

MINOR GRADING NOTES

1. ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY'S CURRENT GRADING ORDINANCE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS) AND THE "SAN DIEGO REGIONAL STANDARD DRAWINGS", AS AMENDED BY THE CITY SUPPLEMENTS, AND THE EARTHWORK SPECIFICATIONS ATTACHED TO THE "SOILS REPORT".
2. ALL GRADING AND IMPROVEMENTS SHALL BE AS PER APPROVED PLANS. THERE SHALL BE NO CHANGES FROM THE APPROVED PLANS WITHOUT PRIOR APPROVAL BY THE CITY ENGINEER.
3. THERE SHALL BE NO TRESPASSING, ACCESSING, GRADING OR CONSTRUCTION OF ANY TYPE BEYOND THE SITE PROPERTY LINES WITHOUT A WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER. FAILURE TO COMPLY WILL RESULT IN THE REVOCATION OF THE GRADING PERMIT.
4. NEITHER LEGAL ACCESS TO OTHER PARCELS NOR EMERGENCY ACCESS SHALL BE BLOCKED AT ANY TIME.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR LANDSCAPING AND SLOPE STABILIZATION OF ALL EMBANKMENTS OVER 3 FEET IN HEIGHT, AS SOON AS GRADING OF SLOPES ARE COMPLETED. PERMANENT IRRIGATION SYSTEMS SHALL BE INSTALLED FOR ALL EMBANKMENTS OVER 5 FEET IN HEIGHT (AND FOR ALL SLOPES ALONG MAJOR STREETS).
6. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER.
7. THE SITE SHALL BE PROTECTED FROM EROSION, AND SEDIMENT CONTROLLED ON THE SITE THROUGHOUT THE CONSTRUCTION PERIOD.
8. PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN AND PROTECTED FROM EROSION, AND SEDIMENT CONTROLLED THROUGHOUT THE CONSTRUCTION PERIOD.
9. PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT APPROVAL FROM THE CITY ENGINEER.
10. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISHED GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OF CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER. FINISHED SLOPES SHALL BE LEFT IN NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS OR OTHER WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFFSITE.
11. ALL EXISTING ABANDONED PIPELINES SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED SOILS UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
12. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES. CONTRACTOR SHALL CONTACT DIG ALERT AND VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO ANY GRADING OR TRENCHING.
13. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK AND ENGINEERING DIVISION INSPECTOR PRIOR TO PERFORMING ROCK-REMOVAL OPERATIONS.
15. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL A VALID LAND DEVELOPMENT (GRADING) PERMIT HAS BEEN ISSUED AND ALL AFFECTED PROPERTY OWNERS' PERMISSIONS HAVE BEEN OBTAINED.
16. A PERMIT, SUPPLEMENTED WITH A TRAFFIC CONTROL PLAN, SHALL BE SUBMITTED TO THE CITY FOR ANY WORK WITHIN EXISTING CITY RIGHT-OF-WAY AND/OR EASEMENTS.
17. DAMAGED AND BROKEN SECTIONS OF CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED. PATCHING OF SIDEWALK IS NOT PERMITTED. A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK TO SCORE MARK (TYPICALLY 5'X). FOR SIDEWALKS EXCEEDING 5' WIDTH, REPLACEMENT SHOULD BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
18. ALL MASONRY RETAINING WALLS, EXCEPT THOSE LESS THAN THREE FEET HIGH AND NOT SUPPORTING SURCHARGES, REQUIRE PERMIT FROM BUILDING DIVISIONS.
19. AN APPROVED HAUL ROUTE PERMIT SHALL BE REQUIRED FOR HAULING OF ANY EXPORT OR IMPORT MATERIALS INTO OR OUT OF THE SITE.
20. LOT GRADING IS TO BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING M-12 (TYPICAL LOT GRADING).
21. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHWORK OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAVED BY THE CITY ENGINEER.
22. ALL DISTURBED AREAS MUST BE RE-VEGETATED, SUBSTANTIALLY GERMINATED, AND ESTABLISHED WITHIN 45 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION.
23. IMPORT MATERIALS SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT, A SITE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTES OR ADJACENT STREETS AS DIRECT RESULT OF THE OPERATION.
24. WHEN APPLICABLE, CONTRACTOR IS REQUIRED TO OBTAIN A TRAFFIC CONTROL PERMIT FROM ENGINEERING DIVISION IN CONFORMANCE WITH CITY OF OCEANSIDE AND CALTRAN REQUIREMENTS. TRAFFIC CONTROL PLAN SHALL BE IN EFFECT AND ENFORCED FROM THE APPROVED HOURS IN THE RIGHT-OF-WAY PERMIT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

MINOR GRADING PLAN FOR PROJECT NAME/TITLE

MINOR GRADING NOTES CONTINUED

- 25--ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHWORK OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAVED BY THE CITY ENGINEER.
- 26--ALL DISTURBED AREAS MUST BE RE-VEGETATED, SUBSTANTIALLY GERMINATED, AND ESTABLISHED WITHIN 45 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION.
- 27--IMPORT MATERIALS SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT, A SITE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTES OR ADJACENT STREETS AS DIRECT RESULT OF THE OPERATION.
- 28--WHEN APPLICABLE, CONTRACTOR IS REQUIRED TO OBTAIN A TRAFFIC CONTROL PERMIT FROM ENGINEERING DIVISION IN CONFORMANCE WITH CITY OF OCEANSIDE AND CALTRAN REQUIREMENTS. TRAFFIC CONTROL PLAN SHALL BE IN EFFECT AND ENFORCED FROM 8 A.M. TO 3:30 P.M. UNLESS OTHERWISE IS APPROVED BY THE CITY ENGINEER.

SPECIAL STORM DRAIN NOTES

1. THE CITY'S INSPECTOR SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OF WORK ON STORM DRAIN PIPES AND STRUCTURES. CITY INSPECTOR NUMBER: (760) 435-5081.
2. THE CONTRACTOR MUST SECURE APPROVAL FROM THE ENGINEER OF WORK FOR LINE AND GRADE, AND THE CITY INSPECTOR PRIOR TO BACKFILL OVER ANY STORM DRAIN.
3. ALL STORM DRAIN LINES SHALL BE CLEANED OF ALL FOREIGN MATERIAL PRIOR TO CONNECTION TO THE CITY'S STORM DRAIN SYSTEM.
4. ALL STORM DRAIN PIPES 12" OR GRATER IN DIAMETER SHALL BE TELEVISED AT THE CONTRACTOR'S EXPENSE AND VIEWED BY THE CITY INSPECTOR PRIOR TO FINAL ACCEPTANCE. A COLOR DVD WITH A VERBAL DESCRIPTION AND A WRITTEN MANUSCRIPT OF THE PERTINENT DIALOGUE SHALL BE SUBMITTED TO THE CITY ENGINEER. THE STARTING POINT, THE DIRECTION, DISTANCE TRAVELED AND ANY PROBLEM AREAS SHALL BE NOTED.

STORM WATER MITIGATION PLAN NOTE:

ALL POST-CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED STORM WATER MITIGATION PLAN (SWMP).

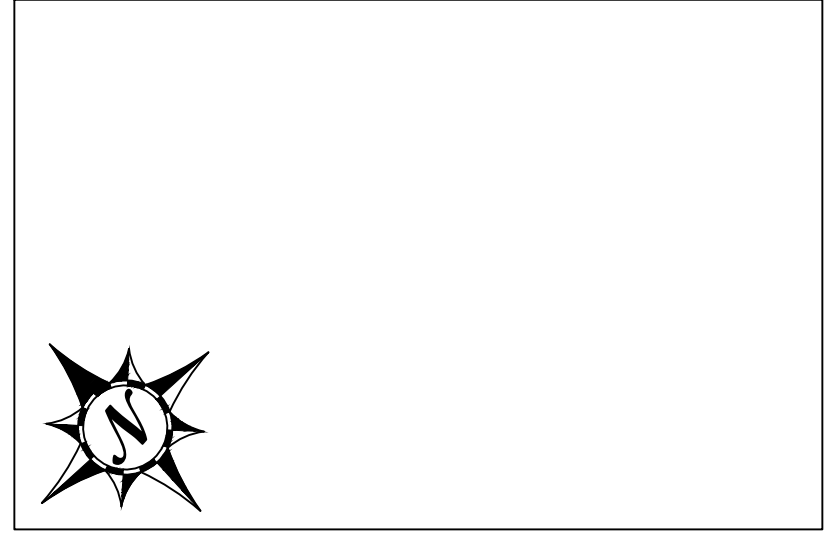
PROVIDE STENCILING OR LABELING OF ALL STORM WATER DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA WITH PROHIBITIVE DUMPING LANGUAGE (E.G. "NO DUMPING - I LIVE DOWNSTREAM") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING, SATISFACTORY TO THE CITY ENGINEER. STENCILING OR LABELING MAY ALSO BE REQUIRED IN SPANISH.

THE PROJECT GEOTECHNICAL CONSULTANT SHALL PROVIDE A STAMPED AND SIGNED LETTER TO THE CITY OF OCEANSIDE ENGINEERING DIVISION STATING THAT THE SOIL PLACED WITHIN THE BIORETENTION FACILITIES MEETS THE SPECIFICATIONS CITED IN THE APPROVED SWMP.

(ADD NOTE WHEN APPLICABLE)

OWNER/DEVELOPER NOTES:

- A. THE PRESENT OR FUTURE OWNERS/DEVELOPER SHALL INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITIES, CLAIMS ARISING FROM ANY LANDSLIDE ON THIS SITE.
- B. THE PRESENT OR FUTURE OWNERS/DEVELOPER SHALL INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITIES, CLAIMS ARISING FROM ANY FLOODING THAT OCCURS ON THIS SITE, AND ANY FLOODING THAT IS CAUSED BY THIS SITE IMPACTING THE ADJACENT PROPERTIES.
- C. IT IS THE RESPONSIBILITIES OF THE OWNER/DEVELOPER TO EVALUATE AND DETERMINE THAT ALL SOIL IMPORTED OR EXPORTED AS PART OF THIS DEVELOPMENT IS FREE OF HAZARDOUS AND/OR CONTAMINATED MATERIAL AS DEFINED BY THE CITY AND THE COUNTY OF SAN DIEGO DEPARTMENT OF HEALTH. EXPORTED OR IMPORTED SOILS SHALL BE PROPERLY SCREENED, TESTED AND DOCUMENTED REGARDING HAZARDOUS CONTAMINATION.



VICINITY MAP
NOT TO SCALE

SHEET INDEX

DESCRIPTION	SHEET NO.
TITLE SHEET
GRADING PLAN
DRAINAGE PLAN
DETAIL SHEET
HORIZONTAL CONTROL
PRIVATE STREET LAYOUT
STORM WATER QUALITY MANAGEMENT PLAN
(SWQMP) BMP EXHIBITS

DECLARATION OF ENGINEER OF WORK

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER OR ARCHITECT IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THIS LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

ENGINEER _____ LICENSE NO. _____ DATE _____

ENGINEER SEAL
SIGNATURE

CIVIL ENGINEER CERTIFICATION (AS-BUILT)

I HEREBY CERTIFY AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, THAT I HAVE REVIEWED THE ENGINEERING WORK AS SHOWN THESE PLANS TO DETERMINE GENERAL COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND THAT THE COMPLETED CONSTRUCTION IS IN CONFORMANCE WITH THESE PLANS.

I ALSO CERTIFY THAT ALL DESIGN CHANGES MADE DURING CONSTRUCTION, ALL INFORMATION AS REQUIRED BY THE CITY OF OCEANSIDE GRADING ORDINANCE, AND ALL RECOMMENDATIONS FROM THE SOILS ENGINEERING GEOLOGY REPORTS PREPARED FOR THIS PROJECT HAVE BEEN COMPLETED.

ENGINEER _____ LICENSE NO. _____ DATE _____

ENGINEER SEAL
SIGNATURE

FEMA

SHOW FLOODPLAIN BOUNDARIES, INDICATE FLOOD ZONE, BASE FLOOD ELEVATION, AND FIRM MAP NO, WHEN APPLICABLE. ELEVATION CERTIFICATE WILL BE REQUIRED FOR ALL NEW BUILDINGS (REGARDLESS OF TYPE) LOCATED WITHIN THE FLOOD PLAIN PRIOR TO ISSUANCE OF BUILDING OCCUPANCY.

NOTE :

THE CITY'S PLAN CHECK IS NOT A DETERMINATION OF TECHNICAL DESIGN FUNCTIONALITY OF THE IMPROVEMENTS. THE PLAN CHECK DOES NOT RELIEVE THE ENGINEER OF WORK OF THEIR RESPONSIBILITY FOR THE DESIGN AND THE SUFFICIENCY OF THE PROPOSED IMPROVEMENTS.

WORK TO BE DONE :

LEGEND :

OSD - CITY OF OCEANSIDE STD. DRAWING
SDRSD - SAN DIEGO REGIONAL STD. DRAWING

ITEM	STD. DWG.	SYMBOL
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EARTHWORK QUANTITIES

	CUT	FILL
FILL CY CY
CUT CY CY
REMEDIAL WORK CY CY
IMPORT/EXPORT CY CY

SITE INFORMATION

SITE ADDRESS
 LEGAL DESCRIPTION
 APN
 ACREAGE: GROSS NET DISTURBED

OWNER/PERMITEE

OWNER/DEVELOPER NAME CONTACT NAME
 ADDRESS
 PHONE FAX E-MAIL:

SOILS ENGINEER

COMPANY NAME ENGINEER NAME
 ADDRESS
 PHONE FAX E-MAIL:

ENGINEER OF WORK

COMPANY NAME ENGINEER NAME
 ADDRESS
 PHONE FAX E-MAIL:

UTILITY COMPANY

	EMERGENCY NO.
AT&T	1.(800).924-9420.....
COX	1.(800).234-3993.....
SAN DIEGO GAS AND ELECTRIC (SDG&E)	1.(800).611-7343.....
WATER UTILITIES DEPARTMENT (CITY)	1.(800).435-5800.....
TRAFFIC SIGNAL MAINTENANCE (CITY)	1.(800).435-4500.....
NORTH COUNTY TRANSIT DISTRICT (NCTD)	1.(760).966-6500.....

WDID NO. _____ FILE # _____

UNDERGROUND SERVICE ALERT
 SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG

BASIS OF BEARING

SOURCE & DATE OF TOPOGRAPHY

GEOTECHNICAL CONSULTANT APPROVAL
 CITY OF OCEANSIDE
 PLANS ARE CHECKED AND FOUND TO COMPLY WITH THE CITY OF OCEANSIDE REQUIREMENTS:

APPROVED BY _____ DATE _____

NO.	DESCRIPTION	APPY'D	DATE

APPROVED CHANGES:

CITY NAVD88 BENCHMARK:

Description: _____
 Location: _____
 Record From: _____
 Elev: _____ Datum: _____

SHEET 1 CITY OF OCEANSIDE ENGINEERING DIVISION 4 SHEETS
 MINOR GRADING PLAN FOR:
PROJECT NAME/TITLE
PROJECT ADDRESS
 ACCEPTED BY _____
 City Engineer: Brian K. Thomas PE 60907 DATE: _____
 Prepared under the direction of: _____ Reviewed By: _____ PLAN NUMBER _____
 Print Name: PE Date _____ MGPXX-XXXX

MINOR GRADING PLAN FOR PROJECT NAME/TITLE

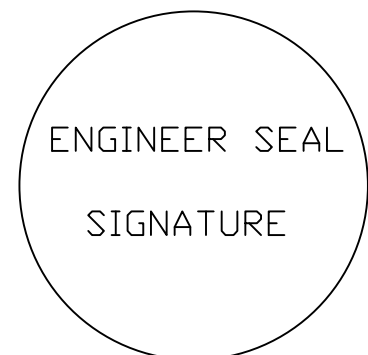
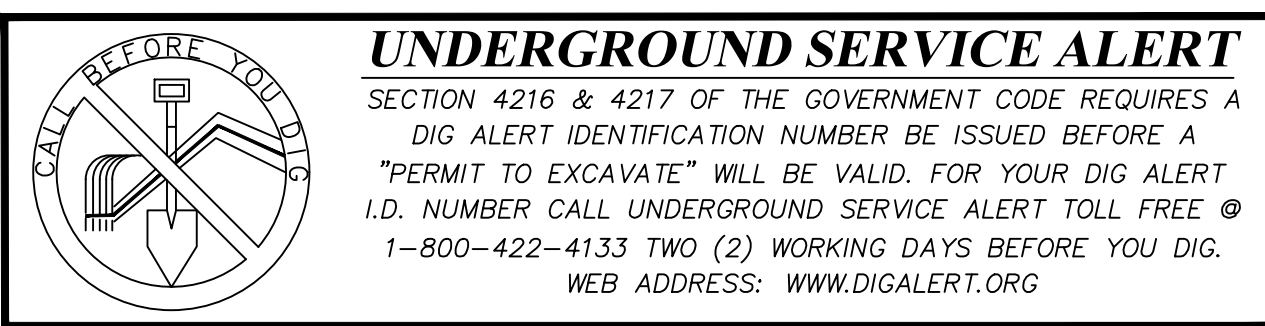
WATER NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE ENGINEERS DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
- A "W" SHALL BE INSCRIBED ON THE CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY WATERLINE OR CENTERLINE STATIONING.
- PRESSURE TEST, DISINFECT, SAMPLE TEST(S), AND FLUSH THE WATER SYSTEM IN ACCORDANCE WITH THE GUIDELINE TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS", INCLUDED AS SECTION F OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL'S.
- NO DISRUPTION TO THE EXISTING WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-INS WILL BE SCHEDULED BETWEEN TUESDAY, AND THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS. REFER TO THE GUIDELINE TITLED, "ADMINISTRATIVE PROCEDURES FOR WATER LINE SHUTDOWNS" IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT. A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) SHALL PROTECT THE TEMPORARY CONSTRUCTION METER.
- ALL WATER USED ON A CONSTRUCTION PROJECT SHALL BE METERED. THE COST OF THE WATER WILL BE CHARGED TO THE CONTRACTOR/DEVELOPER. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM NON-METERED FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION SO THAT EXISTING WATER FACILITIES SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. (UNDERGROUND SERVICE ALERT: 8-1-1).
- LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION (POTHOLING) BY THE CONTRACTOR, AFTER USA MARK-OUT HAS BEEN COMPLETED AND THE WATER UTILITIES DEPARTMENT HAS BEEN GIVEN A TWO (2) WORKING-DAY NOTICE.
- THE EXISTENCE AND LOCATION OF EXISTING WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES.
- NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE WATER UTILITIES DIRECTOR.
- NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE ZINC-PLATED AND COATED PER SECTION 2.12.D OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL, EXCEPT FOR BURIED SERVICE, WHICH SHALL BE TYPE 316 STAINLESS STEEL. ALL PLATED NUT AND BOLT THREADS SHALL BE COATED WITH NON-OXIDE GREASE PRIOR TO INSTALLATION. APPLY ANTI-SEIZE TO ALL STAINLESS STEEL NUT AND BOLT THREADS. BURIED SERVICE VALVES, FITTINGS, AND APPURTENANCES WILL BE COATED AND WRAPPED PER SECTION 2.12 OF THE OCEANSIDE WATER, SEWER, RECYCLED WATER, DESIGN AND CONSTRUCTION MANUAL.
- WATER SERVICES ARE NOT PERMITTED IN DRIVEWAYS.
- THE WATER UTILITIES INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL THE WATER UTILITIES DEPARTMENT AT 760-435-5800.
- PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) WP-02, EXCEPT THAT COMPACTION IN ALL ZONES SHALL BE 95%. THE PIPE ZONE SHALL BE DEFINED AS AREA 6-INCHES UNDER THE PIPE AND 12-INCHES OVER THE PIPE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND WITH A SAND EQUIVALENT (SE) OF 30 OR MORE. THE TRENCH ZONE SHALL BE DEFINED AS THE AREA 12-INCHES OVER PIPE TO BOTTOM OF PAVEMENT SECTION. TRENCH ZONE MATERIAL SHALL BE NATIVE MATERIALS, FREE FROM STONES, CLODS, AND OTHER DELETERIOUS MATERIALS.
- ALL FITTINGS AND SERVICES SHALL BE ENCASED WITH A MINIMUM OF SIX (6) INCHES OF APPROVED OR NEUTRAL SAND, AND PER SECTION 2.12 OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
- PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS, THE LOCATIONS OF WHICH SHALL BE DETAILED ON THE PLANS.
- DEFLECTIONS AT PIPE JOINTS SHALL NOT BE PERMITTED FOR PVC PIPE 4-INCH THROUGH 12-INCH. CURVES AND DEFLECTIONS SHALL BE MADE ONLY WITH THE USE OF HIGH DEFLECTION C900 PVC COUPLINGS OR THE APPROVED DUCTILE IRON FITTINGS. A MAXIMUM OF 5 DEGREES PER COUPLING SHALL BE PERMITTED.
- POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
- PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
- 3-INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED "WATER" IN 1-1/2 INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED SAND BEDDING 12-INCHES ABOVE AND CENTERED OVER THE WATER MAIN PRIOR TO BACKFILLING THE TRENCH.
- WATER QUALITY TESTS SHALL INCLUDE BACTERIOLOGICAL (BT) AND GENERAL PHYSICAL (GP) TESTING. ALL TESTING WILL COMPLY WITH THE PROVISIONS OF SECTION G) WATER SYSTEM TESTING REQUIREMENTS IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL. ALL TESTING REQUIREMENTS WILL BE SUCCESSFULLY COMPLETED BEFORE CONNECTION (TIE-IN) SUBMITTAL AND APPROVAL.
- ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION (SDRWQCB) REGULATIONS.
- DETAILED PLANS FOR PRIVATE FIRE UNDERGROUND LINES MUST BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SEWER NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
- EACH LOT SHALL BE SERVED BY A MINIMUM OF 4-INCH SEWER LATERAL SET AT A MINIMUM SLOPE OF 2% WITH A MINIMUM DROP OF 0.3 FEET AND A MINIMUM OF FIVE (5) FEET OF COVER AT PROPERTY LINE PER OCEANSIDE STANDARD DRAWING S-3.
- AN "S" SHALL BE INSCRIBED ON THE CURB DIRECTLY ABOVE ALL SEWER LATERALS. LATERALS SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY SEWER MAIN OR CENTERLINE STATIONING.
- A SEWER CLEANOUT SHALL BE PROVIDED WITHIN TWO (2) FEET BEHIND THE PROPERTY LINE FOR ALL RESIDENTIAL SEWER LATERALS PER SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) SC-01.
- AN INSPECTION MANHOLE SHALL BE PROVIDED IMMEDIATELY BEHIND THE PROPERTY LINE FOR ALL COMMERCIAL AND INDUSTRIAL SEWER LATERALS PER OCEANSIDE STANDARD DRAWING S-7.
- THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY INSPECTOR PRIOR TO BACKFILL OVER ANY SEWER LINE.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND THE WATER UTILITIES DIRECTOR.
- AN APPROVED AND LICENSED CONTRACTOR SHALL MAKE ALL SEWER LATERAL CONNECTIONS TO THE EXISTING SEWER MAINS..
- AN APPROVED CONTRACTOR MAY MAKE SEWER LATERAL CONNECTIONS TO EXISTING SEWER MAINS THAT ARE LOCATED IN EASEMENTS WHERE NO PAVING IS INVOLVED. THIS MAY BE DONE WITH THE APPROVAL OF THE WATER UTILITIES DIRECTOR AND WILL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR THIS WORK.
- NO DISRUPTION TO EXISTING SEWER SERVICES WILL BE ALLOWED DURING CONNECTIONS TO EXISTING MAINS WITHOUT THE SPECIFIC APPROVAL OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
- THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO STARTING EXCAVATION SO THAT EXISTING SEWER FACILITIES MAY BE MARKED IN THE FIELD. (UNDERGROUND SERVICE ALERT: 8-1-1).
- POTHOLING LOCATION AND ELEVATION OF EXISTING SEWER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR, IN THE PRESENCE OF A CITY INSPECTOR AFTER A TWO (2) WORKING DAY NOTICE PRIOR TO THE BEGINNING OF NEW WORK. THIS WILL ALLOW TIME TO PERMIT REVISION OF PLANS, AS NECESSARY, BECAUSE OF CONFLICTS WITH OTHER FACILITIES.
- THE EXISTENCE AND LOCATION OF SEWER FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING SEWER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING SEWER FACILITIES.
- THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK ON THE SEWERS. TO ARRANGE FOR INSPECTION CALL THE WATER UTILITIES DEPARTMENT AT (760) 435-5800.
- ALL SEWER HOUSE CONNECTIONS SHALL BE PLACED PRIOR TO SURFACING OF STREETS.
- ALL MANHOLES ARE TO BE COATED INSIDE WITH SAUERISEN SEWERGARD 210X, QUADEX, OR RAVEN 405.
- ALL MANHOLE COVERS FOR PRIVATE SEWER SYSTEMS SHALL BE MANUFACTURED WITH "PRIVATE SEWER" STAMPED ON TOP OF THE MANHOLE COVER.
- ALL MANHOLE COVERS FOR PUBLIC SEWER SYSTEMS SHALL BE MANUFACTURED WITH "CITY OF OCEANSIDE" STAMPED ON TOP OF THE MANHOLE COVERS.
- ALL SEWER MAINS SHALL BE INSPECTED BY CLOSED CIRCUIT TELEVISION AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL ACCEPTANCE. THE VIDEO RECORDING WILL TAKE PLACE AFTER COMPLETION OF TRENCH BACKFILL AND FINISH GRADING BUT PRIOR TO THE PLACEMENT OF PAVEMENT OR PERMANENT TRENCH RESURFACING TO DETERMINE THE EXISTENCE AND EXTENT OF ANY OBSTRUCTIONS, STRUCTURAL DEFICIENCIES, SAGS, OR FOREIGN MATERIAL. BOTH A VERBAL DESCRIPTION AND A WRITTEN MANUSCRIPT OF THE VIDEO WILL BE SUBMITTED TO THE WATER UTILITIES DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE. VIDEO RECORDING WILL MEET THE REQUIREMENTS OF TELEVISIONING SEWER MAINS IN THE APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED DESIGN & CONSTRUCTION MANUAL TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS."
- ALL SEWER MAINS WILL PASS A 95% MANDREL TEST AND AIR PRESSURE TEST PRIOR TO STREET PAVING, BUT AFTER ALL OTHER UTILITIES HAVE BEEN COMPLETED AND TESTING CERTIFIED COMPACTION APPROVED.
- SEWER PIPE SHALL BE BEDDED IN STRICT ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING S-2. BEDDING SHALL REMAIN UNDISTURBED BY SUBSEQUENT CONSTRUCTION.
- EACH PARCEL OR LOT SHALL HAVE A SEPARATE CONNECTION TO THE PUBLIC SEWER MAIN.
- SADDLE CONNECTIONS THAT CUT INTO SEWER MAINS SHALL NOT BE ACCEPTED WITHOUT APPROVAL OF THE WATER UTILITIES INSPECTOR. SEWER CONNECTIONS TO EXISTING SEWER MAINS SHALL BE CUT-IN WYE FITTINGS UNLESS OTHERWISE DIRECTED BY THE WATER UTILITIES INSPECTOR.
- SEWER PIPE SHALL BE STORED ON A FLAT SURFACE SO THE BARREL IS EVENLY SUPPORTED. DO NOT STACK PIPE HIGHER THAN 4 FEET. GASKETS SHALL BE STORED IN A COOL, DARK PLACE OUT OF CONTACT WITH OIL OR GREASE, AND ANY OTHER FOREIGN MATERIAL.
- NEW SEWER MAINS WILL NOT BE CONNECTED TO THE CITY'S SEWER SYSTEM UNTIL THE REQUIREMENTS FOR OCCUPANCY ARE MET. FLOWS WILL BE RETAINED WITHIN THE NEWLY CONSTRUCTED SYSTEM BY MEANS OF PLUGGING THE NEW SYSTEM WITH A SAND TRAP OR SIMILAR PLUGGING SYSTEM IN A PLACE THAT WILL NOT IMPAIR THE FUNCTION OF THE CITY'S SEWER SYSTEM.
- ALL SEWER LINES SHALL MEET ALL TESTING, CLEANING, AND VIDEOTAPING REQUIREMENTS, PRIOR TO CONNECTION TO THE CITY'S SEWER SYSTEM. NO TIE-IN CONNECTIONS WILL BE DONE UNTIL THE CITY HAS ACCEPTED THE NEW LINE.
- PRIOR TO RELEASING SEWAGE INTO THE CITY'S SEWER SYSTEM, THE CONTRACTOR SHALL: A) PERFORM AN AIR PRESSURE TEST PER SECTION 306-7.8.2.4 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION; B) WAYNEBALL OR HYDRO JET ALL LINES; AND, C) HAVE A VIDEO INSPECTION OF ALL LINES THAT HAS BEEN APPROVED BY THE WATER UTILITIES DEPARTMENT.
- A WATER INFILTRATION TEST SHALL BE PERFORMED ON ALL SEWER LINES LAID IN GROUNDWATER, PER SECTION 306-7.8.2.3 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.

- EXISTING SEWER MAINS WILL NOT BE USED FOR DISCHARGE OF STORM WATERS, DRAINAGE, OR OTHER SIMILAR USES PER CITY OF OCEANSIDE CODE, SECTION 29.131.
- ALL SEWER FORCE MAINS SHALL BE PROVIDED WITH AIR RELEASE AND VACUUM VALVES AT THE REQUIRED LOCATIONS. THE AIR VALVE ASSEMBLY SHALL BE EASILY ACCESSIBLE TO THE WATER UTILITIES DEPARTMENT FOR MAINTENANCE PURPOSES.
- DURING ANY ACTIVITY OR WORK AROUND, OR IN, AN EXISTING SEWER LINE, THE CONTRACTOR AT THEIR EXPENSE, WILL PROTECT THE SYSTEM BY INSTALLING "TRAPS" IN THE OUTLET SIDE OF THE CLOSEST MANHOLE. THE "TRAPS" AND THEIR LOCATION SHALL BE SUBMITTED TO THE WATER UTILITIES DEPARTMENT FOR APPROVAL. THE "TRAPS" WILL REMAIN IN PLACE UNTIL ALL REQUIREMENTS (TESTING, CLEANING, VIDEOTAPING, ETC.), HAVE BEEN COMPLETED AND APPROVED.
- UPON ACTIVATION OF A SEWER LINE, THE CONTRACTOR--AT THEIR EXPENSE--WILL PROTECT THE LINE FROM FOREIGN MATERIAL BY INSTALLING PLYWOOD, OR OTHER INSPECTOR APPROVED MATERIAL, OVER THE MANHOLE BASE UNTIL ALL GRADING, PAVING, AND MANHOLE RAISING IS COMPLETE AND ACCEPTED BY THE CITY.
- POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE AT THE TIME OF INSTALLATION. POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
- PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
- 3 INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED "SEWER" IN 1-1/2 INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED BEDDING MATERIAL ONE FOOT ABOVE AND CENTERED OVER THE SEWER MAIN PRIOR TO BACKFILLING THE TRENCH.
- ALL WATER DISCHARGE FROM CLEANING, VIDEO, AND OTHER ACTIVITIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD--SAN DIEGO REGION (SDRWQCB) REGULATIONS.
- CONNECTIONS TO A PUBLIC SEWER MAIN WITH A 6-INCH OR LARGER SEWER LATERAL SHALL BE MADE AT AN EXISTING MANHOLE, OR REQUIRE A NEW SEWER MANHOLE FOR CONNECTION PER SECTION 3.3 OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN AND CONSTRUCTION MANUAL.
- CONNECTION TO AN EXISTING SEWER MANHOLE WILL REQUIRE REHABILITATION OF THE MANHOLE PER CITY STANDARDS. REHABILITATION MAY INCLUDE, BUT NOT BE LIMITED TO, CLEANING, RE-CHANNELING OF THE MANHOLE BASE, SURFACE PREPARATION COATING THE INTERIOR OF THE MANHOLE, AND REPLACING THE MANHOLE CONE WITH A 36" OPENING AND DOUBLE RING MANHOLE FRAME AND LID.
- MANHOLES LOCATED IN AN EASEMENT SHALL BE EQUIPPED WITH A 36-INCH COMPOSITE LID WITH A LOCKING MECHANISM. MANHOLE LIDS SHALL BE EJ 3800 COMPOSITE MANHOLE AND FRAME WITH TITUS TWISTLIFT LOCK OR APPROVED EQUAL.



PROJECT ENGINEER/CONSULTANT

APPROVED CHANGES:

NO.	DESCRIPTION	APPY'D	DATE


CITY NAVD88 BENCHMARK:

Description: _____
 Location: _____
 Record From: _____
 Elev: _____ Datum: _____

WDID NO. _____ FILE # _____

SHEET 2	CITY OF OCEANSIDE ENGINEERING DIVISION	4 SHEETS
WATER AND SEWER NOTES		
PROJECT NAME PROJECT ADDRESS		
ACCEPTED BY _____ City Engineer: Brian K. Thomas PE 60907 DATE: _____		
Prepared under the direction of: _____	Reviewed By: _____	PLAN NUMBER MGPXX-XXXXX
Print Name: PE _____	Date: _____	

MINOR GRADING PLAN FOR PROJECT NAME/TITLE



UNDERGROUND SERVICE ALERT
SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG

ENGINEER SEAL
SIGNATURE

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Elev: _____ Datum: _____

WDID NO. _____ FILE # _____

SHEET 3	CITY OF OCEANSIDE ENGINEERING DIVISION	4 SHEETS
SITE PLAN AND TOPOGRAPHY		
PROJECT NAME/TITLE PROJECT ADDRESS		
ACCEPTED BY		
City Engineer: Brian K. Thomas PE 60907 DATE: _____		
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Print Name: _____ PE Date: _____		MGPXX-XXXXX

EROSION CONTROL PLAN FOR PROJECT NAME/TITLE

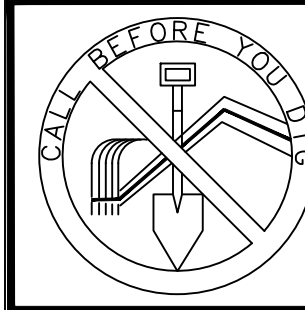
EROSION CONTROL NOTES

1. THE ENGINEER OF WORK IS REQUIRED TO CERTIFY THAT THE EROSION CONTROL MEASURES HAVE BEEN COMPLETED AND INSPECTED AND ENSURE THAT THE EROSION CONTROL PLAN IS UPDATED REFLECTING THE CURRENT CONDITIONS WITH ADEQUATE BMP CONTROL MEASURES AT ALL TIMES FOR AREAS IN WHICH VEGETATION HAS NOT BEEN PERMANENTLY ESTABLISHED AND/OR CONSTRUCTION IS NOT SCHEDULED TO COMMENCE WITHIN THE NEXT SEVEN (7) DAYS.
2. THE CONTRACTOR, PERMITTEE OR OWNER SHALL BE RESPONSIBLE FOR THE INSPECTION, MODIFICATION AND PROPER MAINTENANCE OF THE EROSION CONTROL DEVICES AS NECESSARY. IN THE EVENT OF FAILURE OR REFUSAL TO PROPERLY MAINTAIN SAID DEVICES, THE CITY ENGINEER MAY CAUSE EMERGENCY MAINTENANCE WORK TO BE DONE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY, THE COST (INCLUDING AN INITIAL MOBILIZATION AMOUNT) OF WHICH SHALL BE CHARGED TO THE OWNER.
3. ALL EROSION CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO SAFELY DISCHARGE ANY ACCELERATED RUNOFF GENERATED BY THE PROJECT SHALL BE INSTALLED DURING THE INITIAL CONSTRUCTION PHASE OF THE PROJECT.
4. THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL SYSTEMS SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED EROSION CONTROL PLAN.
5. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES AS RECOMMENDED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER.
6. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40-PERCENT.
7. EROSION CONTROL SYSTEMS SHALL BE SERVICED AND MAINTAINED TO PROVIDE CONTINUOUS CAPACITY AND ADEQUACY TO FUNCTION AS DESIGNED. AFTER PRECIPITATION EXCEEDING ONE-QUARTER (1/4) INCH IN ANY 12-HOUR PERIOD, OR UPON DIRECTION OF THE CITY ENGINEER, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS AND THE BASINS PUMPED DRY AND OTHERWISE RESTORED TO THE ORIGINAL DESIGN CONDITION.
8. DESILTING BASINS CONSTRUCTED OF COMPACTED EARTH SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 90 PERCENT OF MAXIMUM DENSITY. A SOIL ENGINEERING REPORT INCLUDING THE TYPE OF FIELD TESTING PERFORMED, LOCATION, AND RESULTS OF TESTING SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL UPON COMPLETING THE DESILTING BASIN.
9. EROSION CONTROL PROVISIONS SHALL INCLUDE AND COMPLEMENT DRAINAGE PATTERNS DURING THE CURRENT AND FUTURE PHASES OF GRADING THROUGHOUT THE RAINY SEASON.
10. THE CONTRACTOR, PERMITTEE, OR PROJECT OWNER SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION. NECESSARY PRECAUTIONS MAY INCLUDE, BUT NOT BE LIMITED TO, APPROPRIATE PERIMETER FENCING OR A 24-HOUR GUARD PREVENTING UNAUTHORIZED PERSONS FROM ENTERING THE BASINS.
11. GRADED AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY.
12. PAVED STREETS, SIDEWALKS, AND OTHER IMPROVEMENTS SHALL BE MAINTAINED IN A NEAT AND CLEAN CONDITION, FREE OF LOOSE SOIL, CONSTRUCTION DEBRIS, AND TRASH. STREET SWEEPING OR OTHER EQUALLY EFFECTIVE MEANS SHALL BE USED ON A REGULAR BASIS TO CONTROL EROSION. WATERING SHALL NOT BE USED TO CLEAN STREETS EXCEPT FOR THE REMOVAL OF FINE MATERIAL NOT OTHERWISE REMOVED BY SWEEPING OR OTHER MECHANICAL MEANS.
13. STAND-BY CREWS SHALL BE ALERTED BY THE CONTRACTOR, PERMITTEE OR OWNER FOR EMERGENCY WORK DURING RAINSTORMS.
14. GRAVEL BAGS AND NECESSARY MATERIALS IN ACCORDANCE WITH THE APPROVED PLANS, SHALL BE AVAILABLE ONSITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT. A STAND-BY CREW SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
15. ALL UTILITY TRENCHES SHALL BE BACKFILLED WITHIN 24 HOURS AND MUST BE BACKFILLED BEFORE THE END OF THE WORKDAY IF A 40-PERCENT CHANCE OF RAIN IS PREDICTED.
16. A GRAVEL BAG SILT BASIN OR TRAP SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
17. A 12-INCH HIGH BY 4-FOOT WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS. CONCENTRATED WATER SHALL BE CARRIED NOT CLOSER THAN 10 FEET FROM THE TOP OF SLOPES.
18. ALL BUILDING PADS SHALL BE SLOPED TOWARDS THE DRIVEWAY AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET. VELOCITY CHECK DAMS SHALL BE PROVIDED ACROSS THE OUTLETS OF ALL LOTS DRAINING INTO THE STREET.
19. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE CITY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS. CHECK DAM INSTALLATION SHALL PROVIDE FOR THE PREVENTION OF EROSION AROUND THE ENDS OF THE DAM.

GRADE OF THE STREET INTERVAL
LESS THAN 2% AS REQUIRED
2% TO 4% 100 FEET
4% TO 10% 50 FEET
OVER 10% 25 FEET
20. ALL EROSION CONTROL PLANS MUST PROVIDE A 24-HOUR TELEPHONE NUMBER AND THE NAME(S) OF THE PERSON(S) RESPONSIBLE FOR EMERGENCY WORK. A TELEPHONE ANSWERING MACHINE OR ANSWERING SERVICE IS UNACCEPTABLE.

CONTACT _____ NAME _____ (AREA CODE) NUMBER _____

WDID NO. _____ FILE # _____



UNDERGROUND SERVICE ALERT
SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG

ENGINEER SEAL
SIGNATURE

APPROVED CHANGES:

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CITY NAVD88 BENCHMARK:

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SHEET 4	CITY OF OCEANSIDE ENGINEERING DIVISION	4 SHEETS
EROSION CONTROL PLAN FOR: PROJECT NAME/TITLE PROJECT ADDRESS		
ACCEPTED BY _____		
City Engineer: Brian K. Thomas PE 60907 DATE: _____		
Prepared under the direction of: _____	Reviewed By: _____	PLAN NUMBER MGPXX-XXXXX
Print Name: _____ PE Date: _____		