

CA GREEN BUILDING CODE REQUIREMENTS

1. 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 5.0.6.1
2. BICYCLE PARKING: Shall comply with the requirements of CGBC 5.0.6.4.1 and 5.0.6.4.2. Provide for short term and long term bicycle parking.
3. DESIGNATED PARKING for CLEAN AIR VEHICLES: Provide designated parking for low-emitting, fuel-efficient and carpool/van pool vehicles per CGBC Table 5.0.6.5.2, and mark CLEAN AIR VEHICLE. CGBC 5.0.6.5.2
- 3.2 ELECTRIC VEHICLE CHARGING: Provide charging space requirements, amount of spaces and identification per CGBC 5.0.6.5.3.1-4
4. LIGHT POLLUTION REDUCTION: Design interior and exterior lighting such that zero direct-beam illumination leaves the building site. CGBC 5.0.6.8
5. GRADING AND PAVING: The site shall be planned and developed to keep surface water from entering building. CGBC 5.0.6.0
6. 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 5.20.1
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 (MWEL0) 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 Resources (DWR) per Government Code Section 65950(a).The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWEL0) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations.CGBC 5.304.2
11. 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 MWEL0 or conform to the prescriptive compliance measures contained in MWEL0's Appendix D. CGBC 5.304.4
12. 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
16. 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 5.410.1
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
21. 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 1 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(a)(2), and (a)(2) of California Code of Regulations, Title 17 commencing with Section 94520. CGBC 5.504.4.3.1
26. CARPET SYSTEMS: Carpets shall meet one of the following: 1. Carpet and Rug Institute's Green Label Plus Program, 2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350), 3. NSF/ANSI 140 at the Gold Level, 4. Scientific Certifications Systems Indoor Advantage™ Gold. CGBC 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 5.504.4.1
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. CGBC 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 windows and in buildings. Meet additional and more stringent requirements in applicable ordinances, regulations, and policies. CGBC 5.504.7
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 5.505.1.3.1 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
35. 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 CGBC 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 5.508.1.1 and 5.508.1.2
38. 5.508.1.1 CHLOROFLUOROCARBONS (CFCs). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCs.
39. 5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

A5.602
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 and alterations)
O = Other (provide explanation)
[N] = New construction pursuant to Section 301.3
[A] = Additions and/or Alterations pursuant to Section 301.3

Chapter 5 Divisions

DIVISION 5.1 Planning and Design						
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Deconstruction and reuse of existing structures. Scope with Exemption	5.105.1				
Mandatory	Reuse of existing buildings and verification of compliance with note	5.105.2 and 5.105.2.1				
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 through 5.106.4.1.5				T1.2
Mandatory	Long-term bicycle parking	5.106.4.1.6 through 5.106.4.1.10				
Mandatory	Electric vehicle (EV) charging (EV) with Section 5.106.5.3.1, 5.106.5.3.2, and associated Table 5.106.5.3.1	5.106.5.3.1 through 5.106.5.3.3, 5.106.5.3.4 and 5.106.5.3.5				T1.2
	OR					

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Metering faucets for wash fountains	5.303.3.4.5				
Mandatory	Pre-rinse spray valve	5.303.3.4.6				
Mandatory	Food waste disposers	5.303.4.1				
Mandatory	Areas of additions or alterations	5.303.5				
Mandatory	Standards for plumbing fixtures and fittings	5.303.6				T1.2
Mandatory	Outdoor potable water use in landscape areas (with notes)	5.304.1				T1.2

DIVISION 5.4 Material Conservation and Resource Efficiency						
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Weather protection	5.407.1				T1.2
Mandatory	Moisture control: exterior door protection	5.407.2.1				T1.2
Mandatory	Moisture control: exterior door protection	5.407.2.2				T1.2
Mandatory	Construction waste management—comply with either: Sections 5.408.1.1, 5.408.1.2, 5.408.1.3, 5.408.1.4, 5.408.1.5, 5.408.1.6, 5.408.1.7, 5.408.1.8, 5.408.1.9, 5.408.1.10, 5.408.1.11, 5.408.1.12, 5.408.1.13, 5.408.1.14, 5.408.1.15, 5.408.1.16, 5.408.1.17, 5.408.1.18, 5.408.1.19, 5.408.1.20, 5.408.1.21, 5.408.1.22, 5.408.1.23, 5.408.1.24, 5.408.1.25, 5.408.1.26, 5.408.1.27, 5.408.1.28, 5.408.1.29, 5.408.1.30, 5.408.1.31, 5.408.1.32, 5.408.1.33, 5.408.1.34, 5.408.1.35, 5.408.1.36, 5.408.1.37, 5.408.1.38, 5.408.1.39, 5.408.1.40, 5.408.1.41, 5.408.1.42, 5.408.1.43, 5.408.1.44, 5.408.1.45, 5.408.1.46, 5.408.1.47, 5.408.1.48, 5.408.1.49, 5.408.1.50, 5.408.1.51, 5.408.1.52, 5.408.1.53, 5.408.1.54, 5.408.1.55, 5.408.1.56, 5.408.1.57, 5.408.1.58, 5.408.1.59, 5.408.1.60, 5.408.1.61, 5.408.1.62, 5.408.1.63, 5.408.1.64, 5.408.1.65, 5.408.1.66, 5.408.1.67, 5.408.1.68, 5.408.1.69, 5.408.1.70, 5.408.1.71, 5.408.1.72, 5.408.1.73, 5.408.1.74, 5.408.1.75, 5.408.1.76, 5.408.1.77, 5.408.1.78, 5.408.1.79, 5.408.1.80, 5.408.1.81, 5.408.1.82, 5.408.1.83, 5.408.1.84, 5.408.1.85, 5.408.1.86, 5.408.1.87, 5.408.1.88, 5.408.1.89, 5.408.1.90, 5.408.1.91, 5.408.1.92, 5.408.1.93, 5.408.1.94, 5.408.1.95, 5.408.1.96, 5.408.1.97, 5.408.1.98, 5.408.1.99, 5.408.1.100	5.408.1.1 through 5.408.1.100				T1.2
Mandatory	Construction waste management—documentation	5.408.1.4				T1.2
Mandatory	Universal waste (A)	5.408.2				
Mandatory	Excavated soil and land clearing debris (100% reuse or recycle) with Exemption and Notes	5.408.3				T1.2

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Aerosol paints and coatings: verification	5.504.4.3.2				T1.2
Mandatory	Carpet systems	5.504.4.4				T1.2
Mandatory	Carpet cushion	5.504.4.4.1				
Mandatory	Carpet adhesives per Table 5.504.4.1	5.504.4.4.2				T1.2
Mandatory	Composite wood products	5.504.4.5				
Mandatory	Composite wood products: documentation	5.504.4.5.3				T1.2
Mandatory	Resilient flooring systems	5.504.4.6				T1.2
Mandatory	Resilient flooring: verification of compliance	5.504.4.6.1				T1.2
Mandatory	Thermal insulation	5.504.4.7				T1.2
Mandatory	Verification of compliance	5.504.4.7.1				T1.2
Mandatory	Acoustical ceilings and wall panels	5.504.4.8				T1.2
Mandatory	Verification of compliance	5.504.4.8.1				T1.2
Mandatory	Filters (with exceptions)	5.504.5.3				T1.2
Mandatory	Filters: labeling	5.504.5.3.1				T1.2
Mandatory	Environmental tobacco smoke (ETS) control	5.504.7				T1.2
Mandatory	Indoor moisture control	5.505.1				T1.2
Mandatory	Outside air delivery	5.505.1				T1.2
Mandatory	Carbon dioxide (CO2) monitoring	5.505.2				T1.2
Mandatory	Acoustical control (with exception)	5.507.4				
Mandatory	Exterior noise transmission, prescriptive method (with exceptions)	5.507.4.1				
Mandatory	Noise exposure where noise contours are not readily available	5.507.4.1.1				T1.2

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
	Power Allocation Method, Section 5.106.5.3.6 and associated Table 5.106.5.3.6	OR 5.106.5.3.6, Table 5.106.5.3.6 5.106.5.3.6, Table 5.106.5.3.6 5.106.5.3.6, Table 5.106.5.3.6 5.106.5.3.6, Table 5.106.5.3.6				
Mandatory	Additions or Alterations to existing buildings or parking facilities (A) with Exemption	5.106.5.4				
Mandatory	Existing buildings or parking areas without previously installed EV capable infrastructure (A)	5.106.5.4.1				
Mandatory	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				
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				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

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Life Cycle Assessment, Scope, Whole building life cycle assessment with Notes, Building components, Reference study period, and verification of compliance	5.409.1, 5.409.2, 5.409.2.1, 5.409.2.2, and 5.409.2.3				
Mandatory	Life Cycle Assessment, Scope, Product GWP compliance – prescriptive path, 5.409.3.1 with Exemption and Exemption EQUATION, Verification of compliance and Product GWP Limit Table with Footnotes	5.409.1, 5.409.3, 5.409.3.1, 5.409.3.2 and Table 5.409.3				
Mandatory	Recycling by occupants (with exception)	5.410.1				T1.2
Mandatory	Recycling by occupants: additions (with exception)	5.410.1.1				
Mandatory	Recycling by occupants: sample ordinance	5.410.1.2				T1.2
Mandatory	Commissioning new buildings (≥ 10,000 sf) (N)	5.410.2				
Mandatory	Owner's or owner representative's Project Requirements (OPR) (N)	5.410.2.1				
Mandatory	Basis of Design (BOD)	5.410.2.2				
Mandatory	Commissioning plan (N)	5.410.2.3				
Mandatory	Functional performance testing (N)	5.410.2.4				
Mandatory	Documentation and training (N)	5.410.2.5				
Mandatory	Systems manual (N)	5.410.2.5.1				
Mandatory	Systems operation training (N)	5.410.2.5.2				

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Performance method	5.507.4.2				
Mandatory	Site features	5.507.4.2.1				
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				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 Declaration Statement

o Mandatory: I attest that this mandatory provisions checklist is accurate and complete.

Signature: _____ Date: _____

Company: _____ License: _____

Address: _____ Phone: _____

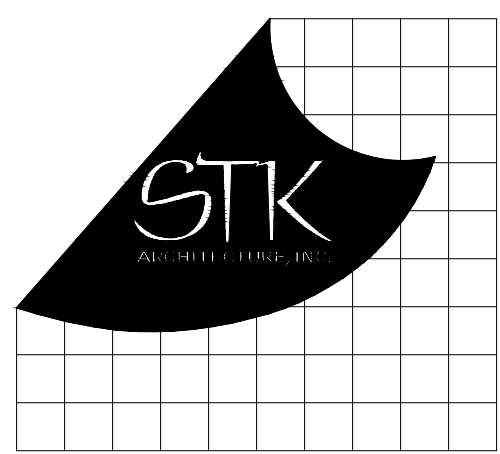
City/State/Zip: _____

DIVISION 5.2 Energy Efficiency						
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Meet the minimum energy efficiency standard	5.201.1				T1.2

DIVISION 5.3 Water Efficiency and Conservation						
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Separate meters (new buildings or additions ≥ 50,000 sf that 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	Walk-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				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				
Mandatory	Nonresidential lavatory faucets	5.303.3.4.1				
Mandatory	Kitchen faucets	5.303.3.4.2				
Mandatory	Wash fountains	5.303.3.4.3				
Mandatory	Metering faucets	5.303.3.4.4				

Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
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				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				MO.1
Mandatory	Procedures for HVAC balancing	5.410.4.3.1				MO.1
Mandatory	Reporting for testing and adjusting	5.410.4.4				
Mandatory	Operation and maintenance (O&M) manual	5.410.4.5				MO.1
Mandatory	Inspection and reports	5.410.4.5.1				MO.1

DIVISION 5.5 Environmental Quality						
Requirement	SECTION TITLE	CODE SECTION	Y	N	N/A	O
Mandatory	Fireplaces	5.503.1				
Mandatory	Woodstoves	5.503.1.1				
Mandatory	Temporary ventilation	5.504.1				
Mandatory	Covering of ducts openings and protection of mechanical equipment during construction	5.504.3				MO.1
Mandatory	Adhesives, sealants, and caulks	5.504.4.1				T1.2
Mandatory	Paints and coatings	5.504.4.3				T1.2
Mandatory	Aerosol paints and coatings	5.504.4.3.1				



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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:
FIRE STATION 227

SAN BERNARDINO COUNTY

FIRE STATION NO.227

GRADING NOTES:

- ALL GRADING SHALL CONFORM TO THE LATEST CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18, APPENDIX-J AND ALL APPLICABLE SECTIONS.
- A GRADING PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY WORK ON THE SITE.
- 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.
- 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 RIGHT-OF-WAY.
- 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.
- 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.
- 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.
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
- FILL SLOPES SHALL NOT HAVE LESS THAN 90% RELATIVE COMPACTION, OR AS RECOMMENDED ON THE APPROVED GEOTECHNICAL REPORT.
- 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.
- 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.
- EARTHWORK VOLUMES:
CUT 1,311 (CY), FILL 129 (CY), TOTAL DISTURBED AREA 50,966 (SF)
- EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND SAN BERNARDINO COUNTY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- 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.
- 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.
- 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).
- FOR SITES WITH PROTECTED SPECIES OR TREES, THE PROPOSED GRADING MAY BE SUBJECT TO A SEPARATE PERMIT.
- ADEQUATE FIRE ACCESS AROUND BUILDINGS (INCLUDING GARAGES) SHOULD BE PROVIDED AS APPROVED BY COUNTY FIRE.
- 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.
- DRAINAGE EASEMENTS SHALL NOT BE OBSTRUCTED, ALTERED OR DIVERTED WITHOUT PRIOR APPROVAL OF THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION.
- SETBACKS AND BUILDING LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
- UTILITY AND SEPTIC IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
- 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. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.
- IN CONJUNCTION WITH THE CALIFORNIA GENERAL PERMIT FOR PROPOSED DISTURBANCE OVER ONE ACRE, AN ACTIVE WASTEWATER DISCHARGE ID # (WQID) _____ MUST BE INCLUDED ON THE FINAL GRADING PLAN.
- 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 APPROVED GRADING PLANS.
- 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 THE SITE FOR THE INTENDED USE.
- 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 BE INCLUDED.
- 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.
- GEOLOGICAL AND SOILS ENGINEERING REPORTS BY INLAND FOUNDATION ENGINEERING, INC. DATED 09/06/2024 AND ALL SOILS REPORT ADDENDUM(S) SHALL BE INCORPORATED HEREWITH AND MADE PART OF THIS GRADING PLAN.
- 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.
- 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.
- 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.
- 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:
 - 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 THE COMMUNITY.
 - FILL SHALL BE COMPACTED TO 95 PERCENT PER ASTM (AMERICAN SOCIETY OF TESTING MATERIALS) STANDARD D-698.
 - 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.
 - FILL SLOPES ADJACENT TO A WATER COURSE MAY BE REQUIRED TO BE ARMORED WITH STONE, ROCK OR APPROVED EQUAL PROTECTION.
- 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.
- CONTRACTOR SHALL ACQUIRE ENCROACHMENT PERMITS, CONSTRUCTION PERMITS OR ACCEPTANCE CORRESPONDENCE IN KIND PRIOR TO EXCAVATION ON THE STREET FOR UTILITIES.
- 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. 97548 05/12/2025
SUPERVISING CIVIL ENGINEER R.C.E. NUMBER SIGNATURE DATE

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 FILL AREAS AND INCORPORATING THE DATE SUPPLIED BY THE ENGINEERING GEOLOGIST AND THE PREPARATION OF THE SOILS GRADING REPORT.

ALLEN D. EVANS, P.E., G.E. 2060 06/23/2025
GEOTECHNICAL ENGINEER GE NUMBER SIGNATURE DATE

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 FILLING 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.

LEGEND:

PROPOSED RIGHT OF WAY	--- R/W ---	POWER POLE	⚡
PROPOSED IMPROVEMENTS	_____	STREET LIGHT	☀
PROPOSED DRAINAGE FLOW LINE	--- --- ---	FIRE HYDRANT	⚡
EXISTING IMPROVEMENTS	_____	UTILITY VALVE	⚡
EXISTING OVERHEAD LINE	--- OHL ---	PALM TREE	🌴
EXISTING GAS LINE	--- G ---	TREE	🌳
EXISTING SEWER LINE	--- S ---	EXISTING SIGN	⚡
EXISTING STORM DRAIN LINE	--- SD ---	UTILITY PULL BOX	⚡
EXISTING TELECOMM.	--- FO ---	STORM DRAIN MANHOLE	⚡
EXISTING WATER LINE	--- W ---	TELEPHONE MANHOLE	⚡
Q/CENTER LINE	--- ---	ELECTRICAL MANHOLE	⚡
PROPOSED ELEVATION CONTOUR	--- 12XX.XX ---	SEWER MANHOLE	⚡
EXISTING ELEVATION CONTOUR	--- (12XX.XX) ---	WATER MANHOLE	⚡
SIDE SLOPE	--- ---	WATER METER	⚡

HATCH LEGEND:

CONSTRUCT PCC SIDEWALK

CONSTRUCT PCC IMPROVEMENTS

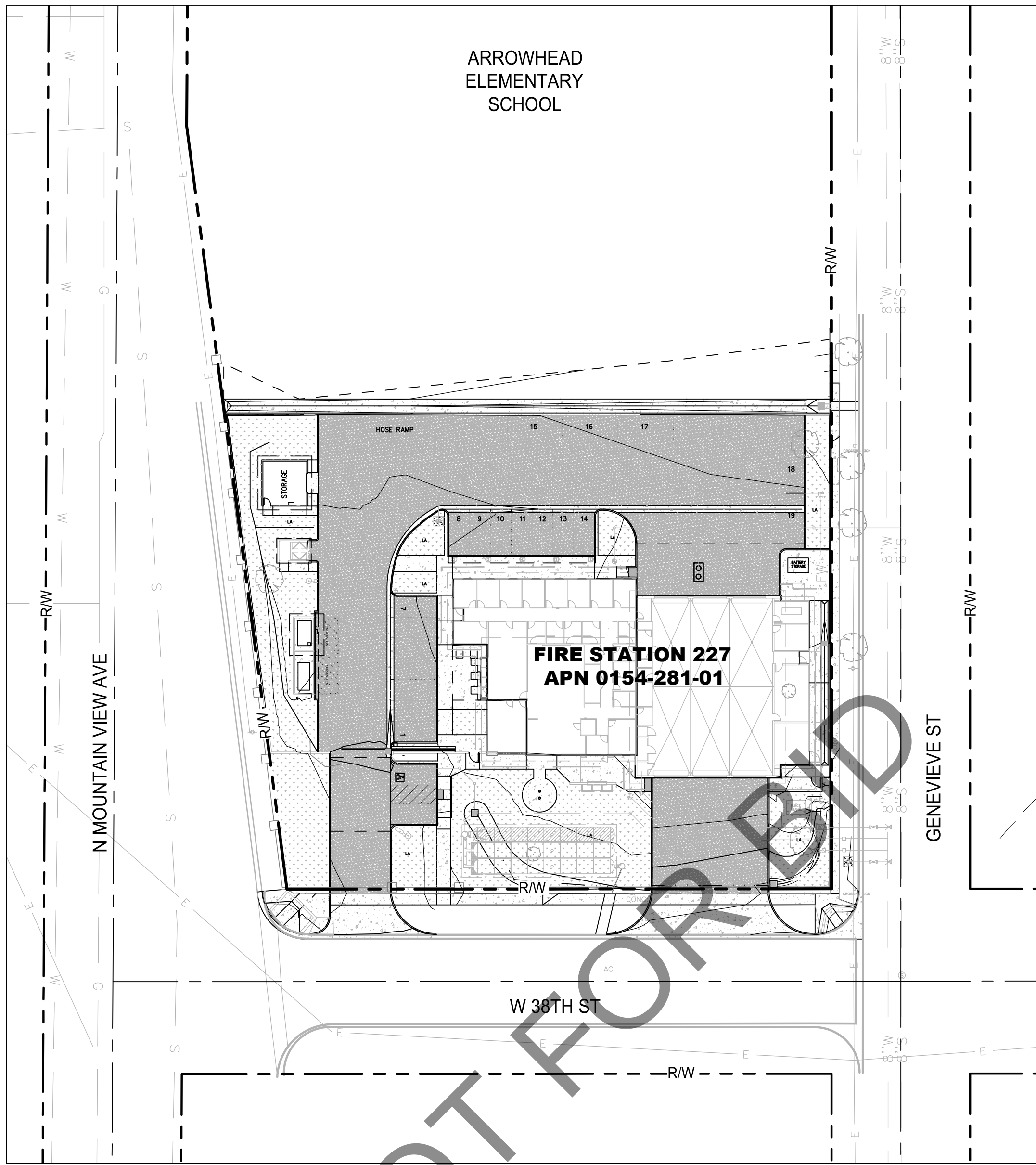
SHEET NO.

C-1	TITLE SHEET
C-2	DETAILS SHEET
C-3	DETAILS SHEET
C-4	GRADING PLAN
C-5	ON-SITE UTILITIES
C-6	EROSION CONTROL

EARTHWORK QUANTITIES

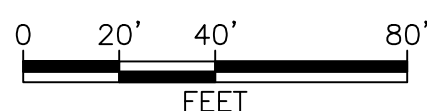
CUT= 1,311 C.Y.
FILL= 129 C.Y.
TOTAL EXPORT = 1182 C.Y.

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.



LOCATION MAP

SCALE 1"=40'



LEGEND

AC	ASPHALT CONCRETE
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

UTILITIES CONTACT

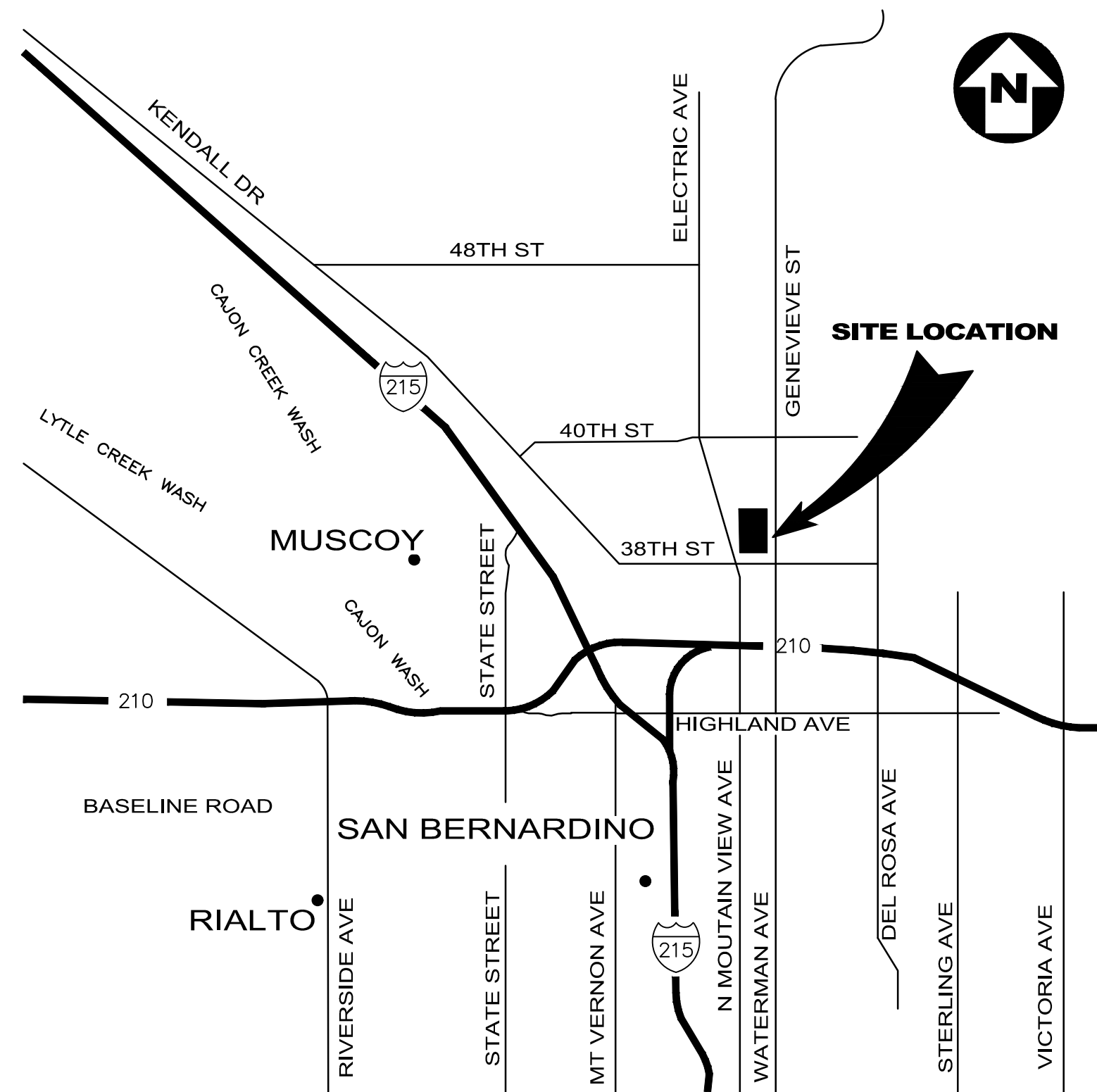
SOUTHERN CALIFORNIA EDISON
1-800-990-7788

SOUTHERN CALIFORNIA GAS
1-800-427-2000

FRONTIER
(877) 599-1870

SPECTRUM
(833) 267-6094

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



VICINITY MAP

NTS

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

SUPERVISING LAND SURVEYOR

ROBERT OLLERTON 7731
R.C.E. NUMBER

SITE ADDRESS

180 W. 38TH STREET, SAN BERNARDINO CA 92405

BENCH MARK

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)

TOTAL DISTURBED AREA

1.18 ACRES

WDID

TBA

GRADING PERMIT

GRAD-2025-000008

ASSESSOR PARCEL NUMBER

0154-281-01

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

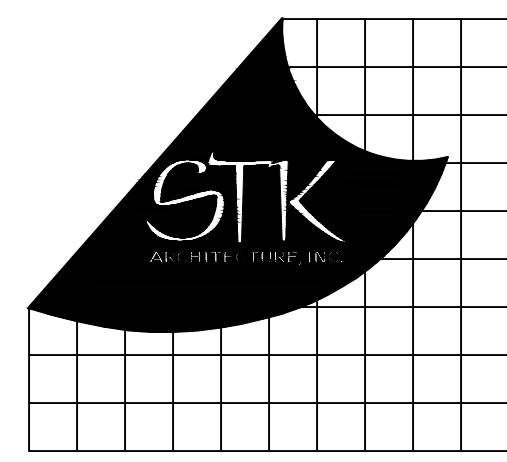
THIS PROJECT IS LOCATED IN FLOOD ZONE X, AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1%ANNUAL CHANCE FLOOD PER FEMA FLOOD INSURANCE RATE MAP NUMBER 06071C7945H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

LEGAL DESCRIPTION

PTN W 1/2 NE 1/4 SEC 22 PT 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:

- IN CASE OF EMERGENCY, CALL ERNESTO GONZALEZ AT 909 387-5000
- 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.
- 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.
- EROSION CONTROL DEVICES SHALL BE FUNCTIONING AT ALL TIMES. IN CASE OF FAILURE, RAPID CONSTRUCTION OF EMERGENCY DEVICES SHALL BE IMPLEMENTED.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- 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.
- 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.
- DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO ENSURE ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY PER PLAN. PROPER PRECAUTION SHALL BE CONSIDERED WHEN 50% OR GREATER PROBABILITY OF PREDICTED PRECIPITATION, AND AFTER ACTUAL 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 BUILDING OFFICIAL.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- 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 SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- ALL STORM WATER CAPTURE DEVICES SHALL BE PROTECTED AT ALL TIMES.
- EROSION AND SEDIMENT CONTROL PRACTICES SHOULD BE IN CONFORMANCE WITH STANDARD PRACTICE. THE MOST COMMON EROSION CONTROL MEASURES ARE:
 - SCHEDULING
 - PRESERVATION OF EXISTING VEGETATION
 - STOCKPILE MANAGEMENT
 - SILT FENCE
 - FIBER ROLLS
 - SANDBAG BARRIER
 - STRAW BALE BARRIER
 - STORM DRAIN INLET PROTECTION
 - CONCRETE WASTE MANAGEMENT
 - VEHICLE AND EQUIPMENT FUELING
 - VEHICLE AND EQUIPMENT MAINTENANCE
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
 - ENTRANCE/EXIT TIRE WASH
 - WIND EROSION CONTROL
 - DUST SHALL BE CONTROLLED BY WATERING.



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: 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:

DATE:	INFORMATION:
03-14-25	Plan Check ☒
05-13-25	Plan Check ☒
06-20-25	Plan Check ☒

08-22-25 BID SET

SHEET INFORMATION:

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

SEAL:

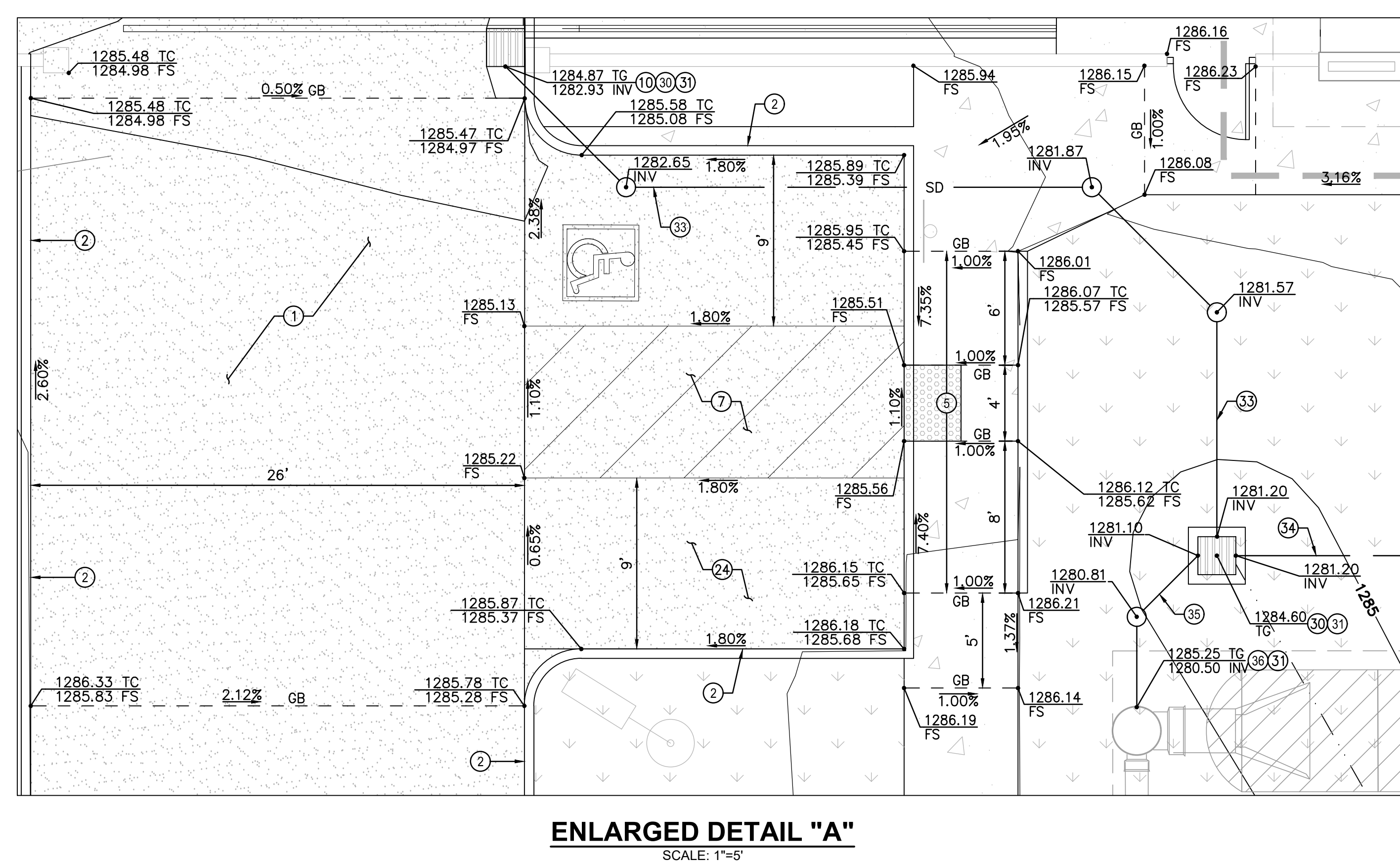
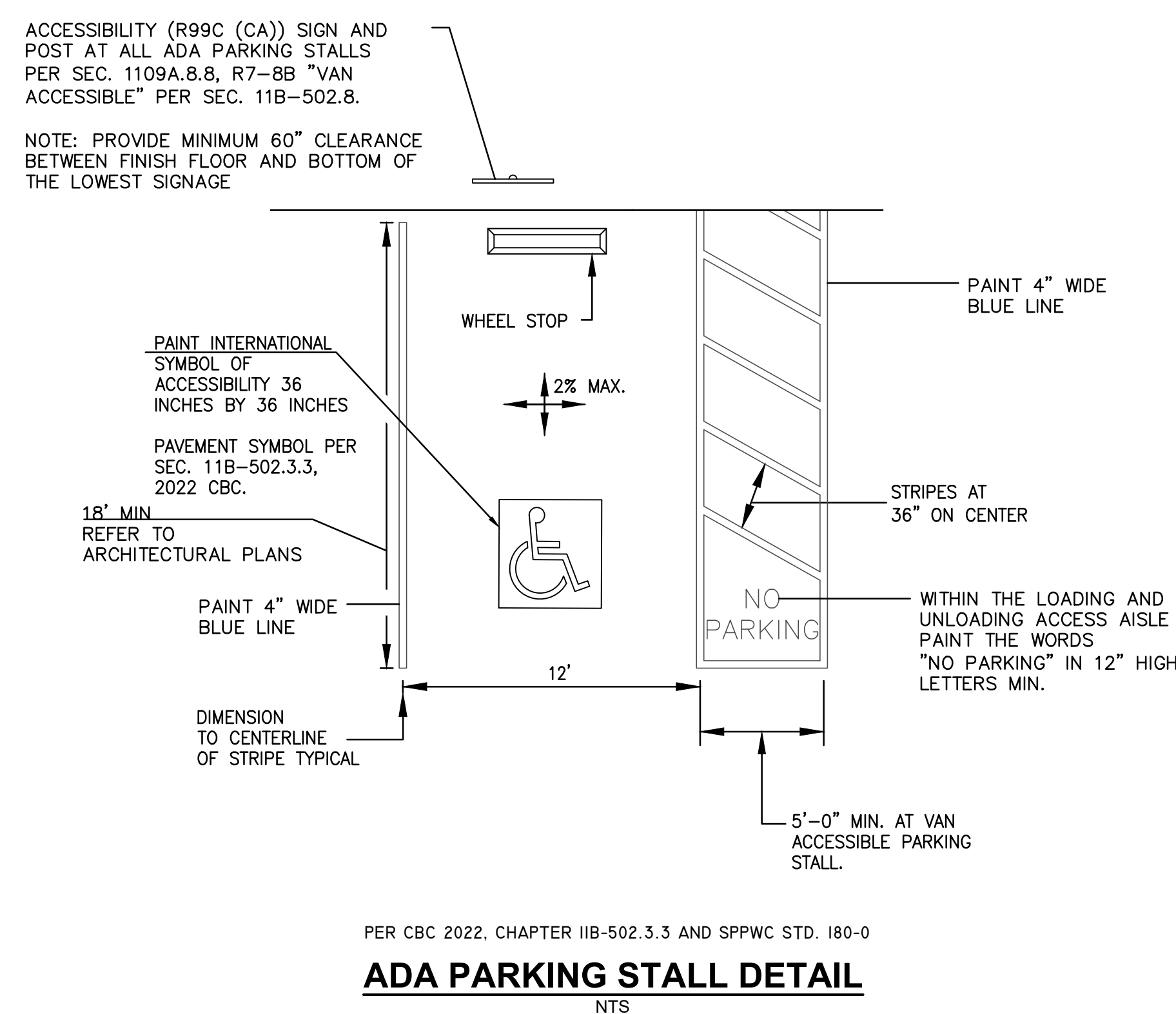
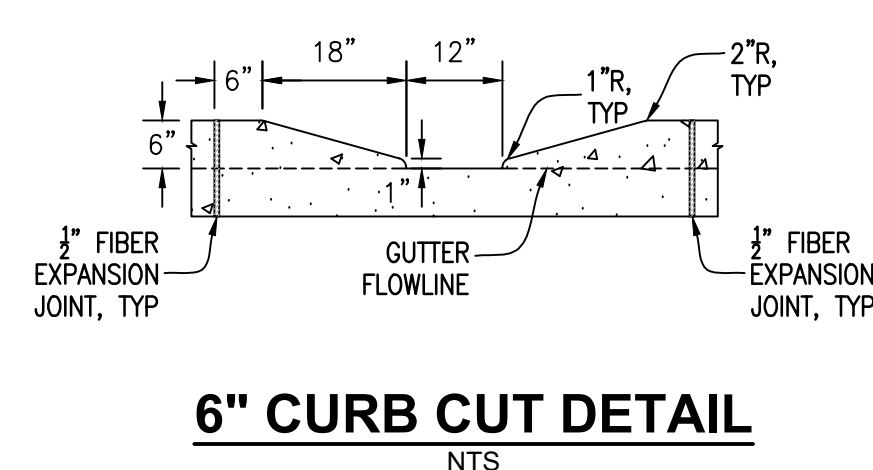
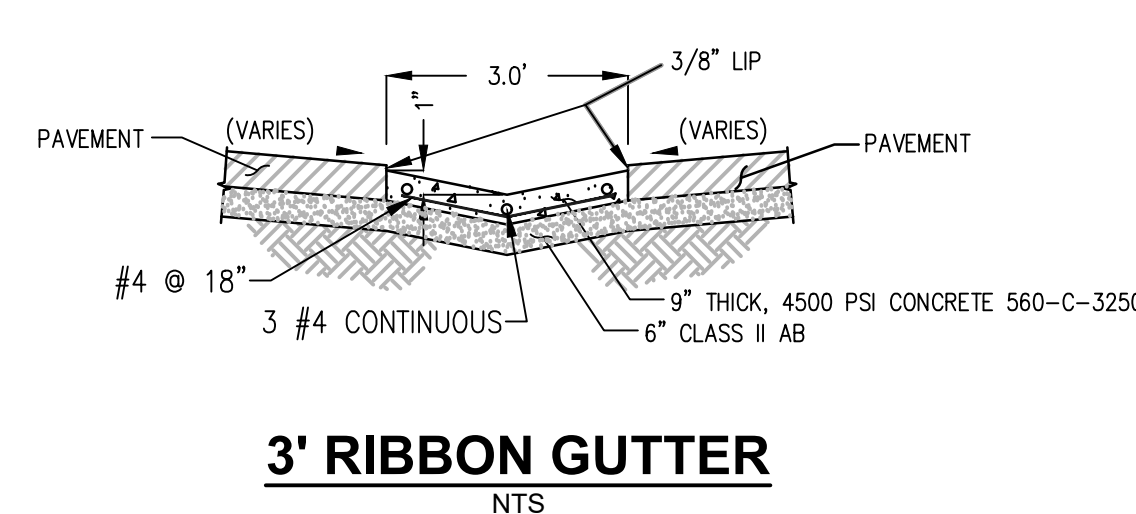
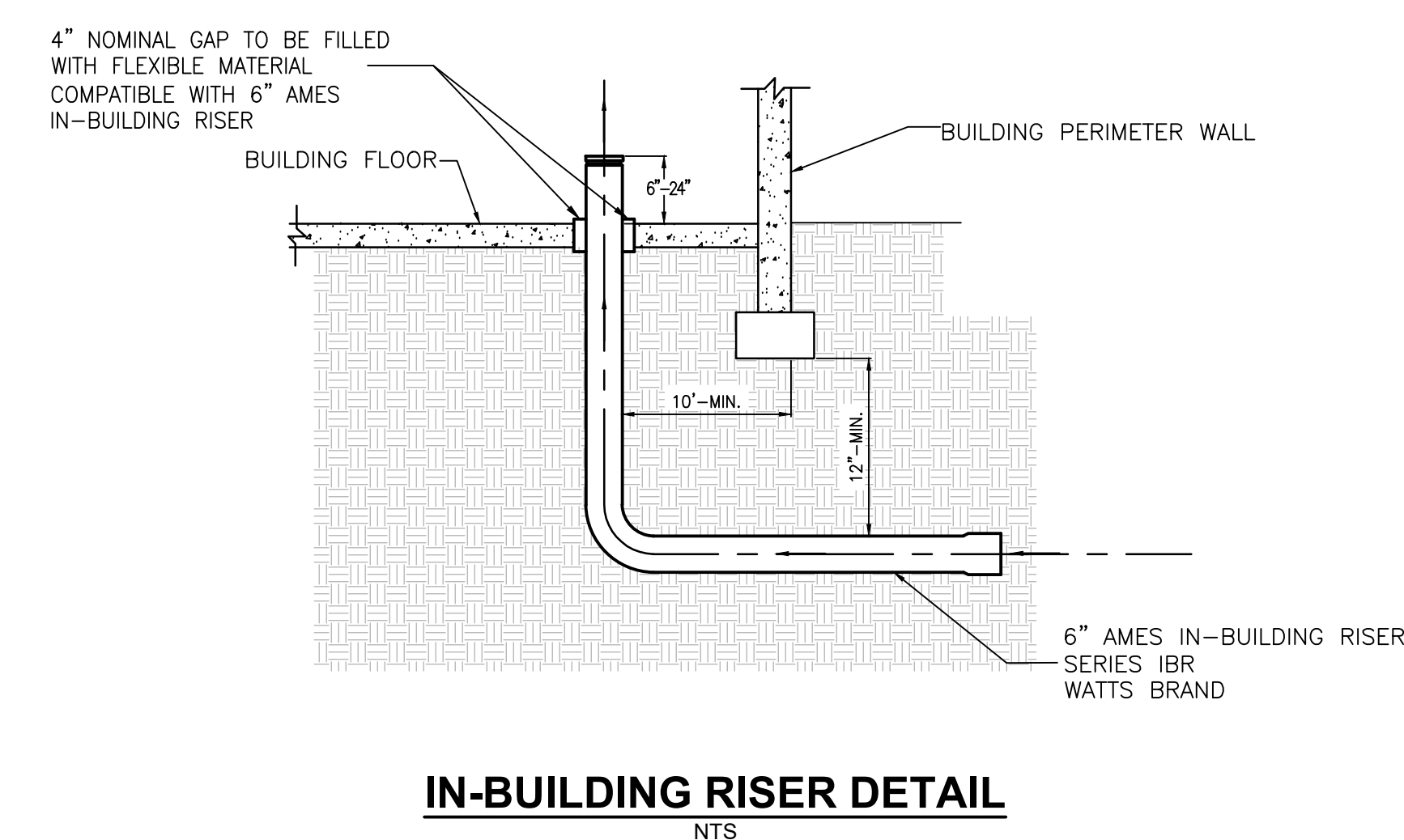
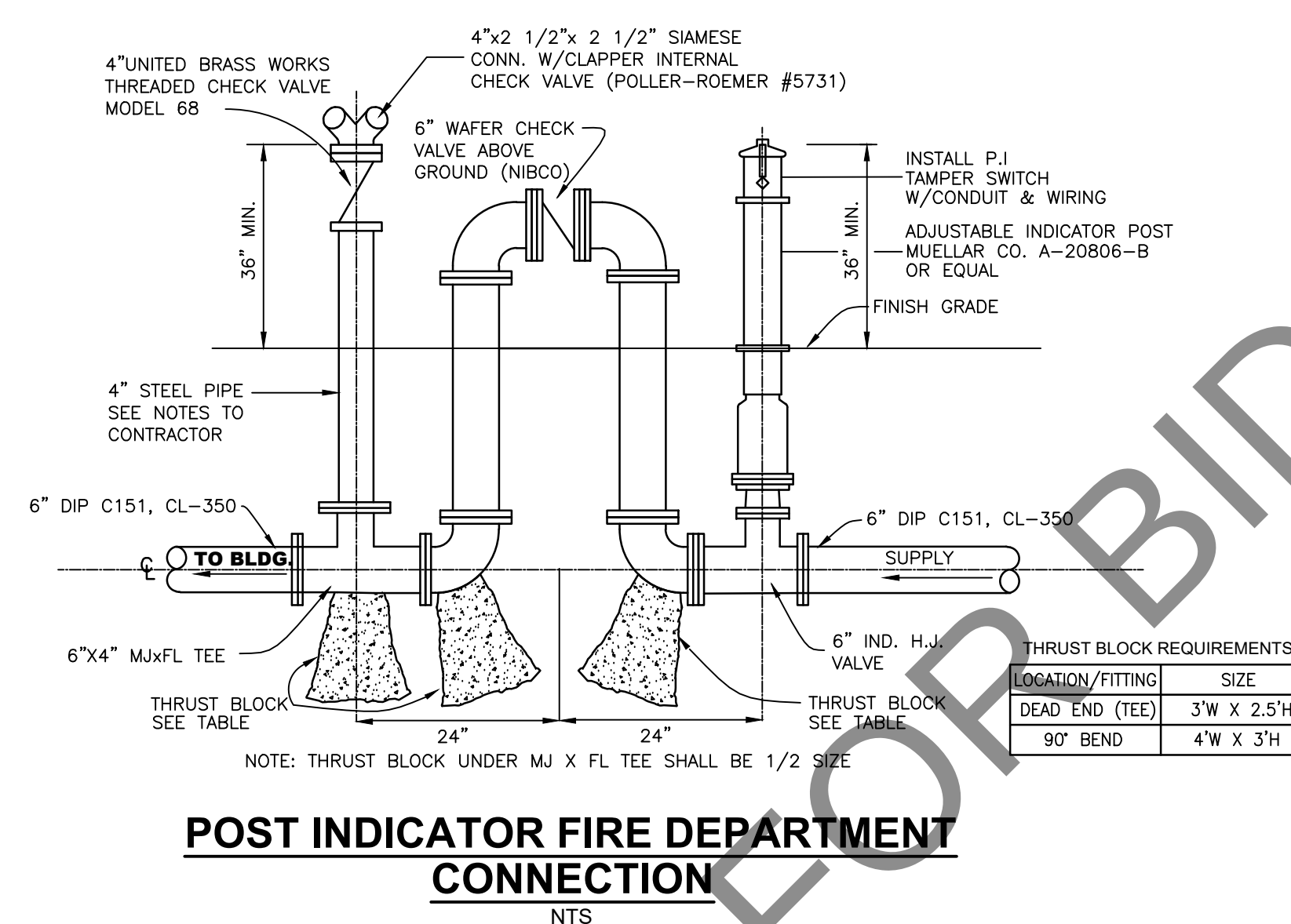
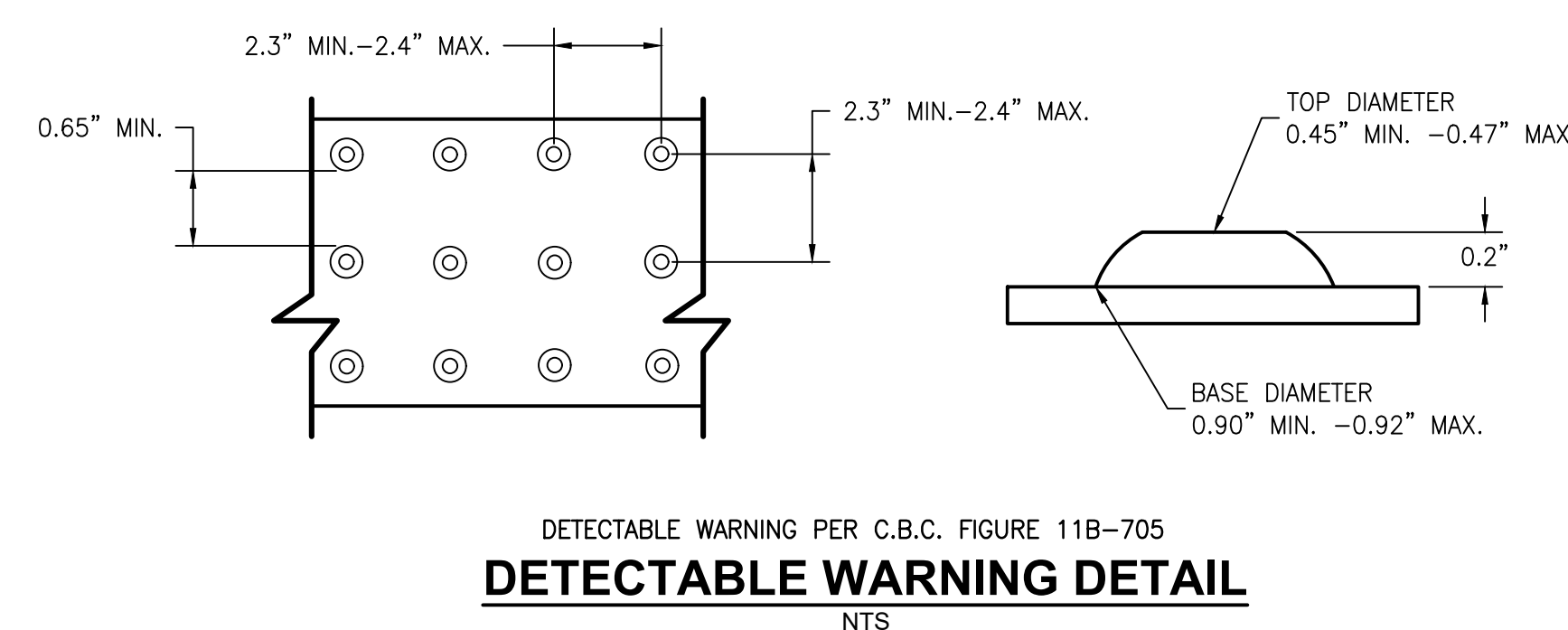
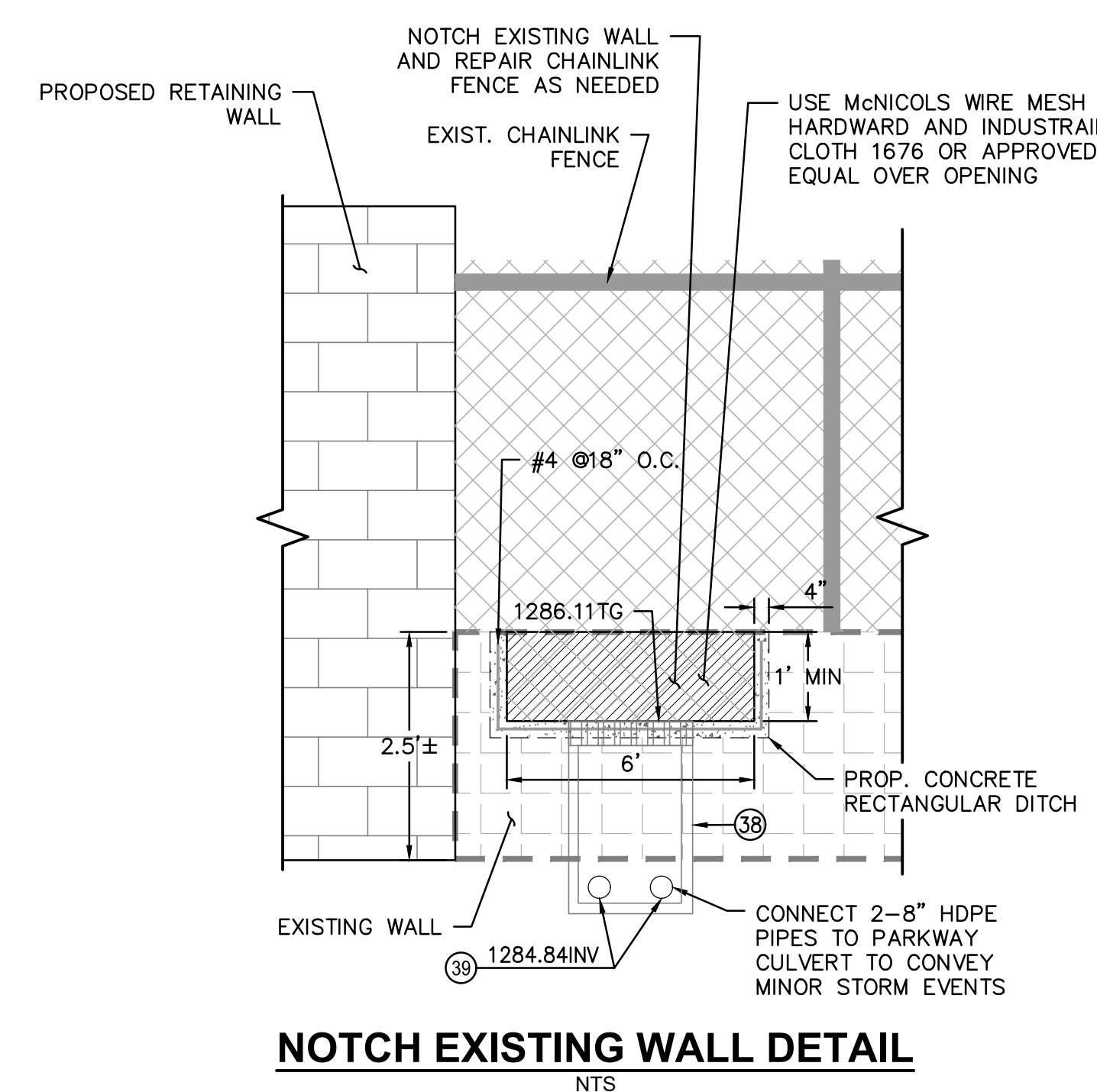
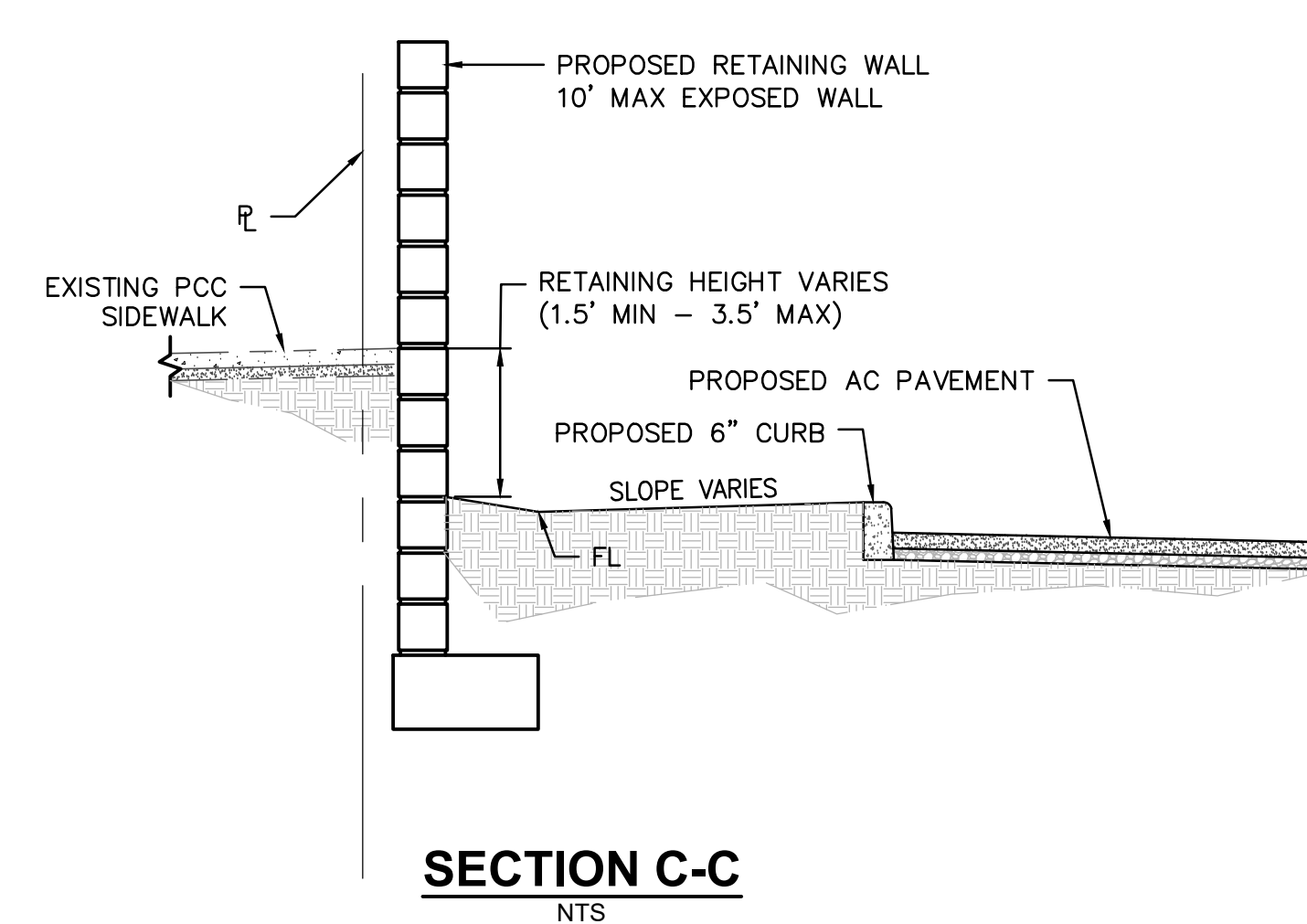
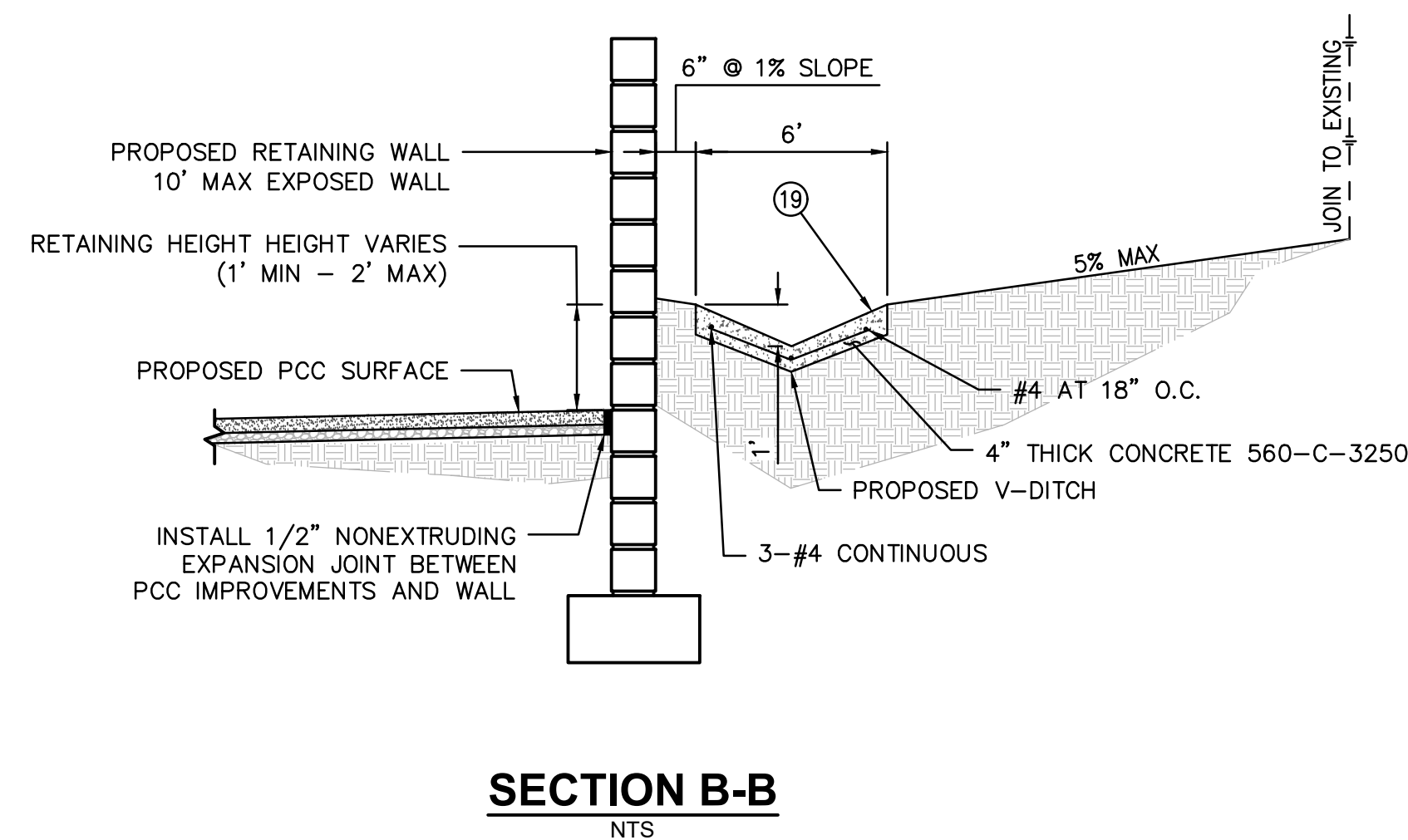
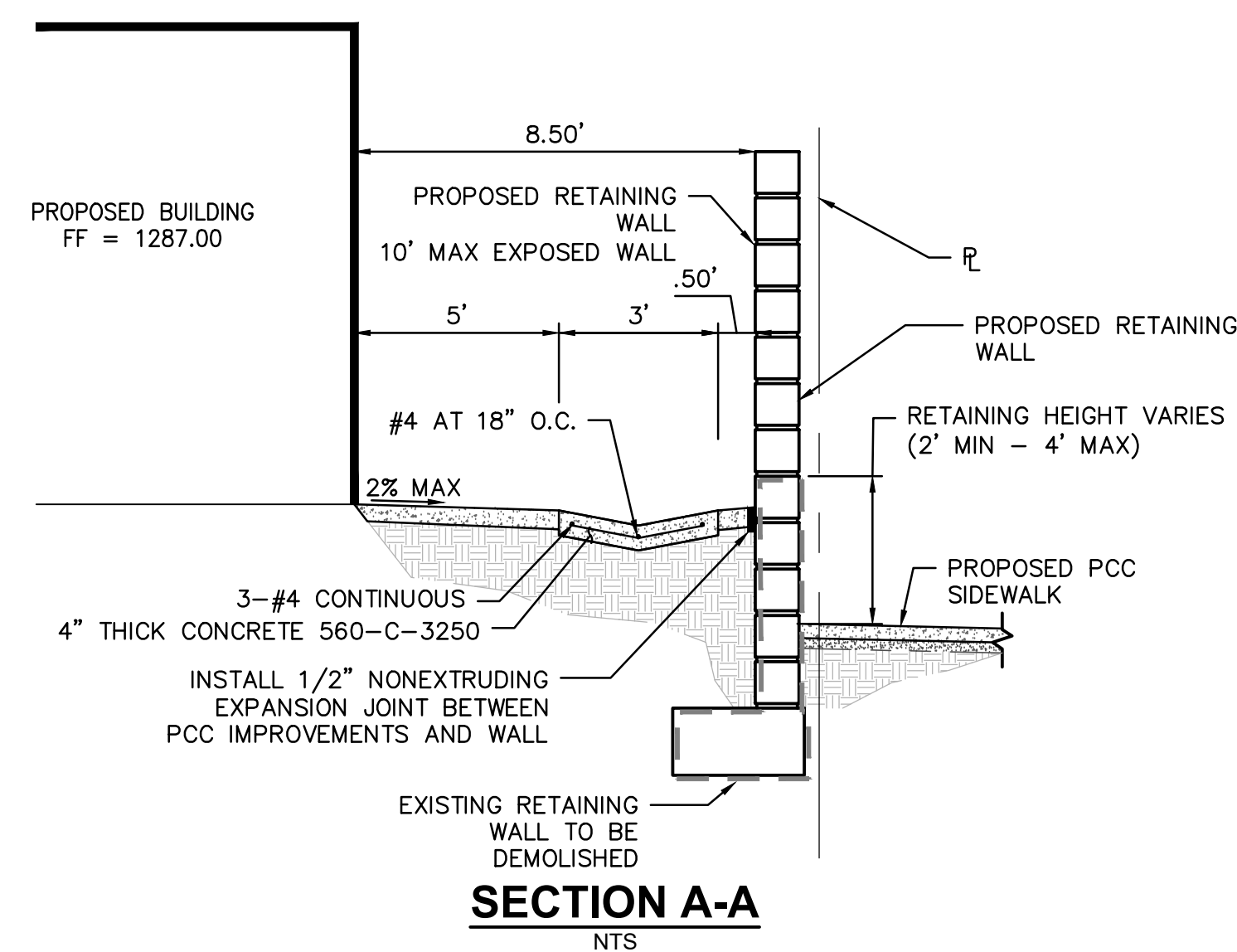


SHEET TITLE:

TITLE SHEET

SHEET NO.:

C-1



- ### CONSTRUCTION NOTES

- ① CONSTRUCT 9" PCC WITH REBAR OVER 6" OF CLASS II AGGREGATE BASE MATERIAL.
- ② CONSTRUCT 6" PCC CURB PER PER CITY OF SAN BERNARDINO STD. DWG. 200
- ③ CONSTRUCT CURB RAMP CASE B, TYPE 1 PER SPWC STD. 111-5
- ⑦ CONSTRUCT HANDICAP STALL PER DETAIL ON SHEET C-2
- ⑩ CONSTRUCT MODIFIED PER PLAN LOCAL DEPRESSION TYPE F PER SPWC STD. DWG. 313-4
- ⑪ CONSTRUCT CONCRETE V-DITCH PER SECTION B-B ON SHEET C-2
- ⑭ CONSTRUCT 5" PCC OVER 4" CLASS II AGGREGATE BASE

- STORM DRAIN NOTES

- ⑤0 INSTALL 24"x24" JENSEN PRECAST DROP INLET BASIN MODEL 2424 WITH GRATE, OR APPROVED EQUAL
- ⑤1 INSTALL ADS FLEXSTORM PURE INLET FILTER PER DETAIL ON SHEET C-3, OR APPROVED EQUAL
- ⑤3 INSTALL 12" HDPE PIPE OR APPROVED EQUAL
- ⑤4 INSTALL 15" HDPE PIPE OR APPROVED EQUAL
- ⑤5 INSTALL 18" HDPE PIPE OR APPROVED EQUAL
- ⑤6 INSTALL 30" DIAMETER NYLOPLAST INLINE DRAIN BASIN
- ⑤7 INSTALL 12"x12" JENSEN PRECAST DROP INLET BASIN MODEL 1212 WITH GRATE, OR APPROVED EQUAL
- ⑤8 INSTALL 36"x36" JENSEN PRECAST DROP INLET BASIN MODEL 3636 WITH GRATE, OR APPROVED EQUAL
- ⑤9 INSTALL 8" HDPE PIPE OR APPROVED EQUAL



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

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SAN BERNADINO,
CA 92405

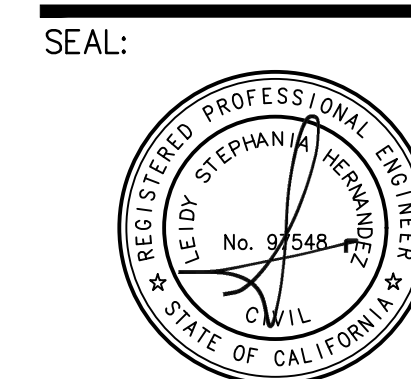
ISSUE INFORMATION:

DATE:	INFORMATION:
03-14-25	Plan Check <u>1</u>
05-13-25	Plan Check <u>2</u>
06-20-25	Plan Check <u>3</u>

08-22-25	BID SET
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SHEET INFORMATION:

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



SHEET TITLE:

DETAILS SHEET

SHEET NO.:

C-2

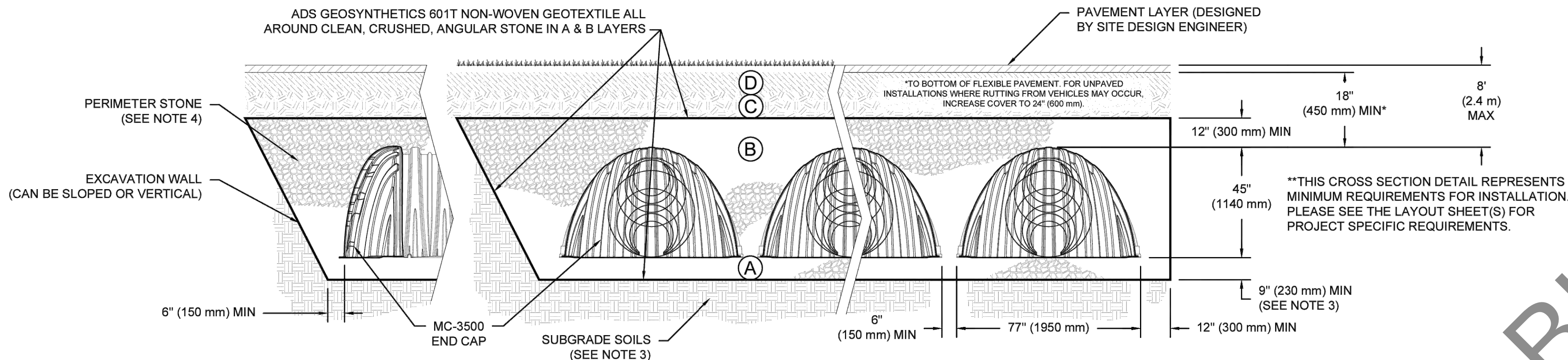
SHT 2 OF 6

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.
C	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.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE ^{2,3}

PLEASE NOTE:

- 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".
- 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 COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- 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".



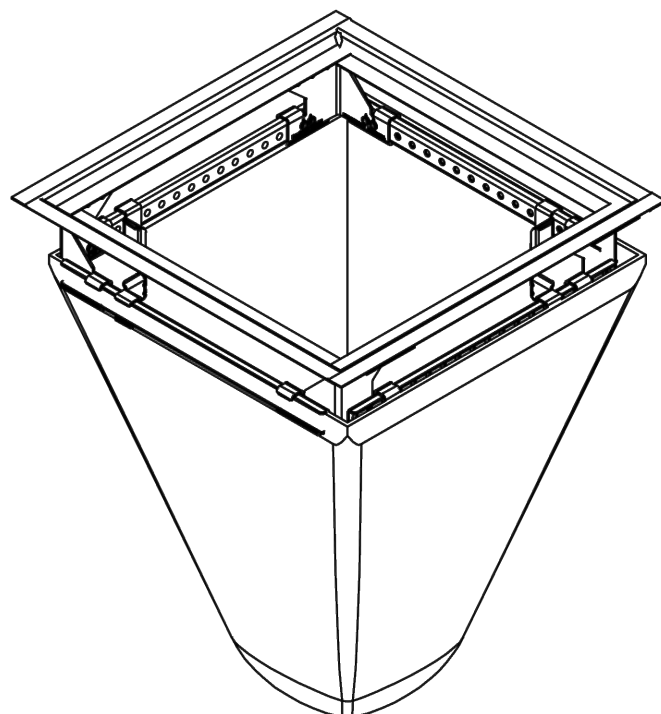
NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 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.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 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/FT²%. 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 YELLOW COLORS.

UNDERGROUND INFILTRATION CHAMBER SYSTEM

SEE WQMP FOR FURTHER DETAILS

NTS



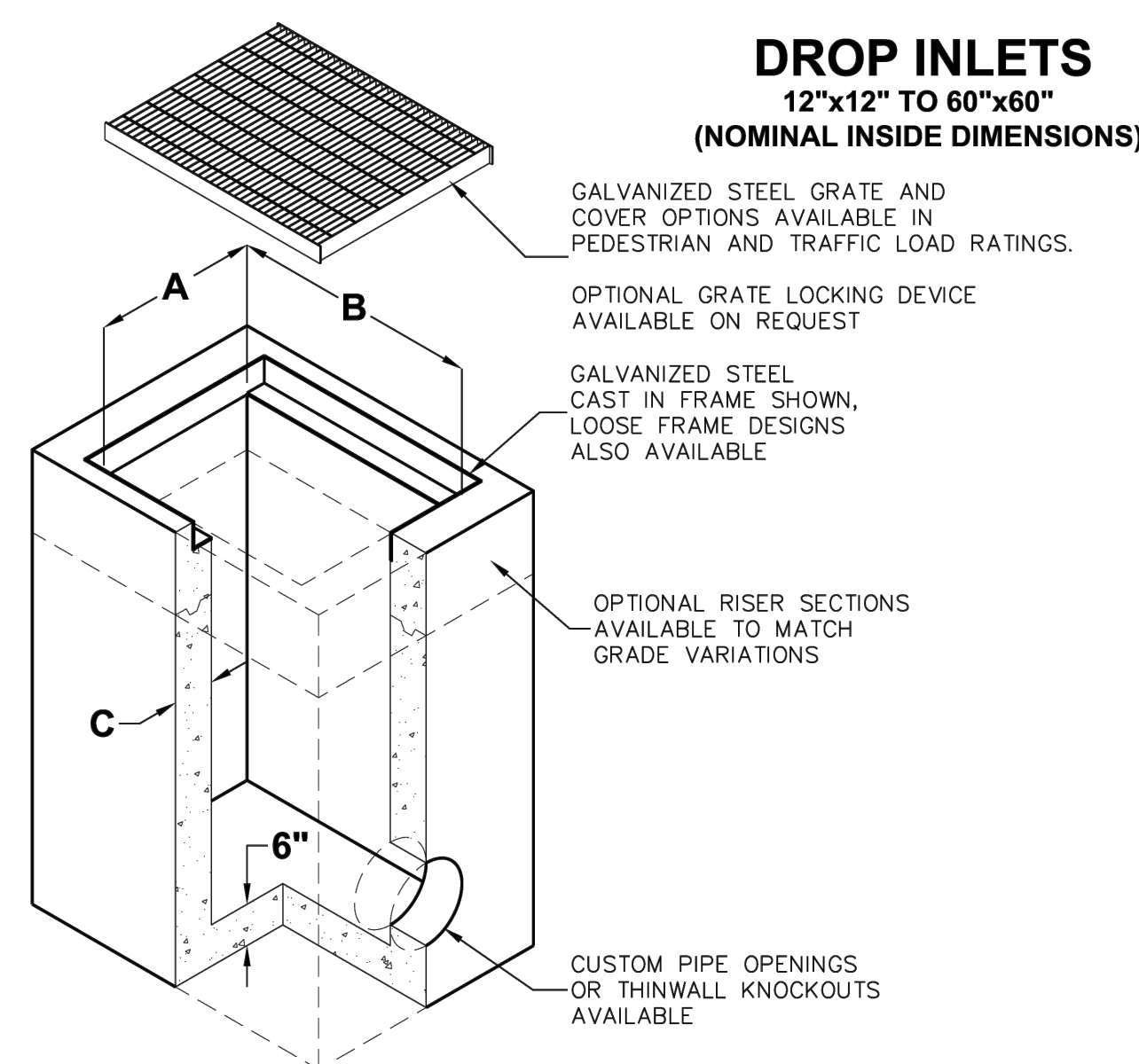
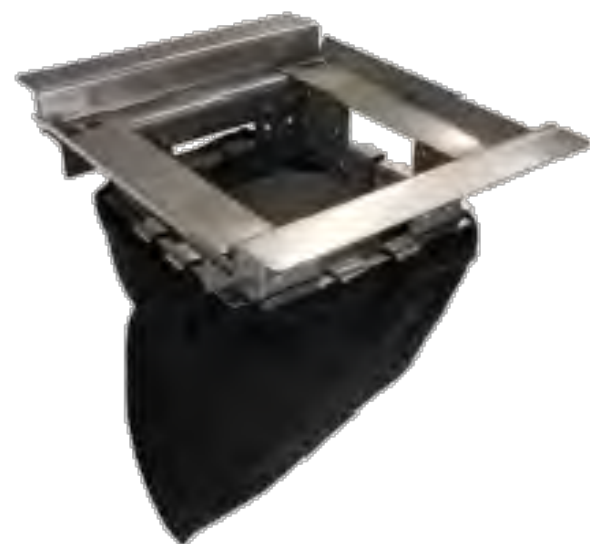
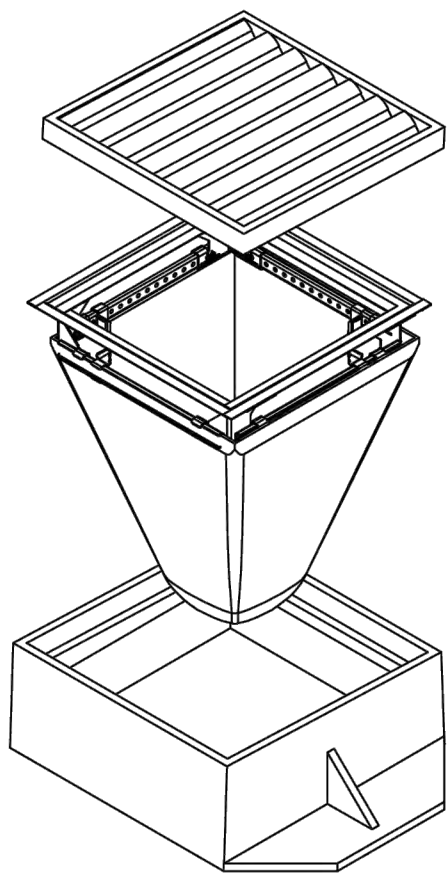
SQUARE/RECTANGULAR INLET FILTER		
Clear Opening Size	Style P/N	Minimum Bypass Flow Rate (CFS)
Small: Up to 64" Perimeter	62SHD	2.4
Medium: 65" - 96" Perimeter	62MHD	3.5
Large: 97" - 120" Perimeter	62LHD	5.0
Extra-Large: 121" or Greater Perimeter	62XLHD	7.2

NOTES:

- ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL.
- 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 STRUCTURE.
- ALL FILTERS MEET ASTM D8057 SPECIFICATIONS.

ADS FLEXSTORM PURE INLET DETAIL
FOR PRECAST CATCH BASIN

NTS

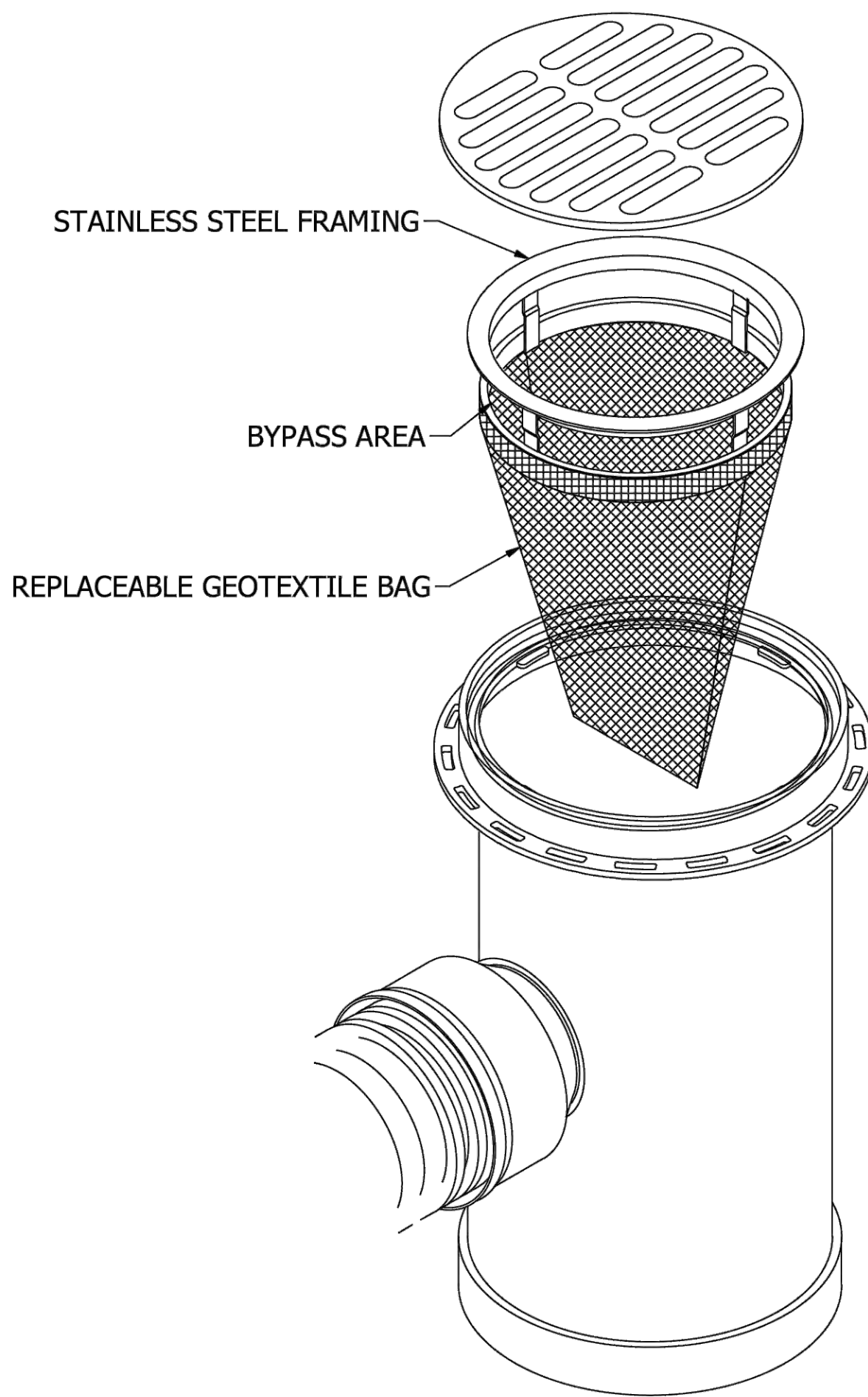


MODEL	A	B	C	WEIGHT CALC - LBS.
1212	12	12	4	208 (BASE) + 266 VF
1616	16	16	5	408 (BASE) + 480 VF
1818	18	18	5	602 (BASE) + 604 VF
2424	24	24	6	675 (BASE) + 750 VF
2436	24	36	6	900 (BASE) + 900 VF
2448	24	48	6	1500 (BASE) + 1050 VF
3030	30	30	6	920 (BASE) + 900 VF
3636	36	36	6	1200 (BASE) + 1050 VF
3648	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.

12/20/2010
D:\CADD\504\504_B.DWG
R2010

Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or advice on product design.

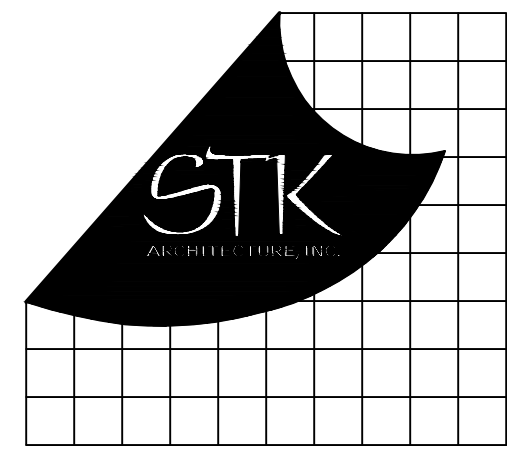
JENSEN
PRECAST

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- ALL FILTERS MEET ASTM D8057 SPECIFICATIONS.

ADS FLEXSTORM PURE INLET DETAIL
FOR NYLOPLAST INLET

NTS

40055 DELVO DR., TEMECULA, CALIFORNIA 92593-3760
Phone: 951.296.8110 Fax: 951.296.6079 Email: sk@stkinc.com

CONSULTANT:

1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT385 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 BERNARDINO,
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

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SEAL:



SHEET TITLE:

DETAILS SHEET

SHEET NO.:

C-3

SHT 3 OF 6

N MOUNTAIN VIEW AVENUE

Line Table			
Line #	Length	Direction	SLOPE
SD1	11.34	N21° 51' 48.12"E	1.42%
SD2	8.49	S45° 00' 00.00"E	3.17%
SD3	23.54	N90° 00' 00.00"E	3.17%
SD4	8.31	S45° 00' 00.00"E	3.17%
SD5	11.31	S0° 00' 00.00"E	3.17%
SD6	4.06	N45° 00' 00.00"E	6.44%
SD7	4.26	N0° 00' 00.00"E	6.44%
SD8	44.23	N89° 57' 57.47"E	0.50%
SD9	43.17	S45° 07' 19.96"E	0.50%
SD10	43.17	S45° 07' 19.96"E	0.50%
SD11	29.58	N90° 00' 00.00"E	0.50%
SD12	39.83	N44° 52' 40.04"E	2.14%
SD13	32.32	N90° 00' 00.00"E	2.14%
SD14	59.10	N0° 00' 00.00"E	2.14%
SD15	59.10	N0° 00' 00.00"E	2.14%
SD16	3.74	N45° 00' 00.00"E	2.14%
SD17	3.00	N90° 00' 00.00"W	6.59%

PROTECT IN PLACE
EXISTING SIDEWALK

PROPOSED FIRE STATION
FF = 1287.00
PAD = 1286.50

FIRE APPARATUS BAY
FF = 1287.00
PAD = 1286.25

PROPOSED CHAMBERS
TOP OF STONE = 84.14
TOP OF CHAMBERS = 83.14
CHAMBERS INV. ELEV. = 79.39
BOTTOM OF ROCK = 78.64

CONSTRUCTION NOTES

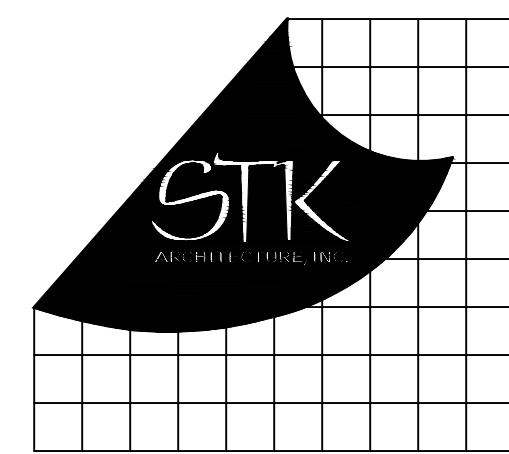
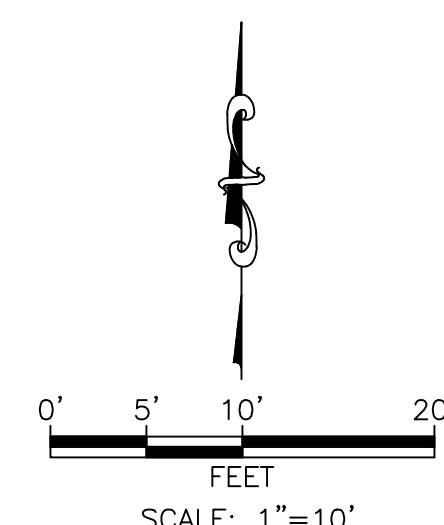
1. CONSTRUCT 9" PCC WITH REBAR OVER 6" OF CLASS II AGGREGATE BASE MATERIAL.
2. CONSTRUCT 6" PCC CURB PER PER CITY OF SAN BERNARDINO STD. DWG. 200
3. CONSTRUCT 6" CURB & GUTTER PER SAN BERNARDINO COUNTY STD. DWG. 116
4. CONSTRUCT 6" CURB CUT PER DETAIL ON SHEET C-2
5. CONSTRUCT CURB RAMP CASE B, TYPE 1 PER SPWPC STD. 111-5
6. CONSTRUCT RETAINING WALL PER ARCHITECTS PLANS AND DETAILS
7. CONSTRUCT HANDICAP STALL PER DETAIL ON SHEET C-2
8. CONSTRUCT 4" THICK PCC SIDEWALK OVER COMPACTED SUBGRADE
9. CONSTRUCT CURB RAMP CASE F PER CALTRANS 2023 STD. PLAN No. AB8A
10. CONSTRUCT MODIFIED PER PLAN LOCAL DEPRESSION TYPE F PER SPWPC STD. DWG. 313-4
11. CONSTRUCT 3" RIBBON GUTTER PER DETAIL ON SHEET C-2
12. INSTALL PARKING STRIPING PER ARCHITECT SPECIFICATIONS
13. CONSTRUCT MODIFIED COMMERCIAL DRIVEWAY APPROACH PER SAN BERNARDINO COUNTY STD. DWG. 129B
14. CONSTRUCT 12" PCC WITH REBAR OVER 6" OF CLASS II AGGREGATE BASE MATERIAL
15. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTS PLANS AND DETAILS
16. CONSTRUCT CURB RAMP PER COUNTY OF SAN BERNARDINO STD. DWG. 110
17. CANOPY PER ARCHITECTS PLAN
18. INSTALL ADS MC-3500 STROMTECH CHAMBERS PER PLANS AND SEPARATE ADS CHAMBERS DESIGN DOCUMENTS PER SHEET C-3 AND WQMP REPORT, OR APPROVED EQUAL
19. CONSTRUCT CONCRETE V-DITCH PER SECTION B-B ON SHEET C-2
20. CONSTRUCT 4" THICK CONCRETE RECTANGULAR DITCH, D=1', W=6"
21. CONSTRUCT 2'-6" HEIGHT CONCRETE WALL, L=10'
22. INSTALL DETECTABLE WARNING SURFACE PER DETAIL ON SHEET C-2
23. CONSTRUCT 0" PCC CURB PER CITY OF SAN BERNARDINO STD. DWG. 200, FLUSH WITH ADJACENT PAVEMENT SURFACE
24. CONSTRUCT 5" PCC OVER 4" CLASS II AGGREGATE BASE

STORM DRAIN NOTES

25. INSTALL 24"x24" JENSEN PRECAST DROP INLET BASIN MODEL 2424 WITH GRATE, OR APPROVED EQUAL
26. INSTALL ADS FLEXSTORM PURE INLET FILTER PER DETAIL ON SHEET C-3, OR APPROVED EQUAL
27. CONSTRUCT PARKWAY CULVERT NO. 1 PER CITY OF SAN BERNARDINO STD. DWG. 400, SECTION INLET TYPE 1, S=4'
28. INSTALL 12" HDPE PIPE OR APPROVED EQUAL
29. INSTALL 15" HDPE PIPE OR APPROVED EQUAL
30. INSTALL 30" DIAMETER NYLOPLAST INLINE DRAIN BASIN
31. INSTALL 12"x12" JENSEN PRECAST DROP INLET BASIN MODEL 1212 WITH GRATE, OR APPROVED EQUAL
32. INSTALL 36"x36" JENSEN PRECAST DROP INLET BASIN MODEL 3636 WITH GRATE, OR APPROVED EQUAL
33. INSTALL 8" HDPE PIPE OR APPROVED EQUAL
34. CONSTRUCT PARKWAY CULVERT NO. 1 PER CITY OF SAN BERNARDINO STD. DWG. 400, SECTION INLET TYPE 1, S=3.5'

GENEVIEVE STREET

38TH STREET



CONSULTANT:



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

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SEAL:



SHEET TITLE:

GRADING PLAN

SHEET NO.:

C-4

SHT 4 OF 6