= FLOOR DRAIN

= FLOOR SINK

= HOLLOW METAL

GYP. BD. = GYPSUM BOARD

= FIRE EXTINGUISHER

DETAIL NUMBER SHEET NUMBER WHERE DRAWN SHEET NUMBER WHERE DRAWN - EXTERIOR ELEVATION NUMBER SHEET NUMBER WHERE DRAWN (DOOR SCHEDULE) WINDOW NUMBER/LETTER (WINDOW SCHEDULE) ------ SPOT FINISH ELEVATION

ABBREVIATIONS / SYMBOLS LEGEND

INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL

ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTION 2602 AND 707 OF THE

ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, OR WEATHERSTRIPPED.

SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER STRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS)

MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER PER 2-53169(a)I. AFTER JULY I, 1993, MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES, ALSO ALL OVERHEAD DOORS OF APPARATUS ROOM, PROVIDE CERTIFICATES OF COMPLIANCE FOR DOORS, WINDOWS & INSULATION.

TITLE 24 MANDATORY MEASURES

THE COUNTY OF SAN BERNARDINO WISHES TO CONSTRUCT A NEW FIRE STATION FOR SAN BERNARDINO FIRE PROTECTION DISTRICT, THE NEW FIRE STATION WILL BE 10,764 S.F. THE BUILDING INCLUDES A THREE BAY APPARATUS W/ LOCKER ROOM, AN OFFICE, NINE SLEEPING QUARTERS, FIVE BATHROOMS, AN ACCESSIBLE RESTROOM, A KITCHEN, DAYROOM, LAUNDRY, FITNESS ROOM,

THE SITE FEATURES INCLUDE A 20 FT X 20 FT STORAGE BUILDING, A COVERED CMU WALL TRASH $\stackrel{\frown}{\Box}$ ENCLOSURE, DIESEL FUEL TANK AND AN EMERGENCY GENERATOR, HOSE DRYING RAMP, A METAL CAR CANOPY, AND CMU SITE WALLS.

SCOPE OF WORK/PROJECT DESCRIPTION

A <u>PRE-CONSTRUCTION CONFERENCE</u> WITH THE GEOTECHNICAL ENGINEER SHALL BE HELD AT THE SITE PRIOR TO THE INITIATION OF SITE GRADING TO ASSURE A COMPLETE UNDERSTANDING OF THE RECOMMENDATIONS PRESENTED IN THIS REPORT AS THEY APPLY TO THE ACTUAL GRADING PERFORMED.

THE FOLLOWING SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER:

BUILDING PAD - WHEN OVER EXCAVATION WORK HAS REACHED BOTTOM. <u>BUILDING PAD</u> - WHEN OVER EXCAVATION MATERIAL IS BEING PLACED. TESTS SHOULD BE TAKEN • 2'-0" VERTICAL INTERVALS.

MATERIAL IMPORT - WHEN PLACEMENT OF IMPORT MATERIAL, TESTS SHOULD BE TAKEN • 2'-0" VERTICAL INTERVALS.

CONCRETE - PRIOR TO ANY BUILDING OR SITE CONCRETE PLACEMENT. (NON-RETAINING CMU WALLS DO NOT REQUIRE TESTING)

CONCRETE - PRIOR TO THE PLACEMENT OF BASE, STEEL, & CONCRETE. THE CONCRETE SUB-GRADE SHOULD BE TESTED, THIS INCLUDES ALL CONCRETE

<u>SITE UTILITY TRENCHES</u> - ALL SITE UTILITY TRENCHES MUST BE TESTED FOR

SITE LIGHTING ELECTRICAL TRENCHES - ALL TRENCHES MUST BE TESTED FOR

_ANDSCAPE SLEEVES - ALL TRENCHES FOR LANDSCAPE SLEEVES MUST BE

TESTED FOR PROPER COMPACTION,

NOTE: THE GENERAL CONTRACTOR SHOULD BECOME FAMILIAR W/ THE SOILS REPORT PROVIDED AS PART OF THE SPECIFICATIONS.

GEOTECHNICAL INSPECTION CHECKLIST

SAN BERNARDINO COUNTY FIRE STATION #227 PROJECT # 10.10.1202

180 WEST 38TH STREET SAN BERNARDINO, CA. 92405

THE GENERAL BUILDING CONTRACTOR SHALL SUBMIT TO THE COUNTY OF SAN BERNARDINO PROJECT MANAGEMENT DIVISION THE FOLLOWING DOCUMENTS FOR REVIEW AND APPROVA PRIOR TO OBTAINING BUILDING PERMIT:

FIRE SPRINKLER SYSTEM SHALL BE DESIGNED, ENGINEERED AND BUILT BY GENERAL CONTRACTOR & FIRE SPRINKLER SUB-CONTRACTOR, GENERAL CONTRACTOR TO DESIGN THE SYSTEM TO MEET NFPA 13D IN THE LIVING AREA AND NFPA 13 LIGHT HAZARD IN THE APPARATUS BAYS, SPRINKLER PLANS SHALL BE SUBMITTED AND APPROVED BY THE FIRE PREVENTION BUREAU UNDER A SEPARATE PERMIT" [CBC 106.3.3], CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONING SYSTEM, INCLUDING ANY REQUIRED ELECT. WORKS, TRENCHING, ETC., TO THE OWNER AT NO ADDED COST.

2. COMPLY W/ C.B.C. SECTION 3303.7 - "PEDESTRIAN PROTECTION" DURING CONSTRUCTION. GENERAL CONTRACTOR TO PROVIDE ALL BACKING/FRAMING AS NECESSARY FOR LIGHTS, GRAB BARS, PLASTER REVEALS, SIGNS, ETC. WITH NO ADDED COST TO THE OWNER.

DEFERRED SUBMITTAL / SEPARATE PERMITS

THE FOLLOWING ARE UNDER DEFERRED SUBMITTAL/SEPARATE PERMITS (TO BE OBTAINED BY THE GENERAL CONTRACTOR):

- SITE WALLS · ABOVE GROUND FUEL TANK (FIRE DEPT. & SAN BERNARDINO - FLAGPOLE COUNTY ENVIRONMENTAL HEALTH APPROVAL REQUIRED). - LIGHT POLES EMERGENCY DIESEL GENERATOR · UNDERGROUND FIRE LINE FROM STREET MAIN TO BUILDING - FIRE SPRINKLER SYSTEM - METAL CANOPY (PARKING)

- TRUSSES - ELECTRICAL TRANSFORMER PAD (BASE) AND CONNECTION TO PAD.

SUBMITTAL DOCUMENTS (PLANS & CALCULATIONS) FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING, THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

5. CLEANOUTS INSTALLED UNDER CONCRETE OR ASPHALT PAVING SHALL BE ACCESSIBLE BY YARD BOXES, OR EXTENDED FLUSH WITH PAVING WITH A "BRASS CAP" OR OTHER APPROVED MATERIAL WHEN SUBJECT TO VEHICULAR TRAFFIC. [TMCC 15:0.04(F)]

6. ELECTRICAL CONDUITS IN COMMERCIAL BUILDINGS TO BE BURIED 6" BELOW CONCRETE

VERTICAL GLAZING SHALL HAVE U-FACTORS PER NFRC 100-SB OR DEFAULT VALUES PER APPENDIX I OR ACM MANUAL. [CEC EXCEPTION TO II6(A) 2]

8. <u>REQUIRED SPECIAL INSPECTIONS</u>

THE FOLLOWING SPECIAL INSPECTIONS PER 2022 C.B.C. ARE REQUIRED:

-- SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTIONS. -- STRUCTURAL CONCRETE OVER 2,500 P.S.I.

SLAB. [TMCC |5.04.050(C)]

-- FIELD WELDING. -- HIGH-STRENGTH BOLTS.

-- EXPANSION EPOXY ANCHORS. -- PROVIDE STRUCTURAL SPECIAL INSPECTIONS, SEE SHEET SO.I.

STRUCTURAL OBSERVATION BY THE ENGINEER/ARCHITECT SHALL BE PERFORMED, A STATEMENT IN WRITING SHALL BE GIVEN TO THE BUILDING OFFICIAL, STATING THAT THE SITE VISIT HAVE BEEN MADE AND WHETHER OR NOT ANY OBSERVED DEFICIENCIES HAVE BEEN CORBELTED TO CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.

IO. WHEN SERVING MORE THAN 100 SPRINKLER HEADS, AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE, STATION SERVICE, OR SHALL BE PROVIDED WITH A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION, SECTION 904.3, GENERAL CONTRACTOR SHALL PROVIDE FIRE ALARM AS REQUIRED BY THE FIRE DEPARTMENT. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONING SYSTEM, INCLUDING ANY REQUIRED ELECT. WORKS, TRENCHING, ETC., TO THE OWNER AT NO ADDED COST.

NO HAZARDOUS MATERIALS ARE TO BE STORED OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES IN U.B.C. TABLES 3-D & 3-E. 2019 CBC.

12. PROVIDE A COMPLETE CATV SYSTEM INCLUDING CABLE/WIRE/CONDUIT FOR PER ELECT'L AND SHEETS AO.I, DATA I.I.

13. GENERAL CONTRACTOR SHALL PAINT FIRE LANES CURBS THROUGHOUT ALL VEHICLE ACCESS LANES AS REQUIRED BY THE COUNTY OF SAN BERNARDINO FIRE DEPARTMENT AT NO ADDED COST TO OWNER. FIRE LANE CURBS SHALL BE PAINTED SAFETY RED. STENCILING SHALL BE PROVIDED IN WHITE 3-INCH LETTERS ON THE TOP OF THE CURB EVERY 30 FEET ON CENTER STATING: "NO PARKING FIRE LANE".

14. THE UNDERGROUND FIRE LINE IS NOT TO BE CONSTRUCTED UNTIL THE ABOVEGROUND FIRE SPRINKLER SYSTEM PLANS HAVE BEEN APPROVED BY THE COUNTY OF SAN BERNARDINO FIRE DEPARTMENT AND DISTRIBUTED TO ALL PARTIES (ARCHITECT AND OWNER).

15. GENERAL CONTRACTOR TO COORDINATE / PROVIDE A "FIBER OPTIC" PHONE LINE FROM TELEPHONE COMPANY TO TELEPHONE BACK BOARD.

16. IF VEGETATION REMOVAL IS CONDUCTED DURING THE NESTING SEASON (FEBRUARY TO AUGUST). A QUALIFIED BIOLOGIST HIRE BY THE OWNER/ARCHITECT WILL NEED TO CONDUCT A PRE-CONSTRUCTION SURVEY FOR NESTING BIRDS WITHIN 7-DAYS OF ANY VEGETATION REMOVAL OR INITIAL GROUND DISTURBING ACTIVITIES.

IF NESTING BIRDS AND/OR ANY NESTING ACTIVITIES ARE IDENTIFIED DURING THE PRE-CONSTRUCTION SURVEY, CONSTRUCTION ACTIVITIES WILL NEED TO AVOID THIS NEST UNTIL THE NESTLINGS HAVE FLEDGED THE NEST, A CONSTRUCTION-FREE PERIMETER SHALL BE SET UP AROUND THE ACTIVE NEST AT DISTANCES SPECIFIED BY THE BIOLOGICAL MONITOR. THIS TYPICALLY BETWEEN 50 AND 250 FEET. THIS PERIMETER CAN EXPAND TO 500 FEET FOR FEDERALLY OR STATE LISTED SPECIES AND/OR RAPTORS SUCH AS OWLS, HAWKS AND EAGLES. THE BIOLOGICAL MONITOR CAN ADJUST THIS CONSTRUCTION-FREE PERIMETER BASED ON THE BEHAVIOR OF THE NESTING BIRDS. THE BUFFER AREAS WILL REMAIN IN PLACE UNTIL THE NESTLINGS HAVE FLEDGED OR THE NEST IS NO LONGER ACTIVE (OFTEN DUE TO PREDATION), IF FOR ANY REASON, CONSTRUCTION ACTIVITIES ARE POSTPONED DURING THE NESTING SEASON FOR 14 OR MORE DAYS AND SUITABLE NESTING HABITAT REMAINS ON-SITE, ANOTHER PRE-CONSTRUCTION SURVEY MAY BE REQUIRED WITHIN 7 DAYS OF CONTINUING VEGETATION REMOVAL, FOLLOWING THE END THE PRE-CONSTRUCTION SURVEY A SHORT MEMO WILL BE PREPARED DOCUMENTING THE RESULTS.

CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER 7-DAYS PRIOR TO ANY SCHEDULED VEGETATION DISTURBANCE.

THERE ARE NO AS BUILT PLANS FOR UNDERGROUND UTILITIES AND IRRIGATION AVAILABLE CONTRACTOR SHALL TAKE SPECIAL CARE TO LOCATE ALL UNDERGROUND UTILITIES AND IRRIGATION LINES TO AVOID DAMAGE PRIOR TO EXCAVATION, CONTRACTOR SHALL REPAIR. RELOCATE, AND OR RE-ROUTE ANY UTILITIES AND OR IRRIGATION LINES FOUND TO BE IN CONFLICT WITH THE NEW CONSTRUCTION AT NO ADDED COST TO OWNER TO PROVIDE A FULLY FUNCTIONAL SYSTEM.

[907.2.11.5 CBC] WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT OR SLEEPING UNIT IN GROUP R OCCUPANCIES, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM, THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.

[907.2.II.6 CBC] IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM IN ACCORDANCE WITH SECTION 2702. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARA LOW, WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER

THAN AS REQUIRED FOR OVERCURRENT PROTECTION.

FIRE STATION OCCUPANCY GROUP TYPE OF CONSTRUCTION

HEIGHT (ALLOWABLE 40'-0")

BASIC ALLOWABLE FLOOR AREA ACTUAL WORK/SLEEP FLOOR AREA

SPRINKLERED (YES/NO)

<u>APPARATUS BAY</u>

ASSESSOR'S PARCEL NUMBERS:

DCCUPANCY GROUP TYPE OF CONSTRUCTION SPRINKLERED (YES/NO)

HEIGHT (ALLOWABLE 60'-0") = 26'-8" ACTUAL APPARATUS BAY FLOOR AREA

BASIC ALLOWABLE FLOOR AREA = 54,000 S.F. = 5,800 S.F. < 54,000 F.S. (OK)

TOTAL FLOOR AREA (FIRE STATION & APPARATUS)

STORAGE BUILDING

OCCUPANCY GROUP TYPE OF CONSTRUCTION = V-B SPRINKLERED (YES/NO) = NO = |

= 14'-0" BASIC ALLOWABLE FLOOR AREA = 9,000 S.F. = 400 S.F. < 9.000 S.F. (OK) ACTUAL STORAGE BLDG, FLOOR AREA

A PORTION OF 015-4281-01

= B, R2

= V-B

= YES

= V-B

= YES

= 20'-3"

= 28,000 S.F.

= 4,964 S.F. < 28,000 S.F. (OK)

LIST OF APPLICABLE CODES

ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED:

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2021 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.

(2021 UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE 2022 CALIFORNIA ENERGY CODE

AMERICANS WITH DISABILITIES ACT 1990 WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2010 REVISIONS TO TITLE II

SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT ERNESTO GONZALEZ, PROJECT MANAGER 385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415 PHONE: (909) 387-5000

<u>ARCHITECT</u>

STK ARCHITECTURE, INC. TONY FINALDI, ARCHITECT 42095 ZEVO DRIVE, STE. A-15 TEMECULA, CA 92590

951-296-9110 / Tfinaldiestkinc.com MPE ENGINEER

SALAS O'BRIEN ED DAVID, P.E. 3220 EXECUTIVE RIDGE, STE. 210 VISTA, CA 92081 (760) 560-0100

LANDSCAPE ARCHITECT ALHAMBRA GROUP VINCE DI DONATO 41635 ENTERPRISE CIRCLE N., STE, C TEMECULA, CA 92590 951-296-6802 / Vince@alhambragroup.net

INNOVATIVE STRUCTURAL ENGINEERING SHAWN LOTHROP, P.E., S.E. / CEO 27369 VIA INDUSTRIA TEMECULA, CA 92590 951-600-0032 / Shawnoiseengineers.com

909-890-1255 / Matterscinc.com

ALLEN EVANS, PE SAN JACINTO, CA 92581 (951) 654-1555 / aevans@inlandfoundation.com

−W. 38TH E PARKDALE DR F<u>OOTHI</u>LL FWY

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CONSULTANT:

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES

MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO **COUNTY FIRE** DEPARTMENT:

PROJECT # 10.10.1202

CIP #22-105

APN Part of 0154-281-01

FIRE STATION 227

180 W. 38TH STREET

SAN BERNARDINO,

CA 92405

ISSUE INFORMATION: INFORMATION: PROGRESS 12-20-24 95% CDs Plan Check 🔟 05-09-25 Plan Check <u>/2\</u> 97-25-25 | BID SET | 08-22-25 | BID SET

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24 AS NOTED DECEMBER 2024 PLOT DATE: DRAWING NAME:



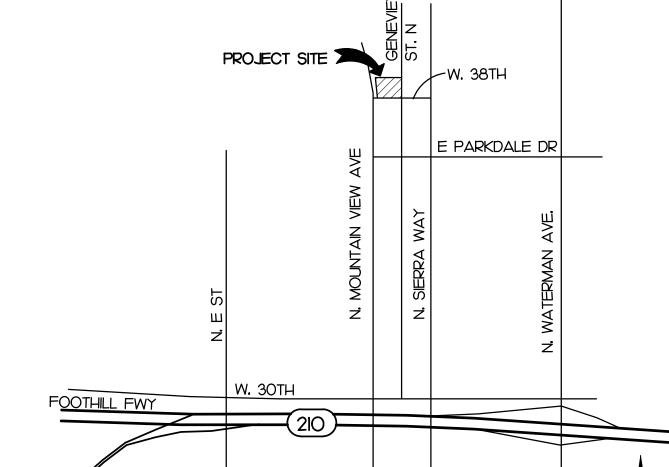
TITLE SHEET

NOTES TO GENERAL CONTRACTOR

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VICINITY MAP

LEGAL DESCRIPTION/CODE ANALYSIS



<u>CIVIL ENGINEER</u> ERSC REDLANDS LOCATION MATT BRUDIN, P.E. / PRINCIPAL 1861 W REDLANDS BLVD. REDLANDS, CA 92373

STRUCTURAL ENGINEER

GEOTECHNICAL ENGINEER INLAND FOUNDATON ENGINEERING 1310 S. SANTA FE AVENUE

CA GREEN BUILDING CODE REQUIREMENTS

- STORM WATER POLLUTION PREVENTION: Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through Local ordinances - SWPPP. The SWPPP shall be designed conforming to the State Storm Water NPDES Construction Permit and be specific to the site, CGBC Section 5.106.1
- 2. BICYCLE PARKING: Shall comply with the requirements of CGBC 5.106.4.1 and 5.106.4.2. Provide for short term and long term bicycle parking.
- 3.1 DESIGNATED PARKING for CLEAN AIR VEHICLES: Provide designated parking for low-emitting, fuel-efficient and carpool/van pool vehicles per CGBC Table 5.106.5.2, and mark CLEAN AIR VEHICLE, CGBC 5,106,5,2
- 3.2 ELECTRIC VEHICLE CHARGING: Provide charging space requiements, amount of spaces and identification per CGBC 5.106.5.3.1-4
- 4. LIGHT POLLUTION REDUCTION: Design interior and exterior lighting such that zero direct-beam illumination leaves the building site. CGBC 5.106.8
- GRADING and PAVING: The site shall be planned and developed to keep surface water from entering building, CGBC 5.106.10
- ENERGY EFFICIENCY: California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards. CGBC 5.201.1
- 7. WATER CONSERVING FIXTURES: Plumbing fixtures and fittings shall meet the Standards Referenced in table 5.303.3. Reduce potable water use by at least 20 percent, CGBC 5.303.2
- 8. OUTDOOR WATER USE: The provisions of Section 5.304, Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, California Code of Regulations.
- 9. OUTDOOR WATER USE: REHABILITATED LANDSCAPE PROJECTS EQUAL TO OR GREATER THAN 2,500 SQUARE FEET. Rehabilitated landscape project with an aggregate landscape area equal to or greater than 2.500 square feet requiring a building or landscape permit, plan check, or design review shall comply with CGBC 5.304.2, Item 1 or 2.
- 10. OUTDOOR WATER USE: Areas equal to or greater than 500 SF. When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following shall apply: A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resouces (DWR) per Government Code Section 65595(c). The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations.CGBC 5.304.2
- II. OUTDOOR WATER USE IN LANDSCAPE AREAS 2,500 SF and Less: Any project with an aggregate area of 2,500 square feet of less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D. CGBC 5.304.4
- Automatic irrigation controllers that are weather- or soil moisture-based shall be installed at the time of final inspection. CGBC 5.304.3.1
- 13. SPRINKLERS: Sprinklers shall be designed to prevent spray on structures CGBC 5.407.2.1
- 14. ENTRIES AND OPENINGS: Exterior entries and openings shall be designed to prevent water intrusion into buildings. CGBC 5.407.2.2.1 Install flashing integrated with a drainage plane, CGBC 5.407.2.2.2
- 15. CONSTRUCTION WASTE REDUCTION: Reduce construction waste by recycling or salvaging for re-use a minimum of 65 percent of the nonhazardous construction and demolition debris, or meet the local construction and demolition waste management ordinance, whichever is more stringent. CGBC 5.408.3
- CONSTRUCTION WASTE REDUCTION: A construction waste management plan shall be provided prior to start of construction. CGBC 5.408.1.1
- 17. CONSTRUCTION WASTE REDUCTION: Provide a construction waste management plan and documentation which complies with CGBC 5.408.1.1
- 18. EXCAVATED SOIL and LAND CLEARING DEBRIS: 100% of trees, stumps, rocks, and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. CGBC 5.408.4
- 19. RECYCLING BY OCCUPANTS: Readily accessible areas for recycling paper, corrugated cardboard, glass, plastics and metals shall be provided to serve the entire building CGBC
- 20. Provide commissioning requirements as listed. Include owner's project requirement, basis of design, commissioning plan, and all other requirements per CGBC 5.410.2.1-2
- POLLUTANT CONTROL: All duct openings and other air distribution component openings shall be protected during storage on the construction site until final start-up with tape, plastic, sheet metal, or other acceptable methods to reduce the amount of dust and debris which may collect in the system. CGBC 5.504.3
- 22. FINISH MATERIAL POLLUTANT CONTROL: Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits and prohibition on the use of certain toxic chemicals, except per subsection 2. CGBC 5.504.4.1, subsection 1
- 23. ADHESIVES, SEALANTS AND CAULKS: Aerosol adhesives, smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packing, which do not weigh more than I pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on the use of certain toxic compounds, of CCR, Title 17, commencing with Section 94507. CGBC 5.504.4.1, subsection 2
- 24. PAINTS AND COATINGS: VOC Content Limits for Architectural Coatings (Architectural Paints) shall comply with CGBC Table 5.504.4.3, unless more stringent local limits apply. CGBC 5.504.4.3
- 25. PAINTS AND COATINGS: Aerosol paints and coatings shall meet the requirements of Sections 94522(a)(3), 94522(c)(2), and (d)(2) of California Code of Regulations, Title 17 commencing with Section 94520. CGBC 5.504.4.3.I)
- 26. CARPET SYSTEMS: Carpets shall meet one of the following: I. Carpet and Rug Institute's Green Label Plus Program, 2. California Department of Public Health Standard testing of VOCs (Specification 01350), 3. NSF/ANSI 140 at the Gold Level. 4. Scientific Certifications Systems Indoor AdvantageTM Gold. CGBC Practice for the 5.504.4.4
- 27. CARPET SYSTEMS: Carpet cushion shall meet the requirements of the Carpet and Rug Institute Green Label Program, carpet adhesive shall meet the requirements of Table CGBC 5.504.4.4.1, 5.504.4.4.2
- 28. COMPOSITE WOOD PRODUCTS: Hardwood plywood, particleboard, and medium density fiberboard composite wood products shall meet the requirements for Formaldehyde Limits in Table 5.504.4.5. and as specified AN ARBs Air Toxics Control Measure for Composite Wood. GBC 5.504.4.5.
- 29. RESILIENT FLOORING SYSTEMS: At least 80 percent of the floor area shall comply with VOC emission limits defined in the 2009 Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or certified under the Resilient Floor Covering Institute (RFCI) FloorScore program. CGBC 5.504.4.7
- 30. DOCUMENTATION/VERIFICATION of COMPLIANCE: Pollutant control documentation shall be provided to indicate compliance with Section 5.504 and shall include at least one of the following: Product certifications and specifications, chain of custody certifications, or other methods acceptable to the enforcing agency. CGBC 5.504.4.5.2
- 31. FILTERS: Provide filters with a Minimum Efficiency Reporting Value (MERV) of at least 8 for outside and return air in regularly occupied areas of mechanically ventilated buildings. CGBC 5.504.5.3
- 32. ENVIRONMENTAL TOBACCO SMOKE: Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes, and operable
- 33. INDOOR MOISTURE CONTROL: buildings shall comply with CBC Section 1203 (Ventilation) and Chapter 14 (Exterior Walls). CGBC 5.505. Also refer to the requirements of CGBC 5.407 that reference CBC Section 1403.2 (Weather Protection), CEC section 150 (Mandatory Features and Devices), and text indicating the proper design of sprinklers and building openings shall help assure water remains outside the building. CGBC 5.505.1 31. For indoor air quality, meet the requirements of the CEC for outside air delivery and carbon dioxide monitoring. CGBC 5.506
- 34. HVAC, refrigeration, and fire-suppression equipment shall not contain CFCs or Halon. CGBC 5.508
- Provide an operation and maintenance manual with content per 5.410.4.5 (when new construction is over 10,000SF) and in a format acceptable to the Enforcing Agency shall be placed in the building at the time of Final Inspection. CGBC 5.410.4.5
- 36. ENVIRONMENTAL COMFORT: Roof and wall assemblies exposed to noise sources shall have an STC rating of at least 50, with exterior windows having a minimum of 40 in the following locations, per CBGC 5.507.4 (or as directed by the Building Official):
 - a) Within the 65 CNEL Noise Contour of a freeway, railroad or industrial source, as determined by the jurisdiction"s Noise Element of the General Plan. b) Within the 65 CNEL contour of an airport.
- 37. OUTDOOR AIR QUALITY: Ozone Depletion and Greenhouse Gas Reductions. installations of HVAC, Refrigeration and Fire Suppression Equipment shall comply with SECTIONS 5.508.I.I AND 5.508.I.2.
- 38. 5.508.I.I CHLOROFLUOROCARBONS (CFCS), INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.
- 39. 5.508.I.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

windows and in buildings. Meet additional and more stringent requirements in applicable ordinances, regulations, and policies. CGBC 5.504.7

CALGreen VERIFICATION GUIDELINES MANDATORY MEASURES CHECKLIST 2022 CALGreen Code with July 1, 2024 Supplement

Application: This checklist shall be used for nonresidential projects that meet one of the following: new construction, building additions of 1,000 square feet or greater, or building alterations with a permit valuation of \$200,000 or more pursuant to Section 301.3 AND do not trigger a Tier 1 or Tier 2 requirement:

Y = Yes (section has been selected and/or included) N/A = Not Applicable (code section does not apply to the project—mainly used for additions

[N] = New construction pursuant to Section 301.3 [A] = Additions and/or Alterations pursuant to Section 301.3

[A] - Additions and/or /
Chapter 5 Divisions

O = Other (provide explanation)

Requirement	SECTION TITLE	CODE SECTION	Υ	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Deconstruction and reuse of existing structures, Scope with Exception	<u>5.105.1</u>		×			
<u>Mandatory</u>	Reuse of existing building & Verification of compliance with note	5.105.2 and 5.105.2.1		\times			
Mandatory	Storm water pollution prevention for projects that disturb less than 1 acre of land	5.106.1 through 5.106.2			×		
Mandatory	Short-term bicycle parking (with exception)	5.106.4.1.1	\times				T1.2
Mandatory	Long-term bicycle parking	5.106.4.1.2 through 5.106.4.1.5			\times		
<u>Mandatory</u>	Electric vehicle (EV) charging [N] with Section 5.106.3.1, 5.106.5.3.2 and associated Table 5.106.5.3.1	5.106.5.3.1, 5.106.5.3.2, Table 5.106.5.3.1, 5.106.5.3.2.1, 5.106.5.3.2.2, 5.106.5.3.3, 5.106.5.3.4 and 5.106.5.3.5.	×				T1.2

Requirement	SECTION TITLE	CODE SECTION	Υ	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
	Power Allocation Method: Section 5.106.5.3.6 and associated Table 5.106.5.3.6	<u>5.106.5.3.6,</u> <u>Table</u> <u>5.106.5.3.6,</u> <u>5.106.5.3.4,</u> <u>5.106.5.3.4,</u> <u>and</u> <u>5.106.5.3.5,</u>			×		
<u>Mandatory</u>	Additions or Alterations to existing buildings or parking facilities [A] with Exceptions	5.106.5.4			×		
<u>Mandatory</u>	Existing buildings or parking areas without previously installed EV capable infrastructure [A].	5.106.5.4.1	4		×		
<u>Mandatory</u>	Existing buildings or parking areas with previously installed EV capable infrastructure [A].	5.106.5.4.2			×		
Mandatory	Electric vehicle (EV) charging: medium-duty and heavy-duty [N]	5.106.5.5			\times		
Mandatory	Electric vehicle charging readiness requirements for warehouses, grocery stores and retail stores with planned off-street loading spaces [N]	5.106.5.5.1			×		
Mandatory	TABLE 5.106.5.5.1	5.106.5.5 and 5.106.5.5.1	\times				T1.2
Mandatory	Light pollution reduction [N] (with exceptions, notes and table)	5.106.8 through 5.106.8.2			×		
Mandatory	Grading and paving (exception for additions and alterations not altering the drainage path)	5.106.10	×				T1.2

CODE Y N N/A O PLAN SHEET, SPEC,

OR ATTACH

REFERENCE

SECTION TITLE

Life Cycle Assessment, Scope, Whole building

life cycle assessment with Notes, Building

ndatory Life Cycle Assessment, 5.409.1,

study period, and

compliance –

Exception and

Verification of

(with exception)

additions (with

sample ordinance Commissioning new buildings (≥ 10,000 sf)

Owner's or owner

Mandatory

epresentative's Project

Requirements (OPR) [N]

Documentation and

Systems manual [N]

Systems operation

training [N]

prescriptive path, 5.409.3.1 with

Exception EQUATION,

compliance and Product GWP Limits Table with

Recycling by occupants 5.410.1

Recycling by occupants: 5.410.1.1

Recycling by occupants: 5.410.1.2

Basis of Design (BOD) 5.410.2.2

Commissioning plan [N] 5.410.2.3

Functional performance 5.410.2.4

5.410.2.5

5.410.2.5.1

components, Reference study period, and 5.409.2.3

SECTION

and Table 5.409.3

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Meet the minimum energy efficiency standard	5.201.1	\times				T1.2
	DIVISION 5.3 W	ator Efficien	cv a	nd (oneo	nyat	tion
Requirement	SECTION TITLE	CODE SECTION	Y			0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Separate meters (new buildings or additions > 50,000 sfthat consume more than 100 gal/day)	5.303.1.1			×		
Mandatory	Separate meters (for tenants in new buildings or additions that consume more than 1,000 gal/day)	5.303.1.2			×		
Mandatory	Water closets shall not exceed 1.28 gallons per flush (gpf)	5.303.3.1	×				PO.1
Mandatory	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.1	×				PO.1
Mandatory	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2					
Mandatory	Single showerhead shall have maximum flow rate of 1.8 gpm (gallons per minute) at 80 psi	5.303.3.3.1	×		3 9		PO.1
Mandatory	Multiple showerheads serving one shower shall have a combined flow rate of 1.8 gpm at 80 psi	5.303.3.3.2			X		
Mandatory	Nonresidential lavatory faucets	5.303.3.4.1			×		
Mandatory	Kitchen faucets	5.303.3.4.2			\times		
Mandatory	Wash fountains	5.303.3.4.3			×		
Mandatory	Metering faucets	5.303.3.4.4	-		×		

Requirement	SECTION TITLE	CODE SECTION	Υ	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Commissioning report [N]	5.410.2.6			×		
Mandatory	Testing and adjusting for new buildings < 10,000 sf or new systems that serve additions or alterations [A]	5.410.4	X				MO.1
Mandatory	System testing plan for renewable energy, landscape irrigation and water reuse [A]	5.410.4.2	×				MO.1
Mandatory	Procedures for testing and adjusting	5.410.4.3	\times				MO.1
Mandatory	Procedures for HVAC balancing	5.410.4.3.1	\times				MO.1
Mandatory	Reporting for testing and adjusting	5.410.4.4	\times				
Mandatory	Operation and maintenance (O&M) manual	5.410.4.5	\times				MO.1
Mandatory	Inspection and reports	5.410.4.5.1	\times				MO.1

5.503.1.1

5.504.3

5.504.4.3

MO.1

Temporary ventilation

mechanical equipment

Adhesives, sealants,

Paints and coatings

Aerosol paints and

Covering of ducts

openings and

protection of

and caulks

	wash fountains				\times		
Mandatory	Pre-rinse spray valve	5.303.3.4.6			\times		
Mandatory	Food waste disposers	5.303.4.1			\times		
Mandatory	Areas of additions or alterations	5.303.5			\times		
Mandatory	Standards for plumbing fixtures and fittings	5.303.6	\times				T1.2
Mandatory	Outdoor potable water use in landscape areas (with notes)	5.304.1	Х				T1.2
	DIVISION 5.4 Material	Conservatio	n ar	nd R	esour	ce l	Efficiency
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Weather protection	5.407.1	\times				T1.2
Mandatory	Moisture control: sprinklers	5.407.2.1	×				T1.2
Mandatory	Moisture control: exterior door protection	5.407.2.2.1	\times				T1.2
Mandatory	Moisture control: flashing	5.407.2.2.2	×				T1.2
Mandatory	Construction waste management—comply with either: Sections 5.408.1.1, 5.408.1.2, 5.408.1.3 or more stringent local ordinance	5.408.1.1, 5.408.1.2, 5.408.1.3	>				T1.2
Mandatory	Construction waste management: documentation	5.408.1.4	×				T1.2
Mandatory	Universal waste [A]	5.408.2			×		5
Mandatory	Excavated soil and land clearing debris (100% reuse orrecycle) with	5.408.3	\times				T1.2

SECTION TITLE CODE Y N N/A O PLAN SHEET, SPEC.

OR ATTACH

REFERENCE

SECTION

Mandatory Metering faucets for 5.303.3.4.5

Requirement SE

Mandatory

Mandatory Mandatory Mandatory

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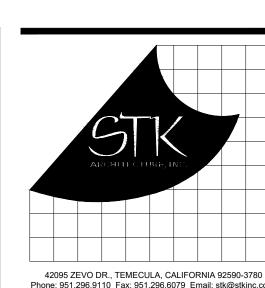
Mandatory

Mandatory

CTION TITLE	CODE SECTION	Y	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE	Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	0	PLAI OR A REFI
rosol paints and	5.504.4.3.2					T1.2	Mandatory	Performance method	5.507.4.2			×		
tings: verification	5.504.4.4	×			<u> </u>		Mandatory	Site features	5.507.4.2.1			\times		
pet systems pet cushion	5.504.4.4	rightarrow	-	\times	۱.	T1.2	Mandatory	Documentation of compliance	5.507.4.2.2	}		\times		
pet adhesives per le 5.504.4.1	5.504.4.4.2	\times				T1.2	Mandatory	Interior sound transmission (with note)	5.507.4.3	\succ	 			T1.2
nposite wood ducts	5.504.4.5			×			Mandatory	Ozone depletion and greenhouse gas reductions	5.508.1	×				T1.2
nposite wood ducts: umentation	5.504.4.5.3						Mandatory	Chlorofluorocarbons (CFCs)	5.508.1.1	\times			0 0	T1.:
silient flooring tems	5.504.4.6	×				T1.2	Mandatory Mandatory	Halons	5.508.1.2 5.508.2	×				T1.2
llient flooring: ication of pliance	5.504.4.6.1	×				T1.2	Manuatory	Supermarket refrigerant leak reduction for retail food stores 8,000 square	through 5.508.2.6.3	á		×		
rmal insulation	5.504.4.7	$ mid \times$				T1.2	-	feet or more			_			
fication of pliance	5.504.4.7.1	×				T1.2		END OF MANDATORY PROVISIONS						
ustical ceilings and panels	5.504.4.8	×				T1.2					12777111			
fication of pliance	5.504.4.8.1	×				T1.2	□ Mandat	n Author's / Responsible D ory: I attest that this mandat and complete.	esigner's Dec ory provisions	larat chec	ion S klist i	Staten S	nent	
rs (with exceptions)	5.504.5.3	$\overline{\times}$				T1.2	Signature:	00.000.000.000.000.000.000.000.000.000						
rs: labeling	5.504.5.3.1	\times	()			T1.2	oignature.							
ronmental tobacco ke (ETS) control	5.504.7	$\overline{\times}$				T1.2	Company:							Date:
or moisture control	5.505.1	\overline{x}				T1.2	Address:							Licen
ide air delivery	5.506.1	$\overline{\times}$				T1.2	City/State/Zip:							Phone
oon dioxide (CO2)	5.506.2	×				T1.2	g25							1
oustical control (with eption)	5.507.4			×										
erior noise	5.507.4.1													

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	0	PLAN SHEET, SPEC, OR ATTACH REFERENCE
Mandatory	Performance method	5.507.4.2			\times		
Mandatory	Site features	5.507.4.2.1			\times		
Mandatory	Documentation of compliance	5.507.4.2.2			×		
Mandatory	Interior sound transmission (with note)	5.507.4.3	×				T1.2
Mandatory	Ozone depletion and greenhouse gas reductions	5.508.1	×				T1.2
Mandatory	Chlorofluorocarbons (CFCs)	5.508.1.1	×				T1.2
Mandatory	Halons	5.508.1.2	\boxtimes				T1.2
Mandatory	Supermarket refrigerant leak reduction for retail food stores 8,000 square feet or more	5.508.2 through 5.508.2.6.3			×		
	END OF MANDATORY PROVISIONS						

Documentation Author's / Responsible Designer's Mandatory: I attest that this mandatory provis accurate and complete.	ions checklist is
Signature:	
Company:	Date:
Address:	License:
City/State/Zip:	Phone:



CONSULTANT:

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO **COUNTY FIRE** DEPARTMENT:

FIRE STATION 227

PROJECT # 10.10.1202

CIP #22-105

APN Part of 0154-281-01

180 W. 38TH STREET SAN BERNARDINO,

CA 92405

ISSUE INFOR	RMATION:
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check 🛆
05-09-25	Plan Check 🖄
07-25-25	BID SET
08-22-25	BID SET

SHEET INFORMATION: STK PROJECT NO.: 374-193-24

AS NOTED DATE: DECEMBER 2024 PLOT DATE: DRAWING NAME:



CAL GREEN

I transmission.

prescriptive method

noise contours are not readily available

Noise exposure where 5.507.4.1.1

(with exceptions)

GRADING NOTES

- 1. ALL GRADING SHALL CONFORM TO THE LATEST CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18, APPENDIX-J AND ALL APPLICABLE
- 2. A GRADING PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY WORK ON THE SITE.
- 3. ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER REGULATORY AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED IN THIS PLAN.
- 4. ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. A SEPARATE CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS MAY BE REQUIRED FOR ANY WORK WITHIN THE COUNTY
- 5. APPROVAL OF THESE PLANS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE EFFECTIVE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED
- 6. THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ONSITE OR OFFSITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES.
- PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING OFFSITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE APPROVED BUILDING PERMIT PLANS. OFFSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.
- 7. MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL) AND MAXIMUM VERTICAL HEIGHT = 30 FEET, UNLESS AN APPROVED GEOTECHNICAL REPORT CAN JUSTIFY A STEEPER AND TALLER SLOPE.
- 8. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL
- 9. FILL SLOPES SHALL NOT HAVE LESS THAN 90% RELATIVE COMPACTION, OR AS RECOMMENDED ON THE APPROVED GEOTECHNICAL REPORT. 10.IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES.
- 11.UNLESS OTHERWISE RECOMMENDED IN AN APPROVED GEOTECHNICAL REPORT, OVER-EXCAVATION SHALL BE AT LEAST 60" (5') MINIMUM BELOW THE BOTTOM OF FOOTINGS OR TO COMPETENT NATIVE SOIL OR BEDROCK MATERIALS, WHICHEVER IS DEEPER, AS APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER OR GEOLOGIST.
- 12. EARTHWORK VOLUMES: CUT___1,311_(CY), FILL_129_ (CY), TOTAL_DISTURBED_AREA _50,966_ (SF)
- 13. EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND SAN BERNARDINO COUNTY IS NOT RESPONSIBLE FOR
- 14. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- 15. ANY ONSITE RETAINING WALLS SHOWN ON THE GRADING PLANS THAT ARE OVER 4' IN HEIGHT, MEASURED FROM TOP OF WALL TO BOTTOM OF FOOTING, ARE FOR REFERENCE ONLY. RETAINING WALLS OVER 4' IN HEIGHT ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL RETAINING WALLS OVER 4' IN HEIGHT.
- 16. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
- 17. FOR SITES WITH PROTECTED SPECIES OR TREES, THE PROPOSED GRADING MAY BE SUBJECT TO A SEPARATE PERMIT.
- 18. ADEQUATE FIRE ACCESS AROUND BUILDINGS (INCLUDING GARAGES) SHOULD BE PROVIDED AS APPROVED BY COUNTY FIRE.
- 19. EXISTING DRAINAGE COURSES SHALL NOT BE OBSTRUCTED, ALTERED, OR DIVERTED WITHOUT PRIOR APPROVAL FROM THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION. A STREAMBED ALTERATION AGREEMENT MAY ALSO BE REQUIRED FROM THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
- 20.DRAINAGE EASEMENTS SHALL NOT BE OBSTRUCTED, ALTERED OR DIVERTED WITHOUT PRIOR APPROVAL OF THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION.
- 21.SETBACKS AND BUILDING LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
- 22.UTILITY AND SEPTIC IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A
- 23.A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CASOOOOO2) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR
- 24.IN CONJUNCTION WITH THE CALIFORNIA GENERAL PERMIT FOR PROPOSED DISTURBANCE OVER ONE ACRE, AN ACTIVE WASTEWATER _ MUST BE INCLUDED ON THE FINAL GRADING PLAN
- 25. A FINAL GRADING CERTIFICATION WILL BE COLLECTED BY THE BUILDING INSPECTOR AT THE FINAL BUILDING INSPECTION OR PRIOR A GRADING FINAL STATUS ON THE PERMIT. THE FINAL GRADING CERTIFICATION IS TO BE COMPLETED BY THE ENGINEER OF RECORD ON THE
- 26. THE SOILS ENGINEER SHALL PROVIDE A FINAL SOIL GRADING REPORT INCLUDING LOCATIONS AND ELEVATIONS OF FIELD DENSITY TESTS, SUMMARIES OF FIELD AND LABORATORY TESTS AND OTHER SUBSTANTIATING DATA AND COMMENTS ON ANY CHANGES MADE DURING GRADING AND THEIR EFFECT ON THE RECOMMENDATIONS MADE IN THE SOIL ENGINEERING INVESTIGATION REPORT. IT SHALL ALSO PROVIDE INFORMATION AS TO LOCATION AND NATURE OF TESTS, STATEMENTS RELATIVE TO THE EXPANSIVE NATURE OF SOIL AND/OR ROCK MATERIAL, LIMITS OF COMPACTED FILL SHOWN ON THE AS-GRADED PLAN AND CERTIFICATION AS TO THE ADEQUACY AND STABILITY OF
- 27.IF APPLICABLE, THE ENGINEERING GEOLOGIST SHALL PROVIDE A GEOLOGIC GRADING REPORT INCLUDING A FINAL DESCRIPTION OF THE GEOLOGY OF THE SITE INCLUDING ANY NEW INFORMATION DISCLOSED DURING THE GRADING AND THE EFFECT OF SAME ON RECOMMENDATIONS INCORPORATED IN THE APPROVED GRADING PLAN. THE ENGINEERING GEOLOGIST SHALL PROVIDE CERTIFICATION AS TO THE ADEQUACY OF THE SITE FOR THE INTENDED USE AS AFFECTED BY GEOLOGIC FACTORS. WHERE NECESSARY, A REVISED GEOLOGIC MAP AND CROSS-SECTIONS, AND ANY RECOMMENDATIONS REGARDING SPECIAL BUILDING RESTRICTIONS OR FOUNDATION SETBACKS SHALL
- 28. SHOULD THE EXCAVATION DISCLOSE SOIL AND/OR ROCK CONDITIONS WHERE CUT SLOPES ARE UNSTABLE, THE ENGINEERING GEOLOGIST AND/OR THE SOILS ENGINEER SHALL RECOMMEND NECESSARY TREATMENT TO THE BUILDING OFFICIAL FOR APPROVAL.
- 29. GEOLOGICAL AND SOILS ENGINEERING REPORTS BY INLAND FOUNDATION ENGINEERING, INC, DATED 09/06/2024 AND ALL SOILS REPORT ADDENDUM(DA) SHALL BE INCORPORATED HEREWITH AND MADE PART OF THIS GRADING PLAN.
- 30.THE CONTRACTOR SHALL IMPLEMENT PREVENTIVE MEASURES TO ASSURE THAT NO ROCKS, SOIL, DUST, OR DEBRIS OF ANY FORM SHALL FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES OR PUBLIC WAYS. ALL VEHICLE LOADS SHALL BE TRIMMED AND WATERED OR OTHERWISE SECURED TO PREVENT SPILLAGE FROM THE EQUIPMENT.
- 31.ALL EXPORT AND IMPORT OF MATERIAL OVER DEDICATED AND IMPROVED STREETS SHALL BE UNDERTAKEN OR CONDUCTED BY EQUIPMENT THAT COMPLIES IN ALL RESPECTS TO THE STATE VEHICLE CODE. REPAIR TO ANY DAMAGED DEDICATED OR IMPROVED STREETS SHALL BE MADE TO THE SATISFACTION OF THE BUILDING OFFICIAL AND IS THE RESPONSIBILITY OF THE OWNER, PERMITTEE, AND THE GRADING CONTRACTOR.
- 32.ALL FLOOD ZONE REQUIREMENTS MUST BE REFLECTED OR ACCOUNTED FOR ON THE GRADING PLANS. ELEVATIONS OR CONSTRUCTION NOTES MUST BE INCLUDED IN THE PLANS TO ENSURE COMPLIANCE WITH ALL APPLICABLE FIRST FLOOR ELEVATION REQUIREMENTS PER FEMA AND SAN BERNARDINO COUNTY DEVELOPMENT CODE GUIDELINES.
- 33. ALL GRADING SHALL COMPLY WITH SBC DEVELOPMENT CODE SECTION 82.14.050.C: IF FILL IS PLACED TO ELEVATE PADS ABOVE BASE ELEVATION, IT MUST BE DEMONSTRATED THAT FILL WILL NOT SETTLE AND IS PROTECTED FROM EROSION, SCOUR, OR DIFFERENTIAL SETTLEMENT, AS FOLLOWS.
- 33.1. THE PAD ELEVATION SHALL BE CERTIFIED TO MEET OR EXCEED THE ELEVATION REQUIRED BY THE APPLICABLE FLOODPLAIN SAFETY REVIEW AREA, AND IT MUST BE DEMONSTRATED THAT THE CUMULATIVE EFFECT OF THE PROPOSED DEVELOPMENT WHEN COMBINED WITH ALL OTHER EXISTING AND ANTICIPATED DEVELOPMENT WILL NOT INCREASE THE WATER SURFACE ELEVATION OF THE BASE FLOOD AT ANY POINT WITHIN
- 33.2. FILL SHALL BE COMPACTED TO 95 PERCENT PER ASTM (AMERICAN SOCIETY OF TESTING MATERIALS) STANDARD D-698. 33.3. FILL SLOPES SHALL BE NO STEEPER THAN TWO FEET HORIZONTAL TO ONE FOOT VERTICAL RATIO UNLESS SUBSTANTIATING DATA FOR
- STEEPER SLOPES IS PROVIDED, AND THE SLOPES ARE APPROVED BY THE COUNTY. 33.4. FILL SLOPES ADJACENT TO A WATER COURSE MAY BE REQUIRED TO BE ARMORED WITH STONE, ROCK OR APPROVED EQUAL PROTECTION.
- 34.FOR NONRESIDENTIAL PROJECTS, PROVIDE FOLLOWING NOTE ON PLANS:
- CALIFORNIA GREEN BUILDING STANDARDS CODE 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.
- 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED. EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.
- 35. CONTRACTOR SHALL ACQUIRE ENCROACHMENT PERMITS, CONSTRUCTION PERMITS OR ACCEPTANCE CORRESPONDENCE IN KIND PRIOR TO EXCAVATION ON THE STREET FOR UTILITIES.
- 36. CONTRACTOR SHALL FOLLOW MONUMENT PRESERVATION PER BUSINESS AND PROFESSIONS CODE § 8776

CIVIL ENGINEER'S STATEMENT:

"I CERTIFY THAT I WILL BE RESPONSIBLE FOR THIS GRADING IN ACCORDANCE WITH SECTION 7014(C) OF THE BUILDING CODE TO INCLUDE INCORPORATING ALL RECOMMENDATIONS OF THE SOILS ENGINEER, REPORT AND BE RESPONSIBLE FOR PROFESSIONAL INSPECTION AND APPROVAL OF THE GRADING. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INSPECTION AND APPROVAL AS TO THE ESTABLISHMENT OF LINE GRADE AND DRAINAGE OF DEVELOPMENT AREA. I WILL ALSO BE RESPONSIBLE FOR THE PREPARATION OF REVISED PLANS AND THE SUBMISSION OF 'AS GRADED' GRADING PLANS UPON THE COMPLETION OF THE WORK.

LEIDY STEPHANIA HERNANDEZ, P.E. SUPERVISING CIVIL ENGINEER R.C.E. NUMBER

SOILS ENGINEER'S STATEMENT

"I SHALL PROVIDE PROFESSIONAL INSPECTION AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS, TESTING FOR REQUIRED COMPACTION STABILITY OF ALL FINISHED SLOPES AND INCORPORATING THE DATE SUPPLIED BY THE ENGINEERING GEOLOGIST AND THE PREPARATION OF THE SOILS GRADING REPORT."



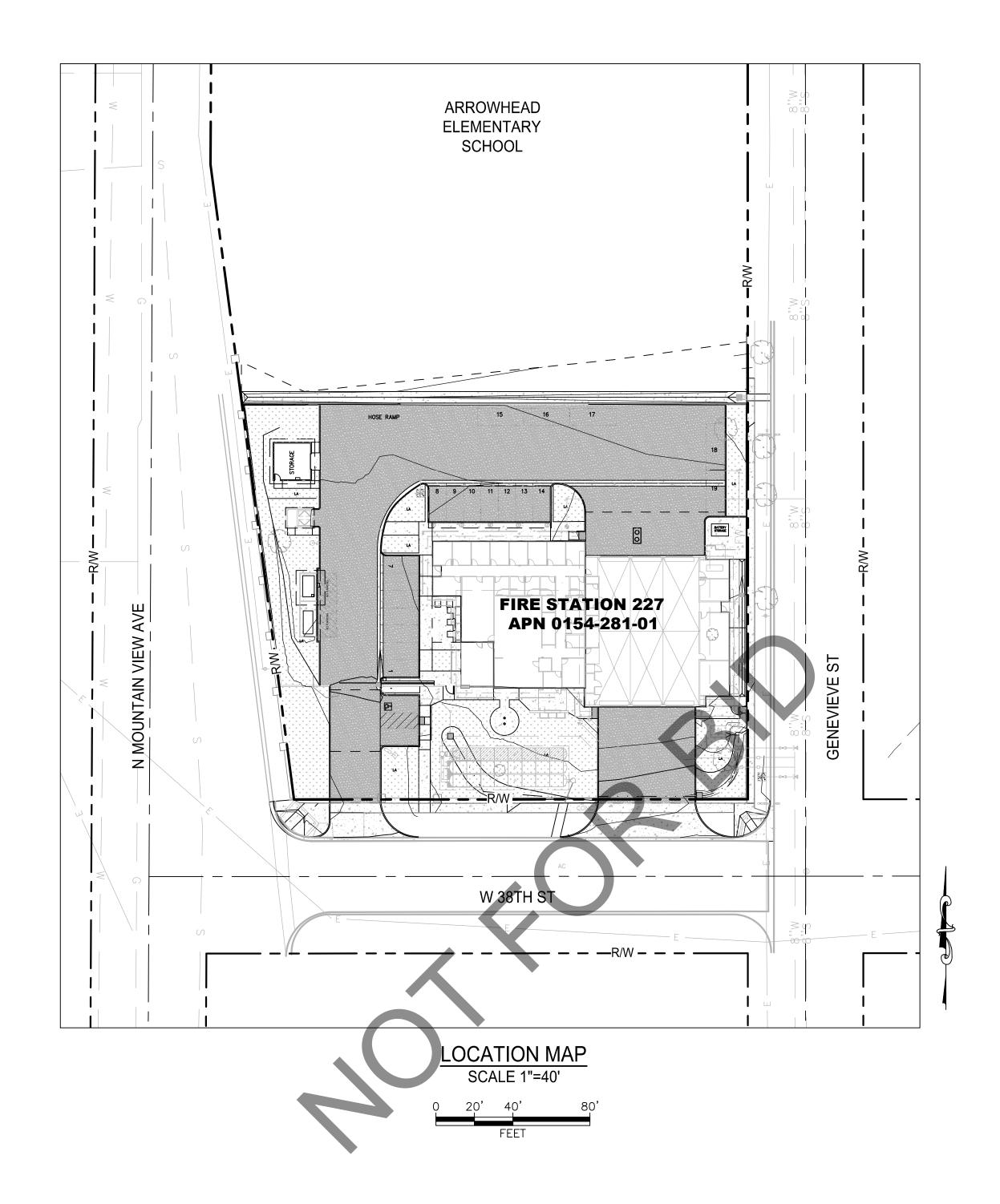
NO GRADING IN EXCESS OF 5000 CU. YDS. SHALL BE STARTED WITHOUT FIRST NOTIFYING THE ENGINEER. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, SUPERVISING CIVIL ENGINEER, SOILS ENGINEER AND/OR GEOLOGIST, CITY CONSTRUCTION INSPECTORS OR THEIR REPRESENTATIVES.

THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE CITY OF SAN BERNARDINO WHEN THE GRADING OPERATION (EXCEEDING 5000 CU. YDS.) IS READY FOR REQUIRED INSPECTIONS AS SHOWN IN THE TESTING AND INSPECTION REQUIREMENTS OF DIVISION V.

WATER, SEWER AND PLUMBING ELEMENTS PER SEPARATE PERMIT.

SAN BERNARDINO COUNTY

FIRE STATION NO.227



LEGEND:

PROPOSED RIGHT OF WAY

PROPOSED IMPROVEMENTS
PROPOSED DRAINAGE FLOW LINE
EXISTING IMPROVEMENTS
EXISTING OVERHEAD LINE
EXISTING GAS LINE
EXISTING SEWER LINE
EXISTING STORM DRAIN LINE
EXISTING TELECOMM.
EXISTING WATER LINE
€/CENTER LINE
PROPOSED ELEVATION CONTOUR
EXISTING ELEVATION CONTOUR
SIDE SLOPE

CONSTRUCT PCC SIDEWALK

CONSTRUCT PCC IMPROVEMENTS



DESCRIPTION TITLE SHEET DETAILS SHEET DETAILS SHEET GRADING PLAN ON-SITE UTILITIES EROSION CONTROL

FIRE HYDRANT — · · · — · · — · · — TELEPHONE MANHOLE ELECTRICAL MANHOLE WATER METER ELECTRICAL PULLBOX BENCH MARK SPOT ELEVATION

-\$\dots

EARTHWORK QUANTITIES $\frac{\text{FILL}=}{\text{TOTAL EXPORT}} = \frac{129 \text{ C.Y.}}{1182 \text{ C.Y.}}$

----R/W----

*EARTHWORK NOTE: EARTHWORK VOLUMES SHOWN HERE ARE FOR FEE PURPOSES ONLY NOT FOR BIDDING. CONTRACTOR SHALL PERFORM INDEPENDENT EARTHWORK CALCULATIONS AND BID A COMPLETE JOB. THE SOURCE OF FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD AND THE BUILDING DEPARTMENT BEFORE IMPORT OF THE MATERIAL.

AC	ASPHALT CONCRETE
Q	CENTER LINE
C&G	CURB AND GUTTER
FF	FINISHED FLOOR
FL	FLOW LINE
FS	FINISHED SURFACE
GB	GRADE BREAK
NTS	NOT TO SCALE
PL	PROPERTY LINE
RL	RIDGE LINE
R/W	RIGHT OF WAY
SWR	SEWER
TC	TOP OF CURB
TD	TOP OF DITCH
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
TYP	TYDICAL

UTILITIES CONTACT

SOUTHERN CALIFORNIA EDISON 1-800-990-7788 SOUTHERN CALIFORNIA GAS 1-800-427-2000 FRONTIER

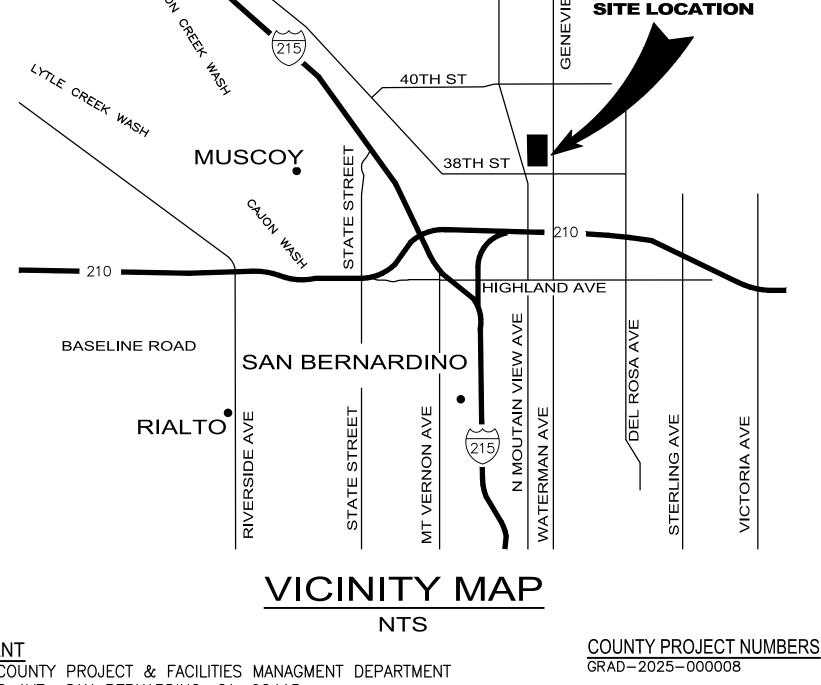
(877) 599-1870 SPECTRUM

SAN BERNARDINO MUNICIPAL WATER DISTRICT 1350 SOUTH E STREET SAN BERNARDINO, CA 92408 (909) 384-5141

ABBREVIATIONS

Q.	CENTER LINE
C&G	CURB AND GUTTER
FF	FINISHED FLOOR
FL	FLOW LINE
FS	FINISHED SURFACE
GB	GRADE BREAK
NTS	NOT TO SCALE
PL	PROPERTY LINE
RL	RIDGE LINE
R/W	RIGHT OF WAY
SWR	SEWER
TC	TOP OF CURB
TD	TOP OF DITCH
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
TYP.	TYPICAL

(833) 267-6094



48TH ST

OWNER/APPLICANT

SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGMENT DEPARTMENT 385 N. ARROWHEAD AVE., SAN BERNARDINO, CA, 92415 (909) 387-5000

TOPOGRAPHY SOURCE

ERSC.INC, DATED 07/26/2024 1810 W. REDLANDS AVE., REDLANDS, CALIFORNIA 92373 (909) 890-1255

ROBERT OLLERTON SUPERVISING LAND SURVEYOR R.C.E. NUMBER

180 W. 38TH STREET, SAN BERNARDINO CA 92405

VERTICAL CONTROL FOR THIS SURVEY IS A NGS: BENCHMARK A-6-11

DESCRIPTION: "A-6-11" DESCRIBED BY METRO WATER DISTR SO. CALIFORNIA 1993 SAN BERNARDINO, AT THE NORTHWEST CORNER OF 48TH ST. AND H STREET (AKA 42ND ST AND E ST.), 42 FEET (12.8 M) NORTH OF 48TH ST AND 46 FEET (14.0 M) WEST OF H ST., IN TOP OF A CONCRETE POST 0.4 FOOT (12.2CM) BELOW CONCRETE SIDEWALK AND 10 FEET NORTHWEST OF CURB FACE.

ELEVATION:1364.63' (NAVD88)

GEOTECHNICAL ENGINEER'S

GEOLOGIC HAZARDS EVALUATION/GEOTECHNICAL INVESTIGATION, DATED 09/06/2024 INLAND FOUNDATION ENGINEERING, INC. 1310 S. SANTA FE AVENUE, SAN JACINTO, CALIFORNIA 92581 (951) 654–1555

FEMA FLOOD ZONE INFORMATION

THIS PROJECT IS LOCATED IN FLOOD ZONE X, AREAS OF 0.2% ANNUAL CHANGE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1%ANNUAL CHANCE FLOOD PER FEMA FLOOD INSURANCE RATE MAP NUMBER 06071C7945H EFFECTIVE AUGUST 28, 2008.

LEGAL DESCRIPTION

PTN W 1/2 NE 1/4 SEC 22 TP 1N R 4W COM ON E LI MT VIEW AVE S 00 DEG 17 1/2 MIN W 480 FT FROM SW COR LOT 15 TR 1948 TH S 00 DEG 17 1/2 MIN W 794.51 FT TH S 89 DEG 34 1/2 MIN E 274.13 FT TH N 00 DEG 17 1/2 MIN E 794.51 FT TH N 89 DEG 34 1/2 MIN W 274.13 FT TO BEG EX STREET

EROSION CONTROL NOTES:

- 1. IN CASE OF EMERGENCY, CALL <u>ERNESTO GONZALEZ</u> AT <u>909</u>
- 2. POLLUTION AND EROSION PREVENTION MEASURES, ALSO KNOWN AS BEST MANAGEMENT PRACTICES (BMPS), MUST BE INSTALLED PRIOR TO GRADING. THESE MEASURES, INCLUDING THE PREVENTION OF SEDIMENTATION OR FLOOD DAMAGE, TO OFFSITE PROPERTY SHALL BE ADEQUATE WHETHER OR NOT AN EROSION CONTROL PERMIT IS REQUIRED.
- 3. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES. OR WIND.
- 4. EROSION CONTROL DEVICES SHALL BE FUNCTIONING AT ALL TIMES. IN CASE OF FAILURE, RAPID CONSTRUCTION OF EMERGENCY DEVICES SHALL BE IMPLEMENTED. 5. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED
- MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. 6. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT
- BE WASHED INTO THE DRAINAGE SYSTEM. 7. EXCESS OR WASTE CONCRETE MUST BE CONTAINED ONSITE. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ONSITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- 8. DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO ENSURE ALL EROSION CONTROL DEVICES AND BMPS ARE INSTALLED AND FUNCTIONING PROPERLY PER PLAN. PROPER PRECAUTION OF PREDICTED PRECIPITATION, AND AFTER ACTUAL

BUILDING OFFICIAL.

SHALL BE CONSIDERED WHEN 50% OR GREATER PROBABILITY PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE

- 9. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- 10. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- 11. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- 12. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- 13. ALL STORM WATER CAPTURE DEVICES SHALL BE PROTECTED AT ALL TIMES. 14. EROSION AND SEDIMENT CONTROL PRACTICES SHOULD BE IN
- CONFORMANCE WITH STANDARD PRACTICE. THE MOST COMMON EROSION CONTROL MEASURES ARE:
- 14.1. SCHEDULING 14.2. PRESERVATION OF EXISTING VEGETATION
- 14.3. STOCKPILE MANAGEMENT 14.4. SILT FENCE
- 14.5. FIBER ROLLS
- 14.6. SANDBAG BARRIER
- 14.7. STRAW BALE BARRIER 14.8. STORM DRAIN INLET PROTECTION
- 14.9. CONCRETE WASTE MANAGEMENT 14.10. VEHICLE AND EQUIPMENT FUELING
- 14.11. VEHICLE AND EQUIPMENT MAINTENANCE
- 14.12.STABILIZED CONSTRUCTION ENTRANCE/EXIT 14.13.ENTRANCE/EXIT TIRE WASH
- 14.14. WIND EROSION CONTROL 15. DUST SHALL BE CONTROLLED BY WATERING.



CONSULTANT:

1861 W. Redlands Blvd, Bldg 7B

Redlands, Ca. 92373 P: (909) 890-1255

F: (909) 890-0995

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES

MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.

SAN BERNARDINO, CA 92415

PROJECT NAME:

ASSOCIATED RECORDS

NEWNR-2025-00002

DRNSTY-2025-00006

WQMP-2025-00005

SAN BERNARDINO **COUNTY FIRE DEPARTMENT: FIRE STATION 227**

PROJECT # 10.10.1202

CIP #22-105 APN: 0154-281-01

180 W. 38TH STREET

SAN BERNADINO,

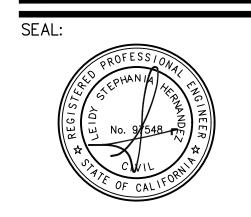
CA 92405

ISSUE INFORMATION:			
DATE:	INFORMATION:		
03-14-25	Plan Check 1		
05-13-25	Plan Check ⁄2		
06-20-25	Plan Check ⁄3		
08-22-25	BID SET		

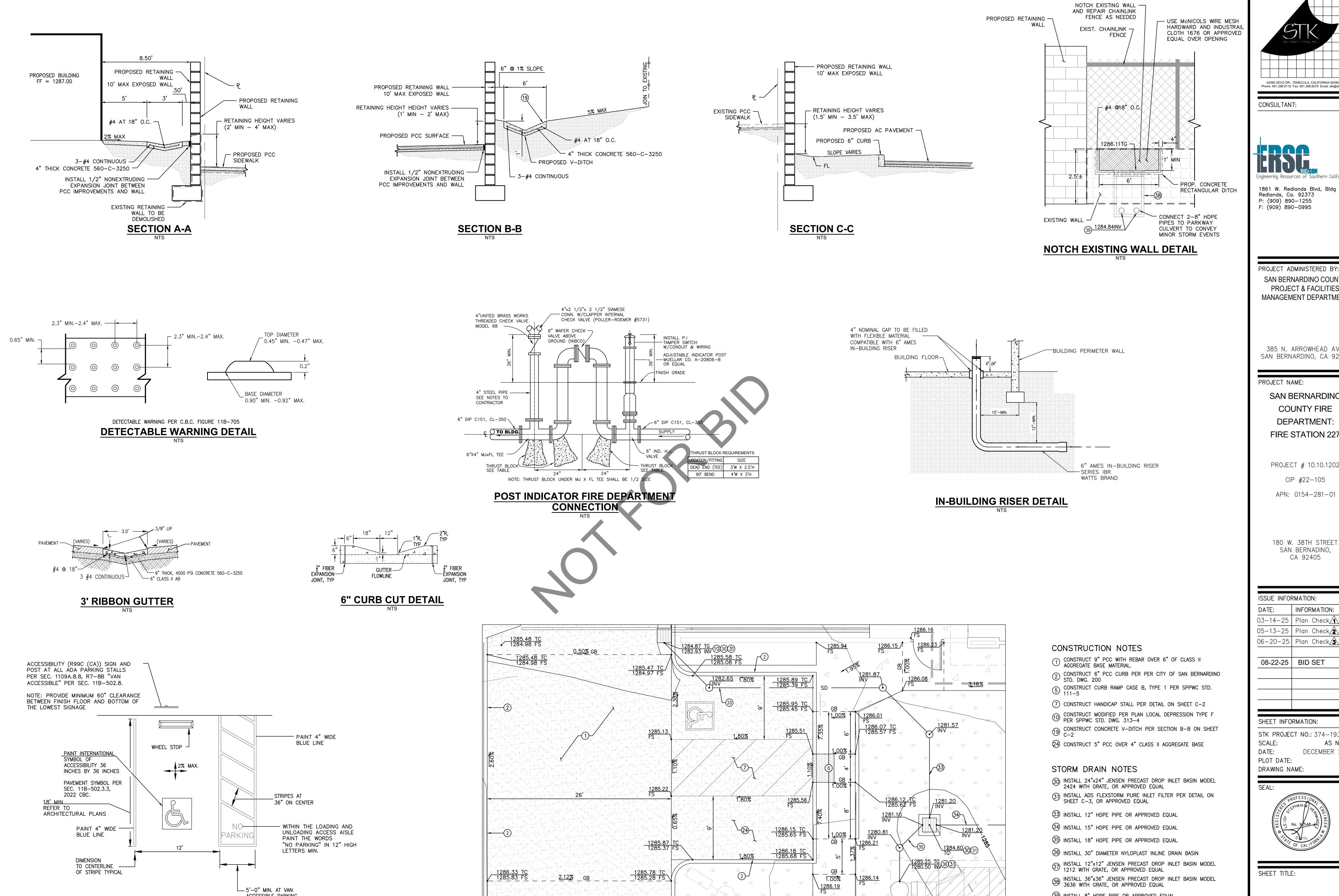
SHEET INFORMATION:

DRAWING NAME:

STK PROJECT NO.: 374-193-24 SCALE: AS NOTED DATE: DECEMBER 2024 PLOT DATE:



TITLE SHEET



ENLARGED DETAIL "A"

SCALE: 1"=5'

— 5'-0" MIN. AT VAN ACCESSIBLE PARKING

PER CBC 2022, CHAPTER IIB-502.3.3 AND SPPWC STD. 180-0

ADA PARKING STALL DETAIL

42095 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780 Phone: 951.296.9110 Fax: 951.296.6079 Email: stk@stkinc.com

CONSULTANT:

Engineering Resources of Southern California

1861 W. Redlands Blvd, Bldg 7B Redlands, Ca. 92373 P: (909) 890-1255 F: (909) 890-0995

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO

COUNTY FIRE DEPARTMENT: **FIRE STATION 227**

PROJECT # 10.10.1202 CIP #22-105

APN: 0154-281-01

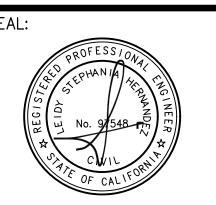
180 W. 38TH STREET SAN BERNADINO, CA 92405

ISSUE INFORMATION:			
DATE:	INFORMATION:		
03-14-25	Plan Check ⁄1		
05-13-25	Plan Check ⁄2		

08-22-25 | BID SET

SHEET INFORMATION: STK PROJECT NO.: 374-193-24

AS NOTED DECEMBER 2024 PLOT DATE: DRAWING NAME:



SHEET TITLE:

39 INSTALL 8" HDPE PIPE OR APPROVED EQUAL

DETAILS SHEET

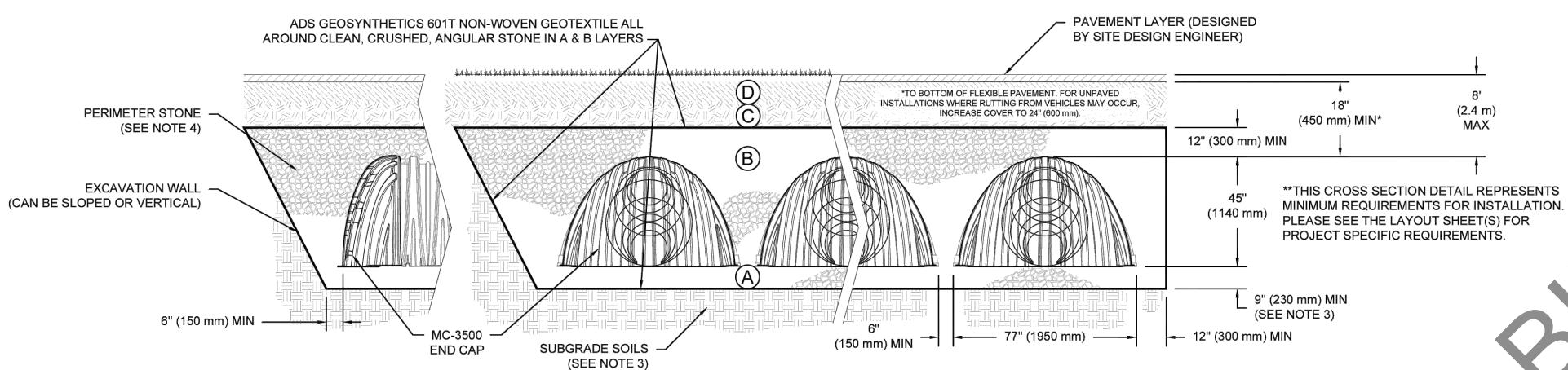
SHT 2 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

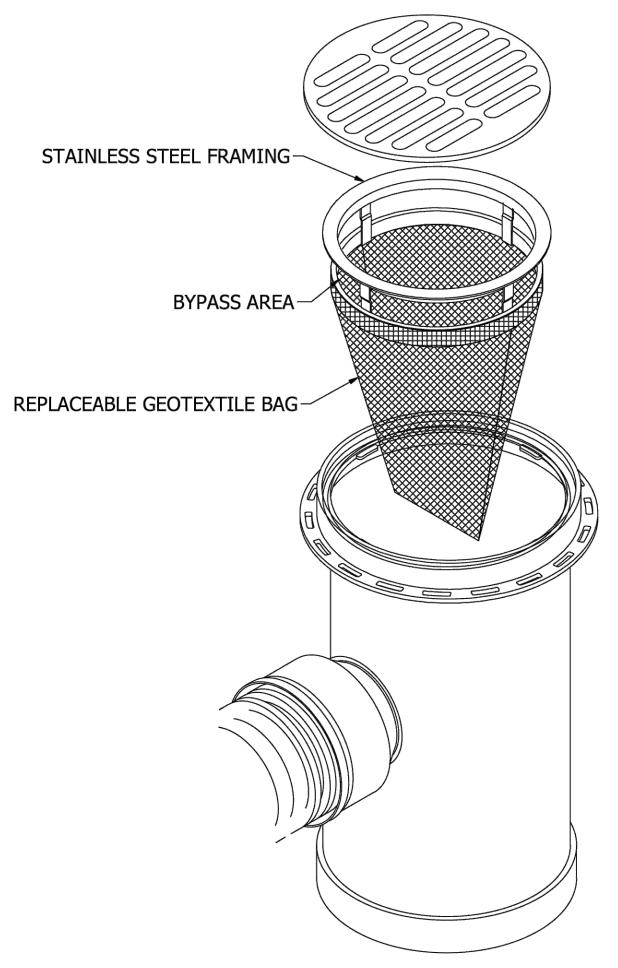
- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR
- 5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION
- FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE. 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELL COLORS.

3 OF



NOTES:

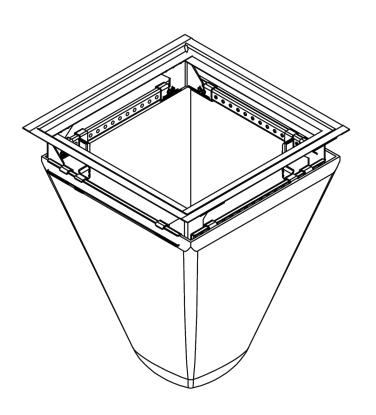
(7)

- 1. ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL.
- 2. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. ADS DESIGN FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE
- 3. ALL FILTERS MEET ASTM D8057 SPECIFICATIONS.

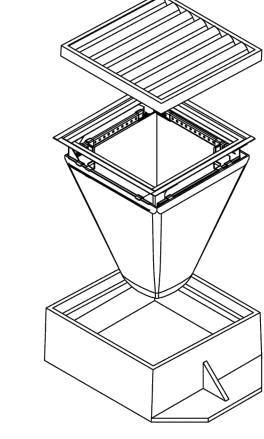
ADS FLEXSTORM PURE INLET DETAIL FOR NYLOPLAST INLET

UNDERGROUND INFILTRATION CHAMBER SYSTEM

SEE WQMP FOR FURTHER DETAILS



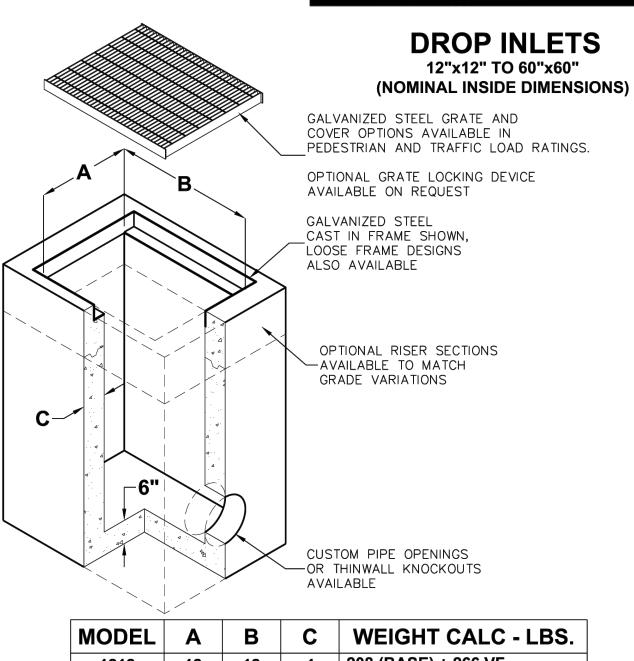
SQUARE/RECTANGULAR INLET FILTER		
Class Opening Size	Style P/N	Minimum Bypass
Clear Opening Size		Flow Rate (CFS)
Small: Up to 64" Perimeter	62SHD	2.4
Medium: 65" - 96" Perimeter	62MHD	3.5
Large: 97" - 120" Perimeter	62LHD	5.0
Extra-Large: 121" or Greater Perimeter	62XLHD	7.2





- 1. ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL.
- 2. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. ADS DESIGN FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE
- 3. ALL FILTERS MEET ASTM D8057 SPECIFICATIONS.

ADS FLEXSTORM PURE INLET DETAIL FOR PRECAST CATCH BASIN



MODEL	Α	В	С	WEIGHT CALC - LBS.
1212	12	12	4	208 (BASE) + 266 VF
1616	16	16	5	408 (BASE) + 480 VF
1818	18	18	5	602 (BASE) + 604 VF
2424	24	24	6	675 (BASE) + 750 VF
2436	24	36	6	900 (BASE) + 900 VF
2448	24	48	6	1500 (BASE) + 1050 VF
3030	30	30	6	920 (BASE) + 900 VF
3636	36	36	6	1200 (BASE) + 1050 VF
3648	36	48	6	1500 (BASE) + 1200 VF
4848	48	48	6	1875 (BASE) + 1350 VF
6060	60	60	6	2700 (BASE) + 1650 VF

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST. Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever

12/20/2010 DI_CONSOL_B.DWG © 2010

necessary for confirmation or advice on product design.



CONSULTANT:

1861 W. Redlands Blvd, Bldg 7B Redlands, Ca. 92373 P: (909) 890-1255 F: (909) 890-0995

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO **COUNTY FIRE** DEPARTMENT: **FIRE STATION 227**

PROJECT # 10.10.1202

CIP #22-105

APN: 0154-281-01

180 W. 38TH STREET SAN BERNADINO,

CA 92405

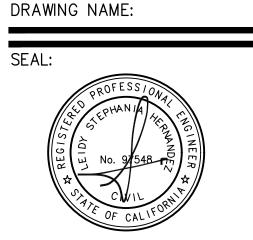
ISSUE INFORMATION: INFORMATION: 03-14-25 | Plan Check/**1**\ 05-13-25 | Plan Check/**2**

06-20-25 | Plan Check/**3**

08-22-25 | BID SET

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24 SCALE: AS NOTED DATE: DECEMBER 2024 PLOT DATE:



DETAILS SHEET

