

IMPROVEMENT CW-C7

CONSULTING CIVIL ENGINEERS

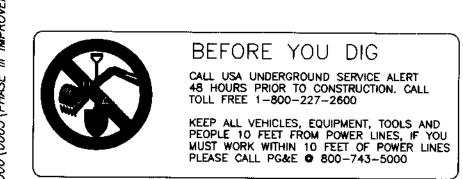
ENGINEERING • PLANNING • SURVEYING 1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242

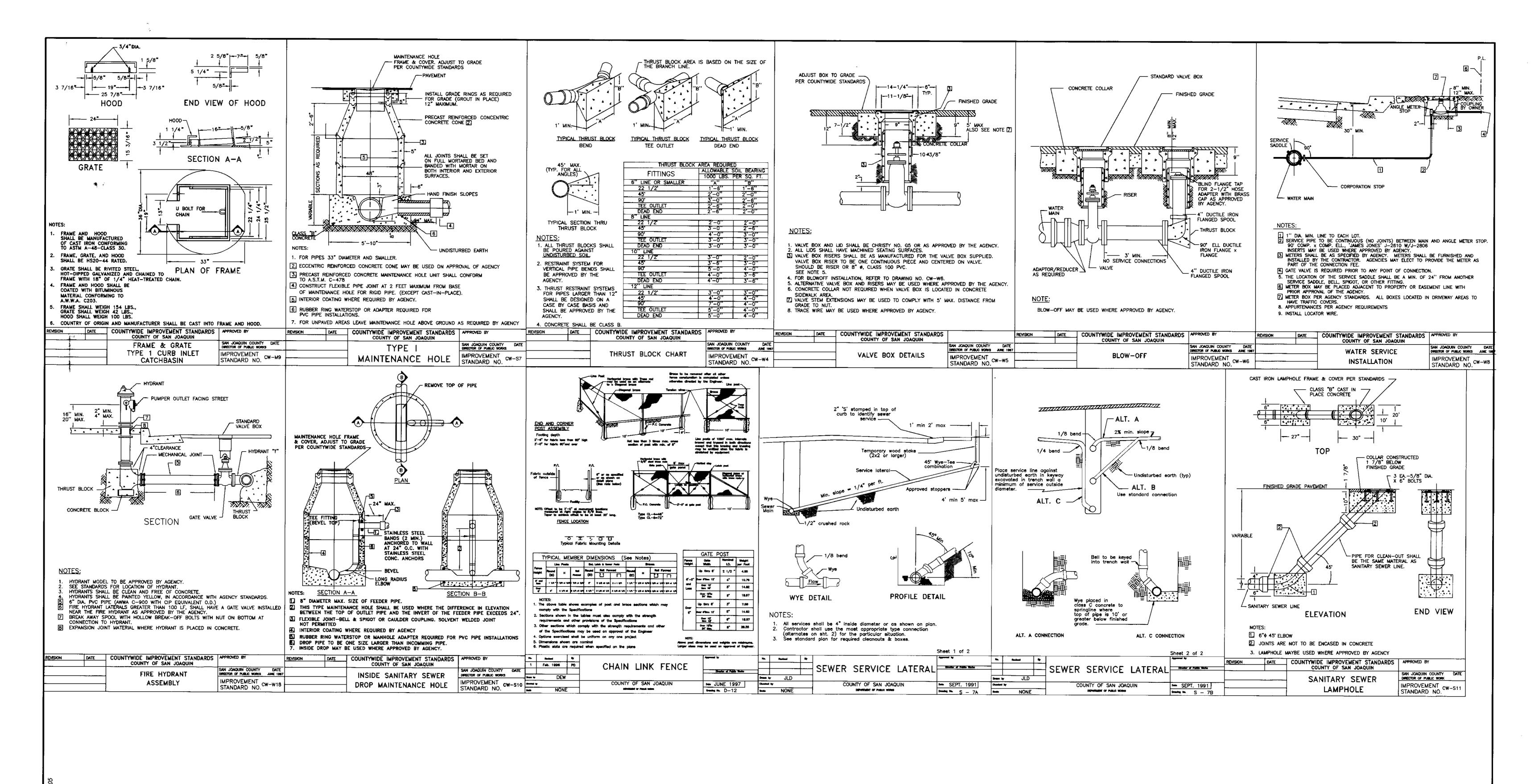
IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

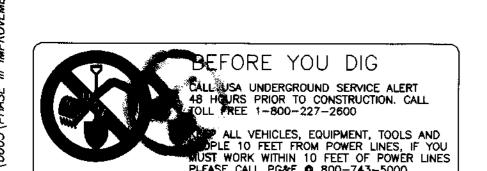
SAN JOAQUIN COUNTY STANDARD PLANS & TYPICAL STREET SECTION

> NOVEMBER, 2004 SAN JOAQUIN COUNTY, CALIFORNIA

EV. NO.	DESCRIPTION	DATE	SCALE: N.T.S.	BENCH MARK: EL:	SHEET
			DRAWN BY: LM	DESCRIPTION:	17
	· <u></u>		DESIGNED BY:		OF 17 SHEETS
			CHECKED BY:]	JOB NO.
i			AS BUILT BY:		0005







DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

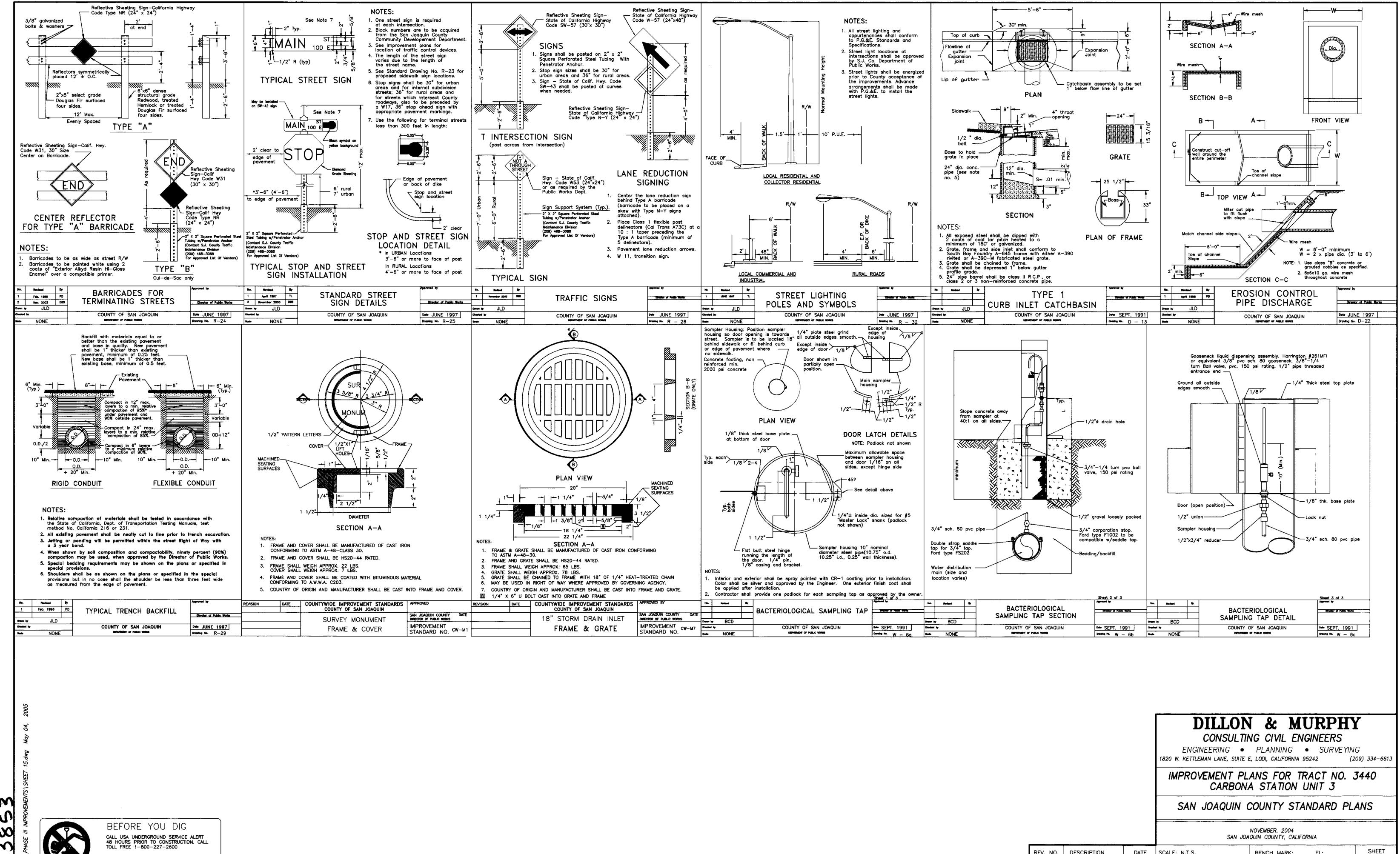
ENGINEERING • PLANNING • SURVEYING
1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242 (209) 334-6613

IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

SAN JOAQUIN COUNTY STANDARD PLANS

NOVEMBER, 2004								
SAN	JOAQUIN	COUNTY,	CALIFORNIA					

v. NO.	DESCRIPTION	DATE	SCALE: N.T.S.	BENCH MARK: EL:	SHEET
			DRAWN BY: LM	DESCRIPTION:	16
			DESIGNED BY:		OF 17 SHEETS
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REV. NO. DESCRIPTION

DATE | SCALE: N.T.S.

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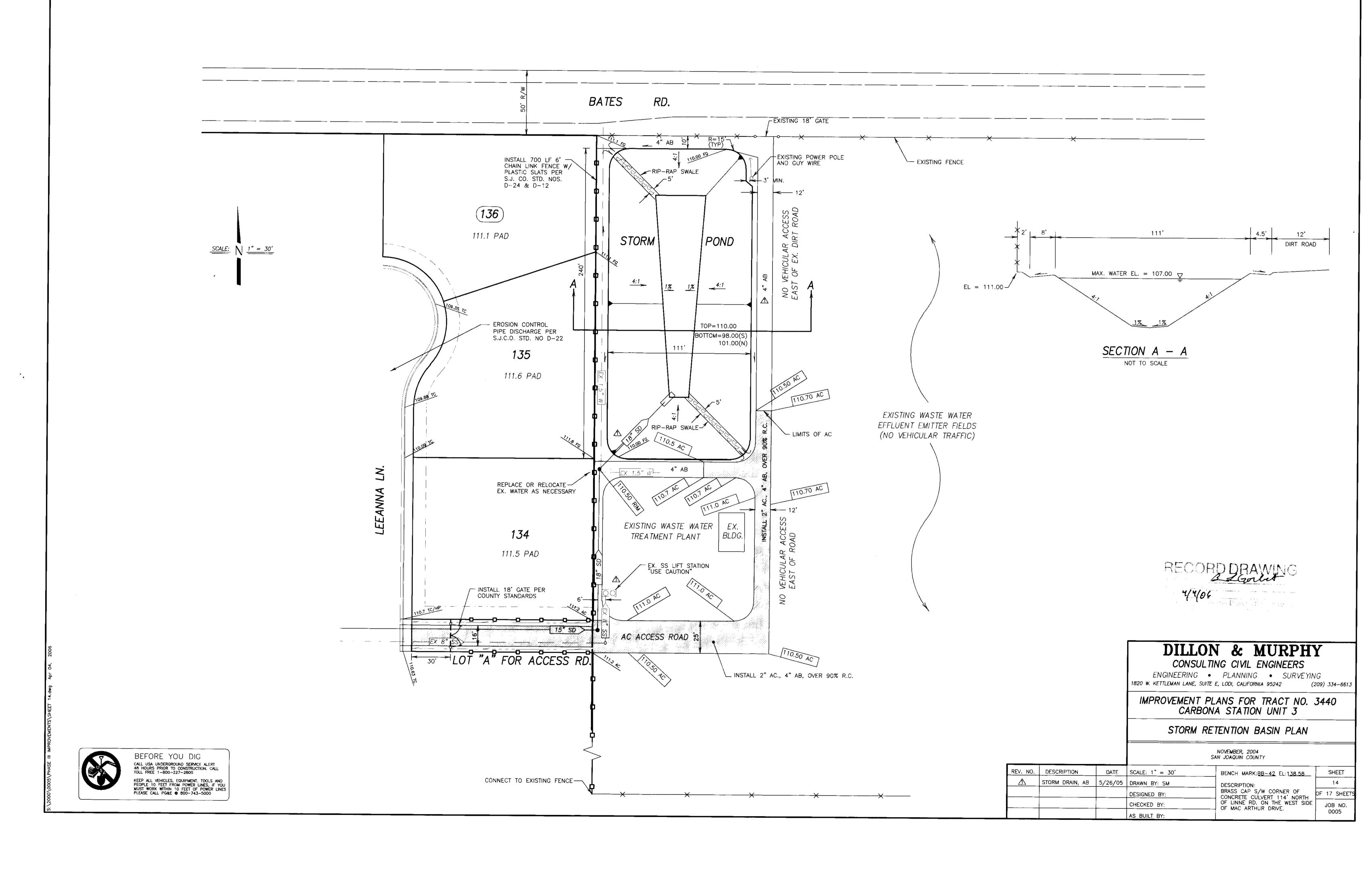
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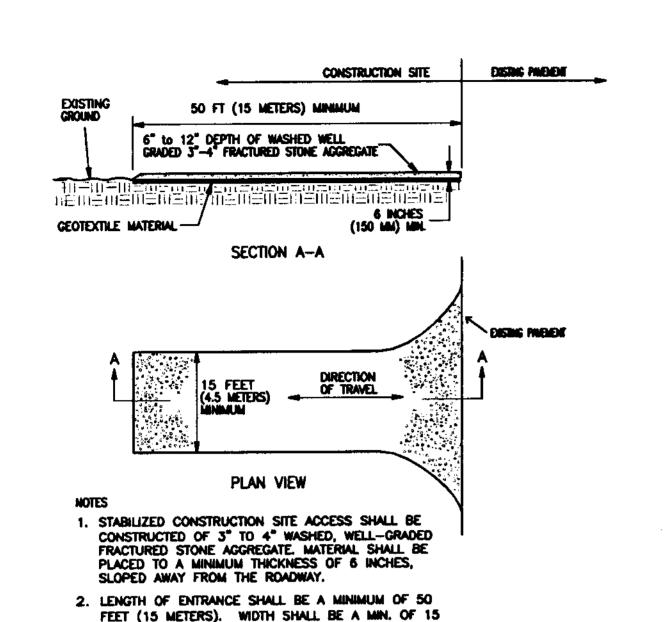
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JOB NO. 0005

OF 17 SHEETS

KEEP ALL VEHICLES, EQUIPMENT, TOOLS AND PEOPLE 10 FEET FROM POWER LINES, IF YOU MUST WORK WITHIN 10 FEET OF POWER LINES PLEASE CALL PG&E @ 800-743-5000





FT (4.5 METERS) OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.

3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION

4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH

BY OCCASIONAL TOP DRESSING WITH MATERIAL AS

MAINTENANCE PROMDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

CONSTRUCTION ENTRANCE

PROVIDE AMPLE TURNING RADII.

GRAVEL BAGS TO OVERLAP ONTO CURB-

- 1. GRAVEL BAGS SHALL BE WOVEN GEOTEXTILE FABRIC.
 2. CONSTRUCT ON GENTLY SLOPING STREET WHERE WATER CAN POND AND ALLOW
- SEDIMENT TO SEPARATE OUT OF SUSPENSION. 3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS SPILLWAY, SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT AND SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVER STORM EVENT.
- 4. PLACE TWO LAYERS OF GRAVEL BAGS. OVER LAP BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 3/4" DRAIN ROCK. 5. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
- 6. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD. 7. GRAVEL BAG INLET PROTECTION ON ROADS OPEN TO THE PUBLIC WILL REQUIRE DELINEATION DEVICES TO ALERT MOTORISTS, BICYCLISTS AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE SUBJECT TO THE ENGINEERS APPROVAL.

② CURB INLET DETAIL

FIBER ROLL

1. FILTER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH.

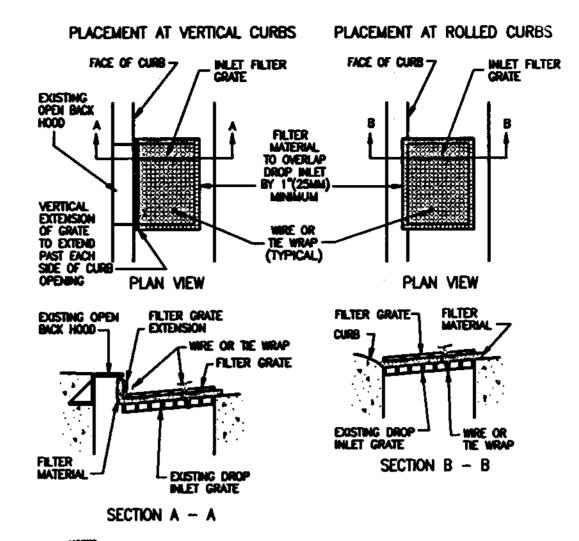
4. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE HALF THE HEIGHT OF THE FILTER ROLL.

2. SUPPORT POSTS SHALL BE A MINIMUM 24" LONG 1" X 1" WOOD POSTS DRIVEN A MINIMUM OF 6 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART.

3. FILTER ROLL SHALL BE IMBEDDED A MINIMUM OF 3 INCHES INTO EXISTING GROUND

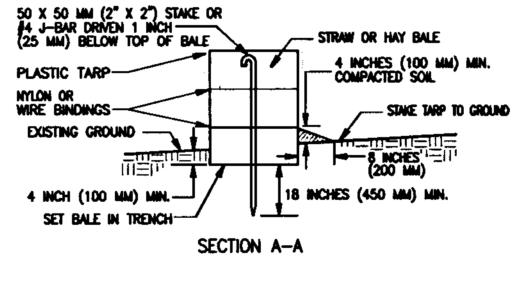
① WADDLE DETAIL

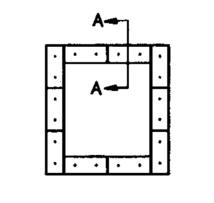
1" X 1" WOOD POST OR STEEL POST —



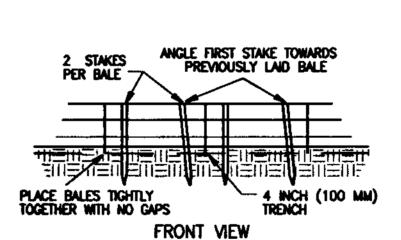
- (0.8 HECTARES).
- 2. THE FILTER PAD SHALL BE 1 INCH (25 MM) THICK CLEANABLE POLYESTER FIBER AND ACRYLIC LATEX RESIN OR APPROVED EQUAL, FILTER PAD SHALL OVERLAP DROP INLET ON ALL SIDES BY A MIN. OF 1" (25 MM).
- 3, THE FILTER GRATE SHALL BE MADE OF EXPANDED METAL OR REBAR AND BE OF SUFFICIENT STRENGTH TO PREVENT BENDING WHEN DRIVEN OVER, GRATE MATERIAL SHALL NOT EXCEED 0.5 INCH (13 MM) THICK. THE GRATE SHALL HAVE A MINIMUM BOX OPEN AREA. GRATES USED AT VERTICAL CURBS SHALL HAVE A VERTICAL EXTENSION TO COVER THE CURB OPENING. THE FILTER GRATE SHALL BE THE SAME SIZE AS THE INLET GRATE.
- 4. THE FILTER PAD AND GRATE SHALL BE SECURELY ATTACHED TO THE DROP INLET BY WARE OR TIE-WRAPS.
- 5. INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL REPAIRS AND SEDIMENT AND DEBRIS REMOVAL SHALL BE MADE AS NECESSARY.
- 6. INLET FILTERS SHALL BE "CONSTRUCTION" STORM DRAIN FILTERS BY POLLUTION

3 CURB INLET DETAIL





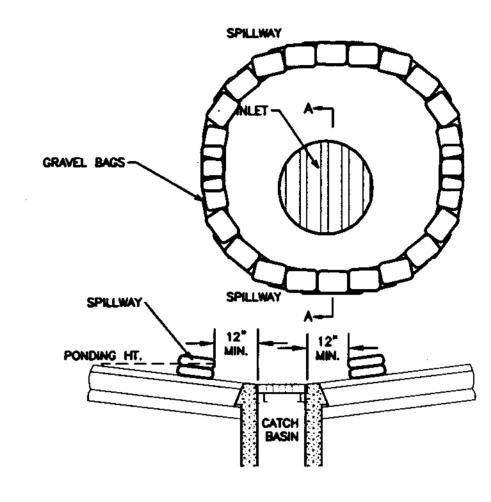
STRAW BALE ALIGNMENT



- 2. BALES SHALL BE ANCHORED BY TWO 2" X 2" (50 X 50 MM) STAKES OR \$4 J-BAR DRIVEN THROUGH THE BALE AND INTO THE GROUND A MINIMUM DEPTH OF 18 INCHES (450 MM). STAKES OR J-BARS SHALL BE DRIVEN FLUSH WITH THE TOP OF THE BALE. THE FIRST STAKE OR J-BAR IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY TOGETHER.
- 3, AFTER BALES ARE STAKED IN PLACE, EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE SIDE TO A MINIMUM HEIGHT OF 4 INCHES (100 MM).
- 4. CONTRACTOR MAY SUBSTITUE HAY BALE WITH AN EARTHEN DIKE AFTER RECEIVING APPROVAL FORM A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROLCONTROL

5. CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH WASHOUT. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 8 INCHES (150 MM). BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

⑤ CONCRETE WASHOUT

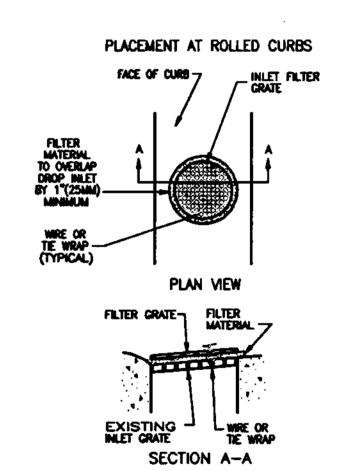


SECTION A-A

- 1, GRAVEL BAGS SHALL BE WOVEN GEOTEXTILE FABRIC. 2. CONSTRUCT ON GENTLY SLOPING STREET WHERE WATER CAN POND AND ALLOW
- SEDIMENT TO SEPARATE OUT OF SUSPENSION.

 3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS SPILLWAY.
 SPILLWAY HEIGHT SHALL BE SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVER STORM EVENT. 4, PLACE TWO LAYERS OF GRAVEL BAGS. OVER LAP BAGS AND PACK THEM TIGHTLY
- TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 3/4" DRAIN ROCK.
 5. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
- 6. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD. 7. GRAVEL BAG INLET PROTECTION ON ROADS OPEN TO THE PUBLIC WILL REQUIRE DELINEATION DEVICES TO ALERT MOTORISTS. BICYCLISTS AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE SUBJECT TO THE ENGINEERS APPROVAL.

6 INLET DETAIL



- NOTES

 1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 2 ACRES
- 2. THE FILTER PAD SHALL BE 1 INCH (25 MM) THICK CLEANABLE POLYESTER FIBER AND ACRYLIC LATEX RESIN OR APPROVED EQUAL. FILTER PAD SHALL OVERLAP DROP INLET ON ALL SIDES BY A MIN. OF 1" (25 MM).
- 3. THE FILTER GRATE SHALL BE MADE OF EXPANDED METAL OR REBAR AND BE OF SUFFICIENT STRENGTH TO PREVENT BENDING WHEN DRIVEN OVER. GRATE MATERIAL SHALL NOT EXCEED 0.5 INCH (13 MM) THICK, THE GRATE SHALL HAVE A MINIMUM BOX OPEN AREA. GRATES USED AT VERTICAL CURBS SHALL HAVE A VERTICAL EXTENSION TO COVER THE CURB OPENING. THE FILTER GRATE SHALL BE THE SAME SIZE AS THE INLET GRATE.
- 4. THE FILTER PAD AND GRATE SHALL BE SECURELY ATTACHED TO THE DROP INLET BY WIRE OR TIE-WRAPS.
- 5. INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL.
 REPAIRS AND SEDIMENT AND DEBRIS REMOVAL SHALL BE MADE AS NECESSARY.
- 6. INLET FILTERS SHALL BE "CONSTRUCTION" STORM DRAIN FILTERS BY POLLUTION

1 INLET DETAIL

3A of 17 Project File No. 04-138

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TRACT UNIT 3

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Design

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Scale

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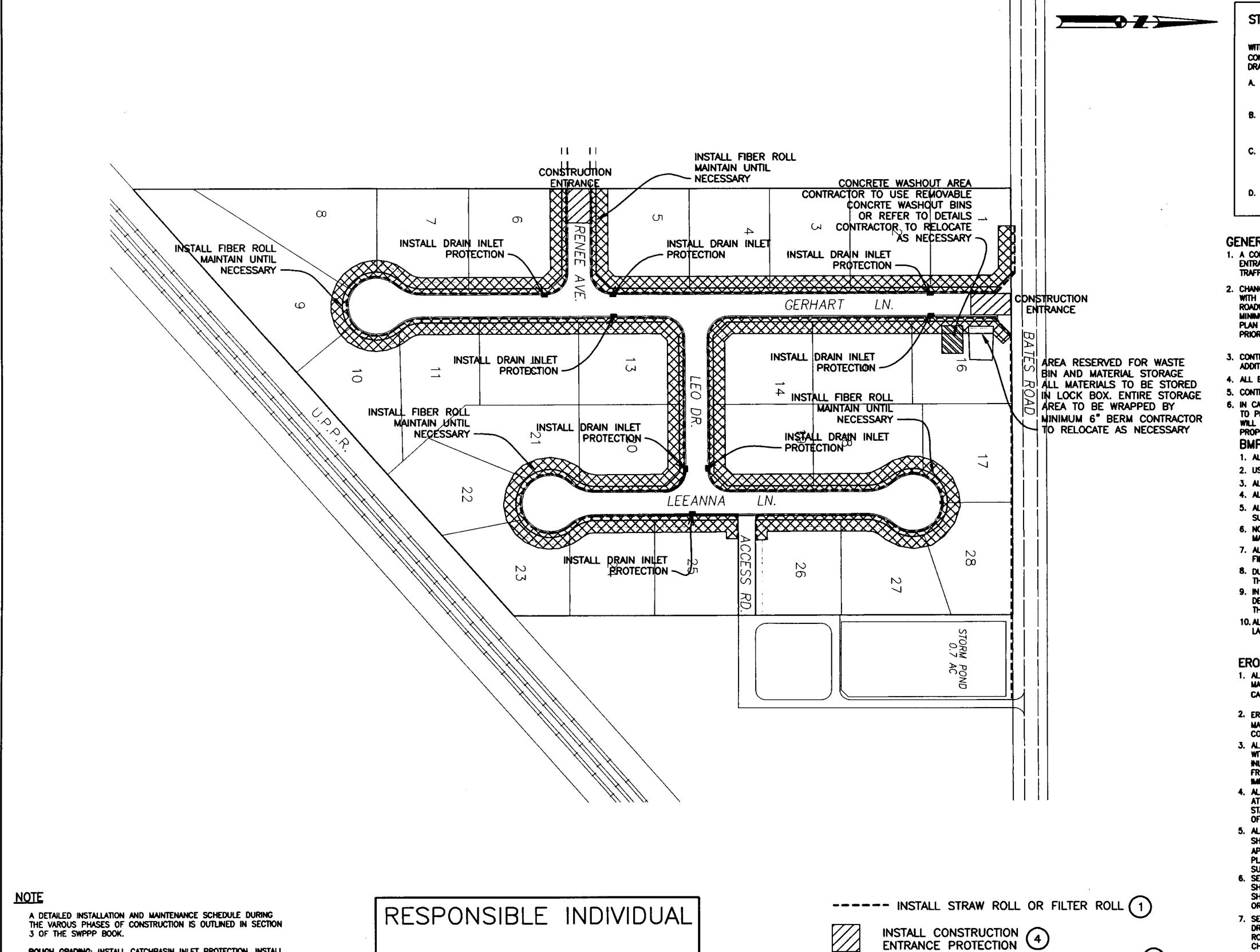
04/01/05

Original Drawing Scale

Sheet Number

1/2" 1"

S



STORM WATER POLLUTION PREVENTION PLAN

WITH THE EXCEPTION OF PROPERLY DESILTED WATER FROM SITE DEWATERING, THE CONTRACTOR SHALL NOT DISCHARGE ANY MATERIALS AND/OR LIQUIDS TO THE STORM DRAINAGE SYSTEM, ACTIVITIES OF PARTICULAR CONCERN ARE:

- A. CONTRACTOR SHALL DESIGNATE A CONCRETE TRUCK CLEAN-OUT AREA. COUNTY INSPECTOR APPROVED BEST MANAGEMENT PRACTICES SHALL AT ALL TIMES BE FULLY IMPLEMENTED AT AND AROUND THE CLEAN-OUT AREA.
- B. TACK COAT AND PRIME COAT ASPHALTS SHALL BE CAREFULLY SPRAYED AND ANY EXCESS MATERIAL SPILLED SHALL BE CLEANED UP IMMEDIATELY BY PROPER METHODS.
- C. ALL EQUIPMENT REFUELING IN THE PROJECT AREA SHALL BE CAREFULLY DONE TO AVOID SPILLAGE. ANY SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. ALL FUELING VEHICLES SHALL BE EQUIPPED WITH SPILL CLEANUP MATERIALS AND EQUIPMENT.
- D. CONTRACTOR SHALL CONTROL AND PROPERLY DISPOSE OF ALL LIQUIDS DURING SAWCUTTING ACTIVITIES

- 1. A CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS, ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE CONSTRUCTION ENTRANCE.
- 2. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN TO MEET FIELD CONDITIONS SHALL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE ENGINEER. DURING THE RAINY SEASON, PUBLIC ROADWAY SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT LADEN RUNOFF ENTERS THE STORM DRAINAGE SYSTEM AND PUBLIC ROADWAY. THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING, PLANS SHALL BE RESUBMITTED FOR APPROVAL PRIOR TO SEPTEMBER 1ST OF EACH SUBSEQUENT YEAR UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED.
- 3, CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND, IN ADDITION, AFTER EACH STORM.
- 4. ALL EROSION CONTROL BIMP'S SHALL BE IN PLACE PRIOR TO ANY STORM EVENTS
- 5. CONTRACTOR TO USE A WATER TRUCK DURING GRADING TO MINIMIZE WIND EROSION AND REDUCE DUST
- 6. IN CASE DEWATERING IS NECESSARY, THE CONTRACTOR SHALL ENGAGE AN EROSION CONTROL CONTRACTOR TO PROPERLY DISPOSE OF THE WATER. DETENTION PONDS MAY BE REQUIRED FOR DEWATERING AND THEY WILL BE DESIGNED IF THE NEED ARISES. ALTERNATIVE EFFECTIVE METHODS SHALL BE IMPLEMENTED IF THE PROPOSED METHOD FAILS TO THE SATISFACTION OF THE INSPECTOR. BMP NOTES:
- 1. ALL ON-SITE MATERIALS WILL BE STORED IN LOCK BOX
- 2. USE WATERING TRUCK FOR DUST CONTROL
- 3. ALL PLANTER AREAS TO RECEIVE STRAW AND TACKIFIER AFTER PAVING ACTIVITIES ARE COMPLETE
- 4. ALL DEBRIS AND SOLID WASTE TO BE STOCKPILED IN A 40 YARD DUMPSTER
- 5. ALL SPOIL PILES TO BE COVERED COMPLETELY WITH PLASTIC SHEETING AND SPOIL AREAS TO BE SURROUNDED WITH STRAW/FILTER ROLLS.
- 6, NO VEHICLES OR MACHINERY TO BE STORED, FUELED OR WASHED ON PROJECT SITE. ALL VEHICLE AND MACHINERY MAINTENANCE TO BE PERFORMED OFF-SITE.
- 7. ALL WATER PUMPED FROM TRENCHES OR SEDIMENT TRAP MUST PASS THROUGH A GRAVEL BAG FOR FILTRATION BEFORE IT IS DISCHARGED ON PROPERTY.
- 8. DURING ROUGH GRADING CONTRACTOR TO INSTALL HEARTH DIKE AND STRAW/FILTER ROLLS AT PERIMETER OF THE PROPERTY TO MANTAIN RUN-OFF ON SITE
- 9. IN CASE COLLOIDAL SUSPENSION NEEDS TO BE REMOVED PRIOR TO DISCHARGE, THE CONTRACTOR WILL DESIGN AND CONSTRUCT TEMPORARY HOLDING BASINS. THE DESIGN OF THE BASIN WILL BE ADDRESSED IF
- 10. ALL LANDSCAPED AREAS ARE GRADED TO DRAIN IN THE DIRECTION OF THE DRAIN INLET. REFER TO LANDSCAPING AND GRADING PLAN FOR DRAINAGE PATTERNS.

EROSION CONTROL NOTES:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THIS PLANS AND SPECIFICATIONS AND THE CALTRANS STORM WATER QUALITY HANBOOKS, CURRENT EDITION (MARCH 2003).
- 2. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 15 THROUGH APRIL 30). SEDIMENT CONTROL BMP3 SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
- 3. ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREAS AND WITHIN THE WORK AREAS SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND. INLET FILTER BAGS SHALL BE REMOVED FROM THE DRAINAGE INLETS UPON ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.
- 4. ALL STABILIZED CONSTRUCTION ACCESS LOCATIONS SHALL BE CONSTRUCTED PER ATTACHED DETAIL WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES PAVED AREAS. THE STABILIZED ACCESS SHALL BE MAINTAINED ON A YEAR ROUND BASIS UNTIL COMPLETION OF CONSTRUCTION
- 5. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 15 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD SUCH AS EROSION CONTROL BLANKETS OR STRAW MULCH
- 6. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMPs SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS
- 7. SEDIMENT CONTROL BMPs SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMPs SHALL BE MAINTAINED YEAR ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
- 8. THE FOLLOWING AREAS ARE TO RECEIVE HYDROSEEDING OR OTHER EROSION CONTROL: LOT FRONT YARD BEHIND CURB - THE FIRST 18 FEET OR TOP OF SLOPE (WHICHEVER
- SIDEYARDS BEHIND THE CURB THE FIRST 7.5 FEET OR TOP OF SLOPE (WHICHEVER IS GREATER) SLOPES - ALL SLOPES GRATER THAT 10:1
- 9. EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT SHALL BE IN SUBSTANTIAL COMPLIANCE AT ALL TIMES WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH THE STATE OF CALIFORNIA GENERAL CONSTRUCTION PERMIT. THIS PERMIT REQUIRES THAT THE SWPPP BE KEPT UP TO DATE TO REFLECT THE CHANGING SITE CONDITIONS AND THE SWPPP IS TO BE AVAILABLE ON SITE AT ALL TIMES FOR REVIEW BY STATE AND LOCAL INSPECTORS.

ROUGH GRADING: INSTALL CATCHBASIN INLET PROTECTION, INSTALL STRAW OR FILTER ROLLS AT BACK OF CURB AND AT EDGE OF GRADING. THE EXISTING GROUND DOES NOT HAVE A DEFINED DIRECTION OF FLOW. A CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.

PAVING: INSTALL STRAW OR FILTER ROLLS AT NEW BACK OF WALK. MANTAIN PROTECTION AT CATCHBASIN, INSTALL ROCK BAGS IN GUTTER PAN. HYDROSEED OR STABILIZE WITH OTHER METHODS DISTURBED SOIL PRIOR TO WET SEASON. ALLOW FOR VEGETATION TO DEVELOP IF HYDROSEEDING.

CHAD KILTZ

WDID NO.

INSTALL CONCRETE WASHOUT AREA IN LOCATIONS APPROVED BY A CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL

INSTALL GRAVEL BAGS AND FILTER FABRICS 23
TO PROTECT ALL INLETS (TYP ALL INLETS) 67

CONTRACTOR TO STABILIZE DISTURBED SOIL PRIOR TO RAIN EVENT THROUGH SOIL BINDERS, STRAW MULCH AND/OR EROSION CONTROL BLANKETS CALTRANS STD. SS-3, SS-6, SS-7

ASSOCIATES

R TRACT UNIT 3 CONTROL PLANS FOR TA SEDIMENT (LAYOUT IMPROVEMENT F CARBONA EROSION AND S ERO

Design AMC

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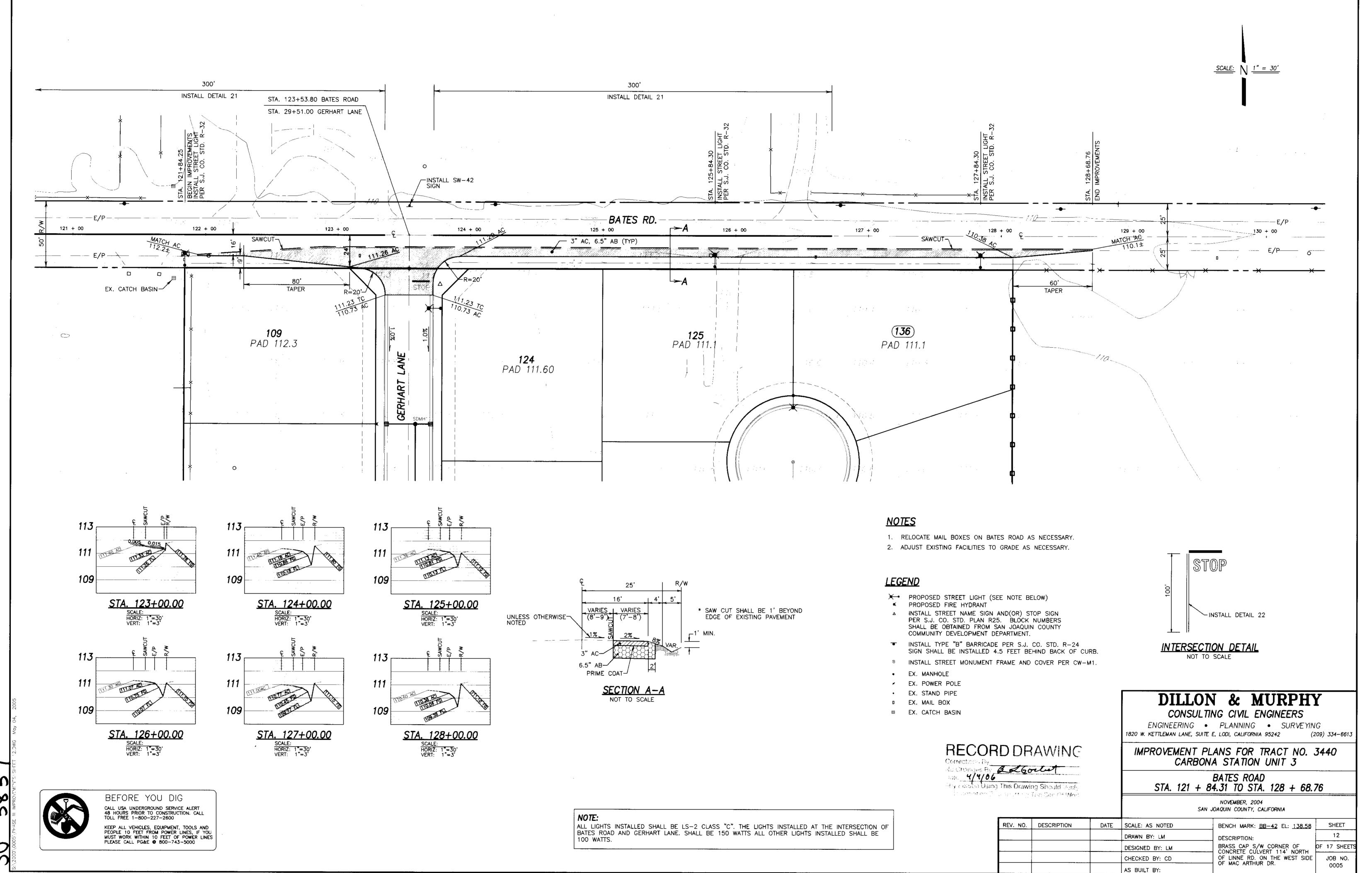
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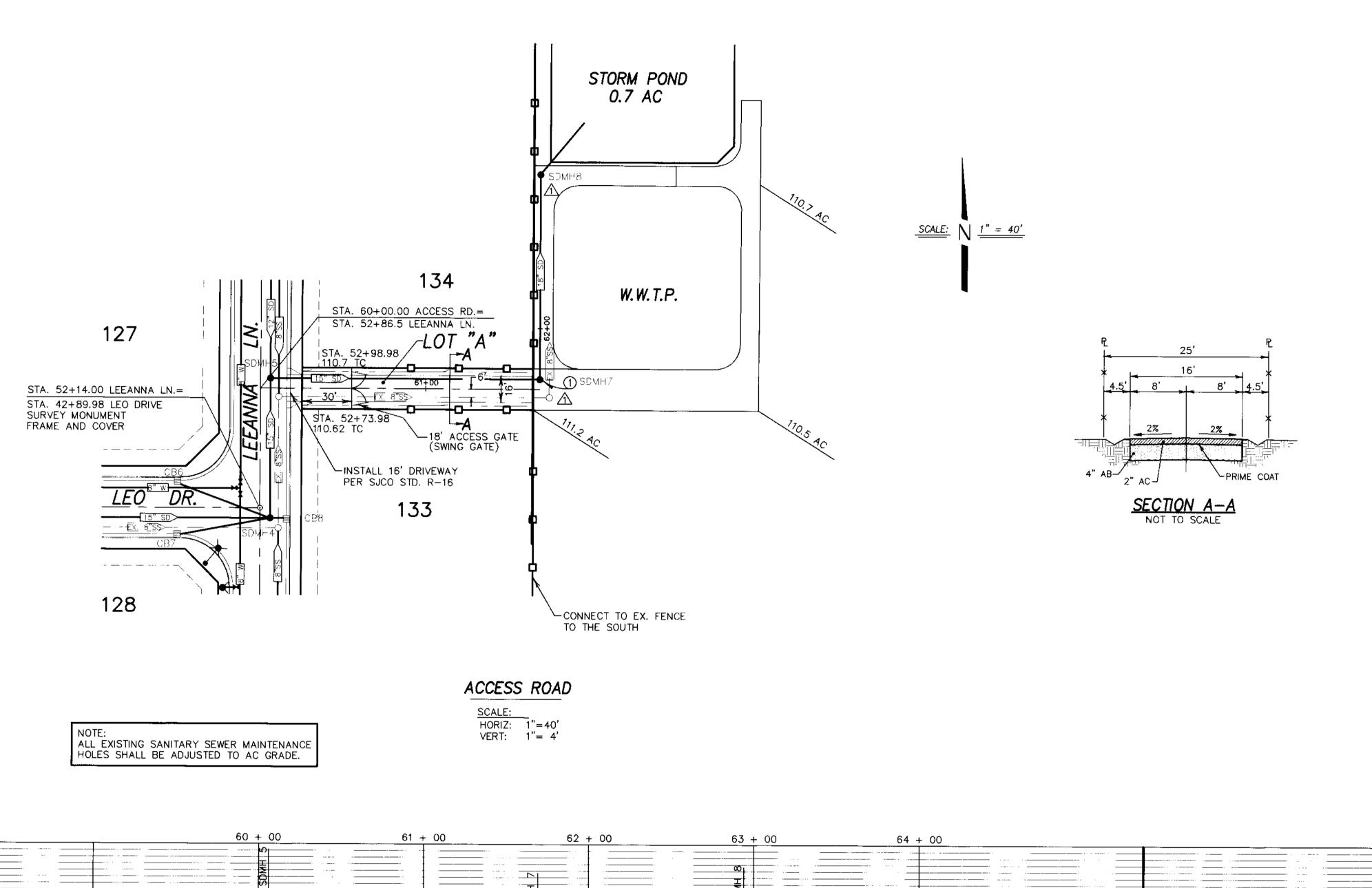
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Original Drawing Scale 0 ½" 1"

Sheet Number **5** of 17

Project File No. 04-138





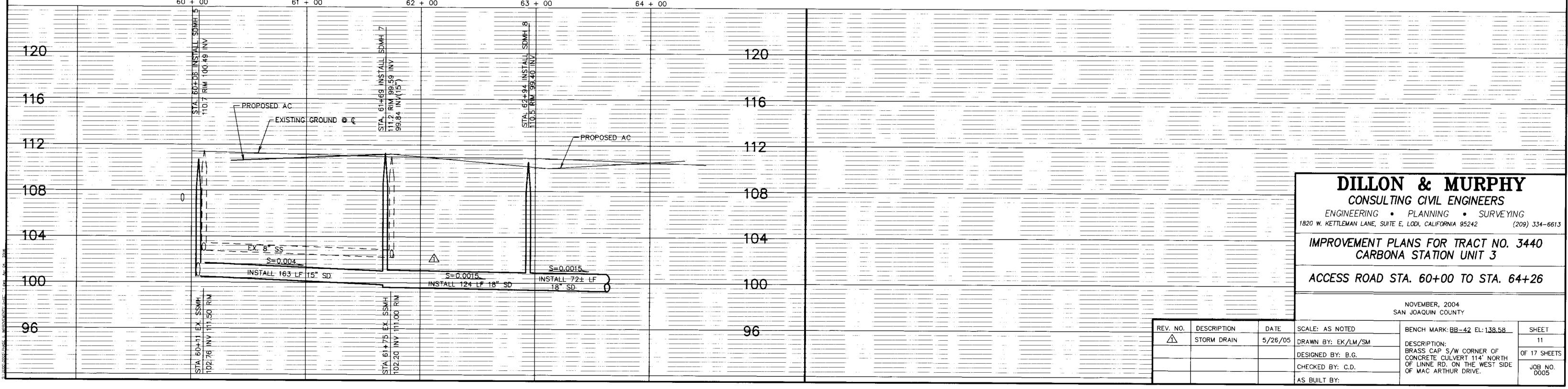
CONSTRUCTION NOTES

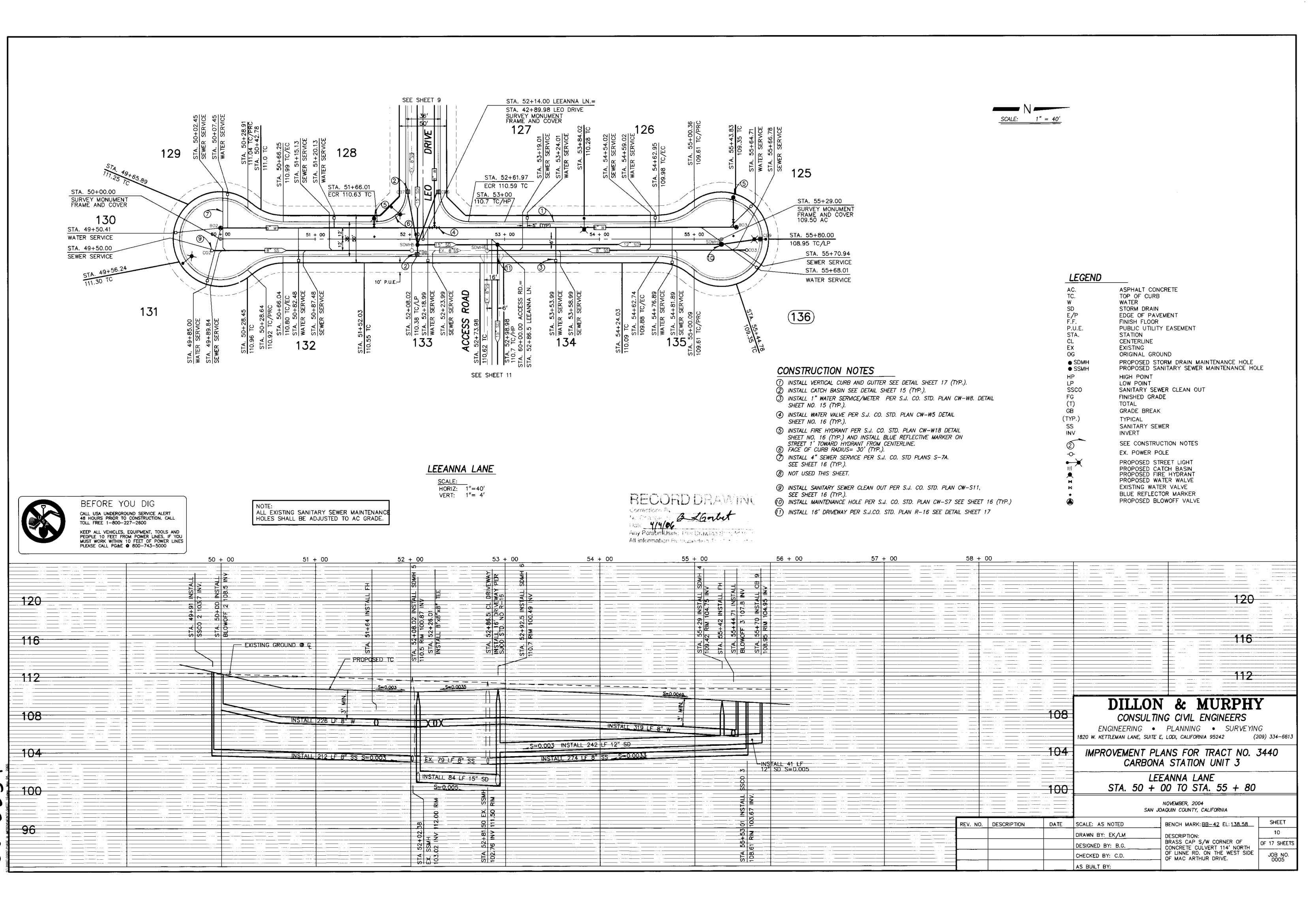
1) INSTALL MAINTENANCE HOLE PER S.J. CO. STD. PLAN CW-S7 SEE SHEET 16 (TYP.)

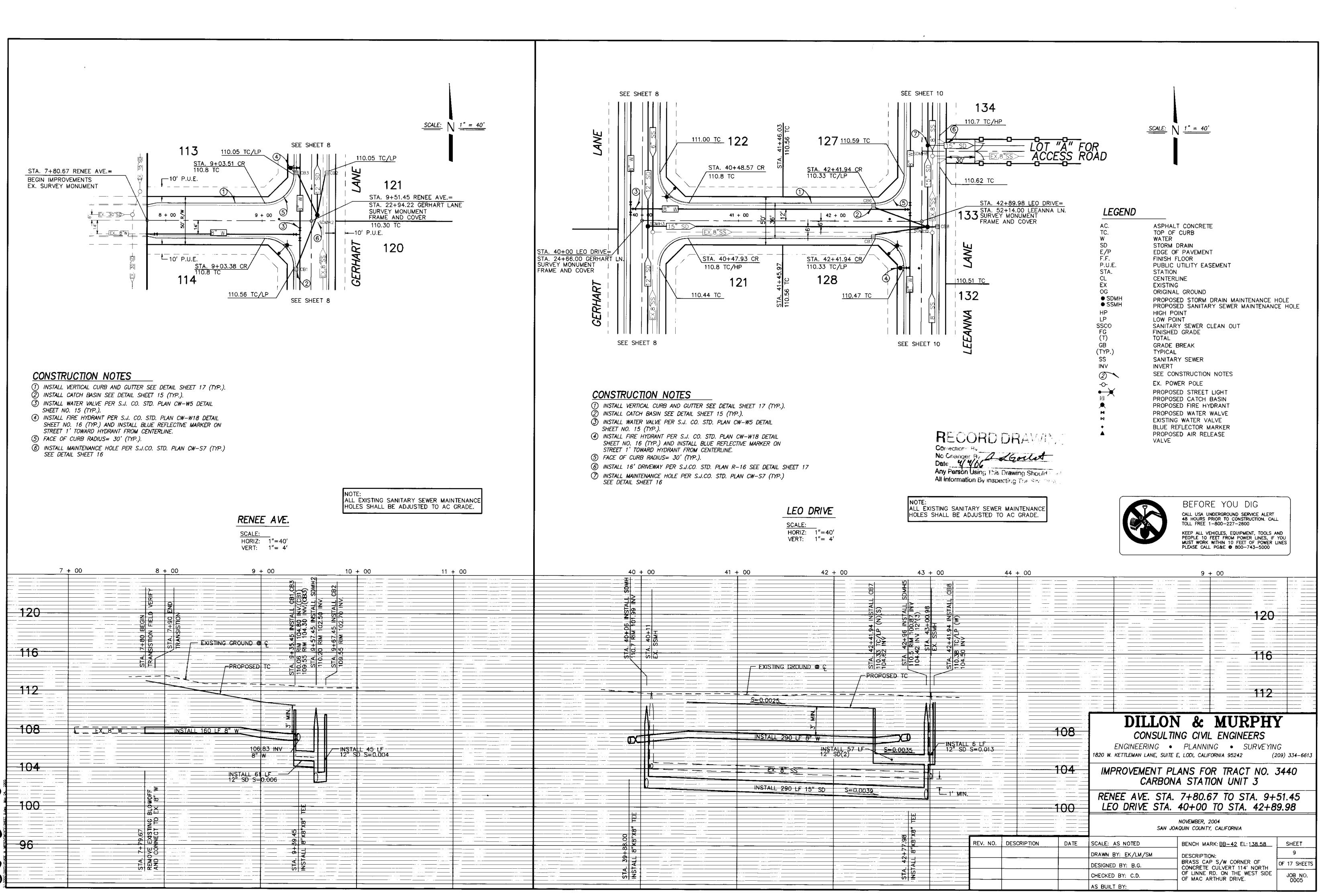
LEGEND

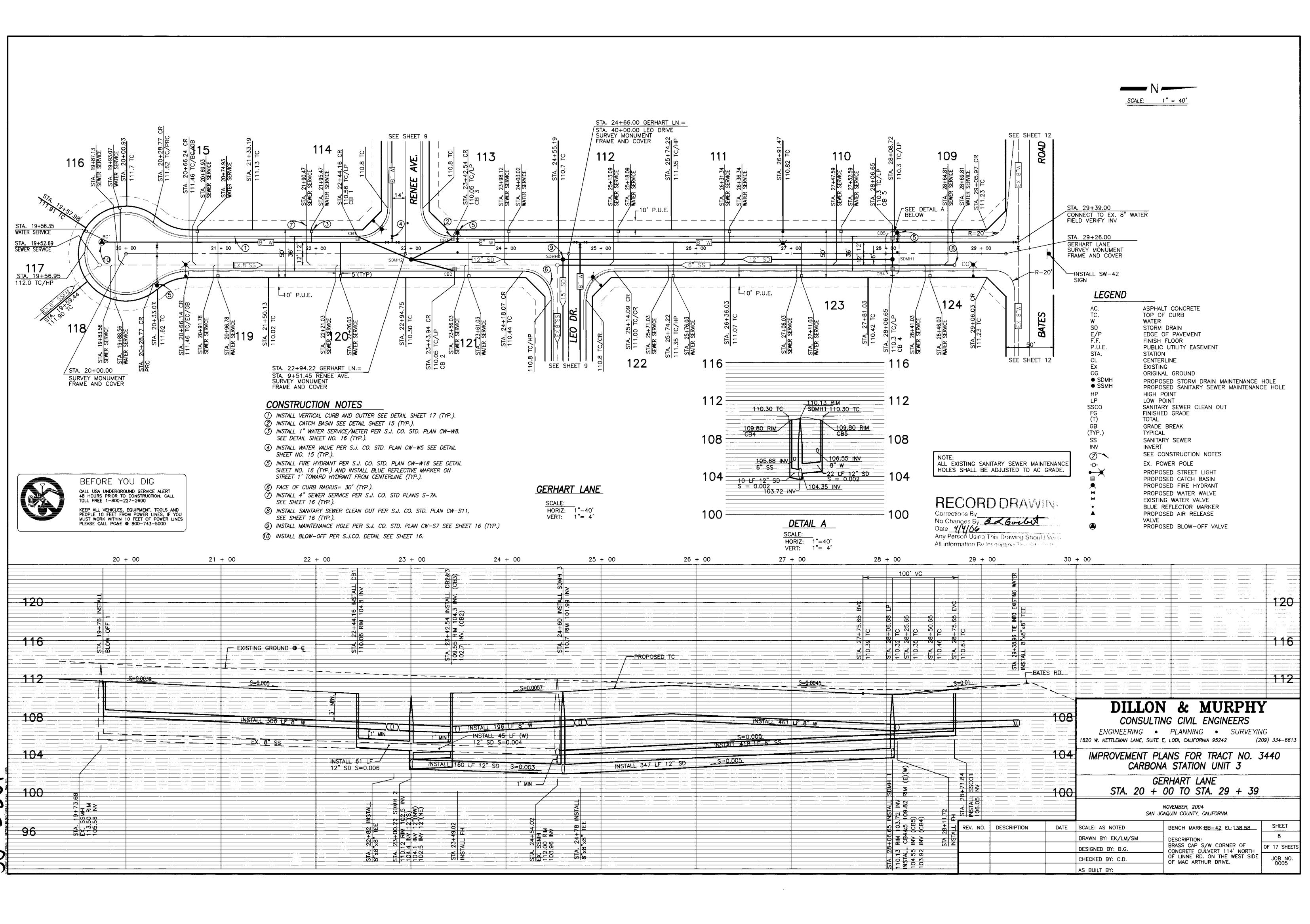
AC. TC. W SD E/P F.F.	ASPHALT CONCRETE TOP OF CURB WATER STORM DRAIN EDGE OF PAVEMENT FINISH FLOOR	FG (T) GB (TYP.) SS INV	FINISHED GRADE TOTAL GRADE BREAK TYPICAL SANITARY SEWER
P.U.E. STA. CL EX OG SDMH SSMH	PUBLIC UTILITY EASEMENT STATION CENTERLINE EXISTING ORIGINAL GROUND PROPOSED STORM DRAIN MAINTENANCE HOLE PROPOSED SANITARY SEWER MAINTENANCE HOLE		INVERT SEE CONSTRUCTION NOTES EX. POWER POLE PROPOSED STREET LIGHT PROPOSED CATCH BASIN PROPOSED FIRE HYDRANT
HP LP SSCO W.W.T.P.	HIGH POINT LOW POINT SANITARY SEWER MAINTENANCE HOLE HIGH POINT SANITARY SEWER CLEAN OUT WASTE WATER TREATMENT PLANT	M M ◆	PROPOSED WATER WALVE EXISTING WATER VALVE BLUE REFLECTOR MARKER PROPOSED AIR RELEASE VALVE

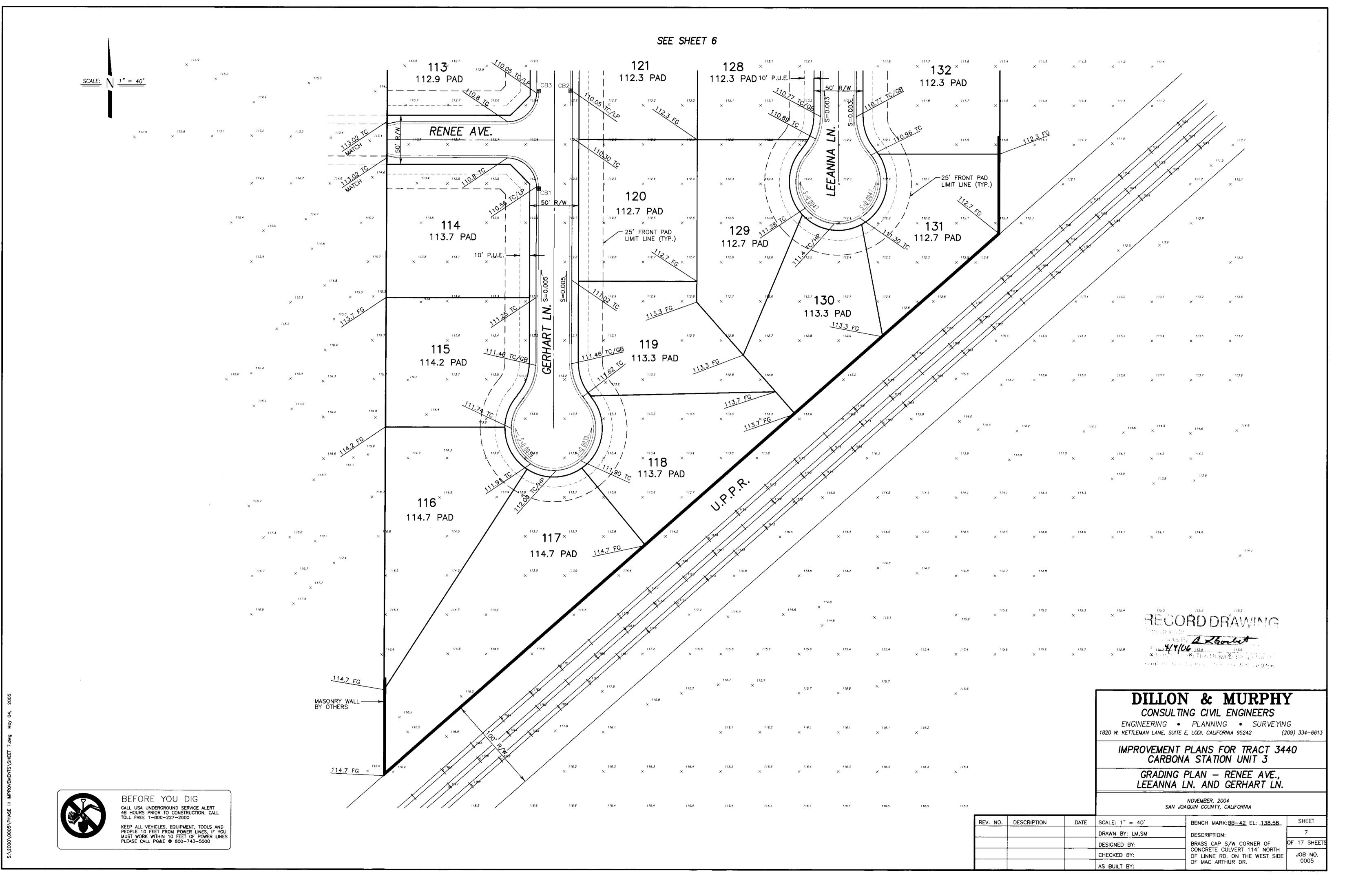




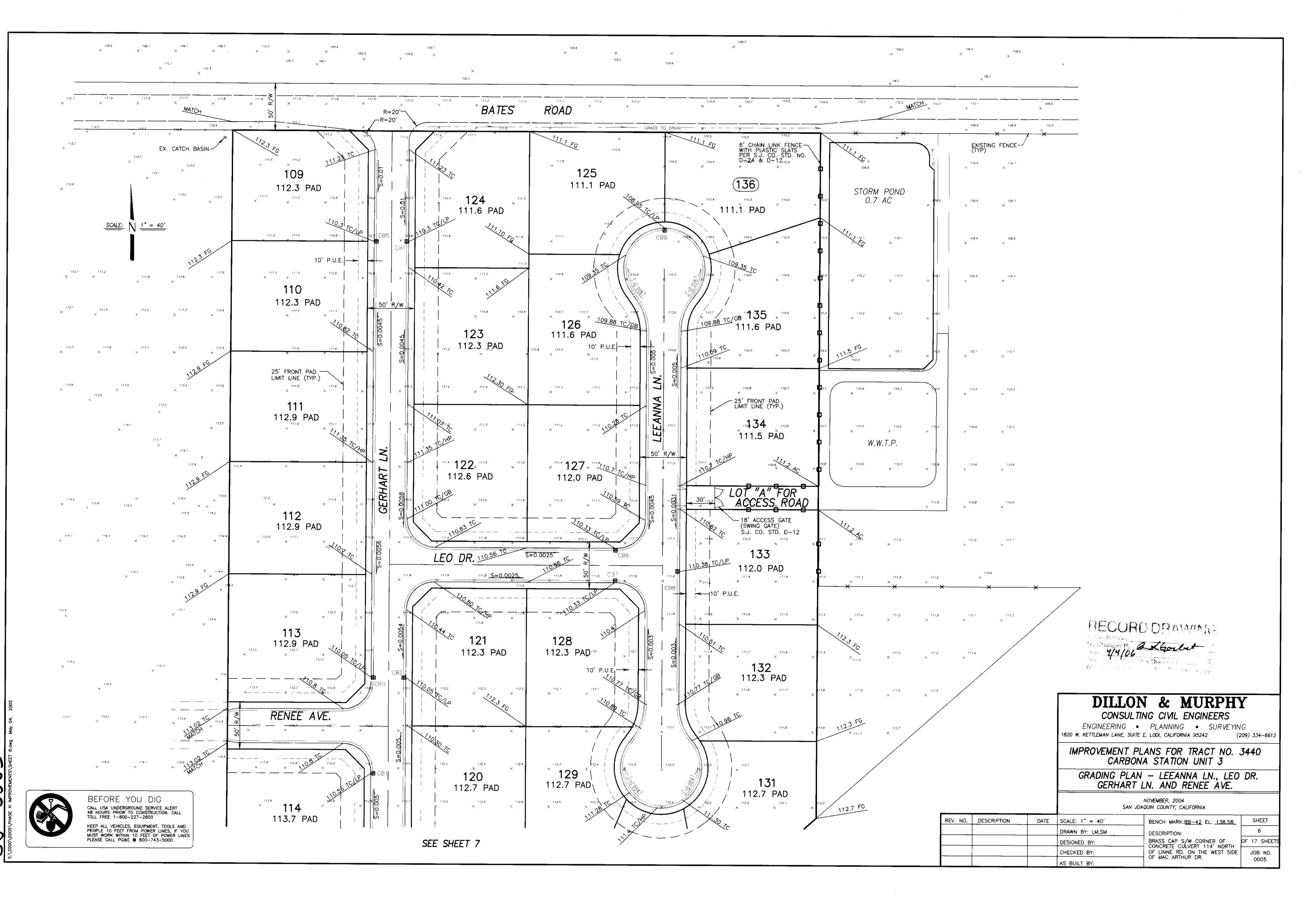








2985 00



RECORD DRAWING
Corrections By
No Changes By
Value
Value
Value
Any Person Using This Drawing Should verify
All information Policapecting The Site Of Market

SEWER LATERALS FOR LOTS 113-121, 133 WILL BE CONNECTIONS TO AN EXISTING SEWER MAIN. CONTACT THE SAN JOAQUIN COUNTY UTILITY MAINTENANCE DIVISION PRIOR TO THE TEMPORARY SHUT DOWN OF THE EXISTING SEWER LIFT STATION AND COORDINATE ACCORDINGLY.

DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

ENGINEERING • PLANNING • SURVEYING 1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242 (209) 334-6613

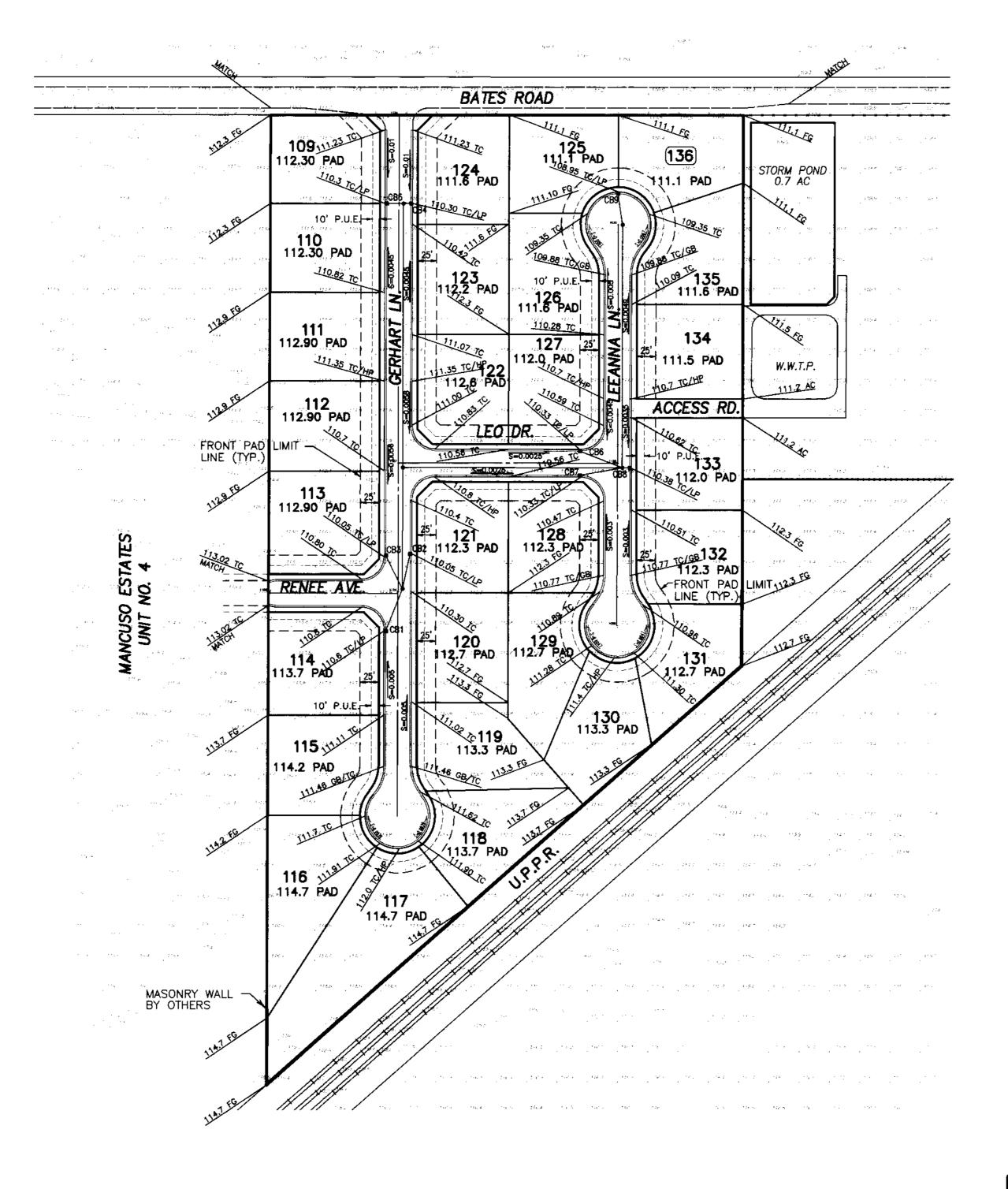
IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

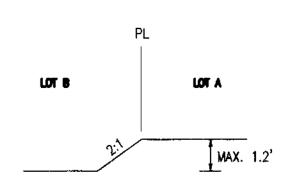
OVERALL UTILITY PLAN

NOVEMBER, 2004 SAN JOAQUIN COUNTY, CALIFORNIA

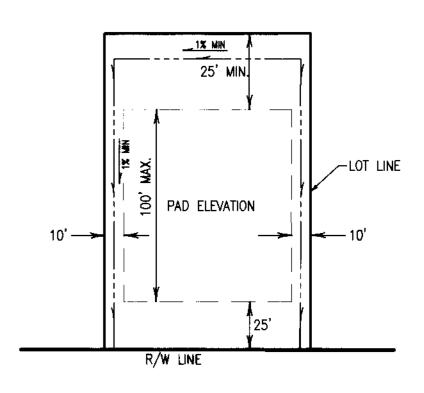
REV. NO. DESCRIPTION SHEET DATE | SCALE: 1" = 100' BENCH MARK: BB-42 EL: 138.58 DRAWN BY: LM DESCRIPTION: BRASS CAP S/W CORNER OF CONCRETE CULVERT 114' NORTH OF LINNE RD. ON THE WEST SIDE OF MAC ARTHUR DR. OF 17 SHEET DESIGNED BY: CHECKED BY: JOB NO. 0005 AS BUILT BY:

BEFORE YOU DIG CALL USA UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO CONSTRUCTION. CALL TOLL FREE 1-800-227-2600 KEEP ALL VEHICLES, EQUIPMENT, TOOLS AND PEOPLE 10 FEET FROM POWER LINES, IF YOU MUST WORK WITHIN 10 FEET OF POWER LINES PLEASE CALL PG&E • 800-743-5000





TYPICAL SECTION AT LOT TRANSITIONS



- 1. ALL GRADING SHALL COMPLY WITH 2001 CBC CHAPTER 18 AND APPENDIX
- 2. NO SLOPE SHALL BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT BY KLEINFELDER DATED MARCH 31, 2004 TO DETERMINE LOT GRADING, SITE PREPARATION AND FOUNDATION RECOMMENDATION.

RECORD DRAWING

Corrections By
No Changes By
Date 4/4/06
Any Person Using This Drawing Sho, in Verty All information By inspecting The Signature

DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

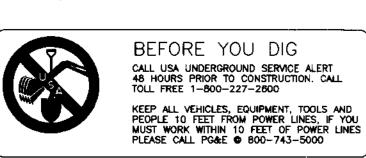
ENGINEERING • PLANNING • SURVEYING 1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242 (209) 334-6613

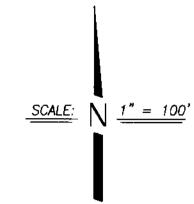
IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

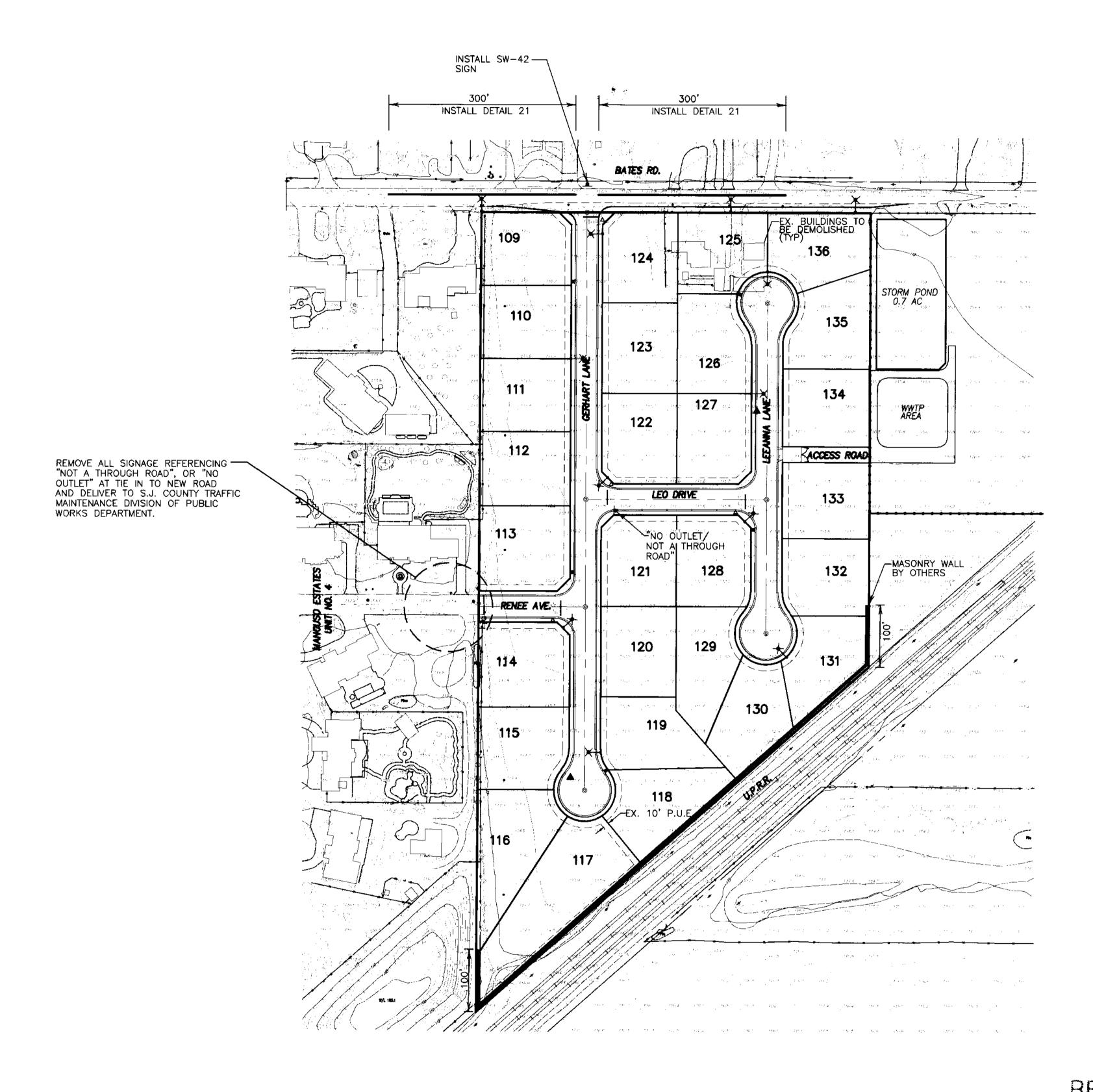
OVERALL GRADING PLAN

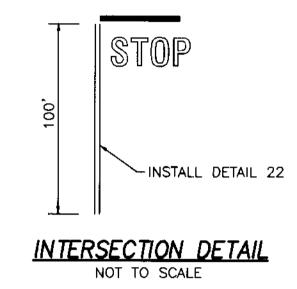
NOVEMBER, 2004 SAN JOAQUIN COUNTY

/. NO.	DESCRIPTION	DATE	SCALE: 1" = 100'	BENCH MARK:88-42 EL:138.58	SHEET
			DRAWN BY: LM, SM	DESCRIPTION:	4
			DESIGNED BY:	BRASS CAP S/W CORNER OF CONCRETE CULVERT 114' NORTH	OF 17 SHEETS
			CHECKED BY:	OF LINNE RD. ON THE WEST SIDE OF MAC ARTHUR DRIVE.	JOB NO.
			AS BUILT BY:	The state of the s	0005









LEGEND

- PROPOSED STREET LIGHT (SEE NOTE BELOW)
- ◆ PROPOSED FIRE HYDRANT
- △ INSTALL STREET NAME SIGN AND(OR) STOP SIGN PER S.J. CO. STD. PLAN R25. BLOCK NUMBERS SHALL BE OBTAINED FROM SAN JOAQUIN COUNTY COMMUNITY DEVELOPMENT DEPARTMENT.
- INSTALL STREET MONUMENT FRAME AND COVER PER CW-M1.
- ▲ R-VALUE TEST LOCATION (APPROXIMATE)
- EX. MANHOLE
- EX. POWER POLE
- EX. STAND PIPE

NOTE:

- 1. ALL LIGHTS INSTALLED SHALL BE LS-2 CLASS "C". THE LIGHTS INSTALLED AT THE INTERSECTION OF BATES ROAD AND GERHART LANE SHALL BE 150 WATTS. ALL OTHER LIGHTS INSTALLED SHALL BE
- BREAK STRIPING FOR NEW INTERSECTION ALONG BATES ROAD AND SHOW PROPER "NO PASS" SOLID YELLOW STRIPING FOR 300 FEET MIN. EACH SIDE OF NEW INTERSECTION.

RECORD DRAWING Corrections By
No Changes By
Date 4/4/06
Any Person Using This Drawing School Vent. All information by inspecting The Site Of Work

DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

ENGINEERING • PLANNING • SURVEYING 1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242

IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

TOPOGRAPHIC, STREET LIGHT, STREET SIGN STRIPING, MONUMENT, AND FIRE HYDRANT LOCATION MAP

NOVEMBER, 2004 SAN JOAQUIN COUNTY, CALIFORNIA

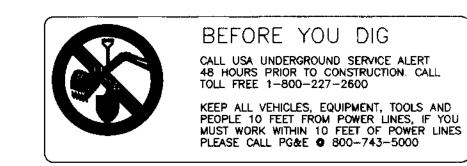
REV. NO.	DESCRIPTION	DATE	SCALE: AS NOTED	BENCH MARK: <u>BB-42</u> EL: <u>138.58</u>	SHEET
			DRAWN BY: LM/EK	DESCRIPTION:	3
			DESIGNED BY: EK	BRASS CAP S/W CORNER OF CONCRETE CULVERT 114' NORTH	OF 17 SHEETS
			CHECKED BY: CD	OF LINNE RD. ON THE WEST SIDE	JOB NO.
			AS BUILT BY:	OF MAC ARTHUR DR.	0005

BEFORE YOU DIG CALL USA UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO CONSTRUCTION. CALL TOLL FREE 1-800-227-2600 KEEP ALL VEHICLES, EQUIPMENT, TOOLS AND PEOPLE 10 FEET FROM POWER LINES, IF YOU MUST WORK WITHIN 10 FEET OF POWER LINES PLEASE CALL PG&E • 800-743-5000

- 1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE LATEST EDITIONS OF THE SPECIFICATIONS, STANDARDS AND ORDINANCES OF SAN JOAQUIN COUNTY AND SHALL BE PART OF THESE IMPROVEMENT PLANS.
- 2. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED. NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE. ANY DISCREPANCY SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF DILLON & MURPHY, 1820 W. KETTLEMAN LANE, SUITE E, LODI, CA, (209) 334-6613.
- CONTRACTORS SHALL BE RESPONSIBLE TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- 4. THE EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL DO NO EXCAVATION UNTIL ALL UTILITY AGENCIES HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES. PRIOR TO OPENING AN EXCAVATION, THE CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS, I.E., SEWER, WATER, STORM DRAINAGE, ELECTRICAL LINES, GAS LINES, CABLE TV LINES, ETC. WILL BE ENCOUNTERED AND, THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION. THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION.
- 5. SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF ANY OFF-SITE CONSTRUCTION.
- 6. DILLON & MURPHY SHALL PROVIDE ALL CONSTRUCTION STAKING. FIELD CHANGES MADE BY OTHERS SHALL BE DONE AT THEIR OWN RISK.
- 7. EACH CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION OF THE REMOVAL OR RELOCATION OF ANY AND ALL EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY. COST OF THIS COORDINATION IS TO BE INCLUDED IN THE PRICES BID FOR THE VARIOUS IMPROVEMENTS TO COMPLETE THE PROJECT.
- 8. SAN JOAQUIN COUNTY BRASS DISC STAMPED "BB-42" ON SOUTHWEST CORNER CONCRETE CULVERT 114 FEET NORTH OF LINNE ROAD ON THE WEST SIDE OF MAC ARTHUR ROAD. ELEVATION = 138.584
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY AND CONSTRUCTION STAKES. SURVEY AND CONSTRUCTION STAKES THAT ARE LOST OR DESTROYED DUE TO THE CONTRACTOR'S NEGLIGENCE WILL BE RESET BY DILLON & MURPHY AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE, EACH CONTRACTOR SHALL NOTIFY U.S.A. 48 HOURS PRIOR TO ANY EXCAVATION.
- 11. CONTRACTOR AND SUBCONTRACTOR SHALL COOPERATE WITH THEMSELVES AND UTILITY COMPANIES INSTALLING NEW STRUCTURES. UTILITIES AND SERVICES TO THE DEVELOPMENT.
- 12. ALL UNDERGROUND SERVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS.
- 13. GRADES SHOWN ON THE PLAN ARE INTENDED TO REFLECT A BALANCE OF EARTHWORK CUT AND FILL QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR PERFORMING AN INDEPENDENT BALANCE PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCY BETWEEN THE CONTRACTOR'S BALANCE AND THESE PLANS SHALL BE RESOLVED PRIOR TO COMMENCEMENT OF WORK. FAILURE BY THE CONTRACTOR TO RECTIFY ANY DIFFERENCES SHALL SHIFT THE RESPONSIBILITY (AND COSTS FOR ADDTIONAL EARTHWORK) ENTIRELY TO HIM.
- 14. ANY FILL PLACE SHALL BE PROPERLY COMPACTED AS REQUIRED BY THE PLANS, THESE NOTES. AND THE SOILS REPORT.
 - A. EARTH FILL TO ESTABLISH FINISHED GRADE OUTSIDE THE PAVED AREAS AND BUILDINGS AREAS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 % ON THE LOTS.
 - B. FILL SHALL BE NON-EXPANSIVE MATERIAL AND SHALL BE FREE OF VEGETATION OR DELETERIOUS MATTER. FILL SHALL BE COMPACTED TO A POINT SIX INCHES BELOW SUBGRADE.
- CONTRACTOR'S BID SHALL INCLUDE THE COST OF ANY NECESSARY SOILS COMPACTION AND MATERIALS TESTING.
- 16. CONCRETE
 - A. GENERAL ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI AND UBC CODES.
 - B. CONCRETE STRENGTH UNLESS OTHERWISE NOTED ON THE PLANS, CONCRETE SHALL OBTAIN A MINIMUM OF DESIGN STRENGTH OF 2500 PSI.
 - 1. CEMENT 5.5 SACKS MINIMUM PER YARD.
 - 2. WATER MAXIMUM 7 GALS, PER SACK OF CEMENT.
 - AGGREGATE MAXIMUM SIZE 3/4".
 - 4. SLURRY 5" MAXIMUM.
 - 5. CURING KEEP WET MINIMUM OF 7 DAYS. OR APPLY MEMBRANE CURING COMPOUND APPROVED BY THE ENGINEER.
 - 6. VIBRATION ALL CONCRETE SHALL BE VIBRATED INTO PLACE WITH A MECHANICAL VIBRATOR.
 - 7. FORM REMOVAL SIDE FORMS OF FOUNDATIONS AND SLABS, MINIMUM OF 2 DAYS,
 - 8. TESTING IN ACCORDANCE WITH ACI-301-72, CHAPTER 16.
 - C. REINFORCING MATERIALS:
 - 1. DEFORMED BARS ASTM A615, GR. 60.
 - 2. ELECTRIC WELDED WIRE FABRIC (WWF) ASTM A-185.

- 17. ASPHALT CONCRETE: ASPHALT CONCRETE SHALL BE TYPE B AND SHALL CONFORM TO THE PROVISIONS OF SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS. THE PENETRATION RANGE OF PAVING ASPHALT SHALL BE AR-4000: AGGREGATE SHALL BE ONE-HALF (1/2") INCH MAXIMUM MEDIUM GRADING FOR SURFACING.
 - PRIME COAT SHALL BE A LIQUID ASPHALT GRADE SC-250 OR SC-70 AND SHALL BE APPLIED TO THE ENTIRE PAVED AREA AND THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ASPHALT CONCRETE. PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 39-4 OF THE CALTRANS STANDARD SPECIFICATIONS.
 - AGGREGATE BASE: AGGREGATE BASE SHALL BE CLASS TWO CONFORMING TO THE REQUIREMENTS OF SECTION 26-1.026A OF THE CALTRANS STANDARD SPECIFICATIONS. SPREADING AND COMPACTING AGGREGATE BASE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 26-1.04 OF THE CALTRANS STANDARDS SPECIFICATION.
- 18. THE GRADING AND PAVING CONTRACTOR SHALL ADJUST TO FINISHED GRADE THE TOPS OF ALL PROPOSED AND EXISTING MANHOLES, VALVE BOXES AND WATER METER BOXES, ETC. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR STREET WORK
- 19. THE DOMESTIC WATER LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, AND SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS ADOPTED IMPROVEMENT STANDARDS. AND UNIFORM BUILDING CODE. PIPE MATERIAL SHALL BE THAT ALLOWED BY THE PLUMBING CODE AND SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS IMPROVEMENT STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE TYPE AND SPECIFICATIONS OF ALL MATERIAL, FITTINGS, ETC. CONFORM TO SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE AND BACTERIA TESTING OF WATER LINES AS REQUIRED BY SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS. BACTERIA TESTS SHALL BE TAKEN BY A CERTIFIED LABORATORY TECHNICIAN.
 - REFER TO SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS FOR ALL WATER LINE TESTING REQUIREMENTS.
- 20. THE STORM DRAIN PIPELINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, AND SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS ADOPTED IMPROVEMENT STANDARDS. PIPE MATERIAL SHALL BE THAT ALLOWED BY THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS IMPROVEMENT STANDARDS OR AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE TYPE AND SPECIFICATIONS OF ALL MATERIALS, FITTINGS, ETC. CONFORM TO SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS. MATERIAL SELECTION SHALL BE SUBMITTED TO THE CIVIL ENGINEER FOR REVIEW.
- 21. GRADING AND PAVING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ELECTRICAL, LANDSCAPE, IRRIGATION, AND UNDERGROUND UTILITY CONDUITS WITH APPROPRIATE SUB-CONTRACTORS AND UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- 22. THE OFFICE OF DILLON & MURPHY, 1820 W. KETTLEMAN LANE, SUITE E, LODI, CA, SHALL BE NOTIFIED 48 HOURS (MINIMUM) IN ADVANCE OF ANY REQUIRED CONSTRUCTION SURVEYING.
- 23. CONTRACTOR'S AND SUB-CONTRACTORS BIDDING ON THIS PROPOSED PROJECT SHALL CAREFULLY EXAMINE THESE PLANS AND CAREFULLY REVIEW THE CONSTRUCTION SITE TO DETERMINE SPECIFICALLY WHAT IS REQUIRED TO BE ACCOMPLISHED IN HIS PORTION OF THE TOTAL WORK. IF ANY DOUBT EXISTS TO THE INTENT OF THE PLANS. SPECIFIC DETAILS. CONSTRUCTION NOTES. OR IF THE CONTRACTOR AND SUB-CONTRACTOR REQUIRES ADDITIONAL INFORMATION, IT MUST BE CLARIFIED WITH DILLON & MURPHY.
- 24. CONTRACTOR AND ANY SUB-CONTRACTOR USING PLANS WHICH ARE UNAPPROVED BY SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS SHALL DO SO AT THEIR OWN RISKS. DILLON & MURPHY WILL NOT BE HELD RESPONSIBLE FOR USAGE OF SUCH PLANS FOR THE CONSTRUCTION OF THIS PROJECT.
- 25. DILLON & MURPHY SHALL NOT BE RESPONSIBLE FOR ANY SURVEYING OR FIELD CHANGES MADE BY ANY OTHER SURVEYING OR ENGINEERING FIRMS. ANY ERRORS OR OMISSIONS DETECTED SHALL BE MITIGATED BY DILLON & MURPHY.
- 26. SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS WILL PERFORM FIELD INSPECTIONS FOR THIS PROJECT: ANY IMPROVEMENTS CONSTRUCTED TO THE SPECIFICATIONS AND WHICH IT IS INTENDED THAT SAN JOAQUIN COUNTY WILL ASSUME MAINTENANCE RESPONSIBILITY, MUST BE INSPECTED DURING CONSTRUCTION BY AN AUTHORIZED AGENT OF SAN JOAQUIN COUNTY.
- 27. CHANGES ON PLANS AND SPECIFICATIONS: ANY CHANGES TO THE APPROVED IMPROVEMENT PLANS AND SPECIFICATIONS MUST BE PREPARED AND APPROVED BY DILLON & MURPHY AND SHALL BE SUBMITTED TO SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO IMPLEMENTATION.
- 28. THIS SITE CONTAINS 14.42 ACRES GROSS.
- 29. ALL TRAFFIC SIGNS AND MARKINGS SHALL CONFORM TO SAN JOAQUIN COUNTY STANDARDS AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE MUTCD CALIFORNIA SUPPLEMENT, AND TO THE CALTRANS TRAFFIC MANUAL ALL AS SHOWN ON THE PLANS.
- 30. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSON AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND: INDEMNIFY AND HOLD HARMLESS, THE COUNTY OF SAN JOAQUIN, ITS ELECTED OFFICIALS, OFFICERS, EMPLOYEES AND DILLON & MURPHY FROM ANY AND ALL CLAIMS, COSTS OR LITIGATION, DAMAGES, AND ATTORNEY'S FEES, FOR PERSONAL INJURY OR PROPERTY DAMAGE OF WHATEVER NATURE WHICH ARE CLAIMED TO HAVE OCCURRED DURING THE TERM OF THIS PROJECT.
- 31. ALL UTILITIES SHALL BE UNDERGROUND, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.
- 32. THIS PROJECT SHALL IMPLEMENT THE AIR POLLUTION CONTROL DISTRICT'S FUGITIVE DUST CONTROL MEASURES AND OZONE EMISSION MEASURES DURING CONSTRUCTION.

- 33. ALL EARTHWORK AND GRADING SHALL BE IN CONFORMANCE WITH CHAPTERS 29 AND 70 OF THE UNIFORM BUILDING CODE, DATED 1994.
- 34. THE TOTAL EARTHWORK QUANTITY IS: APPROX. VOLUME OF FILL = 11,000 CYD THESE EARTHWORK QUANTITIES ARE NOT BID QUANTITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES.
- CONTRACTOR SHALL SUBMIT TO DILLON & MURPHY FOR APPROVAL EQUIPMENT AND MATERIAL SPECIFICATION OF ITEMS HE WISHES TO SUBSTITUTE FROM THAT WHICH IS SPECIFIED ON THE IMPROVEMENT PLANS, SAN JOAQUIN COUNTY STANDARD PLANS AND SPECIFICATIONS AND PROJECT SPECIFICATIONS. SAN JOAQUIN COUNTY SHALL HAVE THE FINAL SAY.
- CONTRACTOR SHALL NOT CAUSE THE CONSTRUCTION SURVEY STAKES TO BE DESTROYED OR REMOVED UNTIL THE IMPROVEMENTS HAVE BEEN ACCEPTED BY THE INSPECTOR. CONTRACTOR SHALL COORDINATE ACCEPTANCE OF IMPROVEMENTS BY THE INSPECTOR SO THAT THE PREVIOUS SET OF CONSTRUCTION STAKES DO NOT CONFLICT WITH THE NEXT PHASE OF CONSTRUCTION.
- 37. ALL LINEAR FOOTAGES, AREAS OR VOLUMETRIC AMOUNTS OF PIPING MATERIAL, CONCRETE, ASPHALT CONCRETE, EXCAVATION AND IMPORT FILL MATERIAL SHOWN ON THESE IMPROVEMENT PLANS ARE APPROXIMATE. ACTUAL AS-BUILT FIELD MEASUREMENTS SHALL
- PRIOR TO ACCEPTANCE OF IMPROVEMENTS. STREET LIGHTS SHALL BE INSTALLED AND ENERGIZED. S.J. COUNTY WILL MAINTAIN ALL STREET LIGHTS AND STANDARDS UPON ACCEPTANCE OF PROJECT AS COMPLETE.
- CONTRACTOR SHALL OBTAIN A SIGNED PLAN FOR THIS PROJECT PRIOR TO BEGINNING ANY GRADING ON-SITE OR OFF-SITE.
- NONPOTABLE WATER SHALL BE USED ON THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING OF THE INTENDED SOURCE PRIOR TO CONSTRUCTION.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN ANY EXISTING ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT SPECIFIC APPROVAL OF THE DIRECTOR.
- 42. IF NECESSARY, A TRAFFIC CONTROL PLAN (TCP) SHALL BE SUBMITTED TO AND DEEMED ACCEPTABLE BY COUNTY PRIOR TO START OF WORK. THIS SHALL ADDRESS ALL PHASES OF WORK, WHICH WILL IMPACT PUBLIC TRAFFIC. CONFORMANCE WITH THE TCP SHALL BE MAINTAINED AT ALL TIMES. THE TCP SHALL BE DRAWN TO SCALE, AND IN CONFORMANCE WITH THE LATEST MUTCD MANUAL AND CALIFORNIA SUPPLIMENTAL MANUAL
- WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THE SPECIFICATIONS. THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING.
- DRAINAGE FACILITIES SHALL BE MAINTAINED DURING PERIODS OF INCLEMENT WEATHER, AND RESTORED TO THEIR ORIGINAL CONDITIONS UPON COMPLETION OF THE WORK.
- CONTRACTOR SHALL VERIFY ALL STREET NAMES WITH SAN JOAQUIN COUNTY COMMUNITY DEVELOPMENT DEPARTMENT BEFORE ORDERING STREET SIGNS.
- WHERE WORK IS BEING DONE IN AN OFFSITE EASEMENT, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 48 HOURS PRIOR TO COMMENCING WORK.
- GRADING/CONSTRUCTION THAT DISTURBS MORE THAN ONE ACRE WILL REQUIRE THE FILING OF A NOTICE OF INTENT (NOI) TO COMPLY WITH THE STATE'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL CONSTRUCTION PERMIT. A COPY OF THE NOI SHALL BE PLACED IN THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). WHICH IS TO BE KEPT ONSITE.



DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

ENGINEERING • PLANNING • SURVEYING 1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242 (209) 334-6613

IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

GENERAL NOTES AND SPECIFICATIONS

NOVEMBER, 2004 SAN JOAQUIN COUNTY, CALIFORNIA

. NO.	DESCRIPTION	DATE	SCALE: N.T.S.	BENCH MARK:88-42 EL: 138.58	SHEET
			DRAWN BY: LM/SM	DESCRIPTION:	2
			DESIGNED BY:		OF 17 SHEETS
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			AS BUILT BY:	OF WAS ARTHOR BRIVE.	0005

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RECORD DRAWING Corrections By

No Changes, By B. A. Gorbit Date 4/4/06 Any Person Using This Drawing Should Verity

All information By inspecting The Site Of Work

REV.

IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

UTILITY/DISTRICTS

TELEPHONE: SBC TELEPHONE COMPANY NATURAL GAS &

ELECTRICITY: PACIFIC GAS & ELECTRIC COMPANY
SANITARY DISTRICT: CSA 44 ZONE "G"
DOMESTIC WATER: CSA 44 ZONE "G"
STORM DRAINAGE: CSA 44 ZONE "G"
STREET LIGHTING: CSA 44 ZONE "G"

BEING A PORTION OF SECTION 3, T.3S., R.5E., M.D.B.&M., SAN JOAQUIN COUNTY, CALIFORNIA NOVEMBER, 2004

REFER TO MAJOR SUBDIVISION APPLICATION NO. PA-04-228

SHEET INDEX

TITLE SHEET

DESCRIPTION

OVERALL GRADING PLAN

EROSION CONTROL PLAN

EROSION CONTROL PLAN

STORM RETENTION BASIN PLAN

SAN JOAQUIN COUNTY STANDARD PLANS

SAN JOAQUIN COUNTY STANDARD PLANS

OVERALL UTILITY PLAN

GRADING PLAN: 1

GRADING PLAN: 2

GENERAL NOTES AND SPECIFICATIONS

TOPOGRAPHIC, STREET LIGHT, STREET SIGN, STRIPING, MONUMENT AND FIRE HYDRANT LOCATION MAP

GERHART LANE STA. 20+00.00 TO STA. 29+39.00

RENEE AVE. STA. 7+80.67 TO STA. 9+51.45 LEO DR. STA. 40+00.00 TO STA. 42+89.98

LEEANNA LN. STA. 50+00.00 TO STA. 55+80.00

ACCESS RD. STA. 60+00.00 TO STA. 64+26.00

BATES ROAD STA. 121+84.31 TO STA. 128+68.76

SHEET NO.

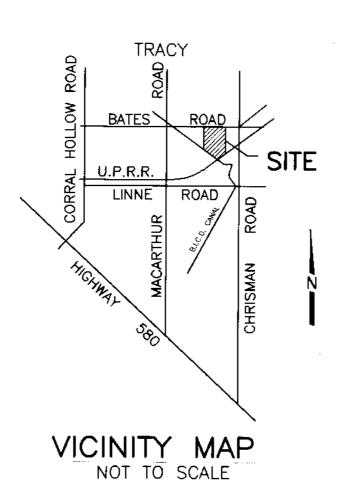
13A

14

17

ABBREVIATIONS

CC. BCR BCL BCC CCR CCR CCR CCR CCR CCR CCR CCR CCR	ASPHALT CONCRETE BEGINNING OF CURVE BEGINNING OF CURVE RETURN CATCH BASIN CENTERLINE DUCTILE IRON PIPE END OF CURVE END OF CURVE END OF CURVE RETURN EDGE OF PAVEMENT FACE OF CURB FINISH GRADE FLOWLINE GRADE BREAK GATE VALVE HYDRAULIC GRADE LINE HIGH POINT	INV. LF L,P. MH PCC PRCC P.U.E. PVC P.S.D.E. RCP SD SS TB TC WCO	INVERT LINEAR FEET LOW POINT MAINTENANCE HOLE POINT OF COMPOUND CURVE POINT OF REVERSE CURVE PROPERTY LINE PUBLIC UTILITY EASEMENT POLYVINYL CHLORIDE PRIVATE STORM DRAINAGE EASEMEN REINFORCED CONCRETE PIPE STORM DRAIN SANITARY SEWER TOP OF BERM TOP OF CURB WATER CLEAN OUT



LEGEND

_____ 120 _____

(— ▶	EXISTING FIRE HYDRANT	€	PROPOSED FIRE HYDRANT
※	EXISTING ELECTROLLER)	PROPOSED ELECTROLLER 100 W. HPS, UNLESS OTHERWISE NOTED.
- 0-	EXISTING POWER POLE	→	PROPOSED POWER POLE.
EX. 24" SD	EXISTING STORM DRAIN	24" SD	PROPOSED STORM DRAIN - A.D.S. & CLASS III R.C.P.
EX. 12" SS	EXISTING SANITARY SEWER	12" SS	PROPOSED SANITARY SEWER - P.V.C. S.D.R. 35
EX. 8" W	EXISTING WATER	8" W	PROPOSED WATER - CLASS 150 C 900 AND
× 125.50	EXISTING GRADE	7.45 OG	CLASS 200 C 900 DESIGN GRADE
——————————————————————————————————————	EXISTING WATER VALVE		PROPOSED WATER VALVE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

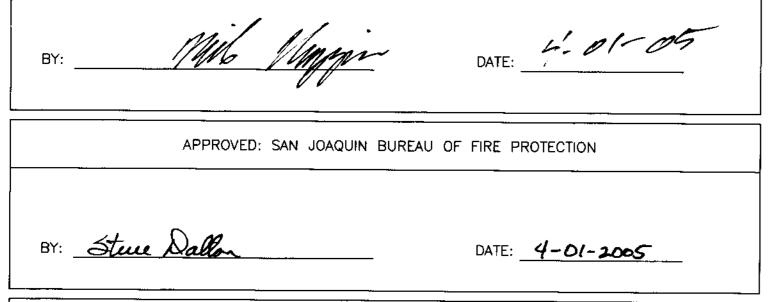
S A

SAN JOAQUIN COUNTY STANDARD PLANS & TYPICAL STREET

BEFORE YOU DIG

CALL USA UNDERGROUND SERVICE ALERT
48 HOURS PRIOR TO CONSTRUCTION. CALL
TOLL FREE 1-800-227-2600

KEEP ALL VEHICLES, EQUIPMENT, TOOLS AND
PEOPLE 10 FEET FROM POWER LINES, IF YOU
MUST WORK WITHIN 10 FEET OF POWER LINES
PLEASE CALL PG&E © 800-743-5000



EXISTING CONTOUR LINE

SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES

APPROVED: ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS

APPROVED: Multi Ciller

SENIOR CIVIL ENGINEER

DATE <u>5/16/05</u>

RCE NO. 46533

EXP. DATE 6/30/07

DEPARTMENT OF PUBLIC WORKS

DIRECTOR OF PUBLIC WORKS
COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

DATE: 5/19/05

RECORD DRAWING

Corrections By
No Changes By
Date 4/4/06
Any Person Using This Drawing Should Verify
All information By inspecting The Site Of Work



SECTION

DILLON & MURPHY

CONSULTING CIVIL ENGINEERS

ENGINEERING • PLANNING • SURVEYING

1820 W. KETTLEMAN LANE, SUITE E, LODI, CALIFORNIA 95242 (209) 334

IMPROVEMENT PLANS FOR TRACT NO. 3440 CARBONA STATION UNIT 3

TITLE SHEET

NOVEMBER, 2004 SAN JOAQUIN COUNTY, CALIFORNIA

REV. NO.	DESCRIPTION	DATE	SCALE: N.T.S.	BENCH MARK:BB-42 EL:138.58	SHEET
			DRAWN BY: LM, EK, SM	DESCRIPTION:	1
			DESIGNED BY:	BRASS CAP S/W CORNER OF CONCRETE CULVERT 114' NORTH	OF 17 SHEETS
			CHECKED BY:	OF LINNE RD. ON THE WEST SIDE OF MAC ARTHUR DRIVE.	JOB NO.
			AS BUILT BY:	OF WAC ARTHUR DRIVE.	0005