BURNS & MCDONNELL ENGINEERING CO., INC.

MOOSA CREEK RIPARIAN RESTORATION PROJECT

BONSALL, CALIFORNIA

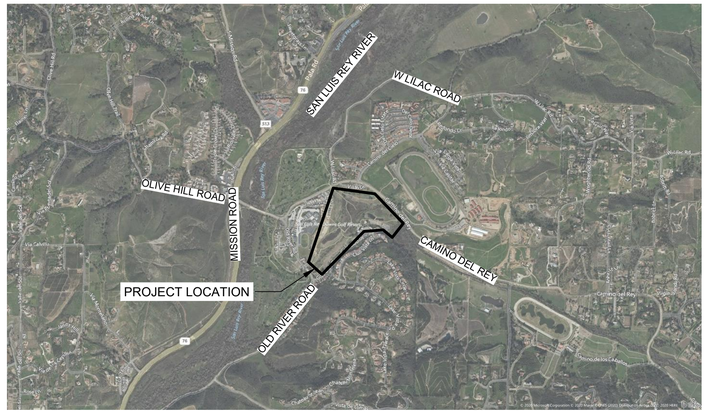
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Contract Drawings

MARCH 2021

118796



VICINITY MAP

0 2000' 4000'

SCALE IN FEET

THOMAS GUIDE PAGES 1068 A-1 AND 1068 A-2

REGISTERED PROFESSIONAL ENGINEER
AARON J. CHRISTENSEN
C86811
CIVIL
STATE OF CALIFORNIA

Christensen, Aaron
Glendale, CA
achristensen@burnsmcd.com
2021.03.17 17:55:40-07'00'

AARON CHRISTENSEN P.E
ENVIRONMENTAL ENGINEER
LICENSE NO. C86811

no.	date	by	ckd	description
A	3/04/21	SRL	XX	ISSUED FOR PERMIT

BURNS McDONNELL

4225 EXECUTIVE SQUARE #500
LA JOLLA, CA 92037
858-320-2920
LICENSEE NO. 000165

PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT DESCRIPTION

1. RESTORATION OF OF THE RIPARIAN, UPLAND RIPARIAN, AND FLOODPLAIN HABITAT OF MOOSA CANYON CREEK WITHIN THE PROJECT BOUNDARY.
2. REMOVAL OF EXISTING GOLF COURSE INFRASTRUCTURE (INCLUDING CART PATHS, BRIDGES, SMALL BUILDING STRUCTURE, AND TENNIS COURTS).
3. GRADING ACTIVITIES INCLUDING THE WIDENING OF THE EXISTING MOOSA CANYON CREEK, RE-CHANNELIZATION, AND PERMANENT STOCKPILING.
4. RE-PLANTING THE PROJECT SITE WITH NATIVE SPECIES

GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
3. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
4. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

SAN DIEGO GAS & ELECTRIC:	TELEPHONE NO. 800-411-7343
PACIFIC TELEPHONE:	TELEPHONE NO: 510-645-2929
CATV:	TELEPHONE NO: 800-290-6623
SEWER:	TELEPHONE NO: 760-281-1178
WATER:	TELEPHONE NO: 760-281-1178

6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
7. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
8. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410), ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND LAND USE.
9. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 6:00 PM EACH DAY, MONDAY THRU SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
10. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
11. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDIANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICTED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
12. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECIEVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS.
13. ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-10, DS-11, AND D-75.
14. FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE. (APPROVAL OF ROUGH GRADING DOES NOT CERTIFY FINISH BECAUSE OF POTENTIAL SURFACE DRAINAGE PROBLEMS THAT MAY BE CREATED BY LANDSCAPING ACCOMPLISHED AFTER ROUGH GRADING CERTIFICATION.

PERMITTING NOTES

THE FOLLOWING PERMITS HAVE BEEN/WILL BE OBTAINED PRIOR TO CONSTRUCTION.

1. U.S. ARMY CORPS OF ENGINEERS: SECTION 404, NATIONWIDE PERMIT 27- AQUATIC HABITAT RESTORATION, ENHANCEMENT, AND ESTABLISHMENT ACTIVITIES.
2. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD: SECTION 401- WATER QUALITY CERTIFICATION.
3. CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE: SECTION 1600- LAKE AND STREAMBED ALTERATION AGREEMENT. SECTION 2081- CALIFORNIA ENDANGERED SPECIES ACT CONSISTENCY DETERMINATION.
4. U.S. FISH AND WILDLIFE SERVICE: SECTION 7 CONSULTATION (APPROVED BIOLOGICAL OPINION REFERENCE NUMBER BO#FWS-MCBCP-15B0299-1649)

EROSION CONTROL NOTES

1. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1 ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS BETWEEN OCTOBER 1 AND APRIL 15. APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEM SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES:

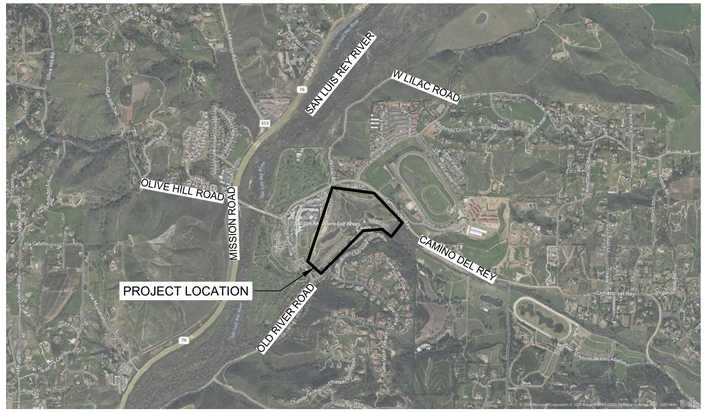
1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
5. PROVIDE A SANDBAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
6. SANDBAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
7. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
8. PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR FROM IMPERVIOUS SURFACES.
9. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES: I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

STORMWATER PROTECTION NOTES

1. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMOSTRATING TO THE SAN DIEGO COUNTY DPW DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LON-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. A NOTICE OF INTENT (NOI) WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

BMP NOTES

1. SEE SHEETS C010 AND C011 FOR WATER POLLUTION CONTROL PLANS.
2. SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SIDE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 4 SC-1.
3. TYPE 2 FIBER ROLL SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 4 SC-5.
4. ROLLED EROSION CONTROL MATS SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 3 SS-7.
5. TYPE 2 FIBER ROLL CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH " CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 4 SC-4.
6. INSTALL TEMPORARY CONSTRUCTION ROADWAYS ON AN AS-NEEDED BASIS DICTATED BY SITE CONDITIONS. TEMPORARY CONSTRUCTION ROADWAYS SHALL BE INSTALLED IN ACCORDANCE WITH " CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-4.
7. ALL CHEMICAL/ HAZARDOUS MATERIAL SPILLS SHALL BE PREVENTED AND CONTROLLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-4.
8. ALL SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES DETAILED IN "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-5 SHALL BE FOLLOWED.
9. ALL HAZARDOUS WASTE MATERIAL SHALL BE MANAGED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-6.
10. CONTRACTOR SHALL CONSERVE NATURAL FEATURES OF THE SITE WHERE POSSIBLE ACCORDING TO THE DESIGN CONSIDERATIONS DETAILED IN THE "COUNTY OF SAN DIEGO BMP DESIGN MANUAL" SD-G.
11. STABILIZED CONSTRUCTION ENTRANCE/ EXIT SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 6 TC-1.
12. ENTRANCE/ OUTLET TIRE WASH SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 6 TC-3.
13. MATERIAL DELIVERY AND STORAGE AREA SHALL BE INSTALLED IN ACCORDANCE WITH "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-1.
14. SANITARY AND SEPTIC WASTE MANAGEMENT PRACTICES DETAILED IN "CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL" SECTION 8 WM-9 SHALL BE FOLLOWED.



VICINITY MAP

0 2000' 4000'

SCALE IN FEET

THOMAS GUIDE PAGES 1068 A-1 AND 1068 A-2

N

OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

SHORT LEGAL DESCIPTION: PARCEL B OF CERTIFICATE OF COMPLIANCE RECORDED NOVEMBER 20, 2014 AS INSTRUMENT NO. 2014-0508286 OF OFFICIAL RECORDS.

A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL: _____

DATE: _____

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE: _____

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

_____ DIRECTOR

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXCERCISED 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 SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITES FOR PROJECT DESIGN

BY: AARON CHRISTENSEN DATE: _____

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY: _____

DATE: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

WATER AGENCY

APPROVED BY: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
02		

GRADING PLAN FOR:

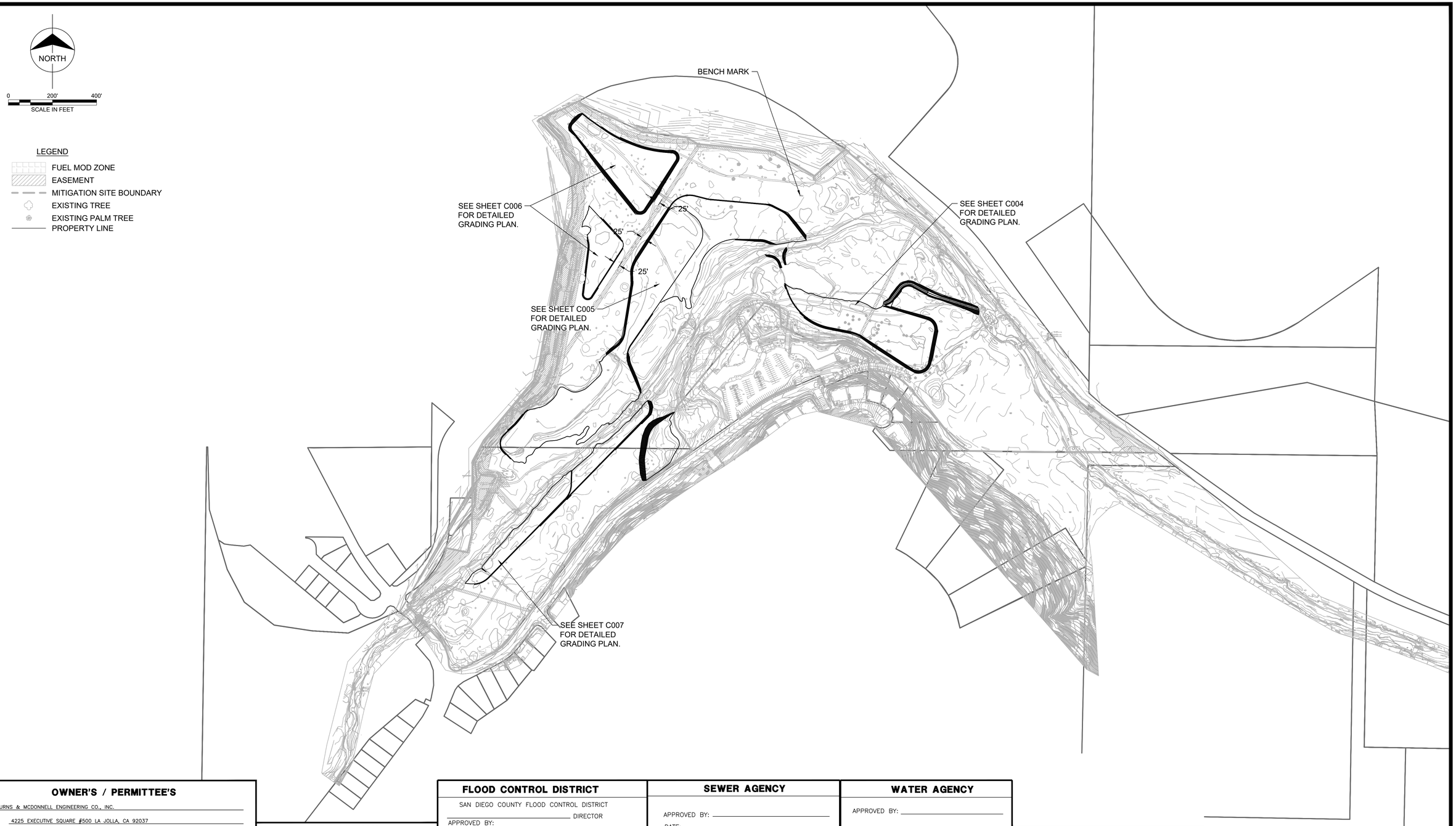
MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING GRADING PERMIT NO:



OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

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SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

DIRECTOR

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APPROVED BY:

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APPROVED BY:

DATE:

WATER AGENCY

APPROVED BY:

DATE:

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
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PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

TENTATIVE MAP NO.

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PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
03		

GRADING PLAN FOR:

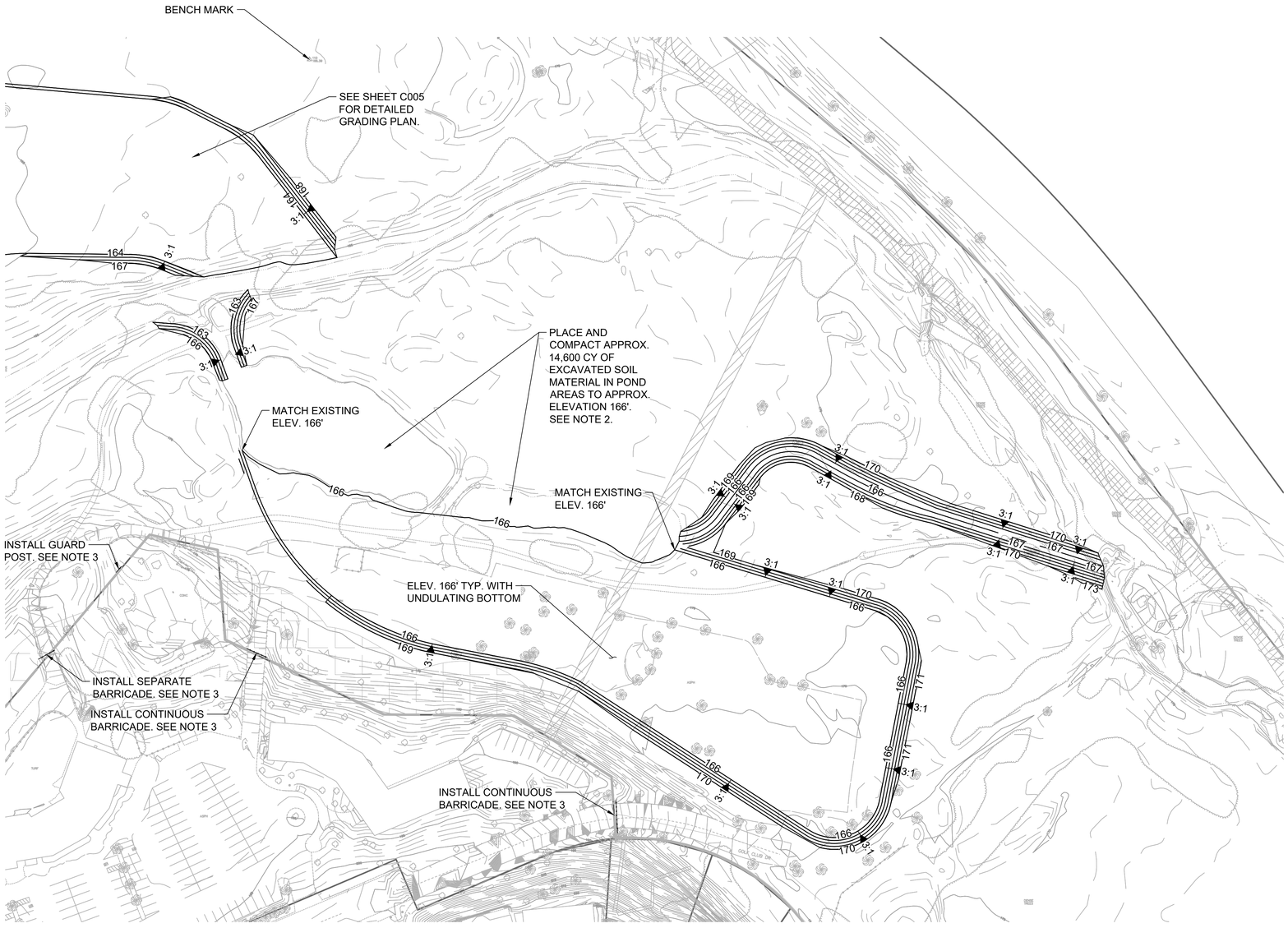
MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:



LEGEND

- FUEL MOD ZONE
- EASEMENT
- MITIGATION SITE BOUNDARY
- 166 PROPOSED CONTOUR
- 3:1 SLOPE INDICATOR
- EXISTING TREE
- EXISTING PALM TREE
- PROPERTY LINE
- BARRICADE (SEE NOTE 3)

NOTES:

1. SEE SHEETS C008 AND C009 FOR REMOVALS.
2. SOIL FILL MATERIALS SHALL BE PLACED AND COMPACTED IN 12-INCH LIFTS. UNIFORM COMPACTION SHALL BE ACHIEVED BY TRACKING CONSTRUCTION EQUIPMENT USED FOR PLACEMENT ACROSS FILL SITES.
3. GUARD POST AND BARRICADES SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING M-09.

OWNER'S / PERMITTEE'S

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LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
04		

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:

LEGEND

- FUEL MOD ZONE
- EASEMENT
- MITIGATION SITE BOUNDARY
- 166 — PROPOSED CONTOUR
- 3:1 — SLOPE INDICATOR
- EXISTING TREE
- EXISTING PALM TREE
- PROPERTY LINE
- BARRICADE (SEE NOTE 2)

NORTH

0 60' 120'
SCALE IN FEET

NOTES:

1. SEE SHEETS C008 AND C009 FOR REMOVALS.
2. GUARD POSTS AND BARRICADES SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING M-09.

SEE SHEET C006 FOR DETAILED GRADING PLAN.

ELEV. 163' TYP. WITH UNDULATING BOTTOM

ELEV. 164' TYP. WITH UNDULATING BOTTOM

BENCH MARK

DO NOT DISTURB EXISTING POND AREA.

MATCH EXISTING ELEV. 163'

MATCH EXISTING ELEV. 164'

MATCH EXISTING ELEV. 166'

INSTALL GUARD POST. SEE NOTE 2

INSTALL SEPARATE BARRICADE. SEE NOTE 2

INSTALL CONTINUOUS BARRICADE. SEE NOTE 2

SEE SHEET C007 FOR DETAILED GRADING PLAN.

SEE SHEET C004 FOR DETAILED GRADING PLAN.

OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

SHORT LEGAL DESCIPTION: PARCEL B OF CERTIFICATE OF COMPLIANCE RECORDED NOVEMBER 20, 2014 AS INSTRUMENT NO. 2014-0508286 OF OFFICIAL RECORDS.

A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL: _____

DATE: _____

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE: _____

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

_____ DIRECTOR

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXCERCISED 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 SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITES FOR PROJECT DESIGN

BY: AARON CHRISTENSEN DATE: _____

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY: _____

DATE: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

WATER AGENCY

APPROVED BY: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO	
05	DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

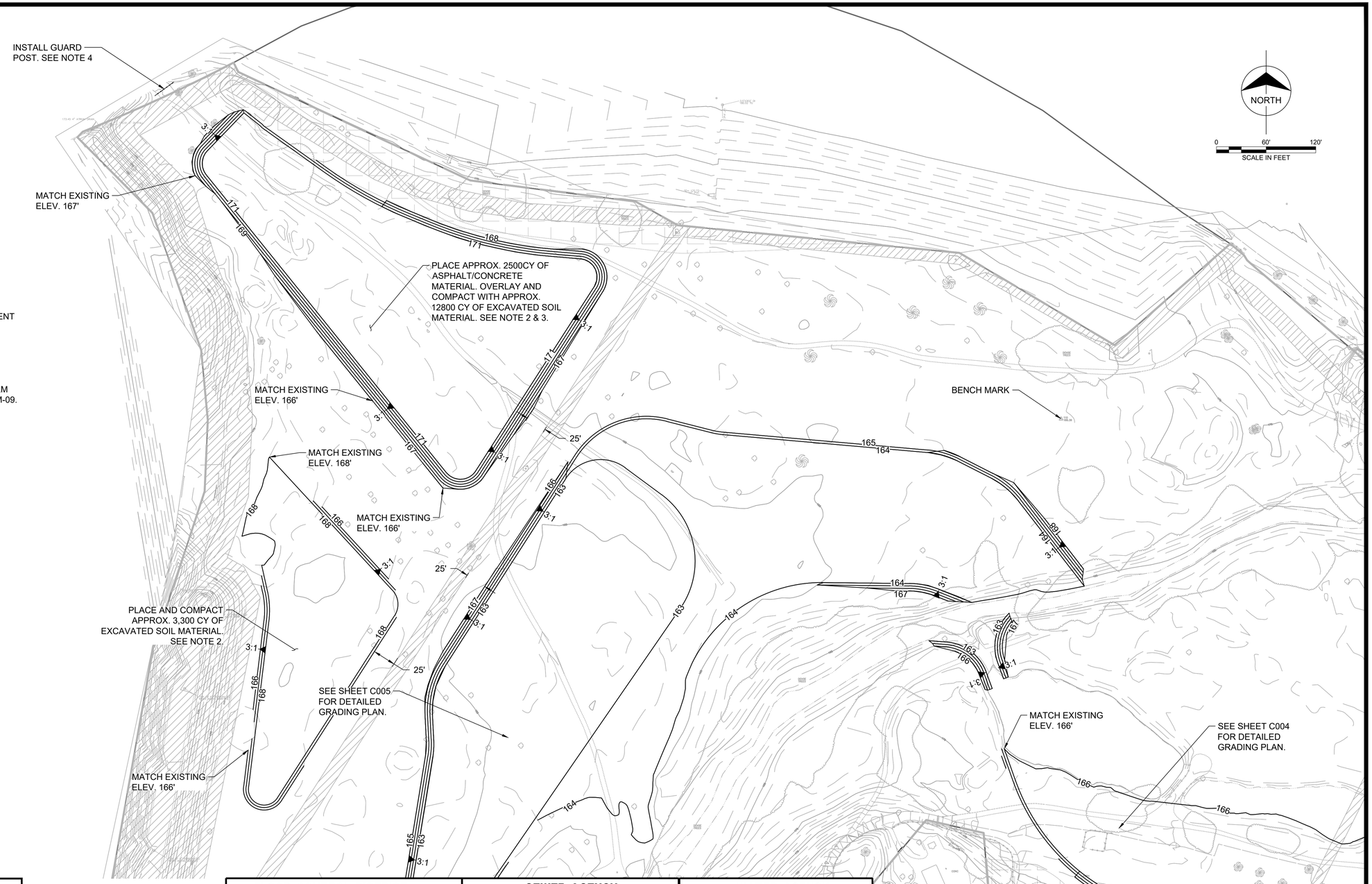
PDS2021-LDGRAJ-30327 – MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:

LEGEND

- FUEL MOD ZONE
- EASEMENT
- MITIGATION SITE BOUNDARY
- 166 PROPOSED CONTOUR
- 3:1 SLOPE INDICATOR
- EXISTING TREE
- EXISTING PALM TREE
- PROPERTY LINE
- BARRICADE (SEE NOTE 4)

NOTES:

1. SEE SHEETS C008 AND C009 FOR REMOVALS.
2. SOIL FILL MATERIALS SHALL BE PLACED AND COMPACTED IN 12-INCH LIFTS. UNIFORM COMPACTION SHALL BE ACHIEVED BY TRACKING CONSTRUCTION EQUIPMENT USED FOR PLACEMENT ACROSS FILL SITES.
3. A MINIMUM OF 2-FEET OF COMPACTED SOIL MATERIAL IS REQUIRED ON TOP OF ALL CONCRETE/ASPHALT SPOIL AREAS.
4. GUARD POSTS AND BARRICADES SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING M-09.



OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

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A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL:

DATE:

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE:

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

DIRECTOR

APPROVED BY:

DATE:

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BY: AARON CHRISTENSEN DATE:

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY:

DATE:

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY:

DATE:

WATER AGENCY

APPROVED BY:

DATE:

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

TENTATIVE MAP NO.

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
06		

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING GRADING PERMIT NO:

LEGEND

- FUEL MOD ZONE
- EASEMENT
- MITIGATION SITE BOUNDARY
- 166 PROPOSED CONTOUR
- 3:1 SLOPE INDICATOR
- EXISTING TREE
- EXISTING PALM TREE
- PROPERTY LINE
- BARRICADE (SEE NOTE 4)

NOTES:

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2. SOIL FILL MATERIALS SHALL BE PLACED AND COMPACTED IN 12-INCH LIFTS. UNIFORM COMPACTION SHALL BE ACHIEVED BY TRACKING CONSTRUCTION EQUIPMENT USED FOR PLACEMENT ACROSS FILL SITES.
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4. GUARD POSTS AND BARRICADES SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING M-09.

NORTH

0 60' 120'
SCALE IN FEET

MATCH EXISTING ELEV. 163'

SEE SHEET C005 FOR DETAILED GRADING PLAN.

MATCH EXISTING ELEV. 163'

MATCH EXISTING ELEV. 163'

MATCH EXISTING ELEV. 159'

MATCH EXISTING ELEV. 160'

INSTALL CONTINUOUS BARRICADE. SEE NOTE 4

INSTALL SEPARATE BARRICADE. SEE NOTE 4

MATCH EXISTING ELEV. 163'

ELEV. 160' TYP. WITH UNDULATING BOTTOM

MATCH EXISTING ELEV. 159'

INSTALL SEPARATE BARRICADE. SEE NOTE 4

ELEV. 159' TYP. WITH UNDULATING BOTTOM

MATCH EXISTING ELEV. 172'

PLACE APPROX. 3000 CY OF ASPHALT/CONCRETE MATERIAL. OVERLAY AND COMPACT WITH APPROX. 2600 CY OF EXCAVATED SOIL MATERIAL. SEE NOTES 2 & 3.

MATCH EXISTING ELEV. 164'

MATCH EXISTING ELEV. 172'

GOLF CLUB DR

OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

SHORT LEGAL DESCIPTION: PARCEL B OF CERTIFICATE OF COMPLIANCE RECORDED NOVEMBER 20, 2014 AS INSTRUMENT NO. 2014-0508286 OF OFFICIAL RECORDS.

A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL:

DATE:

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE:

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

DIRECTOR

APPROVED BY:

DATE:

DECLARATION OF RESPONSIBLE CHARGE

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BY: AARON CHRISTENSEN DATE:

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY:

DATE:

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY:

DATE:

WATER AGENCY

APPROVED BY:

DATE:

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

TENTATIVE MAP NO.

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET		
07	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

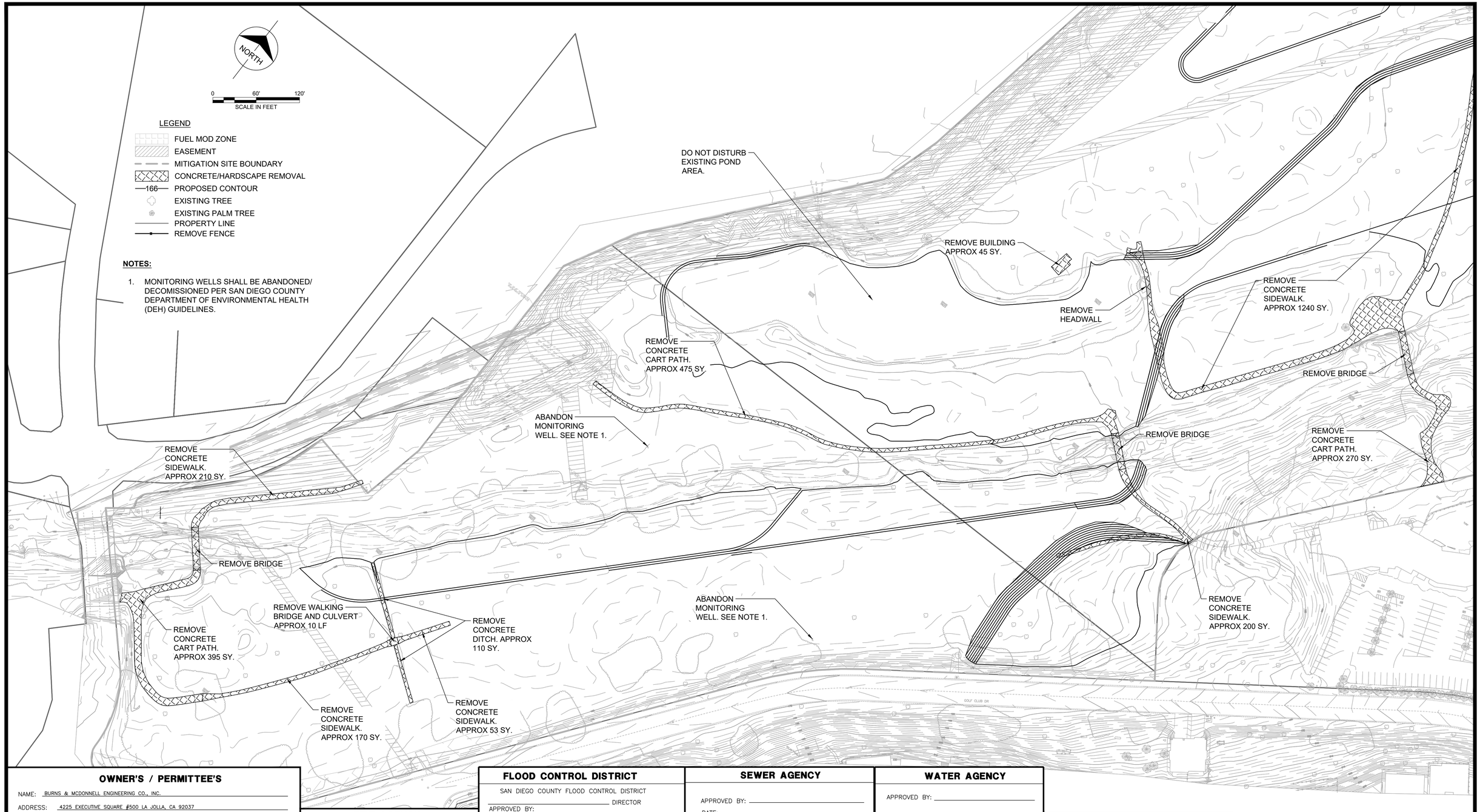
MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 – MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:



OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

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A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL:

DATE:

RECORD PLAN

BY: AARON CHRISTENSEN NAME DATE:

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

DIRECTOR

APPROVED BY:

DATE:

DECLARATION OF RESPONSIBLE CHARGE

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BY: AARON CHRISTENSEN DATE:

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY:

DATE:

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY:

DATE:

WATER AGENCY

APPROVED BY:

DATE:

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

TENTATIVE MAP NO.

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET 08	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

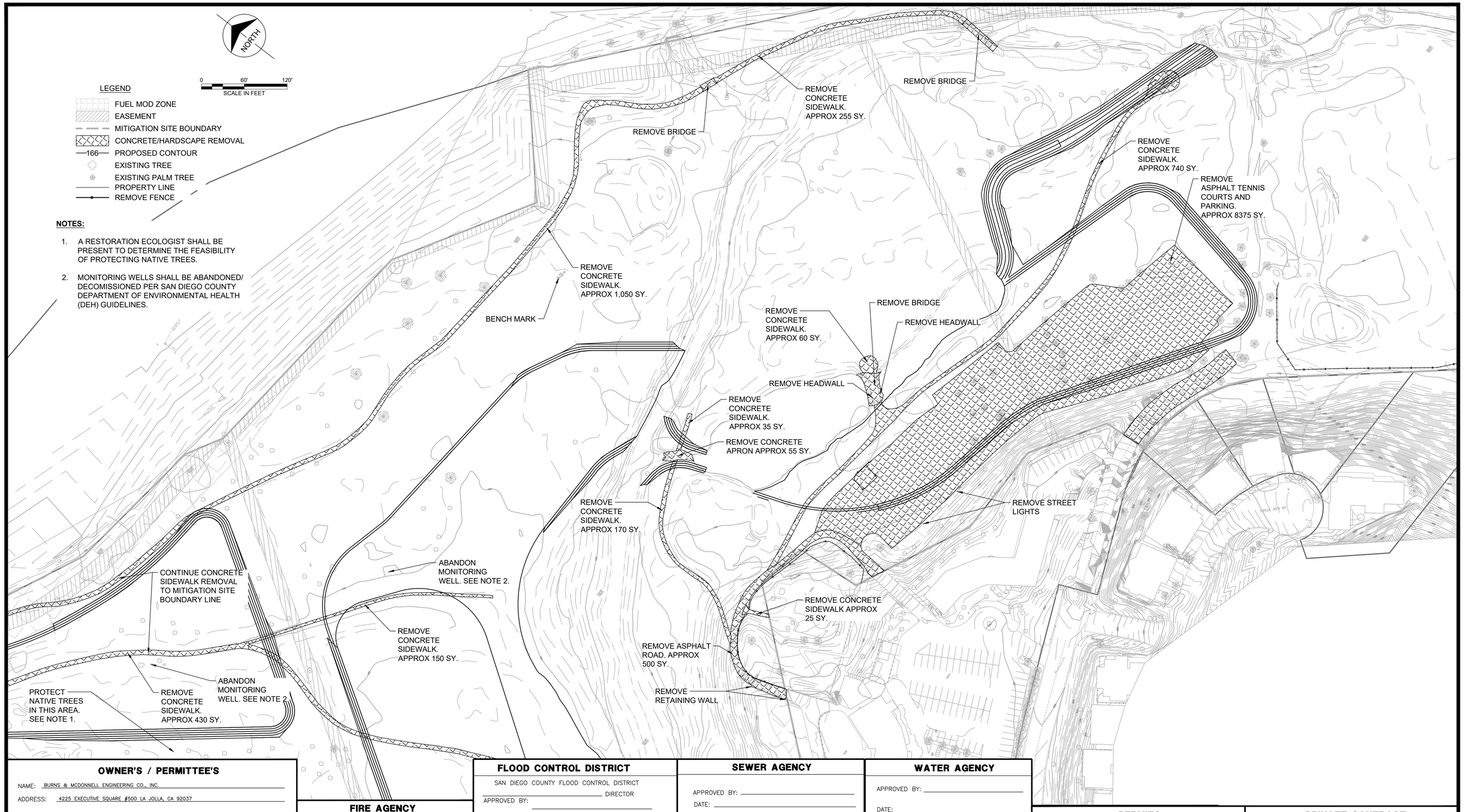
MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:



OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

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A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL: _____

DATE: _____

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE: _____

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

_____ DIRECTOR

APPROVED BY: _____

DATE: _____

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BY: AARON CHRISTENSEN DATE: _____

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY: _____

DATE: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

WATER AGENCY

APPROVED BY: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET 09	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

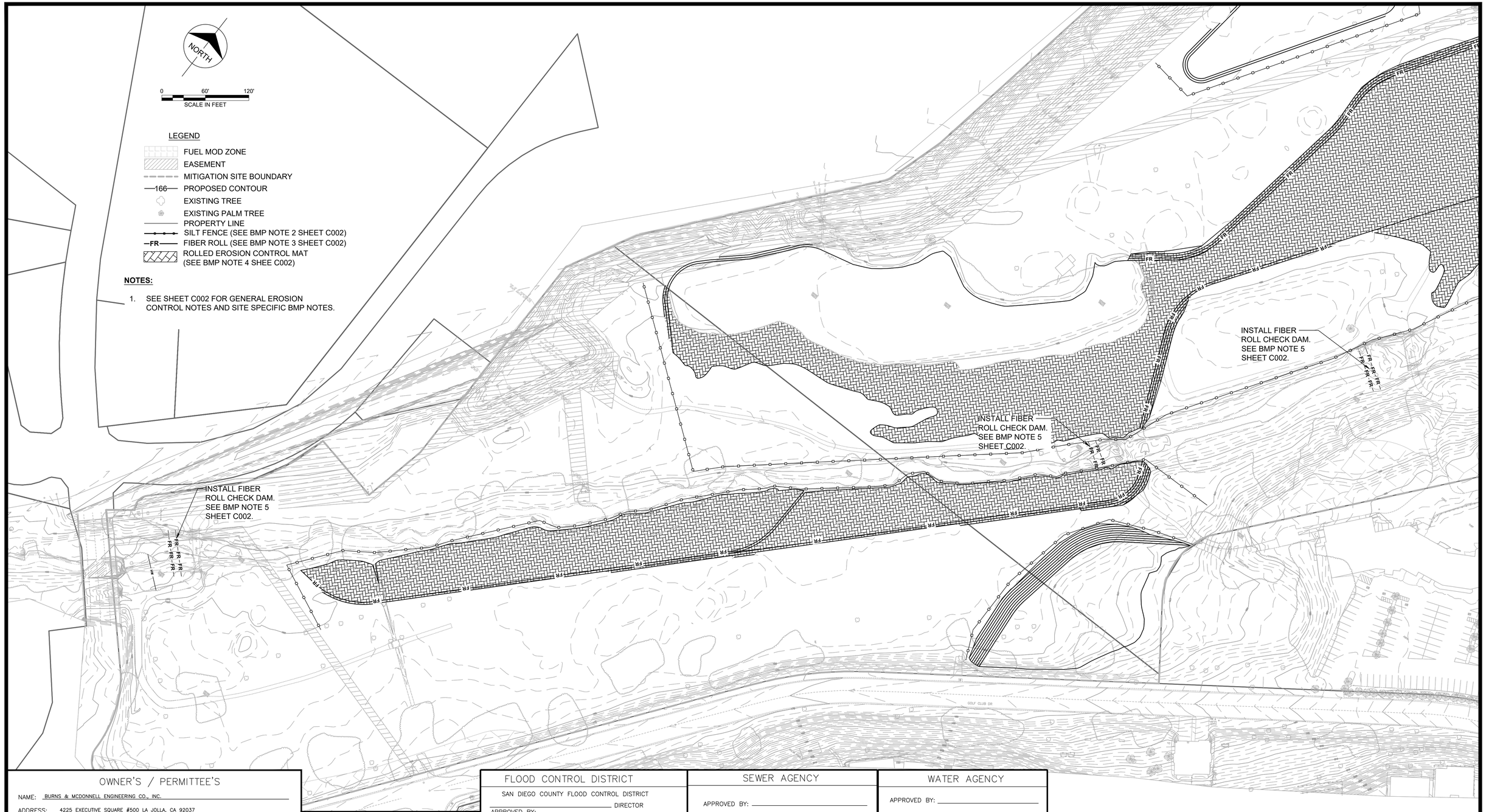
MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:



OWNER'S / PERMITTEE'S

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SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL: _____

DATE: _____

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE: _____

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

_____ DIRECTOR

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APPROVED BY: _____

DATE: _____

WATER AGENCY

APPROVED BY: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

BENCH MARK

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PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
10		

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 – MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:

LEGEND

- FUEL MOD ZONE
- EASEMENT
- MITIGATION SITE BOUNDARY
- 166 PROPOSED CONTOUR
- EXISTING TREE
- EXISTING PALM TREE
- PROPERTY LINE
- SILT FENCE (SEE BMP NOTE 2 SHEET C002)
- FR FIBER ROLL (SEE BMP NOTE 3 SHEET C002)
- STABILIZED CONSTRUCTION ENTRANCE (SEE BMP NOTE 11 SHEET C002)
- ROLLED EROSION CONTROL MAT (SEE BMP NOTE 4 SHEET C002)

NORTH

0 60' 120'
SCALE IN FEET

NOTES:

1. SEE SHEET C002 FOR GENERAL EROSION CONTROL NOTES AND SITE SPECIFIC BMP NOTES.

BENCH MARK

INSTALL FIBER ROLL CHECK DAM. SEE BMP NOTE 5 SHEET C002.

INSTALL FIBER ROLL CHECK DAM. SEE BPM NOTE 5 SHEET C002.

INSTALL SANITARY AND SEPTIC WASTE MANAGEMENT AREA. SEE BMP NOTE 14 SHEET C002.

INSTALL MATERIAL DELIVERY AND STORAGE AREA. SEE BMP NOTE 13 SHEET C002.

MS

SD

INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT SEE BMP NOTE 11 SHEET C002.

INSTALL ENTRANCE/OUTLET TIRE WASH. SEE BMP NOTE 12 SHEET C002.

INSTALL FIBER ROLL CHECK DAM. SEE BMP NOTE 5 SHEET C002.

OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

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RECORD PLAN

BY: AARON CHRISTENSEN NAME DATE:

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

DIRECTOR

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COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

TENTATIVE MAP NO.

BENCH MARK

DESCRIPTION: 2.25" CADT DISK STAMPED "CALDOT 76-12.7R 2013" IN CONCRETE MONUMENT, PER ROS 21849

LOCATION: LAT 33.2888, LONG -117.2131

RECORD FROM: RICK ENGINEERING COMPANY

ELEVATION: 166.39' DATUM: NAVD88

PRIVATE CONTRACT

SHEET 11	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 - MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:

NOTES:

1. SEE SHEET C013 FOR SEED MIX/ PLANT PALETTE TABLES.



OWNER'S / PERMITTEE'S

NAME: BURNS & MCDONNELL ENGINEERING CO., INC.

ADDRESS: 4225 EXECUTIVE SQUARE #500 LA JOLLA, CA 92037

TELEPHONE NO: (916) 577-0659

SHORT LEGAL DESCIPTION: PARCEL B OF CERTIFICATE OF COMPLIANCE RECORDED NOVEMBER 20, 2014 AS INSTRUMENT NO. 2014-0508286 OF OFFICIAL RECORDS.

A.P.N. NO: 126-300-54-00 AND 126-060-84-00

SITE ADDRESS: GOLF CLUB DRIVE BONSALL, CA

FIRE AGENCY

APPROVAL: _____

DATE: _____

RECORD PLAN

BY: AARON CHRISTENSEN (NAME) DATE: _____

R.C.E. C86811

EXPIRES: 2021-03-31

FLOOD CONTROL DISTRICT

SAN DIEGO COUNTY FLOOD CONTROL DISTRICT

_____ DIRECTOR

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXCERCISED 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 SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITES FOR PROJECT DESIGN

BY: AARON CHRISTENSEN DATE: _____

RCE NO: C86811 EXPIRES: 2021-03-31

SEWER AGENCY

APPROVED BY: _____

DATE: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

WATER AGENCY

APPROVED BY: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:
0	ISSUED FOR PERMIT		

PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

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PRIVATE CONTRACT

SHEET 12	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS

GRADING PLAN FOR:

MOOSA CREEK
RIPARIAN RESTORATION PROJECT

CALIFORNIA COORDINATE INDEX NAD83 CALIFORNIA STATE PLANES, ZONE VI, US FOOT

APPROVED
DIRECTOR OF PUBLIC WORKS
BY:

ENGINEER OF WORK
AARON CHRISTENSEN

PDS2021-LDGRAJ-30327 – MOOSA CREEK MAJOR GRADING
GRADING PERMIT NO:

RIPARIAN RE-ESTABLISHMENT PLANT/ SEED PALETTE			
SCIENTIFIC NAME	**COMMON NAME**	**PROPOSED NUMBER OF PLANTS/CUTTINGS (PER ACRE)**	**PROPOSED SEEDING RATE (POUNDS SEED/ ACRE)**
AMBROSIA PSILOSTACHYA	WESTERN RAGWEED	-	6
ANEMOPSIS CALIFORNICA	YERBA MANSA	-	2
ARTEMISIA DOUGLASIANA	MUGWORT	-	6
BACCHARIS SALICIFOLIA	MULEFAT	600	-
DISTICHLIS SPICATA	SALTGRASS	-	4
ELEOCHARIS MACROSTACHYS	PALE SPIKERUSH	-	1
JUNCUS ACUTUS	SPINY RUSH	-	3
OENOTHERA ELATA SPP. HOOKERI	HOOKER'S EVENING PRIMROSE	-	2
PLUCHEA ODORATA	MARSH FLEABANE	-	3
POPULUS FREMONTII	FREMONT COTTONWOOD	100	-
SALIX EXIGUA	SANDBAR WILLOW	175	-
SALIX GOODDINGII	GOODDING'S BLACK WILLOW	150	-
SALIX LAEVIGATA	RED WILLOW	75	-
SALIX LASIOLEPIS	ARROYO WILLOW	100	-
TOTAL PER ACRE		**1200**	**27**

COAST LIVE OAK SAVANNAH PLANT/ SEED PALETTE			
SCIENTIFIC NAME	**COMMON NAME**	**PROPOSED NUMBER OF PLANTS/CUTTINGS (PER ACRE)**	**PROPOSED SEEDING RATE (POUNDS SEED/ ACRE)**
ACMISPON GLABER	DEERWEED	-	2
AMSINCKIA MENZIESII	FIDDLENECK	-	6
ARTEMISIA CALIFORNIACA	CALIFORNIA SAGEBRUSH	-	3
ARTMISIA DOUGLASIANA	MUGWORT	-	5
BACCHARIS PILULARIS	COYOTE BRUSH	-	3
BACCHARIS SALICIFOLIA	MULEFAT	600	-
BROMUS CARINATUS	CALIFORNIA BROME	-	10
DEINANDRA FASCICULATUM	CLUSTERED TARWEED	-	4
ERIOGONUM FASCICULATUM	CALIFORNIA BUCKWHEAT	-	5
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	-	5
HETEROMALES ARBUTIFOLIA	TOYON	30	-
HETEROTHECA GRANDIFOLIA	TELEGRAPH WEED	-	2
ISOCOMA MENZIESII	COAST GOLDENBUSH	40	-
ISOMERIS ARBUTIFOLIA	BLADDERPOD	15	-
LEYMUS TRITICOIDES	CREEPING WILD RYE	-	4
MUHLENBERGIA RIGENS	DEERGRASS	-	3
PLATANUS RACEMOSA	WESTERN SYCAMORE	5	-
POPULUS FREMONTII	FREMONT COTTONWOOD	10	-
STIPA PULCHRA	PURPLE NEEDLEGRASS	-	3
QUERCUS AGRIFOLIA	COAST LIVE OAK	70	-
SAMBUCUS MEXICANA	BLUE ELDERBERRY	50	-
TOXICODENDRON DIVERSILOBUM	POISON OAK	30	-
TOTAL PER ACRE		**850**	**55**

RIPARIAN ENHANCEMENT PLANT/ SEED PALETTE			
SCIENTIFIC NAME	**COMMON NAME**	**PROPOSED NUMBER OF PLANTS/CUTTINGS (PER ACRE)**	**PROPOSED SEEDING RATE (POUNDS SEED/ ACRE)**
ARTEMISIA DOUGLASIANA	MUGWORT	-	10
BACCHARIS SALICIFOLIA	MULEFAT	50	-
ISOCOMA MENZIESII	COAST GOLDENBUSH	-	5
OENOTHERA ELATA SPP. HOOKERI	HOOKER'S EVENING PRIMROSE	-	2
SALIX SP.	WILLOW SPECIES	200	-
TOTAL PER ACRE		**250**	**17**

FLOODPLAIN RE-ESTABLISHMENT PLANT/ SEED PALETTE			
SCIENTIFIC NAME	**COMMON NAME**	**PROPOSED NUMBER OF PLANTS/CUTTINGS (PER ACRE)**	**PROPOSED SEEDING RATE (POUNDS SEED/ ACRE)**
AMBROSIA PSILOSTACHYA	WESTERN RAGWEED	-	6
ANEMOPSIS CALIFORNICA	YERBA MANSA	-	2
ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	-	2
ARTEMISIA DOUGLASIANA	MUGWORT	-	8
BACCHARIS PILULARIS	COYOTE BRUSH	-	3
BACCHARIS SALICIFOLIA	MULEFAT	300	-
BROMUS CARINATUS	CALIFORNIA BROME	-	10
DEINANDRA FASCICULATUM	CLUSTERED TARWEED	-	4
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	-	5
HETEROMALES ARBUTIFOLIA	TOYON	15	-
HETEROTHECA GRANDIFOLIA	TELEGRAPH WEED	-	2
ISOCOMA MENZIESII	COAST GOLDENBUSH	150	4
PLATANUS RACEMOSA	WESTERN SYCAMORE	5	-
PLUCHEA SERICEA	ARROWWEED	25	-
POPULUS FREMONTII	FREMONT COTTONWOOD	5	-
ROSA CALIFORNICA	CALIFORNIA WILD ROSE	20	-
RUBUS URSINUS	CALIFORNIA BLACKBERRY	10	-
SAMBUCUS MEXICANA	BLUE ELDERBERRY	50	-
TOXICODENDRON DIVERSILOBUM	POISON OAK	50	-
TOTAL PER ACRE		630	**46**

FUEL MODIFICATION ZONE SEED MIX		
SCIENTIFIC NAME	**COMMON NAME**	**PROPOSED SEEDING RATE (POUNDS SEED/ ACRE)**
ACMISPON GLABER	DEERWEED	2
AMSINCKIA MENZIESII	FIDDLENECK	6
ARTEMISIA DOUGLASIANA	MUGWORT	5
BROMUS CARINATUS	CALIFORNIA BROME	10
LEYMUS TRITICOIDES	CREEPING WILD RYE	4
STRIPA PULCHRA	PURPLE NEEDLEGRASS	3
TOTAL PER ACRE		30

OWNER'S / PERMITTEE'S

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WATER AGENCY

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