# **GENERAL NOTES**

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL \*A PERMIT/ \*A NOTICE TO PROCEED HAS BEEN ISSUED. 2. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUC-TION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

5. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STAN-DARDS MANUAI

6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT-ISSUING AUTHORITY.

7. ALL EXISTING AND/OR PROPOSED PUBLIC UTILITY SYSTEM AND SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 144.0240 OF THE MUNICIPAL CODE.

8. PRIOR TO ANY DISTURBANCE TO THE SITE. EXCLUDING UTILITY MARK-OUTS AND SURVEYING. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.

9. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR

10. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.

11. AN AS-GRADED GEOTECHNICAL REPORT AND A SET OF THE REDLINE GRADING PLANS SHALL BE SUBMITTED AT AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE FIELD ENGINEERING DIVISION AT 9485 AERO DR

12. ESA FENCING (I.E. ORANGE CONSTRUCTION FENCE) SHALL BE ERECTED ALONG THE BOUNDARY OF THE SITE EXCEPT ADJACENT TO THE STAGING AND STORAGE AREA WHERE ACCESS ONTO THE SITE WILL BE ALLOWED (SEE SHEET 8-D). ESA FENCING WILL ALSO BE ERECTED AROUND THE SITE'S EXISTING VERNAL POOL. ALL FENCING WILL BE VERIFIED BY THE PROJECT BIOLOGIST PRIOR TO CONSTRUCTION. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVE OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZA TIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

#### **GRADING NOTES**

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.

GENERAL

1. ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY'S CURRENT GRADING ORDINANCE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS) AND THE "SAN DIEGO AREA REGIONAL STANDARD DRAWINGS", AS AMENDED BY THE CITY SUPPLEMENTS, AND THE EARTHWORK SPECIFICATIONS INCLUDED IN THE PROJECT MANUAL

2. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED PROJECT BIOLOGIST FAMILIAR WITH VERNAL POOL RESTORATION. REFERENCE THE MITIGATION PLAN (MERKEL & ASSOCIATES 2015), SECTION 4.2 FOR QUALIFICATION REQUIREMENTS FOR THE PROJECT BIOLOGIST. THE BIOLOGIST SHALL BE RETAINED DIRECTLY BY THE CITY SEPARATE FROM THE CONSTRUCTION CONTRACTOR.

3. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE IN CROSSSECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE COMPACTED, SHAPED, AND TRIMMED AS SHOWN OR SPECIFIED IN THESE PLANS. FINISH SLOPES SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL RUBBLE, ROOTS OR OTHER WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE. UNEARTHED COBBLE SHALL REMAIN ON THE SITE AND DISTRIBUTED IN THE POOL BASINS AS DIRECTED BY THE PROJECT BIOLOGIST (SEE SHEET 5).

4. COMPACTION TESTS SHALL BE PERFORMED AS SPECIFIED AND AREAS FAILING COMPACTION SHALL BE RECOMPACTED UNTIL REQUIREMENTS ARE MET.

5. IMPORT MATERIAL SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT A SITE APPROVED BY THE CITY AND/OR THE PROJECT BIOLOGIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS DROPPED OR DAMAGE OCCURRING ALONG THE HALL ROUTES OR AD ACENT STREETS AS A DIRECT RESULT OF THE OPERATION. AS CONTEMPLATED, IMPORT MAY CONSIST OF UP TO 50 CY OF ROUNDED COBBLE, IF INADEQUATE VOLUME OCCURS IN THE EXCAVATION MATERIAL. GRADING IS INTENDED TO BE A BALANCED CUT/FILL. AS SUCH, EXPORT SHALL BE LIMITED TO INCIDENTAL DEBRIS AND TRASH THAT MAY BE ENCOUNTERED. THIS IS EXPECTED TO BE LIMITED

6. THE CONTRACTOR SHALL BE AWARE THAT THE WORK PROPOSED IS PRECISION GRADING AND NOT MASS GRADING. ACCEPTANCE OF GRADING WORK CONDUCTED SHALL BE BASED ON AREA OF WORK COMPLETED TO AN ACCEPTABLE CONDITION (ELEVATIONS, COMPACTION, AND PLACEMENT OF TOPSOIL AND COBBLE) RATHER THAN VOLUME OF MATERIAL MOVED. ACCEPTANCE OF AREAS COMPLETED WILL BE BASED ON 80 FOOT BY 80 FOOT GRIDS AND PARTS THERE-OF.

#### GRADING AND CONTOURING

7. THE CONTRACTOR SHALL CONSTRUCT THE SITE FROM WEST TO EAST TO ESTABLISHING POOL SILL ELEVATIONS IN A MANNER THAT ENSURES EAST TO WEST SPILL DIRECTION FROM POOL TO POOL AS DICTATED UNDER THE GRADING AND POOLING PLAN (SHEET 4).

8. GRADING WILL BE ACCOMPLISHED DURING THE DRY SEASON WITH EQUIPMENT SMALL ENOUGH TO ACCESS AND MANEUVER THE SITE. ONLY THE LIMIT OF WORK WILL BE GRADED AND GRADES MUST MEET THE ADJACENT TERRAIN WITH SLOPES OF LESS THAN 2:1 RUN-RISE.

9. PRIOR TO GRADING ON THE MITIGATION SITE, THE TOP 2 INCHES OF TOPSOIL WILL BE SCRAPED FROM AREAS PROPOSED FOR GRADING. STOCKPILE TOPSOIL IN WINDROWS NO TALLER THAT 3 FEET IN HEIGHT WITH A SLOPE STEEPNESS THAT DOES NOT EXCEED 3:1. ALL TOPSOIL WILL BE STOCKPILED WITHIN THE CONSTRUCTION WORK AREA. IF TOPSOIL IS NOT USED FOR AN EXTENDED AMOUNT OF TIME ALLOW A COVER OF VOLUNTEER VEGETATION TO ESTABLISH. THIS PLANT COVER WILL ENABLE SOME OF THE SOIL COMPONENTS TO REMAIN HEALTHY AND ALIVE. THIS TOPSOIL WILL BE TEMPORARILY PLACED ADJACENT TO THE GRADING AREAS AND WHEN THE TOPOGRAPHIC RECONSTRUC-TION IS COMPLETE. THIS TOPSOIL WILL BE PLACED BACK OVER THE GRADING AREA FROM WHICH IT WAS COLLECTED. TOPSOIL REMOVALS AND REPLACEMENT MAY BE CONDUCTED IN A PHASED MANNER TO ALLOW FOR LIMITED SOIL TRANSPORT.

10. THE RESTORATION BIOLOGIST WILL BE ON-SITE TO MONITOR GRADING AND SCRAPING ACTIVITIES. THE CONTRACTOR SHALL COMMIT A GRADE CHECKER AND LASER LEVELING OR LASER TRANSIT EQUIPMENT TO THE PROJECT DURING ALL GRADING ACTIVITIES. UPON COMPLETION OF ROUGH GRADING IN EACH POOL, THE CONTRACTOR'S GRADE CHECKER SHALL VERIFY THE SILL ELEVATIONS AND POOL ELEVATION WITH THE BIOLOGIST PRIOR TO AND AFTER PLACING THE FINAL TOPSOIL FILL.

	WARNING		<b>CONSTRUCTION CHANGE / ADDENDUM</b>		
CIT	0 1/2 1	APPROVAL NO	AFFECTED OR ADDED SHEET NUMBERS	DATE	CHANGE
PUI	IF THIS BAR DOES NOT MEASURE 1"				
	THEN DRAWING IS NOT TO SCALE.				
	•	•	•		

# **GRADING PLANS FOR:** MONTGOMERY FIELD LOCALIZER PROJECT **VERNAL POOL MITIGATION PLAN**



**KEY MAP** 

# **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 CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

EXP. XX-XX-XX

#### NAME R.C.E. NO. XXXXX **OWNER/APPLICANT**

CITY OF SAN DIEGO ENGINEERING AND CAPITAL PROJECTS 525 B STREET, SUITE 750 SAN DIEGO, CA 92010 (619) 533-5497

#### **REFERENCE DRAWINGS**

THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE FOLLOWING DOCUMENT PREPARED BY THE PROJECT BIOLOGIST: MONTGOMERY FIELD LOCALIZER PROJECT, CITY OF SAN DIEGO, MITIGATION PLAN, PREPARED BY MERKEL & ASSOCIATES, MARCH 2015

# SITE ADDRESS

MONTGOMERY FIELD AIRPORT 3573 JOHN J. MONTGOMERY DRIVE SAN DIEGO, CA 92123

#### SURVEY CONTROL & BENCHMARK

1. THE EXISTING BASE MAP TOPOGRAPHY IS DERIVED FROM THE 2005 LIDAR SURVEY OF THE CITY (CITY OF SAN DIEGO, 2005) AND DATA ARE PRESENTED IN NAVD 88, FEET. PLAN GRADING AND DRAINAGE IS BASED ON THE LIDAR DATA AND INTERNAL POSITION AND ELEVATION CONTROL IS MORE IMPORTANT THAN ABSOLUTE ELEVATION ACCURACY. FOR THIS REASON, THE CONTRACTOR SHALL ESTABLISH PROJECT SPECIFIC SURVEY CONTROL BASED ON PRESENTED SITE ELEVATIONS RATHER THAN RELYING ON ESTABLISHED CITY BENCHMARKS. CONTRACTOR SHALL VARIFY INTERNAL CONSISTENCY BETWEEN PROJECT CONTROL POINTS AND BASE TOPOGRAPHY (SEE SHEET 3).

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENT AND/OR BENCHMARK WHICH MAY BE DISTURBED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT. THERE ARE NO MONUMENTS KNOWN WITHIN THE WORK AREA.

# TOTAL DISTURBED AREA

TOTAL SITE DISTURBED AREA = 6.96 ACRES

# **GRADING QUANTITIES**

GRADED AREA	6.96 [ACRES]
CUT QUANTITIES	4,380 [CYD]
FILL QUANTITIES	4,380 [CYD]
IMPORT/EXPORT	0 [CYD]

MAX FILL SLOPE RATIO 2:1 THIS PROJECT PROPOSES NO SOIL IMPORT FROM OFFSITE AND NO EXPORT OF SOIL. BUT RATHER IS BALANCED BETWEEN THE CUTS AND FILLS OF THE POOLS AND MOUNDS AND THE TRANSFERRED STOCKPILE VERNAL POOL TOPSOILS TO BE MOVED FROM THE WEST END OF THE AIRFIELD NEAR THE WEST GATE. GRADING QUANTITIES HAVE BEEN ESTIMATED BY SURFACE TO SURFACE SUBTRACTION METHODS AS A MEANS TO ASSIST IN DEVELOPMENT OF SCHEDULES AND ENGINEERS ESTIMATES AND ARE PROVIDED TO THE CONTRACTOR AS GENERAL INFORMATION. THE CONTRACTOR SHALL INDEPENDENTLY EVALUATE AND VERIFY GRADING EFFORTS PRIOR TO BIDDING. GRADING FOR THIS PROJECT IS TO BE PAID ON A LUMP-SUM BASIS AND IS NOT BASED ON VOLUMETRIC MEASURES. AS SUCH, THERE WILL BE NO ADJUSTMENT IN PAY QUANTITES ASSOCIATED WITH DIFFERENCES IN EARTHWORK VOLUMES.

#### ASSESSORS PARCEL NUMBER

42103060, 36917024, 42103060, 42103061, 42129011, 76022229, 76022231, 76022241, 76022243, 76022244, 76022245, 76022247

# SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES
3	EXISTING CONDITIONS
4	GRADING AND POOLING PLAN
5	MOUND AND POOL DETAIL
6	CROSS-SECTIONS
7	PLANTING PLAN
8	STORM WATER MANAGEMENT PLA

# **TRAFFIC CONTROL NOTE\***

IF REQUIRED, THE CONTRACTOR WILL GENERATE A TRAFFIC CONTROL PLAN AND OBTAIN A TRAFFIC CONTROL PERMIT FROM THE TRAFFIC CONTROL CHECK COUNTER (619 - 446 -5425), LAND DEVELOPMENT REVIEW DIVISION, 3RD FLOOR, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. A MINIMUM OF TWO WORKING DAYS (5 WORKING DAYS FOR STREET CLOSURES) PRIOR TO STARTING WORK WITHIN THE PUBLIC RIGHT-OF-

# STORM WATER PROTECTION NOTES

1. THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO.\_\_\_\_\_; AND RISK LEVEL/TYPE: CHECK ONE BELOW

	WPCP
X	CGP RISK LEVEL 1
	CGP RISK LEVEL 2
	CCD DISK I EVEL 3

COMPANY NAME

COMPANY PHONE

COMPANY FAX

COMPANY EMAIL

COMPANY ADDRESS

- ISK LEVEL 3 2. CHECK ONE ☑ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
- PER PHASE.
- ☐ NOT APPLICABLE

3. THE CONTRACTOR WILL PREPARE A SWPPP AND WILL COMPLY WITH ALL REQUIREMENTS OF THIS PLAN.

4. THE SITE IS DESIGNED TO RESULT IN HIGH RUNOFF RATES FROM MIMA MOUNDS TO INTERNAL VERNAL POOL BASINS. THE MAJORITY OF THE RUNOFF WILL COLLECT IN THE VERNAL POOL BASINS. HOWEVER, UNDER VERY WET YEARS WHERE POOLS HAVE FULLY CHARGED. POOLS WILL SPILL FROM ONE TO ANOTHER WITH THE GENERAL FLOW BEING TO THE WEST. DISRUPTION OR MODIFICATION OF RUNOFF PATTERNS WITHIN THE MICRO-WATERSHEDS IS UNDESIREABLE AND COUNTER TO THE INTENDED PURPOSE OF THE RESTORATION. FOR THIS REASON, WATER QUALITY CONTROL MEASURES ARE PROPOSED TO BE INSTALLED ONLY AT THE DISCHARGE LOCATIONS FROM THE RESTORATION SITE.

5. FIBER ROLLS SHALL BE SURFACE PLACED (HEAVILY STAKED WITHOUT EMBEDMENT) ALONG THE IDENTIFIED SILT FENCE ALIGNMENT AND SHALL REMAIN IN PLACE THROUGH THE 5-YEAR POST-RESTORATION MONITORING PROGRAM. THESE ROLLS WILL BE REMOVED AND DISPOSED OF AT THE END OF THE 5-YEAR MONITORNG PROGRAM BY THE PROJECT BIOLOGIST.

6. IN THE EVENT, GRADING AND OTHER GROUND DISTURBING CONTRUCTION ACTIVITIES EXTENDS BEYOND OCTOBER 1, THEN A FULLY EMBEDDED SILT FENCE SHALL BE CONSTRUCTED ALONG THE SILT FENCE ALIGNMENT DOWNSTREAM OF THE FIBER ROLL. THE SILT FENCE SHALL ONLY BE PLACED IN THE EVENT OF EXTENDED CONSTRUCTION INTO THE RAINY SEASON AND SHALL BE REMOVED BY THE PROJECT BIOLOGIST AFTER THE FIRST YEAR POST-CONSTRUCTION

7. IN THE EVENT CONSTRUCTION EXTENDS PAST OCTOBER 1, THEN FIBER ROLLS SHALL BE PLACED AROUND ANY STOCKPILED MATERIALS THAT MAY DISCHARGE SEDIMENT. STOCKPILED INOCULUM COLLECTED FROM POOL #34 OR OTHER DONOR POOLS SHALL BE KEPT DRY AND OUT OF THE ELEMENTS, BUT SHALL NOT BE TIGHTLY TARPED IN ORDER TO PREVENT MOLD DEVELOP-MENT OR COMPOSTING OF MATERIAL.

TEMPORARY BMP CONSTRUCTION SITE SOTRM WATER PRIORITY	
AS-BUILT INFORMATI	(

MATERIALS	MA
PIPE CL 235 (WATER)	
PIPE SCR 35 (WATER)	
GATE VALVES	
FIRE HYDRANTS	
SEWER MANHOLES	
REHABILITATE SEWER MANHOLES	
REHABILITATE SEWER MAIN	
	-

# Y OF SAN DIEGO BLIC WORKS PROJECT



MAX. CUT DEPTH 3.6 [FT] MAX CUT SLOPE RATIO 2:1 MAX. FILL DEPTH 3.4 [FT]



**X** CGP | UP TYPE CGP LUP TYPE 2 

THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES

## STORM WATER PROTECTION NOTES

8. THE CONTRACTOR SHALL ADHERE TO STANDARD BEST MANAGEMENT PRACTICES FOR CONTROLLING WASTE AND SEDIMENT DISCHARGE FROM THE SITE THROUGH EITHER STORMWATER RUN-OFF OR WIND-BLOWN PROCESSES. THE CONTRACTOR SHALL ADHERE TO SWPPP REQUIREMENTS AND SHALL NOTE ANY CONFLICTS BETWEEN THE PROVISIONS OF THESE PLANS AND THE SWPPP. IN GENERAL, THE HIGHEST DEGREE OF REQUIREMENTS BETWEEN THE TWO DOCUMENTS SHALL APPLY. HOWEVER, EXCAVATIONS OR TEMPORARY WATER DIVERSION CALLED FOR IN THE SWPPP MAY CONFLICT WITH OBJECTIVES OF GENERAT-ING RUN-OFF TO POOLS AND MAINTAINING FUNCTIONALITY OF SHEET DRAINAGE PATTERNS TO FILL AND SUSTAIN POOLS AND POOL LINKAGE. IF THE CONTRACTOR BELIEVES CONFLICTS EXIST, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND PROJECT BIOLOGIST FOR RESOLUTION.

9. DISCHARGING SEDIMENT-LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF THE APPLICABLE RWQCB'S BASIN PLANS FROM A DEWATERING SITE OR SEDIMENT BASIN/TRAP INTO ANY RECEIVING WATER OR STORM DRAIN WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.

10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ADEQUATE SEDIMENT CONTROL MATERIALS ARE AVAILABLE TO CONTROL SEDIMENT DISCHARGES AT THE DOWNGRADE PERIMETER AND OPERATION INLETS (WEATHER AND STORM PREDICTIONS CAN BE OBTAINED BY CALLING THE NATIONAL WEATHER SERVICE AT (858) 675-8700 OR BY VISITING THE NATIONAL WEATHER SERVICE WEB SITE AT HTTP://WWW.WRH.NOAA.GOV/SANDIEGO/INDEX.SHTML. FOR WEATHER INFORMATION AND CURRENT SATELLITE/RADAR FEEDS)

11. THE OUTLETS OF ALL SEDIMENT BASINS, TRAPS, AND LOCATIONS OF ARTIFICIALLY CONCENTRATED FLOW SHALL BE PROVIDED WITH OUTLET PROTECTION TO PREVENT EROSION AND SCOUR.

12. INSPECTIONS SHALL BE PERFORMED BEFORE AND AFTER STORM EVENTS AND ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS TO IDENTIFY BMP EFFECTIVENESS AND IMPLEMENT REPAIRS OR DESIGN CHANGES AS SOON AS FEASIBLE, DEPENDING ON FIELD CONDITIONS. EQUIPMENT, MATERIALS, AND WORKERS MUST BE AVAILABLE FOR RAPID RESPONSE TO FAILURES AND EMERGENCIES. ALL CORREC-TIVE MAINTENANCE TO BMP'S SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER THE CONCLUSION OF EACH STORM, DEPENDING UPON WORKER SAFETY.

13. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS SUCH AS DAMAGE TO UNDERGROUND WATER AND SEWER UTILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

14. TEMPORARYEROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENT, SHALL BE PERFORMED BY THE CONTRACTOR.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.

16. THE CONTRACTOR SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAIN-

17. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.

18. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCA-TIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

19. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

20. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE PROJECT BIOLOGIST OR RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERA-TIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.

21. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

22. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

23. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

24. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

25. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (CONTRACTOR, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROI MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.



NO SCALE

ENGINEERING PERMIT NO:\_

DISCRETIONARY PERMIT NO:

CONSTRUCTION SITE STORM WATER PRIORITY:

G-1

#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

#### COVER SHEET IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087

CITY OF SAN DIEGO, CALIFORNIA Development Services Department SHEET 1 OF 8 SHEETS					I.O. NO PROJECT NO
APPROVED					SUBMITTED BY:
FOR CITY ENGINEER			DATE		PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED	
60% DESIGN	LYM	K. MERKEL	7-13-2015		CCS27 COORDINATE
REVISIONS	LYM/KLM	K. MERKEL	8-26-2015		6,290,560 E, 1,877,680 N NAD83 COORDINATE
CONTRACTOR	D/	ATE STARTE	D		

HIGH MEDIUM LOW	SPEC. NO.
ON	
ANUFACTURER	

# WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.						
STANDARD SPECIFICATIONS:						
DOCUMENT NO.	DESCRIPTION					
PITS070112-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION					
PITS070112-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION					
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 2012 EDITION					
PITS070112-06 CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION						
STANDARD DRAWINGS:						
DOCUMENT NO.	DESCRIPTION					
PITS070112-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION					

PITS070112-05

CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2010 EDITION

THE WORK INCLUDED UNDER THIS CONTRACT IS THE CREATION OF VERNAL POOLS BY PRECISION CONTOUR GRADING AND FILLING WITHIN AN EXISTING POORLY DEVELOPED MIMA MOUND TOPOGRAPHY. THE SITE HAS BEEN DESIGNED TO PROTECT AND INTEGRATE SOME OF THE EXISTING TOPOGRAPHIC AND VEGETATION FEATURES WHILE MIMICKING OTHER NATURAL FEATURES WHERE FULL GRADING DISTURBANCE IS REQUIRED. GRADING IS DESIGNED TO CREATE STEEP SIDED COMPACTED SOIL MIMA MOUNDS THAT RESULT IN STORM RUNOFF TO A SERIES OF INTERNALLY DRAINING BASINS THAT WILL SEASONALLY POOL WATER. THE POOL DEPTHS AND INTERCONNECTIVITY IS DICTATED BY SILL ELEVATIONS BETWEEN THE POOLS AND BASIN FLOOR ELEVATIONS. SPILLWAY SILL ELEVATIONS AND LOW POINTS IN THE POOLS ARE CRITICAL FACTORS IN DESIGN, WHILE HORIZONTAL POSITIONING OF FEATURES REQUIRES LESS TIGHT CONTROLS.

RESTORATION PLANTING OF THE SITE IS TO BE PERFORMED BY SEEDING FROM BOTH COMMERCIAL SEED SOURCES AS WELL AS LOCAL COLLECTION OF SEED FROM WITHIN VERNAL POOL BASINS. IN ADDITION, COLLECTIONS SHALL BE UNDERTAKEN TO HARVEST AND SPREAD SAN DIEGO FAIRY SHRIMP AND OTHER INVERTEBRATE CYSTS WITHIN THE NEWLY CREATED POOLS.

CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS FOR RESTORATION IMPLEMENTATION AT THE MONTGOMERY FIELD LOCALIZER PROJECT MITIGATION SITE OUTLINED IN THE RESOURCE AGENCY APPROVED MONTGOMERY FIELD LOCALIZER PROJECT MITIGATION PLAN (MERKEL & ASSOCIATES 2015). THE WORK SHALL BE CLOSELY OVERSEEN BY A PROJECT BIOLOGIST TO ENSURE THAT THE PROJECT RESTORATION GOALS ARE ACHIEVED IN THE IMPLEMENTATION OF THE RESTORATION PROJECT.

#### LEGEND

#### PROPOSED IMPROVEMENT

- EXISTING EVEN CONTOUR
- EXISTING ODD CONTOUR
- EXISTING 1/2 FT CONTOUR
- UTILITY LINE

20-FOOT UTILITY CORRIDOR

CHAPARRAL TO REMAIN IN PLACE

EXISTING IMPROVEMENTS

PROPOSED EVEN CONTOUR PROPOSED ODD CONTOUR

PROPOSED 1/2 FT CONTOUR

BASINS FULL POOLING LIMITS

POOL SPILL DIRECTION

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# **EROSION AND SEDIMENT CONTROL NOTES**

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL. STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND FOR PERMANENT POST CONSTRUCTION TREATMENT CONTROL PERMANENT BMP'S, THE WATER QUALITY TECHNICAL REPORT (WQTR) IF APPLICABLE.

2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET.

3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES. THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.

4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.

5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL

6. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

7. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT

8. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEANING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

9. THE SITE IS DESIGNED TO RESULT IN HIGH RUNOFF RATES FROM MIMA MOUNDS TO INTERNAL VERNAL POOL BASINS. THE MAJORITY OF THE RUNOFF WILL COLLECT IN THE VERNAL POOL BASINS. HOWEVER, UNDER VERY WET YEARS WHERE POOLS HAVE FULLY CHARGED, POOLS WILL SPILL FROM ONE TO ANOTHER WITH THE GENERAL FLOW BEING TO THE WEST. DISRUPTION OR MODIFICATION OF RUNOFF PATTERNS WITHIN THE MICRO-WATERSHEDS IS UNDESIREABLE AND COUNTER TO THE INTENDED PURPOSE OF THE RESTORATION. FOR THIS REASON, WATER QUALITY CONTROL MEASURES ARE PROPOSED TO BE INSTALLED ONLY AT THE DISCHARGE LOCATIONS FROM THE RESTORATION SITE.

10. FIBER ROLLS SHALL BE PLACED SURFACE PLACED (HEAVILY STAKED WITHOUT EMBEDMENT) ALONG THE IDENTIFIED SILT FENCE ALIGNMENT AND SHALL REMAIN IN PLACE THROUGH THE 5-YEAR POST-RESTORATION MONITORING PROGRAM. THESE ROLLS WILL BE REMOVED AND DISPOSED OF AT THE END OF THE 5-YEAR MONITORNG PROGRAM BY THE PROJECT BIOLOGIST.

11. IN THE EVENT, GRADING AND OTHER GROUND DISTURBING CONTRUCTION ACTIVITIES EXTENDS BEYOND OCTOBER 1. THEN A FULLY EMBEDDED SILT FENCE SHALL BE CONSTRUCTED ALONG THE SILT FENCE ALIGNMENT DOWNSTREAM OF THE FIBER ROLL. THE SILT FENCE SHALL ONLY BE PLACED IN THE EVENT OF EXTENDED CONSTRUCTION INTO THE RAINY SEASON AND SHALL BE REMOVED AT THE DIRECTION OF THE PROJECT BIOLOGIST AFTER THE FIRST YEAR POST-CONSTRUCTION.

12. IN THE EVENT CONSTRUCTION EXTENDS PAST OCTOBER 1, THEN FIBER ROLLS SHALL BE PLACED AROUND ANY STOCKPILED MATERIALS THAT MAY DISCHARGE SEDIMENT. STOCKPILED INOCULUM COLLECTED FROM POOL #34 OR OTHER DONOR POOLS SHALL BE KEPT DRY AND OUT OF THE ELEMENTS, BUT SHALL NOT BE TIGHTLY TARPED IN ORDER TO PREVENT MOLD DEVELOPMENT OR COMPOSTING OF MATERIAL.

## EROSION AND SEDIMENT CONTROL NOTES CONT.

13. THE CONTRACTOR SHALL ADHERE TO STANDARD BEST MANAGEMENT PRACTICES FOR CONTROLLING WASTE AND SEDIMENT DISCHARGE FROM THE SITE THROUGH EITHER STORMWATER RUN-OFF OR WIND-BLOWN PROCESSES. THE CONTRACTOR SHALL ADHERE TO SWPPP REQUIREMENTS AND SHALL NOTE ANY CONFLICTS BETWEEN THE PROVISIONS OF THESE PLANS AND THE SWPPP. IN GENERAL, THE HIGHEST DEGREE OF REQUIREMENTS BETWEEN THE TWO DOCUMENTS SHALL APPLY. HOWEVER, EXCAVATIONS OR TEMPORARY WATER DIVERSION CALLED FOR IN THE SWPPP MAY CONFLICT WITH OBJECTIVES OF GENERATING RUN-OFF TO POOLS AND MAINTAINING FUNCTIONALITY OF SHEET DRAINAGE PATTERNS TO FILL AND SUSTAIN POOLS AND POOL LINKAGE. IF THE CONTRACTOR BELIEVES CONFLICTS EXIST, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND PROJECT BIOLOGIST FOR RESOLUTION.

## MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

MAINTAINED FOR THE LIFE OF THE PROJECT:

#### PRIVATE NOTE

TERMINATION (NOT) IS FILED.

ALL ONSITE PRIVATE IMPROVEMENTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CITY ENGINEER'S APPROVAL OF THIS DRAWING, IN NO WAY CONSTITUTES AN APPROVAL OF SAID PRIVATE IMPROVEMENTS. A SEPARATE PERMIT FOR SUCH IMPROVEMENTS MAY BE REQUIRED.

## **ENVIRONMENTAL/MITIGATION REQUIREMENTS:**

A. GENERAL REQUIREMENTS 1. PRE-CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT. THE PERMIT HOLDER IS RESPONSIBLE TO ARRANGE AND PERFORM THIS MEETING BY CONTACTING THE CITY RESIDENT ENGINEER (RE) OF THE FIELD ENGINEERING DIVISION AND CITY STAFF FROM MITIGATION MONITORING COORDINATION (MMC). ATTENDEES MUST ALSO INCLUDE THE PERMIT HOLDER'S REPRESENTATIVE(S) AND JOB SITE SUPERINTENDENT.

#### NOTE:

ADDITIONAL MEETING WITH ALL PARTIES PRESENT.

2. MMRP COMPLIANCE: THIS PROJECT, PROJECT TRACKING SYSTEM (PTS) # AND/OR ENVIRONMENTAL DOCUMENT , SHALL CONFORM TO THE MITIGATION REQUIREMENTS CONTAINED IN THE ASSOCIATED ENVIRONMENTAL DOCUMENT AND SHALL BE IMPLEMENTED TO THE SATISFACTION OF DSD'S ENVIRONMENTAL DESIGNEE (MMC) AND THE RE. THE REQUIREMENTS MAY NOT BE REDUCED OR CHANGED BUT MAY BE ANNOTATED (I.E. TO EXPLAIN WHEN AND HOW COMPLIANCE IS BEING MET AND LOCATION OF VERIFYING PROOF, ETC.). ADDITIONAL CLARIFYING INFORMATION MAY ALSO BE ADDED TO OTHER RELEVANT PLAN SHEETS AND/OR SPECIFICATIONS AS APPROPRIATE (E.G. SPECIFIC LOCATIONS, TIMES OF MONITORING, METHODOLOGY, ETC.).

#### NOTE

PERMIT HOLDER'S REPRESENTATIVES MUST ALERT THE RE AND MMC IF THERE AREA NAY DISCREPANCIES IN THE PLANS, NOTES OR ANY CHANGES DUE TO FIELD CONDITIONS. ALL CONFLICTS MUST BE APPROVED BY THE RE AND MMC BEFORE THE WORK IS PERFORMED.

3. OTHER AGENCY REQUIREMENTS EVIDENCE OF COMPLIANCE WITH ALL OTHER AGENCY REQUIREMENTS OR PERMITS SHALL BE SUBMITTED TO THE RE AND MMC FOR REVIEW AND ACCEPTANCE PRIOR TO THE BEGINNING OF WORK OR WITHIN ONE (1) WEEK OF THE PERMIT HOLDER OBTAINING DOCUMENTATION OF THOSE PERMITS OR REQUIREMENTS. EVIDENCE SHALL INCLUDE COPIES OF PERMITS, LETTERS OF RESOLUTION OR OTHER DOCUMENTATION ISSUED BY THE RESPONSIBLE AGENCY.

PROJECT SPECIFIC REQUIREMENT: USACOE RGP NO. 63. FILE NO. 2009-00892-RRS

4. MONITORING EXHIBITS: <u>ALL CONSULTANTS</u> ARE REQUIRED TO SUBMIT TO THE RE AND MMC, A MONITORING EXHIBIT ON A 11"X17" REDUCTION OF THE APPROPRIATE CONSTRUCTION PLAN SUCH AS SITE PLAN, GRADING, LANDSCAPE, ETC. MARKED TO CLEARLY SHOW THE SPECIFIC AREAS INCLUDING THE LIMIT OF WORK, SCOPE OF THAT DISCIPLINE'S WORK, AND NOTES INDICATION WHEN IN THE CONSTRUCTION SCHEDULE THAT WORK WILL BE PERFORMED. WHEN NECESSARY FOR CLARIFICATION, A DETAILED METHODOLOGY OF HOW THE WORK WILL BE PERFORMED SHALL BE INCLUDED.

#### NOTE

SURETY AND COST RECOVERY - WHEN DEEMED NECESSARY BY THE DEVELOPMENT SERVICES DIRECTOR OR CITY MANAGER. THEY MAY REQUIRE ADDITIONAL SURETY INSTRUMENTS OR BONDS FROM THE PERMIT HOLDER TO ENSURE THE LONG TERM PERFORMANCE OR IMPLEMENTATION OF REQUIRED MITIGATION MEASURES OR PROGRAMS. THE CITY IS AUTHORIZED TO RECOVER ITS COST TO OFFSET THE SALARY, OVERHEAD, AND EXPENSES FOR CITY PERSONNEL AND PROGRAMS TO MONITOR QUALIFYING PROJECTS.

# APPROVAL PER THE FOLLOWING SCHEDULE:

ISSUE AREA	DOCUMENT SUBMITT
PROJECT SITE	N/A

#### B. SPECIFIC MMRP ISSUE AREA CONDITIONS/REQUIREMENTS SEE IS/MND FOR APPLICABLE REQUIREMENTS

**ISSUE AREA – CONDITIONS** 

PERIMETER ROAD AND FAA STORAGE AREA:

THE GRAVELED PAD SUPPORTS FAA STORAGE AND ANTENNA EQUIPMENT FOR THE AIRPORT. IT ALSO PROVIDES ALL WEATHER STAGING AND A CLEAN AREA FOR CONTRACTOR STAGING, PARKING, AND EQUIPMENT STORAGE. A 120-FOOT BY 80- FOOT CONTRACTOR STAGING AND STORAGE AREA MAY BE LOCATED ON THIS PAD DURING THE PERIOD OF CONSTRUCTION. THE CONTRACTOR'S STAGING AREA SHALL BE MARKED WITH TEMPORARY CONSTRUCTION FENCING, BUT NEED NOT BE OTHERWISE SECURED BY CHAIN-LINK FENCING. THE SPECIFIC LOCATION AND DIMENSIONS OF THIS YARD MAY BE ADJUSTED IN CONSULTATION WITH THE AIRPORT MANAGER.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STAGE SOIL OR OTHER MATERIAL DIRECTLY ON THE GRAVEL THAT MAY FOUL THE GRAVEL PAD. SHOULD THE CONTRACTOR HAVE NEED FOR STAGING SOILS OR OTHER MATERIAL, THIS SHALL BE DONE WITHIN THE GRADING AREA, OR ON GEOFABRICS OR TARPS THAT SHALL BE FULLY REMOVED AT THE END OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO THE LOOSE GRAVEL PAD AT THE END OF WORK. THIS MAY INCLUDE RAKING THE PAD SMOOTH OF ANY EQUIPMENT TRACKS.

#### UTILITIES:

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGOUND SERVICE ALERT AT (800) 422-4133.

NOT WITHSTANDING CONTACTS WITH UNDERGROUND SERVICE ALERT IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES AND UTILITIES, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES. THIS REQUIRES FIELD LOCATION OF UTILITIES AND STAKING THE UTILITY CORRIDOR. NO EXCAVATION SHALL OCCUR OVER UTILITIES. SHOULD PRECISE UTILITY ALIGNMENTS DIFFER FROM THOSE SHOWN ON PLANS, THE DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND PROJECT BIOLOGISTS AND SLIGHT ADJUSTMENTS WILL BE MADE TO ELIMINATE ANY CONFLICTS.

AT THE COMPLETION OF THE WORK SHOWN. THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF

FAILURE OF ALL RESPONSIBLE PERMIT HOLDER'S REPRESENTATIVES AND CONSULTANTS TO ATTEND SHALL REQUIRE AN

a) THE PRIMARY POINT OF CONTACT IS THE RE AT THE FIELD ENGINEERING DIVISION AT 858-627-3200. b) IT IS ALSO REQUIRED TO CALL THE RE AND MMC AT 858-627-3360 FOR CLARIFICATION OF ENVIRONMENTAL REQUIREMENTS.

5. OTHER SUBMITTALS AND INSPECTIONS: THE PERMIT HOLDER'S REPRESENTATIVES SHALL SUBMIT ALL REQUIRED DOCUMENTATION, VERIFICATION LETTERS, AND REQUESTS FOR ALL ASSOCIATED INSPECTIONS TO THE RE AND MMC FOR

ASSOC INSPECTION/APV	NOTES
PRECONSTRUCTION	TO BE CONDUCTED PRIOR TO ANY ON-SITE WOR
COMPLETION OF GRADING OF FIRST 80 FT. X 80 FT. GRID CELL	PROVIDE 2 DAY NOTICE
PRIOR TO APPLICATION OF TOPSOIL AND INOCULUM TO VERNAL POOL BASINS	PROVIDE 2 DAY NOTICE
PRIOR TO SEEDING MIMA MOUNDS	PROVIDE 2 DAY NOTICE
INITIATION OF 120-DAY PLANT ESTABLISHMENT PERIOD	PROVIDE 1 WEEK NOTICE
COMPLETION OF 120-DAY PLANT ESTABLISHMENT PERIOD	PROVIDE 1 WEEK NOTICE

A GRAVELED ROAD AND PAD EXIST ADJACENT TO THE PROJECT WORK AREA. THIS ROAD SERVES AS THE PRIMARY PERIMETER SECURITY ROAD AT THE AIRPORT AND MAY NOT BE BLOCKED BY THE CONTRACTOR AT ANY TIME.

# ENVIRONMENTAL/MITIGATION REQUIREMENTS CONT.

ENVIRONMENTAL PROTECTION:

PRIOR TO GRADING, CORMS OF SAN DIEGO GOLDENSTARS OCCURRING AT IDENTIFIED COORDINATES WITHIN A 5-FOOT RADIUS OF THE IDENTIFIED CENTER POINT SHALL BE PROTECTED IN PLACE OR SHALL BE EXCAVATED AND RELOCATED WITHIN THE RESTORATION SITE AS INDICATED. SALVAGED CORMS SHALL BE STORED IN A COOL DRY ENVIRONMENT UNTIL AFTER GRADING IS COMPLETED. AFTER GRADING, THE CORMS WILL BE REINTRODUCED TO THE SITE WITHIN NON-POOLING AREAS, AS DIRECTED BY THE PROJECT BIOLOGIST. AN ESTIMATED TOTAL OF 22 PLANTS WERE IDENTIFIED ON THE SITE. 20 SHALL BE PROTECTED IN PLACE, AND 2 WILL BE SALVAGED AND REPLANTED AT THE SAME APPROXIMATE SOIL DEPTH FROM WHICH THEY WERE SALVAGED.

OPEN CHAPARRAL OCCURS ON THE TOP OF MIMA MOUNDS ALONG THE WESTERN EDGE OF THE RESTORATION SITE. WITHIN THIS AREA, GRADING SHALL BE LIMITED TO EXCAVATION OF LOWER LYING TERRAIN BETWEEN SHRUB COVERED MOUNDS. SOIL WILL BE TRANSPORTED TO THE CUT AND FILL AREAS EAST OF THE DEFINED SHRUB BOUNDARY ILLUSTRATED IN THE PLAN. WORK TO THE WEST OF THE SHRUB BOUNDARY ONLY DIFFERS FROM THAT TO THE FAST IN THAT IT IS PRINCIPALLY A CUT ONLY GRADING FEFORT AND IT RETAINS EXISTING VEGETATION ON THE MOUNDS. NO SPECIFIC FENCING AROUND THE RETAINED SHRUBS IS REQUIRED.

## **AIRPORT WORK AND ACCESS**

1. AN APPROVED HAUL ROUTE SHALL BE ARRANGED WITH THE CITY AIRPORTS PRIOR TO BEGIN-NING CONSTRUCTION. EQUIPMENT ACCESS IS PRESENTLY ANTICIPATED TO BE FROM THE NORTH FIELD GATE OFF PONDEROSA AVENUE. ADDITIONAL ACCESS TO THE POOL #34 STOCKPILE WOULD BE FROM THE WEST FIELD GATE ON KEARNY VILLA ROAD.

2. THE AIRFIELD IS A SECURITY ZONE. CONTRACTOR ACCESS SHALL BE LIMITED TO THE WORK AREAS AND DESIGNATED HAUL ROUTES. THE AIRPORT MANAGER MAY RESTRICT HOURS OF OPERATION TO ONLY THOSE OF AIRPORT OPERATIONS OR MAY IMPOSE ADDITIONAL OPERATIONAL HOURS OR ACTIVITIES RESTRICTIONS ON A CASE-BY-CASE AS NEEDED BASIS TO ENSURE THE SECURITY OF THE AIRFIELD, FLIGHT OPERATIONS, THE PUBLIC, AND THE CONTRACTOR.

3. THE AIRPORT IS A REGULATED ACCESS SITE AND HAS RESTRICTIONS ON HEIGHTS OF EQUIPMENT AND CONTAINMENT OF POTENTIAL WINDBLOWN MATERIALS. CONTRACTOR SHALL NOT ALLOW UNCONTAINED WIND SUSPENDABLE MATERIALS OR WASTES ON THE AIRPORT PREMISES AT ANY TIME AND SHALL NOT UTILIZE OR STORE FOUIPMENT OVER 15 FEET IN HEIGHT PRIOR TO COORDINATION WITH THE AIRPORT MANAGER. THE AIRPORT MANAGER MAY RESTRICT OPERATION OR STORAGE OF TALL EQUIPMENT AT HIS DISCRESSION.

4. NEITHER THE CITY NOR ITS CONSULTANTS SHALL BE RESPONSIBLE FOR ENFORCEMENT OF CONTRACTOR SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULA-TIONS. THE LACK OF OBLIGATION TO ENFORCE SAFETY MEASURES SHALL NOT PROHIBIT THE CITY OR OTHER AGENCY FROM PURSUIT OF ENFORCEMENT ACTIONS SHOULD CONTRACTOR ACTIVITIES WARRANT

5. EFFECTIVE DUST CONTROL SHALL BE IMPLEMENTED AT ALL TIMES BOTH FOR AIR QUALITY AND AIRCRAFT SAFETY PURPOSES. INEFFECTIVE DUST CONTROL MEASURES MAY RESULT IN A STOPPAGE OF WORK UNTIL SUCH TIME AS DUST CONTROL IS IMPLE-MENTED TO AN EFFECTIVE LEVEL

6. VALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS UNLESS SPECIFICALLY AUTHORIZED BY THE CITY.

# **PROTECTION OF UTILITIES**

1. BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGOUND SERVICE ALERT (USA) AT (800) 422-4133.

2. IDENTIFIED UNDERGROUND UTILITIES ARE AIRFIELD LIGHTING AND EQUIPMENT ELECTRICAL AND COMMUNICATIONS CABLES AND MAY NOT BE ON STANDARD USA CALL-OUT RECORDS. FAA AND SAN DIEGO AIRPORTS SHALL BE CONTACTED WITH RESPECT TO THESE FACILITIES AND CONTRACTOR SHALL ANTICIPATE THE NEED FOR COMPLETION OF ITS OWN UTILITY LOCATING ACTIVI-TIES.

3. NOT WITHSTANDING CONTACTS WITH UNDERGROUND SERVICE ALERT IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES AND UTILITIES, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.

4. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES. THIS REQUIRES FIELD LOCA-TION OF UTILITIES AND STAKING THE UTILITY CORRIDOR. NO EXCAVATION SHALL OCCUR OVER UTILITIES. SHOULD PRECISE UTILITY ALIGNMENTS DIFFER FROM THOSE SHOWN ON PLANS. THE DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND PROJECT BIOLOGISTS AND SLIGHT ADJUSTMENTS WILL BE MADE IN GRADING PLANS TO ELIMINATE ANY UTILITY CONFLICTS.

#### **GENERAL ENVIRONMENTAL NOTES**

1. ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED IN PLACE. ENVIRONMENTALLY SENSITIVE AREAS WITHIN THE WORK AREA SHALL BE DELINEATED BY THE RESTORATION BIOLOGIST PRIOR TO CONSTRUCTION WITH PIN FLAGS OR EQUIVALENT AND AVOIDED BY THE CONTRACTOR DURING CONSTRUCTION. IF THE CONTRACTOR IMPACTS A PROTECTED ENVIRONMENTALLY SENSITIVE AREA. INCLUDING BUT NOT LIMITED TO EXISTING VERNAL POOLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MITIGATING IMPACTS AS REQUIRED BY THE WILDLIFE AGENCIES AND CITY.

2. BASIN RECONTOURING DISTURBANCE SHALL BE LIMITED TO THE GRADING ZONES AS INDICATED BY FLAGGING. A QUALIFIED BIOLOGIST FAMILIAR WITH VERNAL POOLS SHALL MONITOR CONSTRUCTION THAT OCCURS NEAR SENSITIVE HABITAT AREAS.

3. EQUIPMENT STAGING AND ACCESS, REFUELING AREAS, AND DISPOSAL OR TEMPORARY PLACEMENT OF EXCESS FILL SHALL BE LOCATED OUTSIDE OF ANY VERNAL POOL WATERSHEDS AND AWAY FROM SENSITIVE HABITAT ON THE CONTRACTOR'S STAGING AREA. FUELING SHALL BE COMPLETED OVER A TARP GROUND COVER TO COLLECT ANY SPILLED FUELING OR LUBING PRODUCTS.

4. IN THE EVENT OF A CONFLICT IN REQUIREMENTS, THE CITY AND THE PROJECT BIOLOGIST SHALL BE CONTACTED TO RESOLVE THE CONFLICT.

#### REVEGETATION

VERNAL POOL INNOCULUM

1. THE RESTORATION OF VERNAL POOL HABITAT CAN BE GREATLY ACCELERATED BY THE ACTIVE TRANSPORT OF PROPAGULES FROM DONOR SITES INTO THE RESTORED PONDS (SCHEIDLINGER ET AL. 1985). THIS WILL BE ACCOMPLISHED BY TRANSLOCATION OF SEEDS, SPORES, BULBS, EGGS, AND OTHER PROPAGULES FROM PREVIOUSLY SALVAGED MATERIAL COLLECTED FROM IMPACTED AREAS OF VERNAL POOL #34 (SEE MITIGATION PLAN FOR LOCATION), AS WELL AS OTHER VERNAL POOLS ON THE PROPERTY. THESE DONOR POOLS WILL INCLUDE HIGH QUALITY POOLS THAT OCCUR AT THE EASTERN END OF THE AIRPORT (SEE MITIGATION PLAN FOR LOCATION). ALL INOCULUM COLLECTION AND APPLICATION WILL BE SUPERVISED BY THE PROJECT BIOLO-GIST.

2. NO DONOR POOL SHALL CONTAIN VERSATILE FAIRY SHRIMP (BRANCHINECTA LINDAHLI). THE ABSENCE OF VERSATILE FAIRY SHRIMP WITHIN DONOR POOLS SHALL BE DETERMINED BY PROJECT BIOLOGIST PRIOR TO CONTRACTOR ACTIVITIES.

3. APPROXIMATELY 20 CY OF VERNAL POOL TOPSOILS WERE PREVIOUSLY COLLECTED FROM THE IMPACTED PORTION OF VERNAL POOL #34 AT THE WEST END OF THE RUNWAY PRIOR TO FILLING AND WILL BE USED TO INOCULATE THE SOILS OF THE RESTORED VERNAL POOLS. THE LOCATION OF THE SALVAGED STOCKPILED SOIL IS ILLUSTRATED ON SHEET 1

4. STOCKPILED SOILS FROM POOL #34 MAY BE EXCAVATED AND TRUCKED TO THE RESTORATION SITE AND USED AS IS FOR INNOCULATION OF POOLS CONCURRENT WITH TOPSOIL PLACEMENT. THIS MATERIAL SHALL BE INCLUDED AS WIDLY DISTRIBUTED SOIL BLOCKS APPROXIMATELY 2-3 INCHES TALL AND COVERING APPROXIMATELY 2 PERCENT OF THE POOL BASIN FLOOR AREA.

5. ADDITIONAL SOILS FOR RESTORED VERNAL POOL INOCULATION WILL BE COLLECTED FROM OTHER POOLS ON THE AIRPORT PROPERTY (SEE MITIGATION PLAN FOR GENERAL LOCATION). NO MORE THAN 10,585 SQUARE FEET (I.E., 10 PERCENT OF THE PROPOSED 2.43 ACRE OF RESTORATION AREA) OF NATIVE POOL AREA MAY BE USED AS A DONOR SOURCE FOR INOCULUM FOR THE PROJECT IMPLEMENTATION. NO MORE THAN 5 PERCENT OF ANY DONOR POOL SHALL BE AFFECTED BY COLLECTION ACTIVITIES. DONOR POOL COLLECTIONS SHALL BE PERFORMED USING TWO METHODS AND SHALL BE STAGED. ONLY THE FIRST METHOD SHALL BE USED DURING THE INITIAL RESTORATION. THE SECOND METHOD MAY BE IMPLEMENTED AS INCIDENTAL ACTIVITIES IF NECESSARY DURING SUBSEQUENT MAINTENANCE PERIODS. ALL COLLECTION SHALL BE CONDUCTED BY HAND AND WILL NOT NEGATIVELY AFFECT POOL TOPOGRAPHY, SOILS, AND HYDROLOGY. ALL VEHICLES WILL BE STAGED ON ROADS OR DISTURBED UPLAND AREAS OUTSIDE VERNAL POOLS.

6. INOCULUM COLLECTION FROM DONOR POOLS DURING RESTORATION SHALL BE PERFORMED FOLLOWING A SCARIFYING RAKING OF NOT MORE THAN 4 PERCENT OF THE POOL BASINS (MULTIPLE SWATHS FROM SHALLOW TO DEEP PORTIONS OF THE BASINS). A SUCTION VACUUM WILL BE USED TO COLLECT LOOSENED SOIL, SEED, AND CYSTS. IT IS EXPECTED THAT APPROXIMATELY 3 CY OF SOIL, CONTAINING SEED AND CYSTS WILL BE COLLECTED IN THIS MANNER. THIS IS BASED ON AN ASSUMPTION OF THE TOP 0.25 INCHES OF SOIL BEING COLLECTED FROM SCARIFIED AREAS OF THE DONOR POOLS. ONE HALF OF THIS MATERIAL SHALL BE DISTRIBUTED UNIFORMLY WITHIN ALL POOL BASINS, IMMEDIATELY PRIOR TO THE FIRST SEASONAL RAINFALL. THE OTHER HALF OF THE MATERIAL SHALL BE HELD AND DISTRIBUTED IN POOLING BASINS AFTER THE MIDDLE OF THERAINY SEASON.

NAME

R.C.E. NO. XXXXX

DATE

**REVEGETATION CONT.** 

7. SEVERAL PILES OF MULCH OCCUR ALONG THE EDGE OF VERNAL POOL #34 (SEE MITIGATION PLAN FOR LOCATION, ALSO NEAR WEST END OF AIRFIELD BY STOCKPILED SOIL, SHEET 1). MULCH PILES ARE APPROXIMATELY 6 INCHES TALL AND ARE ANTICIPATED TO HOST FAIRY SHRIMP CYSTS. THIS MULCH SHALL BE REMOVED BY THE CONTRACTOR AND VIGOROUSLY RINSED OVER 0.25-INCH MESH SCREENS. THE FINER FRACTION PASSING THE SIEVES SHALL BE COLLECTED AND USED AS ADDITIONAL INOCULUM FOR THE CREATED POOLS. THE RESIDUAL MULCH THAT DID NOT PASS THE SCREEN SHALL BE PROP-ERLY DISPOSED OF OFFSITE.

8. NO INOCULUM SHALL BE INSTALLED UNTIL THE CORPS AND USFWS HAVE REVIEWED THE RESTORATION GRADING AND ACCEPTED THE GRADED CONDITIONS.

MAINTENANCE PERIOD INOCULUM COLLECTION

1. IF INADEQUATE RECRUITMENT OF VERNAL POOL PLANTS OR FAIRY SHRIMP OCCURS AFTER THE FIRST RAINY SEASON WHEN POOLS WERE CHARGED, THEN SEED AND FAIRY SHRIMP CYSTS SHALL BE COLLECTED FROM DONOR POOLS USING A SEDIMENT BLOCK TRANSLOCATION METHOD. NOT MORE THAN ONE PERCENT OF ANY GIVEN DONOR POOL MAY BE HARVESTED IN THIS MANNER, A HAND TROWEL OR SIMILAR INSTRUMENT WILL BE USED TO COLLECT SEDIMENT CONTAINING FAIRY SHRIMP CYSTS. WHENEVER POSSIBLE, SOIL WILL BE COLLECTED IN BLOCKS. THE TROWEL WILL BE USED TO PRY UP INTACT BLOCKS OF SEDIMENT (UP TO THREE INCHES BY THREE INCHES IN SIZE) RATHER THAN LOOSENING THE SOIL BY RAKING AND SHOVELING. THE BLOCKS OF SOIL WILL BE CAREFULLY PLACED WITHIN EACH RESTORED POOL, WITH THE SURFACE OF THE SALVAGED SOIL EVEN WITH THE SURFACE OF THE RESTORED POOL. THE CHUNKS OF SOIL FROM THE DONOR POOL WILL BE PLACED IN THE DEEPEST PORTIONS OF THE RESTORED POOLS. THE PRIMARY SOURCE OF FAIRY SHRIMP WILL COME FROM THE SEDIMENT THAT WAS PREVIOUSLY SALVAGED WITHIN IMPACTED AREAS OF VERNAL POOL #34.

2. SALVAGED INOCULUM SOIL WILL BE PLACED IN A MANNER THAT PRESERVES, TO THE MAXIMUM EXTENT POSSIBLE, THE ORIENTATION OF THE FAIRY SHRIMP CYSTS WITHIN THE SURFACE LAYER OF THE SOIL AT THE BOTTOM OF RESTORED POOLS. THIS WILL RESULT IN THE GREATEST CHANCE FOR THE MATERIAL TO BE INUNDATED DURING THE RAINY SEASON. SALVAGED SOIL BLOCK CYST INOCULUM WILL NOT BE INSTALLED WITHIN THE RESTORATION AREA UNTIL THE POOLS HAVE BEEN DEMON-STRATED TO RETAIN WATER FOR THE APPROPRIATE AMOUNT OF TIME TO SUPPORT SAN DIEGO FAIRY SHRIMP.

SEEDING

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, WITHIN 45 DAYS OF COMPLETION OF GRADING, EXCEPT AS DICTATED BY SEASONAL TIMING UNDER THE RESTORATION PLAN.

2. ALL DISTURBED AREAS MUST BE REVEGETATED, SUBSTANTIALLY GERMINATED, AND ESTABLISHED WITHIN 120 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION. THE SITE SHALL SHOW A MINIMUM OF 30 PERCENT COVER OF WHICH 50 PERCENT SHALL BE COMPRISED OF SEEDED SPECIES. ALL AREAS NOT EXHIBITING THESE COVERAGE REQUIREMENTS SHALL BE RE-SEEDED.

3. SEED MATERIALS AND QUANTIES ARE PROVIDED ON SHEET 7. THE SPECIES AND QUANTITIES LISTED FOR THE UPLAND PLANT PALETTE MAY CHANGE BASED ON AVAILABILITY OF MATERIAL. ANY CHANGE MUST BE APPROVED BY THE PROJECT BIOLOGIST AND WILL BE LIMITED TO SPECIES CURRENTLY OCCURRING WITHIN THE LOCAL SURROUNDING AREA (I.E., KEARNY MESA), NON-INVASIVE SPECIES, AND SPECIES THAT ARE BENEFICIAL TO THE DEVELOPMENT OF VERNAL POOL HABITAT.

4. UPLAND SEED SHALL BE ACQUIRED FROM A REPUTABLE SEED COLLECTOR OR COMMERCIAL SUPPLIER (E.G., S&S SEEDS). ANY CHANGES TO THE PROPOSED SEED MIX FOR THE PROJECT MUST BE APPROVED BY THE PROJECT BIOLOGIST.

5. UPLAND SEED SHALL BE APPLIED BY HAND-BROADCAST OR HYDROSEEDING TECHNIQUES. SEED SHALL BE APPLIED AT THE ONSET OF WINTER RAINS (OCTOBER-NOVEMBER). THIS SCHEDULE MAY BE MODIFIED BY MUTUAL AGREEMENT BETWEEN THE CONTRACTOR, CITY, AND THE PROJECT BIOLOGIST IF VARIATION IN SEASONAL RAINFALL DICTATES. SEEDING WILL BE TIMED TO FOLLOW NATURAL RAIN EVENTS TO ENSURE ADEQUATE SOIL MOISTURE. A WATER TRUCK MAY BE USED FOR SUPPLYING SUPPLEMENTAL WATER DURING THE RAINY SEASON TO FACILITATE ESTABLISHMENT OF THE UPLAND SEED MIX. THE SITE WILL BE SUBJECT TO A 120-DAY PLANT ESTABLISHMENT PERIOD (PEP) AND SHALL MEET VEGETATIVE CONDI-TIONS SPECIFIED IN #2 ABOVE BY THE END OF THE PEP.

6. IRRIGATION IS TO BE BY HAND (HOSE OR SPRAYER) USING A WATER TRUCK. IT SHALL OCCUR ONLY WHEN NECESSARY TO SUPPLEMENT NATURAL RAINFALL. A FIRE HYDRANT (P.O.C) FOR FILLING THE WATER TRUCK IS LOCATED ON PONDEROSA AVENUE JUST SOUTH OF THE GATE ENTRANCE TO THE SITE. NO AUTOMATIC TIMERS OR IRRIGATION LINE WILL BE INSTALLED, AND ONLY HOSE OR SPRAYERS WILL BE USED. WATERING THE SITE SHALL ONLY OCCUR WHEN NECESSARY TO SUPPLEMENT NATURAL RAINFALL. WATERING WILL ONLY OCCUR IN UPLAND AREAS TO ASSIST WITH SEED GERMINATION AND INITIAL ESTABLISHMENT OF THE SEED MIX. WATERING WILL ONLY BE CONDUCTED IN A MATTER THAT PREVENTS WATER FROM ENTERING THE POOLS. IF SEASONAL RAIN IS BELOW AVERAGE, WATERING MAY OCCUR AS FREQUENTLY AS ONCE EVERY 2 WEEKS FROM THE ONSET OF WINTER UNTIL THE END OF SPRING.

7. FOR THE VERNAL POOLS, WATERING WILL ONLY BE CONSIDERED IF THE VERNAL POOLS ARE DRYING OUT PREMATURELY AFTER WINTER/SPRING RAINS HAVE ACTIVATED THEM. ARTIFICIAL WATERING WILL NOT BE USED TO INITIATE PLANT GERMINA-TION. IF VERNAL POOLS UNDERGO GERMINATION AND ACTIVATION AS A RESULT OF NATURAL RAINFALL, BUT SEASONAL RAINFALL IS NOT ADEQUATE TO ALLOW THE PLANTS TO PROGRESS THROUGH TO FLOWERING AND SEED SET, ARTIFICIAL WATERING WILL BE CONSIDERED BY THE PROJECT BIOLOGIST. THE GOAL IS TO KEEP THE SOIL WET FOR PLANT SURVIVAL AND DEVELOPMENT WITHOUT CREATING LASTING PONDING. THE DECISION TO ARTIFICIALLY FILL PONDS SHOULD BE COOR-DINATED WITH THE USFWS BY THE PROJECT BIOLOGIST.

G-2

#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

NOIES

IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087

CITY OF SAN DIEGO, CALIFORNIA Development Services Department SHEET 2 OF 8 SHEETS					I.O. NO PROJECT NO
APPROVED					SUBMITTED BY:
FOR CITY ENGINEER			DATE		PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED	
					PROJECT ENGINEER
60% DESIGN	LYM	K. MERKEL	7-13-2015		
					CC327 COORDINATE
REVISIONS		8-26-2015		6,290,560 E, 1,877,680 N	
					NAD83 COORDINATE
CONTRACTOR	D/	ATE STARTE	D		
INSPECTOR	D/	ATE COMPLE	TED		



G-3

#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

EXISTING CONDITIONS IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087

CITY OF S Develo SHE	I.O. NO PROJECT NO				
APPROVED					SUBMITTED BY:
FOR CITY ENGINEER			DATE		PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED	
					PROJECT ENGINEER
60% DESIGN	LYM	K. MERKEL	7-13-2015		
					CC327 COORDINATE
REVISIONS	LYM/KLM	K. MERKEL	8-26-2015		6,290,560 E, 1,877,680 N
					NAD83 COORDINATE
CONTRACTOR					
INSPECTOR					



#### HORIZONTAL AND VERTICAL CONTROL:

- 1. THE RESTORATION SITE INCLUDES CONTOUR GRADING THAT INTEGRATES EXIST-ING TOPOGRAPHY WITH NEW FEATURES THAT MIMIC WELL DEVELOPED MIMA MOUND AND VERNAL POOL TOPOGRAPHY. THIS GRADING IS DERIVED FROM A REFERENCE SITE LOCATED TO THE SOUTH OF THE PROJECT SITE ALONG THE CONTRACTOR ACCESS ROAD.
- 2. ESTABLISHING STRINGENT HORIZONTAL CONTROL FOR SUCH GRADING IS EXCEP-TIONALLY COMPLICTED AND NOT AS IMPORTANT AS MAINTAINING STRINGENT INTERNAL VERTICAL CONTROLS AT KEY LOCATIONS SUCH AS BASIN FLOORS AND SILLS BETWEEN POOLS. FOR THIS REASON, HORIZONTAL CONTROL FOR THE PROJECT IS TO BE ACCOMPLISHED BY SCALING FROM THE PLAN SHEET WITHIN A RECTANGULAR CONTROL GRID ESTABLISHED IN THE STATE PLANE COORDINATE SYSTEM. THE SITE HAS BEEN DIVIDED INTO 80 FT X 80 FT GRID CELLS. THE CON-TRACTOR SHALL UTLIZE THE CONTROL GRID TO SCALE THE SHAPES AND POSI-TIONS OF MOUNDS AND POOLS TO LESS THAN +/-5 FEET HORIZONTAL ERROR, WHILE RETAINING THE OVERALL MASSING AND AREA OF THE FEATURES.
- 3. VERTICAL CONTROL SHALL BE BASED ON CONTOUR INTERVALS AS SHOWN WITH SMOOTH CURVATURE BEING DEVELOPED BETWEEN CONTOURS AND AT THE PEAKS OF MOUNDS AND FLOORS OF POOL BASINS. NUMERICALLY LABELED POINT ELEVATIONS DEPICT THE LOW POINTS OF POOL BASINS AND SILLS. WHERE ONLY ONE ELEVATION POINT OCCURS ON A SILL OR SADDLE BETWEEN POOLS, THE OTHER SILLS ARE INTENDED TO BE HIGHER IN ELEVATION. ARROWS DEPICT THE SPILL DIRECTION FOR WATERS WHEN BASIN FULL WATER SURFACE ELEVA-TIONS ARE ACHIEVED.
- 4. VERTICAL CONTROL SHALL BE BASED OFF OF A SITE SPECIFIC PRIMARY CONTROL WITH AN ASSIGNED ELEVATION DRAWN FROM THE BASE TOPOGRAPHY. ADDI-TIONAL CONTROL POINTS SHALL BE DEVELOPED ADJACENT TO THE GRADING LIMITS TO VERIFY THE INTERNAL CONSISTENCY OF THE TOPOGRAPHY. THESE POINTS ARE FOR EVALUATION PURPOSES ONLY AND SHALL NOT SUPERSEDE DESIGN FROM THE PRIMARY CONTROL.
- 5. UPON REQUEST, GEOREFERENCED SPATIAL DATA FILES WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR USE IN GPS POSITIONING.

#### DRAINAGE AND POOLING PATTERNS:

- 1. GRADING SHALL NOT INCLUDE ANY EXCAVATIONS MADE WITHIN 20-FOOT WIDE UTILITY CORRIDORS. MINOR SOIL FILLS MAY BE PLACED IN THESE CORRIDORS TO ENSURE THAT POOLING DOES NOT OCCUR OVER UTILITY CORRIDORS. THE LOCA-TION OF THESE FILLS WILL REQUIRE APPROVAL BY THE CITY AND THE PROJECT BIOLOGIST PRIOR TO THEIR PLACEMENT.
- 2. THE SITE SLOPES GRADUALLY TO THE WEST AND THUS OVER-FLOW OF VERNAL POOL BASINS THAT REACH CAPACITY WILL SPILL TO DOWNSTREAM BASINS IN A GENERAL WESTERLY DIRECTION. POOLING IS NOT INTENDED TO OCCUR ON THE UTILITY CORRIDORS, NOR ARE SPILLING FLOWS INTENDED TO CROSS THE UTIL-ITY CORRIDORS. IN THE EVENT THIS WOULD OCCUR, ADJUSTMENTS IN SILL ELEVATIONS OR UTILITY CORRIDOR ELEVATIONS WOULD BE DIRECTED BY THE PROJECT BIOLOGIST.
- 3. THE PROJECT SITE INTERCEPTS SHEET FLOW FROM WATERSHEDS ADJACENT TO THE RESTORATION SITE. THIS IS TO BE MAINTAINED IN THE DESIGN. FOR THIS REASON, SMALL RIDGES OR TIRE RUTS DEVELOPED BY THE CONTRACTOR SHALL BE ELIMINATED AND ANY INCIDENTAL DIVERSION OF SHEET FLOWS SHALL BE REMOVED SUCH THAT FLOWS MAY TRAVERSE FREELY INTO THE RESTORATION SITE FROM ADJACENT LANDS.

HR-1	
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#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

GRADING AND POOLING PLAN IN SATISFACTION OF ACCE PERMIT #2009-00892-RRS AND USEWS BO FWS-SDG-10B0076-14F0087

CITY OF S Develop SHE	I.O. NO PROJECT NO				
APPROVED					SUBMITTED BY:
FOR CITY ENGINEER			DATE		PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED	CHECKED BY:
					PROJECT ENGINEER
60% DESIGN	LYM	K. MERKEL	7-13-2015		
					CCS27 COORDINATE
REVISIONS	I YM/KI M	K. MERKEI	8-26-2015		6,290,560 E, 1,877,680 N
			0 20 2010		NAD83 COORDINATE
CONTRACTOR DATE STARTED					
INSPECTOR	D/	ATE COMPLE	TED		

![](_page_4_Figure_0.jpeg)

HR-2

#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

CITY OF S Develo SHE	I.O. NO PROJECT NO				
FOR CITY ENGINEER			DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED	
60% DESIGN	LYM	K. MERKEL	7-13-2015		CCS27 COORDINATE
REVISIONS	LYM/KLM	K. MERKEL	8-26-2015		6,290,560 E, 1,877,680 N NAD83 COORDINATE
CONTRACTOR INSPECTOR	D.	ATE STARTE ATE COMPLE	D		

![](_page_5_Figure_0.jpeg)

IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-1	MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN CROSS-SECTIONS IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087						
CITY OF SAN DIEGO, CALIFORNIA   I.O. NO     Development Services Department   SHEET 6 OF 8 SHEETS     PROJECT N	NO						
APPROVED SUBMITTED BY:   FOR CITY ENGINEER DATE   PROJ	JECT MANAGER						
DESCRIPTION BY APPROVED DATE FILMED	JECT ENGINEER						
60% DESIGN LYM K. MERKEL 7-13-2015	27 COORDINATE						
REVISIONS     LYM/KLM     K. MERKEL     8-26-2015     6,290,56       NAD8	560 E, 1,877,680 N 33 COORDINATE						
CONTRACTOR   DATE STARTED     INSPECTOR   DATE COMPLETED							

HR-3

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![](_page_6_Figure_0.jpeg)

#### PLANTING NOTES:

- 1. PLANTING IS TO BE PERFORMED BY SEEDING OF UPLAND RESTORATION AREAS INCLUDING CREATED AND ENHANCED MIMA MOUNDS AND DISTURBED UTILITY CORRIDORS. SEEDING SHALL CONSIST OF HAND BROADCAST AND RAKING IN OF SEED.
- 2. SEEDING SHALL BE CONDUCTED FOLLOWING COMMENCEMENT OF THE NATURAL RAINY SEASON IN ORDER TO TAKE ADVANTAGE OF RAINS FOR GERMINATION AND ESTABLISHMENT.
- 3. SEED TO BE INCLUDED IN THE UPLAND SEEDING SHALL CONSIST OF THE FOLLOWING SPECIES AND APPLICATION RATES. APPLICATION RATES ARE CONSIDERED TO BE PURE LIVE SEED EQUIVALENCE. SEED SHALL BE HARVESTED FROM COASTAL SOUTHERN CALIFORNIA AND SHALL BE DERIVED FROM WITHIN 20 MILES OF THE SITE UNLESS IT IS DEMONSTRATED THAT SUCH SEED IS NOT COMMERCIALLY AVAILABLE FROM ESTABLISHED SUPPLIERS WITHOUT CUSTOM SEED COLLECTION. FOR UPLAND SEED ESTIMATES THE UPLAND AREA SHOULD BE ASSUMED TO TOTAL 4.53 ACRES.

SEED MIX AND APPLICATION RATES	RESTORATION AREA	
SCIENTIFIC NAME	COMMON NAME	APPLICATION RATE
		(POUNDS/ACRE)
DEINANDRA FASCICULATA	GOLDEN TARPLANT	1.0
GNAPHALIUM CALIFORNICUM	GREEN EVERLASTING	0.5
HOLOCARPHA VIRGATA ELONGATA	GRACEFUL TAR PLANT	1.5
ACMISPON SCOPARIUS	DEERWEED	0.5
LUPINUS SUCCULENTUS	ARROYO LUPINE	0.5
STIPA PULCHRA	PURPLE NEEDLEGRASS	2.5
SISYRINCHIUM BELLUM	BLUE-EYED GRASS	1.0

- 4. VERNAL POOL BASIN AREAS TOTALING AN ESTIMATED 2.43 ACRES ARE TO BE SEEDED WITH INNOCULUM COLLECTED FROM DONOR POOLS ON THE AIRPORT PROPERTY LOCATED TO THE SOUTHEAST OF THE RESTORATION AREA (SHEET 1). AS WELL AS SEED BANK WITHIN TOPSOIL SALVAGED FROM POOL #34 THAT IS STOCKPILED AT THE WEST END OF THE AIRPORT AND MULCH RINSATE DERIVED FROM MULCH TO BE REMOVED FROM POOL #34. SEE SHEET 2 FOR INFORMATION ON INNOCULUM COLLECTION AND HANDLING. .
- 5. VERNAL POOL PLANT SPECIES ANTICIPATED TO BE INTRODUCED THROUGH POOL INNOCULA-TION INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

SEEDING LIST FOR VERNAL POOL RESTORATION AREA

SCIENTIFIC NAME	COMMON NAME
CRASSULA AQUATICA	WATER PYGMYWEED
JUNCUS BUFONIUS	TOAD RUSH
PLANTAGO BIGELOVII	<b>BIGELOW'S PLANTAIN</b>
PLAGIOBOTHRYS ACANTHOCARPUS	ADOBE ALLOCARYA
PSILOCARPHUS BREVISSIMUS VAR. BREVISSIMUS	DWARF-WOOLY HEADS

- 6. SALVAGED SOIL FROM POOL #34 SHALL BE INTRODUCED FOLLOWING COMPLETION OF FINAL GRADING AND PLACEMENT OF TOP SOIL AND PRIOR TO THE ONSET OF WINTER RAINS. SAL-VAGED POOL SOIL SHALL BE DISTRIBUTED APPROXIMATELY EVENLY ACROSS THE POOLS FROM THE LOWEST POOL ELEVATIONS TO APPROXIMATELY <sup>3</sup>/<sub>4</sub> OF THE WAY UP TO POOL SPILL-WAY ELEVATIONS.
- 7. ONE HALF OF THE ACCUMULATED MULCH RINSATE AND INNOCULUM COLLECTED FROM DONOR POOLS SHALL BE DISTRIBUTED INTO POOLS RETAINING SOME WATER DURING THE FIRST HALF OF THE FIRST RAINY SEASON. THIS MATERIAL SHALL BE DISTRIBUTED BOTH WITHIN AND ABOVE THE POOL ELEVATIONS, THE RESIDUAL INNOCULUM SHALL BE HELD UNTIL THE MIDDLE OF THE RAINY SEASON AND SHALL BE DISTRIBUTED INTO POOLS RETAINING WATER AT THAT TIME.
- 8. A 120-DAY PLANT ESTABLISHMENT PERIOD (PEP) WILL COMMENCE UPON SEEDING IN THE ACTIVE RESTORATION AREAS. DURING THIS PERIOD, RELATIVELY INTENSIVE MAINTENANCE ACTIVITIES WILL BE CONDUCTED TO AID IN THE ESTABLISHMENT OF THE RESTORATION UNDER THE DIRECTION OF THE RESTORATION BIOLOGIST. THE MAINTENANCE CREW WILL CONTROL EMERGING INVASIVE WEEDS AND REMOVE ANY TRASH FROM THE RESTORATION SITES. WEEDING OF THE SITE WILL OCCUR MONTHLY DURING THE PEP UNLESS DIRECTED BY THE PROJECT BIOLOGIST. 120-DAYS FOLLOWING SEED APPLICATION UPLAND AREAS SHALL EXHIBIT 30 PERCENT COVER OF WHICH 50 PERCENT SHALL BE COMPRISED OF SEEDED SPECIES. ALL AREAS NOT EXHIBITING THESE COVERAGE REQUIREMENTS SHALL BE RE-SEEDED. IN ADDITION, NO AREAS SHALL EXHIBIT EROSION. ANY EROSIVE AREA WILL BE REPAIRED AND CORRECTED TO AVOID POTENTIAL EROSION PROBLEMS.

HR-4

MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN PLANTING PLAN IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087						
CITY OF SAN DIEGO, CALIFORNIA Development Services Department SHEET 7 OF 8 SHEETS				I.O. NO PROJECT NO		
APPROVED FOR CITY ENGINEER			DATE		SUBMITTED BY: PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILMED		
60% DESIGN	LYM	K. MERKEL	7-13-2015		CCS27 COORDINATE	
REVISIONS	LYM/KLM	K. MERKEL	8-26-2015		6,290,560 E, 1,877,680 N NAD83 COORDINATE	
 CONTRACTOR INSPECTOR	D,	ATE STARTE ATE COMPLE	D			

![](_page_7_Figure_0.jpeg)

#### NOTES:

- 1. THE SITE IS DESIGNED TO RESULT IN HIGH RUNOFF RATES FROM MIMA MOUNDS TO INTERNAL VERNAL POOL BASINS. THE MAJORITY OF THE RUNOFF WILL COL-LECT IN THE VERNAL POOL BASINS. HOWEVER, UNDER VERY WET YEARS WHERE POOLS HAVE FULLY CHARGED, POOLS WILL SPILL FROM ONE TO ANOTHER WITH THE GENERAL FLOW BEING TO THE WEST. DISRUPTION OR MODIFICATION OF RUNOFF PATTERNS WITHIN THE MICRO-WATERSHEDS IS UNDESIREABLE AND COUNTER TO THE INTENDED PURPOSE OF THE RESTORATION. FOR THIS REASON, WATER QUALITY CONTROL MEASURES ARE PROPOSED TO BE INSTALLED ONLY AT THE DISCHARGE LOCATIONS FROM THE RESTORATION SITE.
- 2. FIBER ROLLS SHALL BE PLACED SURFACE PLACED (HEAVILY STAKED WITHOUT EMBEDMENT) ALONG THE IDENTIFIED SILT FENCE ALIGNMENT AND SHALL REMAIN IN PLACE THROUGH THE 5-YEAR POST-RESTORATION MONITORING PROGRAM. THESE ROLLS WILL BE REMOVED AND DISPOSED OF AT THE END OF THE 5-YEAR MONITORNG PROGRAM AT THE DIRECTION OF THE PROJECT BIOLOGIST.
- 3. IN THE EVENT, GRADING AND OTHER GROUND DISTURBING CONTRUCTION ACTIVITIES EXTENDS BEYOND OCTOBER 1, THEN A FULLY EMBEDDED SILT FENCE SHALL BE CONSTRUCTED ALONG THE SILT FENCE ALIGNMENT DOWNSTREAM OF THE FIBER ROLL. THE SILT FENCE SHALL ONLY BE PLACED IN THE EVENT OF EXTENDED CONSTRUCTION INTO THE RAINY SEASON AND SHALL BE REMOVED AT THE DIRECTION OF THE PROJECT BIOLOGIST AFTER THE FIRST YEAR POST-CONSTRUCTION.
- IN THE EVENT CONSTRUCTION EXTENDS PAST OCTOBER 1, THEN FIBER ROLLS SHALL BE PLACED AROUND ANY STOCKPILED MATERIALS THAT MAY DISCHARGE SEDIMENT. STOCKPILED INOCULUM COLLECTED FROM POOL #34 OR OTHER DONOR POOLS SHALL BE KEPT DRY AND OUT OF THE ELEMENTS, BUT SHALL NOT BE TIGHTLY TARPED IN ORDER TO PREVENT MOLD DEVELOPMENT OR COMPOST-ING OF MATERIAL. 5.
- THE CONTRACTOR SHALL ADHERE TO STANDARD BEST MANAGEMENT PRAC-TICES FOR CONTROLLING WASTE AND SEDIMENT DISCHARGE FROM THE SITE THROUGH EITHER STORMWATER RUN-OFF OR WIND-BLOWN PROCESSES. THE CONTRACTOR SHALL ADHERE TO SWPPP REQUIREMENTS AND SHALL NOTE ANY CONFLICTS BETWEEN THE PROVISIONS OF THESE PLANS AND THE SWPPP. IN GENERAL, THE HIGHEST DEGREE OF REQUIREMENTS BETWEEN THE TWO DOCU-MENTS SHALL APPLY. HOWEVER, EXCAVATIONS OR TEMPORARY WATER DIVER-SION CALLED FOR IN THE SWPPP MAY CONFLICT WITH OBJECTIVES OF GENERAT-ING RUN-OFF TO POOLS AND MAINTAINING FUNCTIONALITY OF SHEET DRAINAGE PATTERNS TO FILL AND SUSTAIN POOLS AND POOL LINKAGE. IF THE CONTRAC-TOR BELIEVES CONFLICTS EXIST, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND PROJECT BIOLOGIST FOR RESOLUTION.

# FIBER ROLL DETAIL

FILTREXX FILTER SOXX OR EQUIVALENT SURFACE PLACEMENT POROUS FILTER ROLL

Liakoliakoliakoliaki

12" MIN

WQ-1

#### MONTGOMERY FIELD LOCALIZER PROJECT VERNAL POOL MITIGATION PLAN

STORMWATER MANAGEMENT PLAN IN SATISFACTION OF ACOE PERMIT #2009-00892-RRS AND USFWS BO FWS-SDG-10B0076-14F0087

CITY OF S Develo SHE	I.O. NO PROJECT NO				
APPROVED			DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED	
60% DESIGN	LYM	K. MERKEL	7-13-2015		CCS27 COORDINATE
REVISIONS	LYM/KLM	K. MERKEL	8-26-2015		6,290,560 E, 1,877,680 N NAD83 COORDINATE
CONTRACTOR INSPECTOR					