#### SHEET NUMBER

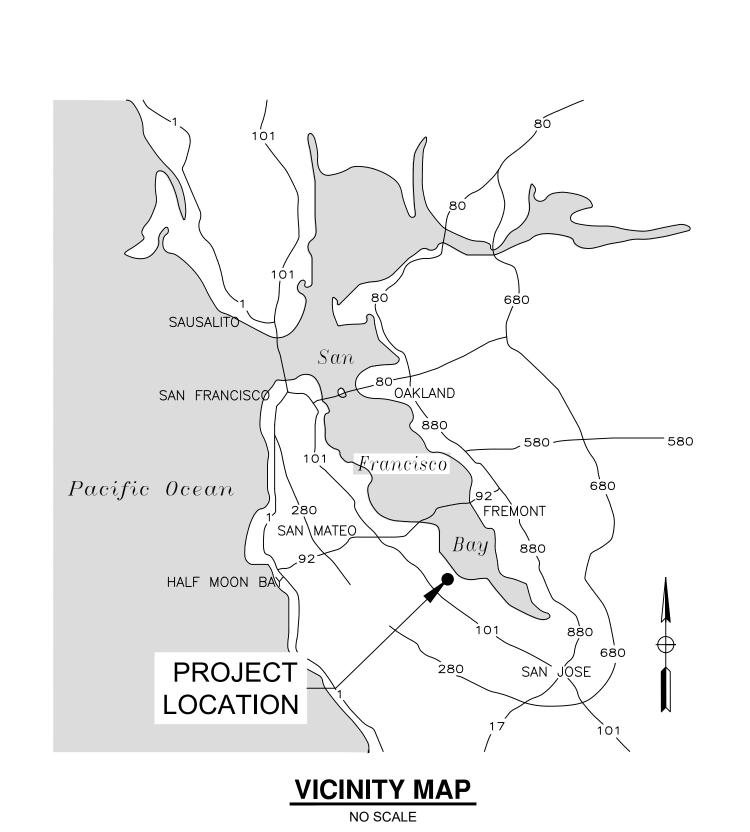
SHEET TITLE

# CITY OF EAST PALO ALTO

## NEWBRIDGE STREET TRASH CAPTURE DEVICE PROJECT

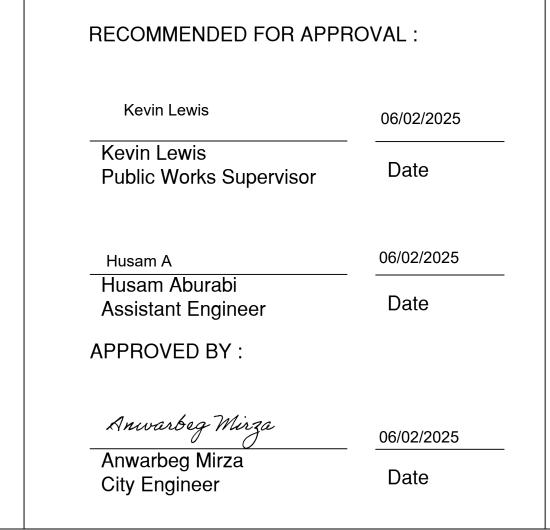
PLAN AND PROFILE TRASH CAPTURE DEVICE DETAILS CONSTRUCTION DETAILS

**NOTES SHEET** 





**LOCATION MAP** 









#### **GENERAL NOTES**

- 1. BENCHMARK: BM#5 (CITY OF EAST PALO ALTO BENCHMARK) BEING A STAINLESS STEEL ROD IN SLEEVE MONUMENT IN GRADE BOX (MARKED SURVEY MONUMENT EPA BM) IN LANDSCAPING AT SOUTH EDGE OF NEWBRIDGE STREET SIDEWALK SIDEWALK NEAR INTERSECTION WITH BAY ROAD AND 100' WESTERLY OF BUS STOP. ELEVATION: 16.81' (NAVD 88)
- 2. BASIS OF BEARINGS: THE BEARING OF SOUTH 66° 50' 43" EAST TAKEN ON THE CENTER LINE OF NEWBRIDGE STREET AS SHOWN AS SOUTH 66° 50' 43" EAST ON THAT CERTAIN RECORD OF SURVEY FILED FOR RECORD ON JULY 1,1993, IN BOOK 14 OF MAPS AT PAGE(S) 141-143, OFFICIAL RECORDS OF SAN MATEO COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.
- 3. MATERIAL SPECIFICATIONS NOT DETAILED HEREIN SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS.
- 4. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PEOPLE, CONES OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS.
- 5. CONTRACTOR SHALL REPLACE, AT HIS EXPENSE, ALL TREES, SHRUBS, LAWNS, FENCES, IRRIGATION SYSTEMS AND IMPROVEMENTS WHICH ARE TO REMAIN INTACT BUT HAVE BEEN REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOT REMOVE OR DAMAGE IMPROVEMENTS LOCATED WITHIN CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE CITY; OR FROM PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
- 6. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO EQUIPMENT PROCUREMENT AND CONSTRUCTION. IF FIELD CONDITIONS VARY SIGNIFICANTLY FROM THE CONSTRUCTION PLANS, CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- 7. CONTRACTOR BEARS SOLE RESPONSIBILITY FOR THE DESIGN AND IMPLEMENTATION OF TEMPORARY FACILITIES.
- 8. BEFORE DIGGING, CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600. CONTRACTOR SHALL COORDINATE WITH USA TO LOCATE EXISTING UTILITIES AND EXCAVATE WITH CAUTION TO AVOID UTILITY DAMAGE. CONTRACTOR IS LIABLE FOR ALL UTILITY DAMAGE REPAIR AS A RESULT OF HIS OPERATIONS.
- 9. CONTRACTOR SHALL EXERCISE DUE CARE AND CONCERN TO AVOID INJURY TO EXISTING FACILITIES IMPROVEMENTS, UTILITIES, AND PROPERTY. CONTRACTOR TO REPLACE OR RESTORE TO INITIAL CONDITIONS ANY FACILITIES, IMPROVEMENTS, UTILITIES, OR OTHER PROPERTY DAMAGED OR DISTURBED AS A RESULT OF CONSTRUCTION.
- 10. CONTRACTOR TO MAINTAIN A MEANS OF ACCESS TO PROPERTIES, DRIVEWAYS, AND DWELLINGS AT ALL TIMES.
- 11. ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND PUBLIC RIGHT-OF-WAY.
- 12. THE CONTRACTOR SHALL NEITHER WASTE NOR DEPOSIT ANY HAZARDOUS MATERIALS ON THE GRADING SURFACES OR WITHIN THE GRADED CUT AND FILL AREAS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO GASOLINE OR DIESEL FUELS, MOTOR OILS OR TRANSMISSION FLUIDS, ANTIFREEZE, HYDRAULIC FLUIDS, LUBRICANTS, STARTING FLUIDS AND FILTERS AND/OR CONTAINERS FOR THESE PRODUCTS. HAZARDOUS MATERIAL SPILLS THAT OCCUR AS A RESULT OF EITHER EQUIPMENT FAILURES OR VANDALISM, INCLUDING ALL ADJACENT CONTAMINATED SOILS, SHALL BE REMOVED AND TRANSPORTED TO AN ENVIRONMENTALLY APPROVED DISPOSAL SITE. ALL REMOVAL, TRANSPORTATION AND DISPOSAL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS SUBCONTRACTORS.
- 13. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
- 14. SHOULD IT APPEAR THAT THE WORK TO BE PERFORMED OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER, (415) 823-4964 WITH ANY QUESTIONS OR DISCREPANCIES. ANY REVISIONS REQUIRE REQUIRE OWNER'S APPROVAL BEFORE PROCEEDING WITH REVISED PLANS.
- 15. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CIVIL ENGINEER AND THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CIVIL ENGINEER.
- 16. THE GENERAL CONTRACTOR SHALL POSSESS A VALID CLASS A- GENERAL ENGINEERING CONTRACTOR LICENSE, ALL OTHERS SHALL POSSESS THE APPLICABLE C-SERIES LICENSE, AT THE TIME THE CONTRACT IS AWARDED AND SHALL MAINTAIN THROUGHOUT THE LENGTH OF THE CONTRACT.
- 17. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS AT THE JOB SIT FOR PUBLIC WORKS. AMBULANCE. POLICE, AND FIRE DEPARTMENTS. CONTRACTOR SHALL POST SIGN AT JOB SITE BEARING OWNER'S NAME AND SITE ADDRESS. PROPERTY CORNERS SHALL BE CLEARLY MARKED.
- 18. CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING EXCAVATION AND TRENCHING. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
- 19. EXCAVATION SHALL BE ADEQUATELY SHORED, BRACED, AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING, AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEY SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT THEIR OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING AND JACKING PIT IS REQUIRED, THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- 20. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE AGENCY DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT EXISTING UTILITY LINES.
- 21. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, AND PROCEDURES OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR MUNICIPAL, CONSTRUCTION, AND INDUSTRIAL ACTIVITIES AS PROMULGATED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD OR ANY OF ITS REGIONAL WATER QUALITY
- CONTROL BOARDS. REFER TO THE FOLLOWING GENERAL PERMITS 21.1. WQO 2022-0057-DWQ, GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITES, WITH AMENDMENTS
- 21.2. WQO R2-2022-0018, REGIONAL PERMIT FOR STORM WATER DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4S).

#### LEGEND

	NEW	EXISTING
CONCRETE		
ELEVATION		— <del>15</del> —
DETAIL DESIGNATION SHEET NO. WHERE DETAIL IS DRA	AWN	XXX
UNDERGROUND ELECTRIC		——— UE ———
TELCO COMMUNICATION		COM
WATER		W
GAS TRANSMISSION		—— G——
EXISTING STORM DRAIN		SD
EXISTING SANITARY SEWER		ss
PROPOSED STORM DRAIN		SD
BOUNDARY LINES		
BACK OF SIDEWALK		

#### **ABBREVIATIONS**

Ø	DIAMETER, PHASE	JP	JOINT POLE
AB	AGGREGATE BASE	L	ANGLE
AC	ASPHALTIC CONCRETE	MFR	MANUFACTURER
ATT	AT&T	MH	MANHOLE
BC	BACK OF CURB	MISC	MISCELLANEOUS
BFP	BACKFLOW PREVENTER	N	NORTH
BLDG	BUILDING	(N)	NEW
BOW	BACK OF WALK	ŇÉ	NORTHEAST
BW	BOTTOM OF WALL	NW	NORTHWEST
C,CONC	CONCRETE	NTS	NOT TO SCALE
CATV	CABLE TV	OC	ON CENTER
CB	CATCH BASIN	(P)	PROPOSED
CDF	CONTROL DENSITY FILL	PB	PULLBOX
CFS	CUBIC FEET PER SECOND	PGE	PACIFIC GAS & ELECTRIC
CL	CENTERLINE	REQ	REQUIRED
CLF	CHAIN-LINK FENCE	RW	RECYCLED WATER
CO	CLEAN OUT	S	SOUTH
COM	COMMUNICATIONS	SCH	SCHEDULE
CPP	CORRUGATED PLASTIC PIPE	SD	STORM DRAIN
CR	CROWN	SDMH	STORM DRAIN MANHOLE
CUL	CULVERT	SE	SOUTHEAST
DI	DRAIN INLET	SS	SANITARY SEWER
DSBB	DEBRIS SEPARATING BAFFLE BOX	SSFM	SANITARY SEWER FORCE MAIN
DWY	DRIVEWAY	SST	STAINLESS STEEL
(E)	EXISTING	STL	STEEL
E	EAST	SSCO	SANITARY SEWER CLEANOUT
	ELEVATION	SW	SIDEWALK
ELL	ELBOW	TC	TOP OF CURB
ELEC	ELECTRIC	TCD	TRASH CAPTURE DEVICE, TRUNCATE
EM	ELECTRIC METER		DOME (CURB RAMP)
EP	EDGE OF PAVEMENT	TV	CABLE TV BOX
ESMT	EASEMENT	TW	TOP OF WALL
FL	FLANGE	TYP	TYPICAL
FNC	FENCE	USA	UNDERGROUND SERVICE ALERT
G	GAS	W	WATER OR WEST
GB	GRADE BREAK	W/	WITH
GV	GATE VALVE	WM	WATER METER

WATER VALVE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE REPRESENTED IN THE PLAN SET

INVERT/INVERT ELEVATION

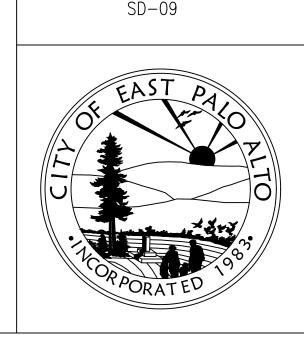
IRRIGATION

chaaf

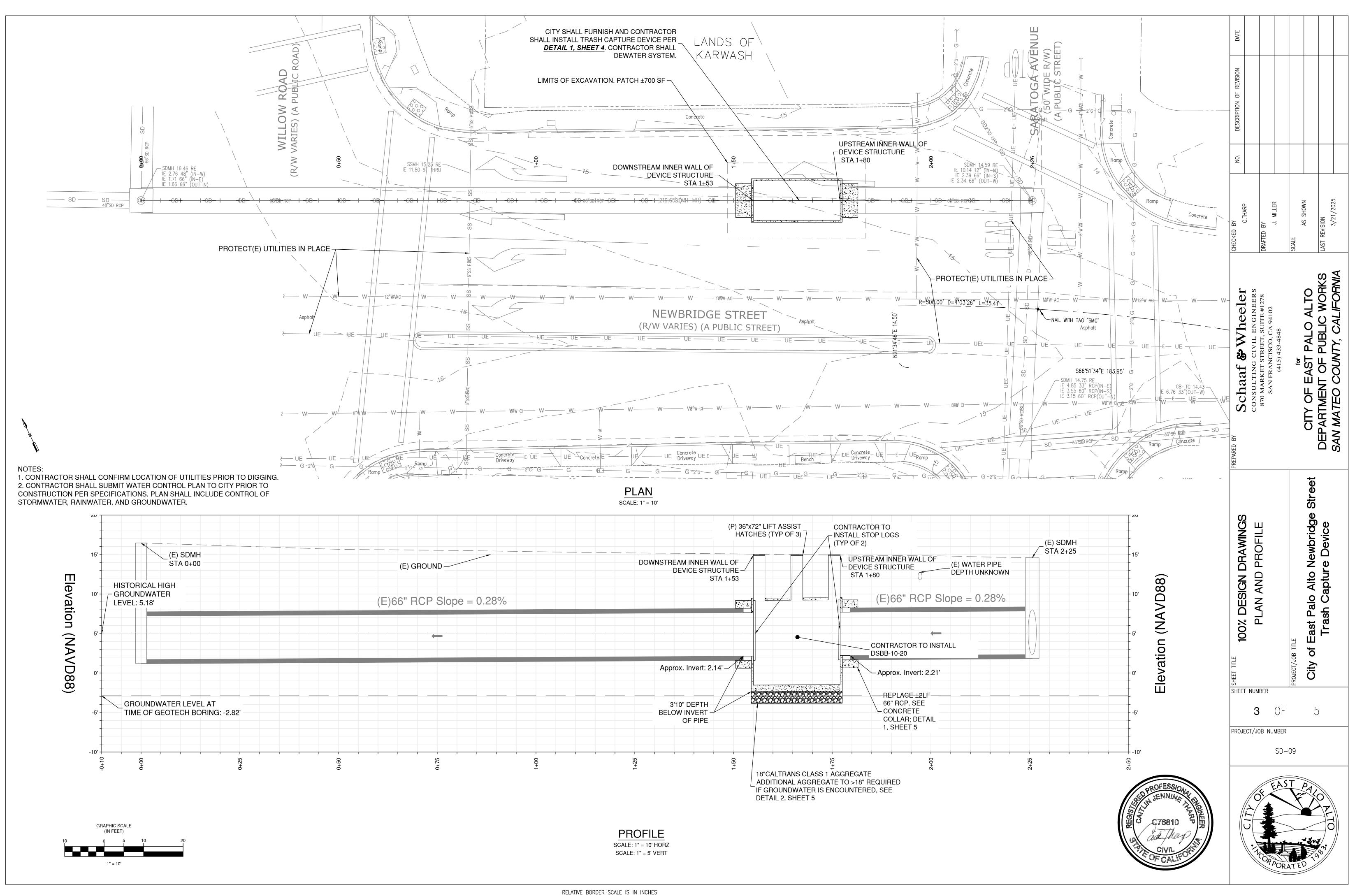
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370 MARKET

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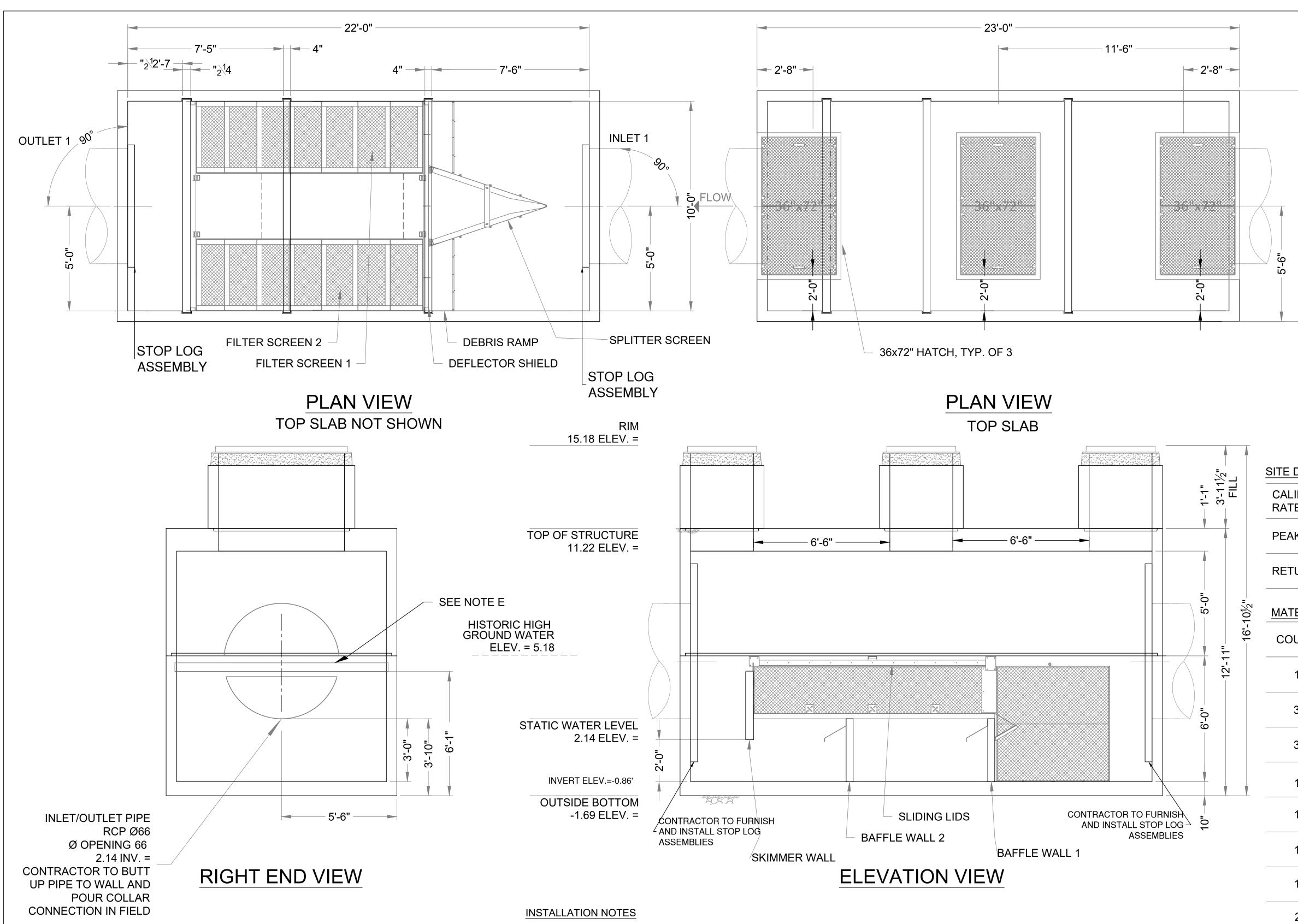




PROJECT/JOB NUMBER



NOTE: IF THIS LINE DOES NOT MEASURE 3 INCHES, THESE PLANS ARE NOT TO SCALE.



#### GENERAL NOTES

- PRECASTER TO PROVIDE MATERIALS AS NOTED IN TABLE, THIS SHEET. CONTRACTOR TO PROVIDE MATERIALS AS NOTED IN TABLE, THIS SHEET.
- 2. DEBRIS SEPARATING BAFFLE BOX (DSBB) WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- 3. STRUCTURE SHALL MEET AASHTO HS-20 LIVE LOAD RATING, ASSUMING EARTH COVER OF 0'-5', AND GROUNDWATER 10 FEET BELOW GROUND SURFACE. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- 4. DSBB STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857 AND AASHTO LRFD METHOD.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = BASE SECTION 70,500 LBS.
BASE SECTION SHIPPED WITH BAFFLES & CAGE INTERNALS INSTALLED STRUCTURE DELIVERED IN 2 PIECE(S)
MAX. FOOTPRINT = 11' x 23'

- A. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE DSBB STRUCTURE. SPREADER BAR WITH SUFFICIENT CABLE IS REQUIRED FOR SAFETY AND REDUCTION OF DAMAGE TO CONCRETE STRUCTURE.
- B. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- C. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT DSBB FROM CONSTRUCTION RELATED EROSION RUNOFF
- E. 1' OF CONCRETE TO REMAIN IN-TACT THROUGH PIPE OPENINGS IN RISER TO BE CUT AND REMOVED ON SITE AFTER INSTALLATION.

#### SITE DESIGN DATA

CALIFORNIA FULL CAPTURE FLOW RATE	103 CFS
PEAK FLOW RATE	162 CFS
RETURN PERIOD OF PEAK FLOW	10

#### MATERIALS LIST

COUNT	DESCRIPTION	PROVIDED BY
1	CAGE INTERNALS FOR TRASH CAPTURE DEVICE	PRECASTER
3	LIFT ASSIST HATCHES	PRECASTER
3	RISERS FOR HATCHES AS NEEDED	PRECASTER
1	BAFFLE WALL 1	PRECASTER
1	BAFFLE WALL 2	PRECASTER
1	SKIMMER WALL	PRECASTER
1	SEALANT FOR JOINTS	CONTRACTOR
2	STOP LOGS	CONTRACTOR

100% DESIGN DRAWINGS
ASH CAPTURE DEVICE DETAILS
SAN FRAN
(415
East Palo Alto Newbridge Street
Trash Capture Device

DEPARTMENT OF

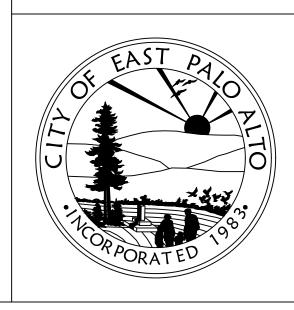
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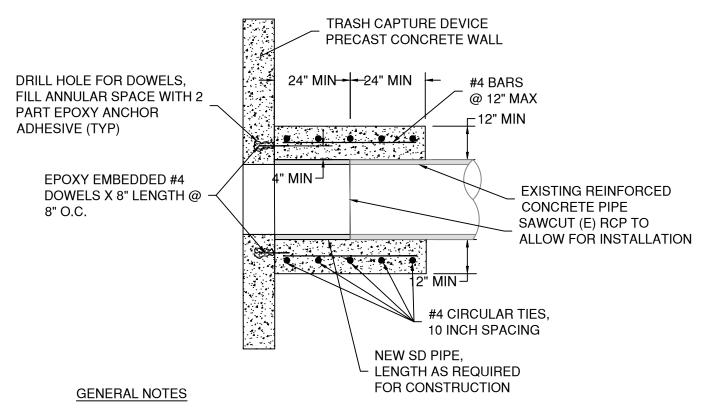
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PROJECT/JOB NUMBER

SD-09



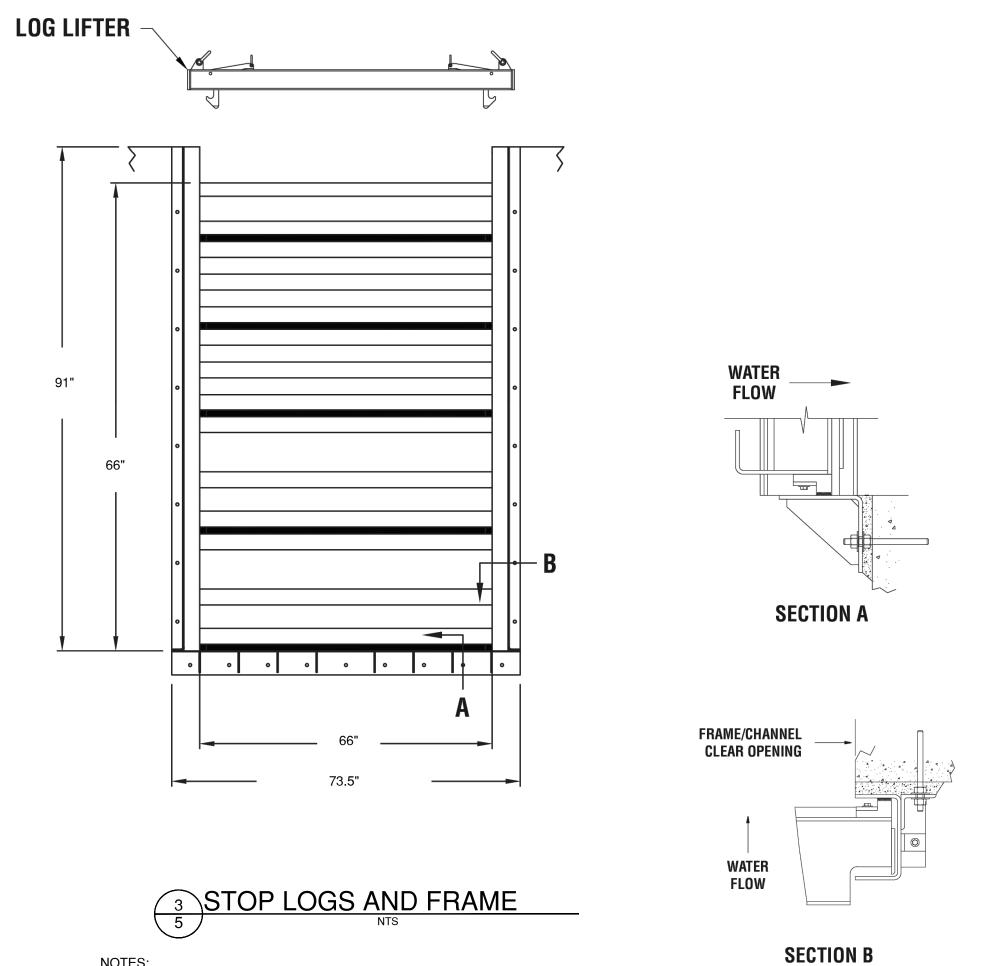




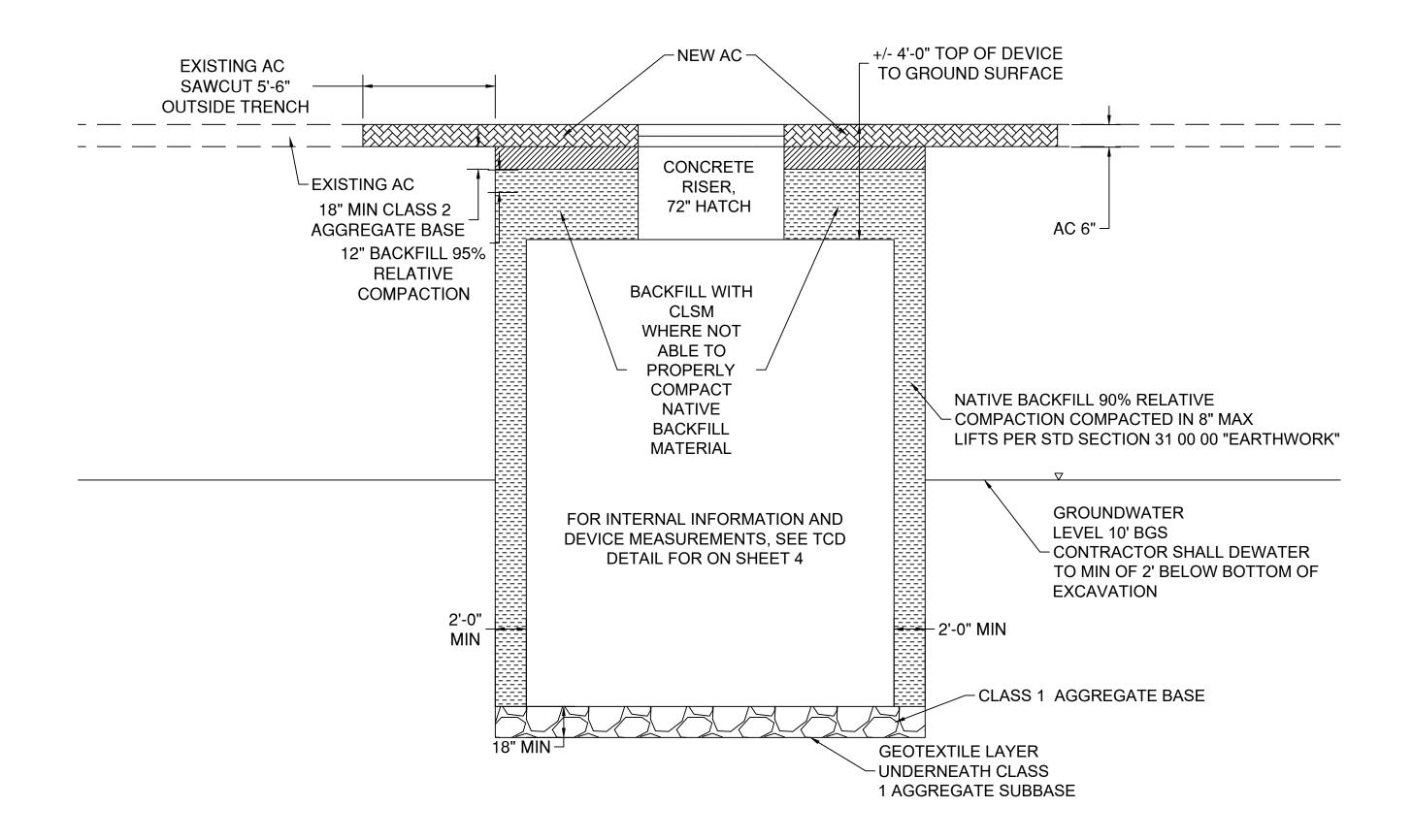


- 1. FOR RCP PIPE DIAMETERS FROM 54 to 84 INCHES.
- 2. CONCRETE SHALL BE CLASS A AND COMPLY WITH SPECIFICATION 03 30 55 "CAST-IN-PLACE CONCRETE".
- 3. REINFORCEMENT CONFORM TO SPECIFICATION 33 41 02 "REINFORCED CONCRETE
- 4. FOR EPOXY DETAILS, SEE SECTION 03 63 00 "EPOXIES" IN THE STANDARD SPECIFICATIONS.





- 1. STOP LOGS SHALL BE SEALING IN BOTH DIRECTIONS ASSUMING BI-DIRECTIONAL FLOW. 2. CONTRACTOR SHALL PROVIDE LIFTING ASSEMBLY PER SPECIFICATIONS.
- 3. CONTRACTOR SHALL PROVIDE STORAGE RACKS PER SPECIFICATIONS.



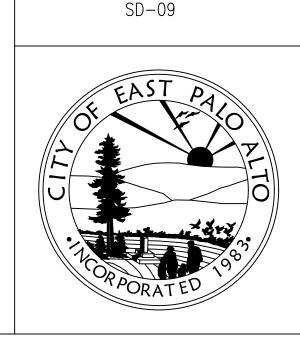
### **2 TCD TRENCH DETAIL**

1. IF GROUNDWATER AND SOFT SOIL IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATION, A MUD SLAB SHALL BE CONSTRUCTED AT THE BASE OF THE EXCAVATION OVER GEOGRID (TENSAR BX1200 OR EQUIVALENT) INSTALLED DIRECTLY ON SUBGRADE. GEOGRID SHALL EXTEND UP THE SIDES OF THE EXCAVATION TO COVER GEOTEXTILE. MUD SLAB SHALL CONSIST OF 6 INCHES OF PORTLAND CEMENT CONCRETE, LEAN CONCRETE BASE, OR CLSM. ABOVE THE MUD SLAB MINIMUM 1-FOOT-THICK LAYER OF CALTRANS CLASS 1 AGGREGATE SUBBASE COVERED WITH GEOTEXTILE (MIRAFI 500X OR EQUIVALENT) SHALL BE PLACED. 2. BACKFILL SHALL BE ONE OF THE FOLLOWING:

A. NATIVE MATERIAL. APPROVED BY THE GEOTECHNICAL ENGINEER FOR RE-USE. COMPACTED TO 90% R.C. BELOW THE UPPER 12-INCHES OF STREET SUBGRADE AND 95% R.C. IN THE UPPER 12-INCHES. MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8-INCHES. B. CLSM; WHERE COMPACTION NOT FEASIBLE.

GN DRAWINGS	PREPARED BY Schaaf & Wheeler
JCTION DETAILS	CONSULTING CIVIL ENGINEERS 870 MARKET STREET, SUITE #1278
	SAN FRANCISCO, CA 94102
	(415) 433-4848
	for
Alto Newbridge Street	CITY OF EAST PALO ALTO
)	





SHEET NUMBER

PROJECT/JOB NUMBER