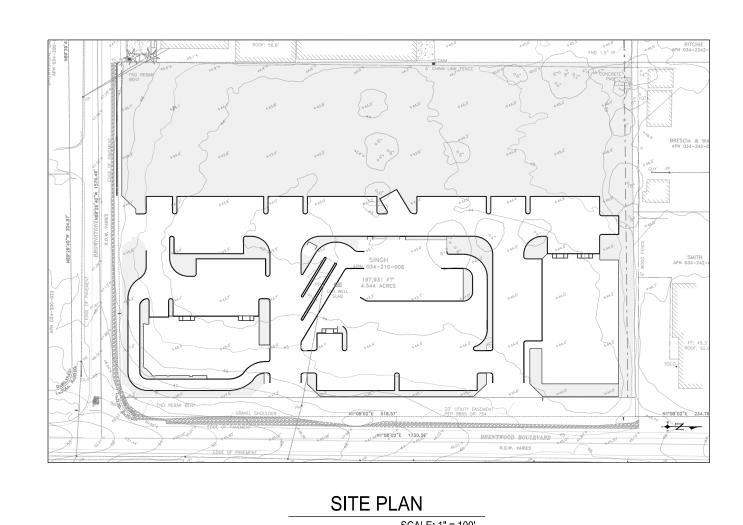
BROWNSTONE & MAIN COMMERCIAL DEVELOPMENT



VICINITY MAP

CONCEPTUAL CIVIL PLANS
FOR DEVELOPMENT AT N.W. CORNER OF
BROWNSTONE ROAD & BRENTWOOD BLVD / MAIN ST.





VICINITY MAP

BASIS OF BEARINGS

THE CALCULATED TIE BETWEEN FOUND MONUMENTS AS SHOWN ON THAT CERTAIN RECORD OF SURVEY (141 LSM 4) AT THE INTERSECTION OF BROWNSTONE ROAD AND AND ERSON LANE, KNOWN AND ACCEPT AS N68°10'O4"W

BENCHMARK

BENCHMARK DISK SET IN CONCRETE CURB AT THE SE CORNER OF HWY 4 & BOLTON ROAD, BEING 25' EAST OF THE CL OF HIGHWAY 4 & 165' SOUTH OF THE CL OF BOLTON ROAD DEIGNATED CONTRA COSTA COUNTY BENCHMARK NO. 3028 (NGVD 29, ELEV 45.50')
ELEVATION VIA VERTICON SHIFT = 47.89 (NAVD 88)

SOILS NOTE

ALL EARTHWORK ACTIVITIES SHALL CONFORM TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING INVESTIGATION, PREPARED BY BEAR ENGINEERING GROUP, INC, CONCORD, CA #02-2020-.01 DATED JANUARY 9, 2020.

ABBREVIATIONS

AB - AGGREGATE BASE MAX - MAXIMUM MIN - MINIMUM AC - ASPHALT CONCRETE NAPOTS - NOT A PART OF THIS SUBDIVISION ARV - AIR RELEASE VALVE P - PAD ELEVATION BF - BLIND FLANGE PL - PROPERTY LINE B/W - BACK OF WALK PP - POWER POLE CL - CENTER LINE / CLASS PVC - POLYVINYLCHLORIDE CONC. - CONCRETE PVMT - PAVEMENT CU - COPPER R - RADIUS DI - DRAIN INLET RIM - RIM ELEVATION DIP - DUCTILE IRON PIPE R/W - RIGHT OF WAY DWY - DRIVEWAY S - SLOPE, SOUTH SD - STORM DRAIN Ø - DIAMETER SS - SANITARY SEWER EL - ELEVATION STD - STANDARD EP - EDGE OF PAVEMENT S/W - SIDEWALK EXIST/EX - EXISTING TB - TOP OF BANK FF - FINISH FLOOR TC - TOP OF CURB FL - FLOWLINE TCD - THROUGH CURB DRAIN FG - FINISH GRADE TF - TOP OF FOOTING FH - FIRE HYDRANT TW - TOP OF WALL FOC - FACE OF CURB TYP - TYPICAL GB - GRADE BREAK UE- UNDERGROUND ELECTRICAL GR - GRATE ELEVATION UG- UNDERGROUND GAS HP - HIGH POINT **UT-UNDERGROUND TELEPHONE** IE - INVERT ELEVATION W - WATER MAIN INV - INVERT WM - WATER METER / MAIN L - LENGTH WS - WATER SERVICE

SYMBOL LEGEND

		EXISTING	PROPOSED	CONTRACTOR TO INSTALL STANDARD
_	SSMH	SANITARY SEWER MANHOLE	SSMH	SEWER MANHOLE
3	SDMH	STORM DRAIN MANHOLE		DROP INLET
		CATCH BASIN	0	CATCH BASIN
Ξ		CURB AND GUTTER		CURB & GUTTER
	0	CATCH BASIN	WV	WATER VALVE
	0 0	SIGN	WM 🗆——	1" WATER SERVICE & CHECK VALVE
	Ω	SIGN	FH WV	FIRE HYDRANT ASSEMBLY
	\bowtie	WATER VALVE	ВО	DI OMOSE AGOSTADIAY
	C	POWER POLE WITH GUY	──────	BLOWOFF ASSEMBLY
	 6"G	HP GAS LINE	SSCO	CLEANOUT
	т	TELEPHONE		CONCRETE
	6"W	WATER LINE	\triangle	WELL TYPE MONUMENT
_	85	EXISTING CONTOUR	😽	70W HPSV STREET LIGHT
_		TOP/TOE BANK	SLX	
-		PROPERTY LINE	*	EROSION CONTROL FILTER
_		CENTERLINE	SD	NEW STORM DRAIN
			WL	NEW WATER I INF

NOTE: APPROVAL OF THESE PLANS DOES NOT RELEASE THE DEVELOPER
OF THE RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS, OR
OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF
CONSTRUCTION OF THE IMPROVEMENTS PUBLIC INTEREST REQUIRES A
MODIFICATION OF OR A DEPARTURE FROM THE SPECIFICATONS AND
DETAILS OF THE CITY OF OAKLEY OF THESE PLANS, THE CITY ENGINEER
SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR
DEPARTURE AND TO SPECIFY SUCH MODIFICATION OR DEPARTURE AND TO
SPECIFY THE MANNER IN WHICH SAME IS TO BE MADE.

APPROVED AS TO DESIGN ONLY BASED ON INFORMATION SUBMITTED
HEREON

CITY OF OAKLEY

APPROVED BY CITY ENGINEER

DATE

SOILS ENGINEER APPROVAL:

THE GEOTECHNICAL ASPECTS OF THE PLAN HVE BEEN REVIEWED AND FOUND IN CONFORMANCE WITH THE SOILS REPORT DATED 8/16/16.

APPROVED

CUT: 10,130 CY FILL: 24,000 CY EXPORT: 0 CY

EXPORT: <u>0 CY</u> IMPORT: <u>13,870 CY</u>

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. DURING DESIGN PHASE EFFORT WILL BE MADE TO BALANCE CUT & FILL. DOES NOT INCLUDE FOUNDATIONS, PAVEMENT, UTILITY SPOILS, SHRINKAGE OR SWELL.

EARTH WORK QUANTITIES

SHEET INDEX

- C2 ROAD CROSS SECTIONS & GENERAL NOTES
- C3 SEWER NOTES
- C4 WATER NOTES C5 GRADING PLAN
- C6 EROSION CONTROL PLAN
 C7 UTILITY PLAN
- C8 STORM WATER PLAN
- C9 OFFSITE STORM DRAIN PLAN & PROFILE C10 WATER DETAILS
- C11 SEWER DETAILSC12 TRASH ENCLOSURE SEWER DETAILS
- C12 TRASH ENCLOSURE SEWER DET C13 STORM DRAINAGE DETAILS C14 MISC DETAILS

NOT FOR CONSTRUCTION

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CSI Engineering
77 Solano Square #283
Benicia, CA 94510
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DATE

BROWNSTONE & MAIN

SHEET

C1

1 OF 14 SHEETS

COVER SHEET

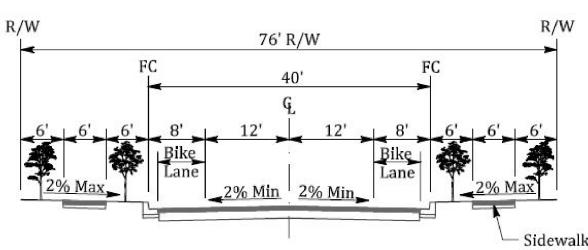
GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF OAKLEY STANDARD DETAILS AND SPECIFICATIONS.
- 2. BENCHMARK: THE COUNTY MONUMENT BENCHMARK 3028.
- 3. FINISH GRADE PROFILE REPRESENTS TOP OF CURB.
- ALL LOT FILL SHALL BE DONE IN CONFORMANCE TO THE SOILS ENGINEER'S RECOMMENDATIONS. SEE THE SOILS REPORT DATED JANUARY 9, 2020 , BY BEAR ENGINEERING COMPANY.
- ANY EXISTING WELLS ENCOUNTERED SHALL BE ABANDONED AND SEALED PER CONTRA COSTA HEALTH DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITIES 48 HOURS
 PRIOR TO ANY EXCAVATION SO THAT THEIR LINES CAN BE MARKED. THOSE
 TO BE NOTIFIED INCLUDE, BUT MAY NOT BE LIMITED TO:
- 7. UNDERGROUND SERVICE ALERT (800) 227-2600 (NEW NUMBER)
 PG&E PACIFIC BELL, TCI, DELTA IRONHORSE SANITARY DISTRICT, AND THE
 CITY OF OAKLEY
- ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- THE SURVEYOR SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF WHEN FIELD STAKING IS TO BE REQUIRED.
- 10. COMPACTION TESTS WILL BE PERFORMED ON ALL TRENCHES AND STREET WORK TO VERIFY THAT COMPACTION CONFORMS TO CITY STANDARDS. THE INITIAL TEST AND ONE RE-TEST WILL BE PERFORMED BY THE CITY (24 HOUR NOTICE REQUIRED). ALL ADDITIONAL TESTING WILL BE AT THE DEVELOPER'S/CONTRACTOR'S EXPENSE
- 11. ALL WORK ADJACENT TO EXISTING PAVEMENT SECTION SHALL BUTT UP TO FULL EXISTING SECTION. WHERE FULL SECTION IS NOT ENCOUNTERED, CONTINUE REMOVAL OF ADDITIONAL PAVEMENT UNTIL A FULL SECTION IS FOUND. SEE CITY STANDARD DETAIL ST-25
- 12. MONUMENTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE FINAL MAP IN ACCORDANCE WITH THE CITY STANDARD DETAILS AND SPECIFICATIONS.
- 13. THE STREET LIGHTS SHALL NOT BE INSTALLED UNTIL THE DEVELOPER HAS PROVIDED AN ACCEPTABLE STREET LIGHT WIRING PLAN SIGNED AND

- STAMPED BY A REGISTERED ELECTRICAL ENGINEER INDICATING THE WIRING RUN LOCATION BETWEEN THE STREET LIGHT AND THE POWER SOURCE FOR CITY RECORDS.
- 14. STREET TREES ARE TO BE PLANTED AT EACH LOT UPON OCCUPANCY. MAILBOXES SHALL BE INSTALLED AT EACH LOT IN ACCORDANCE WITH POST OFFICE REQUIREMENTS.
- 15. ALL PIPE GRADES SHOWN AS FLOW LINE ELEVATIONS.
- 16. ONE 4" SANITARY SEWER LATERAL AND CLEANOUT SHALL BE INSTALLED TO EACH LOT AT LOCATIONS SHOWN ON THE DRAWINGS AND AN "S" STAMPED ON THE CURB ABOVE THE LATERAL.
- 17. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 48".
 ONE WATER LATERAL SHALL BE INSTALLED TO EACH LOT AND A "W"
 STAMPED ON THE CURB ABOVE THE LATERAL.
- WHENEVER POSSIBLE SANITARY SEWER LATERALS TO CROSS UNDER WATER MAIN.
- 19. FIRE HYDRANTS SHALL BE PER APPROVED CITY LIST. PAVEMENT MARKERS SHALL BE INSTALLED AT EACH FIRE HYDRANT LOCATION PER DETAIL W-1.
- 20. ALL FIRE HYDRANT INSTALLATIONS WILL BE SUBJECT TO APPROVAL BY THE FIRE CHIEF. FLOW TESTING BY THE FIRE DEPARTMENT WILL ONLY BE MADE AT THE REQUEST OF THE PUBLIC WORKS INSPECTOR AT SUCH TIME AS ALL WORK IN THE WATER SUPPLY SYSTEM HAS BEEN COMPLETED.
- PRIOR TO BEGINNING ANY WORK ON EXISTING STREETS, ADVANCE-WARNING SIGNS (C18 AND C13) SHALL BE INSTALLED.
- 22. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH CALTRANS "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" CURRENT EDITION. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN ORDER
- 23. THE DEVELOPER/OWNER SHALL HAVE A JOB SUPERINTENDENT OR A DESIGNATED RESPONSIBLE REPRESENTATIVE ON THE JOB SITE ANYTIME WORK IS IN PROGRESS DURING THE CONSTRUCTION OF THE PROJECT. THE DEVELOPER/OWNER SHALL ADVISE THE CITY ENGINEER WHO THE DESIGNEE IS IN WRITING.
- 24. THE NOTICE SHALL INCLUDE AN EMERGENCY NOTIFICATION PHONE NUMBER. THE CITY SHALL BE ADVISED IN WRITING IF THERE IS TO BE A CHANGE IN JOB-SITE REPRESENTATIVE.
- 25. A PRE-CONSTRUCTION MEETING OF ALL THE CONTRACTOR'S REPRESENTATIVES INVOLVED IN THE PROJECT WILL BE HELD PRIOR TO

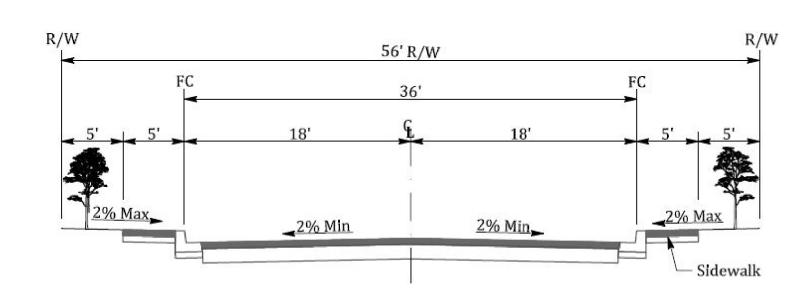
- THE START OF CONSTRUCTION AT THE REQUEST OF THE CITY OF OAKLEY CITY ENGINEER.
- 26. THE DEVELOPER SHALL PROVIDE "AS-BUILT" PLANS FOR TRAFFIC SIGNALS WITHIN TWO WEEKS OF SIGNAL TURN-ON.
- 27. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OF JOB SITE CONDITIONS DURING THE COURSES 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, IDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 28. IN INDUSTRIAL AREAS, ALL SANITARY SEWERS SHALL BE EXTRA STRENGTH VCP
- 29. CHANNEL CONSTRUCTION SHALL CONFORM TO CONTRA COSTA COUNTY FLOOD CONTROL STANDARDS AND AS SHOWN ON THESE PLANS
- 30. ALL STORM SEWERS SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED ON THE PLANS.
- 31. DEVELOPER SHALL PROVIDE THE FOLLOWING TO THE CITY PRIOR TO TRACT ACCEPTANCE FOR MAINTENANCE
- 32. AN ELEVATION CERTIFICATION OF ALL INSTALLED MONUMENTS FROM THE SURVEYOR. THE ELEVATION SHALL BE NOTED ON THE RECORD DRAWINGS; AN ELEVATION CERTIFICATION OF ALL PADS FROM THE SURVEYOR; A CERTIFICATION (FINAL SOILS REPORT) FROM THE SOILS ENGINEER STATING THAT ALL GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR THE PRELIMINARY SOILS REPORT.
- 33. THE STREET STRUCTURAL SECTIONS SHOWN ON THE PLANS ARE PRELIMINARY ONLY. FINAL STRUCTURAL SECTIONS WILL BE DETERMINED BASED ON ACTUAL "R" VALUE TESTS IN THE FIELD FOLLOWING CALTRANS FLEXIBLE PAVEMENT DESIGN CRITERIA.
- 34. CONSTRUCTION OPERATIONS WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAW CUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND, IF

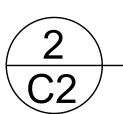
- NECESSARY, PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS, WHICH COULD CONTAMINATE STORM RUNOFF, SHALL BE STORED IN AREAS, WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
- 35. PAVEMENT CLEANING FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT
- 36. STORM DRAIN INLETS STORM DRAIN INLETS MUST BE STENCILED OR MARKED WITH THE FOLLOWING STATEMENT: "NO DUMPING, DRAINS TO DELTA." STENCILS MAY BE OBTAINED FROM THE WATER RESOURCES DIVISION OF THE PUBLIC SERVICES DEPARTMENT.
- 37. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED BY OCTOBER 15 OF EACH YEAR.
- 38. DURING GRADING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES BOTH ON-SITE AND ON THE HAUL ROUTE, INCLUDING (LIST ACTUAL HAUL ROUTE STREET NAMES). STREETS SHALL BE SWEPT A MINIMUM OF TWO TIMES A DAY OR AS REQUIRED BY THE CITY ENGINEER.
- 39. ALL GRADING SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN PREPARED BY THE DEVELOPER PER THE NOTICE OF INTENT ON FILE WITH THE STATE WATER RESOURCES CONTROL BOARD.



Minimum Structural Section: 3" AC / 6" AB

MAIN STREET CROSS SECTION





BROWNSTONE ROAD CROSS SECTION

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2 OF 14 SHEET

ROAD CROSS SECTIONS & GENERAL NOTES

IRONHOUSE SANITARY DISTRICT SEWER NOTES

- 1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRONHOUSE SANITARY DISTRICT (ISD) AND BE SUBJECT TO INSPECTION BY AN INSPECTOR REPRESENTING ISD. COPIES OF THE STANDARD PLANS AND SPECIFICIATIONS ARE AVAILABLE AT THE DISTRICT OFFICE, 450 WALNUT MEADOWS DRIVE, OAKLEY, CA 94561. PHONE: 925-625-2279.
- 2. ALL GRAVITY SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTM D 3034, SDR 26, UNLESS OTHERWISE NOTED. ALL SANITARY SEWER FORCEMAINS SHALL CONFORM TO AWWA C900, CLASS 200 (DR14). CONTRACTOR SHALL OBTAIN APPROVAL FROM ISD FOR SANITARY SEWER PIPE OR FORCEMAIN THAT DEVIATES FROM THIS CRITERIA.
- 3. GRAVITY SANITARY SEWERS SHALL BE LAID AT THE FOLLOWING MINIMUM SLOPES:

SEWER SIZE (INCHES)	MINIMUM SLOPE (FEET/FT)
8	0.0035
10	0.0028
12	0.0017
15	0.0015

- 4. MANHOLES SHALL BE PLACED AT INTERVALS NOT GREATER THAN THREE-HUNDRED (300) FEET.
- 5. ALL PIPES DELIVERED TO JOB SITE ARE TO BE MARKED AS TO PIPE TYPE, STRENGTH, CLASS AND BRAND NAME.
- 6. FINAL TESTS OF THE SANITARY SEWER ARE TO BE PERFORMED AFTER 100% ROCK IS PLACED AND COMPACTION TEST RESULTS ARE SATISFACTORY TO ISD, AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 18-03, CLEANING AND TESTING.
- 7. PLASTIC PIPE SHALL BE MANDRELED WITH RIGID MANDREL WITH EFFECTIVE CIRCULAR CROSS SECTION HAVING A DIAMETER OF AT LEAST 95% OF THE SPECIFIED AVERAGE INSIDE DIAMETER OF
- 8. ALL SEWER LINES SHALL BE AIR TESTED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 18-03, CLEANING AND
- 9. ALL SEWER LINES SHALL BE BALL FLUSHED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 18-03, CLEANING AND
- 10. ALL SEWER LINES 6-INCHES AND LARGER WILL BE TELEVISED BY AN ISD APPROVED COMPANY. THE TELEVISING CONTRACTOR SHALL BE APPROVED BY THE DISTRICT AT LEAST TWO WEEKS IN ADVANCE OF THE WORK. AN ISD INSPECTOR MUST BE PRESENT DURING THE TELEVISING
- 11. DEVELOPER SHALL FURNISH COMPACTION TEST OF SEWER TRENCH AT 400 FOOT INTERVALS BY A QUALIFIED LAB PER CENTRAL CONTRA COSTA SANITARY DISTRICT SPECIFICATION 20.03E.

IRONHOUSE SANITARY DISTRICT SEWER NOTES (CONT.)

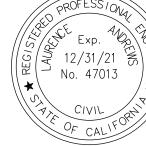
- 12. ALL PLASTIC SANITARY SEWER LINES AND LATERALS SHALL HAVE ROCK MATERIAL BEDDING AND SHADING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 28-21.
- 13. ALL 6-INCH LATERALS MUST BE TIED INTO A MANHOLE. NO DIRECT CONNECTION OF A 6-INCH LATERAL INTO A SEWER MAIN IS ALLOWED.
- 14. MINIMUM SLOPES FOR LATERALS ARE 4-INCH AT 2% AND 6-INCH AT 1%.
- 15. ISD SHALL RECEIVE ONE SET OF MYLAR AS-BUILTS AND CD OF AS-BUILTS IN AUTOCAD FORMAT. ACTUAL LOCATIONS OF HOUSE LATERALS ARE TO BE SHOWN ON "AS-BUILTS" AS ARE ALL DEVIATIONS FROM CONSTRUCTION PRINT.
- 16. EACH SEWER SERVICE LATERAL SHALL BE MARKED WITH A 2-INCH HIGH "S" INSCRIBED ON THE CURB DIRECTLY ABOVE THE SERVICE. LATERAL TO BE MARKED WITH A 2" X 4" STAKE PAINTED GREEN AND LEFT IN PLACE THROUGH THE FINAL YARD GRADE.
- 17. MINIMUM VERTICAL CLEARANCE BETWEEN SEWER MAIN AND ALL OTHER UTILITY CROSSINGS SHALL BE ONE (1) FOOT. IF LESS THAN ONE (1) FOOT THEN A SIX (6) INCH CONCRETE CAP SHALL BE PLACED OVER THE SEWER PIPE AS DIRECTED IN THE FIELD BY THE ISD INSPECTOR.
- 18. CONTRACTORS ARE REQUIRED TO FOLLOW ALL LOCAL, STATE, AND FEDERAL CONSTRUCTION REGULATIONS. BEFORE ENTERING ISD'S CONFINED SPACES CONTRACTORS ARE REQUIRED TO PROVIDE ISD THE FOLLOWING:
 - CONTRACTORS CONFINED SPACE PROGRAM,
 - CONFINED SPACE PERMIT FORM, PERSONNEL TRAINING RECORDS OF CONFINED SPACE SUPERVISOR, ATTENDANT,
 - ENTRANT, AND RESCUE PERSON, AND
- RESPIRATOR FIT TEST RECORD OF RESCUE PERSON. CONTRACTORS WILL NOT RELY ON LOCAL FIRE DEPARTMENT PERSONNEL TO PROVIDE CONFINED SPACE RESCUES.

JS:JT/PERMITS/FORMS/FY2005-2006/JSDSEWERNOTES.13.DOC

REVISED: 11-04-13

BY DATE CSJ DATE REVISIONS





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BROWNSTONE & MAIN

C3 3 OF 14 SHEETS

SEWER SYSTEM NOTES

APN: 034-210-006

SHEET

GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF OAKLEY STANDARD DETAILS AND SPECIFICATIONS.
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- FINISH GRADE PROFILE REPRESENTS TOP OF CURB.
- 4. ALL LOT FILL SHALL BE DONE IN CONFORMANCE TO THE SOILS ENGINEER'S RECOMMENDATIONS. SEE THE SOILS REPORT DATED JANUARY 9, 2020 BY BEAR ENGINEERING COMPANY
- 5. ANY EXISTING WELLS ENCOUNTERED SHALL BE ABANDONED AND SEALED PER CONTRA COSTA HEALTH DEPARTMENT.
- 6. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION SO THAT THEIR LINES CAN BE MARKED. THOSE TO BE NOTIFIED INCLUDE, BUT MAY NOT BE LIMITED TO:
- UNDERGROUND SERVICE ALERT (800) 227-2600 (NEW NUMBER) PG&E PACIFIC BELL, TCI, DELTA IRONHORSE SANITARY DISTRICT, AND THE CITY OF OAKLEY
- ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- 9. THE SURVEYOR SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF WHEN FIELD STAKING IS TO BE REQUIRED.
- 10. COMPACTION TESTS WILL BE PERFORMED ON ALL TRENCHES AND STREET WORK TO VERIFY THAT COMPACTION CONFORMS TO CITY STANDARDS. THE INITIAL TEST AND ONE RE-TEST WILL BE PERFORMED BY THE CITY (24 HOUR NOTICE REQUIRED). ALL ADDITIONAL TESTING WILL BE AT THE DEVELOPER'S/CONTRACTOR'S EXPENSE
- 11. ALL WORK ADJACENT TO EXISTING PAVEMENT SECTION SHALL BUTT UP TO FULL EXISTING SECTION. WHERE FULL SECTION IS NOT ENCOUNTERED, CONTINUE REMOVAL OF ADDITIONAL PAVEMENT UNTIL A FULL SECTION IS FOUND. SEE CITY STANDARD DETAIL ST-25
- 12. MONUMENTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE FINAL MAP IN ACCORDANCE WITH THE CITY STANDARD DETAILS AND SPECIFICATIONS.
- 13. THE STREET LIGHTS SHALL NOT BE INSTALLED UNTIL THE DEVELOPER HAS PROVIDED AN ACCEPTABLE STREET LIGHT WIRING PLAN SIGNED AND

Diablo Water District General Water Notes Page 2 of 4

horizontal feet of the pipeline being crossed.

- If crossing a sanitary sewer or storm drain pipeline or recycled water pipeline, a new water main shall be constructed no less than 45-degrees to and at least one foot above that pipeline. No connection joints shall be made in the water main within eight
- Special construction requirements for water mains: where a water main is to be located parallel to or cross a sanitary sewer or storm drain pipeline or recycled water pipeline with less that the required separation, the installation and materials shall conform to the State of California, Division of Drinking Water, California Regulations Related to Drinking Water, and shall be subject to the approval of the Division of Drinking Water.
- Maintain 5.0' minimum separation between water services and sanitary sewer laterals.
- 11. Public Fire hydrants shall have 1-4 1/2" & 2-2 1/2" outlets, and each hydrant shall be isolated from the main line by a 6" gate valve and shall receive two (2) coats of Rustoleum V7400 Safety Yellow.

Valve can lids for 6" fire hydrant shut-off valve shall be painted with Krylon Interior/Exterior Flat White - Blanco Mate #1502 as per fire department requirements.

- Use Mueller streamline PVC coated copper for service line and ARV piping.
- Contractor shall install curb stops and meter boxes acceptable to Diablo Water District at each lot immediately prior to jumper being removed. At the expense of the Developer/Contractor, pad locks will be installed by Diablo Water District at each
- Use 304 stainless steel nuts and bolts for all bolt-ups as well as gate valve bonnets and stuffing box nuts and bolts. Bolts shall be marked 'F-593C' or 'F-593D' only. Heads with two slash marks are not to be used.
- 15. The Contractor shall maintain water service to all residences at all times during construction.
- No work shall commence until all submittals have been approved.
- 17. Thrust blocks (or other pipe joint restraints) shall be provided at all angle points on the water system. Thrust blocks for treated water pipelines (W) shall be per the DWD
- 18. Work hours shall be Monday through Friday 8:00 a.m. to 4:30 p.m. except for District observed holidays. Any requests for working outside these times must be submitted to the District inspector at least 48 hours in advance. It is recommended that requests

Updated June 2019

Diablo Water District General Water Notes Page 3 of 4

- for Saturday work be made by the close of business the Wednesday prior. Requests for Saturday work may be approved or denied depending on inspector availability. A request for work during a District holiday shall not be permitted.
- 19. All joint trench utilities shall cross underneath all water facilities. If these criteria cannot be met, the Developer/Contractor shall install a red concrete cap over the joint trench facilities.
- 20. All Butterfly Valves (BFVs) shall be epoxy lined and coated. Lining shall be certified by the factory to be holiday free.
- All hot taps shall be performed by Tap Master, Inc. of Concord, California, phone: 925-439-7975. Tapping sleeve shall be stainless steel type JCM 432, no equal.
- No trees shall be planted, or light/utility poles installed within 10' of any water mains, fire services, or fire hydrant laterals. Measurement shall be taken as the clear distance between the root ball and water main.
- 23. All locator wires shall be tested, and test results shall be included in the Cathodic Protection Test Report.
- All water meters shall be provided with a 520M-FlexNet MTX Unit. Meter boxes for meters less than 1-1/2 inch in size shall have Christy B12P001-F (FlexNet) lids. All meter box lids shall have drilled holes for FlexNet 520M Units.
- 25. Water Meters 5/8" in size shall be Sensus 5/8" x 3/4" SRII Low Lead, 1 cubic foot, labeled 5/8" x 3/4". Water Meters 1" in size shall be Sensus 1" SRII Low Lead, 1 cubic foot. Flow meters 1-1/2" through 4" in size shall be Sensus OMNI C2. compound meters (cubic feet).
- JDH Corrosion Consultants, Inc., 1100 Willow Pass Court, Concord, CA, 925-927-6630, shall conduct all final cathodic protection test reports at the expense of the Developer/Contractor.
- 27. Install a ball shut-off valve and box on customer's side after backflow device for new construction as required by the City of Oakley's specifications.
- 28. The Developer/Contractor shall provide the Global Positioning System (GPS) coordinates of all buried fittings (excluding saddles and corporation stops) and all above ground facilities as determined by the District in a shapefile data format as defined by ESRI. GPS coordinates of existing water facilities that are exposed during any construction activity shall also be provided. All GPS coordinates shall be to within an accuracy of ten (10) centimeters and shall include Latitude, Longitude and Elevation.

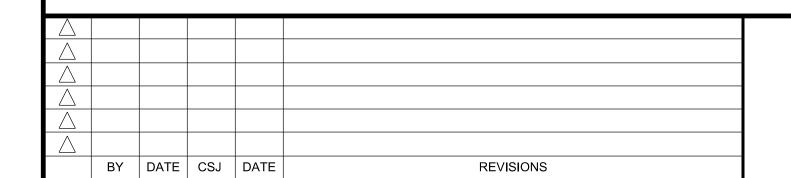
Updated June 2019

Diablo Water District General Water Notes

Page 4 of 4

- 29. The Contractor shall re-chlorinate and retest any lines that do not pass the first or subsequent round of bacteriological testing or as directed by Diablo Water District.
- 30. All materials and products shall be NSF 61 certified that are in contact with and potentially in contact with potable water, including surfaces within the air space of the
- 31. Contractors using their water meter for the temporary jumper, must have yearly calibration tests performed and shall submit the report to the District.

Updated June 2019









None

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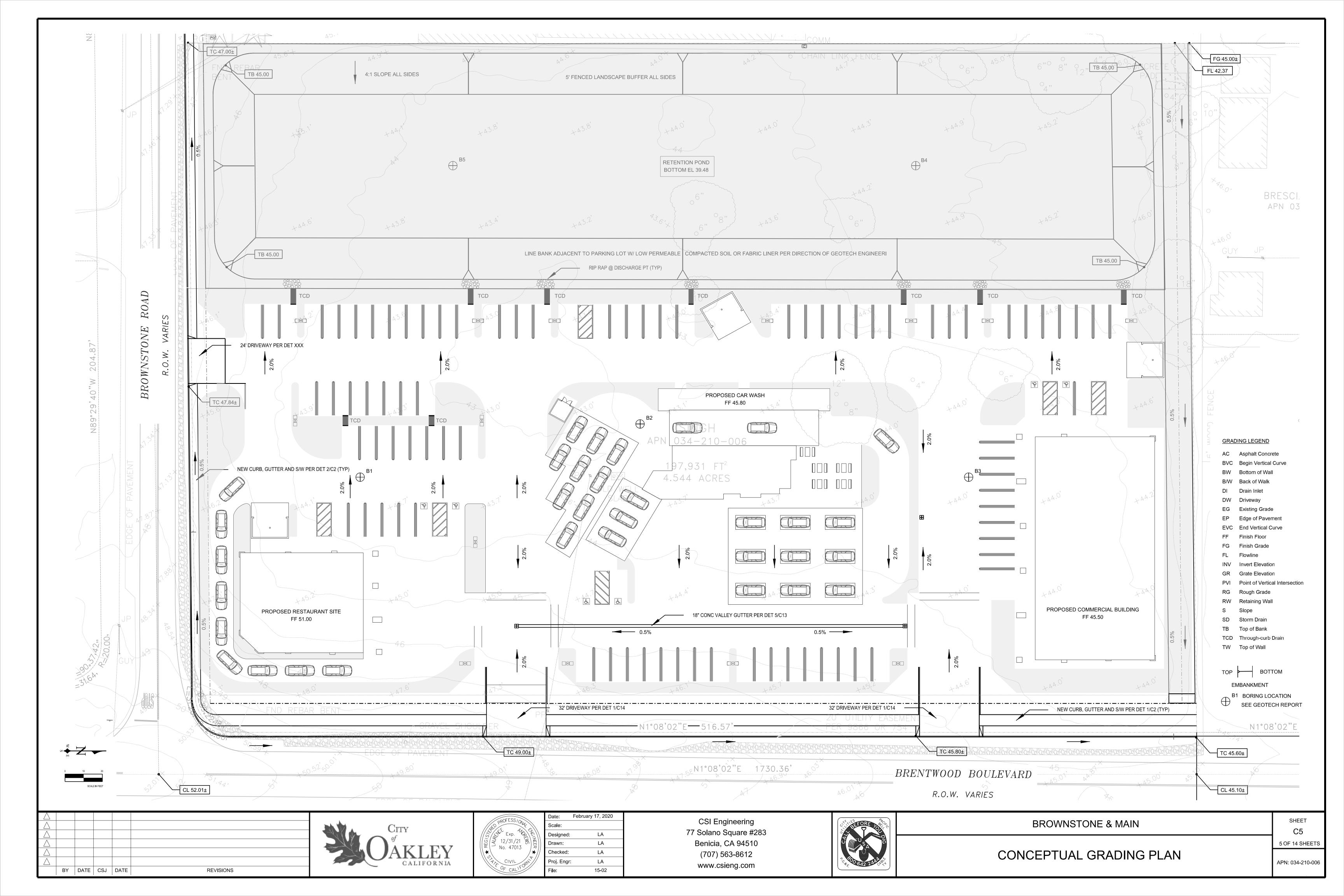
CSI Engineering 77 Solano Square #283 Benicia, CA 94510 (707) 563-8612 www.csieng.com

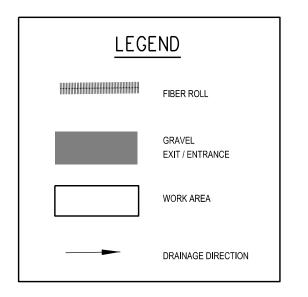


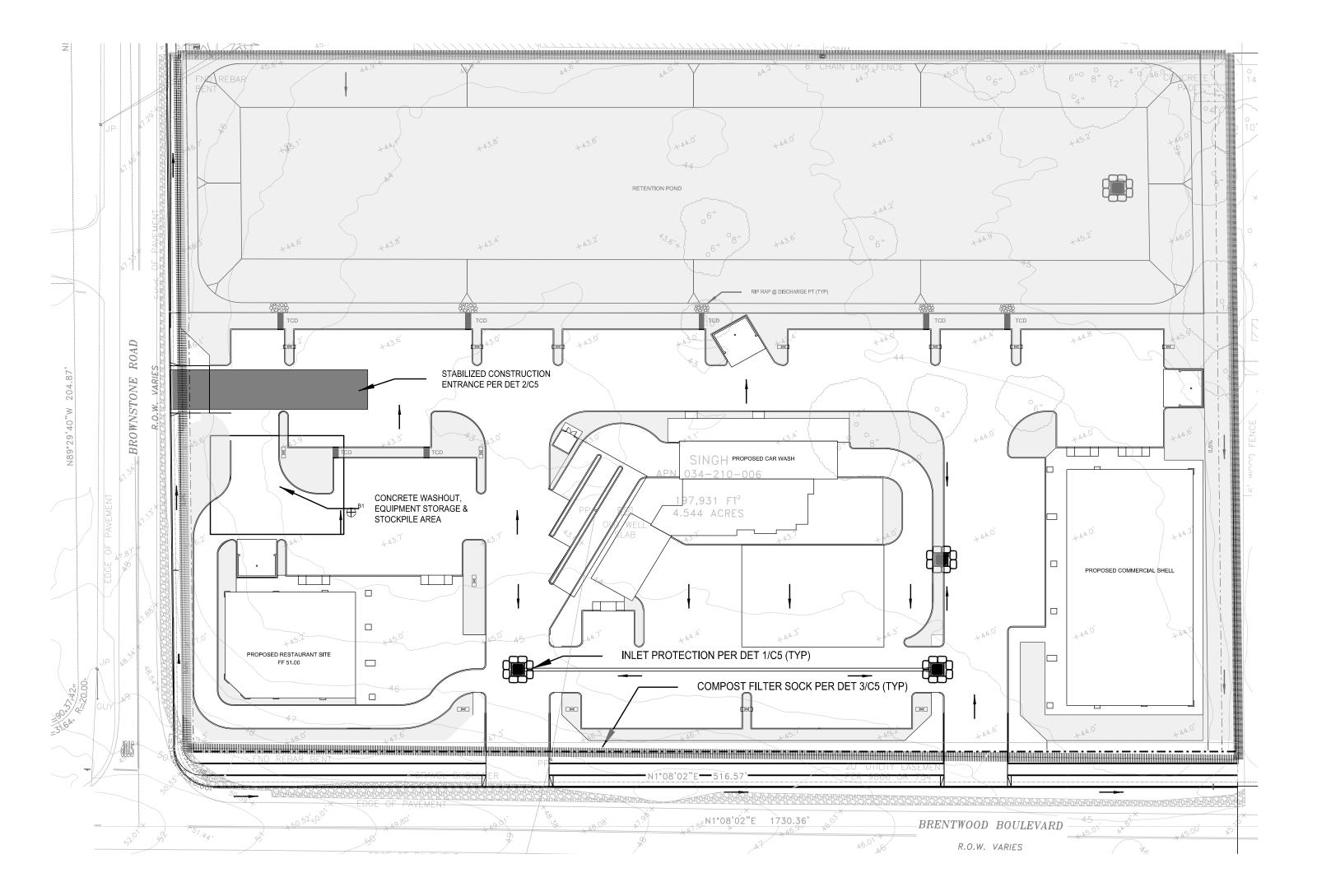


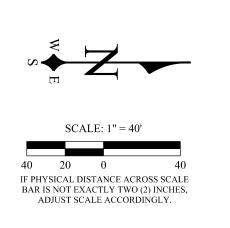
SHEET C4 **4 OF 14 SHEETS**

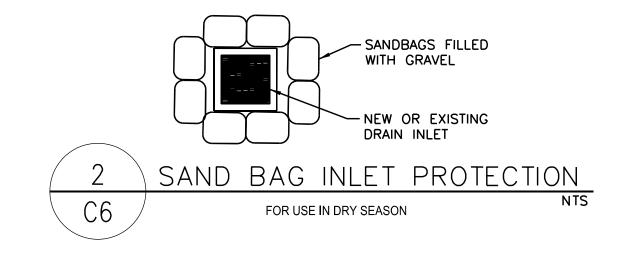
WATER SYSTEM NOTES

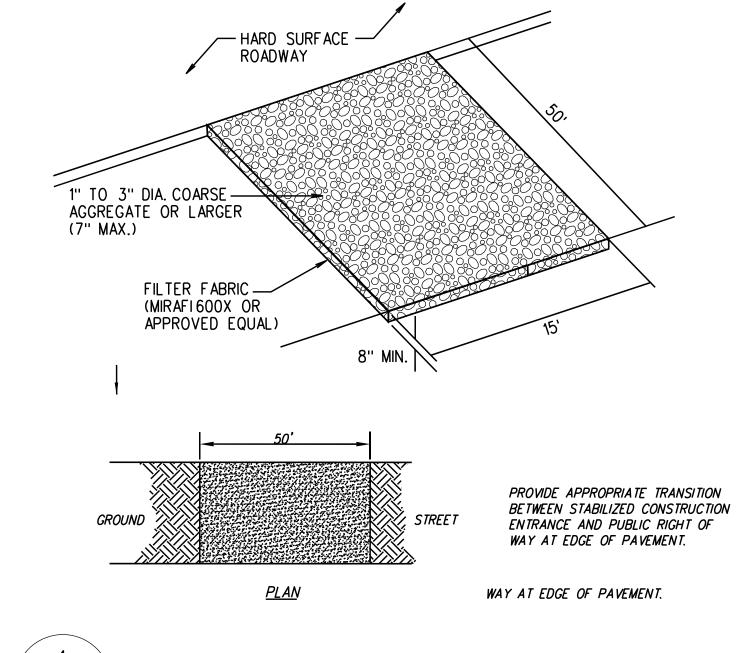








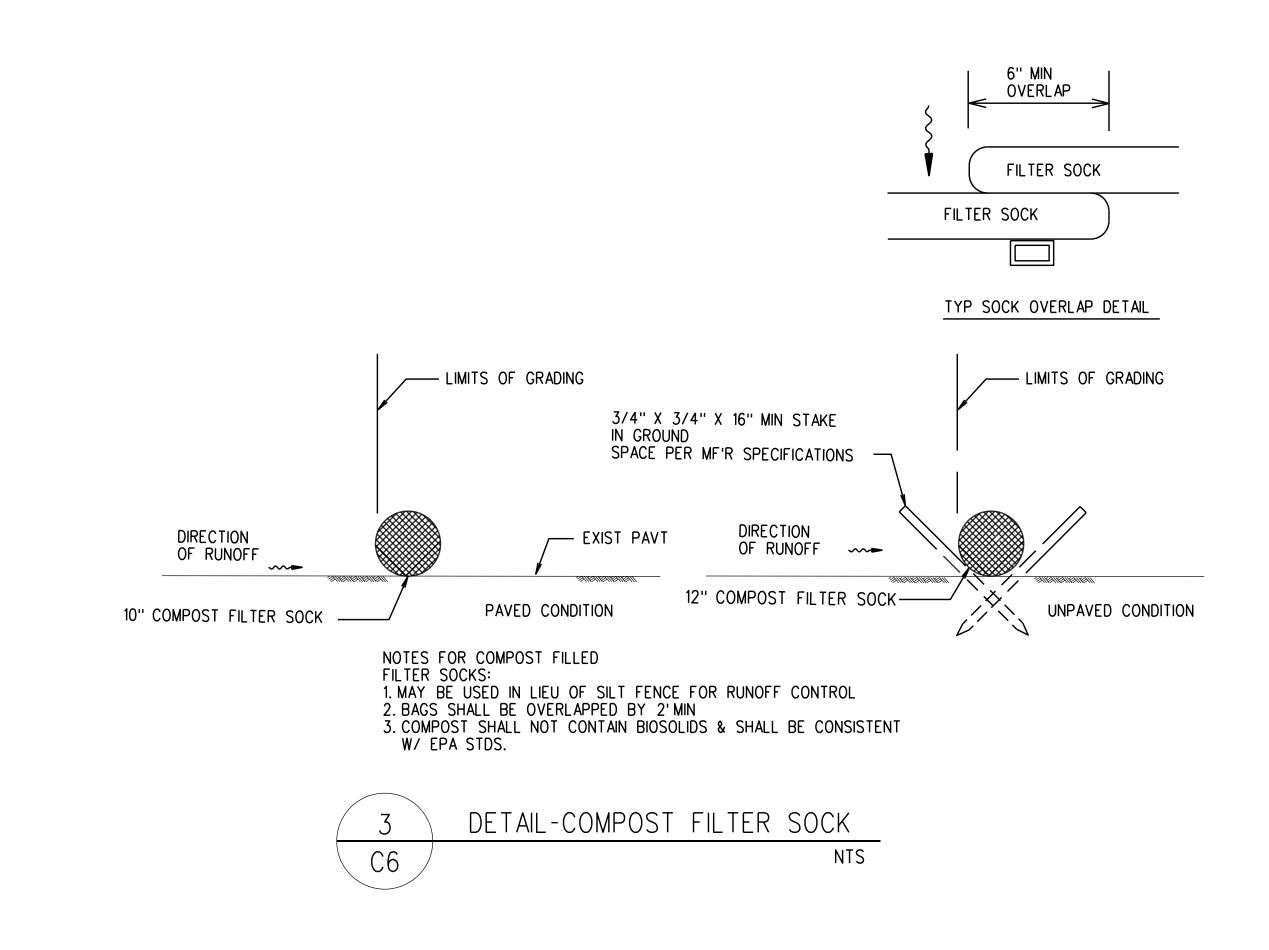




1 STABILIZED CONSTRUCTION ENTRANCE
C6 NTS

EROSION CONTROL NOTES

- 1. TEMPORARY EROSION CONTROL DEVICES SHOWN HEREON, WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALSO, STREETS SHALL BE CLEANED DAILY.
- 3. AFTER SEWER AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS—FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OR A CROWNED STREET.
- 4. EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY.
- 5. ALL DEBRIS AND SILT SHALL BE REMOVED WITHIN TWENTY-FOUR (24) HOURS AFTER EACH STORM IN ALL BASINS.
- 6. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH APPROVAL OF OR AT THE DIRECTION OF THE AGENT FOR THE RESPONSIBLE PARTY.
- 7. ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT SEDIMENT LADEN RUNOFF DOES NOT ENTER THE STORM DRAINAGE SYSTEM ALL YEAR.
- 8. AS STORM DRAIN IMPROVEMENTS ARE CONSTRUCTED, ALL STRUCTURES AND INLET PIPES SHALL BE PROTECTED FROM INFLOW OR SILT BY SILT BAGS AND SAND BAGS PER DETAILS.
- ONTRACTOR SHALL HAVE TOOLS, EQUIPMENT, AND MATERIALS TO PROVIDE EROSION CONTROL MEASURE MADE NECESSARY BY A CONSTRUCTION OPERATION ON THE JOB SITE BEFORE BEGINNING THAT OPERATION.
- 10. ADJACENT PROPERTIES SHALL BE PROTECTED FROM STORM WATERS, MUD, SILT, ETC. ON A DAILY BASIS.
- 11. DUST CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON—SITE, SHALL PREVENT THE FORMATION OF ANY AIRBORNE NUISANCE BY WATERING AND OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTOR'S ACTIVITIES IN PERFORMING THE WORK UNDER HIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCE. DUST CONTROL WILL BE PERFORMED ON A DAILY BASIS.



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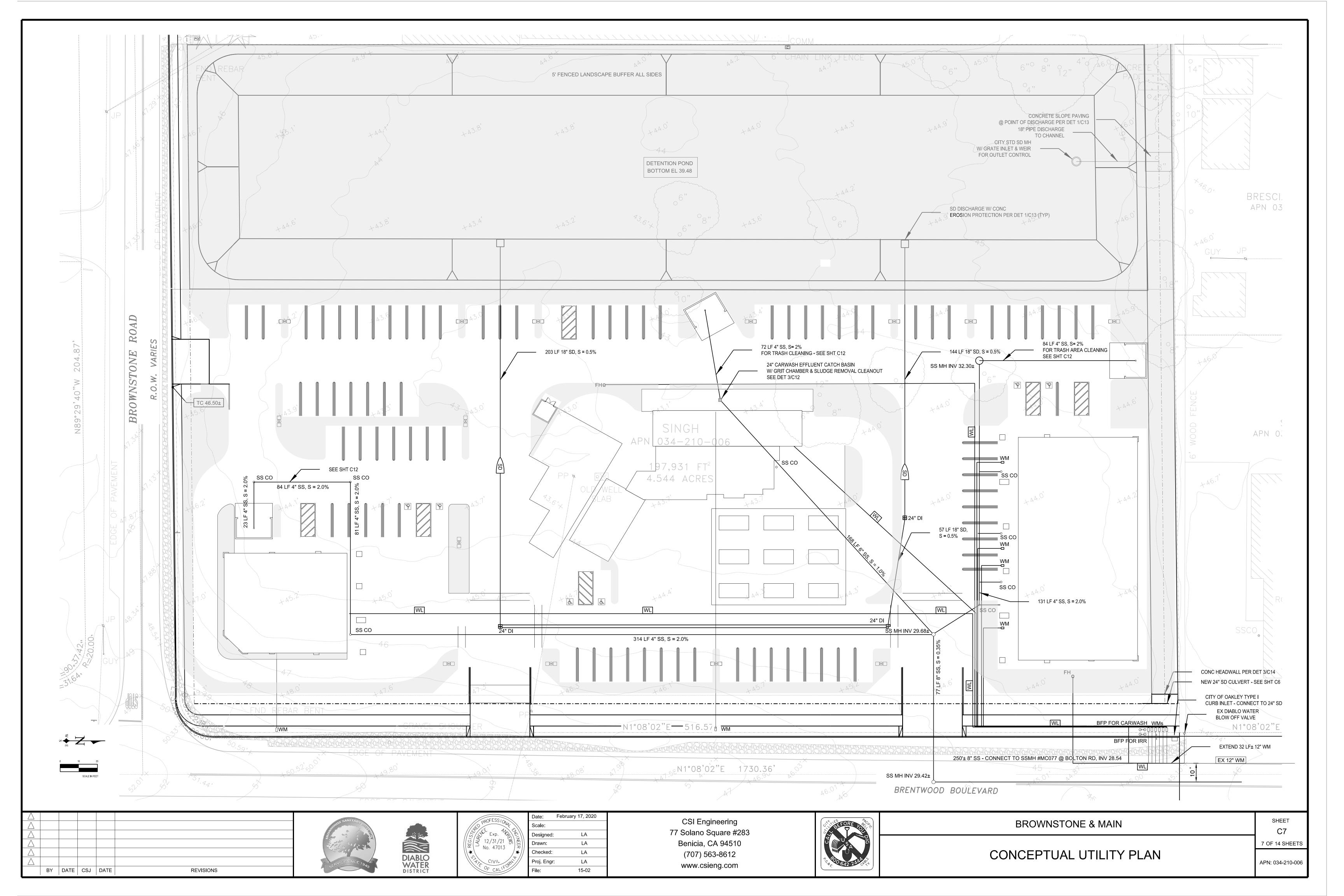
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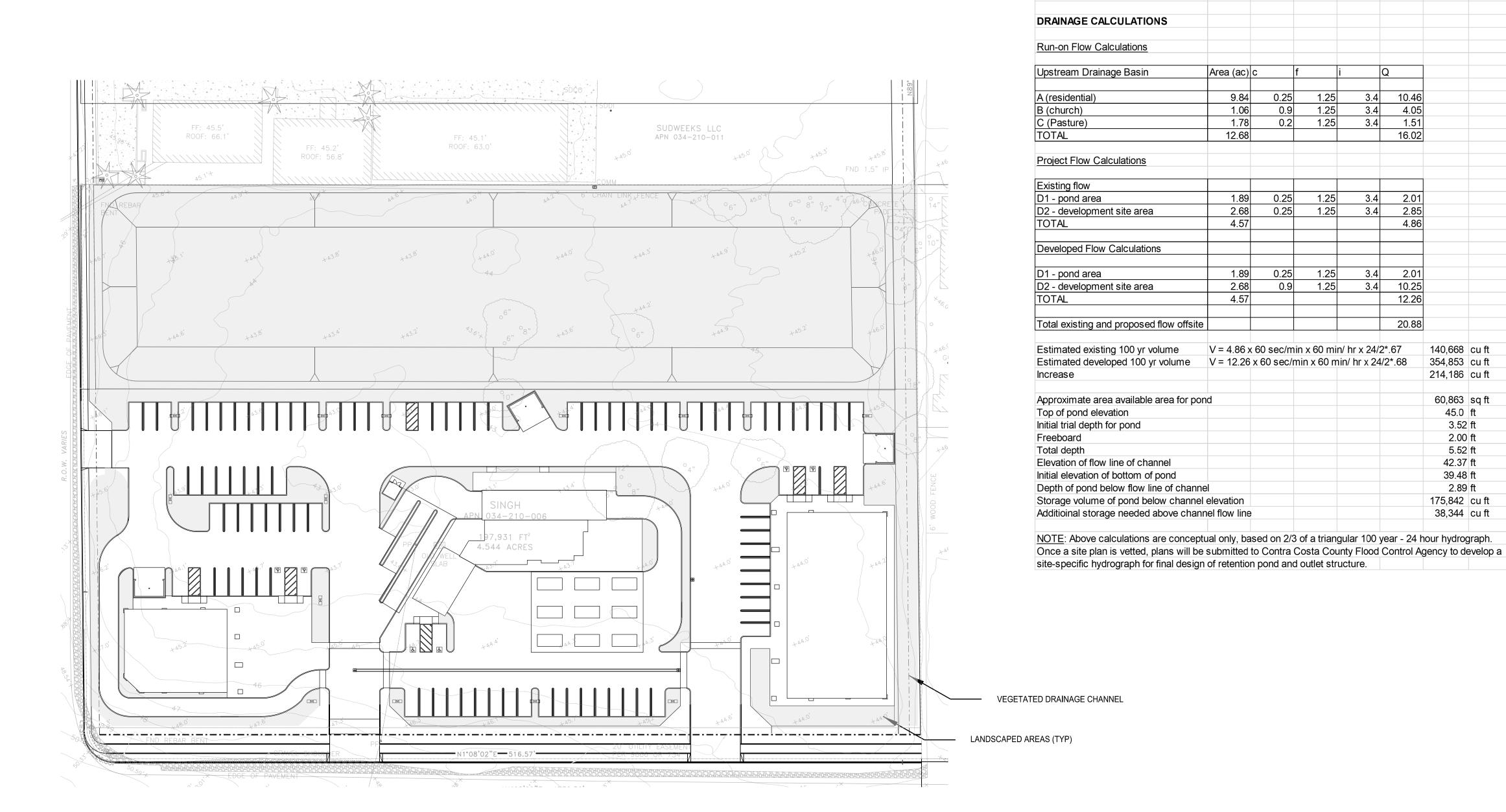


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6 OF 14 SHEETS

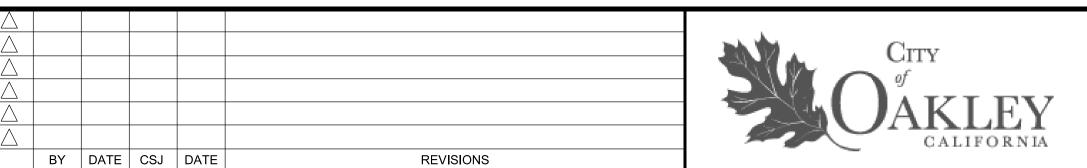
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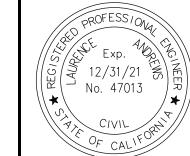


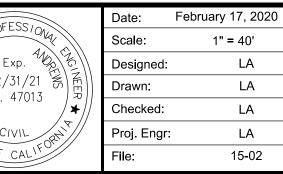




IF PHYSICAL DISTANCE ACROSS SCALE ADJUST SCALE ACCORDINGLY.









BROWNSTONE & MAIN



3.4 4.05

3.4 10.25

12.26

140,668 cu ft 354,853 cu ft

214,186 cu ft

60,863 sq ft

45.0 ft

3.52 ft

2.00 ft

5.52 ft

42.37 ft

39.48 ft

2.89 ft

175,842 cu ft

38,344 cu ft

16.02

3.4

1.25

EXISTING IMPERVIOUS SURFACES LOCATION AREA (SF) NEW IMPERVIOUS SURFACES LOCATION

BROWNSTONE & MAIN, OAKLEY, CA

STORM RUNOFF TABULATION

EXISTING PERVIOUS SURF	ACES	
LOCATION		
SITE		198,025.78

17,314.00

103,714.00

PROPOSED PERVIOUS SU	JRFACES	
LANDSCAPE AREAS		4,440.00
POND		87,471.00
CHANNEL		4,942.00
TOTAL		96,853.00

NET INCREASE IN IMPERVIOUS SURFACES	96,853.0
MINIMUM TREATMENT REQUIRED (4%)	3,874.
ACTUAL TREATMENT PROVIDED	92,413.0

TREATMENT METHOD: DETENTION POND AND VEGETATED CHANNEL

WATER POLLUTION AND GOOD HOUSEKEEPING NOTES

MATERIALS POLLUTION PREVENTION PLAN.

METAL STUDS

HARDSCAPE BUILDINGS

A. APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY.

PETROLEUM BASED PRODUCTS CONCRETE DETERGENTS CLEANING SOLVENTS PAINTS (ENAMEL AND LATEX)

B. MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANMCE TO STORM WATER RUNOFF. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT AS IS REQUIRED TO DO THE JOB.

MASONRY BLOCK

C. ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS.

D. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

E. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTUREER.

F. WHENEVER POSSIBLE, A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.

G. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.

H. THE CONTRACTOR SHALL CONDUCT INSPECTIONS TO ENDURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

2. ONSITE AND OFFISTE PRODUCTS SPECIFIC PLAN

A. THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

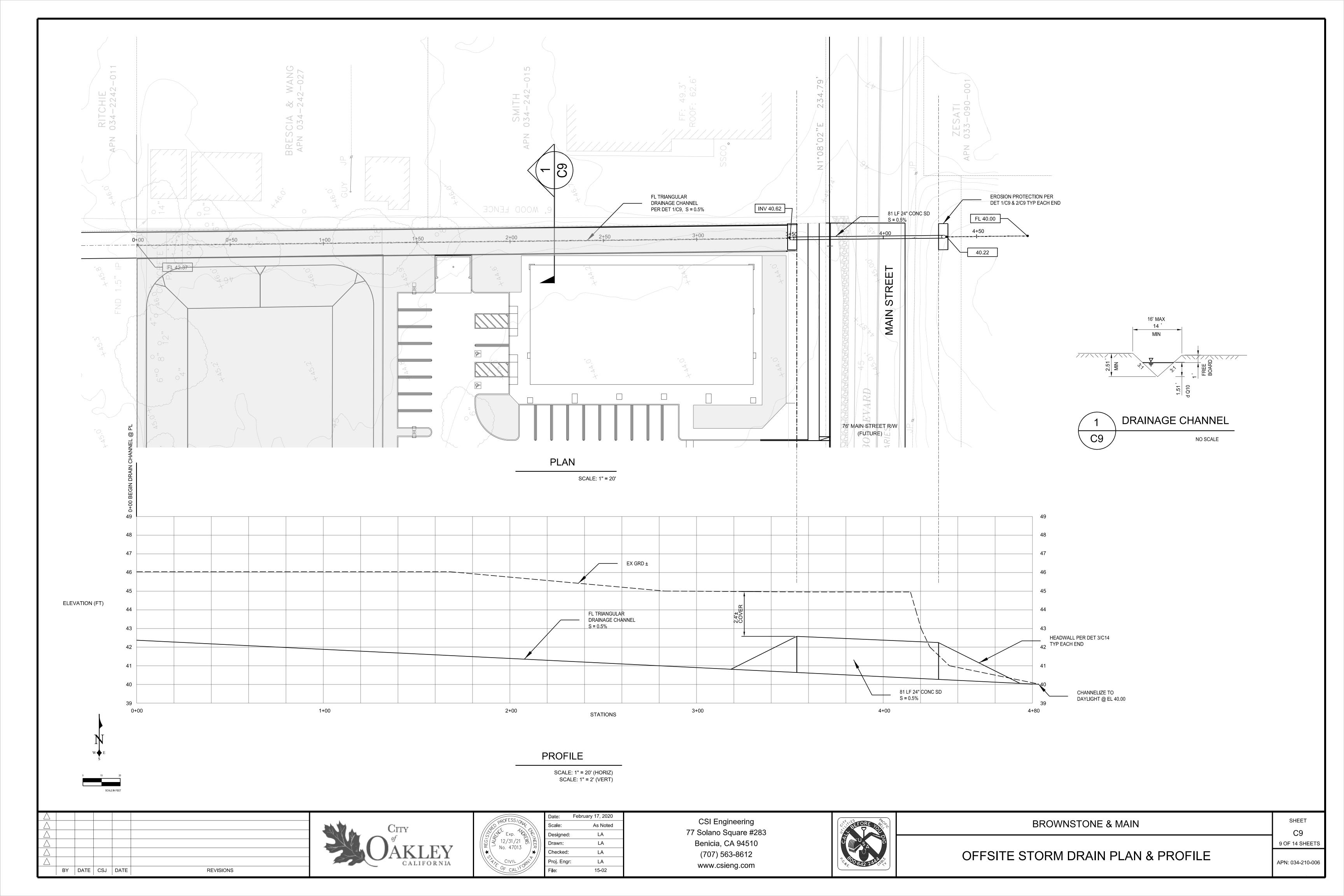
> 1) PETROLEUM BASED PRODUCTS: ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATUVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCE USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.

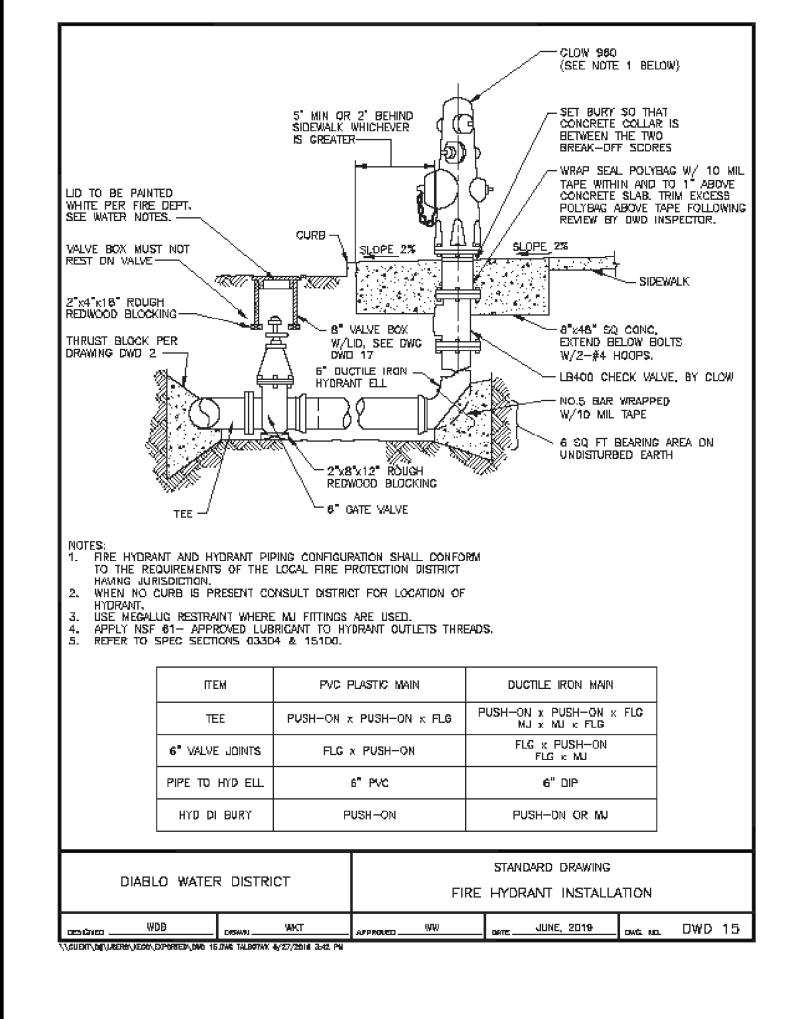
> 2) PAINTS: ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE CITY DARAINAGE SUSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURE'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS

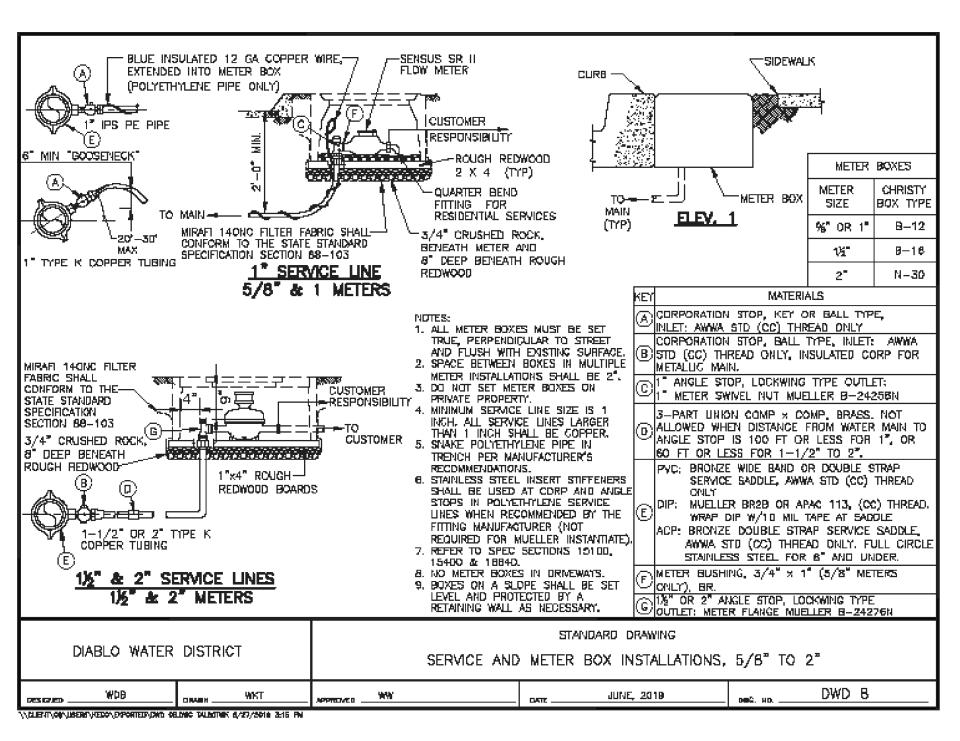
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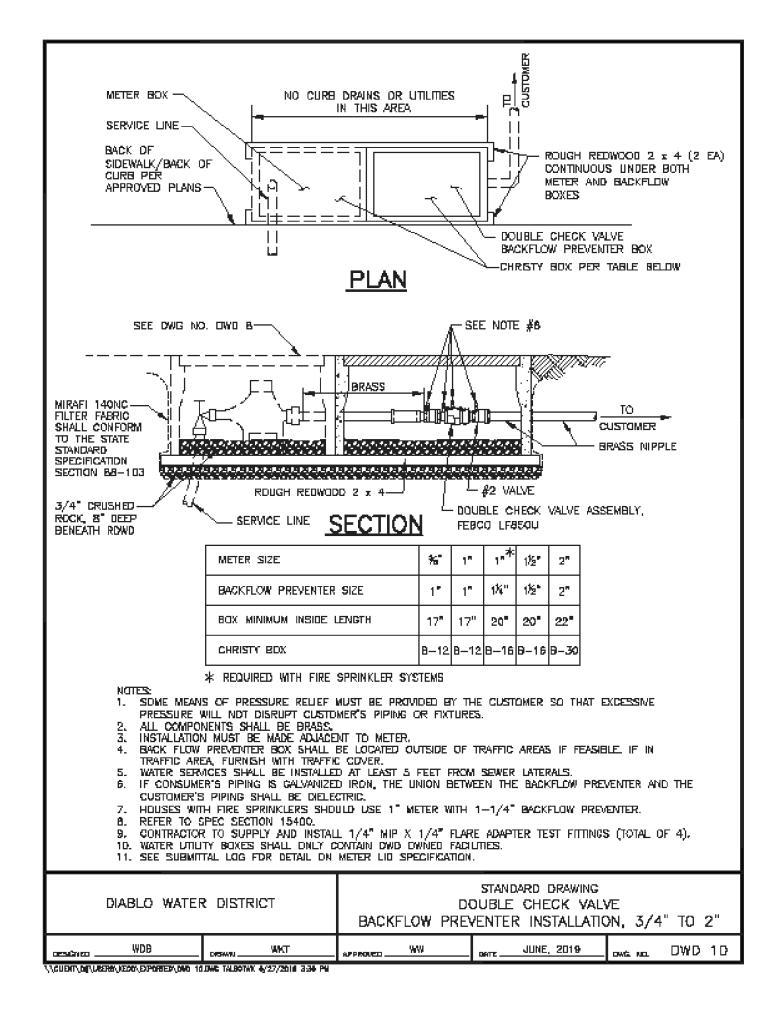
SHEET C8 8 OF 14 SHEETS

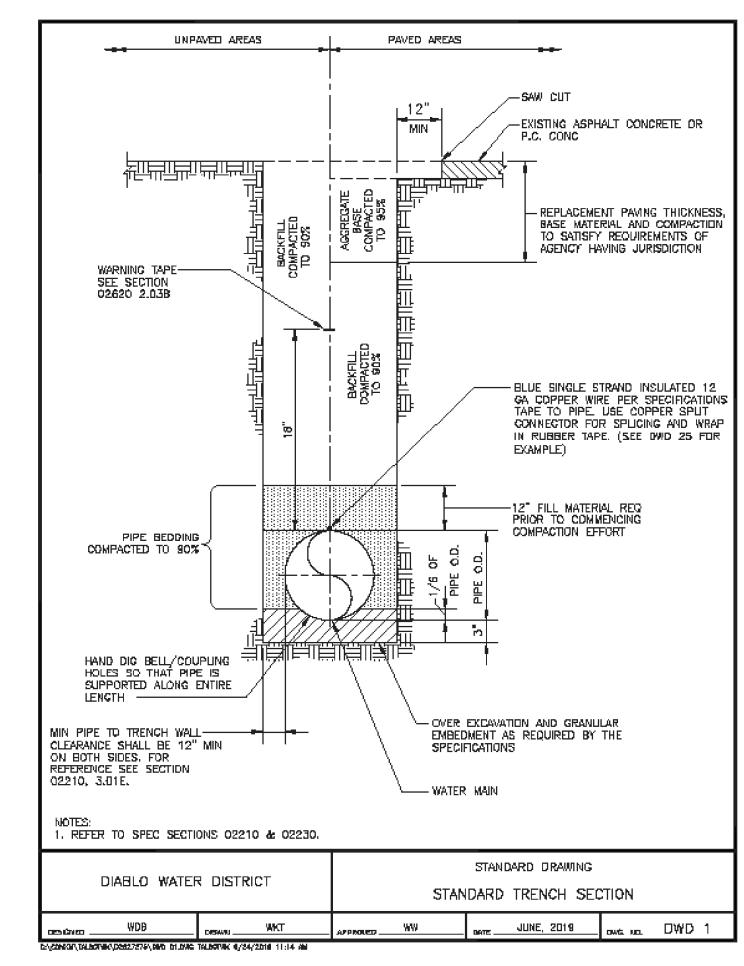
CONCEPTUAL STORM WATER PLAN



















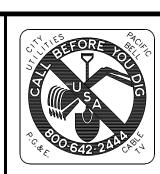
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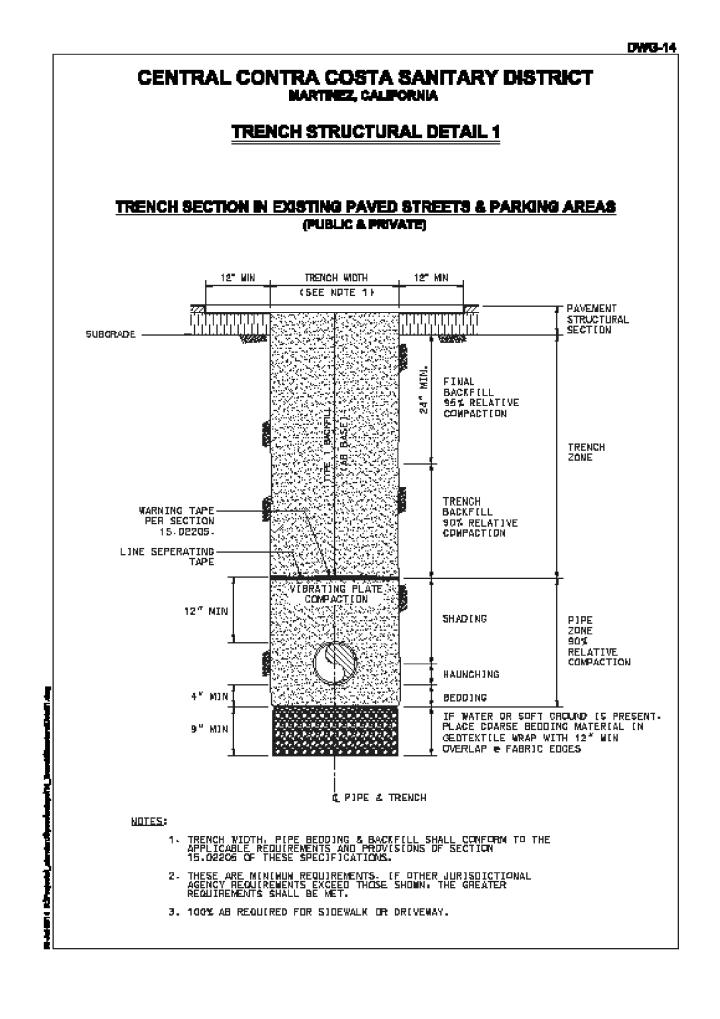


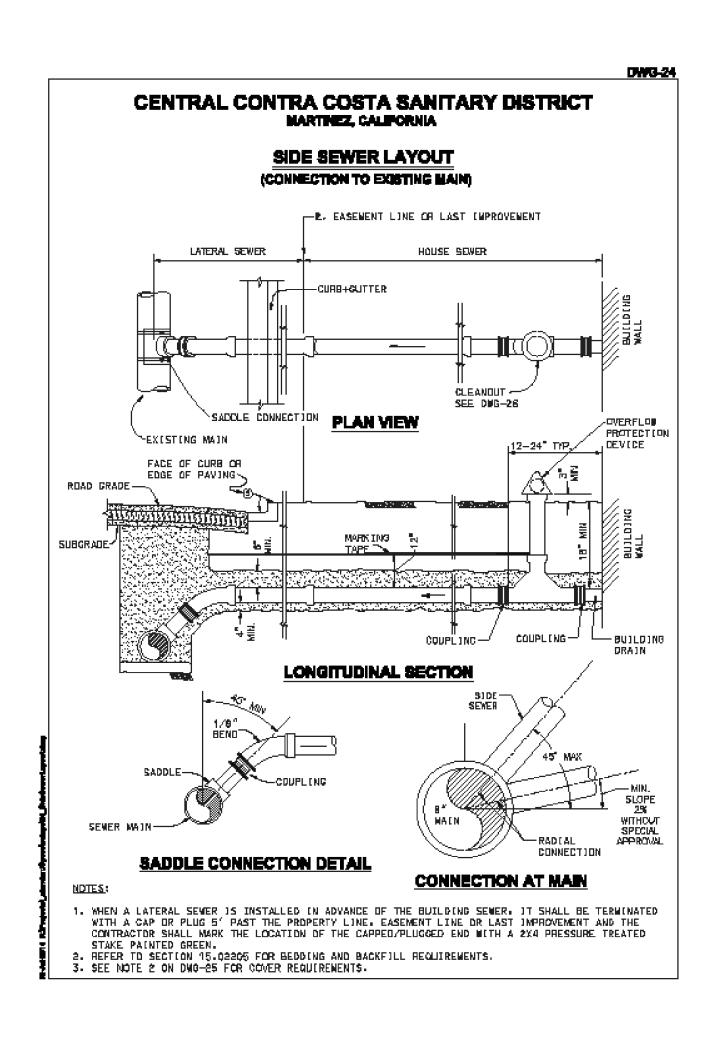
WATER SYSTEM DETAILS	

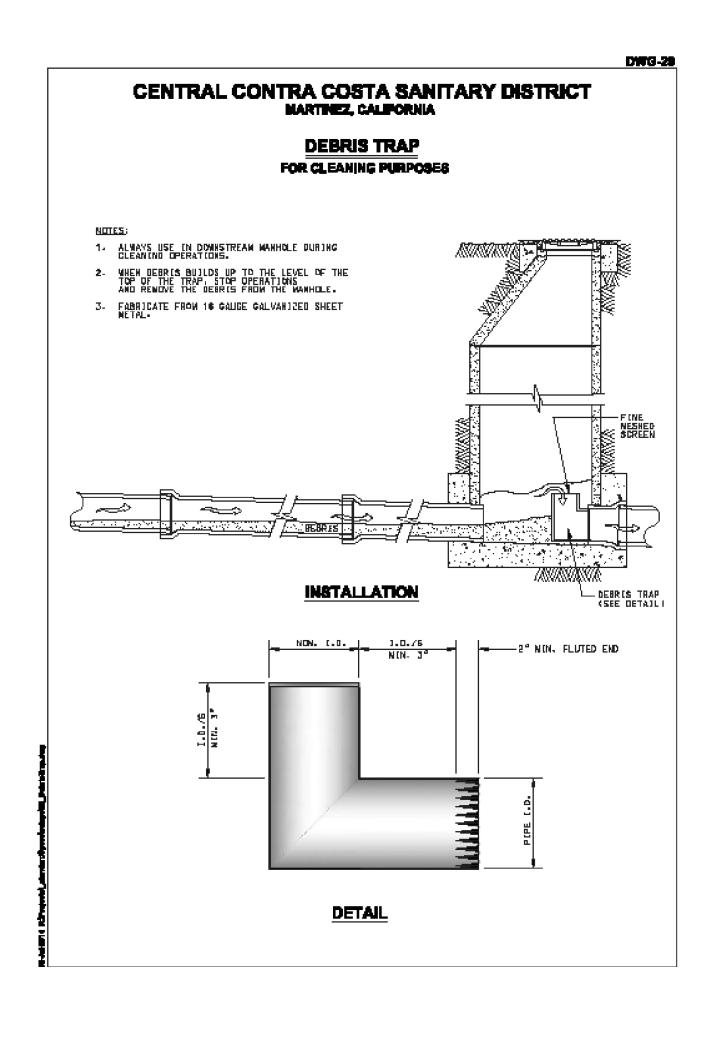
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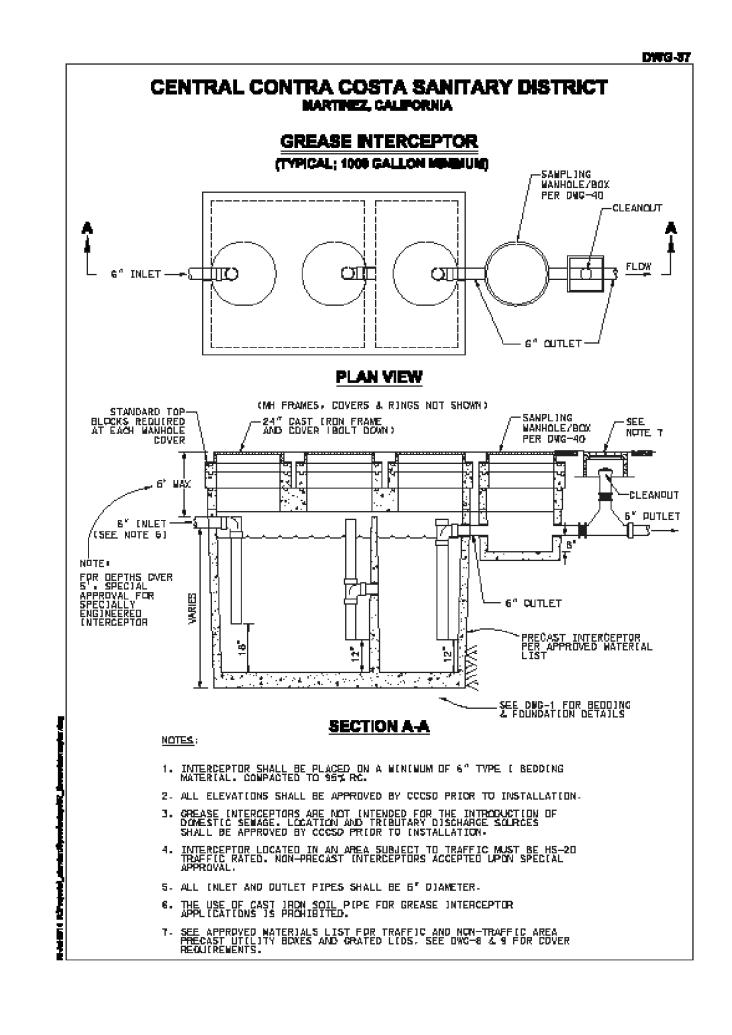
C10 10 OF 14 SHEETS APN: 034-210-006

SHEET









1 SEWER TRENCH DETAIL

C11 NTS

2 TYPICAL SEWER SERVICE LATERAL NTS

3 CARWASH DEBRIS TRAP
C11 NTS

4 TYPICAL GREASE INTERCEPTOR
C11 NTS

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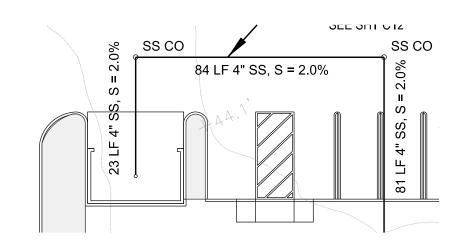
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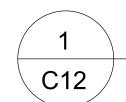




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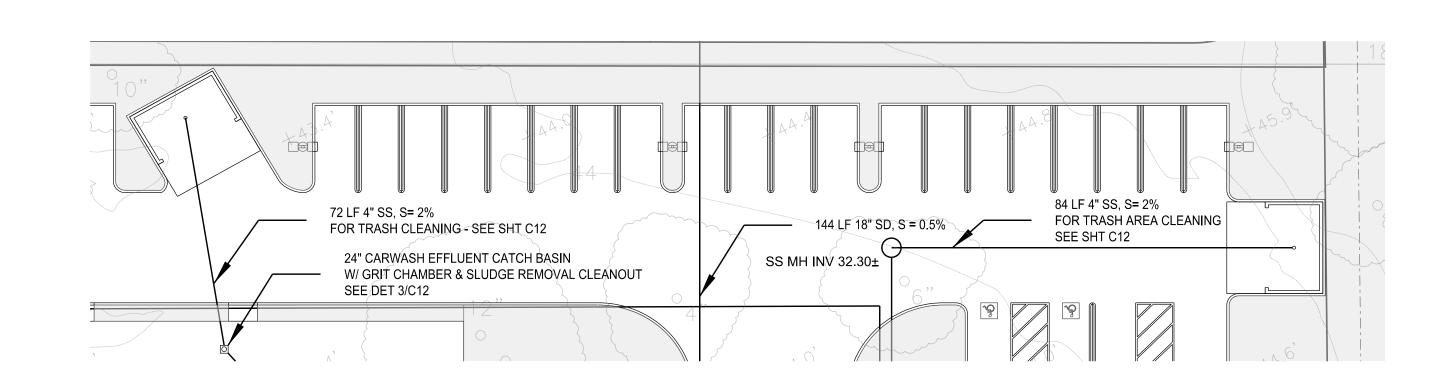
SEWER DETAILS



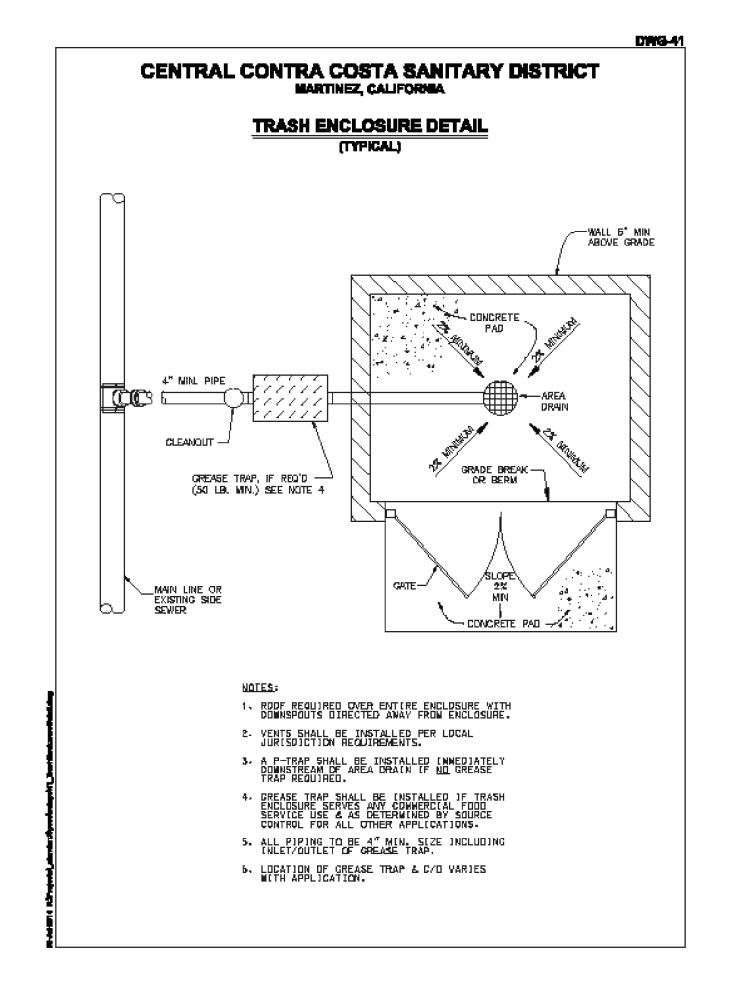


RESTAURANT TRASH ENCLOSURE

SCALE: 1" = 20'





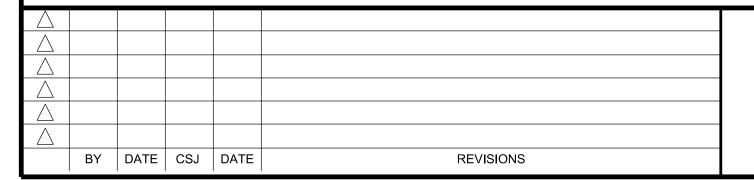


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SEWER FOR TRASH ENCLOSURE

NTS









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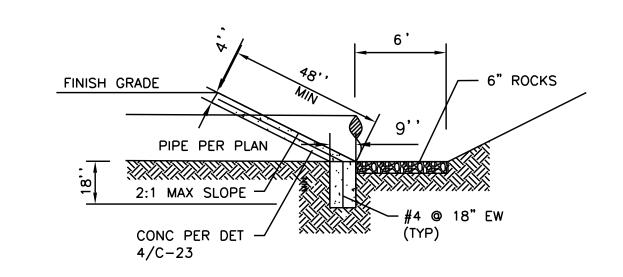
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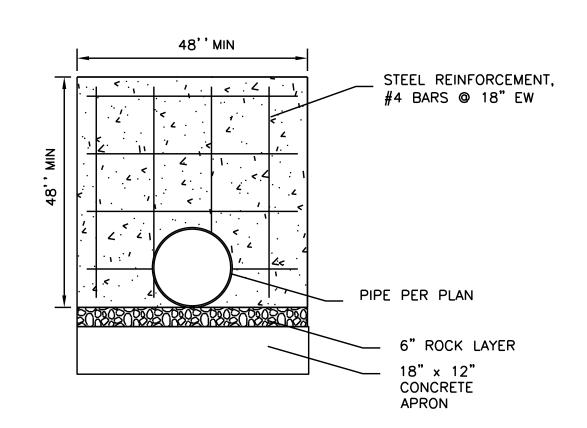
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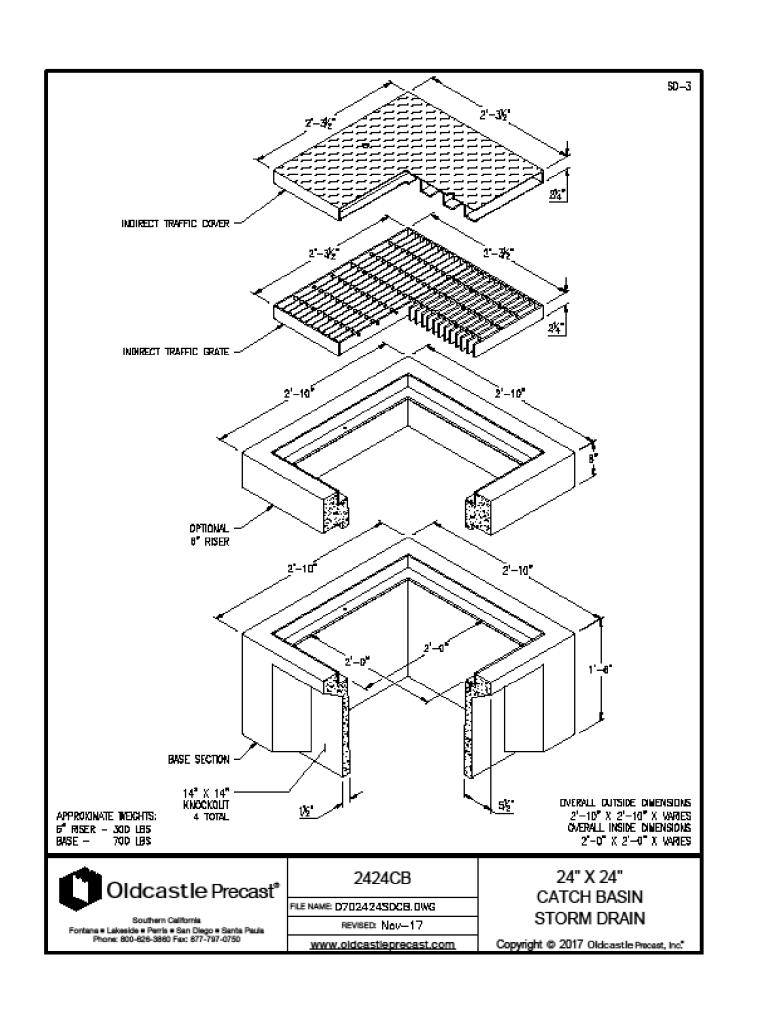
TRASH ENCLOSURE SEWER DETAILS

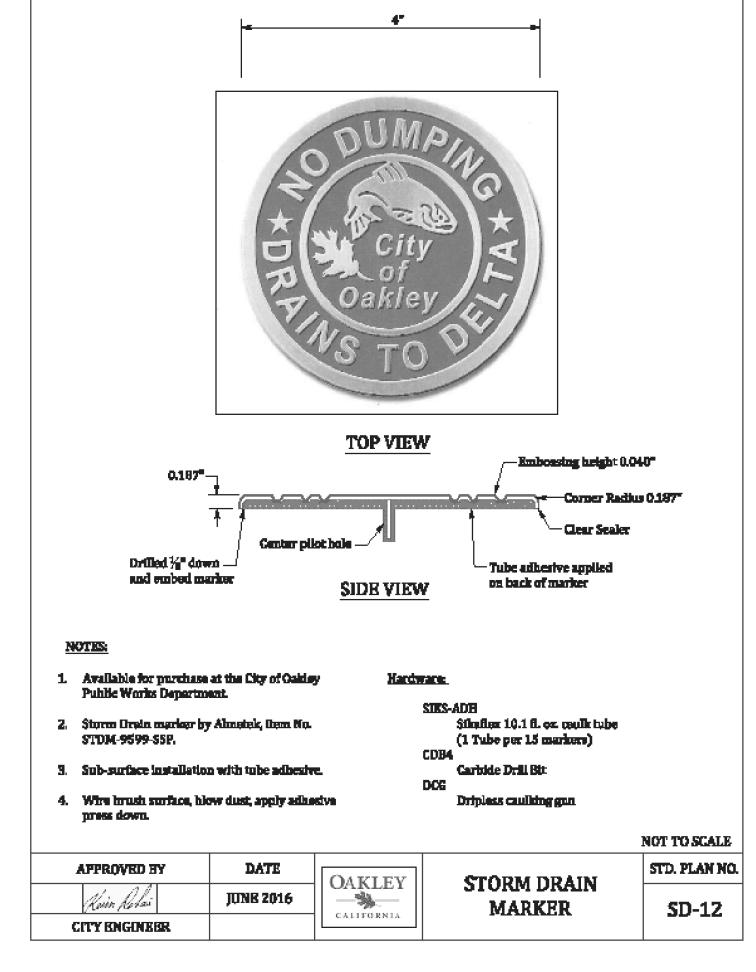


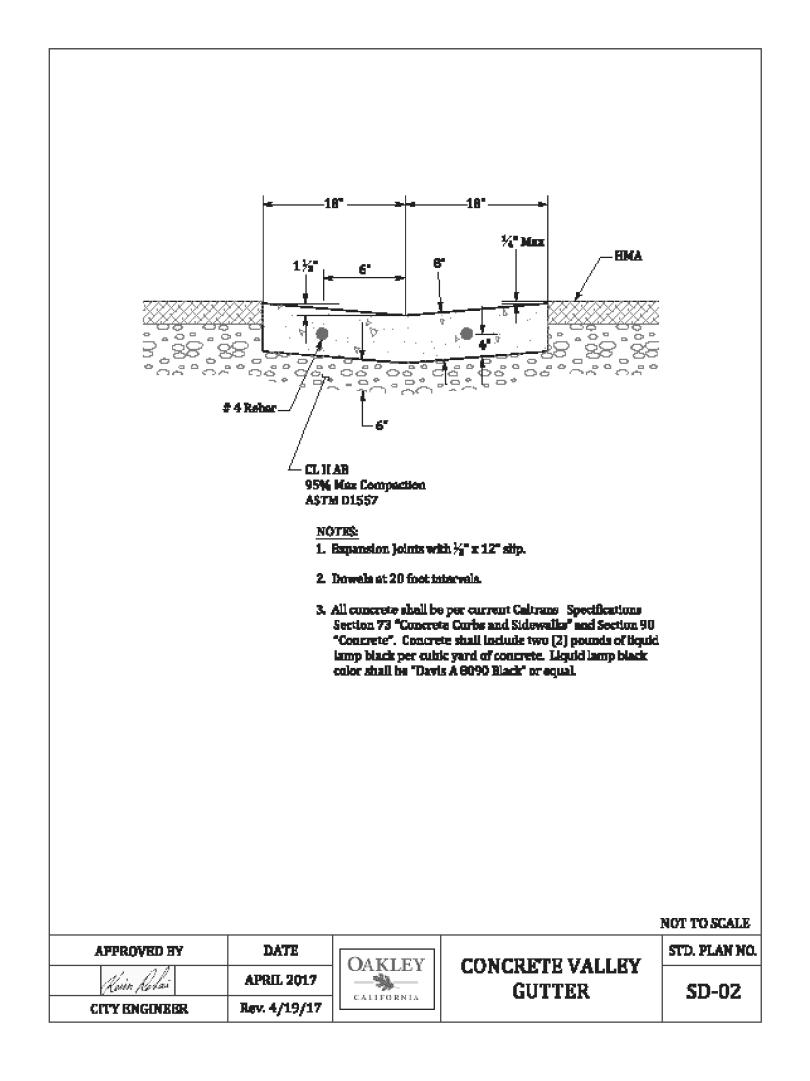












3 24" DRAIN INLET

C13 NOT TO SCALE

4 MEDALLION NTS

TYPICAL VALLEY GUTTER
NTS

2	LA	12/18/19			DDED NEW SHEET	
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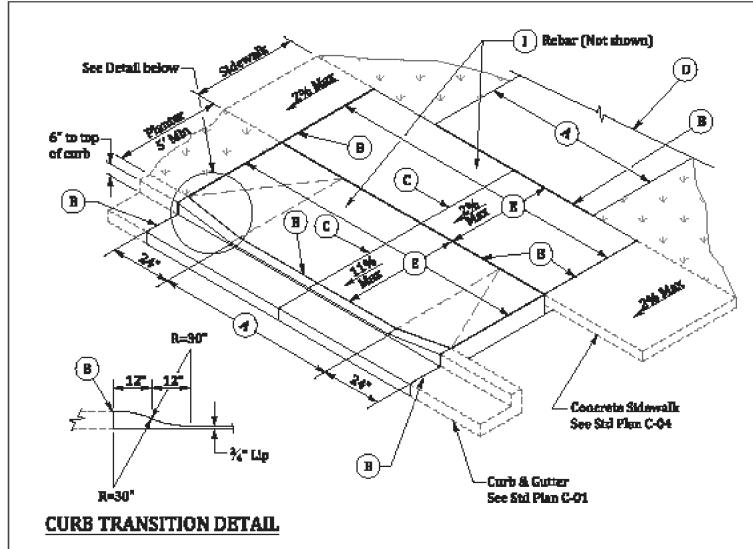
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BROWNSTONE & MAIN

C13
13 OF 14 SHEETS
APN: 034-210-006

SHEET

STORM DRAINAGE DETAILS



NOTES

A Equals width of Driveway at property line, 14' Min - 30' Max for Residential & 25' Min - 35' Max for Commercial.

B 1/2" wide full depth Expansion joint.

 (\overline{c}) Pall depth Expension joint if (\overline{A}) to 15 or greater.

 $(\overline{\mathfrak{g}})$ Delveway to be surfaced with asphalt or concrete.

(E) Detvewey concrete shall be a Minimum of 6" thick for Residential & 8" thick for Commercial Incations and is to be placed on a minimum of 4" Class II Aggregate Base 95% maximum compaction, ASTM D1557. Over 95% compacted subgrade.

(F) All concrete shall be per current Caltrene Specifications Section 73 "Concrete Curbe and Sidewalks" and Section 90 "Concrete". Concrete shall include two (Z) pounds of liquid lamp black per cubic yard of concrete. Liquid lamp black color shall be "Davis A 8090 Black" or equal.

 (\mathbf{G}) Sewept and remove 18° minimum street section for driveway installation in existing streets.

(ii) All work shall conform to current ADA requirements.

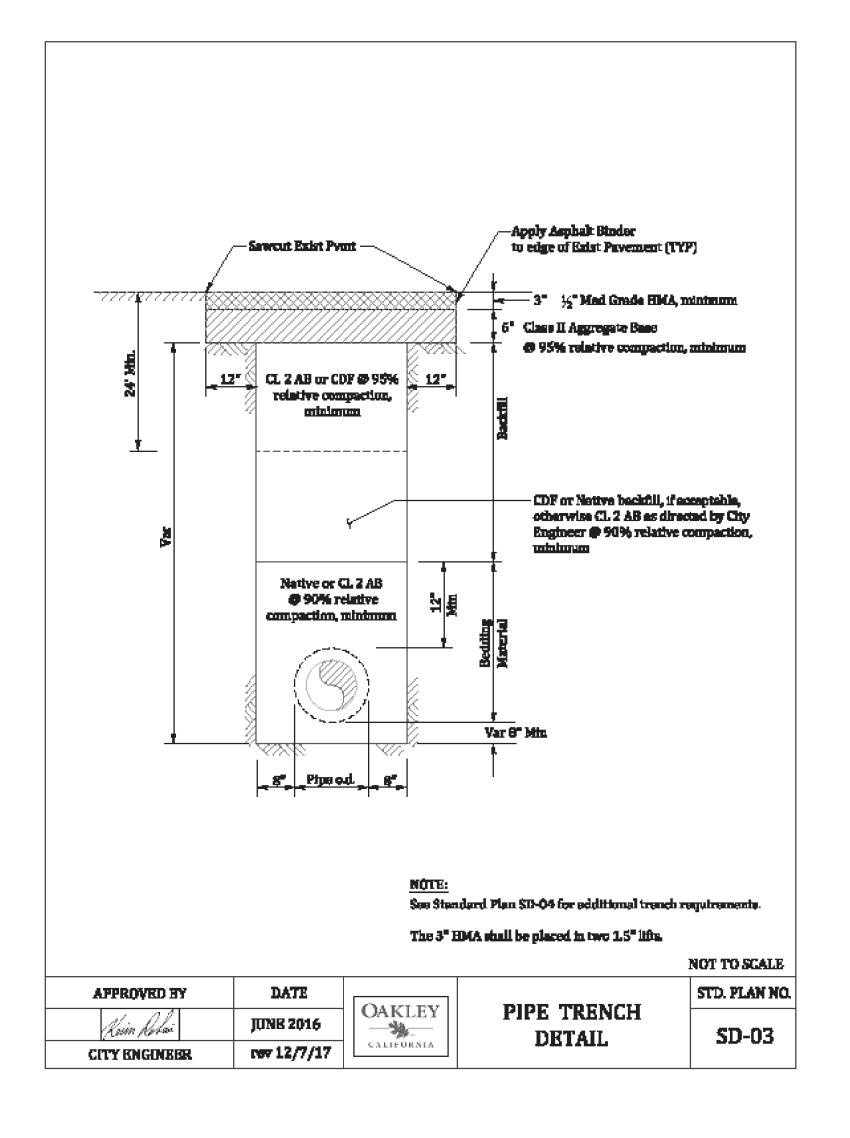
(I) #4 Rebar 16" O.C. both ways minimum 3" cover.

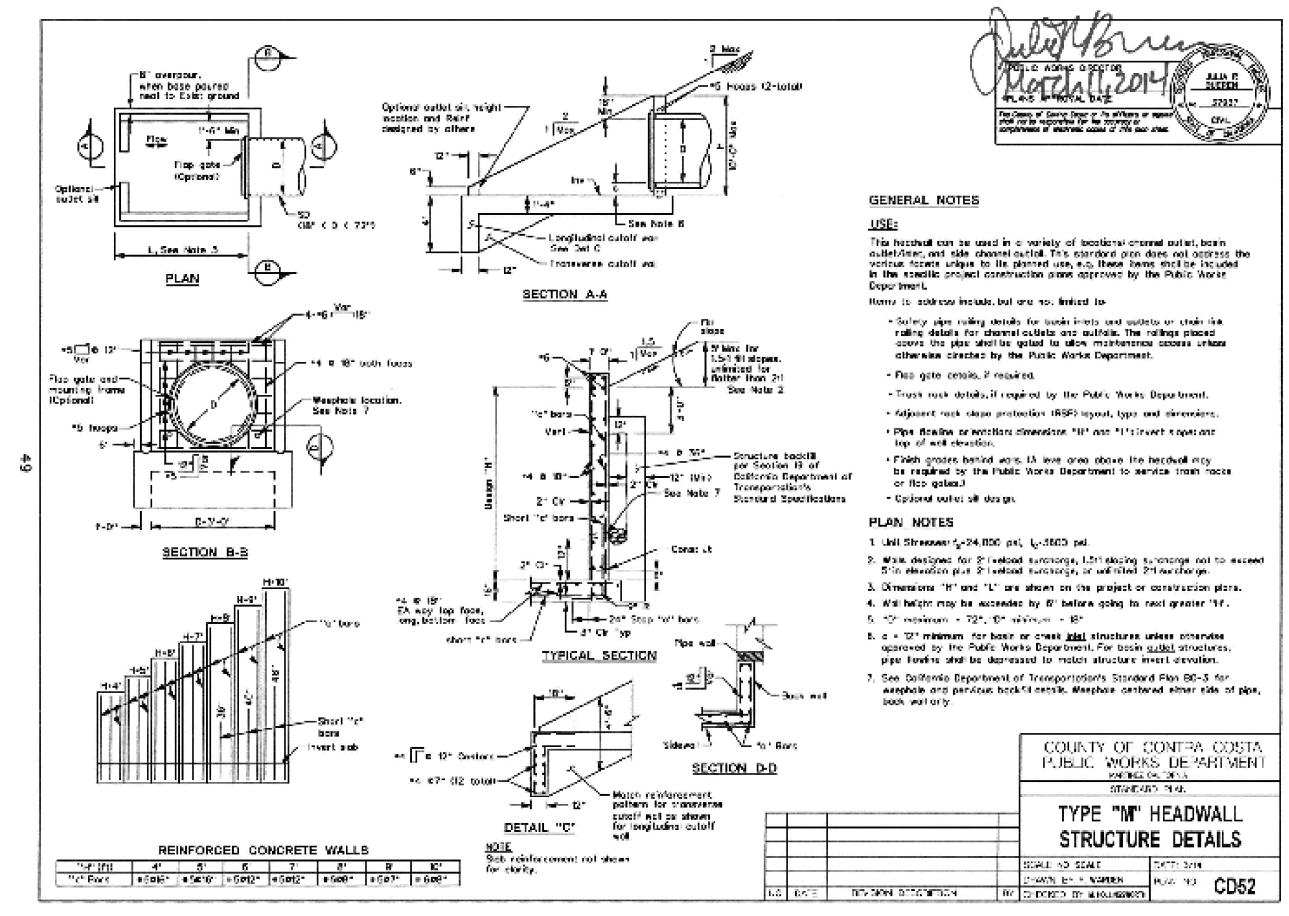
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STD. PLAN NO.

C-05

APPROVED BY	DATE	OVKLEA	COMORDO DO DO DO DA CAMANA
Kain Robai	APRIL 2017	OAKLE1	CONCRETE DRIVEWA
CITY ENGINEER	Rev. 4/19/17	CALIFORNIA	WITHFIANTER







2 STORM DRAIN TRENCH IN MAIN STREET
C14 NTS



2	LA	12/18/19			ADDED NEW SHEET
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BROWNSTONE & MAIN	

C14
14 OF 14 SHEETS
APN: 034-210-006

SHEET

MISC DETAILS