
- (6) INLET/OUTLET STRUCTURE FOR DETENTION DISCHARGE.
- (7) DETENTION BASIN OUTLET CONTROL STRUCTURE.
- (8) DETENTION/RETENTION AREA EMERGENCY SPILLWAY.
- (9) AREAS SOUTH OF PARCEL LINE AND WITHIN "PROPOSED DISTURBED AREA" LINE ARE AREAS FOR "TEMPORARY CONSTRUCTION PARKING AND LAYDOWN."

ON-SITE STORMWATER RETENTION/DETENTION BASIN

50 YEAR DESIGN STORM						
DEVELOPMENT STAGE	STORM DRAINAGE AREA (ACRES)	PEAK RUNOFF RATE Q (CFS)	RUNOFF COEF. C.	RETENTION OR DETENTION VOLUME V (FT ³)	DESIGNED WATER SURFACE VOLUME (FT ³)	WATER SURFACE ELEVATION (FT.)
PRE-DEV.	5.5	16.87	58	41382	N/A	N/A
POST-DEV.	5.5	36.31	81	87120	94090	378(±)
100 YEAR DESIGN STORM						
PRE-DEV.	5.5	25.87	58	62291	N/A	N/A
POST-DEV.	5.5	47.49	81	114563	117176	377(±)

SUMMARY OF AREAS (ACRES):

- 1. IMPERVIOUS AREA (INCLUDES CONCRETE ENTRANCE SECTION) - 1.00
- 2. CRUSHED ROCK SURFACE AREA (INCLUDES VEHICULAR AREA) - 3.10
- 3. VEHICULAR AREA - 1.17
- 4. TEMPORARY CONSTRUCTION PARKING AREA AND LAYDOWN - 3.32
- 5. TOTAL DISTURBED AREA - 12.81

GENERAL 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 OF TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE COMMENCING SUCH ACTIVITY.

KEY:

- (EX) - EXISTING STRUCTURES
- CI - CURB INLET
- SI - CURB INLET IN SUMP
- DI - SINGLE DROP INLET
- DI-2 - DOUBLE DROP INLET
- ES - PREFABRICATED END SECTION
- JB - JUNCTION BOX
- YI - YARD INLET
- AI - AREA INLET
- MH - MANHOLE
- R - REDUCER
- FI - FIELD INLET
- BEND - PREFABRICATED VERTICAL BEND
- T.D. - TRENCH DRAIN
- G.I. - GRATE INLET
- O.C. - DETENTION OUTLET CONTROL STRUCTURE
- RCP - REINFORCED CONCRETE PIPE

DESIGN NOTES:

- (a) TIME OF CONCENTRATION 15 MINUTES MAX. 5 MINUTES MIN.
- (b) PIPE LENGTHS EXCLUDE END SECTIONS AND ARE MEASURED ALONG CENTERLINE OF PIPE FROM CENTER OF INSIDE FACE TO CENTER OF INSIDE FACE OF STRUCTURES.
- (c) MANNING'S ROUGHNESS COEFFICIENT = 0.013 (CONCRETE)

LEGEND

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- 400 --- PROPOSED MAJOR CONTOUR
- 380 --- PROPOSED MINOR CONTOUR
- GAS --- GAS
- UGE --- UGE
- UGE --- UGE
- - - - - PROPOSED UNDERGROUND ELECTRICAL
- - - - - PROPOSED UTILITY BORING
- - - - - PROPOSED WATERLINE
- - - - - EXISTING T&D LINE
- - - - - EXISTING FENCE
- - - - - EXISTING ROAD
- - - - - PROPOSED FENCE
- - - - - PARCEL LINE
- - - - - DRAINAGE PATH
- - - - - PROPOSED SILT FENCE EROSION CONTROL
- - - - - PROPOSED RIP RAP
- - - - - PROPOSED CRUSHED ROCK SURFACE
- - - - - PROPOSED CONCRETE
- - - - - PROPOSED NATIVE GROUND COVER
- - - - - PROPOSED LANDSCAPING
- - - - - EXISTING TREES WITHIN DRAINAGE
- A = AREA IN ACRES
- B = BASIN DESIGNATION
- C = COMPOSITE RUNOFF COEFFICIENT
- D = BASIN DESIGNATION
- - - - - DRAINAGE AREA LIMITS
- - - - - PROPOSED DISTURBED AREA

REV.	DATE	DESCRIPTION	DWN	CHK
0	7-5-07	ISSUED FOR CEC PERMIT APPLICATION	BGG	WHR

Sealed Only When Signed in Blue Ink

Engineers - Architects - Technicians
Design - Construction - Field Service

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ORANGE GROVE PROJECT

DRAINAGE AREA MAP

DESIGN BY: B. ROMINES	CHECKED BY: J. BONDANK
DRAWN BY: B. GASPERS	DATE: 6-22-07
CLIENT I.D. JPO00101	SEGA PROJECT NO. 07-098

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