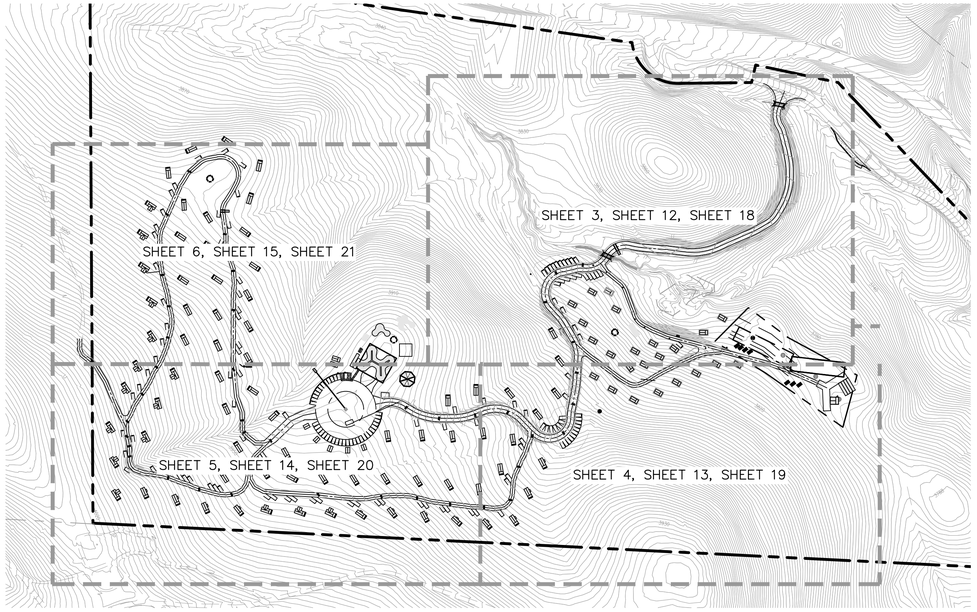
# Appendix C
## **Site Plans**

# YOSEMITE PARK UNDER CANVAS

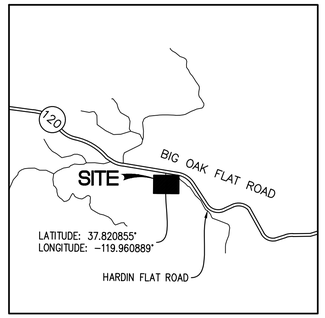
## GENERAL NOTES:

1. PRIOR TO THE GRADING ON THE SITE, ALL PROPERTY CORNERS AND CLEARLY VISIBLE. WHERE A CLEAR LINE OF SIGHT BETWEEN CORNERS IS NOT POSSIBLE, APPROPRIATE MARKERS SHALL BE SET ALONG THE PROPERTY LINE TO MARK THE BOUNDARIES WHILE CONSTRUCTION IS IN PROGRESS.
2. ALL SOIL DISTURBED BY GRADING SHALL BE RESEEDED AND MULCHED OR HYDROMULCHED AS SOON AS POSSIBLE BUT NO LATER THAN OCTOBER 15 OF THE CONSTRUCTION YEAR. EMERGENCY EROSION CONTROL MEASURES SHALL BE UTILIZED AS REQUESTED BY COUNTY OFFICIALS.
3. CALL UNDERGROUND SERVICE ALERT AT 800 – 642–2444 TO LOCATE UNDERGROUND UTILITIES BEFORE GRADING ON THE SITE.
4. ALL FILLS ON WHICH ROADWAYS ARE TO BE PLACED SHALL BE COMPACTED TO A MINIMUM OF 95% M.R.D.D. FOR THE TOP 2.5 FEET. STRUCTURES, PACKING LOTS, OTHER TRAFFIC RELATED APPURTENANCES AND ROADWAYS (BELOW 2.5 FEET) SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY BY ASTM D–1557–78. THE OWNER OR DEVELOPER SHALL PROVIDE CERTIFICATE COMPLIANCE ON COMPACTION FROM AN APPROVED SOILS LABORATORY.
5. NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT (209) 533–6533 AT LEAST TWO WORKING DAYS BEFORE WORK STARTS.
6. HOURS OF EXTERIOR CONSTRUCTION ON THE PROJECT SITE SHALL BE LIMITED 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY. ONSITE WORK MAY OCCUR ON SATURDAY, BUT NOT ADJACENT TO COUNTY RIGHT–OF–WAY AND NOT ON ITEMS OR AREAS THAT REQUIRE INSPECTION BY THIS DEPARTMENT. EXTERIOR CONSTRUCTION SHALL BE PROHIBITED ON SUNDAY AND COUNTY HOLIDAYS.
7. APPLICANT SHALL BE RESPONSIBLE FOR DUST ABATEMENT DURING CONSTRUCTION AND DEVELOPMENT OPERATIONS. A WATER TRUCK OR OTHER WATERING DEVICE SHALL BE ON THE PROJECT SITE ON ALL WORKING DAYS WHEN NATURAL PRECIPITATION DOES NOT PROVIDE ADEQUATE MOISTURE FOR COMPLETE DUST CONTROL. SAID WATERING DEVICE SHALL BE USED TO SPRAY WATER ON THE SITE AT THE END OF EACH DAY AND AT OTHER INTEN/ALS, AS NEED DICTATES, TO CONTROL DUST.
8. ALL MATERIALS FURNISHED AND THE METHODS OF PERFORMING ANY PROPOSED WORK SHALL CONFORM TO AND BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE CALTRANS STANDARD SPECIFICATIONS AND TITLE II OR 12..
9. CONTACT CAL–OSHA FOR PERMIT REQUIREMENTS PRIOR TO BEGINNING WORK. (209) 576–6260.
10. THE STRUCTURAL SECTION SHOWN ON THE DETAILS SHALL BE FOR ESTIMATING PURPOSES ONLY. IT SHALL BE THE APPLICANTS RESPONSIBILITY AND EXPENSE TO OBTAIN R VALUES TAKEN FROM SAMPLES AT LOCATIONS IN THE PRESENCE OF A DEPARTMENT OF PUBLIC WORKS INSPECTOR COPIES OF CERTIFIED TEST RESULTS AND STRUCTURAL SECTION CALCULATIONS SHALL BE SUBMITTED TO THE DEPARTMENT. THE COUNTY MINIMUM TRAFIC INDEX (T.L.) SHALL BE PER TITLE II OR MORE AND NOT LESS THAN 5
11. IF SUBSURFACE CULTURAL RESOURCES ARE DISCOVERED ON THE PROJECT SITE DURING THE CONSTRUCTION PROCESS, ALL WORK IN THE RESOURCE FEATURE AREAS SHALL CEASE UNTIL THE PROJECT PLANNER FROM THE TUOLUMNE COUNTY DEPARTMENT OF PUBLIC WORKS HAS BEEN CONTACTED AND A QUALIFIED ARCHAEOLOGIST OR HISTORIAN HAS BEEN HIRED BY THE APPLICANT TO EVALUATE SAID RESOURCES AND ESTABLISH BOUNDARIES AROUND THEM. IF THE RESOURCES ARE FOUND TO BE SIGNIFICANT, MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED IN ACCORDANCE WITH SECTION 21083.2 AND 21084.1 OF CEQA.
12. THE CONTRACTOR AND ALL PERSONS WHO WILL BE OPERATING EQUIPMENT OR RESPONSIBLE FOR GRADING ON THE PROPERTY SHALL BE INFORMED THAT NO GRADING OR EARTH MOVING SHALL BE CONDUCTED THE LENGTH OF THE PROPOSED ROAD BETWEEN THE FLAGS, UNTIL A QUALIFIED ARCHAEOLOGIST APPROVED BY THE TUOLUMNE COUNTY COMMUNITY DEVELOPMENT DEPARTMENT IS PRESENT.
13. THE APPROVED ARCHAEOLOGIST SHALL BE PRESENT DURING ALL GRADING OR EARTH MOVING OPERATIONS WITHIN THE FLAGGED BOUNDARIES.
14. THE PROJECT PLANNER FROM THE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED OF THE DATE THAT GRADING OR EARTH MOVING IS TO OCCUR WITHIN THE SITE PRIOR TO ANY GRADING OR EARTH MOVING WITHIN THIS AREA.
15. PRIOR TO ANY GRADING OR EARTH MOVING ON THE PROPERTY, THE BOUNDARY OF THE MIDDEN AREA AS IT CROSSES THE PROPOSED ROAD EASEMENT AS SHOWN ON THE ATTACHED MAP SHALL BE FLAGGED. THE PROJECT PLANNER FROM THE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED WHEN SAID BOUNDARY HAS BEEN FLAGGED.
16. ALL AREAS OF NEW PAVEMENT WILL BE WATER TESTED IN THE PRESENCES OF THE COUNTY INSPECTOR TO VERIFY PROPER DRAINAGE.
17. PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE A PRECONSTRUCTION MEETING IS REQUIRED WITH THE COUNTY, DEVELOPER, CONTRACTORS AND AFFECTED AGENCIES. CONTACT THE DEPARTMENT OF PUBLIC WORKS ENGINEER OR PROJECT PLANNER AT 533–5633.
18. APPROVAL OF THESE PLANS BY THE COUNTY OR ITS AGENTS SHALL NOT RELIEVE THE CONTRACTOR OR THE APPLICANT FROM THE RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE APPROPRIATE REVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

– THESE NOTES APPLY ONLY TO PROJECTS WITH ARCHAEOLOGICALLY SENSITIVE AREAS.




INDEX MAP
NTS




VICINITY MAP
NTS

## INDEX TO PROJECT DRAWINGS


| SHEET NO. | DESCRIPTION |
|---|---|
| 1 | TITLE SHEET |
| 1.1 | TITLE SHEET |
| 2 | OVERALL GRADING PLAN |
| 3 | DETAIL GRADING PLAN "1" |
| 4 | DETAIL GRADING PLAN "2" |
| 5 | DETAIL GRADING PLAN "3" |
| 6 | DETAIL GRADING PLAN "4" |
| 7 | GRADING DETAIL |
| 8 | EROSION CONTROL PLAN |
| 9 | EROSION CONTROL DETAILS |
| 10 | EROSION CONTROL DETAILS |
| 11 | OVERALL UTILITY PLAN |
| 12 | DETAIL UTILITY PLAN "1" |
| 13 | DETAIL UTILITY PLAN "2" |
| 14 | DETAIL UTILITY PLAN "3" |
| 15 | DETAIL UTILITY PLAN "4" |
| 16 | UTILITY DETAIL |
| 17 | OVERALL HORIZONTAL CONTROL PLAN |
| 18 | DETAIL HORIZONTAL CONTROL PLAN "1" |
| 19 | DETAIL HORIZONTAL CONTROL PLAN "2" |
| 20 | DETAIL HORIZONTAL CONTROL PLAN "3" |
| 21 | DETAIL HORIZONTAL CONTROL PLAN "4" |
| 22 | HORIZONTAL CONTROL LINE & CURVE TABLE |
| 23 | HORIZONTAL CONTROL LINE & CURVE TABLE |


## OWNER/DEVELOPER:

UNDER CANVAS GROUP
CONTACT: JEREMY BUDGE
BOZEMAN, MT 59715
PHONE: (607)232–6093

## CIVIL ENGINEER:

DAX CONSULTING
23679 CALABASAS RD
#995 CALABASAS
CALIFORNIA 91302
PHONE: (310)598–8157

## GRADING QUANTITIES*:

CUT: 9,300 C.Y.
FILL: 3,755 C.Y.
SHRINKAGE (10% ASSUMED): 375 C.Y.
EXPORT: 5,170 C.Y.

## BENCH MARK:

THE NGS BENCHMARK
HARDN, PID – DF8607

## BASIS OF BEARING:

ALL BEARINGS ARE GIRD AND ALL DISTANCES HAVE BEEN SCALED GROUND USING THE SCALE FACTOR OF 0.99974713, NO DATA WAS ROTATED TO ANY EXISTING BASIS

## COORDINATE SYSTEM:

NAD83 CALIFORNIA
STATE PLANES, ZONE III,
US FOOT

## LEGEND & ABBREVIATIONS

| | |
|---|---|
| MH | MANHOLE |
| CB | CATCH BASIN |
| CO | SEWER CLEANOUT |
| POC | POINT OF CONNECTION |
| FL | FLOWLINE |
| 1156 | FINISH GRADE |
| 1168 | EXISTING GRADE |
| (S) | EXISTING SEWER LINE |
| (SD) | EXISTING STORM DRAIN LINE |
| S | PROPOSED SEWER LINE |
| SD | PROPOSED STORM DRAIN LINE |
| W | PROPOSED WATER LINE |
| 1% | PROPOSED GRADIENT |
| XX.XX TC / XX.XX FL | PROPOSED ELEVATIONS |
| XX.XX TC | EXISTING ELEVATIONS |

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: 811
TWO WORKING DAYS BEFORE YOU DIG

SOILS ENGINEER/GEOLOGIST APPROVAL
THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO RECOMMENDATIONS OF SOILS ENGINEERING/GEOLOGIC REPORTS DATED _____.

SOILS ENGINEER SIGNATURE: _____ DATE _____ .

GEOLOGIST SIGNATURE: _____ DATE _____.

BENCHMARK | BASIS OF BEARING

REVIEW BY TUOLUMNE COUNTY

| OFFICE | INITIAL | DATE |
|---|---|---|
| ENGINEERING DEVELOPMENT DIVISION | | |
| BUILDING DIVISION | | |
| PLANNING | | |
| ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS
RECOMMENDED: _____ DATE
APPROVED: _____ DATE

ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598–8157
UNDER THE SUPERVISION OF:
_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
TITLE SHEET

SHEET 1 OF 24

**EXHIBIT "C"**
**describing PARCEL C**

A tract of land situated in a portion of the West half of the Southeast quarter of Section 26, Township 1 South, Range 18 East, M. D. B. & M., in the unincorporated area of Tuolumne County, State of California, said tract of land being more particularly described as follows:

All that portion of said West half of the Southeast quarter lying southerly of LINE B of Parcel 5351 as said LINE B of Parcel 5351 is described in Grant Deed to the State of California recorded August 25, 2003 as Document No. 2003021597 in the Official Records of Tuolumne County, said LINE B of Parcel 5351 being described in said Grant Deed as follows:
Commencing at a 2-inch iron pipe with United States Forest Service brass disk set to mark the East quarter corner of said Section 26; thence (1) along the East line of said Southeast quarter S 7°18'29"E, a distance of 2720.69 feet to a 2-inch iron pipe with U.S.F.S. brass disk set to mark the Southeast corner of said section; thence (8) leaving said section line, N 0°00'20"E, a Distance of 180.23 feet to the True Point of Beginning of Line B;
thence (9) N31°13'44"W, a Distance of 883.36 feet;
thence (10) N43°19'42"W, a Distance of 608.81 feet;
thence (11) N78°01'19"W, a Distance of 431.47 feet;
thence (12) N81°57'04"W, a Distance of 1428.40 feet;
thence (13) N82°04'56"W, a Distance of 257.49 feet to a point on the West line of said Southeast quarter lying 1558.28 feet north of the South quarter corner of said Section 26.

The above-described tract of land is subject to any liens, encumbrances, covenants, restrictions and rights-of-way or easements of record or legally acquired.

**EXHIBIT "D"**
**describing PARCEL D**

A tract of land situated in a portion of the East half of the Southeast quarter of Section 26, Township 1 South, Range 18 East, M. D. B. & M., in the unincorporated area of Tuolumne County, State of California, said tract of land being more particularly described as follows:

All that portion of said East half of the Southeast quarter lying southerly of LINE B of Parcel 5351 as said LINE B of Parcel 5351 is described in Grant Deed to the State of California recorded August 25, 2003 as Document No. 2003021597 in the Official Records of Tuolumne County, said LINE B of Parcel 5351 being described in said Grant Deed as follows:

Commencing at a 2-inch iron pipe with United States Forest Service brass disk set to mark the East quarter corner of said Section 26; thence (1) along the East line of said Southeast quarter S 7°18'29"E, a distance of 2720.69 feet to a 2-inch iron pipe with U.S.F.S. brass disk set to mark the Southeast corner of said section; thence (8) leaving said section line, N 0°00'20"E, a Distance of 180.23 feet to the True Point of Beginning of Line B;
thence (9) N31°13'44"W, a Distance of 883.36 feet;
thence (10) N43°19'42"W, a Distance of 608.81 feet;
thence (11) N78°01'19"W, a Distance of 431.47 feet;
thence (12) N81°57'04"W, a Distance of 1428.40 feet;
thence (13) N82°04'56"W, a Distance of 257.49 feet to a point on the West line of said Southeast quarter lying 1558.28 feet north of the South quarter corner of said Section 26.

EXCEPTING THEREFROM Parcel 6223A, said Parcel 6223A being described in said Grant Deed as follows:
Beginning at The True Point of Beginning of the above described Line B of Parcel 5351;
thence (15) along said Line B, N31°13'44"W, a Distance of 496.78 feet;
thence, (16) leaving said Line B, S12°27'14"E, a Distance of 330.26 feet;
thence (17) S61°13'50"E, a distance of 212.58 feet to the True Point of Beginning.

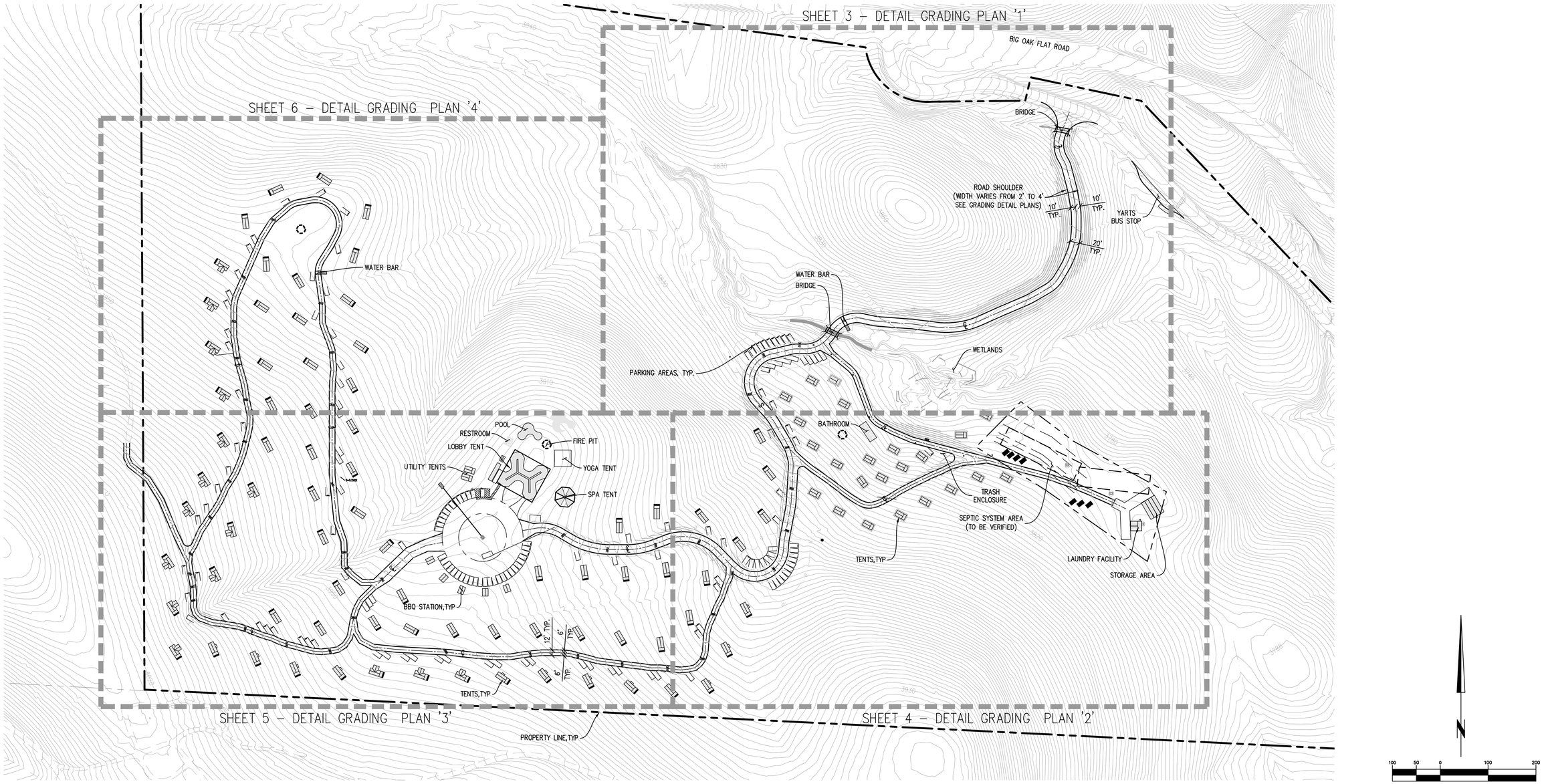
ALSO EXCEPTING THEREFROM Parcel 6223B, said Parcel 6223B being described in said Grant Deed as follows:
Beginning at a point on the above described Line B of Parcel 5351, distant 155.00 feet from the easterly terminus of the above described course (12) of Line B;
thence (18) along said Line B, S81°57'04"E, a Distance of 155.00 feet;
thence (19) S78°01'19"E, a Distance of 196.03 feet;
thence (20) leaving said Line B, S13°13'13"W, a Distance of 50.30 feet;

thence (21) S89°19'02"W, a Distance of 195.71 feet;
thence, (22) from a tangent which bears S86°01'10"W, along a curve concave to the northeast, having a radius of 130.00 feet, through a central angle of 86°54'37"; an arc length of 197.19 feet; to the Point of Beginning.

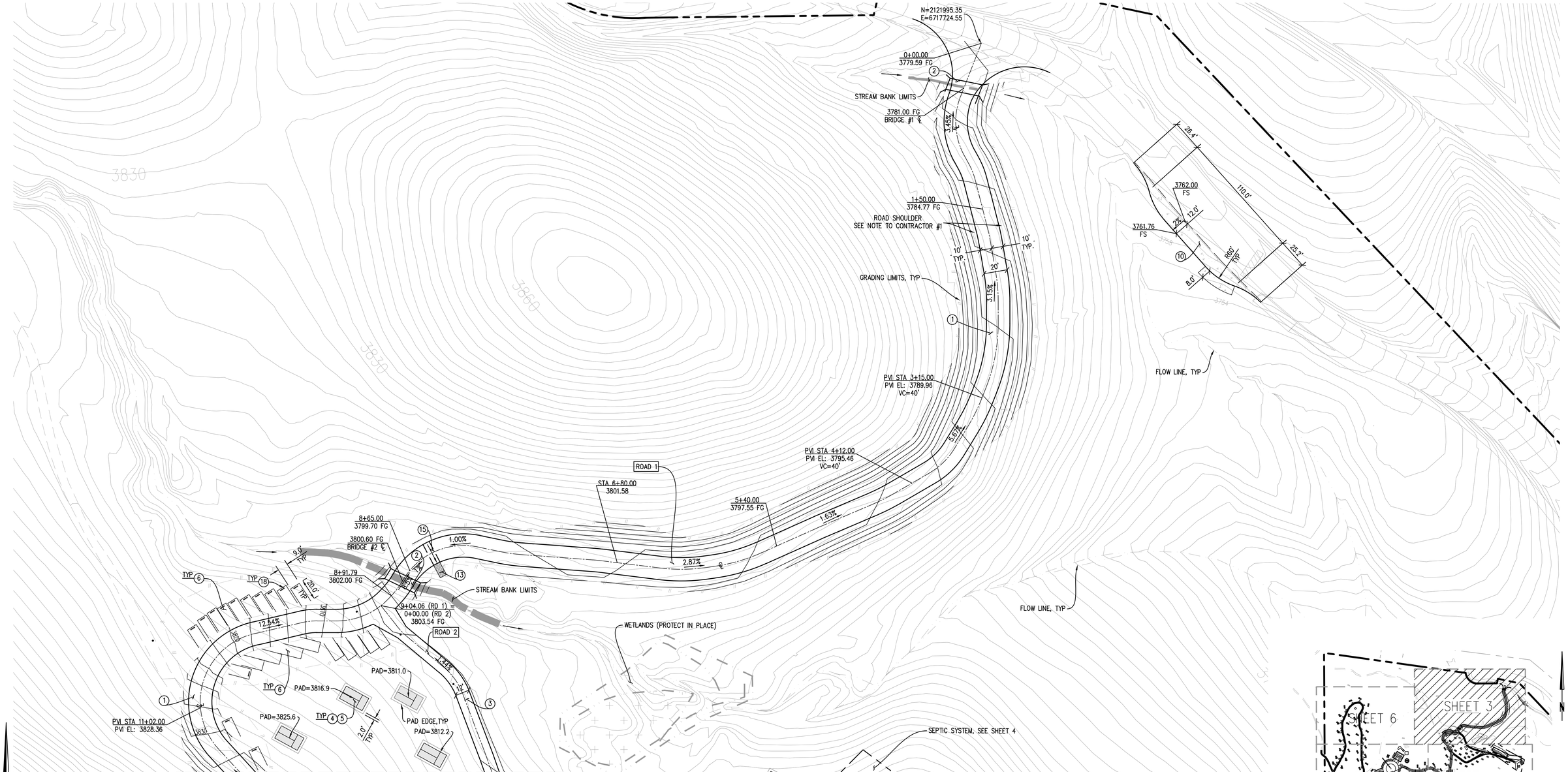
The above-described tract of land is subject to any liens, encumbrances, covenants, restrictions and rights-of-way or easements of record or legally acquired.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: 811
TWO WORKING DAYS BEFORE YOU DIG

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | | | | | | | | TUOLUMNE COUNTY APPROVALS | ENGINEER OF RECORD'S SEAL | DAX CONSULTING INC. | COUNTY OF TUOLUMNE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OFFICE INITIAL DATE | | | | | | | | | RECOMMENDED: | | 23679 CALABASAS ROAD, #995 | YOSEMITE UNDER CANVAS |
| | | ENGINEERING DEVELOPMENT DIVISION | | | | | | | | | _____ DATE | | CALABASAS, CA 91302 | TITLE SHEET |
| | | BUILDING DIVISION | | | | | | | | | | | PH (310) 598-8157 | |
| | | PLANNING | | | | | | | | | APPROVED: | | UNDER THE SUPERVISION OF: | SHEET 1.1 OF 24 |
| | | ENVIRONMENTAL HEALTH | | | | | | | | | _____ DATE | | _____ DAX HOFF _____ DATE | |
| | | | MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE | | | | | |
| | | | | | E.O.R | REVISION | | | | | | | | |




| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | | | | | | | TUOLUMNE COUNTY APPROVALS | ENGINEER OF RECORD'S SEAL | DAX CONSULTING INC. | COUNTY OF TUOLUMNE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OFFICE INITIAL DATE | | | | | | | | RECOMMENDED: | | 23679 CALABASAS ROAD, #995<br>CALABASAS, CA 91302<br>PH (310) 598-8157 | YOSEMITE UNDER CANVAS<br>OVERALL GRADING PLAN |
| | | ENGINEERING DEVELOPMENT DIVISION | | | | | | | | DATE | | UNDER THE SUPERVISION OF: | SHEET 2 OF 24 |
| | | BUILDING DIVISION | | | | | | | | APPROVED: | | DAX HOFF DATE | |
| | | PLANNING | | | | | | | | DATE | | | |
| | | ENVIRONMENTAL HEALTH | | | | | | | | | | | |
| | | | MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE | | | | |
| | | | | | E.O.R | REVISION | | | | | | | |




## CONSTRUCTION NOTES

1. CONSTRUCT 20' WIDE ROAD WITH 2' OR 4' SHOULDER PER DETAILS ON SHEET 7.
2. CONSTRUCT 20' WIDE (INSIDE TO INSIDE) X 10' LONG CONTECH BRIDGE. BRIDGE LENGTH TO BE FIELD VERIFIED. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATION.
3. CONSTRUCT 12' WIDE ROAD PER DETAILS' ON SHEET 7.
5. INSTALL TENT BY OWNER.
6. CONSTRUCT PARKING STALL 9' WIDE X 20' LONG. PARKING STALL SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE.
10. CONSTRUCT YARTS BUS STOP PER PLAN, PER DETAILS ON SHEET 7 AND PER TUOLUMNE COUNTY TRANSPORTATION COUNCIL SPECIFICATIONS.
13. INSTALL 6'X12' MACCAFERRI RIPRAP MATTRESS. ROCKS SHALL 4" TO 6" DIAMETER.
15. CONSTRUCT WATER BAR PER DETAILS ON SHEET 7.
18. INSTALL WHEEL STOP, MATERIAL TBD.

NOTES TO CONTRACTOR:

1. AT ROAD '1', AREAS WITH TURNING RADIUS (INSIDE ROAD EDGE) BETWEEN 50' TO 100' SHALL RECEIVE 4' WIDE SHOULDER ON EACH SIDE OF THE ROAD. OTHERWISE, PROVIDE 2' MIN. SHOULDER WIDTH.
2. CONTRACTOR TO ENSURE THAT THE MINIMUM TURNING RADIUS AT ROAD '1' IS NOT LESS THAN 50' (INSIDE ROAD EDGE).

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | |
|---|---|---|---|---|
| | | OFFICE | INITIAL | DATE |
| | | ENGINEERING DEVELOPMENT DIVISION | | |
| | | BUILDING DIVISION | | |
| | | PLANNING | | |
| | | ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE

APPROVED: _____ DATE

ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157

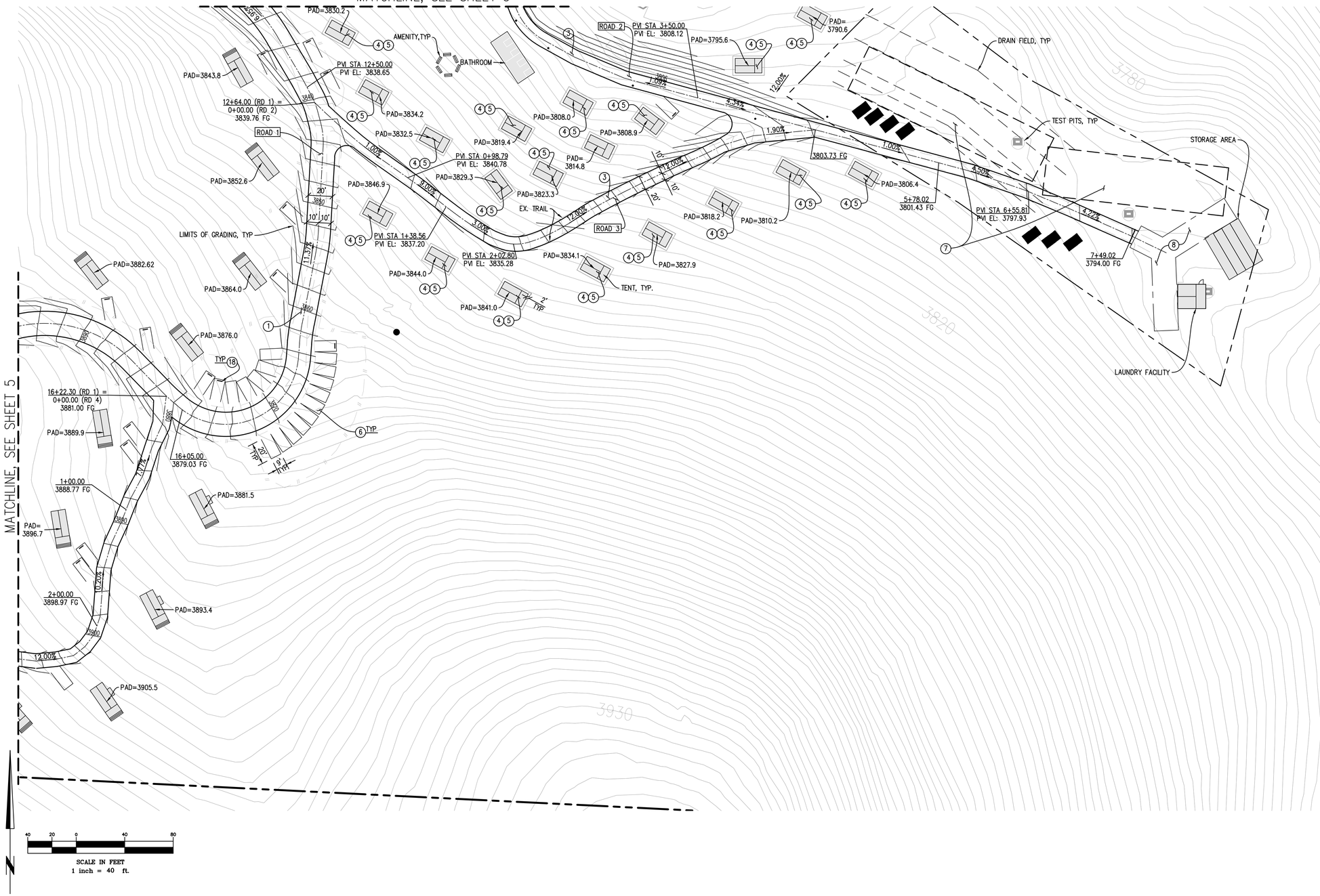
UNDER THE SUPERVISION OF:

_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
DETAIL GRADING PLAN '1'

SHEET 3 OF 24

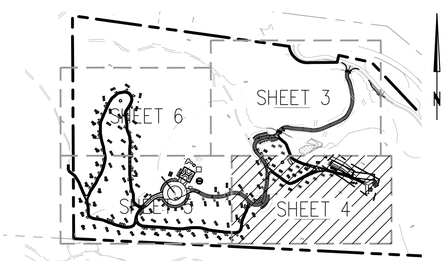



## CONSTRUCTION NOTES

1. CONSTRUCT 20' WIDE ROAD WITH 2' OR 4' SHOULDER PER DETAILS ON SHEET 7.
2. CONSTRUCT 20' WIDE (INSIDE TO INSIDE) X 10' LONG CONTECH BRIDGE. BRIDGE LENGTH TO BE FIELD VERIFIED. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATION.
3. CONSTRUCT 12' WIDE ROAD PER DETAILS' ON SHEET 7.
4. CONSTRUCT PAD PRIOR TO SAFARI TENT INSTALLATION. CONTRACTOR MAY ADJUST PAD ELEVATION AS NECESSARY.
5. INSTALL TENT BY OWNER.
6. CONSTRUCT PARKING STALL 9' WIDE X 20' LONG. PARKING STALL SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE.
7. CONSTRUCT SEPTIC SYSTEM PER SEPARATE PLANS.
8. CONSTRUCT DRIVEWAY. SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE. SEE DETAILS IN SHEET 7.
18. INSTALL WHEEL STOP, MATERIAL TBD.

NOTES TO CONTRACTOR:

1. AT ROAD '1', AREAS WITH TURNING RADIUS (INSIDE ROAD EDGE) BETWEEN 50' TO 100' SHALL RECEIVE 4' WIDE SHOULDER ON EACH SIDE OF THE ROAD. OTHERWISE, PROVIDE 2' MIN. SHOULDER WIDTH.
2. CONTRACTOR TO ENSURE THAT THE MINIMUM TURNING RADIUS AT ROAD '1' IS NOT LESS THAN 50' (INSIDE ROAD EDGE).




KEY MAP
NTS

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY |
|---|---|---|
| | | OFFICE — INITIAL — DATE |
| | | ENGINEERING DEVELOPMENT DIVISION |
| | | BUILDING DIVISION |
| | | PLANNING |
| | | ENVIRONMENTAL HEALTH |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE

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ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157

UNDER THE SUPERVISION OF:

_____ DAX HOFF _____ DATE

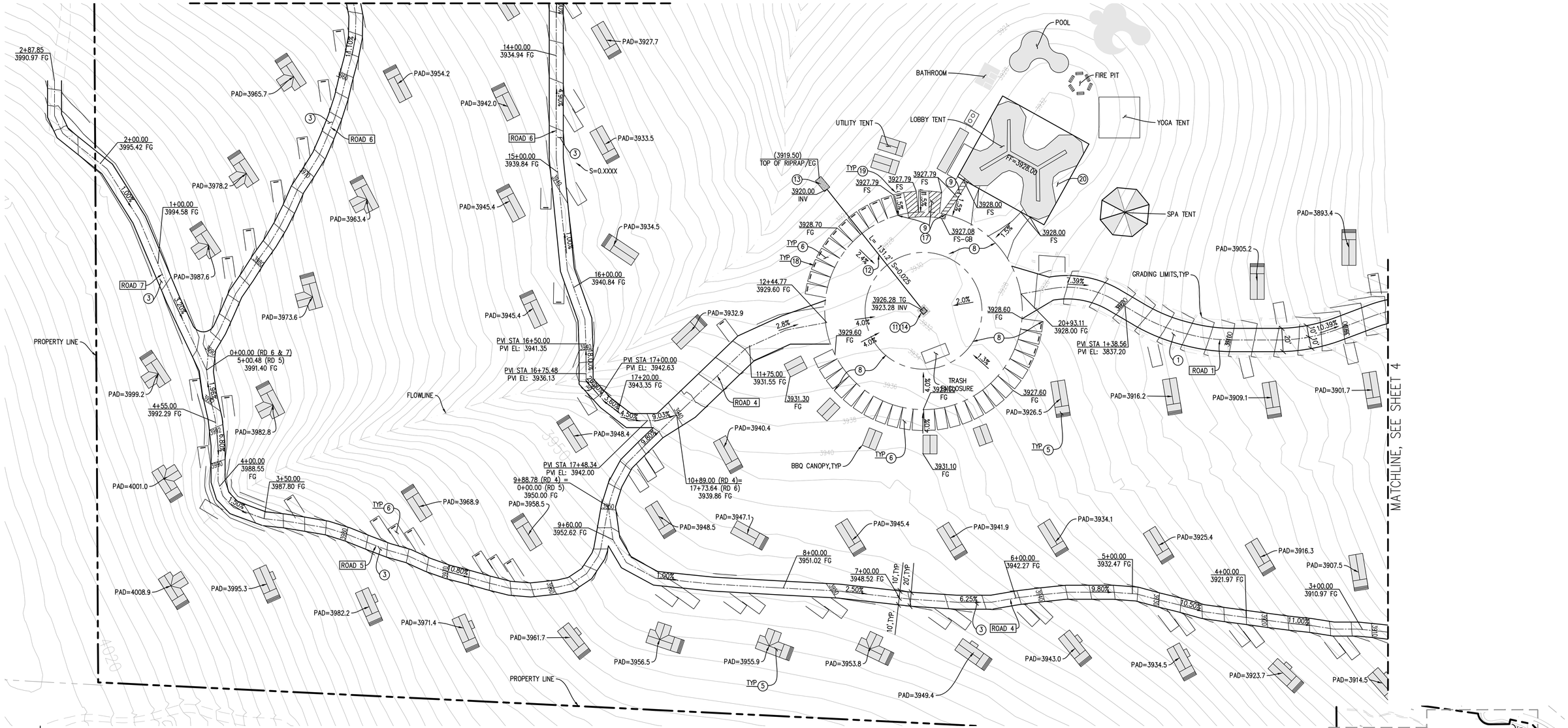
# COUNTY OF TUOLUMNE

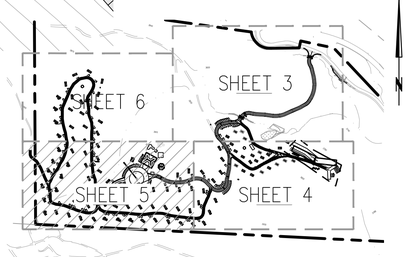
YOSEMITE UNDER CANVAS
DETAIL GRADING PLAN '2'

SHEET 4 OF 24

MATCHLINE, SEE SHEET 6

MATCHLINE, SEE SHEET 4




KEY MAP
NTS

SCALE IN FEET
1 inch = 40 ft.

## CONSTRUCTION NOTES

1. CONSTRUCT 20' WIDE ROAD WITH 2' OR 4' SHOULDER PER DETAILS ON SHEET 7.
3. CONSTRUCT 12' WIDE ROAD PER DETAILS' ON SHEET 7.
4. CONSTRUCT PAD PRIOR TO SAFARI TENT INSTALLATION. CONTRACTOR MAY ADJUST PAD ELEVATION AS NECESSARY.
5. INSTALL TENT BY OWNER.
6. CONSTRUCT PARKING STALL 9' WIDE X 20' LONG. PARKING STALL SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE.
8. CONSTRUCT DRIVEWAY. SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE. SEE DETAILS IN SHEET 7.
9. CONSTRUCT 8" CONCRETE PAVEMENT WITH #4 REBARS PLACED AT MID-DEPTH AT 18" O.C. EACH WAY ON DETAILS ON SHEET 7.
11. INSTALL 48" X 48" PRECAST CATCH BASIN (BROOKS OR EQUAL).
12. INSTALL 12" PVC STORM DRAIN PIPE (SCHEDULE 80)
13. INSTALL 6'X12' MACCAFERRI RIPRAP MATTRESS. ROCKS SHALL 4" TO 6" DIAMETER.
14. INSTALL 4' WIDE (MIN) X 4" THICK GRAVEL SURFACING.
17. PAINT ADA STRIPING AND EMBLEM PER DETAILS ON SHEET 7.
18. INSTALL WHEEL STOP, MATERIAL TBD.
19. INSTALL ADA SIGN PER SPPWC 180-0.
20. CONSTRUCT CONCRETE PAD PER STRUCTURAL PLANS.

NOTES TO CONTRACTOR:

1. AT ROAD '1', AREAS WITH TURNING RADIUS (INSIDE ROAD EDGE) BETWEEN 50' TO 100' SHALL RECEIVE 4' WIDE SHOULDER ON EACH SIDE OF THE ROAD. OTHERWISE, PROVIDE 2' MIN. SHOULDER WIDTH.
2. CONTRACTOR TO ENSURE THAT THE MINIMUM TURNING RADIUS AT ROAD '1' IS NOT LESS THAN 50' (INSIDE ROAD EDGE).

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | |
|---|---|---|---|---|
| | | OFFICE | INITIAL | DATE |
| | | ENGINEERING DEVELOPMENT DIVISION | | |
| | | BUILDING DIVISION | | |
| | | PLANNING | | |
| | | ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE

APPROVED: _____ DATE

ENGINEER OF RECORD'S SEAL


DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157


UNDER THE SUPERVISION OF:

_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
DETAIL GRADING PLAN '3'

SHEET 5 OF 24




40 20 0 40 80

SCALE IN FEET
1 inch = 40 ft.

## CONSTRUCTION NOTES

(3) CONSTRUCT 12' WIDE ROAD PER DETAILS' ON SHEET 7.

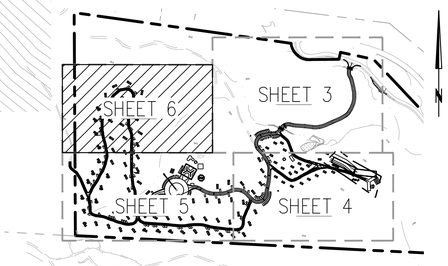
(5) INSTALL TENT BY OWNER.

(6) CONSTRUCT PARKING STALL 9' WIDE X 20' LONG. PARKING STALL SURFACE AND MATERIAL SHALL BE SIMILAR TO ROAD SURFACE.

(13) INSTALL 6'X12' MACCAFERRI RIPRAP MATTRESS. ROCKS SHALL 4" TO 6" DIAMETER.

(15) CONSTRUCT WATER BAR PER DETAILS ON SHEET 7.

(18) INSTALL WHEEL STOP, MATERIAL TBD.




KEY MAP
NTS

BENCHMARK

BASIS OF BEARING

REVIEW BY TUOLUMNE COUNTY

| OFFICE | INITIAL | DATE |
|---|---|---|
| ENGINEERING DEVELOPMENT DIVISION | | |
| BUILDING DIVISION | | |
| PLANNING | | |
| ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

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ENGINEER OF RECORD'S SEAL

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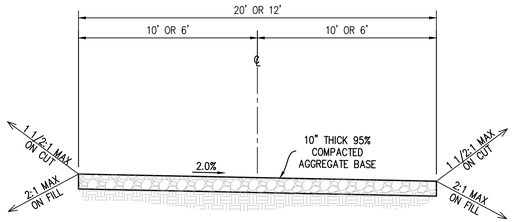
UNDER THE SUPERVISION OF:

_____ _____
DAX HOFF DATE

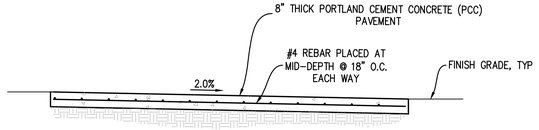
# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
DETAIL GRADING PLAN '4'

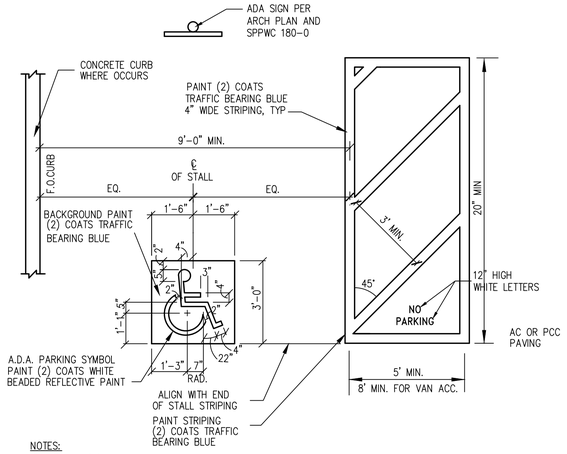
SHEET 6 OF 24




## ① TYPICAL ROAD SECTION
NTS

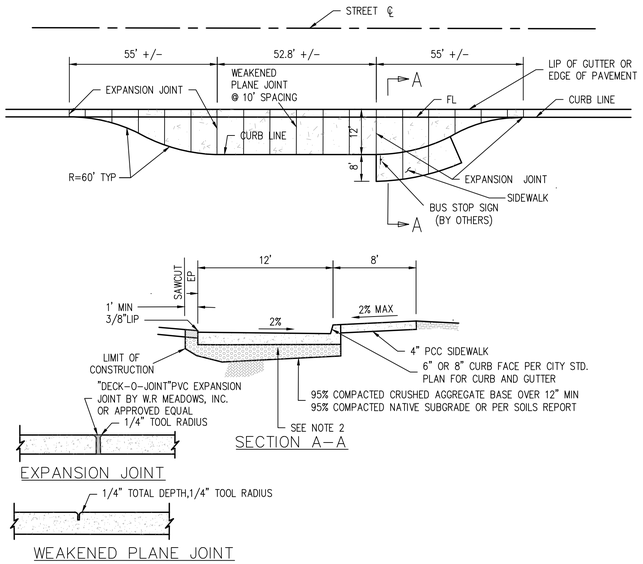



## ⑨⑩ TYPICAL PCC PAVEMENT SECTION
NTS



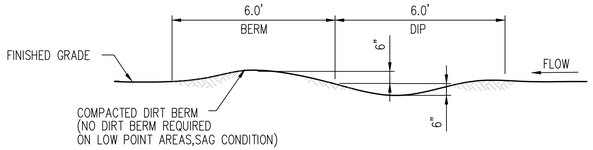

NOTES:
1. PAINT WITH (2) COATS TRAFFIC BEARING PAINT, DRY BETWEEN COATS.
2. MINIMUM VERTICAL CLEARANCE IS 98" IN PARKING STRUCTURE (NO VALET PARKING)

## ⑰ PAINTED ACCESSIBLE PARKING EMBLEM AND STRIPING
NTS

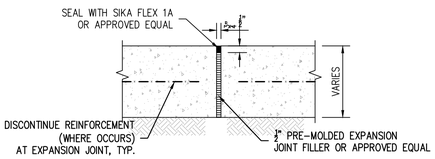



NOTES:
1. CONSTRUCT EXPANSION JOINTS (AT 60' SPACING) AND WEAKENED PLANE JOINTS (AT 10' SPACING) OR AS DIRECTED BY THE CITY ENGINEER.
2. PCC PAVEMENT MINIMUM THICKNESS SHALL BE 8" PCC WITH #4 REBARS AT 18" O.C. IN BOTH DIRECTIONS OVER 6"AB OVER 12" 95% COMPACTED NATIVE SUBGRADE OR PER SOIL REPORT. CONCRETE SHALL HAVE f'c=2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
3. CURB SHALL BE POURED MONOLITHIC WITH PCC PAVEMENT.
4. LOCATION OF BUS TURNOUT SHOULD BE AS APPROVED BY THE TRANSPORTATION DIVISION AND IN CONSULTATION WITH THE APPROPRIATE TRANSIT AGENCY.

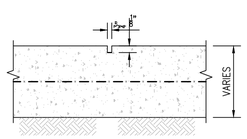
## DETAIL- BUS TURN-OUT
NTS




## TYPICAL SECTION THRU WATER BAR
NTS




## TYP. EXPANSION JOINT MAXIMUM SPACING = 50'
NTS




## TYP. CONTROL JOINT MAXIMUM SPACING = 10'
NTS

## EXPANSION/CONTROL JOINT DETAIL
NTS

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY |
|---|---|---|
| | | OFFICE INITIAL DATE |
| | | ENGINEERING DEVELOPMENT DIVISION |
| | | BUILDING DIVISION |
| | | PLANNING |
| | | ENVIRONMENTAL HEALTH |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE

APPROVED: _____ DATE

ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157

UNDER THE SUPERVISION OF:

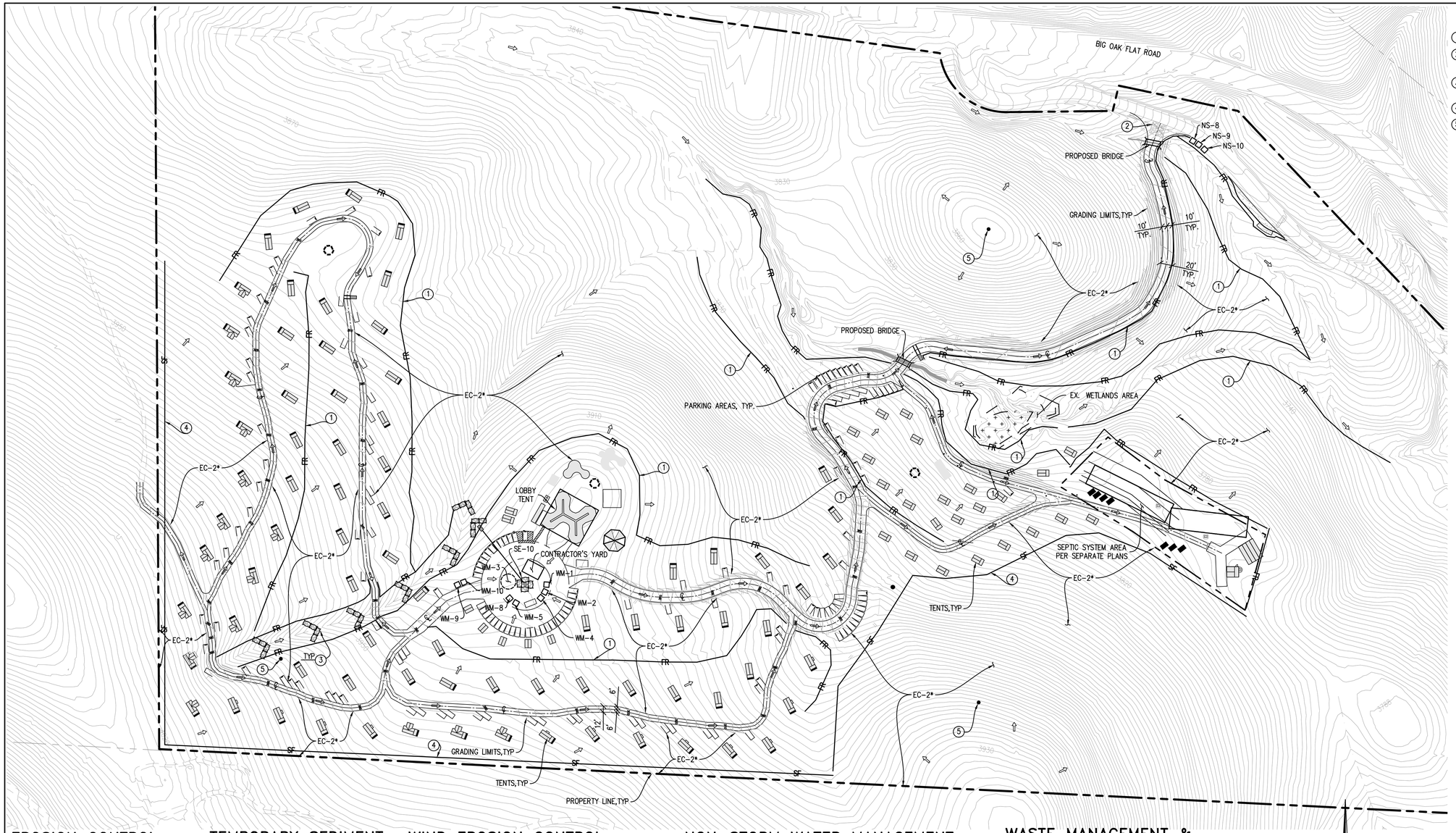
_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS

DETAILS

SHEET 7 OF 24




## CONSTRUCTION NOTES

1. INSTALL FIBER ROLL (SE-5) PER DETAILS ON SHEET 9.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-1) PER DETAILS ON SHEET 9.
3. INSTALL VELOCITY REDUCERS/CHECK DAMS (SE-4) PER DETAILS ON SHEET 9.
4. INSTALL SILT FENCE (SE-1) PER DETAILS ON SHEET 9.
5. INSTALL SAMPLING LOCATION.

## EROSION CONTROL NOTES

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. NON-STORMWATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED AT THE PROJECT SITE.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

## ADDITIONAL EROSION CONTROL NOTES

A. IN THE CASE OF EMERGENCY, CALL AT WORK PHONE 310.598.8157.
B. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON NECESSARY MATERIALS SHALL HE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
C. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OR THE BUILDING OFFICIAL.
D. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
E. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS
F. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
G. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A, HAZARDOUS CONDITION.
H. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
I. ACTIVITIES SUCH AS CLEARING OF BRUSH AND VEGETATION SHALL NOT HE INITIATED DURING THE RAINY SEASON ON ANY SITE WHICH IS NOT ADEQUATELY PROTECTED WITH DESILTING BASINS OR OTHER TEMPORARY DRAINAGE OR CONTROL MEASURES.
J. THE UNDERSIGNED CIVIL ENGINEER WILL SUPERVISE EROSION-CONTROL WORK AND AFFIRM TO THE BEST OF HIS/HER KNOWLEDGE THAT WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS.

SIGNATURE _____ DATE _____

## EROSION CONTROL

EC1 – SCHEDULING
EC2 – PRESERVATION OF EXISTING VEGETATION

## TEMPORARY SEDIMENT STABILIZATION

SE1 – SILT FENCE
SE4 – CHECK DAM
SE5 – FIBER ROLLS
SE7 – STREET SWEEPING AND VACUUMING
SE10 – STORM DRAIN INLET PROTECTION

## WIND EROSION CONTROL

WE1 – WIND EROSION CONTROL

## EQUIPMENT TRACKING CONTROL

TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT
TC3 – ENTRANCE/OUTLET TIRE WASH

## NOTES TO CONTRACTOR:

* CONTRACTOR TO PRESERVE EXISTING VEGETATION AS MUCH AS POSSIBLE.

** CONTRACTOR MAY RE-LOCATE BMP LOCATION AS REQUIRED.

## NON-STORM WATER MANAGEMENT

NS1 – WATER CONSERVATION PRACTICES
NS3 – PAVING AND GRINDING OPERATIONS
NS6 – ILLICIT CONNECTION/DISCHARGE
NS7 – POTABLE WATER/IRRIGATION
NS8 – VEHICLE AND EQUIPMENT CLEANING
NS9 – VEHICLE AND EQUIPMENT FUELING
NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
NS12 – CONCRETE CURING
NS13 – CONCRETE FINISHING
NS14 – MATERIAL AND EQUIPMENT USE

## WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL**

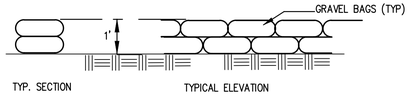
WM1 – MATERIAL DELIVERY AND STORAGE
WM2 – MATERIAL USE
WM3 – STOCKPILE MANAGEMENT
WM4 – SPILL PREVENTION AND CONTROL
WM5 – SOLID WASTE MANAGEMENT
WM6 – HAZARDOUS WASTE MANAGEMENT
WM8 – CONCRETE WASTE MANAGEMENT
WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
WM10 – LIQUID WASTE MANAGEMENT

100 50 0 100 200
SCALE IN FEET
1 inch = 100 ft.

## LEGEND

FR — FIBER ROLL
SF — SILT FENCE
STABILIZED CONSTRUCTION ENTRANCE/EXIT
VELOCITY REDUCER
FLOW ARROW

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | | | | | | | TUOLUMNE COUNTY APPROVALS | ENGINEER OF RECORD'S SEAL | DAX CONSULTING INC. | COUNTY OF TUOLUMNE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OFFICE INITIAL DATE | | | | | | | | RECOMMENDED: _____ DATE | | 23679 CALABASAS ROAD, #995<br>CALABASAS, CA 91302<br>PH (310) 598-8157 | YOSEMITE UNDER CANVAS<br>EROSION CONTROL PLAN |
| | | ENGINEERING DEVELOPMENT DIVISION | | | | | | | | | | UNDER THE SUPERVISION OF: | SHEET 8 OF 24 |
| | | BUILDING DIVISION | | | | | | | | APPROVED: _____ DATE | | _____ DAX HOFF _____ DATE | |
| | | PLANNING | | | | | | | | | | | |
| | | ENVIRONMENTAL HEALTH | | | | | | | | | | | |
| | | | MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE | | | | |
| | | | | | E.O.R | REVISION | | | | | | | |




SE-8 **SANDBAG DETAIL**
N.T.S.

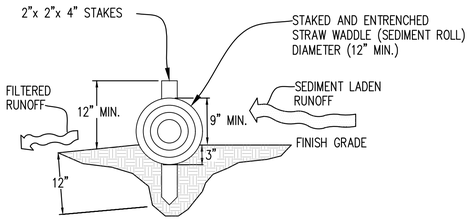
***SPACING OF ROWS OF SANDBAGS***

| SLOPE OF STREET | PAVED STREET | | UNPAVED STREET | |
|---|---|---|---|---|
| 9.9% TO 8% | 25' | 1' HIGH MIN. (2 BAGS) | 25' | 3 COURSES (18" HIGH MIN) |
| 7.9% TO 6% | 50' | | 50' | |
| 5.9% TO 4% | 75' | | 75' | 1' HIGH MIN. (2 BAGS) |
| 10% OR MORE | 100' | | 100' | |
| 3.9% OF LESS | 100' | | 100' | |

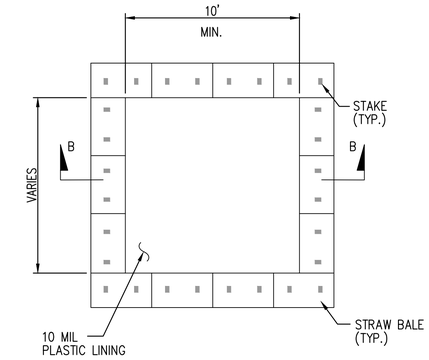
## EROSION CONTROL & INLET PROTECTION BMPs

NOTES:

1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

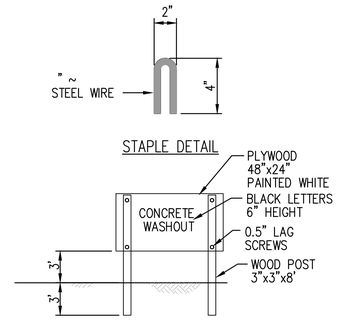



SE-5 **FIBER ROLL**
NTS




SECTION B-B
NOT TO SCALE

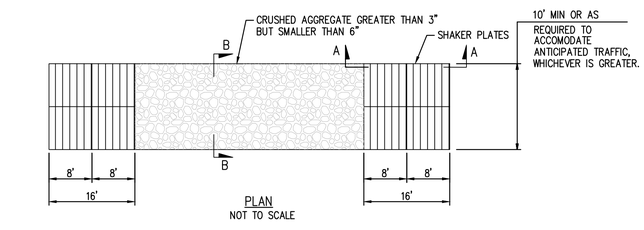
WM-8 **CONCRETE WASHOUT**
NTS



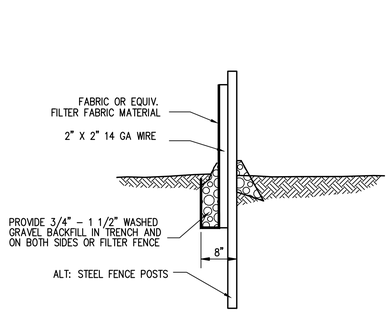

CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTES

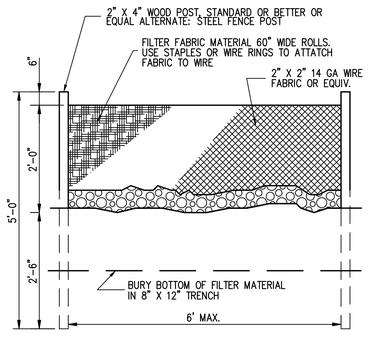
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



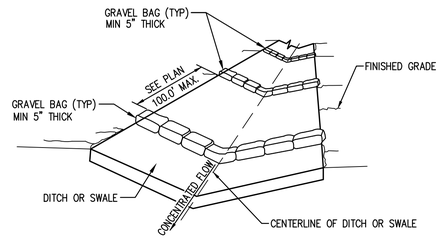

TC-1 **STABILIZED CONSTRUCTION ENTRANCE/EXIT**
NTS




* NOTE: SILT FENCE TO BE INSTALLED ON PROPERTY LINE. SILT FENCE SYMBOL ON PLAN IS SHOWN OUTSIDE PROPERTY LINES FOR CLARITY ONLY.




SE-1 **SILT FENCE**
N.T.S.




SE-4 **CHECK DAM**
N.T.S.

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY |
|---|---|---|
| | | OFFICE — INITIAL — DATE |
| | | ENGINEERING DEVELOPMENT DIVISION |
| | | BUILDING DIVISION |
| | | PLANNING |
| | | ENVIRONMENTAL HEALTH |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE

APPROVED: _____ DATE

ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157

UNDER THE SUPERVISION OF:

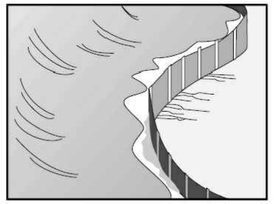
DAX HOFF — DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
EROSION CONTROL DETAILS

SHEET 9 OF 24

# Silt Fence SE-1



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | ☑ |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-10 Storm Drain Inlet Protection
SE-14 Biofilter Bags

### Description and Purpose

A silt fence is made of a woven geotextile that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains sediment-laden water, promoting sedimentation behind the fence.

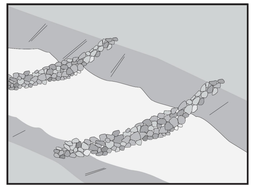
### Suitable Applications

Silt fences are suitable for perimeter control, placed below areas where sheet flows discharge from the site. They could also be used as interior controls below disturbed areas where runoff may occur in the form of sheet and rill erosion and around inlets within disturbed areas (SE-10). Silt fences are generally ineffective in locations where the flow is concentrated and are only applicable for sheet or overland flows. Silt fences are most effective when used in combination with erosion controls. Suitable applications include:

- Along the perimeter of a project.
- Below the toe or down slope of exposed and erodible slopes.
- Along streams and channels.
- Around temporary spoil areas and stockpiles.
- Around inlets.
- Below other small cleared areas.



# Check Dams SE-4



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | ☒ |
| SE | Sediment Control | ☑ |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-12 Manufactured Linear Sediment Controls
SE-14 Biofilter Bags

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### Description and Purpose

A check dam is a small barrier constructed of rock, gravel bags, sandbags, fiber rolls, or other proprietary products, placed across a constructed swale or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing scour and channel erosion by reducing flow velocity and increasing residence time within the channel, allowing sediment to settle.

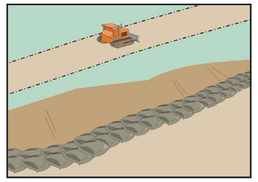
### Suitable Applications

Check dams may be appropriate in the following situations:

- To promote sedimentation behind the dam.
- To prevent erosion by reducing the velocity of channel flow in small intermittent channels and temporary swales.
- In small open channels that drain 10 acres or less.
- In steep channels where stormwater runoff velocities exceed 5 ft/s.
- During the establishment of grass linings in drainage ditches or channels.
- In temporary ditches where the short length of service does not warrant establishment of erosion-resistant linings.
- To act as a grade control structure.



# Sandbag Barrier SE-8



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | ☒ |
| SE | Sediment Control | ☑ |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

SE-1 Silt Fence
SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-12 Manufactured Linear Sediment Controls
SE-14 Biofilter Bags

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### Description and Purpose

A sandbag barrier is a series of sand-filled bags placed on a level contour to intercept or to divert sheet flows. Sandbag barriers placed on a level contour pond sheet flow runoff, allowing sediment to settle out.

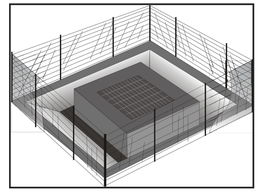
### Suitable Applications

Sandbag barriers may be a suitable control measure for the applications described below. It is important to consider that sand bags are less porous than gravel bags and ponding or flooding can occur behind the barrier. Also, sand is easily transported by runoff if bags are damaged or ruptured. The SWPPP Preparer should select the location of a sandbag barrier with respect to the potential for flooding, damage, and the ability to maintain the BMP.

- As a linear sediment control measure:
  - Below the toe of slopes and erodible slopes.
  - As sediment traps at culvert/pipe outlets.
  - Below other small cleared areas.
  - Along the perimeter of a site.
  - Down slope of exposed soil areas.
  - Around temporary stockpiles and spoil areas.
  - Parallel to a roadway to keep sediment off paved areas.
  - Along streams and channels.



# Storm Drain Inlet Protection SE-10



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | ☑ |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | ☒ |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

SE-1 Silt Fence
SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-14 Biofilter Bags
SE-13 Compost Socks and Berms

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### Description and Purpose

Storm drain inlet protection consists of a sediment filter or an impounding area in, around or upstream of a storm drain, drop inlet, or curb inlet. Storm drain inlet protection measures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Some filter configurations also remove sediment by filtering, but usually the ponding action results in the greatest sediment reduction. Temporary geotextile storm drain inserts attach underneath storm drain grates to capture and filter storm water.

### Suitable Applications

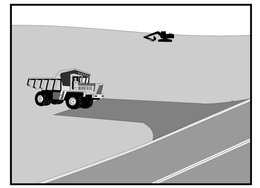
- Every storm drain inlet receiving runoff from unstabilized or otherwise active work areas should be protected. Inlet protection should be used in conjunction with other erosion and sediment controls to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

### Limitations

- Drainage area should not exceed 1 acre.
- In general straw bales should not be used as inlet protection.
- Requires an adequate area for water to pond without encroaching into portions of the roadway subject to traffic.
- Sediment removal may be inadequate to prevent sediment discharges in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use



# Stabilized Construction Entrance/Exit TC-1



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | ☒ |
| SE | Sediment Control | ☒ |
| TC | Tracking Control | ☑ |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Objective**
☒ **Secondary Objective**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

None

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### Description and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

### Suitable Applications

Use at construction sites:

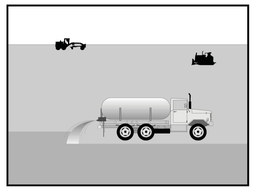
- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

### Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water runoff.



# Wind Erosion Control WE-1



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | ☒ |
| TC | Tracking Control | |
| WE | Wind Erosion Control | ☑ |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

EC-5 Soil Binders

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### Description and Purpose

Wind erosion or dust control consists of applying water or other chemical dust suppressants as necessary to prevent or alleviate dust nuisance generated by construction activities. Covering small stockpiles or areas is an alternative to applying water or other dust palliatives.

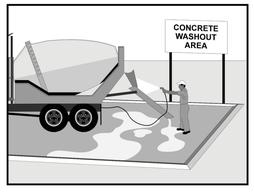
California's Mediterranean climate, with a short "wet" season and a typically long, hot "dry" season, allows the soils to thoroughly dry out. During the dry season, construction activities are at their peak, and disturbed and exposed areas are increasingly subject to wind erosion, sediment tracking and dust generated by construction equipment. Site conditions and climate can make dust control more of an erosion problem than water based erosion. Additionally, many local agencies, including Air Quality Management Districts, require dust control and/or dust control permits in order to comply with local nuisance laws, opacity laws (visibility impairment) and the requirements of the Clean Air Act. Wind erosion control is required to be implemented at all construction sites greater than 1 acre by the General Permit.

### Suitable Applications

Most BMPs that provide protection against water-based erosion will also protect against wind-based erosion and dust control requirements required by other agencies will generally meet wind erosion control requirements for water quality protection. Wind erosion control BMPs are suitable during the following construction activities:



# Concrete Waste Management WM-8




**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | ☒ |
| WM | Waste Management and Materials Pollution Control | ☑ |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | |
| Trash | |
| Metals | ☑ |
| Bacteria | |
| Oil and Grease | |
| Organics | |

**Potential Alternatives**

None

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### Description and Purpose

Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

The General Permit incorporates Numeric Action Levels (NAL) for pH (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials, including mortar, concrete, stucco, cement and block and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows and raising pH to levels outside the accepted range.

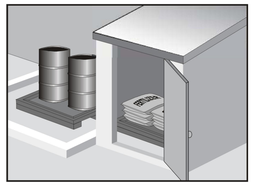
### Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed onsite.



# Material Delivery and Storage WM-1



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | ☑ |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | ☑ |
| Nutrients | ☑ |
| Trash | ☑ |
| Metals | ☑ |
| Bacteria | |
| Oil and Grease | ☑ |
| Organics | ☑ |

**Potential Alternatives**

None

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### Description and Purpose

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in watertight containers and/or a completely enclosed designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors.

This best management practice covers only material delivery and storage. For other information on materials, see WM-2, Material Use, or WM-4, Spill Prevention and Control. For information on wastes, see the waste management BMPs in this section.

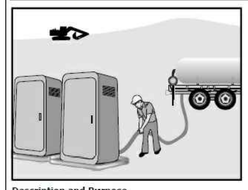
### Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- Soil stabilizers and binders
- Pesticides and herbicides
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease



# Sanitary/Septic Waste Management WM-9



**Categories**

| | | |
|---|---|---|
| EC | Erosion Control | |
| SE | Sediment Control | |
| TC | Tracking Control | |
| WE | Wind Erosion Control | |
| NS | Non-Stormwater Management Control | |
| WM | Waste Management and Materials Pollution Control | ☑ |

**Legend:**
☑ **Primary Category**
☒ **Secondary Category**

**Targeted Constituents**

| | |
|---|---|
| Sediment | |
| Nutrients | ☑ |
| Trash | ☑ |
| Metals | |
| Bacteria | ☑ |
| Oil and Grease | |
| Organics | ☑ |

**Potential Alternatives**

None

### Description and Purpose

Proper sanitary and septic waste management prevent the discharge of pollutants to stormwater from sanitary and septic waste by providing convenient, well-maintained facilities, and arranging for regular service and disposal.

### Suitable Applications

Sanitary septic waste management practices are suitable for use at all construction sites that use temporary or portable sanitary and septic waste systems.

### Limitations

None identified.

### Implementation

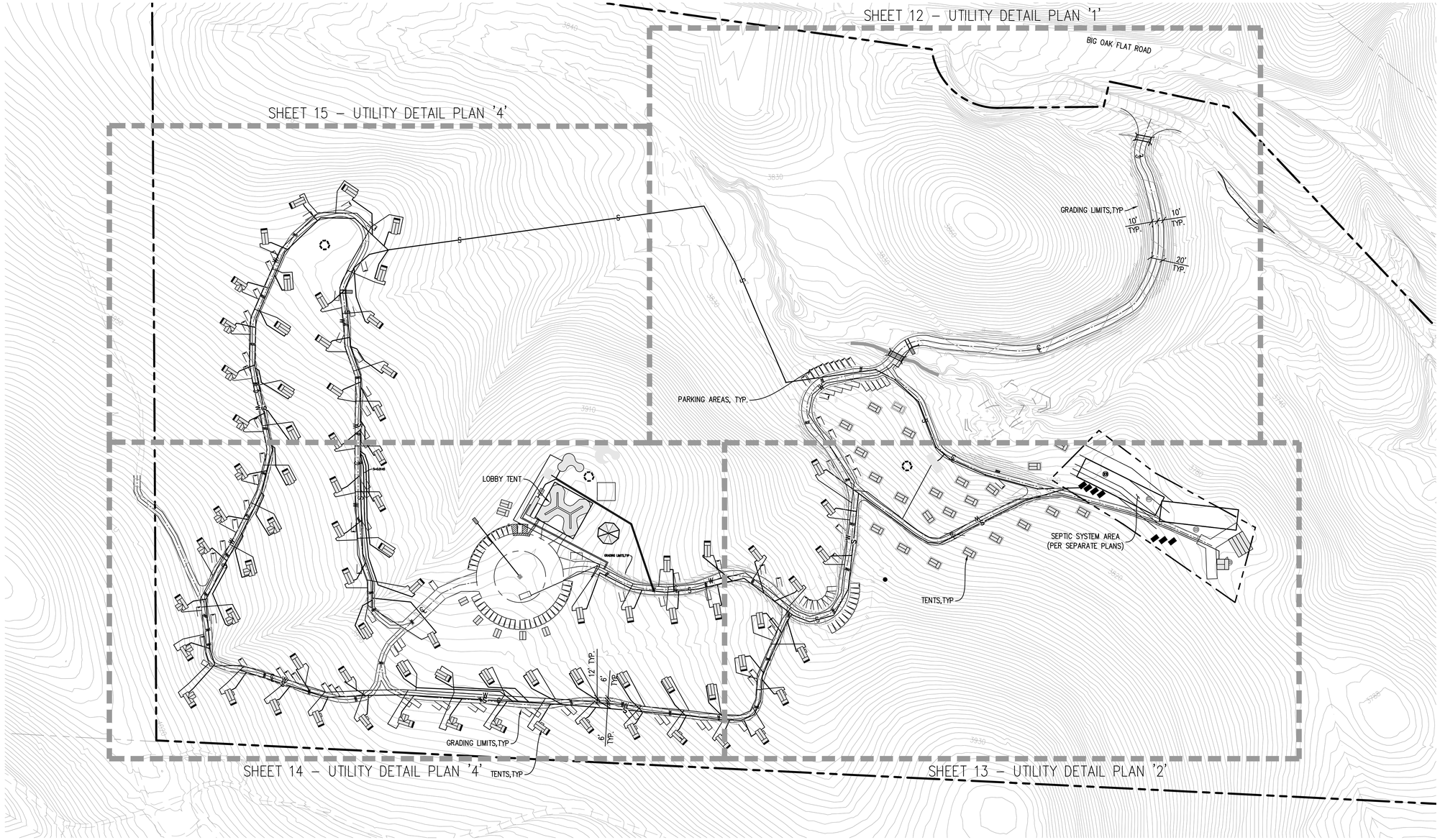
Sanitary or septic wastes should be treated or disposed of in accordance with state and local requirements. In many cases, one contract with a local facility supplier will be all that it takes to make sure sanitary wastes are properly disposed.

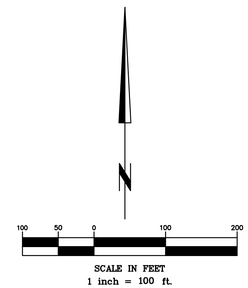
***Storage and Disposal Procedures***

- Temporary sanitary facilities should be located away from drainage facilities, watercourses, and from traffic circulation. If site conditions allow, place portable facilities a minimum of 50 feet from drainage conveyances and traffic areas. When subjected to high winds or risk of high winds, temporary sanitary facilities should be secured to prevent overturning.



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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OFFICE INITIAL DATE | | | | | | | | RECOMMENDED: _____ DATE | | 23679 CALABASAS ROAD, #995 CALABASAS, CA 91302 PH (310) 598-8157 | YOSEMITE UNDER CANVAS EROSION CONTROL DETAILS |
| | | ENGINEERING DEVELOPMENT DIVISION | | | | | | | | | | UNDER THE SUPERVISION OF: | SHEET 10 OF 24 |
| | | BUILDING DIVISION | | | | | | | | APPROVED: _____ DATE | | DAX HOFF DATE | |
| | | PLANNING | | | | | | | | | | | |
| | | ENVIRONMENTAL HEALTH | | | | | | | | | | | |
| | | | MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE | | | | |
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BENCHMARK

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| BUILDING DIVISION | | |
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| ENVIRONMENTAL HEALTH | | |
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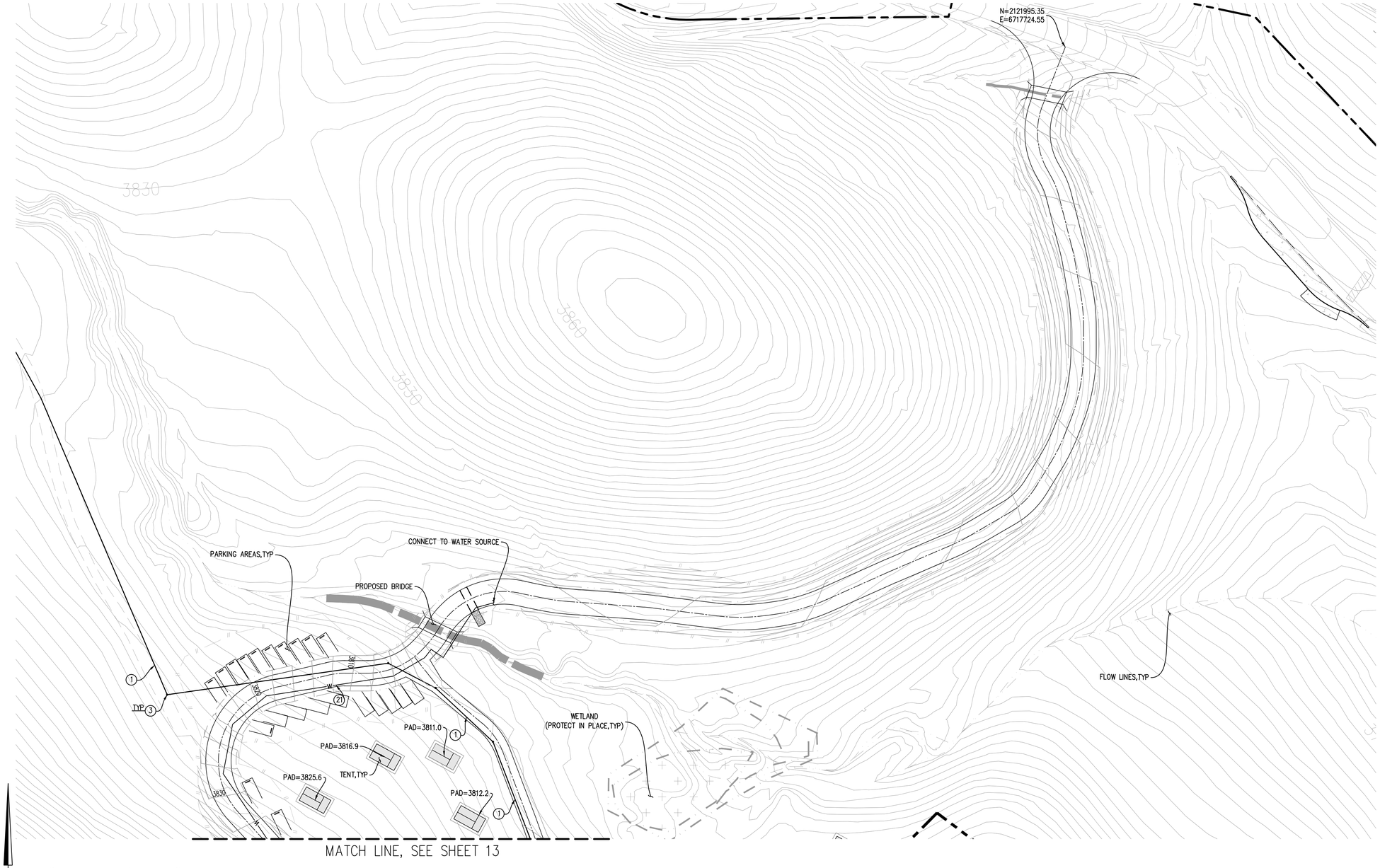
_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS

OVERALL UTILITY PLAN

SHEET 11 OF 24




## SEWER NOTES

1. INSTALL 6" PVC SDR 35 SEWER LINE.
2. INSTALL 3" PVC SDR 35 SEWER LATERAL.
3. INSTALL SEWER CLEAN-OUT PER DETAIL ON SHEET 16. PROVIDE CLEAN-OUT ON ALL ANGLE POINTS AND PIPE INTERSECTION. PROVIDE CLEAN-OUT AT MIN. 200' SPACING.
4. INSTALL 8" PVC SDR 35 SEWER LATERAL.
5. INSTALL 4" PVC SDR 35 SEWER LATERAL.

## WATER NOTES

20. INSTALL 3/4" TYPE 'K' COPPER TUBING WATER SERVICE LINE
21. INSTALL 2" PVC WATERLINE OR TYPE 'K' COPPER TUBING.

BENCHMARK

BASIS OF BEARING

REVIEW BY TUOLUMNE COUNTY

| OFFICE | INITIAL | DATE |
|---|---|---|
| ENGINEERING DEVELOPMENT DIVISION | | |
| BUILDING DIVISION | | |
| PLANNING | | |
| ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

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CALABASAS, CA 91302
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UNDER THE SUPERVISION OF:

_____ DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

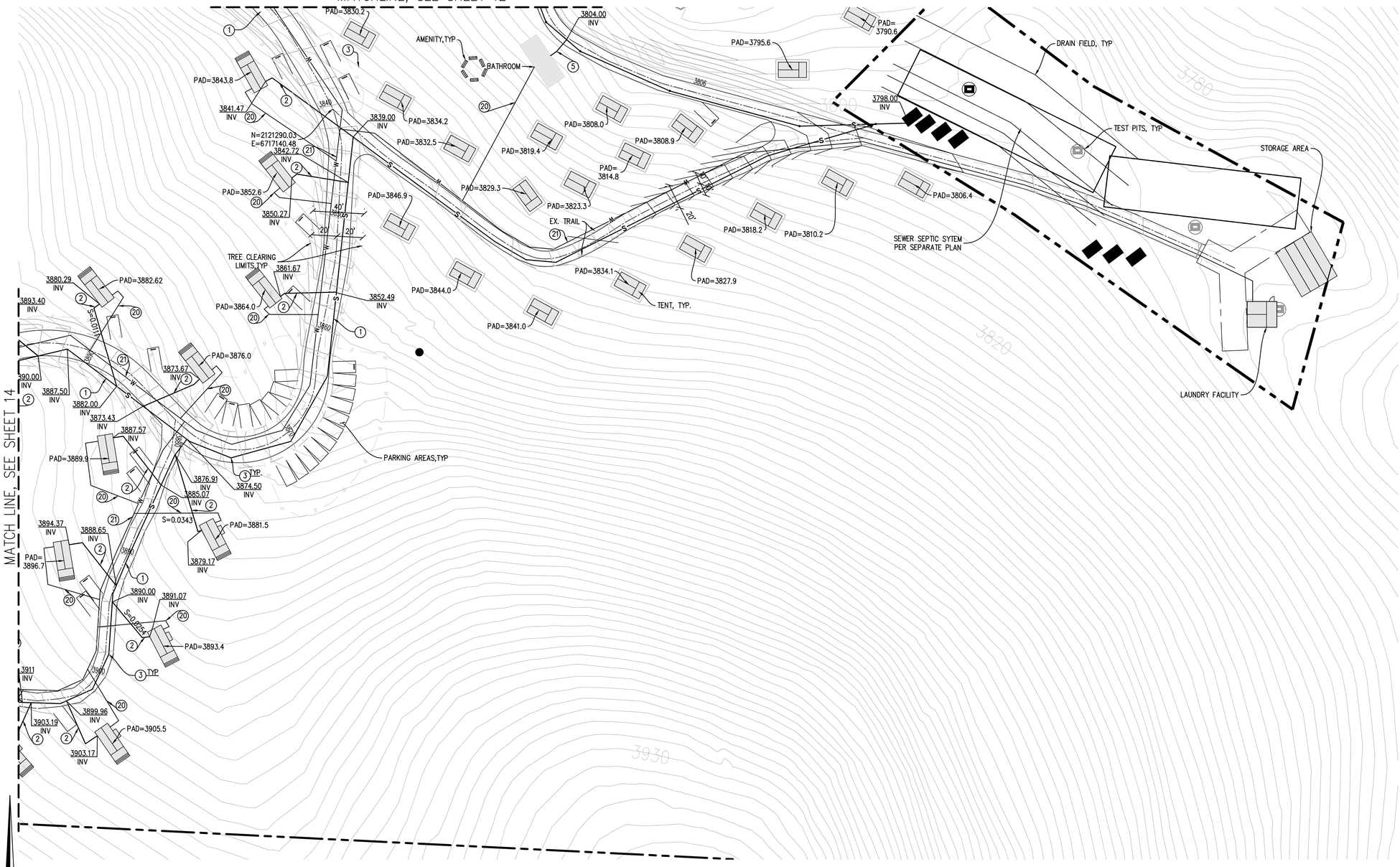
YOSEMITE UNDER CANVAS

DETAIL UTILITY PLAN '1'

SHEET 12 OF 24

MATCHLINE, SEE SHEET 12

MATCH LINE, SEE SHEET 14




## SEWER NOTES

1. INSTALL 6" PVC SDR 35 SEWER LINE.
2. INSTALL 3" PVC SDR 35 SEWER LATERAL.
3. INSTALL SEWER CLEAN-OUT PER DETAIL ON SHEET 16. PROVIDE CLEAN-OUT ON ALL ANGLE POINTS AND PIPE INTERSECTION. PROVIDE CLEAN-OUT AT MIN. 200' SPACING.
4. INSTALL 8" PVC SDR 35 SEWER LATERAL.
5. INSTALL 4" PVC SDR 35 SEWER LATERAL.

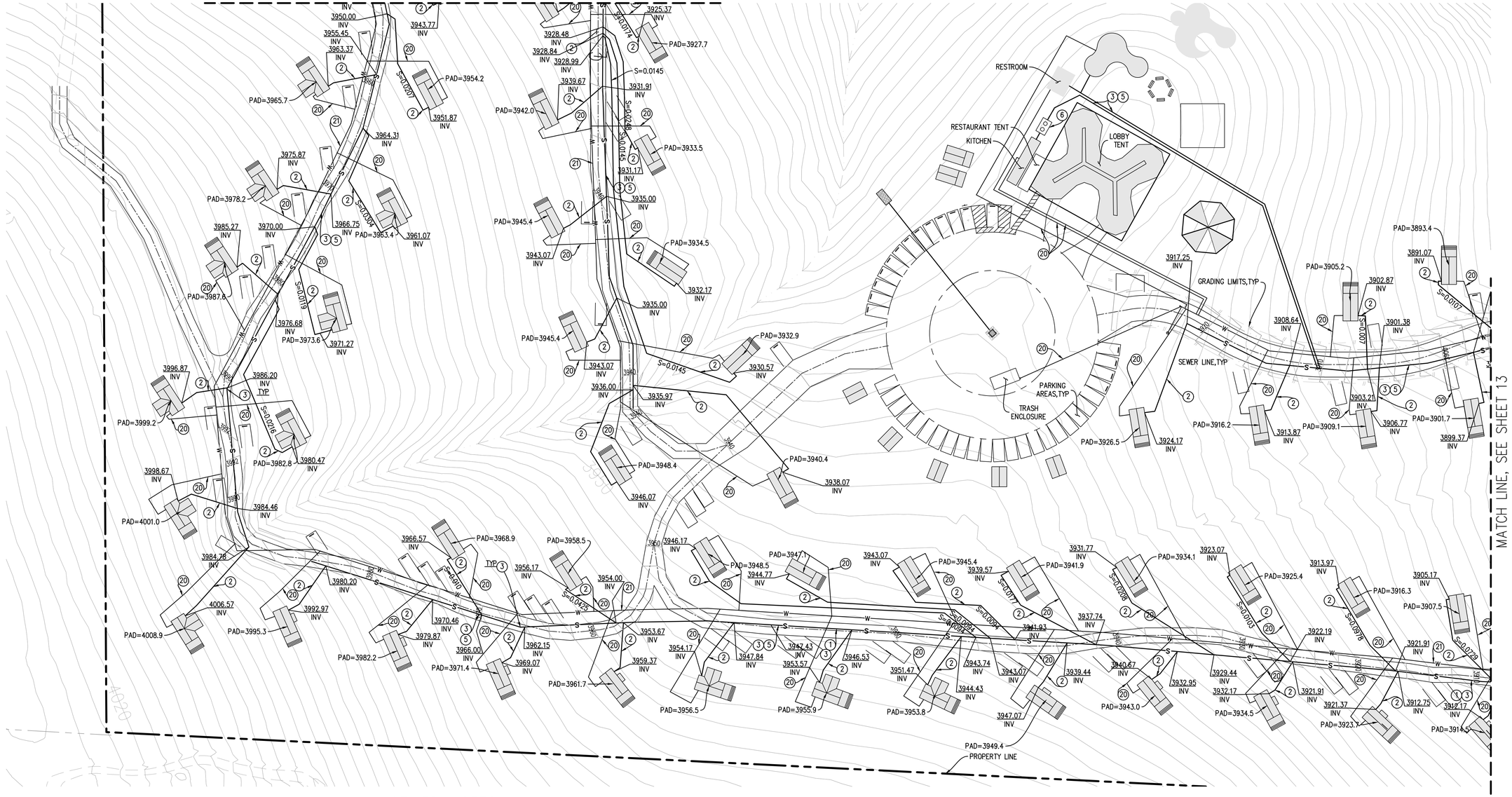
## WATER NOTES

20. INSTALL 3/4" TYPE 'K' COPPER TUBING WATER SERVICE LINE
21. INSTALL 2" PVC WATERLINE OR TYPE 'K' COPPER TUBING.

40 20 0 40 80

SCALE IN FEET
1 inch = 40 ft.

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY | | | | | | | | | TUOLUMNE COUNTY APPROVALS | ENGINEER OF RECORD'S SEAL | DAX CONSULTING INC. | COUNTY OF TUOLUMNE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OFFICE INITIAL DATE | | | | | | | | | RECOMMENDED: | | 23679 CALABASAS ROAD, #995 | YOSEMITE UNDER CANVAS |
| | | ENGINEERING DEVELOPMENT DIVISION | | | | | | | | | _____ DATE | | CALABASAS, CA 91302 | DETAIL UTILITY PLAN '2' |
| | | BUILDING DIVISION | | | | | | | | | APPROVED: | | PH (310) 598-8157 | |
| | | PLANNING | | | | | | | | | _____ DATE | | UNDER THE SUPERVISION OF: | SHEET 13 OF 24 |
| | | ENVIRONMENTAL HEALTH | | | | | | | | | | | _____ DAX HOFF _____ DATE | |
| | | | MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE | | | | | |
| | | | | | E.O.R | REVISION | | | | | | | | |




## SEWER NOTES

1. INSTALL 6" PVC SDR 35 SEWER LINE.
2. INSTALL 3" PVC SDR 35 SEWER LATERAL.
3. INSTALL SEWER CLEAN-OUT PER DETAIL ON SHEET 16. PROVIDE CLEAN-OUT ON ALL ANGLE POINTS AND PIPE INTERSECTION. PROVIDE CLEAN-OUT AT MIN. 200' SPACING.
4. INSTALL 8" PVC SDR 35 SEWER LATERAL.
5. INSTALL 4" PVC SDR 35 SEWER LATERAL.
6. INSTALL GREASE INTERCEPTOR BY JENSEN PRECAST OR APPROVED EQUAL.

## WATER NOTES

20. INSTALL 3/4" TYPE 'K' COPPER TUBING WATER SERVICE LINE
21. INSTALL 2" PVC WATERLINE OR TYPE 'K' COPPER TUBING.

40 20 0 40 80
SCALE IN FEET
1 inch = 40 ft.

| BENCHMARK | BASIS OF BEARING | REVIEW BY TUOLUMNE COUNTY |
|---|---|---|
| | | OFFICE — INITIAL — DATE |
| | | ENGINEERING DEVELOPMENT DIVISION |
| | | BUILDING DIVISION |
| | | PLANNING |
| | | ENVIRONMENTAL HEALTH |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
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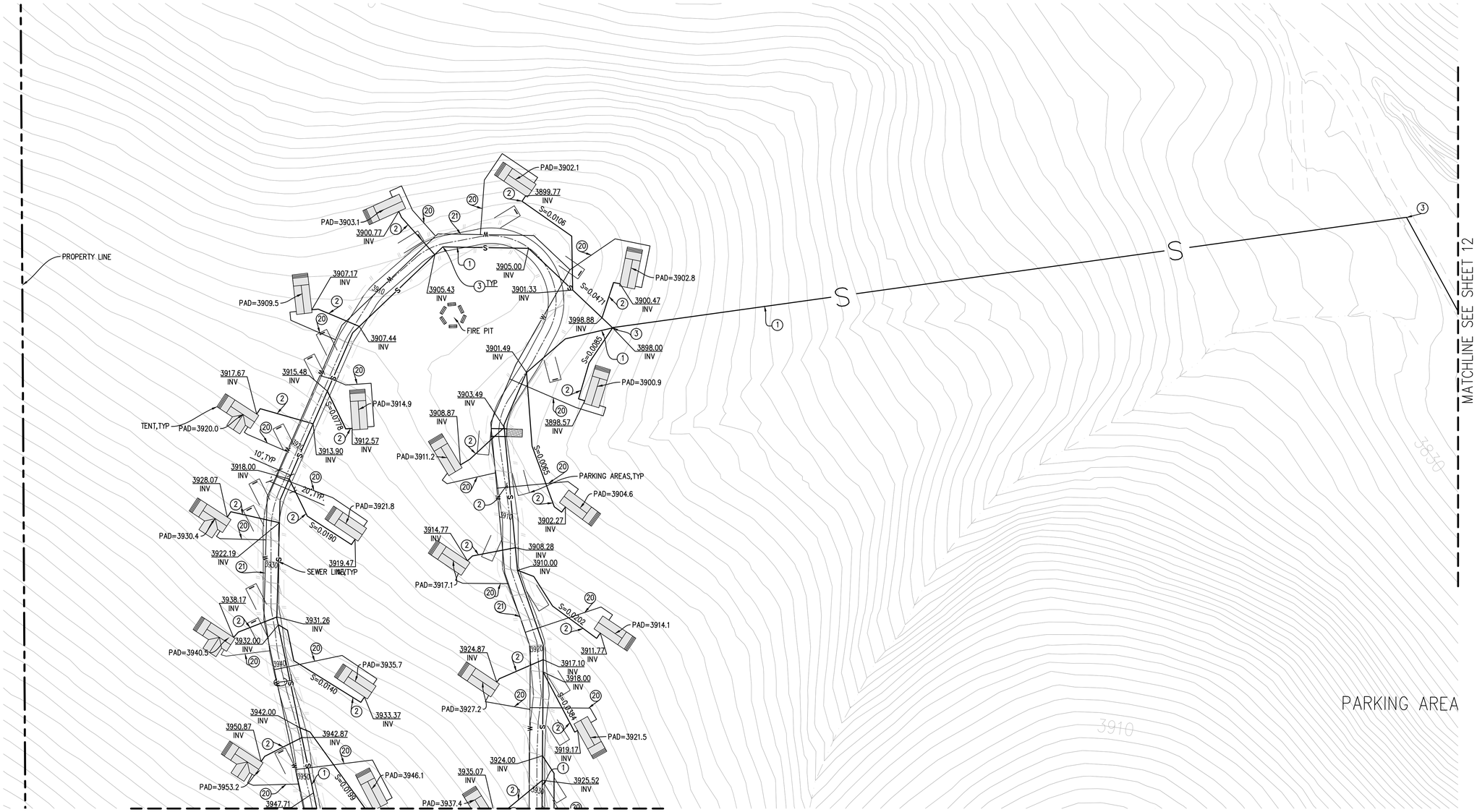
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# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS
DETAIL UTILITY PLAN '3'

SHEET 14 OF 24




## SEWER NOTES

1. INSTALL 6" PVC SDR 35 SEWER LINE.
2. INSTALL 3" PVC SDR 35 SEWER LATERAL.
3. INSTALL SEWER CLEAN-OUT PER DETAIL ON SHEET 16. PROVIDE CLEAN-OUT ON ALL ANGLE POINTS AND PIPE INTERSECTION. PROVIDE CLEAN-OUT AT MIN. 200' SPACING.
4. INSTALL 8" PVC SDR 35 SEWER LATERAL.
5. INSTALL 4" PVC SDR 35 SEWER LATERAL.

## WATER NOTES

20. INSTALL 3/4" TYPE 'K' COPPER TUBING WATER SERVICE LINE
21. INSTALL 2" PVC WATERLINE OR TYPE 'K' COPPER TUBING.

N

40 20 0 40 80

SCALE IN FEET
1 inch = 40 ft.

BENCHMARK

BASIS OF BEARING

REVIEW BY TUOLUMNE COUNTY

| OFFICE | INITIAL | DATE |
|---|---|---|
| ENGINEERING DEVELOPMENT DIVISION | | |
| BUILDING DIVISION | | |
| PLANNING | | |
| ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

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CALABASAS, CA 91302
PH (310) 598-8157

UNDER THE SUPERVISION OF:

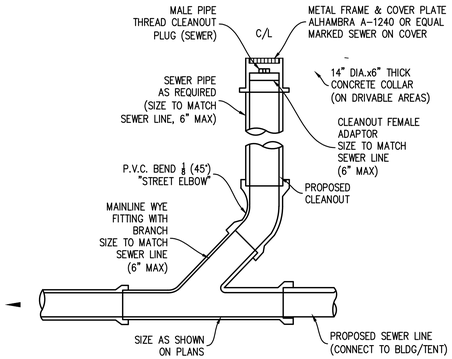
DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS

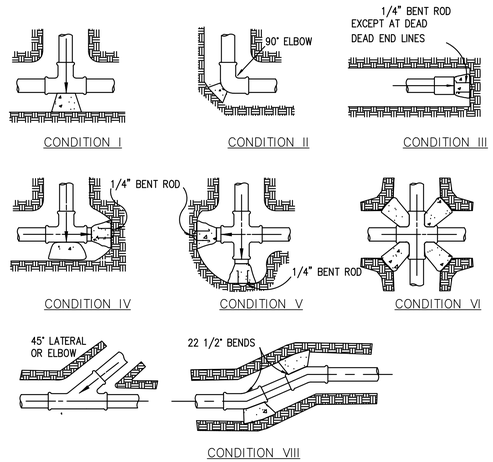
DETAIL UTILITY PLAN '4'

SHEET 15 OF 24




## 3 SEWER CLEANOUT DETAIL

NTS




| THRUST BLOCK BEARING AREA IN SQUARE FEET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | CONDITION | | | | | | | |
| PIPE SIZE | I | II | III | IV | V | VI | VII | VIII |
| 4" | 2.0 | 2.9 | 2.0 | 2 @ 2.0 | 2 @ 2.0 | 4 @ 1.6 | 2.0 | 2 @ 1.6 |
| 6" | 4.3 | 6.0 | 4.3 | 2 @ 4.3 | 2 @ 4.3 | 4 @ 3.3 | 4.3 | 2 @ 3.3 |
| 8" | 7.4 | 10.5 | 7.4 | 2 @ 7.4 | 2 @ 7.4 | 4 @ 5.7 | 7.4 | 2 @ 5.7 |
| 10" | 12.1 | 17.1 | 12.1 | 2 @ 12.1 | 2 @ 12.1 | 4 @ 9.3 | 12.1 | 2 @ 9.3 |
| 12" | 17.2 | 24.3 | 17.2 | 2 @ 17.2 | 2 @ 17.2' | 4 @ 13.2 | 17.2 | 2 @ 13.2 |
| 14" | 20.7 | 29.3 | 20.7 | 2 @ 20.7 | 2 @ 20.7 | 4 @ 15.8 | 20.7 | 2 @ 15.8 |
| 16" | 26.7 | 37.8 | 26.7 | 2 @ 26.7 | 2 @ 26.7' | 4 @ 20.5 | 26.7 | 2 @ 20.5 |

NOTES

1. PIPE FITTINGS SHALL BE WRAPPED WITH TWO LAYERS OF 90-LB. TAR PAPER OR FELT.
2. ALL BURIED BOLTS SHALL BE COATED WITH "DEVWRAP 142S" OR APPROVED EQUAL.
3. THRUST BLOCK AREAS BASED ON 225 PSI PRESSURE AND 2,000 PSF ALLOWABLE SOIL PRESSURE WITH 2.5 FEET OF COVER MINIMUM. ADDITIONAL BEARING AREA REQUIRED FOR SPECIAL CONDITIONS SHALL BE APPROVED BY THE ENGINEER.
4. THRUST BLOCK BEARING FACES SHALL BE PLACED AGAINST UNDISTURBED SOIL, APPROVED COMPACTED BACKFILL OR CLASS 100-E-100 SLURRY.
5. THRUST BLOCKS SHALL BE CLASS 560-C-3250 CONCRETE, UNLESS SPECIFIED OTHERWISE.
6. TO FACILITATE FUTURE REMOVAL OF THRUST BLOCKS AND LINE EXTENSIONS:
   A: INSTALL 1/4" BENT ROD HANDLES.
   B. USE CARDBOARD SEPARATORS BETWEEN BLOCKS, IF NEEDED.

## CONCRETE THRUST BLOCK

NTS

BENCHMARK

BASIS OF BEARING

REVIEW BY TUOLUMNE COUNTY

| OFFICE | INITIAL | DATE |
|---|---|---|
| ENGINEERING DEVELOPMENT DIVISION | | |
| BUILDING DIVISION | | |
| PLANNING | | |
| ENVIRONMENTAL HEALTH | | |

| MARK | DATE | INITIAL | DESCRIPTION | REC. | APPR | DATE |
|---|---|---|---|---|---|---|
| | | E.O.R | REVISION | | | |

TUOLUMNE COUNTY APPROVALS

RECOMMENDED: _____ DATE _____

APPROVED: _____ DATE _____

ENGINEER OF RECORD'S SEAL

DAX CONSULTING INC.
23679 CALABASAS ROAD, #995
CALABASAS, CA 91302
PH (310) 598-8157

UNDER THE SUPERVISION OF:

DAX HOFF _____ DATE

# COUNTY OF TUOLUMNE

YOSEMITE UNDER CANVAS

UTILITY DETAILS

SHEET 16 OF 24