CITY OF CLAREMONT ROADWAY IMPROVEMENTS

FOR MILLS AVENUE BETWEEN MORENO STREET AND ARROW HIGHWAY C.I.P. 2025-07

AGENCY UTILITY CONTACTS

CROWN CASTLE COMMUNICATIONS	(724)-416-2973
FRONTIER COMMUNICATIONS	(951) 723-0736
GOLDEN STATE WATER	(909) 625-3314
LEVEL 3 COMM/LUMEN	(877) 366-8344
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	(626) 969-7911
SOCAL GAS	(909) 335-7955
SOUTHERN CALIFORNIA EDISON	(909) 548-7249
SOUTHERN CALIFORNIA EDISON - TELECOM	(909) 329-9445
SPECTRUM	(626) 430-3522
SPRINT	(800) 521-0579
THREE VALLEYS MUNICIPAL WATER DISTRICT	(909) 621-5568



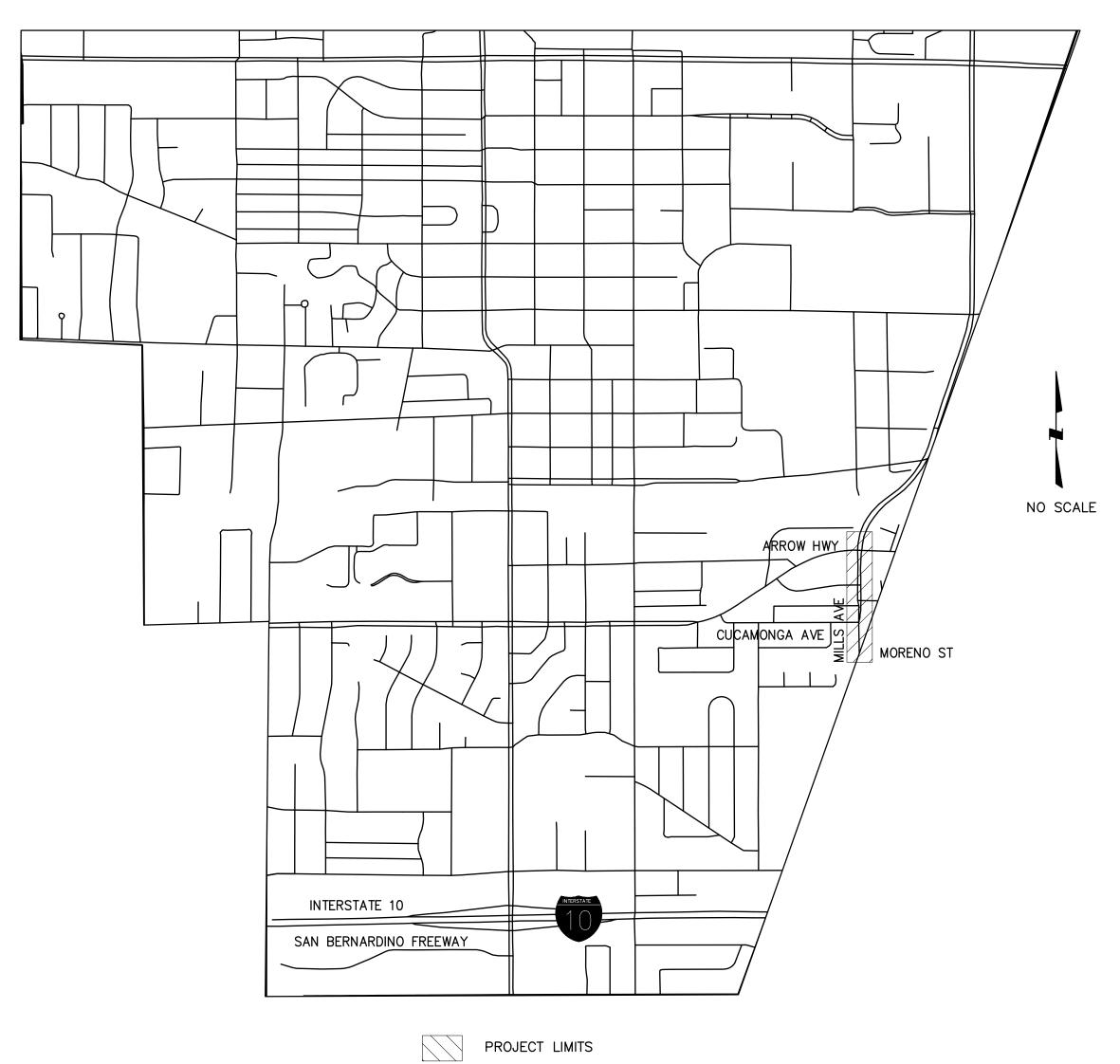
NO.	SHEET	DESCRIPTION
1	TITLE SHEET	TITLE SHEET
2	GENERAL NOTES	GENERAL NOTES, CONSTRUCTION NOTES
3	ROADWAY IMPROVEMENTS	MILLS AVENUE AND CUCAMONGA AVENUE
4	ROADWAY IMPROVEMENTS	MILLS AVENUE AND CUCAMONGA AVENUE
5	SIGNING AND STRIPING PLAN	MILLS AVENUE FROM MORENO STREET TO ARROW HIGHWAY
6	SIGNING AND STRIPING DETAILS	SIGNING AND STRIPING DETAILS
7	ROADWAY DETAILS	DRAIN BASIN, INLINE DRAIN, & ROAD ASPHALT INSTALLATION DETAIL
8	ROADWAY DETAILS	TRENCH INSTALLATION DETAIL

ABBREVIATIONS

ASPHALT CONCRETE BACK OF SIDEWALK CUCAMONGA AVENUE FIRE HYDRANT FLOW LINE FINISHED SURFACE LIP OF GUTTER MILLS AVENUE PULL BOX POWER POLE RIGHT OF WAY STATION TOP OF CURB TOP OF RETAINING CURB WATER METER



VICINITY MAP:



Call before you dig.

DATE REVISIONS



CITY ENGINEER R.C.E NO. 74405

NOTICE TO CONTRACTOR:

- 1. IN ADDITION TO SIGNS REQUIRED BY THE APPROVED TRAFFIC CONTROL PLANS, TWO MESSAGE BOARDS GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION, MUST BE FURNISHED AND PLACED AS A PART OF THIS
- 2. CONTRACTOR IS REQUIRED TO CALL USA (811) DIG ALERT 2 WEEKS PRIOR TO THE START OF CONSTRUCTION.
- 3. SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SURVEY FIELD NOTES PER SECTION 2-9 OF THE STANDARD SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL HAVE GRADE SHEETS AND DESIGN CHANGES APPROVED BY THE PRIVATE ENGINEER OF RECORD AND THE CITY ENGINEER.
- 5. ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. (SSPWC).
- 6. A. REMOVE ALL EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT. PRIOR TO REMOVING ANYTHING NOT SHOWN OR CALLED OUT ON THE DEMOLITION PLANS, APPROVAL FROM THE INSPECTOR/ENGINEER IS REQUIRED. TREES NOT SHOWN ON PLANS THAT ARE IN JEOPARDY OF BEING REMOVED SHALL BE DONE SO ONLY WITH THE CITY ARBORIST'S WRITTEN APPROVAL PRIOR TO DOING SO.
- B. SAWCUT AND REMOVAL OF CONCRETE SHALL BE TO THE NEAREST SCORE LINE.
- 7. CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.5% SHALL BE SET AT 12.5 FEET ON CENTER.
- 8. THE CONTRACTOR SHALL GIVE REASONABLE NOTICE (MIN. TWO WEEKS) TO ADJACENT PROPERTY OWNERS OR OCCUPANTS OF THIS IMPROVEMENT FRONTING THEIR PROPERTY PER SECTION 7-9 OF THE STANDARD SPECIFICATION. COPY OF THIS NOTICE SHALL BE PROVIDED TO THE CITY ENGINEER OR PROJECT MANAGER FOR
- 9. UNDERGROUND UTILITY SERVICES TO ADJACENT PROPERTIES ARE EXISTING AND SHALL BE PROTECTED REGARDLESS OF REPRESENTATION OF THE PLANS.

CITY OF CLAREMONT

TITLE SHEET

MILLS AVENUE BETWEEN MORENO STREET AND ARROW HIGHWAY

R.C.E.

SCALE	NA	DRAWN BY	NP	DRAWIN	G NUMBER
DATE	10/02/2025	CHECKED	JD	□ F	202-2504
F.B. NO.		RECOMMENDE	D	•	(OZ ZOO 1
APPROVED				4	SHEET o

DATE

GENERAL NOTES:

- CONTRACTOR MUST VERIFY ALL DIMENSIONS IN FIELD AT START OF PROJECT. DRAWINGS ARE NOT BASED ON SITE SURVEY, REPORT ANY DISCREPANCY IMMEDIATELY TO PROJECT MANAGER.
- CONTRACTOR MUST CALL DIGALERT PRIOR TO START OF ANY WORK.
- 3. THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY PROJECT MANAGER.
- 4. ALL WORK SHALL BE PERFORMED ACCORDING TO CBC, CMC, CPC, CEC, ASTM D1557, ASTM D1556, ALL APPLICABLE CITY OF CLAREMONT STANDARDS, CITY ORDINANCE, CALIFORNIA ENERGY STANDARDS AND THE 2024 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY SUPPLEMENTS.
- 5. THIS WORK SHALL BE INSTALLED BY A CALIFORNIA STATE "A" LICENSED CONTRACTOR WHO SHALL CARRY WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY THE CITY OF CLAREMONT.
- 6. CHECK FOR EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION WORK. NOTIFY PERTINENT UTILITIES AND UNDERGROUND SERVICE ALERT AT 8-1-1 TWO WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
- 7. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE SHOWN IN THESE PLANS WAS OBTAINED BY A SEARCH OF AVAILABLE RECORDS. NO CERTIFICATION IS MADE AS TO ACCURACY OR THOROUGHNESS OF THESE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF CLAREMONT DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF COMPLETENESS. LOCATION. THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE WITHIN THE LIMITS OF THE PROJECT.
- 8. CONTRACTOR SHALL ARRANGE AND PAY FOR ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION (PERMIT ISSUED BY THE CITY OF CLAREMONT WILL BE NO FEE), AND ARRANGE AND PAY FOR ALL REQUIRED DEPUTY OR SPECIAL INSPECTIONS.
- 9. CONTRACTOR SHALL PROVIDE PRELIMINARY AND FINAL LIEN RELEASES FROM ALL SUB-CONTRACTORS PRIOR TO FINAL PAYMENT.
- 10. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH DEMOLITION OR CONSTRUCTION SHOWN WHEN IT IS OBVIOUS THAT UNKNOWN CONDITIONS, OBJECTS, OR GRADE CHANGES EXIST THAT MAY HAVE NOT BEEN KNOWN DURING THE PREPARATION OF THIS PLAN. SUCH CONDITIONS, OBJECTS, OR GRADE CHANGES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTICE.
- 11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER, WATER, AND LIGHTING AS REQUIRED TO PERFORM THE WORK.
- 12. CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO THE WORK. ALL CONSTRUCTION DEBRIS SHALL BE CLEARED FROM THE SITE AT THE END OF EACH
- 13. CONTRACTOR'S ON-SITE DUMPSTER MUST BE FROM THE CITY OF CLAREMONT LIST OF APPROVED COMPANIES.
- 14. CONTRACTOR SHALL ADHERE TO ADA REQUIREMENT/GUIDELINES AND MAINTAIN A CLEAR PATH OF TRAVEL FOR PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION.
- 15. CONTRACTOR SHALL MAINTAIN STREET LIGHTING AT ALL TIMES DURING CONSTRUCTION.
- 16. THE CONTRACTOR SHALL REPAIR ANY BROKEN OR DAMAGED CURB, GUTTER, SIDEWALK, AND PAVEMENT DUE TO CONSTRUCTION OF THIS PROJECT. INCLUDING BUT NOT LIMITED TO ALL EXISTING PUBLIC IMPROVEMENTS OR INFRASTRUCTURE WITHIN PUBLIC RIGHT OF WAY.
- 17. CONTRACTOR MUST MAINTAIN ALL TRAFFIC SIGNS IN ERECT POSITIONS. ALL EXISTING SIGNS AND POSTS LOCATED WITHIN THE PUBLIC RIGHT OF WAY THAT INTERFERE WITH PROPOSED WORK SHALL BE REMOVED PRIOR TO WORK COMMENCING AND REPLACED IN KIND ONCE WORK HAS BEEN COMPLETED. UNLESS OTHERWISE STATED ON THE SIGNING & STRIPING PLANS FOR THIS PROJECT.
- 18. CONTRACTOR SHALL NOTIFY RESIDENTIAL PROPERTY OWNERS 72 HOURS AND BUSINESS ESTABLISHMENTS 96 HOURS PRIOR TO ANY CLOSURE OF THEIR EXISTING DRIVEWAYS AND PRIMARY PROPERTY ACCESS, AND SHALL PROVIDE PROOF OF CONTACT TO THE PROJECT MANAGER PRIOR TO THE START OF THIS WORK/CLOSURE.
- 19. CONTRACTOR SHALL TRACK ALL CHANGES TO THE ORIGINAL BID SET AND PROVIDE A COMPLETE AS-BUILT SET TO THE CITY AT THE COMPLETION OF THE PROJECT.
- 20. ACTUAL EXISTING SITE CONDITIONS MAY DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. LOCATION OF EXISTING AND ABANDONED UTILITIES IS UNKOWN OR FROM RECORD DATA ONLY. THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION LOCATIONS OF ALL UTILITIES PRIOR TO BIDDING AND CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AS-BUILT RECORDS OF EXISTING UTILITIES AND INFORM THE ENGINEER IN CASE OF DISCREPANCIES.
- 21. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITIES FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY. REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 22. THE CONTRACTOR SHALL VERIFY THE PRESENCE, LOCATION, AND MATERIAL OF ALL AFFECTED OF CONFLICTING UTILITIES AS NECESSARY FOR CONSTRUCTION. UTILITY VERIFICATION AND NOTIFICATION SHALL BE MADE IN A TIMELY MANNER SO AS TO ALLOW FOR ALTERNATIVE PLANNING WITHOUT AFFECTING THE CONSTRUCTION SCHEDULE MATERIALLY.
- 23. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- 24. PRODUCTS THAT ARE DESIGNATED BY THE MANUFACTURER MAY SUBSTITUTED BY EQUAL PRODUCTS SUBJECT TO PRIOR WRITTEN APPROVAL OF THE CITY PROJECT MANAGER. SUBSTITUTE AND REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE CITY TWO WEEKS PRIOR TO THE BID OPENING. SUBMITTALS RECEIVED AFTER THIS DATE WILL BE DISREGARDED.
- 25. CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY OF ALL PERSONS AND PROPERTY IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONALS HARMLESS OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 26. CONTRACTOR SHALL FOLLOW THE NATIONAL POLLUTANT DISCHARGE ELIMINATION (NPDES) GUIDELINES.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CONSTRUCTION SURVEY IF IT IS DEEMED NECESSARY.
- 28. ALL THE ITEM/EQUIPMENTS NOT REMOVED AS PART OF THE CONTRACT MUST BE PROTECTED IN PLACE AND ADJUSTED BY THE CONTRACTOR.
- 29. THE CONTRACTOR SHALL REMOVE TEMPORARY DELINEATION, SIGNAGE, AND OTHER DEVICES WHEN NO LONGER REQUIRED, AND SHALL RESTORE AREAS TO ORIGINAL CONDITIONS.
- 30. THE CONTRACTOR SHALL COVER EXISTING SIGNS WHERE THEY CONFLICT WITH CONSTRUCTION DETOURS AND SIGNING.

GENERAL NOTES (CONTINUED):

- THE CONTRACTOR SHALL NOTIFY THE CITY OF CLAREMONT PUBLIC WORKS DEPARTMENT 48 HOURS IN ADVANCE OF BEGINNING WORK AT 909-399-5395.
- 32. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES DURING WORK HOURS. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS/OPERATORS.
- 33. THE CONTRACTOR SHALL PROVIDE FOR SAFE PEDESTRIAN ACCESS AT ALL TIMES.
- 34. THE CONTRACTOR SHALL PROVIDE FLAGMEN AS INDICATED ON THE PLAN, AT ALL TIMES TRAFFIC CONTROL IS IN PLACE, TO GIVE ADEQUATE WARNING TO TRAFFIC OR TO THE PUBLIC OF ANY UNEXPECTED CONDITIONS TO BE ENCOUNTERED.
- 35. ALL OPEN EXCAVATION OR CONSTRUCTION WORK SHALL BE A MINIMUM OF 3' FROM ANY OPERATION TRAFFIC LANES.
- 36. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.

SIGNING AND STRIPING GENERAL NOTES:

- 1. SIGNING AND STRIPING SHALL CONFORM TO THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), CALTRANS STANDARD PLANS, CALTRANS STANDARD SPECIFICATIONS, THE CITY OF CLAREMONT STANDARD PLANS, AND THE SPECIAL PROVISIONS.
- 2. ALL NEW PAVEMENT STRIPING, PAVEMENT MARKERS, PAVEMENT LEGENDS, ARROWS, MARKINGS, AND CURB PAINTING SHALL CONFORM TO THE 2022 CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS, SECTION 82 SIGNS AND MARKINGS, AND SECTION 84 MARKINGS, AND PROJECT SPECIAL PROVISIONS.
- 3. ALL PAVEMENT MARKINGS AND SIGN LOCATIONS MUST BE INSPECTED AND APPROVED BEFORE STRIPING BEGINS. THE INSPECTOR SHALL DETERMINE THE EXACT LIMITS OF THE MATCH STRIPING.
- 4. CALTRANS STANDARD STRIPING DETAILS SHALL INCLUDE THE STRIPING AND RAISED PAVEMENT MARKERS, AS NOTED. ALL STRIPING SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE ON THE PLAN.
- 5. ALL SIGNS SHALL BE STANDARD SIZE AND SHALL CONFORM TO THE CURRENT CAMUTCD AND CALTRANS SIGN SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE PLAN.
- 6. STRIPING, PAVEMENT MARKINGS, AND LEGENDS SHALL BE PAINT AND SHALL CONFORM TO CURRENT CALTRANS STANDARD PLANS A20A-D AND A24A-G.
- 7. SANDBLAST CONFLICTING EXISTING PAINT STRIPING. GRIND CONFLICTING THERMOPLASTIC STRIPING. REMOVE RAISED PAVEMENT MARKERS (RPM) WHERE NECESSARY.
- 8. ALL PAINTED CURBS SHALL BE DOUBLE COATED IN NOT LESS THAN 7 DAYS, BUT NO MORE THAN 14 DAYS
- FROM DATE OF INITIAL INSTALLATION.
- 9. THE POST MATERIAL SHALL BE "TELESPAR QWIK-PUNCH" OR APPROVED EQUAL WITH RECEPTIVE 30-INCH OR 36-INCH ANCHOR ASSEMBLY.
- 10. CONTRACTOR SHALL BLOCK OUT STAMPED CONCRETE FOR SIGN-POST SLEEVES.
- 11. SIGNS AND POSTS SHALL BE INSTALLED PER CITY STANDARD PLAN 1062 AND HAVE 3M 1160 GRAFFITI
- OVERLAY FILM OR AS INDICATED ON THE STRIPING PLAN. 12. MEDIAN NOSE SIGNS AND POSTS SHALL BE INSTALLED PER CITY STANDARD PLAN 1014 AND HAVE 3M 1160 GRAFFITI OVERLAY FILM OR AS INDICATED ON THE STRIPING PLAN.
- 13. CROSSWALKS SHALL BE INSTALLED PER CITY STANDARD PLAN 1069 OR AS INDICATED ON THE STRIPING PLAN. ALL CROSSWALKS SHALL BE THERMOPLASTIC.
- 14. TURNING LANE PAVEMENT MARKINGS SHALL BE INSTALLED PER CALTRANS STANDARD PLAN A24A OR AS INDICATED ON THE STRIPING PLAN.
- 15. LIMIT LINES AND "STOP" PAVEMENT MARKING SHALL BE INSTALLED PER CALTRANS STANDARD PLAN A24D OR AS INDICATED ON THE STRIPING PLAN.
- 16. BIKE LANES SHALL BE INSTALLED PER CALTRANS STANDARD PLAN A24C OR AS INDICATED ON THE
- 17. SIGNING SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON PLAN.
- 18. CONTRACTOR SHALL INSTALL BLUE RAISED PAVEMENT MARKERS ADJACENT TO ALL FIRE HYDRANTS WITHIN THE PROJECT LIMITS IN ACCORDANCE TO THE CURRENT CAMUTCD.
- 19. SALVAGED SIGNS AND POSTS SHALL BE DELIVERED TO THE CITY YARD. AS INDICATED BY THE ENGINEER.

SIGNING AND STRIPING CONSTRUCTION NOTES:

- (1) CONTRACTOR TO INSTALL THERMOPLASTIC "LADDER" STYLE CROSSWALK 10' WIDTH FROM INSIDE TO INSIDE OF 12" SOLID WHITE THERMOPLASTIC STRIPE PER CITY OF CLAREMONT STD DWG NO. 1069. ALL CROSSWALK MARKINGS SHALL BE THERMOPLASTIC AND APPLIED PER THE SPECIAL PROVISIONS.
- (2) CONTRACTOR TO INSTALL THERMOPLASTIC 12" WHITE RETROREFLECTIVE LIMIT LINE (STOP LINE) PER CALTRANS STD. PLAN A24G, OR AS DIRECTED BY THE ENGINEER.
- (3) CONTRACTOR TO INSTALL THERMOPLASTIC DOUBLE YELLOW RETROREFLECTIVE CENTERLINE PER CALTRANS STD. PLAN A20A, DETAIL 22. OR AS DIRECTED BY THE ENGINEER.
- (4) CONTRACTOR TO INSTALL THERMOPLASTIC TWO-WAY LEFT TURN YELLOW RETROREFLECTIVE
- CENTERLINE PER CALTRANS STD. PLAN A20B, DETAIL 32. OR AS DIRECTED BY THE ENGINEER.

(5) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE CHANNELIZING LINE PER

- CALTRANS STD. PLAN A20D, DETAIL 38. OR AS DIRECTED BY THE ENGINEER.
- 6 CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D, DETAIL 38B. OR AS DIRECTED BY THE ENGINEER.
- (7) CONTRACTOR TO INSTALL THERMOPLASTIC 6" WHITE RETROREFLECTIVE BICYCLE LANE
- STRIPING PER CALTRANS STD. PLAN A20D, DETAIL 39. OR AS DIRECTED BY THE ENGINEER. (8) CONTRACTOR TO INSTALL THERMOPLASTIC 6" WHITE RETROREFLECTIVE DASHED BICYCLE LANE STRIPING PER CALTRANS STD. PLAN A20D, DETAIL 39A. OR AS DIRECTED BY THE
- ENGINEER. APPLY GREEN THERMOPLASTIC INSIDE DASHES. (9) CONTRACTOR TO INSTALL THERMOPLASTIC 6" WHITE RETROREFLECTIVE BIKE BUFFER
- CHANNELIZING LINE STRIPING PER CALTRANS STD PLAN A20D, DETAIL 39, OR AS DIRECTED
- (10) CONTRACTOR TO INSTALL THERMOPLASTIC 6" WHITE RETROREFLECTIVE 45-DEGREE DIAGONAL LINES AT 30' SPACING.
- (11) CONTRACTOR TO INSTALL THERMOPLASTIC 6" WHITE RETROREFLECTIVE RIGHT EDGE LINE STRIPING PER CALTRANS STD. PLAN A20B. DETAIL 27B. OR AS DIRECTED BY THE ENGINEER.
- (12) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE "STOP" PAVEMENT MARKINGS PER CALTRANS STD. PLAN A24D OR AS DIRECTED BY THE ENGINEER.
- (13) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE "AHEAD" PAVEMENT
- MARKINGS PER CALTRANS STD. PLAN A24D OR AS DIRECTED BY THE ENGINEER. (14) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE "TYPE IV (L) ARROW"
- PAVEMENT MARKINGS PER CALTRANS STD. PLAN A24A OR AS DIRECTED BY THE ENGINEER.
- (15) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE "BIKE LANE" MARKINGS PER CALTRANS STD. PLAN A24A AND A24C, OR AS DIRECTED BY THE ENGINEER. APPLY GREEN THERMOPLASTIC WITHIN LIMITS OF PAVEMENT MARKING.
- (16) CONTRACTOR TO INSTALL 3 COATS OF 4" THERMOPLASTIC WHITE RETROREFLECTIVE RUMBLE
- STRIPS (NON-SLIP TYPE) PER DETAIL "A" ON SHEET 7 OR AS DIRECTED BY THE ENGINEER. (17) CONTRACTOR TO INSTALL THERMOPLASTIC WHITE RETROREFLECTIVE SLOPE ARROW
- PAVEMENT MARKINGS PER DETAIL "B" ON SHEET 7 OR AS DIRECTED BY THE ENGINEER.
- (18) FURNISH AND INSTALL SIGN (AS NOTED) ON SINGLE POST.
- (19) FURNISH AND INSTALL SIGN ON POLE OR MAST ARM (STRAP AND SADDLE METHOD), AS NOTED, PER STANDARD PLANS RS4.
- (20) PAINT CURB RADII YELLOW.
- (21) FURNISH AND INSTALL STAMPED ASPHALT TREATMENT. STAMPED ASPHALT SHALL BE STREETBOND STREETPRINT TEMPLATE: RANDOM COBBLE. SEE DETAIL A ON THIS SHEET. THE COLOR SHALL BE STREETBOND LEED SR PAPRIKA (SR: 0.36). SEE DETAIL B ON THIS SHEET

ROADWAY CONSTRUCTION NOTES:

1 PROTECT IN PLACE (ITEM NOTED ON PLAN).

2 ADJUST TO GRADE (ITEM NOTED ON PLAN).

3 CONSTRUCT CURB RAMP PER CITY OF CLAREMONT STANDARD DWG NO. 1007A.

4 CONSTRUCT DETECTABLE WARNING SURFACE PER CITY OF CLAREMONT STANDARD DWG NO. 1007D.

5 CONSTRUCT CASE F CURB RAMP PER CALTRANS STANDARD PLAN NO. A88A.

6 CONSTRUCT TYPE A1 CURB PER CITY OF CLAREMONT STANDARD DWG NO. 1052.

7 CONSTRUCT SIDEWALK PER CITY OF CLAREMONT STANDARD DWG NO. 1008.

INSTALL 6" ADS N-12® DUAL WALL HDPE OR APPROVED EQUAL. SEE SECTION A-A. CONFIRM UTILITIES CROSSING OVER THE DRAINAGE PIPE & TRENCH AND SUPPORT EACH USING APWA STANDARD PLAN NO 224-3 CASE 1

CONSTRUCT DRIVEWAY APPROACH PER CITY OF CLAREMONT STANDARD DWG NO. 1011. DRIVEWAY GUTTER/PAD CONSTRUCTED AS SHOWN ON PLANS.

10 CONSTRUCT RAISED INTERSECTION

11 SAWCUT, REMOVE, & JOIN EXISTING SIDEWALK

12 SAWCUT, REMOVE, & JOIN EXISTING AC PAVEMENT.

13 REMOVE & DISPOSE OF EXISTING CURB & GUTTER.

14 COLD MILL 2" AC PAVEMENT

15 CONSTRUCT 5" HMA PAVEMENT.

16 CONSTRUCT STAMPED ASPHALT.

INSTALL INLINE DRAIN INLET WITH 2'X2' ROAD & HIGHWAY (H-20 TRAFFIC LOAD) ASPHALT INSTALLATION DETAIL PER ADS NYOPLAST DWG. NO. 7001-110-188 OR APPROVED EQUAL.

CITY OF CLAREMONT

GERNERAL NOTES

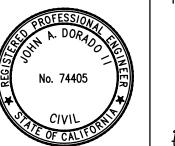
MILLS AVENUE BETWEEN MORENO STREET AND ARROW HIGHWAY

SCALE	NA	DRAWN BY	NP	DRAWING NUMBER
DATE	10/02/2025	CHECKED	JD	R02-2504
F.B. NO.		RECOMMENDE	D	
APPROVE	SD .			SHEET O

DATE



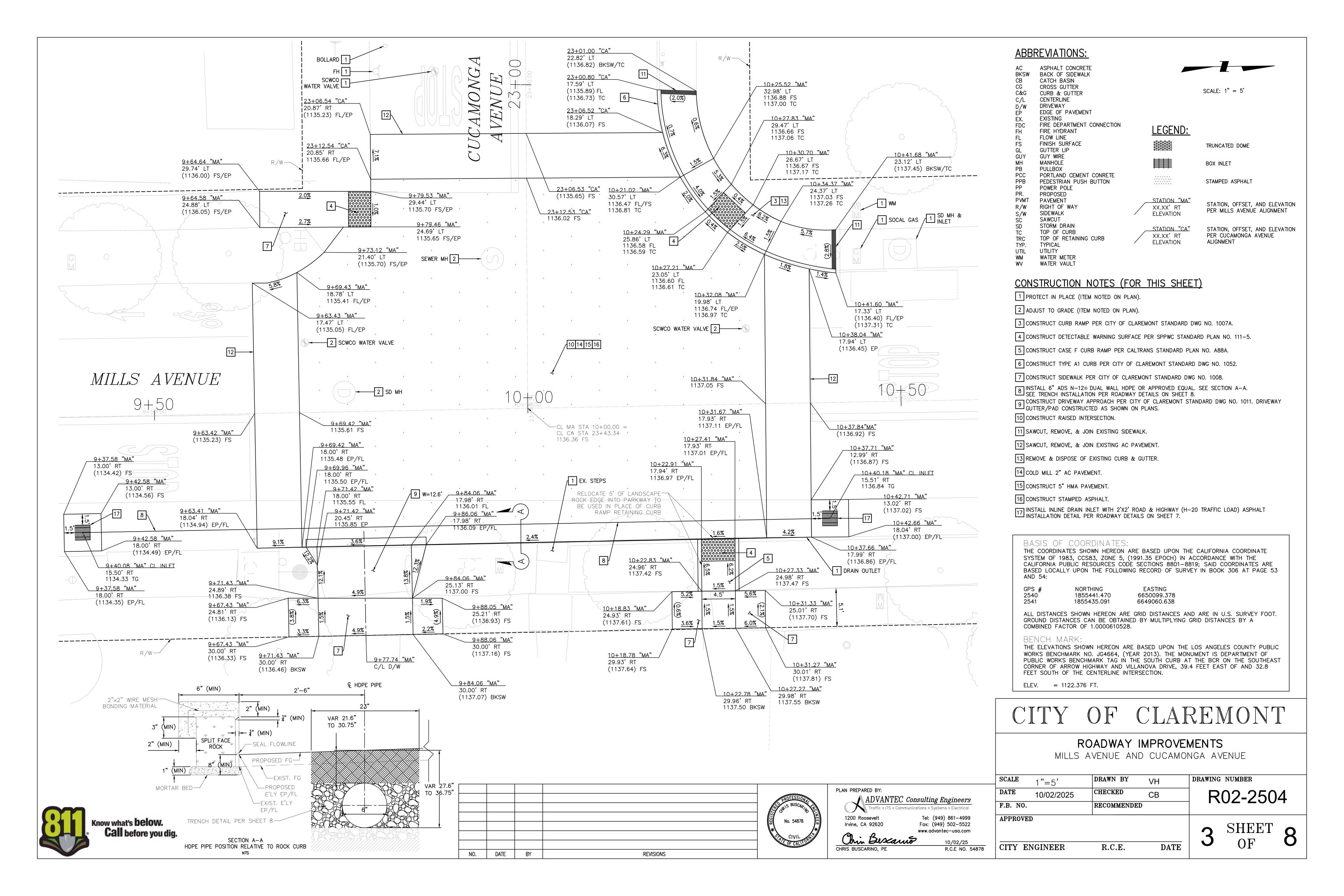
DATE REVISIONS BY

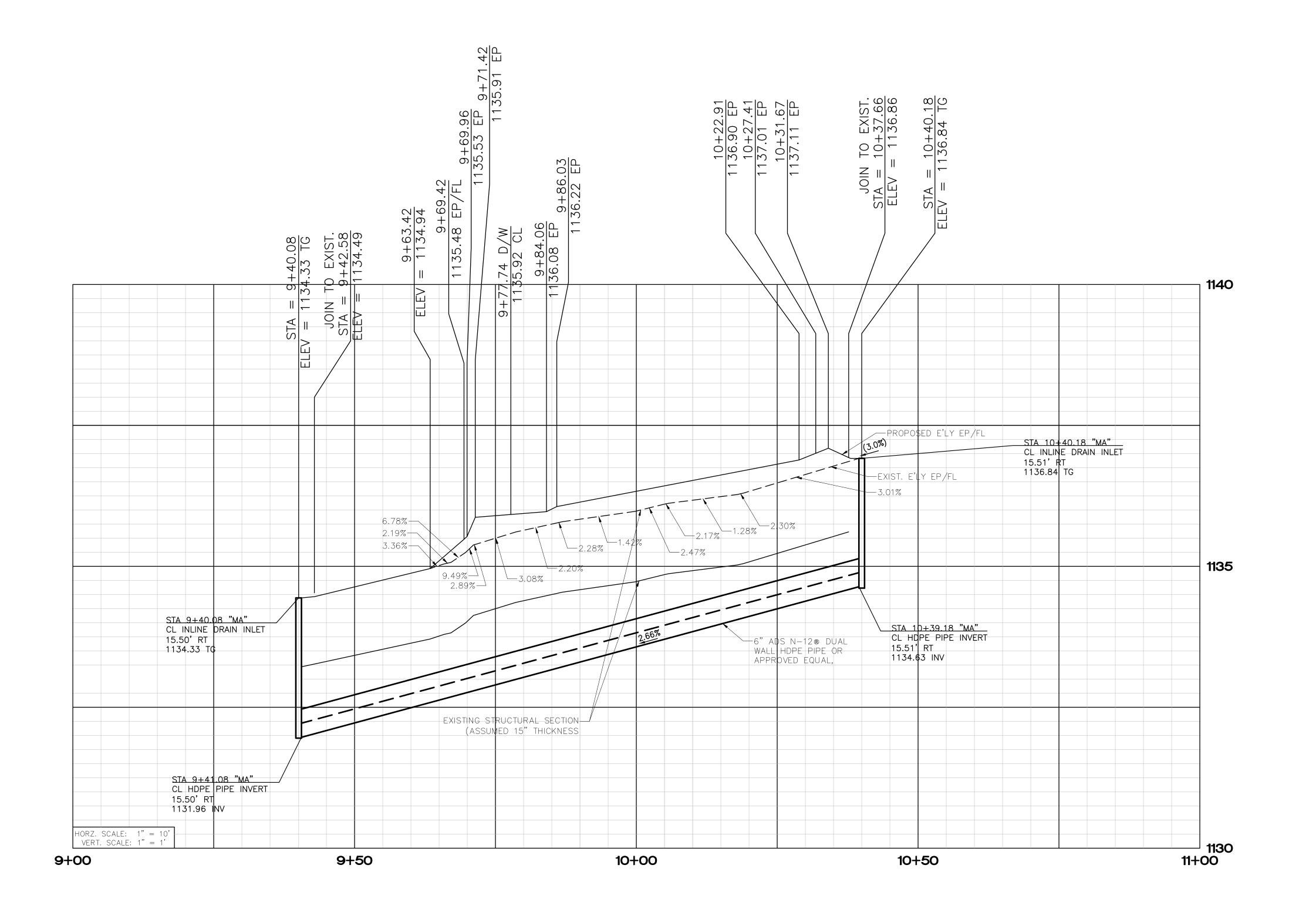




10/02/25 R.C.E NO. 74405

CITY ENGINEER R.C.E.





NOTES:

ASSUME PAVEMENT DEPTH WILL BE 3" AC/EXISTING 6" AC/6" BASE = 15" STRUCTURAL SECTION

CONFIRM UTILITIES CORSSING OVER THE DRAINAGE PIPE & TRENCH AND SUPPORT EACH USING APWA
STANDARD PLAN NO 224-3 CASE 1.

BASIS OF COORDINATES:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (1991.35 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON THE FOLLOWING RECORD OF SURVEY IN BOOK 306 AT PAGE 53 AND 54:

GPS # 2540 NORTHING 1855441.470 1855435.091

EASTING 6650099.378 6649060.638

ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND ARE IN U.S. SURVEY FOOT. GROUND DISTANCES CAN BE OBTAINED BY MULTIPLYING GRID DISTANCES BY A COMBINED FACTOR OF 1.0000610528.

BENCH MARK:

THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE LOS ANGELES COUNTY PUBLIC WORKS BENCHMARK NO. JG4664, (YEAR 2013). THE MONUMENT IS DEPARTMENT OF PUBLIC WORKS BENCHMARK TAG IN THE SOUTH CURB AT THE BCR ON THE SOUTHEAST CORNER OF ARROW HIGHWAY AND VILLANOVA DRIVE, 39.4 FEET EAST OF AND 32.8 FEET SOUTH OF THE CENTERLINE INTERSECTION.

ELEV. = 1122.376 FT.

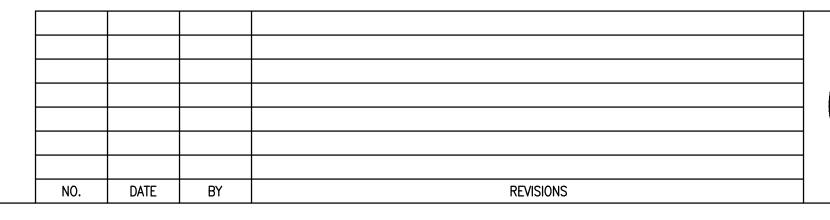
CITY OF CLAREMONT

ROADWAY IMPROVEMENTS

MILLS AVENUE AND CUCAMONGA AVENUE

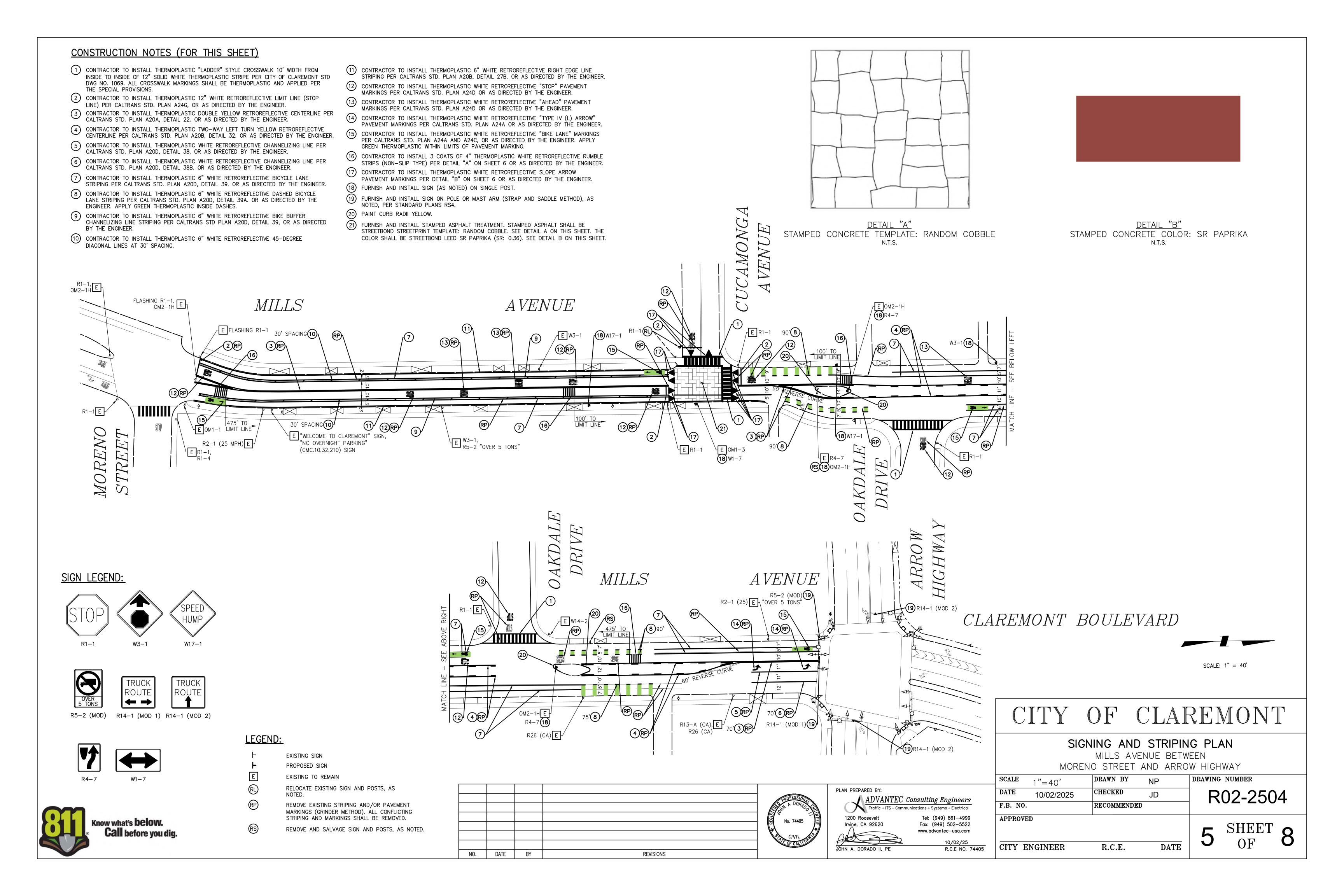
SCALE NTS	DRAWN BY	VH	DRAWING	NUMBER	
DATE 10/02/2025	CHECKED	СВ	R	02-250	4
F.B. NO.	RECOMMENDED			<i>52 255</i>	•
APPROVED			4	SHEET	8
CITY ENGINEER	R.C.E.	DATE		\mathbf{OF}	

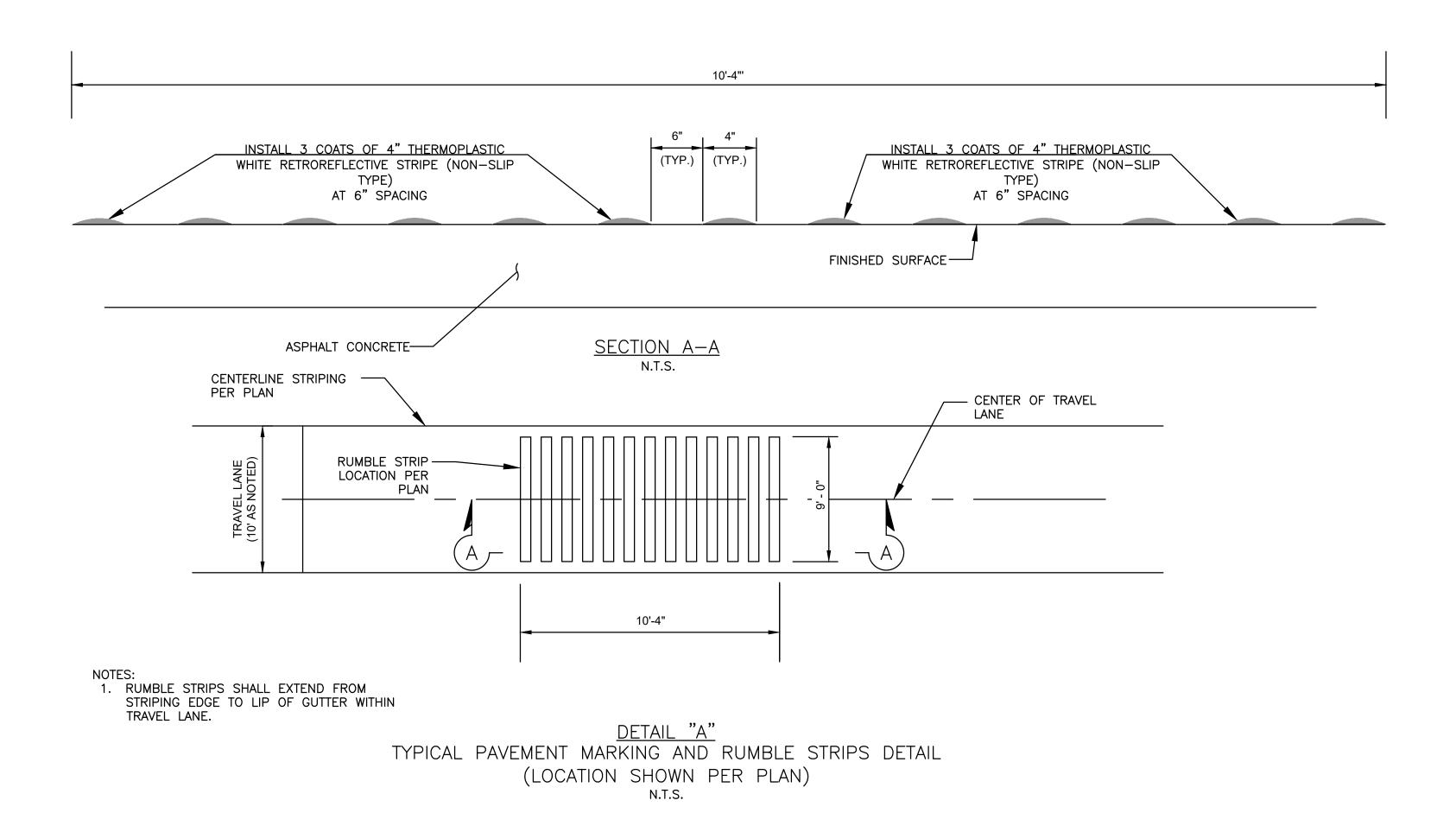


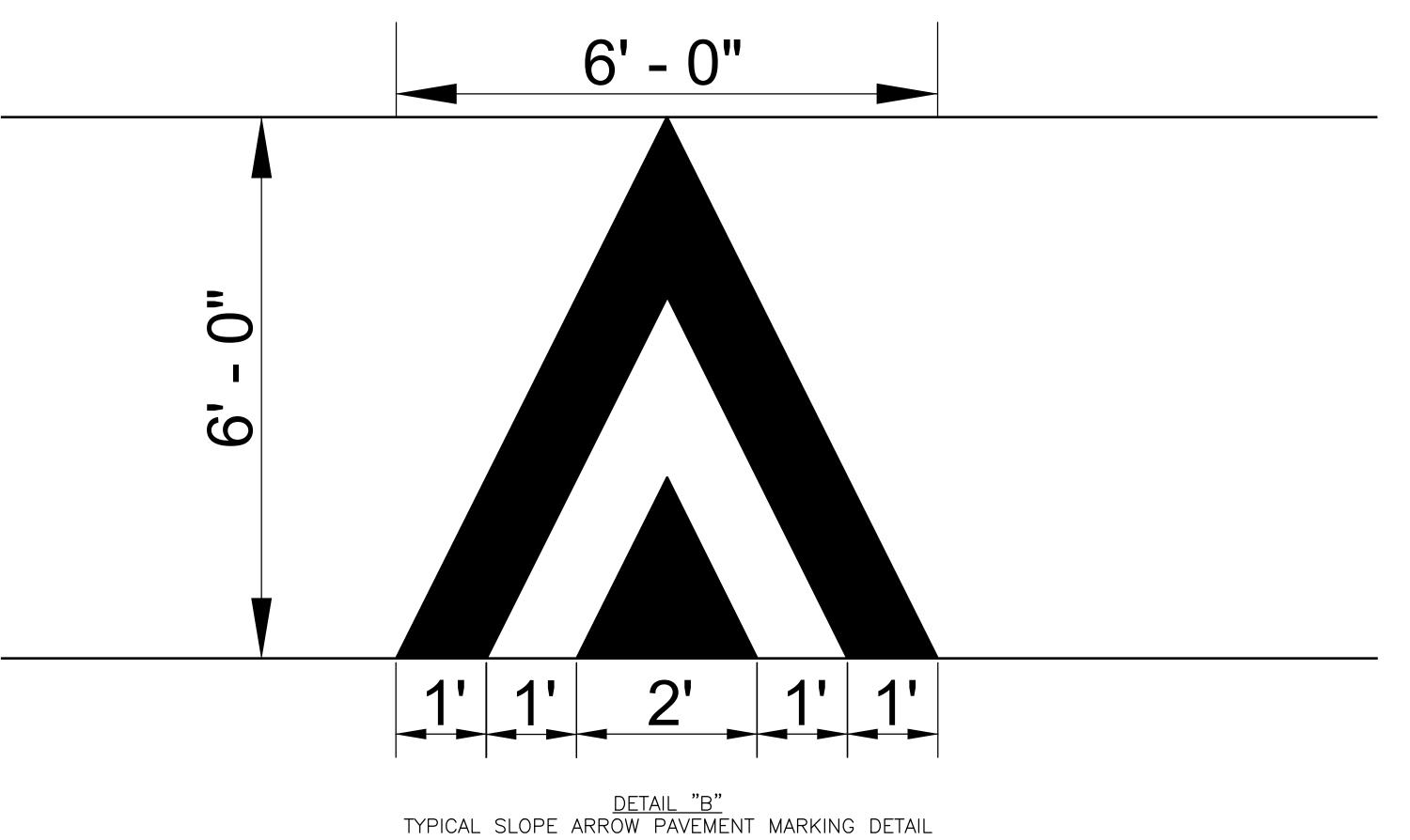












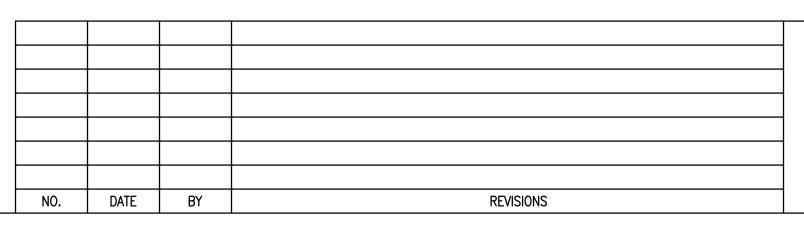
(LOCATION SHOWN PER PLAN)

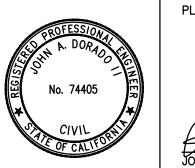
CITY OF CLAREMONT

SIGNING AND STRIPING DETAILS

MILLS AVENUE BETWEEN MORENO STREET AND ARROW HIGHWAY

SCALE	NA	DRAWN BI	NP	DRAWING	NUMBER	
DATE 1	10/02/2025	CHECKED	JD	R	02-250	4
F.B. NO.		RECOMMENDED				
APPROVED				_	CHEET	
				6	SHEET	8
CITY ENG	GINEER	R.C.E.	DATE	O	OF	

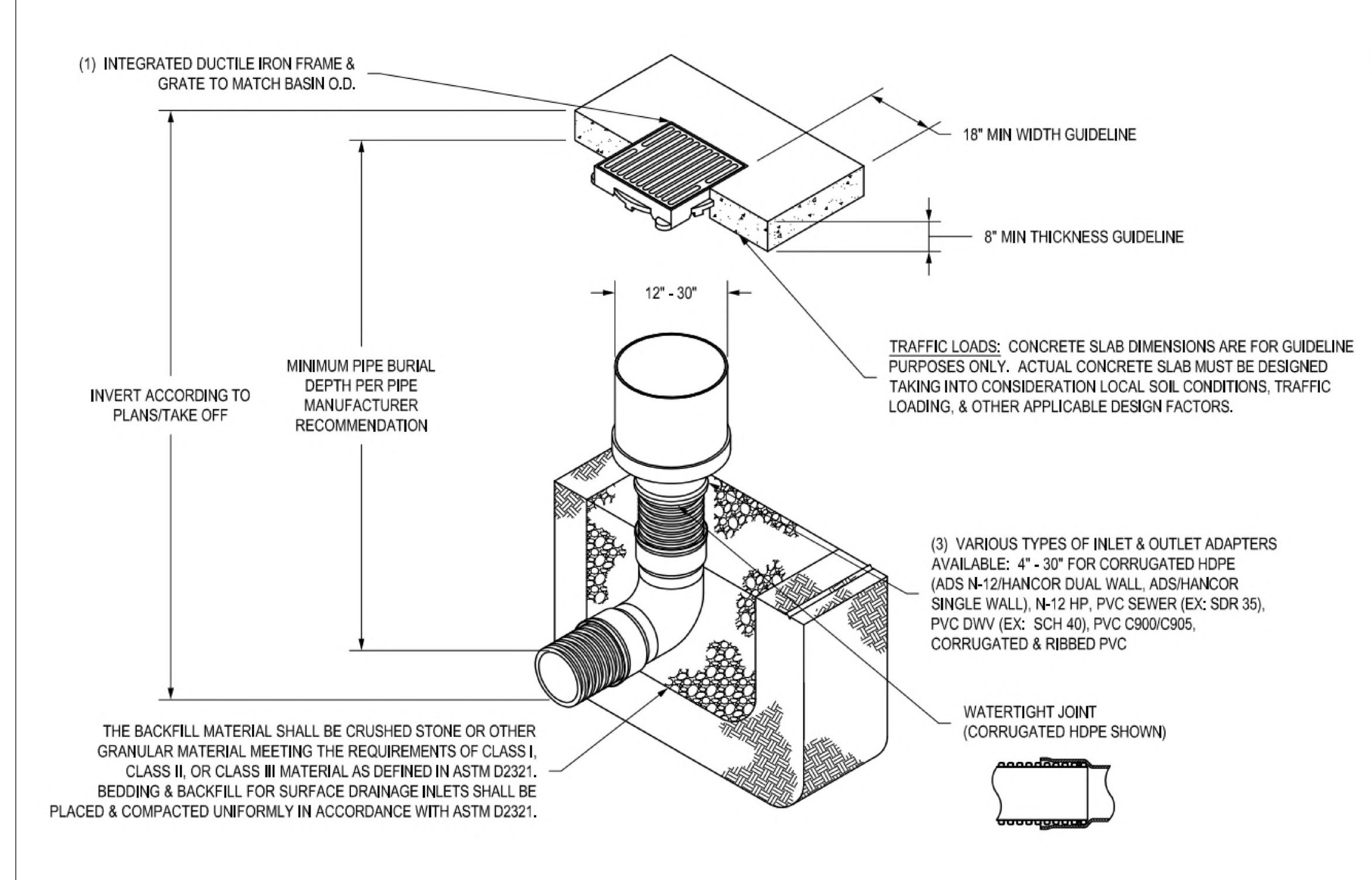




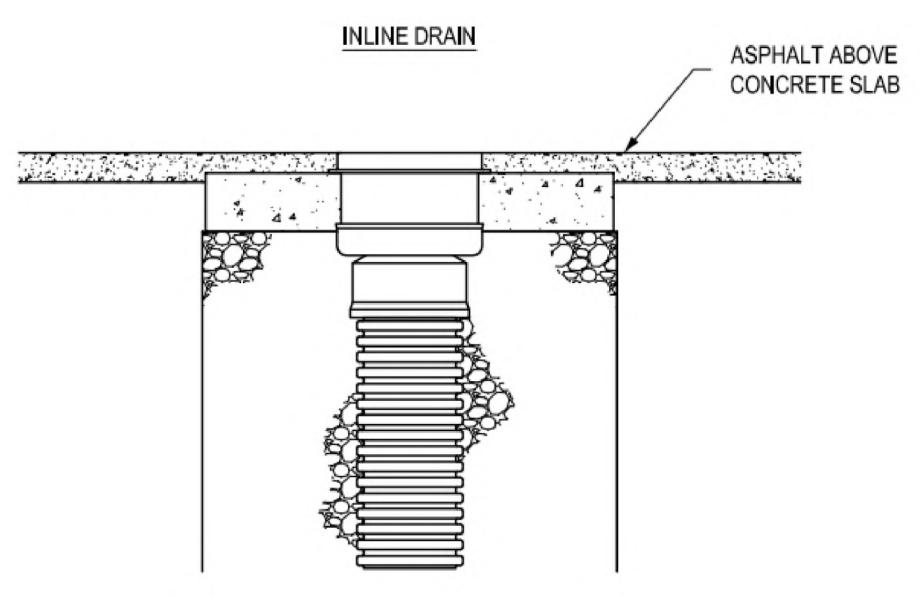




NYLOPLAST INLINE DRAIN WITH 2 FT X 2 FT ROAD & HIGHWAY FRAME & GRATE



ASPHALT INSTALLATION



NOTES:

INSTALL INLINE DRAIN INLET WITH 2'X2' ROAD & HIGHWAY (H-20 TRAFFIC LOAD) ASPHALTINSTALLATION DETAIL PER ADS NYOPLAST DWG. NO. 7001-110-036 & 7001-110-188 OR APPROVED EQUAL.

> BASIS OF COORDINATES: THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (1991.35 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON THE FOLLOWING RECORD OF SURVEY IN BOOK 306 AT PAGE 53

6650099.378 1855441.470 1855435.091 6649060.638

ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND ARE IN U.S. SURVEY FOOT. GROUND DISTANCES CAN BE OBTAINED BY MULTIPLYING GRID DISTANCES BY A COMBINED FACTOR OF 1.0000610528.

BENCH MARK:

THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE LOS ANGELES COUNTY PUBLIC WORKS BENCHMARK NO. JG4664, (YEAR 2013). THE MONUMENT IS DEPARTMENT OF PUBLIC WORKS BENCHMARK TAG IN THE SOUTH CURB AT THE BCR ON THE SOUTHEAST CORNER OF ARROW HIGHWAY AND VILLANOVA DRIVE, 39.4 FEET EAST OF AND 32.8 FEET SOUTH OF THE CENTERLINE INTERSECTION.

ELEV. = 1122.376 FT.

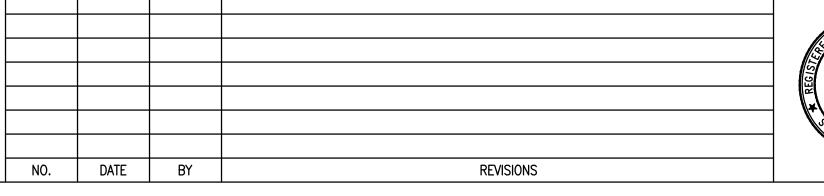
CITY OF CLAREMONT

ROADWAY DETAILS

DRAIN BASIN, INLINE DRAIN, & ROAD ASPHALT INSTALLATION DETAIL

SCALE	NA	DRAWN BY	VH	DRAWING NUMBER
DATE	10/02/2025	CHECKED	СВ	R02-2504
F.B. NO.		RECOMMENDED		
APPROVE	D	•		CHEED





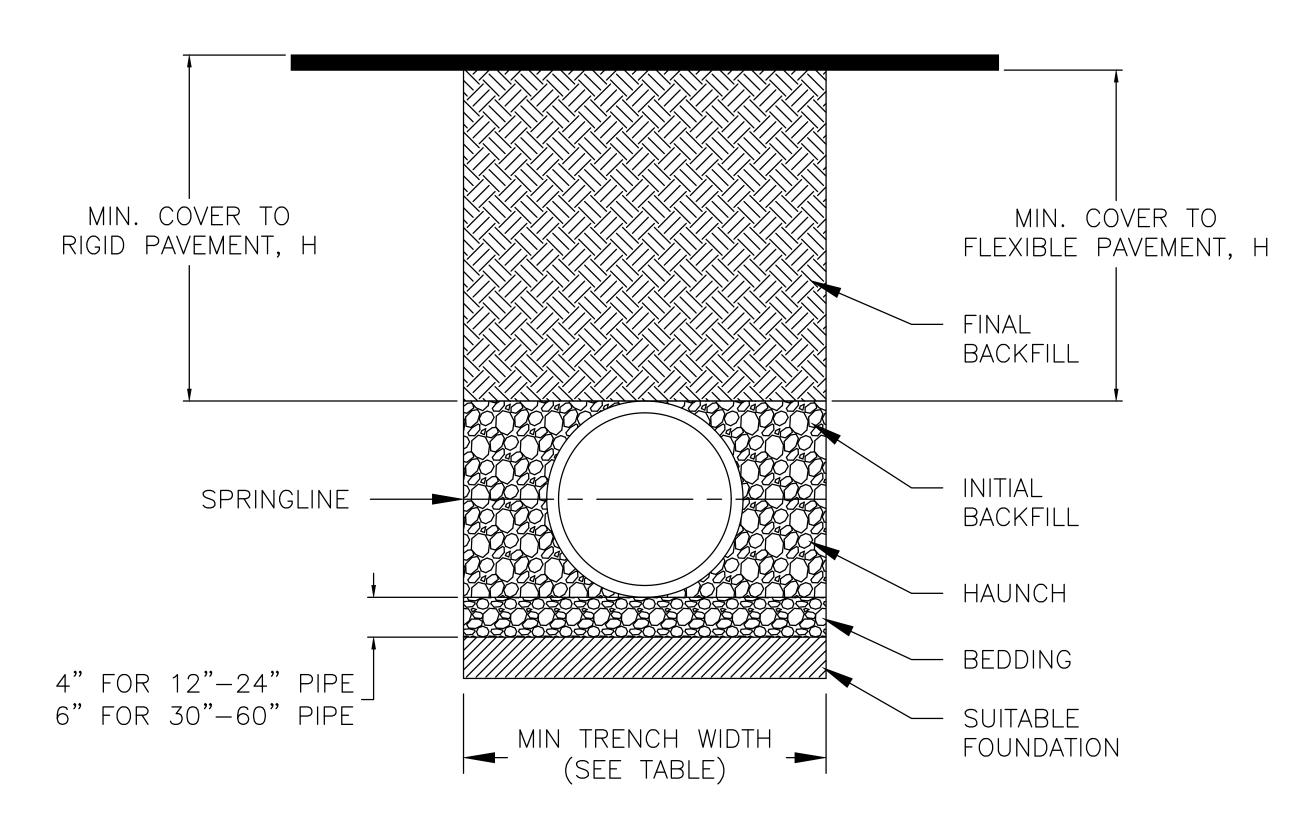




R.C.E NO. 54878

CITY ENGINEER

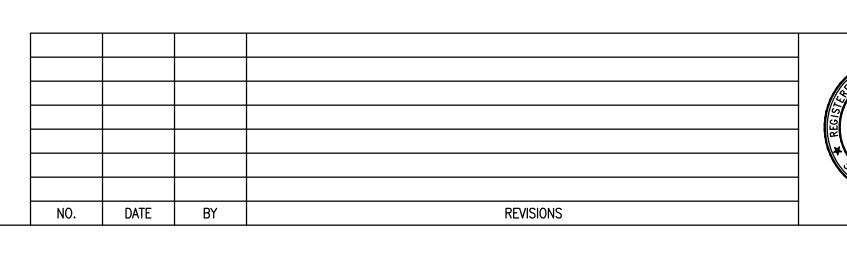
SHEET 8 R.C.E.

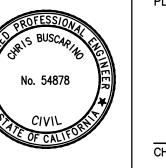


NOTES:

- 1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDER-GROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- 3. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 4. <u>BEDDING:</u> SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" DIAMETER PIPE (300mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
- 5. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED.
- 6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD IS REQUIRED. MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
- 7. CROSSING UTILITIES SUPPORT: UTILITIES CROSSING OVER THE DRAINAGE PIPE & TRENCH AND SUPPORT EACH PER APWA STANDARD PLAN NO. 224-3 CASE 1.









R.C.E NO. 54878

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE	DIAM.	MIN.	TRENCH	WIDTH
(100	1")mm)		21" (533mm)
(150	3")mm)		23" (584mm)
(200	3")mm)		26" (660mm)

MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITION

	CLASS I	CLASS II		CLASS III
PIPE DIAM.	COMPACTED	95%	90%	95%
4"	37	25	18	18
(100mm)	(11.3m)	(7.6m)	(5.5m)	(5.5m)
6"	44	29	20	21
(150mm)	(13.4m)	(8.8m)	(6.1m)	(6.4m)
8"	32	22	15	16
(200mm)	(9.8m)	(6.7m)	(4.6m)	(4.9m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:

NO HYDROSTATIC PRESSURE, UNIT WEIGHT OF SOIL (ys) = 120 PCF

BASIS OF COORDINATES:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (1991.35 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801—8819; SAID COORDINATES ARE BASED LOCALLY UPON THE FOLLOWING RECORD OF SURVEY IN BOOK 306 AT PAGE 53 AND 54:

GPS # NORTHING EASTING 2540 1855441.470 6650099.378 2541 1855435.091 6649060.638

ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND ARE IN U.S. SURVEY FOOT. GROUND DISTANCES CAN BE OBTAINED BY MULTIPLYING GRID DISTANCES BY A COMBINED FACTOR OF 1.0000610528.

BENCH MARK:

THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE LOS ANGELES COUNTY PUBLIC WORKS BENCHMARK NO. JG4664, (YEAR 2013). THE MONUMENT IS DEPARTMENT OF PUBLIC WORKS BENCHMARK TAG IN THE SOUTH CURB AT THE BCR ON THE SOUTHEAST CORNER OF ARROW HIGHWAY AND VILLANOVA DRIVE, 39.4 FEET EAST OF AND 32.8 FEET SOUTH OF THE CENTERLINE INTERSECTION.

ELEV. = 1122.376 FT.

CITY OF CLAREMONT

ROADWAY DETAILS TRENCH INSTALLATION DETAIL

SCALE	NA	DRAWN BY	VH	DRAWING NUMBER
DATE	10/02/2025	CHECKED	СВ	R02-2504
F.B. NO	•	RECOMMENDE	D	
APPROV	ED			

CITY ENGINEER R.C.E. DATE 8 SHEET OF