



GENERAL NOTES:

- THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF THE DESIGN HEREIN.
- ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS.
- NOTIFY UNDERGROUND SERVICE ALERT 811 AT LEAST THREE WORKING DAYS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOBSITE.
- THE CONTRACTOR IS REQUIRED BY STATE LAW TO ACTIVELY RESEARCH WORK AREA PRIOR TO CONSTRUCTION, REFERENCE MONUMENTS AND REPLACE THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT CARLSON, BARBEE & GIBSON AT (925) 866-0322 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION.
- NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE GRADING OR IMPROVEMENT PLANS. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT SO AS TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED AND PROPERLY GRADED AND SEALED. THE DRIP LINE OF TREES TO BE SAVED WILL BE FENCED, AND NO GRADING SHALL TAKE PLACE WITHIN THIS FENCED AREA UNLESS AS NOTED ON THE PLANS AND WITH INSPECTION FROM THE PUBLIC WORKS DEPARTMENT. REMOVAL OF EXISTING TREES WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH THE CITY'S MASTER TREE PLAN.
- IF DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AN ARCHAEOLOGIST CONSULTED, AND THE CITY PLANNING DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES, AS MAY BE REQUIRED BY THE PLANNING DIRECTOR, SHALL BE TAKEN TO PROTECT THEM.
- THE CONSTRUCTION CONTRACTOR AGREES, THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR 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 DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL AND CITY HARMLESS FROM ANY AND ALL LIABILITY EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A., AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT, AND LABOR PERSONNEL.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR), THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, CONES, FLAGMEN, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AND TO MAINTAIN TRAFFIC CONTROL AT ALL TIMES.
- CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS AT THE JOB SITE.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "TRAFFIC CONTROLS IN CONSTRUCTION AND MAINTENANCE WORK ZONES" BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE CURRENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ("MUTCD"). CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLAN SHALL BE REVIEWED AND APPROVED BY THE CITY OF ALAMEDA PUBLIC WORKS DEPARTMENT AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- STORAGE OF CONSTRUCTION MATERIALS AND/OR EQUIPMENT IS NOT PERMITTED IN THE PUBLIC RIGHT-OF-WAY UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY OF ALAMEDA. NO STORAGE OF MATERIAL SHALL BE ALLOWED, AT ANY TIME, WITHIN 40 FOOT OF AN INTERSECTION OR DRIVEWAY.
- THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY OF ALAMEDA CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHT OF WAY, EASEMENTS, OR PROVIDE SURVEY CONTROL, WHICH WILL BE DISTURBED OR REMOVED DUE TO THE CONTRACTORS WORK. THE REQUIRED DOCUMENTATION SHOULD BE FILED WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 9771.
- A CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL OSHA) PERMIT SHALL BE OBTAINED FOR TRENCHES FIVE FEET OR GREATER IN DEPTH. A COPY OF THIS PERMIT SHALL BE SUPPLIED TO THE PUBLIC WORKS DEPARTMENT. AN ADDITIONAL COPY SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
- A WATER POLLUTION CONTROL PLAN (WPCP), PER CALTRANS DEFINITION (HTTPS://DOT.CA.GOV/~MEDIA/DOT-MEDIA/PROGRAMS/CONSTRUCTION/DOCUMENTS/ENVIRONMENTAL-COMPLIANCE/OCTOBER2016-SWPPP-MANUAL-A11Y.PDF) FOR THE PUBLIC IMPROVEMENTS HEREIN, SHALL BE PREPARED BY THE CONTRACTOR FOR THE CITY OF ALAMEDA PRIOR TO CONSTRUCTION ACTIVITIES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR KEEPING A COPY OF THE WPCP ONSITE AT ALL TIMES AND IMPLEMENTING ITS PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SUBCONTRACTORS AND SUPPLIERS ARE AWARE OF, AND IMPLEMENT THE MEASURES IN THE WPCP.

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DIFFERENCES IN LOCATION OF EXISTING UTILITIES FROM THAT SHOWN, OR OF ANY CONFLICTS WITH THE DESIGN BEFORE CONTINUING WITH WORK IN THAT AREA.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE (BY ANY MEANS NECESSARY) ALL EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.
- CONSTRUCTION ACTIVITIES, INCLUDING MAINTENANCE AND WARMING OF EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY, AND NON-CITY HOLIDAYS, BETWEEN THE HOURS OF 7:00 A.M. AND 5:00 P.M. EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER. EXTENDED HOURS OR SATURDAY WORK WILL BE CONSIDERED BY THE CITY ENGINEER ON A CASE-BY-CASE BASIS.
- TRUCK TRAFFIC ON CITY STREETS SHALL USE CITY TRUCK ROUTES AND BE LIMITED TO THE HOURS OF 7:00 AM AND 5:00 PM. THERE SHALL BE NO NOISE GENERATION BEFORE 8:00 AM.
- THE CONTRACTOR OR HIS/HER REPRESENTATIVE SHALL APPLY BEST MANAGEMENT PRACTICES DURING CONSTRUCTION TO ENSURE COMPLIANCE WITH THE CLEAN WATER ACT AND MMRP WHICH THE CITY OF ALAMEDA IS PARTY TO.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FINAL GRADE OF IMPROVEMENTS.

UTILITY NOTES:

- ALL TRENCH BACKFILL SHALL CONFORM TO THE SPECIFICATIONS IN THE CITY STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXISTENCE OF ANY AND ALL UNDERGROUND FACILITIES, WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811, 3 DAYS PRIOR TO ANY EXCAVATION. WORK SHALL START WITHIN 5 DAYS AFTER THE ISSUANCE OF A USA INQUIRY IDENTIFICATION NUMBER. COMPLETE REMOVAL OF THE USA MARKINGS SHALL BE WITHIN 2 WORKING DAYS AFTER COMPLETION OF THE EXCAVATION, BACKFILL AND SURFACE REPLACEMENT OR FOURTEEN (14) CALENDAR DAYS FOLLOWING THE ISSUANCE OF THE INQUIRY IDENTIFICATION NUMBER WHICHEVER IS EARLIER.
- CONTACTING USA DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO DETERMINE LOCATION AND DEPTH OF BURIED UTILITIES OR REPAIR OF BURIED UTILITIES DAMAGED BY HIS OPERATION.
- EXCAVATIONS 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 LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING OR JACKING PIT IS FIVE FEET OR MORE IN DEPTH 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.
- EXISTING MANHOLE, VALVE AND METER BOX, RIM ELEVATIONS IF SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE RIMS AND COVERS TO THE FINISHED PAVEMENT GRADE.
- ALL NEW STORM DRAIN INLETS SHALL BE CLEARLY MARKED WITH THE WORDS 'NO DUMPING! DRAINS TO BAY' BY MEANS AS APPROVED BY PUBLIC WORKS DIRECTOR. PERMANENTLY AFFIXED THERMOPLASTIC, METALLIC OR PLASTIC LAMINATE STYLE MARKERS ARE EXAMPLES OF ACCEPTABLE FORMS.

ALAMEDA FIRE DEPARTMENT NOTES:

- PROVIDE THE FOLLOWING PRIOR TO ANY CONSTRUCTION:
 - WHERE ANY ROADWAY WILL BE REDUCED TO LESS THAN 20 FEET CLEAR WIDTH DUE TO THE PARKING OF VEHICLES OR STORAGE OF ANY TYPE YOU SHALL PROVIDE ONE OF THE FOLLOWING METHODS OF FIRE LANE IDENTIFICATION THAT ARE TAKEN FROM SECTION 22500.1 OF THE CALIFORNIA VEHICLE CODE, AND IN ACCORDANCE WITH THE FIRE DEPARTMENT POLICY, ONE OF THE TWO METHODS PRESENTED BELOW MUST BE PRESENT FOR ALL AREAS DESIGNATED AS A FIRE ACCESS LANE:
 - POSTING OF A SIGN EVERY 25 FEET ALONG AND IMMEDIATELY ADJACENT TO, AND VISIBLE FROM, THE DESIGNATED FIRE LANE CLEARLY STATING IN LETTERS NOT LESS THAN 1 INCH IN HEIGHT THAT THE PLACE IS A FIRE LANE - NO PARKING PERMITTED.
 - BY A RED CURB UPON WHICH IS CLEARLY MARKED EVERY 25 FEET WORDS "NO PARKING - FIRE LANE."
 - AREAS WHERE THE MINIMUM 20 FOOT CLEAR WIDTH OF THE ROADWAY WOULD BE REDUCED DUE TO PARKING OF ANY VEHICLES SHALL BE IDENTIFIED AS FIRE LANES.

ABBREVIATIONS:

AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	MO	MONUMENT
BWK	BACK OF WALK	PL	PROPERTY LINE
CB	CATCH BASIN	PR	PROPOSED
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE
EG	EXISTING GROUND	R	RADIUS
EX	EXISTING	RCP	REINFORCED CONCRETE PIPE
FG	FINISHED GRADE	RIM	RIM ELEVATION
FI	FIELD INLET	RT	RIGHT
FL	FLOWLINE	R/W	RIGHT OF WAY
GB	GRADE BREAK	S	SLOPE
GV	GATE VALVE	SD	STORM DRAIN
HGL	HYDRAULIC GRADE LINE	SDMH	STORM DRAIN MANHOLE
HP	HIGH POINT	ST	STREET
INV	INVERT	STA	STATION
LF	LINEAR FEET	STD	STANDARD
LP	LOW POINT	TC	TOP OF CURB
LT	LEFT	TEMP	TEMPORARY
MAX	MAXIMUM	TG	TOP OF GRATE ELEVATION
MH	MANHOLE	TYP	TYPICAL

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
x 5.0		SPOT ELEVATION
□	⊠	STORM DRAIN INLET STRUCTURE
○		STORM DRAIN MANHOLE
— [EX SD] —		STORM DRAIN PIPE
—		PROPERTY LINE

CONCRETE & REINFORCING STEEL:

- ALL CONCRETE SHALL BE READY-MIX IN ACCORDANCE WITH ASTM C94.
 - CEMENT: ASTM C150 TYPE II.
 - AGGREGATE: ASTM C33
 - NON-SHRINK GROUT: ASTM C1107, COE CRD-C621, PREMIXED, NON-STAINING, NON-SHRINK GROUT.
 - GROUT OR CONCRETE CONTAINING MORE THAN 0.1 PERCENT OF SOLUBLE CHLORIDE SHALL NOT BE USED.
 - MIXES ARE TO BE REVIEWED BY OWNER'S TESTING LAB AND SUBMITTED TO THE ENGINEER FOR APPROVAL. DO NOT CAST CONCRETE WITHOUT APPROVAL BY ENGINEER.
- | CONCRETE STRUCTURES | STRENGTH | MAX AGG. SIZE | MAX W/C RATIO | AIR CONTENT |
|---------------------|----------|---------------|---------------|-------------|
| | 4500 PSI | 1-1/2" | 0.40 | 1.5% ± 1.5% |
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL CONCRETE SHALL BE HARD ROCK AGGREGATE, REGULAR-WEIGHT CONCRETE, 145 PCF, UNLESS OTHERWISE NOTED.
- INSERTS: ALL ITEMS TO BE CAST IN CONCRETE, SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
 - PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE, EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
 - CONSTRUCTION JOINTS: PROVIDE AS DETAILED ON DRAWINGS. EXPOSE CLEAN COARSE AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX BY SANDBLASTING, BUSHHAMMER, OR OTHER APPROVED METHOD. LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
 - GROUT AND ADHESIVE:

CEMENTITIOUS:	SIKAGROUT 212.
EPOXY::	SIKADUR 32, HI-MOD LPL
 - REINFORCING STEEL:

ASTM A615, GRADE 60, TYPICAL	
ASTM A706, WHERE WELDED OR OTHERWISE INDICATED	
ASTM A722, GRADE 150 THREE-BARS	
ASTM A108, DEFORMED BAR ANCHORS	
ASTM A970, HEADED TERMINATORS	
ASTM A1064, GRADE 70 PLAIN WIRE	
 - WELDED WIRE FABRIC:

ASTM A185 (FLAT SHEETS ONLY)	
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 - ALL REINFORCEMENT SHALL BE CONTINUOUS. STAGGER SPLICES WHERE POSSIBLE. LAPS SHALL BE PER TYPICAL DETAILS, UNLESS OTHERWISE NOTED.
 - HEADED TERMINATORS SHALL BE HRC 100-SERIES T-HEADS (ICC ER-5292), HRC 555 T-HEADS (ICC ESR-2935) OR LENTON TERMINATORS (ICC ER-3967), OR APPROVED EQUAL.
 - MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT, UNLESS OTHERWISE NOTED

CAST AGAINST EARTH:	3 INCHES
CAST IN FORMS AND EXPOSED TO EARTH OR WEATHER:	
#6 BAR AND LARGER:	2 INCHES
#5 BAR AND SMALLER:	1.5 INCHES
NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS AND JOISTS:	1 INCH
BEAMS, GIRDERS AND COLUMNS (TO TIES):	1.5 INCHES
- CLEARANCES ARE TO CLOSEST REINFORCEMENT.
- TIDFLEX ANCHOR BOLTS TO BE STAINLESS STEEL EPOXY SET THREAD RODS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION REQUIREMENTS FOR SIZE AND EMBEDMENT DEPTH.

ROCK SLOPE PROTECTION:

- BEDDING STONE AND RIPRAP SHALL BE ANGULAR QUARRY ROCK. SPECIALLY CAST OR CAREFULLY SELECTED CONCRETE PIECES FREE OF REINFORCING STEEL, OTHER EXTRANEUS MATERIALS, AND NOT ROUNDED, WORN OR OTHERWISE EXCESSIVELY WEATHERS IS ONLY PERMITTED WITH WRITTEN APPROVAL OF THE ENGINEER. THE USE OF DIRT, SMALL CONCRETE RUBBLE, CONCRETE PIECES WITH EXPOSED REBAR, LARGE AND OFF SHAPED PIECES OF CONCRETE, ASPHALT IS PROHIBITED.
- RIPRAP SHALL BE CLASS LIGHT. THE GREATEST DIMENSION OF THE MATERIAL SHALL BE NO MORE THAN THREE TIMES THE LEAST DIMENSION. THE MATERIAL SHALL BE WELL GRADED AND CONFORM TO THE FOLLOWING GRADING REQUIREMENTS:

RIPRAP (LIGHT)	
WEIGHT OF PIECES	PERCENT PASSING BY WEIGHT
500 LB	0% TO 50%
200 LB	50% TO 100%
75 LB	95% TO 100%

DATUM & PROJECT CONTROL:

- VERTICAL DATUM: NAVD88.
- PROJECT CONTROL: NAD83, CALIFORNIA STATE PLANES, ZONE III, US FOOT

NO.	BY	DATE	REVISIONS

DATE: DEC. 2025
 DRAWN BY: JDD
 PROJ. ENGR: KEJ
 PROJ. MGR: AJO

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CIVIL ENGINEERS SURVEYORS PLANNERS

SHELL GATE ROAD & WILLOW STREET
 AT SHORELINE BOULEVARD

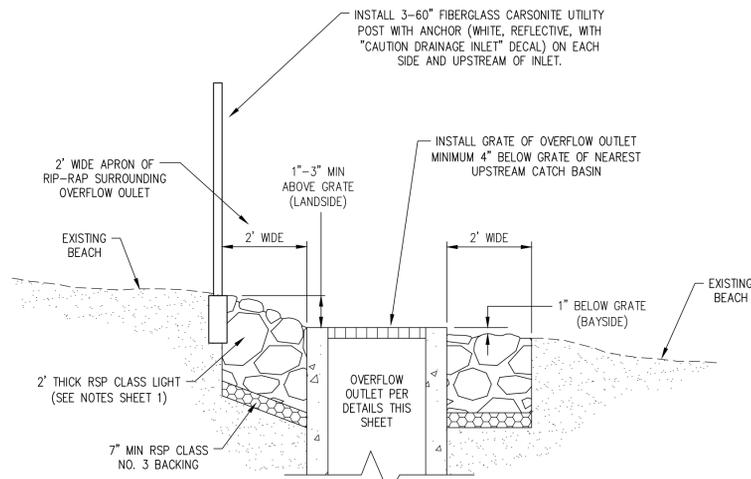
IMPROVEMENT PLANS
 NOTES, LEGEND & ABBREVIATIONS

CITY OF ALAMEDA CALIFORNIA

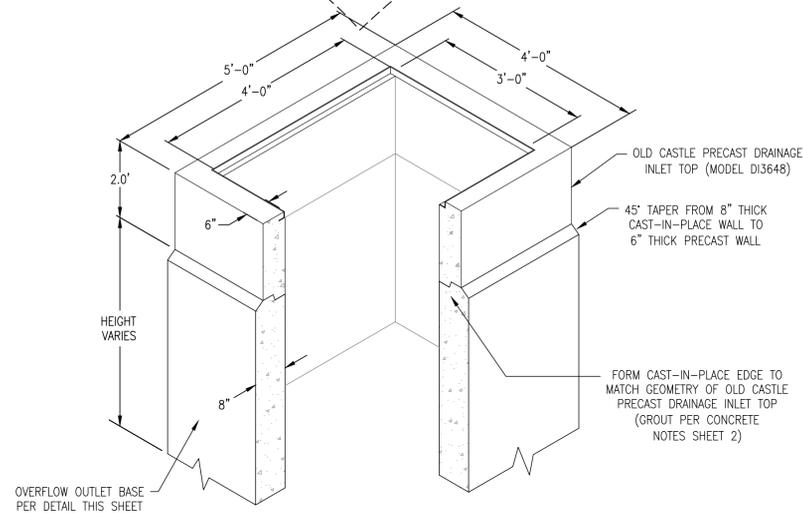
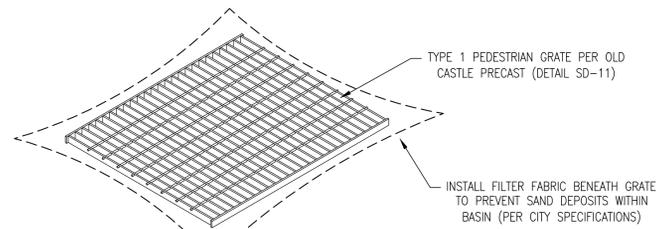
OUTFALL IMPROVEMENTS
 P.W. NO. 04-25-15

SHEET NUMBER
2
 OF 5

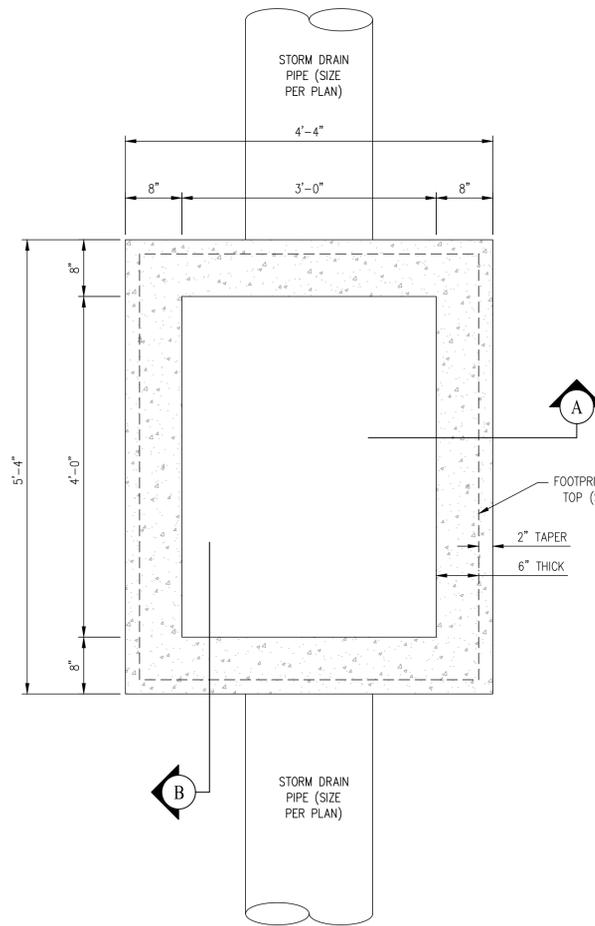
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2981-000



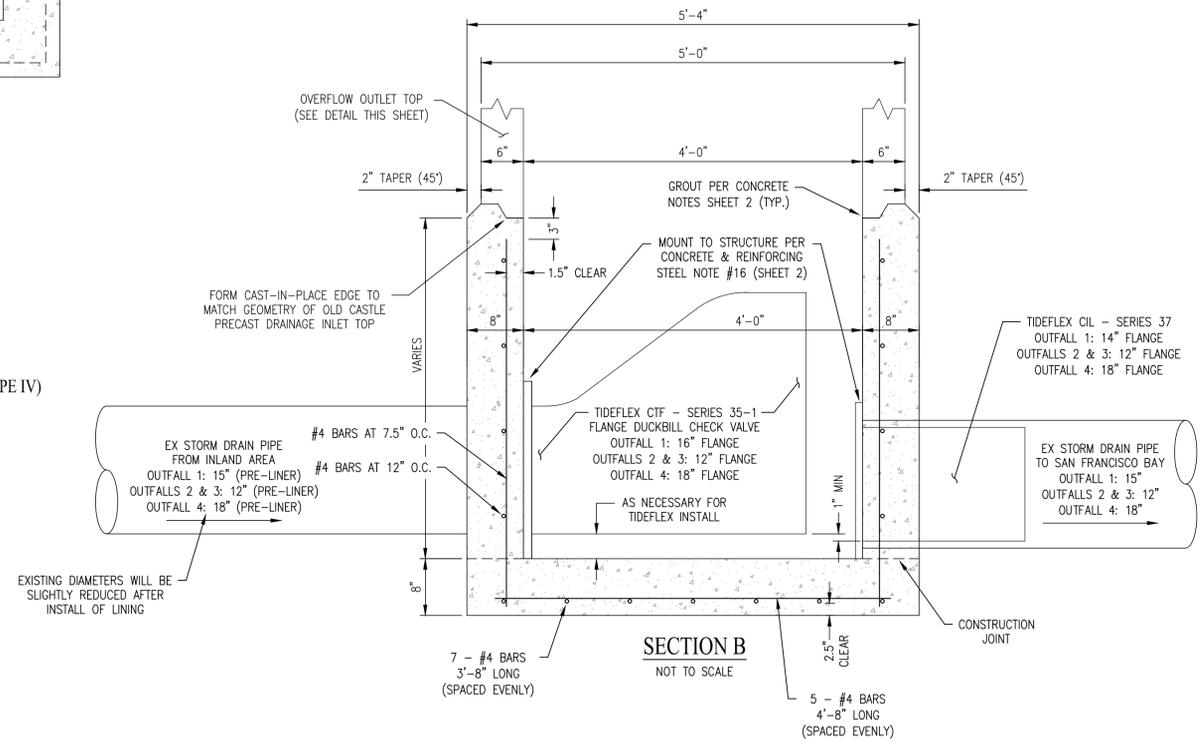
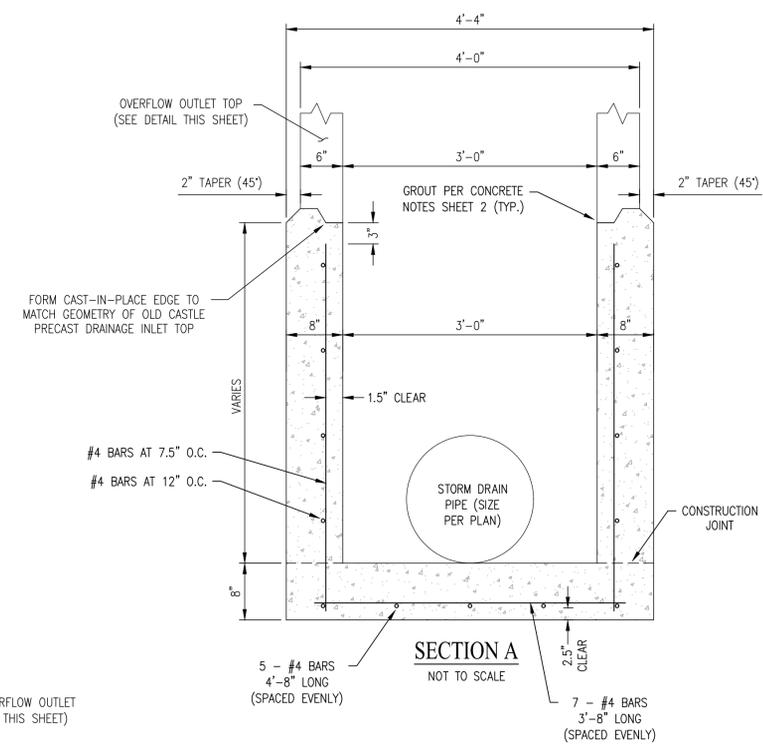
INLET RIP-RAP DETAIL
NOT TO SCALE



OVERFLOW OUTLET TOP
NOT TO SCALE



OVERFLOW OUTLET BASE
(MODIFIED ALAMEDA COUNTY INLET - TYPE IV)
NOT TO SCALE



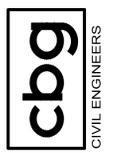
NO.	BY	DATE	REVISIONS



DATE: DEC. 2025
DRAWN BY: JDD
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PLANNERS
SURVEYORS



SHELL GATE ROAD & WILLOW STREET
AT SHORELINE BOULEVARD

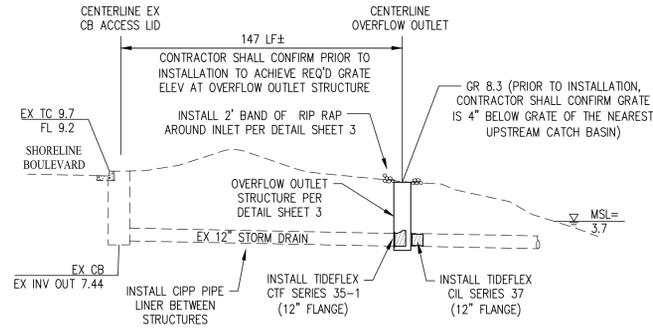
IMPROVEMENT PLANS
TYPICAL DETAILS

CITY OF ALAMEDA CALIFORNIA

OUTFALL IMPROVEMENTS
P.W. NO. 04-25-15

SHEET NUMBER
3
OF 5

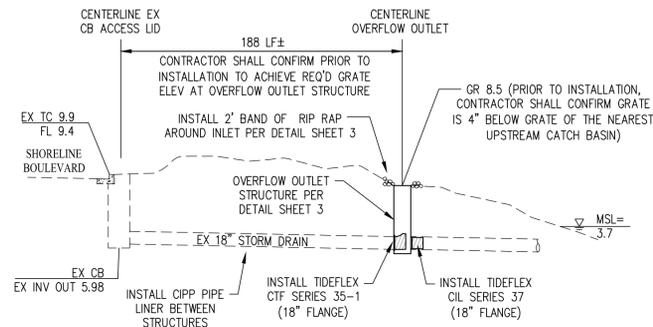
JOB NUMBER
2981-000



PROFILE VIEW - OUTFALL #3
NOT TO SCALE



PLAN VIEW - OUTFALLS #3 & #4
SCALE: 1" = 60'



PROFILE VIEW - OUTFALL #4
NOT TO SCALE



STREET VIEW - OUTFALL #3

NOTE:
THE UPSTREAM EXISTING PIPELINE SHALL BE REHABILITATED WITH TRENCHLESS METHODS (I.E. LINER) FROM THE NEAREST UPSTREAM STRUCTURE TO THE NEW OVERFLOW OUTLET



STREET VIEW - OUTFALL #4

NO.	BY	DATE	REVISIONS

DATE: DEC. 2025
DRAWN BY: JDD
PROJ. ENGR: KEJ
PROJ. MGR: AJO

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SURVEYORS
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OUTFALL IMPROVEMENTS
P.W. NO. 04-25-15
SHELL GATE ROAD & WILLOW STREET
AT SHORELINE BOULEVARD
IMPROVEMENT PLANS
OUTFALLS 3 & 4
CITY OF ALAMEDA
CALIFORNIA

SHEET NUMBER
5
OF 5
JOB NUMBER
2981-000