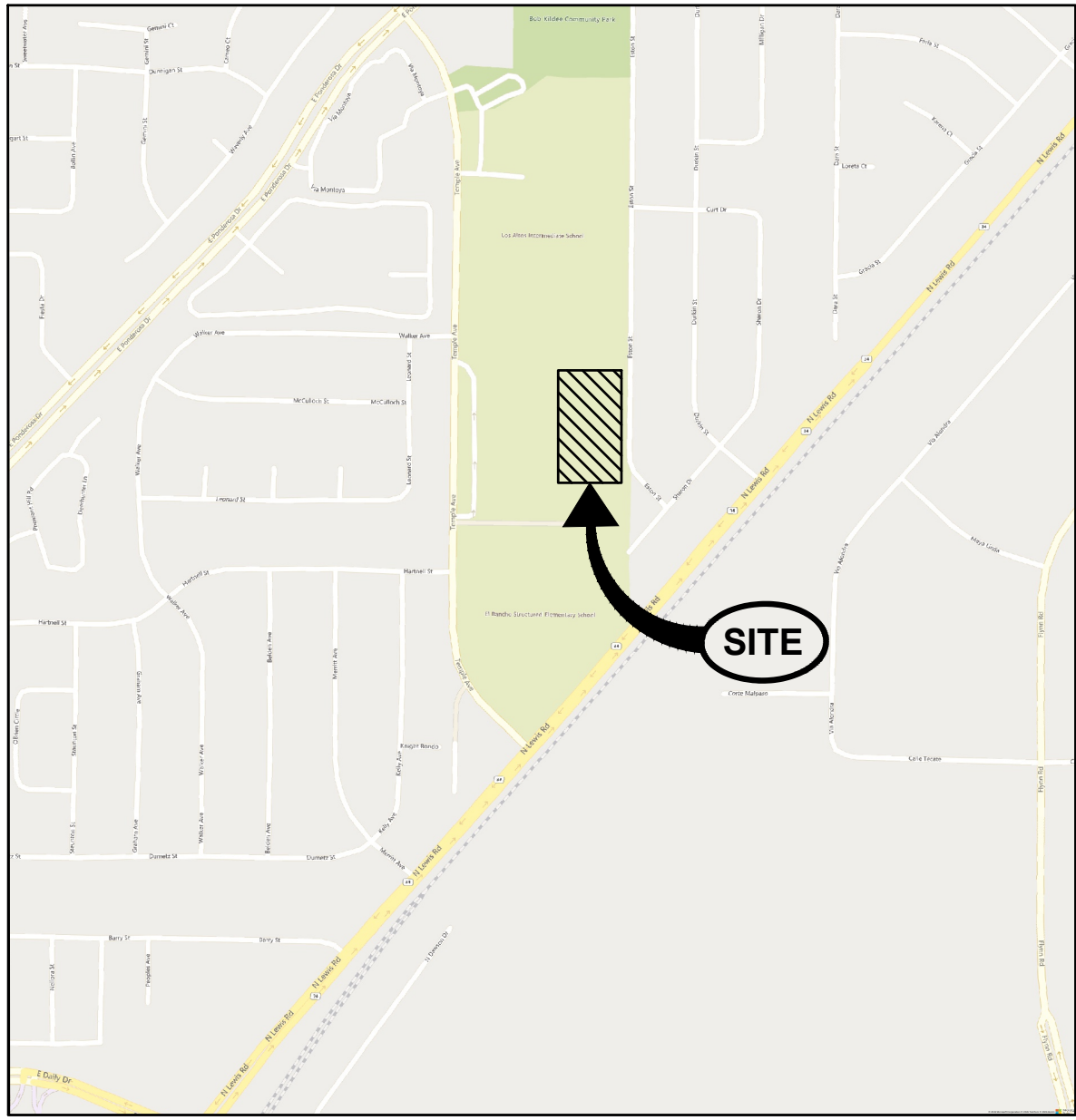


PLEASANT VALLEY SCHOOL DISTRICT MAIN PLAYGROUND IMPROVEMENT PLANS PLEASANT VALLEY SCHOOL OF ENGINEERING AND ARTS 550 TEMPLE AVE. CAMARILLO, CA 93010

LEGEND:	EXISTING	PROPOSED
DESCRIPTION		
CENTERLINE		
EDGE OF A.C. PAVEMENT		
ELEVATION	100.00 OR 100.00	100.00
CONCRETE PAVEMENT		
A.C. PAVEMENT		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
CONTOURS (MAJOR)	10	10
CONTOURS (MINOR)	12	12
BENCH MARK		
TREE CANOPY		
APPROX. SAW CUT LINE		
LIMIT OF GRADING LINE		
GRADE BREAK LINE		
FLOW LINE		
FENCE		
WATER		
STORM DRAIN		



VICINITY MAP
NOT TO SCALE

BENCHMARK:

ELEVATIONS ARE NAVD83 BASED ON BENCHMARK VCPID 406, DESIGNATION 25-304, RM 2 DISC 57 3 SOUTH AND 41.5 WEST FROM CENTERLINE INTERSECTION PONDEROSA DR. & ARNELL RD. ON HEADWALL.

ELEVATION = 154.33'

CAUTION! CONFIRM BENCHMARK DATA AND CONDITION WITH PROJECT SURVEYOR (RIGHT ANGLE LAND SURVEY) PRIOR TO USE.

TOPOGRAPHY:

EXISTING TOPOGRAPHY COMPILED BY FIELD SURVEY(S) BY RIGHT ANGLE LAND SURVEY DATED 01/23/2020.

BASIS OF BEARING:

HORIZONTAL DATUM IS NAD83 (SPC 405).

SURVEY MONUMENT PROTECTION:

PROTECT AND PRESERVE, IN PLACE, ALL SURVEY MONUMENTS AND BENCHMARKS. DO NOT DISTURB, MOVE, OR RELOCATE MONUMENTS OR BENCHMARKS WITHOUT THE PRIOR REVIEW AND APPROVAL BY THE AGENCY HAVING JURISDICTION OVER THE MONUMENT OR BENCHMARK. THE CONTRACTOR SHALL CONTRACT WITH A LICENSED SURVEYOR FOR MONUMENTS REQUIRING DISTURBANCE OR REMOVAL, AND THE SURVEYOR SHALL RESET THE MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONAL CODE SECTION 8771.

LIST OF SYMBOLS:

AC	ASPHALTIC CONCRETE	MJ	MECHANICAL JOINT
ACP	ASBESTOS CEMENT PIPE	NIC	NOT INCLUDED IN CONTRACT
AB	AGGREGATE BASE	OC	ON CENTER
BC	BEGIN CURVE	OCEW	ON CENTER EACH WAY
BCR	BEGIN CURB RETURN	PCC	POINT OF COMPOUND
BD	BASEMENT DRAIN	PCV	CURVATURE
BFV	BUTTERFLY VALVE	PI	POINT OF INTERSECTION
BM	BENCHMARK	RD	OF CURVE TANGENTS)
BV	BALL VALVE	R	PROPERTY LINE
BVC	BEGIN VERTICAL CURVE	PRC	POINT OF REVERSE CURVATURE
BW	BACK OF WALK	PVC	POLY(VINYL CHLORIDE
CJ	CAST IRON PIPE	PV	PLUG VALVE
CL	CRACK CONTROL JOINT	R	RADIUS
CL	CLASS	RC	REINFORCED CONCRETE PIPE
CL	CENTERLINE	RD	OF CURVE TANGENTS)
CMP	CORRUGATED METAL PIPE	RG	RETAINING GLAND
CLR	CLEAR	RSJ	ROUGH SURFACE JOINT
CMU	CONCRETE MASONRY UNIT	RW	RIGHT-OF-WAY
CO	CLEANOUT	S	SEWER
CTV	CABLE TELEVISION	SD	STORM DRAIN
DIP	DUCTILE IRON PIPE	SL	STREET LIGHT
D	DRAIN	STL	STAINLESS STEEL
E	ELECTRICAL	STA	STATION
DI	DROP INLET	STD	STANDARD DETAIL
END	END CURVE	T	TELEPHONE
END	END CURB RETURN	T B	THRUST BLOCK
EG	EXISTING GRADE	TS	TOP OF BERM
EJ	EXPANSION JOINT	TC	TOP OF CURB
EL	ELEVATION	TCN	TOP OF CONCRETE
EP	EDGE OF PAVEMENT	TD	TOP OF DIRT
EVC	END VERTICAL CURVE	TF	TOP OF FOOTING
EW	EACH WAY	TG	TOP OF GRATE
EX	EXISTING	TI	TRAFFIC INDEX
FD	FLOOR DRAIN	TL	TRAFFIC LIGHT
FF	FINISH FLOOR	TP	TOP OF PAVEMENT
FG	FINISH GRADE	TYP	TYPICAL
FH	FIRE HYDRANT	TW	TOP OF WALL
FL	FLOWLINE	VCP	VITRIFIED CLAY PIPE
FLG	FLANGE	VPI	VERTICAL POINT OF
FS	FINISH SURFACE	INT	INTERSECTION
G	GAS		OF VERTICAL CURVE
GB	GRADE BREAK	TANGENTS)	
GM	GAS METER	W	WATER
GSP	GALVANIZED STEEL PIPE	W/	WITH
GSV	GAS VALVE	WD	WALL DRAIN
GV	GATE VALVE	WM	WATER METER
HB	HOSE BIB	WV	WATER VALVE
HP	HIGH POINT	Δ	DELTA (CURVE CENTRAL ANGLE)
INV	INVERT	±	APPROXIMATELY
L	LENGTH	%	PERCENT
LINE	LINEAL FEET	<	LESS THAN
MH	MANHOLE	>	GREATER THAN

GRADING AND PAVING SPECIFICATIONS:

A. STANDARD SPECIFICATIONS:

1. EXCEPT AS MODIFIED OR OTHERWISE SPECIFIED ON THE DRAWINGS OR HEREIN, CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), LATEST EDITION, PUBLISHED BY BUILDING NEWS, INC.

B. GEOTECHNICAL ENGINEER:

1. A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT BY GEOTECHNIQUES DATED JAN. 26, 2026 (REV. 2/16/26).

C. LICENSED LAND SURVEYOR:

1. A LICENSED SURVEYOR SHALL LAY OUT THE WORK, SET GRADE STAKES, CHECK FORMS AND CHECK SURFACE OF PAVEMENT BASE COURSES.

D. EARTHWORK QUANTITIES:

1. CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK QUANTITY ANALYSIS ON WHICH TO BASE HIS BID. CONTRACTOR SHALL NOT BE RELIEVED OF LIABILITY UNDER THE CONTRACT FOR ANY LOSS HE MAY SUSTAIN AS A RESULT OF ANY VARIANCE BETWEEN HIS EARTHWORK ESTIMATES AND THE ACTUAL EARTHWORK QUANTITIES REQUIRED TO ACCOMPLISH GRADING AS SPECIFIED HEREIN AND AS NECESSARY FOR CONSTRUCTION OF IMPROVEMENTS TO THE FINISH GRADES OR PAVEMENT SUBGRADES CALLED FOR ON THE DRAWINGS.

E. DUST CONTROL:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF DUST DURING THE ENTIRE CONSTRUCTION PERIOD AND FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONTRACTOR'S OPERATIONS.

2. EMPLOY LABOR, EQUIPMENT AND METHODS REQUIRED TO PREVENT CONSTRUCTION OPERATIONS FROM PRODUCING DUST DAMAGING TO PERSONS, PROPERTY, VEGETATION AND ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING SITES IN THE VICINITY OF THE JOB SITE. CONTINUE DUST ABATEMENT MEASURES UNTIL AUTHORIZED BY THE OWNER'S REPRESENTATIVE TO DISCONTINUE THEM.

3. DURING TIMES OF EARTH DISTURBANCE OR MOVEMENT, MONITOR THE AMOUNT OF DUST RAISED BY THE ACTIVITY AND WATER THE AREAS BEING DISTURBED AS NEEDED TO PREVENT DUST FROM LEAVING THE PROJECT SITE.

4. ENSURE THAT TRUCKS TRANSPORTING MATERIAL FROM THE SITE ARE TARPED BEFORE LEAVING THE SITE WITH TARPS SUFFICIENTLY SECURE TO REMAIN TARPED TO THE POINT OF DISPOSAL.

5. COVER STOCKPILED SOIL MATERIALS AS REQUIRED TO PREVENT WIND-BLOWN DUST.

F. EROSION AND SEDIMENTATION CONTROL:

1. PROVIDE STORM WATER POLLUTION PREVENTION MATERIALS AND METHODS IN ACCORDANCE WITH THE CONSTRUCTION BMP ONLINE HANDBOOK, JANUARY 2015 EDITION, AVAILABLE ONLINE FROM THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF EROSION AND SEDIMENT TRANSPORT DURING THE ENTIRE CONSTRUCTION PERIOD AND FOR ANY DAMAGE CAUSED BY EROSION OR SEDIMENT TRANSPORT RESULTING FROM CONTRACTOR'S OPERATIONS.

G. CLEARING AND GRUBBING:

1. PRIOR TO COMMENCING GRADING OR TRENCING OPERATIONS, CLEAR THE EXISTING GROUND SURFACE OF AREAS TO BE GRADED OR TRENCED OF ALL VEGETATION (EXCEPT TREES INDICATED ON THE DRAWINGS TO REMAIN), WHETHER LIVING OR DEAD, INCLUDING ROOTS AND ROOT STRUCTURES, AS WELL AS ALL TRASH AND DEBRIS, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.

2. PRIOR TO COMMENCING GRADING OR TRENCING OPERATIONS, EXCAVATE AND REMOVE FROM AREAS TO BE GRADED OR TRENCED ALL EXISTING UNDOCUMENTED OR NON-COMPLYING FILL AND SOIL CONTAINING DEBRIS, ORGANICS, PAVEMENT AND OTHER UNSUITABLE MATERIAL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

3. IF, DURING THE REMOVAL AND SCARIFICATION PROCESS, EXCESSIVE ROOT STRUCTURES ARE ENCOUNTERED, THESE AREAS SHALL BE DEEP RIPPED IN TWO DIRECTIONS TO THE DEPTH OF THE ROOT STRUCTURE AFTER WHICH THE DISTURBED SOILS AND THE ROOTS SHALL BE COMPLETELY REMOVED AND THE RESULTING CAVITIES SHALL BE SCARIFIED AND PROCESSED TO RECEIVE FILL IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

4. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THIS PROJECT INCLUDING THOSE LISTED BELOW.

PREPARED BY: GEOTECHNIQUES FILE NO. 1025.010 DATE: JANUARY 26, 2026 (REV. 2/16/26)

THESE REPORTS AND ANY ADDENDUM SHALL BE INCORPORATED INTO THESE PLANS AND MADE A PART HEREOF AS IF SET FORTH IN THEIR ENTIRETY. HEREON, IT IS CONTRACTOR'S RESPONSIBILITY TO REVIEW THE APPLICABLE GEOTECHNICAL AND GEOLOGY REPORTS. CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER TO OBTAIN OR REVIEW COPIES OF THESE REPORTS AND ADDENDUM.

PRIOR TO BIDDING, CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER TO DETERMINE THE LOCATION AND DEPTH OF ALL TEST BORINGS AND EXPLORATORY PITS AND EXCAVATIONS. CONTRACTOR SHALL DETERMINE FROM THE GEOTECHNICAL ENGINEER WHAT REMEDIAL WORK IS RECOMMENDED TO MAKE THESE DISTURBED LOCATIONS SUITABLE FOR THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS FOR THE RECOMMENDED REMEDIAL WORK AND SHALL ADJUST HIS OPERATIONS TO PROPERLY SEQUENCE THE WORK TO ACCOMMODATE REMEDIAL WORK WITH CONSTRUCTION OF PROPOSED IMPROVEMENTS.

H. GRADING:

1. GRADING WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:

• ALL EXCAVATION TO THE GRADES SHOWN ON OR INDICATED BY THE DRAWINGS AND AS SPECIFIED HEREIN.

• ALL EARTH FILL TO THE GRADES SHOWN ON OR INDICATED BY THE DRAWINGS AND AS SPECIFIED HEREIN.

• ALL IMPORT AND EXPORT OF EARTH MATERIAL AS REQUIRED TO ACCOMPLISH THE FINISH GRADES AND PAVEMENT SUBGRADES SHOWN ON OR INDICATED BY THE DRAWINGS AND AS SPECIFIED HEREIN.

• ALL CONDITIONING, PLACEMENT, COMPACTION AND RECOMPACTION OF EARTHWORK.

2. ON-SITE SOILS FREE OF OVERSIZE ROCKS AND IRREDUCIBLE MATERIAL (OVER 3 INCHES IN LARGEST

DIMENSION), TRASH AND DEBRIS, ORGANICS AND DELETERIOUS MATERIALS MAY BE USED AS FILL, SUBJECT TO PRIOR REVIEW AND APPROVAL BY THE GEOTECHNICAL ENGINEER. IF IMPORTED SOIL IS NECESSARY, THE MATERIAL SHALL BE GRANULAR AND NON-EXPANSIVE, EQUAL OR SUPERIOR IN QUALITY TO THE ON-SITE SOILS, AS DETERMINED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTATION OF THE FILL MATERIAL TO THE SITE.

3. BEFORE PLACING ANY FILL MATERIAL, REQUEST REVIEW OF THE EXPOSED IN-PLACE SOILS BY, AND PREPARE THESE SOILS TO RECEIVE FILL AS RECOMMENDED BY, THE GEOTECHNICAL ENGINEER, INCLUDING:

• CORRECTING ANY SOFT, OVERWET OR PUMPING AREAS, AS RECOMMENDED

• OVEREXCAVATING OR SCARIFYING, MOISTURE CONDITIONING, AND RECOMPACTION, AS RECOMMENDED AND AT LEAST THE UPPER 12 INCHES TO AT LEAST 95% OF MAXIMUM DENSITY.

4. PLACE FILL MATERIAL IN LAYERS THAT CAN BE COMPACTED WITH THE EQUIPMENT BEING USED AND AS REQUIRED BY THE GEOTECHNICAL ENGINEER BUT NOT MORE THAN 6 INCHES IN LOOSE THICKNESS. AFTER EACH LAYER HAS BEEN CONDITIONED AND PLACED, COMPACT THE MATERIAL TO THE FOLLOWING DENSITIES:

• STRUCTURAL FILL NOT OTHERWISE SPECIFIED: MINIMUM 90% OF MAXIMUM DENSITY

• UPPER 12" OF AREAS TO RECEIVE LANDSCAPING BUT NO OTHER SURFACE IMPROVEMENTS: 85% OF MAXIMUM DENSITY

• BASE COURSE AND UPPER 12" OF SUBGRADE SOIL BENEATH BASE COURSE IN PAVEMENT AND WALKWAY AREAS: MINIMUM 95% OF MAXIMUM DENSITY

I. ASPHALT CONCRETE PAVING:

1. AGGREGATE BASE MATERIAL SHALL BE CRUSHED AGGREGATE BASE CONFORMING TO SECTION 203-2.4 OF THE STANDARD SPECIFICATIONS (SSPWC).

2. ASPHALT CONCRETE SHALL BE THE PRODUCT OF MIXING MINERAL AGGREGATE AND A MAXIMUM OF 15 PERCENT RECLAIMED ASPHALT PAVEMENT (RAP) WITH PAVING ASPHALT, IN CONFORMANCE WITH SECTION 203-4 OF THE STANDARD SPECIFICATIONS (SSPWC).

3. PAVING ASPHALT SHALL BE PERFORMANCE GRADE PG 64-10, IN CONFORMANCE WITH SECTION 203-1 OF THE STANDARD SPECIFICATIONS (SSPWC).

4. PAINT BINDER FOR TACK COAT SHALL BE SS-II EMULSIFIED ASPHALT CONFORMING TO SECTION 203-3 OF THE STANDARD SPECIFICATIONS (SSPWC). APPLY A PAINT BINDER OF ASPHALTIC EMULSION AT THE RATE OF 0.15 GALLONS PER SQUARE YARD OF SURFACE TO EXISTING VERTICAL SURFACES AGAINST WHICH PAVING WILL BE PLACED AND BETWEEN PAVEMENT COURSES CONSTRUCTED MORE THAN 24 HOURS APART.

5. MATERIALS FOR SEALCOAT SHALL CONFORM TO SECTION 203-9 OF THE STANDARD SPECIFICATIONS (SSPWC). GUARDTOP IS ACCEPTED BY SCHOOL DISTRICT FOR USE IN SEALCOAT APPLICATIONS.

6. BEFORE ORDERING DELIVERY OF A.C. PAVEMENT, CONFIRM BY SURVEY THAT THE FINISH SURFACE OF THE BASE COURSE FOR PAVEMENTS AND FOR PAVEMENT-RELATED STRUCTURES SHALL NOT VARY MORE THAN 1/8 INCH (0.01 FT) FROM THE DESIGN ELEVATION, SLOPE AND CROSS-SECTION, ESTABLISHED WITH DUE ALLOWANCE FOR THICKNESS OF SURFACING. VARIATIONS WITHIN THE SPECIFIED TOLERANCE SHALL BE COMPENSATING SUCH THAT THE AVERAGE ELEVATION, SLOPE, AND CROSS-SECTION CONFORM TO THOSE SPECIFIED PER PLAN.

FLATNESS: MAXIMUM VARIATION OF 1/8 INCH WHEN MEASURED WITH A 10-FOOT STRAIGHT EDGE. ASPHALT SUBSTRATE SHALL NOT VARY FROM PLANNED CROSS SLOPE BY MORE THAN 30.2% FINISHED ASPHALT SHALL BE SMOOTH AND PLANAR AND SHALL NOT VARY GREATER THAN ±1/8 INCH (0.01 FT) FROM A 10 FOOT STRAIGHT EDGE IN ANY DIRECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SURVEY OF NEW ASPHALT SURFACES THAT ARE ACCEPTABLE TO DISTRICT OR DISTRICT'S REPRESENTATIVE.

7. AFTER CONSTRUCTION OF A.C. PAVEMENT AND APPURTENANT CONCRETE FEATURES BUT BEFORE SEAL COATING AND PAINTING STRIPINGS AND MARKINGS, CONDUCT A FLOOD TEST TO REVIEW SURFACE DRAINAGE, AS FOLLOWS:

• SUPPLY AND DISCHARGE WATER IN SUFFICIENT QUANTITY TO COMPLETELY WET AND COVER ALL A.C. PAVEMENT AND CONCRETE GUTTER AREAS AND ALLOW TO DRAINAWAY FOR ONE HOUR AT 70° F OR WARMER. MARK THE OUTLINE LIMITS OF RESIDUAL STANDING WATER DEEP ENOUGH TO COVER A 1-CENT PRICE, OR DEEPER, WALKS & FLATWORK.

• REMOVE AND REPLACE A.C. PAVEMENT AND CONCRETE GUTTER IMPROVEMENTS AT NO ADDITIONAL COST TO THE OWNER, AS NECESSARY TO PROVIDE POSITIVE SURFACE DRAINAGE AND TO PREVENT PONDING OF WATER ON PAVEMENT SURFACES AND IN GUTTERS. SUBSTITUTION OF ASPHALT CONCRETE SKIN PATCH IN LIEU OF REMOVAL AND REPLACEMENT OF PAVEMENT SHALL BE AT SOLE DISCRETION OF THE OWNER.

• CONDUCT ADDITIONAL FLOOD TESTING TO CONFIRM SUCCESS OF CORRECTIVE MEASURES.

9. NOT SOONER THAN 10 DAYS AFTER COMPLETION OF PAVING, CONSTRUCT SEALCOAT AT THE RATE OF 0.45 GALLONS PER SQUARE YARD OF SURFACE ON ALL NEW AND EXISTING PAVEMENT WITHIN WORK SITE IN ACCORDANCE WITH SECTION 202-4 OF THE STANDARD SPECIFICATIONS (SSPWC). A TACK COAT CONFORMING TO SECTION 202-8.2.1 SHALL BE APPLIED TO EXISTING PAVEMENT SURFACES IN ADVANCE OF SEALCOAT.

K. SUBMITTALS:

PROVIDE SUBMITTALS DEMONSTRATING CONFORMANCE OF MATERIALS PROPOSED FOR USE IN THE PROJECT WITH REQUIREMENTS SPECIFIED HEREIN OR ON THE PLAN, AS FOLLOWS:

• AGGREGATE BASE

• ASPHALT CONCRETE

• CONCRETE

L. CONCRETE:

1. BASE MATERIAL

• AGGREGATE BASE MATERIAL SHALL BE CRUSHED AGGREGATE BASE CONFORMING TO SECTION 200-2.2 OF THE STANDARD SPECIFICATIONS (SSPWC)

2. FORM MATERIALS

• GENERAL: SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 1906, FORMWORK, EMBEDDED PIPES AND CONSTRUCTION JOINTS.

• PLYWOOD FORMS: DOUGLAS FIR SPECIES; SOLID-ONE-SIDE, SOUND UNDAMAGED SHEETS. UNLESS OTHERWISE CALLED FOR ON PLANS, SURFACE OF FORM SIDE AGAINST CONCRETE SHALL PROVIDE A

MEDIUM DENSITY TEXTURE.

• LUMBER: DOUGLAS FIR SPECIES; CONSTRUCTION GRADE WITH GRADE STAMP CLEARLY VISIBLE.

• STEEL FORMS: MINIMUM 16 GAUGE THICK, STIFFENED TO SUPPORT WEIGHT OF CONCRETE WITH MINIMUM DEFLECTION.

• FORM TIES: REMOVABLE METAL OF ADJUSTABLE LENGTH, CONE ENDS.

3. REINFORCING STEEL:

• ALL REINFORCING SHALL BE FABRICATED FROM STEEL MANUFACTURED IN THE UNITED STATES.

• REINFORCING STEEL SHALL BE DEFORMED BILLET-STEEL FOR CONCRETE REINFORCEMENT CONFORMING TO ASTM A615, GRADE 60 FOR BAR SIZES NO. 4 AND LARGER, GRADE 40 FOR BAR SIZE NO. 3, GRADE 60 ACCEPTABLE FOR ALL SIZES.

• WELDED BARS SHALL CONFORM TO THE MOST RECENT ISSUE OF ASTM STANDARD A-706, GRADE 60 FOR ALL BAR SIZES.

4. CONCRETE MATERIALS

• CEMENT: SHALL BE TYPE II, LOW ALKALI (NO HIGHER THAN 0.4%), CONFORMING TO ASTM C-150.

• AGGREGATES (COARSE AND FINE): ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C-33, AGGREGATE SHALL BE UNIFORMLY GRADED, WITH THE MAXIMUM AGGREGATE SIZE BEING 3/4" TO 1", AND THE RATIO OF COARSE AGGREGATE TO FINE AGGREGATE BEING APPROXIMATELY 60% TO 40% (BY WEIGHT), RESPECTIVELY.

• COARSE AND FINE AGGREGATE (SAND) ARE TO COME FROM A SOURCE PROVEN TO HAVE NON-REACTIVE CHARACTERISTICS. COARSE AGGREGATE WHICH IS HEAVY MEDIA PROCESSED (SATCOY, SISOJCO), SANTA MARGARITA ROCK, OR SAN GABRIEL ROCK WILL BE CONSIDERED AS MEETING THE CRITERIA OF NON-REACTIVITY. MCKINPARK SAND QUALITY (BEST, BLUE STAR) WILL BE CONSIDERED AS MEETING THE REQUIREMENTS OF NON-REACTIVITY. OTHER AGGREGATES MEETING OR EXCEEDING THE AGGREGATE REACTIVITY CHARACTERISTICS OF THE AGGREGATES LISTED ABOVE ARE ACCEPTABLE UPON SUBMITTAL OF ADEQUATE DOCUMENTATION (ASTM C-289 AND ASTM C-277 TEST RESULTS THAT ARE NOT MORE THAN 2 YEARS OLD).

• WATER: SHALL BE CLEAN, SUITABLE FOR HUMAN CONSUMPTION, AND NOT DETRIMENTAL TO CONCRETE.

• SHALL BE WATER-BASE LIQUID MEMBRANE-FORMING COMPOUND, CONFORMING TO ASTM C309, 1100-CLEAR SERIES, MANUFACTURED BY W.R. MEDOWS, INC., OR EQUIVALENT, FOR USE ON EXTERIOR FLATWORK ONLY.

• LIQUID MEMBRANE-FORMING COMPOUND SHALL BE APPLIED AT THE RATE OF 1 GALLON PER 200 SQUARE FEET, IN 2 COATS, THE SECOND COAT APPLIED AT RIGHT ANGLES TO THE FIRST.

5. CURING COMPOUND

• SHALL BE WATER-BASE LIQUID MEMBRANE-FORMING COMPOUND, CONFORMING TO ASTM C309, 1100-CLEAR SERIES, MANUFACTURED BY W.R. MEDOWS, INC., OR EQUIVALENT, FOR USE ON EXTERIOR FLATWORK ONLY.

• LIQUID MEMBRANE-FORMING COMPOUND SHALL BE APPLIED AT THE RATE OF 1 GALLON PER 200 SQUARE FEET, IN 2 COATS, THE SECOND COAT APPLIED AT RIGHT ANGLES TO THE FIRST.

6. BONDING AGENT

• SHALL BE POLYVINYL ACETATE HIBOND MANUFACTURED BY LAMBERT CORPORATION, ORLANDO, FL. LOCK BOND NO. 908 MANUFACTURED BY MCKINBURG-GUNCOAN CO., CITY OF INDUSTRY, CA, OR EQUIVALENT.

7. CONCRETE MIX

• MIX AND DELIVER CONCRETE IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, SECTION 1905A.

• HAVE MIX DESIGNED AND CERTIFIED BY A REGISTERED CIVIL ENGINEER, LICENSED IN CALIFORNIA.

• SELECT PROPORTIONS FOR CONCRETE IN ACCORDANCE WITH THE APPROVED DESIGN MIX.

• PROVIDE CONCRETE CONFORMING TO THE FOLLOWING CRITERIA:

ELEMENT	STRENGTH	MIN. CEMENT	MAX. AGG. SIZE	MAX. SLUMP	W/C RATIO	ADMITTANCE
CURBS, GUTTERS, PLATWORK	3,000 PSI	5.5 SAC/CY	3/4-INCH	4 INCHES	0.59	SEE BELOW
DRAINAGE & STAIR ELEVATORS, PAVEMENT	4,000 PSI	6.5 SAC/CY	1-INCH	4 INCHES	0.50	SEE BELOW

• INCLUDE THE FOLLOWING ADMIXTURES:

• 2% MAX. AIR ENTRAINMENT

• 15% FLY ASH, CLASS N OR ONLY

• WATER-REDUCING ADMIXTURE: GRACE WRDA 44, OR EQUIVALENT

• THE USE OF A PEA GRAVEL MIX (ROUNDED 3/8" AGGREGATE) CONCRETE MIX IS EXPRESSLY PROHIBITED.

8. EXPANSION JOINT

• FILLER MATERIAL SHALL BE PREFORMED BITUMINOUS TYPE CONFORMING TO ASTM STANDARD D-1751.

• DOWEL TUBING SHALL BE PLASTIC SPEED DOWEL SUPPLIED WITH SACRIFICIAL PLATE FOR ATTACHING TO FORM, AS SUPPLIED BY AZTEC CONCRETE ACCESSORIES, OR APPROVED EQUIVALENT.

9. REMOVABLE JOINT CAP

• HIGH IMPACT POLYSTYRENE, DEPTH EQUAL TO WIDTH OF EXPANSION JOINT FILLER, SUPPLIED IN 10-FOOT LENGTHS, AS MANUFACTURED BY CONCRETE TIE, OR EQUIVALENT.

• WHERE POLYURETHANE SEALANT PRIMERS ARE USED, A BONDBREAKER TAPE SHALL BE APPLIED PRIOR TO CAULKING.

10. JOINT SEALANT

• FOR CRACK-CONTROL AND EXPANSION JOINTS SHALL BE CHEMICAL-CURE, TWO-COMPONENT, POLYURETHANE-BASE, NON-SAG ELASTOMERIC, SHAPLEX-3000, MANUFACTURED BY Sika CORPORATION, LYNDHURST, NJ, OR APPROVED EQUIVALENT. COLOR: Limestone GREY.

11. EPOXY FLATWORK DOWELS

• EPOXY USED FOR GROUTING REBAR DOWELS TO MAINTAIN JOINT INTEGRITY BETWEEN SITE PLATWORK COMPONENTS (CURBS, GUTTERS, WALKWAYS, RAMPS) SHALL BE SIMPSON SET-XP ADHESIVE, ICC NO. ESR-2508, OR EQUIVALENT. PULL TESTS ARE NOT REQUIRED.

E. STEEL CHAIN LINK FENCE FABRIC:

1. DIMENSIONAL REQUIREMENTS

• HEIGHT: SHALL BE AS CALLED FOR ON THE DSA APPROVED DRAWINGS AND WILL BE 48" OR 72" OR 96" OR 120" NOMINAL. THE NOMINAL HEIGHT IS THE OVERALL DIMENSION BETWEEN ENDS OF THE KNUCKLES, WITH A TOLERANCE OF PLUS OR MINUS 1-INCH. TWISTS ARE NOT PERMITTED.

• STANDARD MESH: 2-INCH DIAMOND PATTERN, EXCEPT WHERE OTHERWISE CALLED FOR ON THE DRAWINGS OR IN THESE SPECIFICATIONS.

• TENNIS COURT MESH: 1 1/2-INCH DIAMOND PATTERN, WHERE CALLED FOR ON THE DRAWINGS OR IN THESE SPECIFICATIONS.

2. WIRE REQUIREMENTS

• GENERAL: SHALL BE GOOD COMMERCIAL QUALITY STEEL WIRE.

• FOR FABRIC HEIGHTS UP TO AN INCLUDING 60": 9 GAUGE (0.148" DIAMETER) CORE.

• FOR FABRIC HEIGHTS ABOVE 60": 9 GAUGE (0.148" DIAMETER) CORE.

3. COATINGS

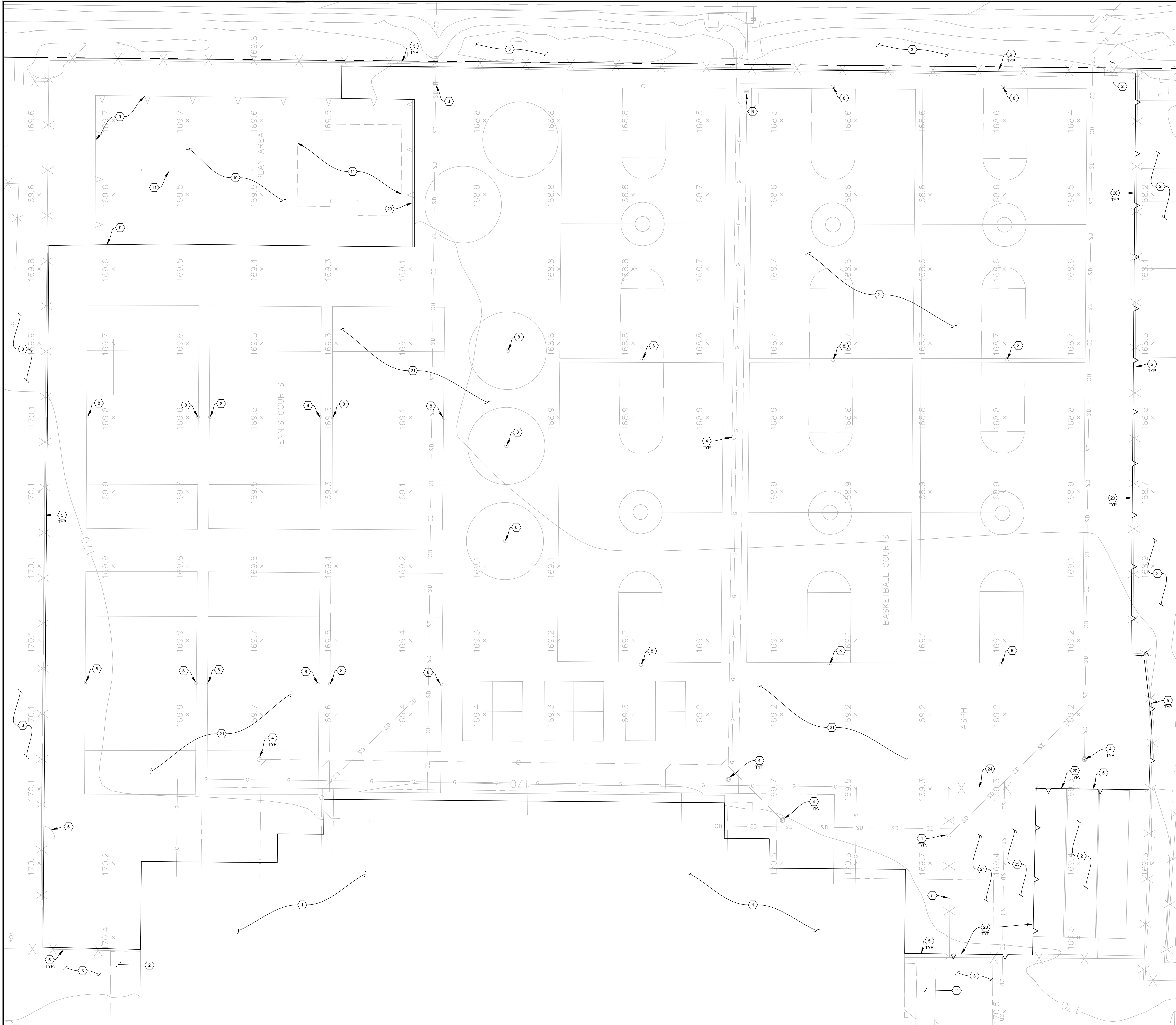
• GALVANIZED: CLASS 1 ZINC COATING, NOT LESS THAN 1.20 OZ./SQ. FT., CONFORMING TO ASTM A-382.

• POLYMER

a. POLY(VINYL CHLORIDE HEAT-FUSED TO GALVANIZED STEEL WIRE, CONFORMING TO ASTM STANDARD F988, CLASS 2B.

b. TYPE OF METALLIC COATING ON THE STEEL WIRE SUBSTRATE SHALL BE THE CHOICE OF THE MANUFACTURER.

c. COLOR: SHALL BE BLACK, CONFORMING TO ASTM STANDARD F-934, UNLESS OTHERWISE SPECIFIED ON



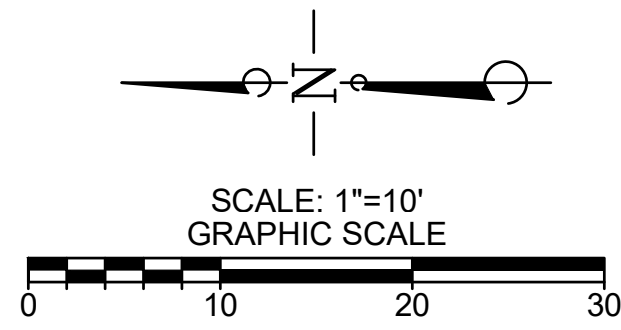
GENERAL CONSTRUCTION NOTES THIS SHEET:

- A. REFER TO LEGEND AND OTHER PLAN USE INFORMATION ON SHEET G-1.
 - B. PROTECT EXISTING UTILITIES WITHIN WORK AREA. NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 2 WORKING DAYS IN ADVANCE OF BEGINNING EXCAVATION AT 1-800-422-4133.
 - C. EXISTING BURIED CONDUITS / PIPES / STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THE DRAWINGS. BASED ON RECORD INFORMATION OR INPUT FROM OTHERS. THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE (SCHEMATIC) ONLY AND, MOST LIKELY, OTHERS EXIST WHICH HAVE NOT BEEN SHOWN. INVESTIGATE, LOCATE AND MARK ALL EXISTING BURIED CONDUITS, PIPES AND STRUCTURES PRIOR TO START OF GRADING OR TRENCHING. PROTECT AND MAINTAIN IN SERVICE ALL SUCH FACILITIES UNTIL OTHERWISE APPROVED IN WRITING BY DISTRICT.
 - D. HORIZONTAL LOCATIONS OF EXISTING BURIED CONDUITS / PIPES / STRUCTURES AS SHOWN ON THE DRAWINGS OR AS MARKED IN THE FIELD ARE APPROXIMATE ONLY. VERTICAL LOCATIONS ARE NOT KNOWN. BEFORE BEGINNING TRENCHING OR GRADING, LOCATE AND EXPOSE ALL BURIED CONDUITS / PIPES / STRUCTURES WHICH CROSS OR OTHERWISE MAY CONFLICT WITH NEW IMPROVEMENTS OR WHICH ARE TO BE JOINED BY NEW CONSTRUCTION AND HAVE HORIZONTAL AND VERTICAL LOCATIONS DETERMINED BY SURVEY. PROVIDE RESULTS OF THIS INVESTIGATION AND SURVEY TO ENGINEER FOR REVIEW BEFORE WORK IS COMMENCED. ALLOW FIVE (5) WORKING DAYS FOR REVIEW. MORE TIME MAY BE MAY BE REQUIRED DEPENDING ON COMPLETENESS OF INFORMATION PROVIDED AND ON EXTENT OF CONFLICTS, IF ANY.
 - E. DEMOLISH AND REMOVE EXISTING OBJECTIONABLE MATERIAL FROM THE WORK AREA AND DISPOSE OF AS NECESSARY TO COMPLETE THE WORK, WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
 - F. WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, PROTECT FROM DAMAGE ALL EXISTING FEATURES WITHIN AND IN THE VICINITY OF THE WORK AREA WHICH ARE NOT TO BE ALTERED BY PROPOSED WORK.
1. DOCUMENT THE EXISTING CONDITION AND PROVIDE SUCH DOCUMENTATION TO DISTRICTS REPRESENTATIVE PRIOR TO BEGINNING WORK.
 2. PROTECT DURING CONSTRUCTION FROM PHYSICAL AND AESTHETIC DAMAGE INCLUDING CRACKING, SCRAPING, DEFORMING, SOILING, AND SPLATTER FROM PAINT, CONCRETE OR ASPHALT EMULSION.
 3. RESTORE TO PRE-CONSTRUCTION CONDITION AND APPEARANCE TO SATISFACTION OF DISTRICT AT NO ADDITIONAL COST TO DISTRICT.

DEMOLITION NOTES THIS SHEET:
(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

- PROTECTIONS:
1. PROTECT EXISTING BUILDING AND SITE WALLS INCLUDING SURFACE AND PAINT. IF NEW FLATWORK SURFACE ADJACENT TO WALL IS LOWER THAN THAT WHICH WAS REPLACED, PREPARE WALL SURFACE AND PAINT TO MATCH EXISTING.
 2. PROTECT EXISTING PAVEMENT TO REMAIN.
 3. PROTECT EXISTING LANDSCAPED AREA.
 4. PROTECT EXISTING UTILITY AND / OR VAULT. ADJUST LIDS TO PROPOSED FINISHED SURFACE AS NECESSARY.
 5. PROTECT EXISTING FENCE AND / OR GATE TO REMAIN.
 6. PROTECT EXISTING CATCH BASIN TO REMAIN.
 7. NOT USED.
 8. PROTECT EXISTING PLAYGROUND EQUIPMENT POST AND FOUNDATION TO REMAIN.
 9. PROTECT EXISTING PLAYGROUND CURB TO REMAIN.
 10. PROTECT EXISTING PLAYGROUND RUBBER SURFACE TO REMAIN.
 11. PROTECT EXISTING PLAYGROUND EQUIPMENT TO REMAIN.
 - 12-19 NOT USED.

- REMOVALS:
20. PROPOSED SAWCUT LINE. PROTECT EXISTING EDGE OF A.C. OR CONCRETE IMPROVEMENT TO REMAIN UNTIL CONSTRUCTION OF CONFORMING IMPROVEMENTS (TYPICAL).
 21. DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT.
 22. DEMOLISH AND REMOVE EXISTING PLAYGROUND EQUIPMENT POST AND FOUNDATION.
 23. DEMOLISH AND REMOVE EXISTING CURB.
 24. EXISTING FENCE AND/OR GATE TO BE REMOVED TO LIMITS SHOWN ON PLAN.
 25. EXISTING BIKE RACKS TO BE REMOVED. COORDINATE WITH DISTRICT ON LOCATION.

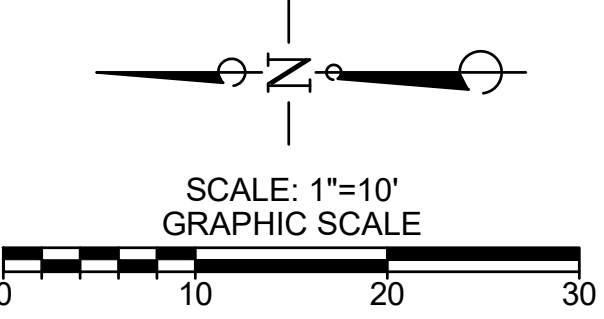
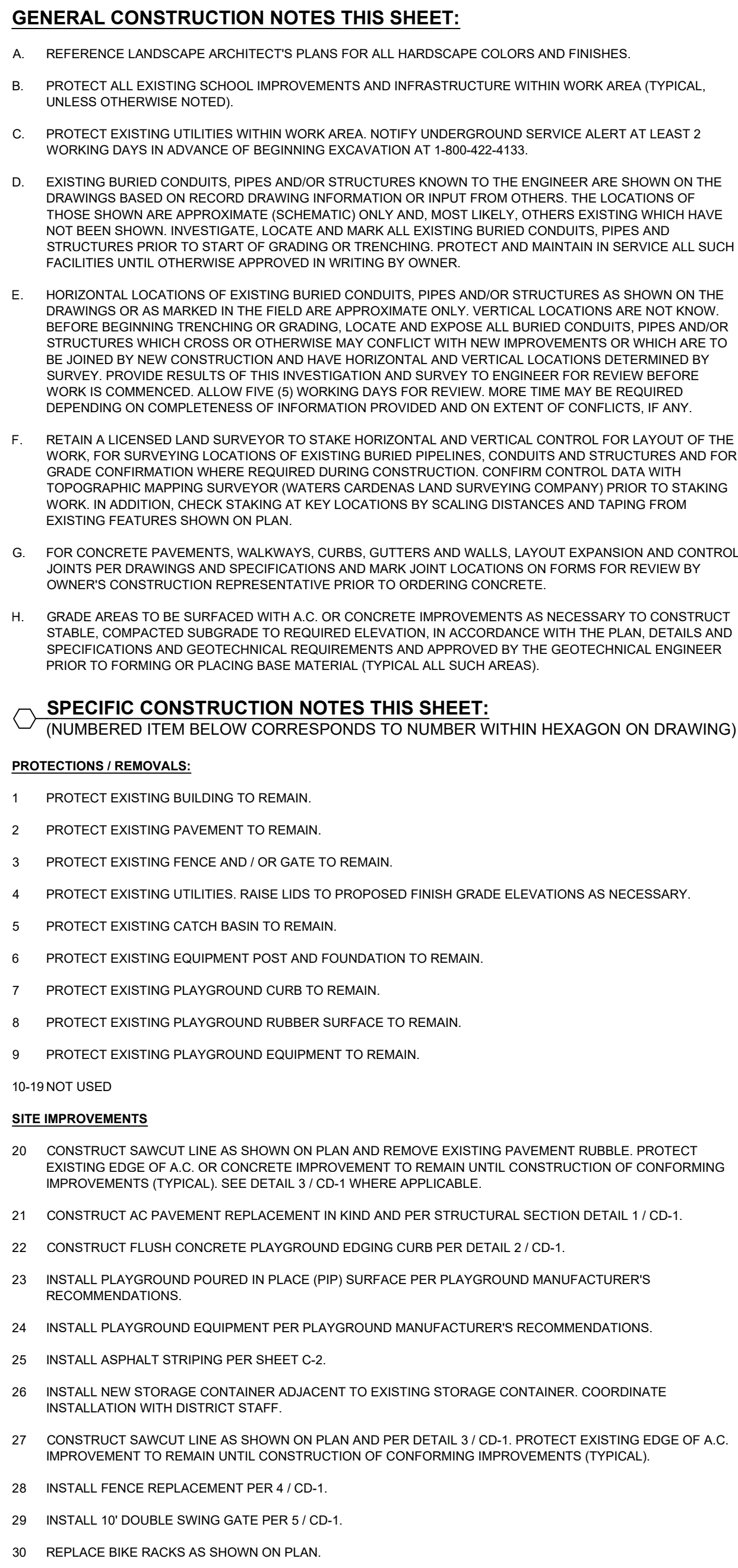


IMPORTANT NOTICE
ALL UTILITY LOCATIONS ARE APPROXIMATE.
CONTRACTOR IS TO NOTIFY UNDERGROUND
SERVICE ALERT TWO WORKING DAYS PRIOR
TO STARTING ANY EXCAVATION OR RESUR-
FACING.
CALL TOLL FREE 1-800-422-4133

DEMOLITION PLAN		FLOWERS & ASSOCIATES, INC.		PROFESSIONAL ENGINEER No. 71335 CIVIL PLANNING	
MAIN PLAYGROUND REPLACEMENT PLANS		115 W. Canon Perdido Street Santa Barbara, CA 93101 Phone (805) 968-2324		DATE: 3/2/2026	
PLEASANT VALLEY SCHOOL OF ENG. & ARTS		BY: [Signature]		APPROVED: [Signature]	
550 TEMPLE AVENUE				DATE: []	
CITY OF CAMARILLO, CALIFORNIA				NO. []	
				REVISIONS	
				DATE	
				APPROVED	

THESE PLANS HAVE BEEN PREPARED SOLELY FOR USE FOR THE PROJECT SCOPE AND SITE SPECIFICALLY IDENTIFIED HEREON AT THE TIME THESE PLANS ARE SIGNED. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, USE OF ANY PART OF THESE PLANS, INCLUDING ANY NOTE OR DETAIL, FOR ANY UNAPPROVED OR REVISED PROJECT SCOPE, OR FOR ANY OTHER PROJECT AT THIS OR ANY OTHER SITE.

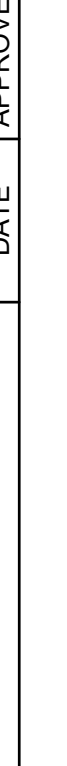
DATE: 03/02/2026
SHT. 2 OF 6
W.O. 2005C

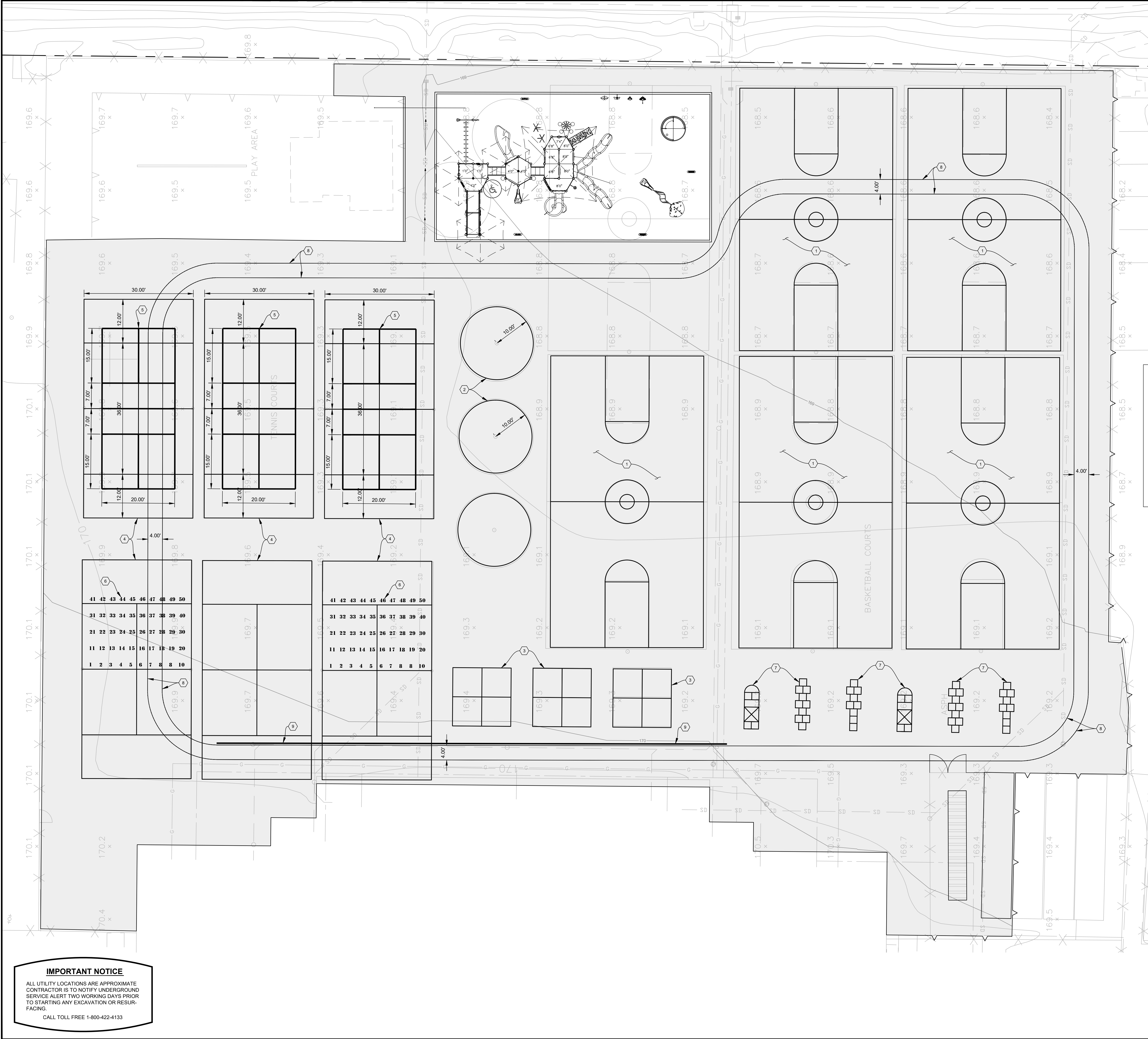


IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE
CONTRACTOR IS TO NOTIFY UNDERGROUND
SERVICE ALERT TWO WORKING DAYS PRIOR
TO STARTING ANY EXCAVATION OR RESUR-
FACING.

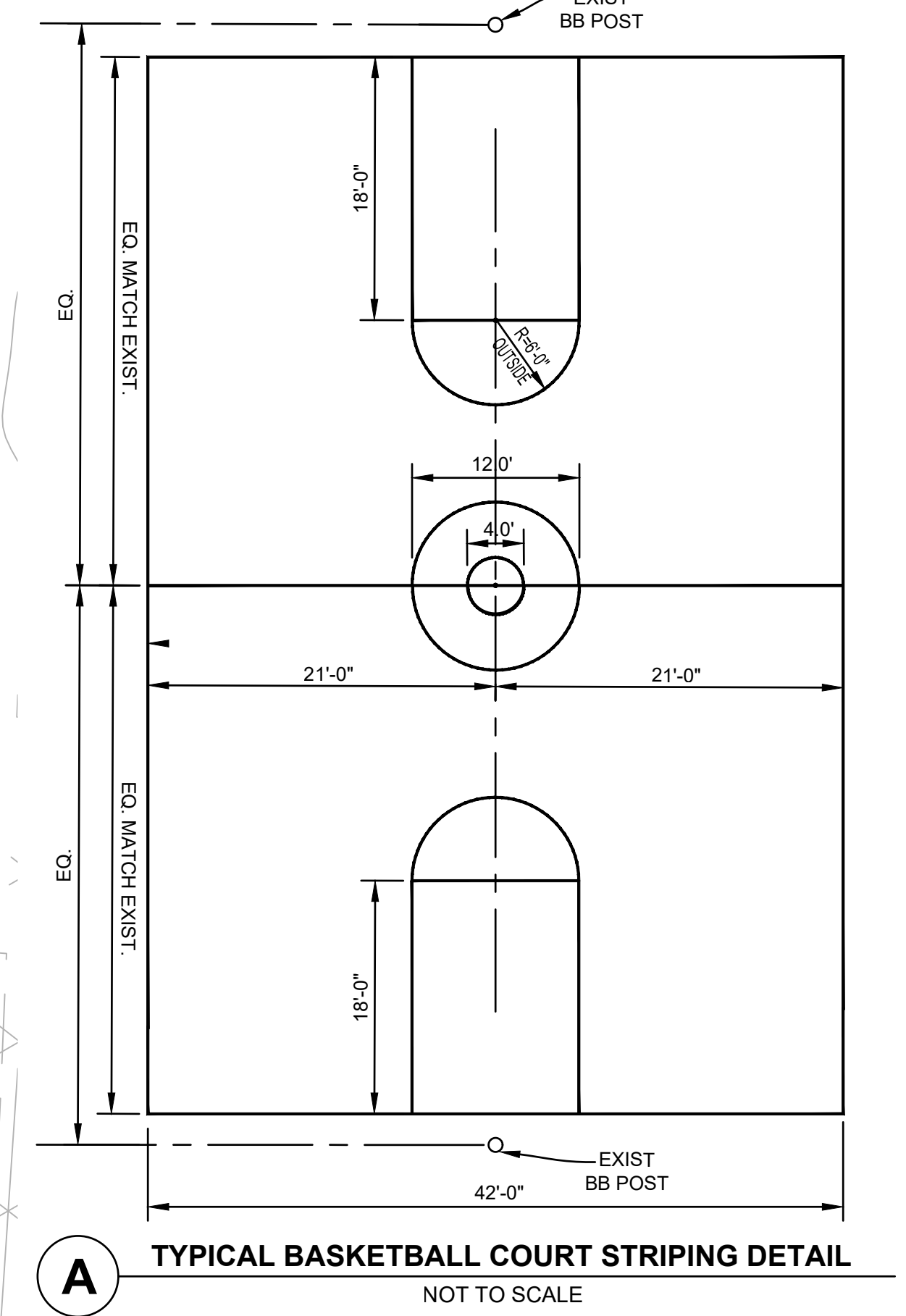
CALL TOLL FREE 1-800-422-4133

C-1 DATE: 03/02/2026 SHT. 3 OF 6		SITE IMPROVEMENT PLAN MAIN PLAYGROUND REPLACEMENT PLANS PLEASANT VALLEY SCHOOL OF ENG. & ARTS 550 TEMPLE AVENUE CITY OF CAMARILLO, CALIFORNIA		FLOWERS & ASSOCIATES, INC. 1140 Canyon Parkway Street Suite 100 Camarillo, CA 93010 Telephone (805) 966-2224 BY: <i>[Signature]</i> DATE: 3/2/2026 		NO. _____ DESCRIPTION _____ REVISIONS DATE _____ APPROVED _____	
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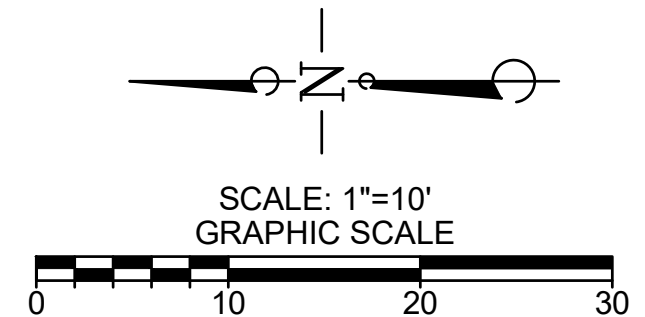


- GENERAL CONSTRUCTION NOTES THIS SHEET:**
- A. PAINT COURT STRIPING IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE COURT STRIPING NOTES HEREON (TYPICAL).
 - B. ALL PROPOSED STRIPING LINES ARE 2"-WIDE.
 - C. DIMENSIONS GIVEN ARE TO CENTERLINE OF STRIPE EXCEPT FOR RADIALS WHICH ARE FROM RADIUS POINT TO EITHER INSIDE OR OUTSIDE OF STRIPE, PER PLAN.
 - D. BEFORE BEGINNING PAINTING, CONFIRM STRIPING LAYOUT USING PHYSICAL MEASUREMENTS MADE ON THE GROUND.
- SPECIFIC CONSTRUCTION NOTES THIS SHEET:**
(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)
- 1 REPLACE EXISTING WHITE BASKETBALL COURT STRIPING IN KIND. SEE TYPICAL BASKETBALL COURT STRIPING DETAIL 'B' THIS SHEET.
 - 2 REPLACE EXISTING WHITE TETHERBALL COURT STRIPING IN KIND.
 - 3 REPLACE EXISTING WHITE FOUR SQUARE STRIPING IN KIND.
 - 4 REPLACE EXISTING WHITE VOLLEYBALL PAVEMENT MARKINGS AS SHOWN IN KIND.
 - 5 INSTALL YELLOW PICKELBALL COURT STRIPING AS SHOWN ON PLAN.
 - 6 REPLACE 1" TALL WHITE NUMBER MARKINGS AS SHOWN ON PLAN.
 - 7 REPLACE WHITE HOPSCOTCH MARKINGS AS SHOWN ON PLAN.
 - 8 REPLACE 4" BLUE PAVEMENT MARKINGS AS SHOWN ON PLAN.
 - 9 REPLACE 4" ORANGE PAVEMENT MARKINGS AS SHOWN ON PLAN.

- COURT LAYOUT CRITERIA:**
- 1. THE LONGITUDINAL CENTERLINE AND THE COURT DIVISION LINE FOR EACH BASKETBALL COURT ARE ESTABLISHED IN THE FIELD, CONTROLLED BY THE LOCATIONS OF THE EXISTING GOAL SUPPORT POSTS.
 - 2. THE 3-POINT LINE FOR EACH BASKETBALL COURT IS ESTABLISHED IN THE FIELD USING THE CENTER OF EACH BASKET AS THE RADIUS POINT; THIS ALSO LOCATES THE FREE THROW LINE AND FREE THROW LANE.
 - 3. SPACE AND NEUTRAL ZONE MARKS ALONG EACH SIDE OF THE FREE THROW LANE (WHERE APPLICABLE) ARE DIMENSIONED OFF THE FACE OF EACH BACKBOARD, AS DETERMINED IN THE FIELD.
 - 4. THE CENTER CIRCLE RADIUS POINT IS LOCATED IN THE FIELD AT THE INTERSECTION OF THE COURT DIVISION LINE AND A LINE RUNNING THROUGH THE CENTER OF EACH BASKET; COURT AND FREE THROW LANE SIDELINES ARE PARALLEL WITH THIS CENTERLINE.
 - 5. VOLLEYBALL COURT CENTERLINES ARE PARALLEL WITH BASKETBALL SIDELINES AND END LINES.



IMPORTANT NOTICE
ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.
CALL TOLL FREE 1-800-422-4133



STRIPING PLAN
MAIN PLAYGROUND REPLACEMENT PLANS
PLEASANT VALLEY SCHOOL OF ENG. & ARTS
550 TEMPLE AVENUE
CITY OF CAMARILLO, CALIFORNIA

C-2

DATE: 03/02/2026
SHT. 4 OF 6

FLOWERS & ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Phone: 805 962-2224

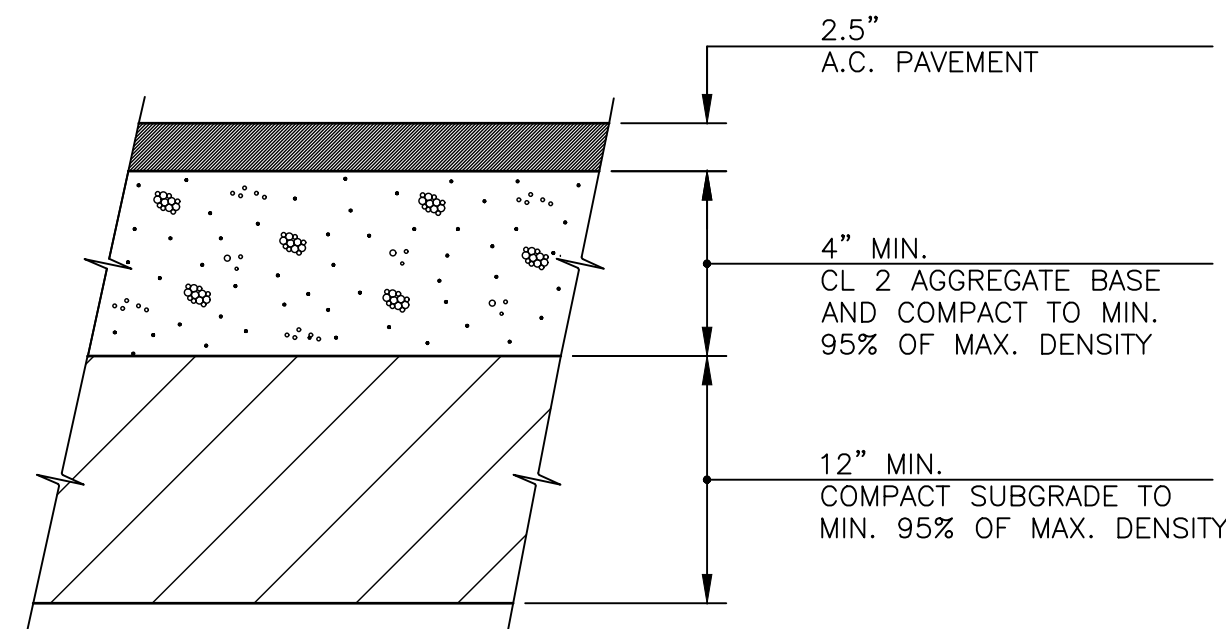
BY: [Signature]
DATE: 3/2/2026

REVISIONS	
NO.	DESCRIPTION

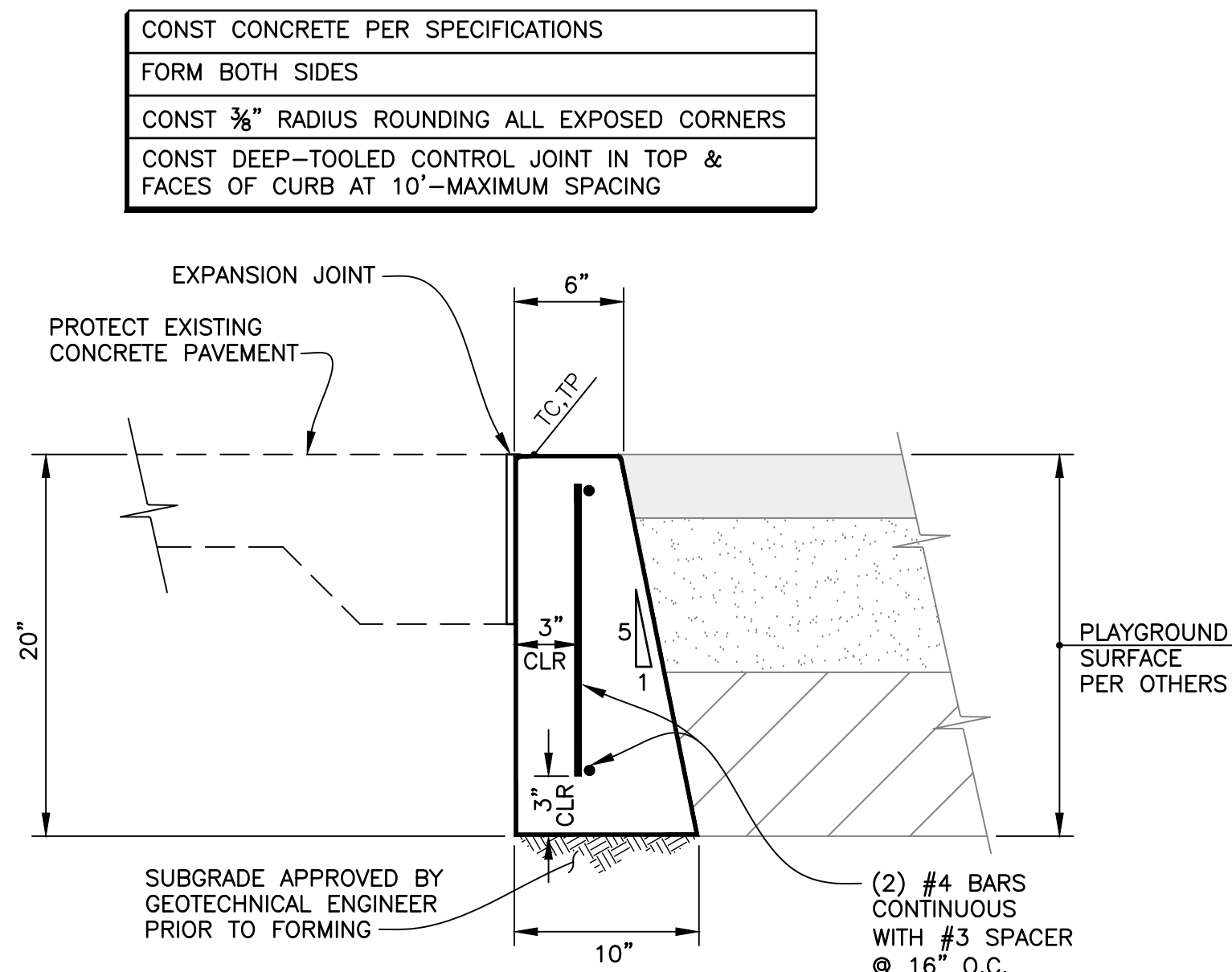
REGISTERED PROFESSIONAL ENGINEER
No. 71335
CIVIL
STATE OF CALIFORNIA

DATE: 3/2/2026

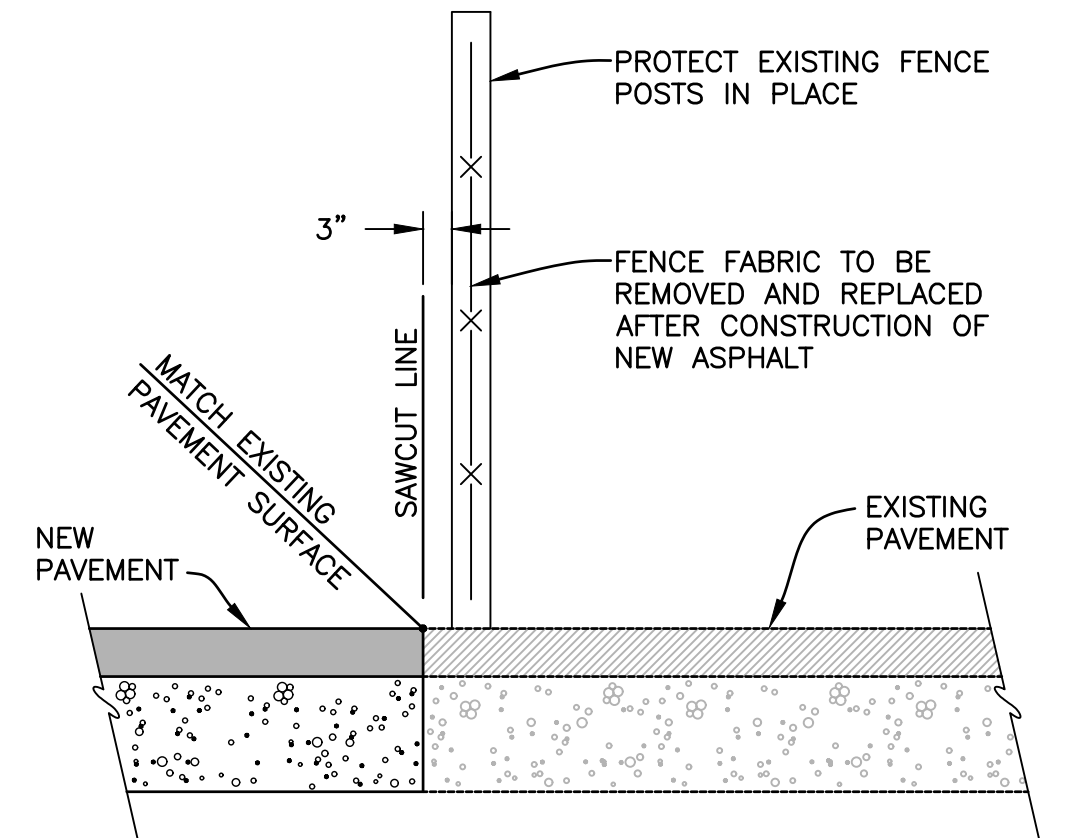
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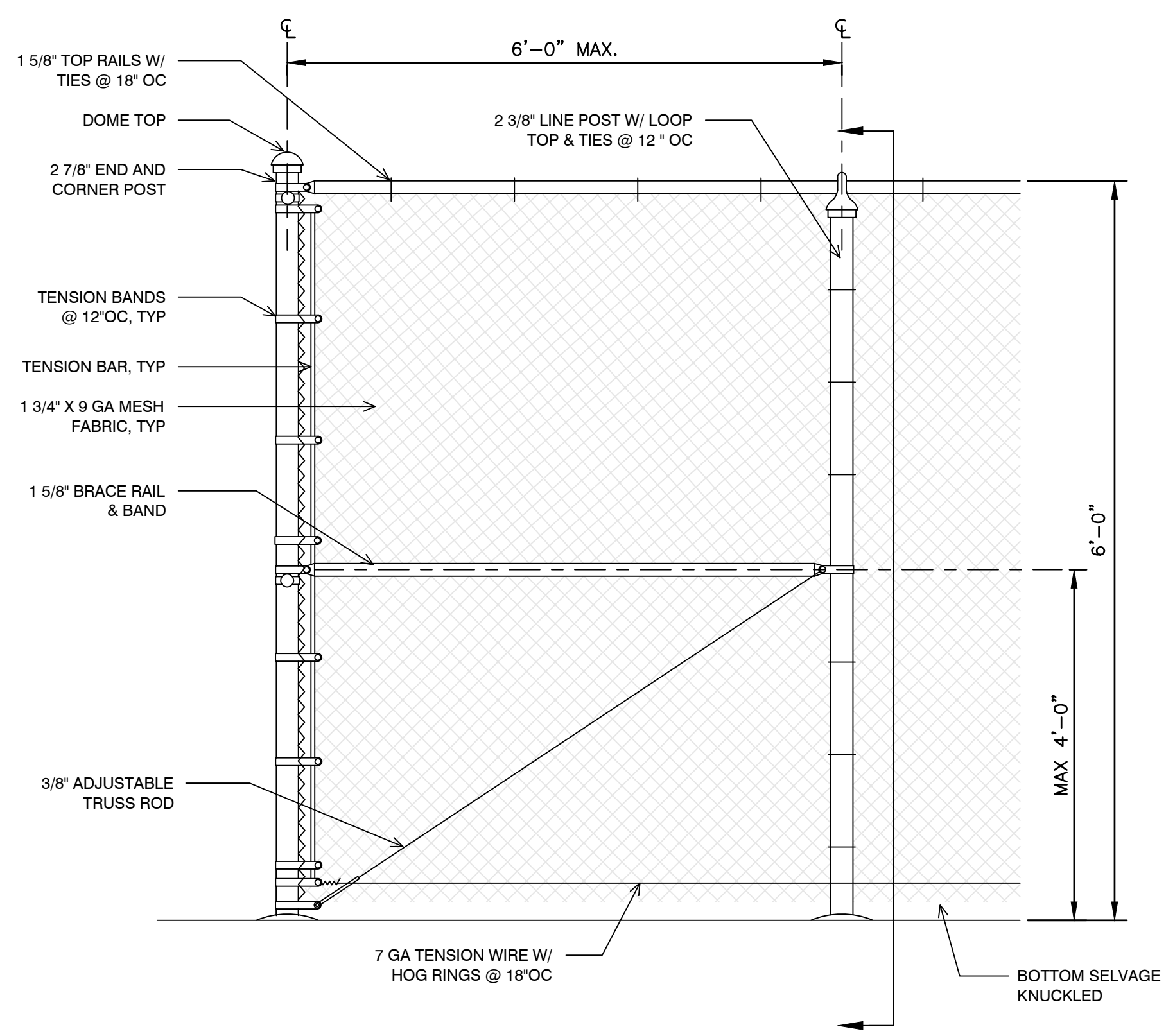
1 TYPICAL A.C. PAVEMENT REPLACEMENT SECTION
NOT TO SCALE



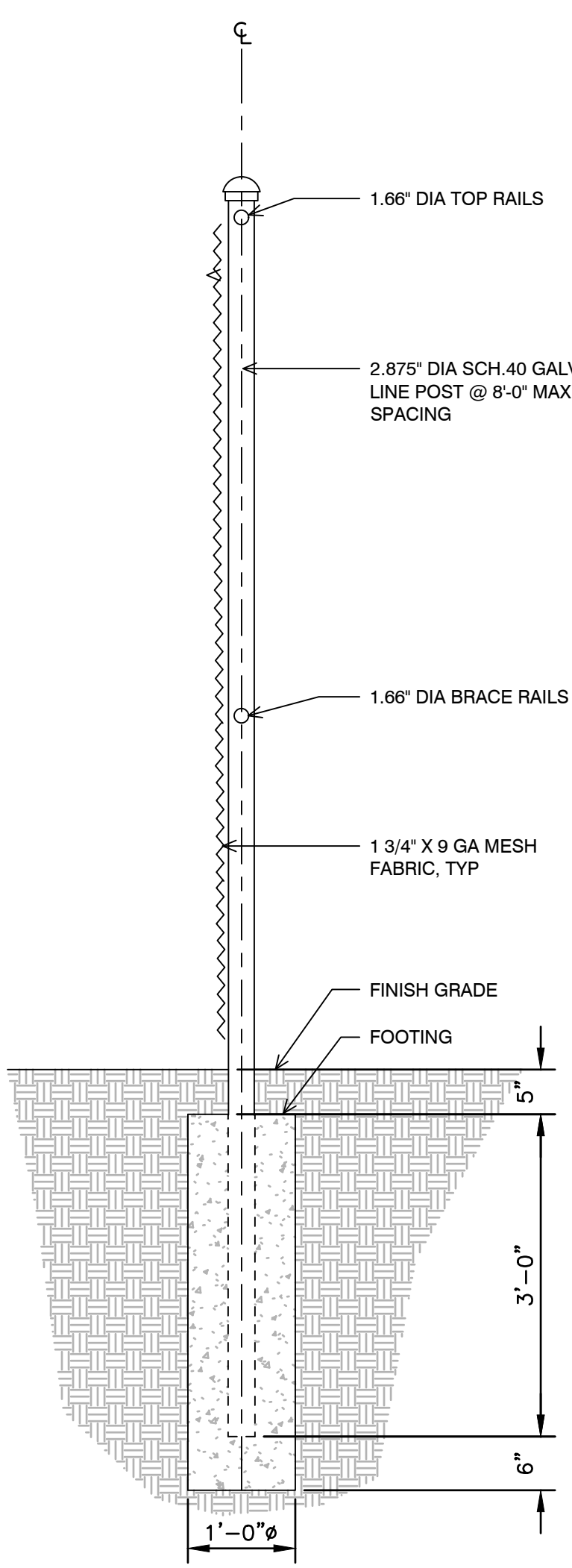
2 PLAY AREA CONTAINMENT CURB DETAIL
NOT TO SCALE



3 SAWCUT AT FENCE DETAIL
NOT TO SCALE

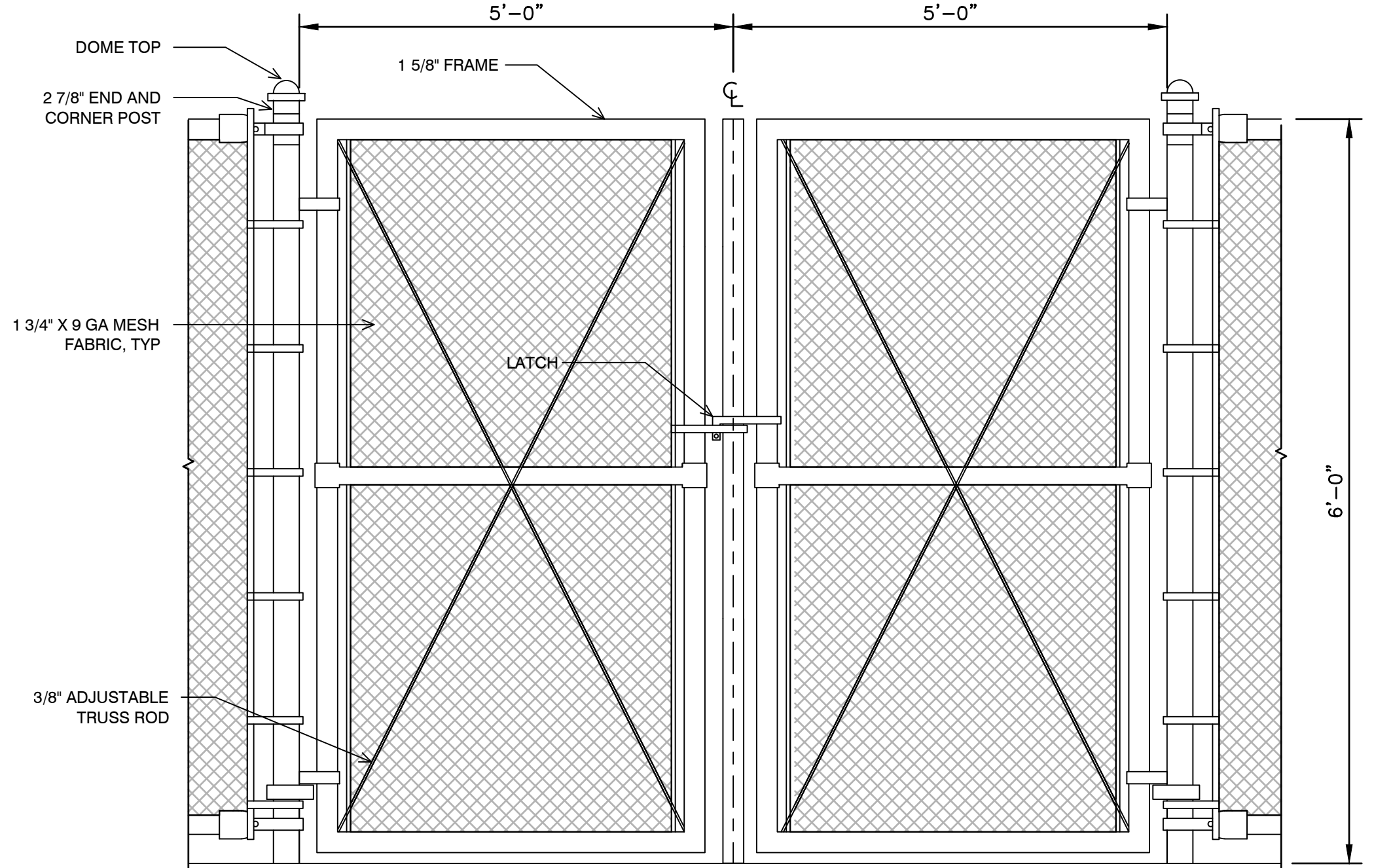


ELEVATION



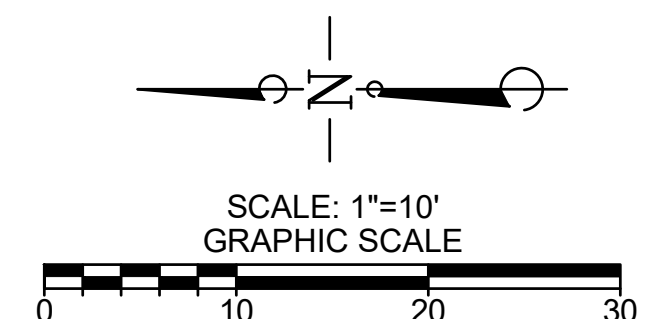
SECTION

4 FENCE DETAIL
NOT TO SCALE



NOTE: GATE TO BE INSTALLED PER MANUFACTURER'S AND FENCE INSTALLER RECOMMENDATIONS

5 DOUBLE GATE DETAIL
NOT TO SCALE



SCALE: 1"=10'
GRAPHIC SCALE

CONST CONCRETE PER SPECIFICATIONS
FORM BOTH SIDES
CONST 3/8" RADIUS ROUNING ALL EXPOSED CORNERS
CONST DEEP-TOOLED CONTROL JOINT IN TOP & FACES OF CURB AT 10'-MAXIMUM SPACING

CONSTRUCTION DETAILS MAIN PLAYGROUND REPLACEMENT PLANS PLEASANT VALLEY SCHOOL OF ENG. & ARTS 550 TEMPLE AVENUE CITY OF CAMARILLO, CALIFORNIA		CD-1 DATE: 03/02/2026 SHT. 5 OF 6
FLOWERS & ASSOCIATES, INC. 115 W. Canon Perdido Street Santa Barbara, CA 93101 Telephone (805) 968-2324		REVISIONS NO. DATE DESCRIPTION 1 03/02/2026

THESE PLANS HAVE BEEN PREPARED SOLELY FOR USE FOR THE PROJECT SCOPE AND SITE SPECIFICALLY IDENTIFIED HEREON AT THE TIME THESE PLANS ARE SIGNED. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR Liable FOR, USE OF ANY PART OF THESE PLANS, INCLUDING ANY NOTE OR DETAIL, FOR ANY UNAPPROVED OR REVISED PROJECT SCOPE, OR FOR ANY OTHER PROJECT AT THIS OR ANY OTHER SITE.

Play & Park Structures

Minimum Area Required:
75'-0" X 40'-0"

40			<u>User Capacity</u>
18			
4	Req.	0	100-125
18	Req.	9	<u>Critical Fall Height</u>
22	Req.	6	8'-0"
8	Req.	3	



It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment. Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction. IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

PVSEA - Option 1
700 Temple Ave
Camarillo, CA 93010

Play & Park Structures



This play equipment is recommended for children ages:
5-12

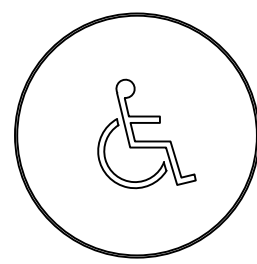
Minimum Area Required:
75'-0" X 40'-0"

Scale: 1/4" = 1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Kimber Scroggins
Date:
1/28/2026
Quote Number:
821-180681B



544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

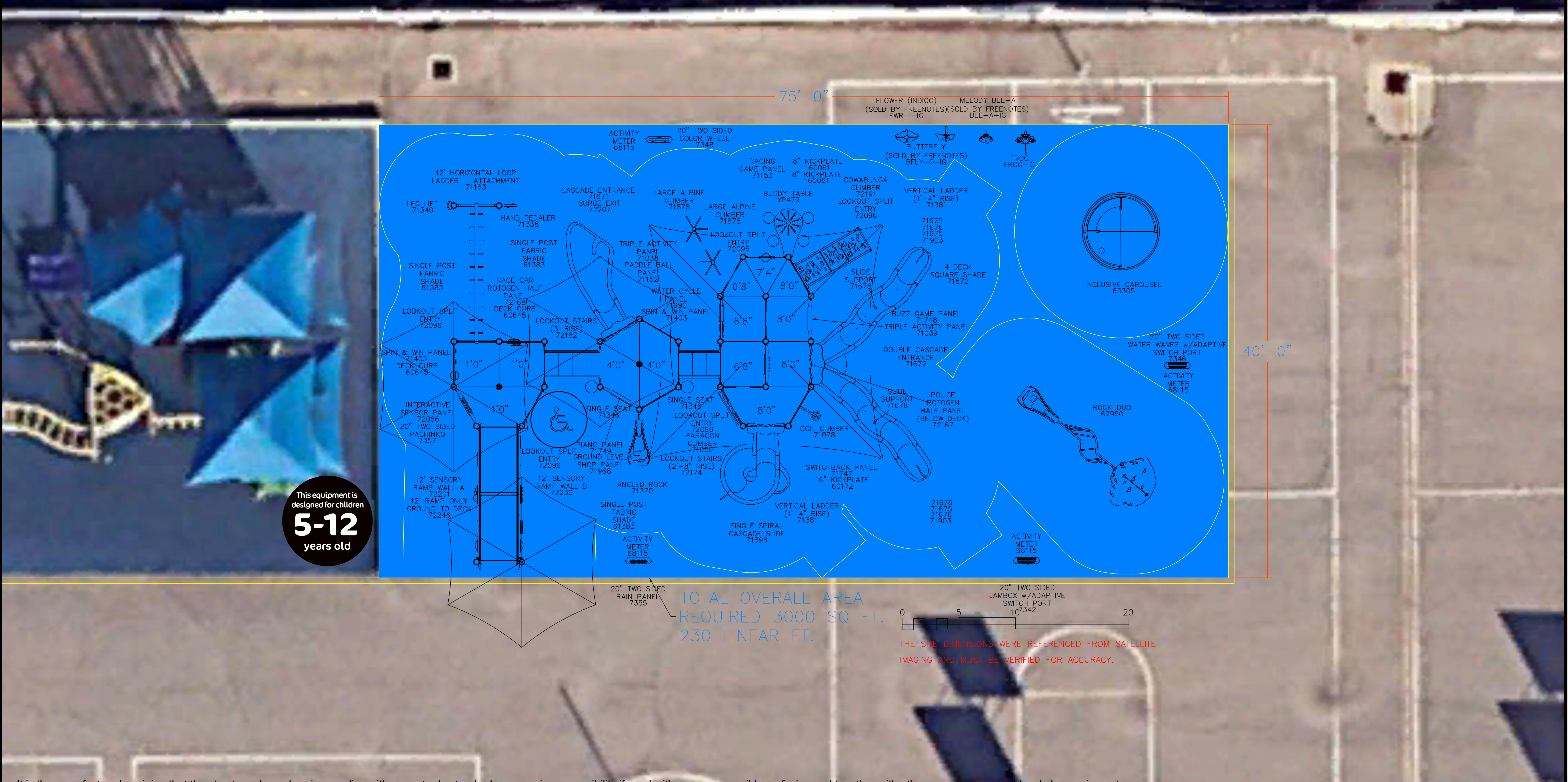


Total Play Components
Elevated Play Components
Elevated Play Components Accessible by Ramp
Elevated Components Accessible by Transfer
Accessible Ground Level Components Shown
Different Types of Ground Level Components

40
18
4
18
22
8

Req.
Req.
Req.
Req.

User Capacity
100-125
Critical Fall Height
8'-0"



It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

GEOTECHNIQUES

1645 Donlon Street, Ste. 107
Ventura, California 93003
(805) 456-9585, (805) 658-8952

January 26, 2026 (rev. 2/16/26)

Project No. 1025.010

Pleasant Valley School District
600 Temple Avenue
Camarillo, California 93010

Attention: Ms. Sandra Lovaas, Measure C Bond Manager

Subject: Geotechnical Recommendations for Replacement of Playground Asphalt Concrete at PVSEA, in the Pleasant Valley School District, 700 Temple Avenue, Camarillo, California

Dear Ms. Lovaas:

This geotechnical letter report provides recommendations for the preparation of subgrade and construction of playground replacement asphalt concrete pavement at Pleasant Valley School of Engineering and Arts ("PVSEA"), in Camarillo, California.

SITE CONDITIONS

The original playground pavement structural section consisted of up to about 3½ inches of asphalt concrete, with Petromat below the upper 1¼ inches. Subgrade soil is anticipated to consist of clayey silt with fine sand that is several percentage points over optimum moisture content.

SUBGRADE PREPARATION RECOMMENDATIONS

Areas to receive replacement asphalt concrete structural section shall be underlain by a minimum of 12 inches of subgrade compacted to a minimum of 95 percent of the maximum dry density determined according to ASTM D1557.

Preliminary Site Preparation

Contractor should rip and cross-rip subgrade soil upon removal of asphalt concrete structural section to maximize aeration potential of subgrade soils. Excavations and depressions, either existing or from removal of root-balls, below grade structures or improvements, or footings, or from rutting from demolition and construction equipment trafficking shall not be filled in or smoothed over outside the presence of the Geotechnical representative.

Contractor should avoid over-trafficking during demolition and subsequently in terms of applied pressure to subgrade (e.g., equipment type and weight) and repeated passes over ingress/egress and hauling lanes to prevent elevating subgrade moisture conditions and rutting. Contractor shall mitigate or repair at its expense, any rutting and elevated moisture conditions from demolition or earthmoving equipment.

Subgrade Preparation

Subgrade for asphalt concrete or on-grade concrete shall be excavated to a level corresponding to the structural section total thickness. Exposed subgrade soils likely will require ripping and cross-ripping and reducing the upper 1 foot to pea-sized consistency to effect aeration to within 2 percent of optimum moisture content. The excavation shall be deepened, as necessary to remove organics, topsoil, and deleterious material and extend a horizontal distance of an additional 1 foot beyond the asphalt concrete or new concrete in unimproved areas. The exposed surface in the excavation bottom shall be observed by the Geotechnical representative prior to ripping for aeration, scarification or compaction. Excavation bottoms likely shall require extended aeration periods (after scarification effecting pulverization) prior to compacting. Once the targeted moisture condition is achieved, processed materials shall then be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.

Alternatives to Subgrade Aeration and Subgrade Stabilization

An alternative to aeration consists of the treatment of onsite over-moist clayey materials with cement to reduce elevated in-place moisture content and to effect "bridging" over potentially yielding, unstable underlying subgrade materials. For silty and clayey subgrade treatment, 3 to 4 percent cement (by weight), shall be thoroughly mixed into the upper 1 foot of the excavation bottom in accordance with Section 301-3.2.5 of the "Greenbook." The soil-cement mixture shall be moisture-conditioned and compacted to a minimum of 95 percent of the maximum dry density within 90 minutes of adding moisture to cement-treated soil and according to Section 301-3.2.7. The compacted soil-cement mixture shall be cured according to Section 301-3.2.10. At least 2 days of curing time shall be allowed prior to placement of general, select, or treated fill materials. This cement content is appropriate for low-contact pressure, lightweight equipment operation; heavier equipment and rubber tired equipment imposing higher contact pressures shall require higher cement concentrations—approaching 10 percent by weight (for a pavement recycler, for example)—and/or thicker treated zones in order to support heavier equipment loads during construction.

An alternative to cement treatment of subgrade consists of removal and replacement of the upper 1 foot of subgrade with aggregate base over Mirafi 600X, placed in accordance with the manufacturer's instructions, with the full thickness of aggregate base placed before trafficking with lightweight spreading and compacting equipment so that "bridging" is achieved and maintained over underlying very moist soil.

Cement-treatment and replacement with aggregate base alternatives both require that the Contractor employ appropriate minimal equipment loading (i.e., lightweight equipment and appropriate for materials affected) and trafficking reduction measures to maintain integrity of the compacted subgrade and overlying base courses through completion of concrete placement.

Contractor Awareness and Operations Considerations

The likelihood of encountering very moist subgrade soils should be factored into all aspects of demolition and construction to avoid exacerbating subgrade moisture conditions and inducing 'pumping' of subgrade materials.

Equipment loads during demolition and subgrade preparation in pavement and concrete improvement areas shall be minimized, as needed, to avoid increasing moisture content of exposed or underlying subgrade materials and in excavations and subsequently placed fill materials during fill placement and compaction. Examples of such excavating, spreading, processing and compacting equipment include low ground pressure track dozers or, to a greater extent, excavators or backhoes staged outside the excavation. Similar low or no-load means of compacting fill shall be used, as needed, including non-tired sheepsfoot compactors for fine-grained subgrade materials. Care shall be exercised to avoid repeated passes over ingress or egress areas, and to avoid overworking or overloading any area such that pumping conditions and elevated moisture contents and/or rutting are induced by demolition and/or construction operations.

Aeration of subgrade soils should be initiated at earliest well-forecasted and practicable opportunity along with subsequent episodes of turning and/or cross ripping to maximize exposure to drying effects.

Lightweight equipment shall be used for placing and compacting subsequent lifts and courses, as needed, until "bridging" over potentially unstable pumping subgrade soil is accomplished and risk of aggravating moisture conditions with other equipment is low (i.e., the "bridging" effect is not destroyed by subsequent heavy or repeated loadings).

Contractor shall proof-roll both compacted subgrade and aggregate base course with fully-loaded water truck with no deflections in presence of geotechnical representative prior to placing base and asphalt concrete, respectively.

Fill Placement and Compaction

Onsite soils are anticipated to be used as general fill once cleared of organic material, demolition or other debris, and any oversized rock. Earth materials placed as fill or within the upper 12 inches of subgrade in asphalt concrete pavement areas should consist of onsite excavated general fill or imported non-expansive materials with an Expansion Index less than 20. Unless noted otherwise herein, the upper 1 foot of subgrade materials shall be compacted to a minimum of 95 percent of the maximum dry density determined from ASTM D1557.

Subgrade and onsite soils used as fill and imported fill materials shall be placed and compacted at a moisture content of between 0 and 2 percent over optimum moisture content. Each layer shall be spread evenly in loose lifts no thicker than 8 inches and shall be thoroughly blade-mixed during the spreading to reduce soil consistency to pea-size or finer and to provide relative uniformity of material within each layer. Fill and backfill materials may need to be placed in thinner lifts to achieve the recommended compaction with the equipment being used. Soft or yielding materials shall be removed and be replaced with properly compacted fill material, prior to placing the next layer.

Rock, gravel and other oversized material greater than 3 inches in diameter, shall be removed from the subgrade and fill material being placed. Rock less than 3 inches in diameter shall not be nested and voids caused by inclusion of rock in the fill shall be filled with sand or other approved material. All roots larger than ½-inch diameter shall be removed and discarded.

All subgrade and fill materials, including scarified materials, shall be thoroughly processed to pea-sized or finer consistency prior to aeration and applying compactive effort.

Blading or turning very moist to wet soils shall be necessary to effect uniform aeration throughout the targeted layer of soil. When the moisture content of the fill material is below that sufficient to achieve the recommended compaction, water shall be added to the fill during processing. While water is being added, the soil shall be bladed and mixed to provide relatively uniform moisture content throughout the material. .

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

FILL MATERIALS

Fill shall be free of organics, oversize material (e.g., greater than 3 inches in diameter), trash and debris, and other deleterious material. The expansion index of imported materials or onsite materials used as general fill shall be tested, as necessary, during earthmoving operations to verify that the expansion index of the material is suitable for its use as general or select fill.

Onsite Soils. Onsite soils are generally anticipated to consist predominantly of clayey silt with fine sand that meets the requirements for general fill.

General Fill. General fill materials shall have an expansion index less than or equal to 40. If necessary, general fill may be blended with sand or dry cement just prior to compaction to reduce the expansion index.

There is a potential that silty and clayey onsite general fill materials, where encountered, could be sensitive to changes in moisture content. Control of moisture content, compaction layer thickness, and efficiency and appropriateness of equipment to soil type will likely be necessary to achieve and maintain the recommended compaction.

Imported Fill. Imported fill to be used as general fill shall meet or exceed the requirements of general fill material and shall be non-expansive. Imported fill materials shall be observed, tested as necessary, and accepted by Geotechniques prior to being brought to the site.

Aggregate Base. Aggregate base materials shall consist of imported material conforming to Caltrans Standard Specifications for Class 2 aggregate base, Section 26-1.02B [Caltrans, 2024] or Section 200-2.4 of the "Greenbook" (Public Works Standards, Inc., latest edition) for Crushed Miscellaneous Base (CMB).

A minimum 4-inch compacted thickness of aggregate base course is required beneath on-grade concrete and asphalt concrete courses. Aggregate base shall be moisture conditioned to optimum moisture content before placing and spreading and shall be compacted to a minimum of 95 percent of the maximum dry density. Aggregate base materials shall be laterally confined during compaction to achieve the minimum compaction requirements.

Asphalt Concrete. Material for new asphalt concrete playground pavement should consist of plant-mixed 3/8-inch D2 RAP. Asphalt shall be PG-64-10 performance grade binder, per Caltrans Standard Specifications Section 92. Gradation of aggregate and asphalt content of the mix shall be such that a smooth dense finished surface is produced.

Bedding Sand in Utility Trenches. Sand used as bedding and pipe zone sand in utility trenches shall conform to Caltrans Standard Specifications for sand bedding, Section 19-3.02F(2) (2024) and have a minimum Sand Equivalent (SE) of 30. The sand shall have a gradation that allows the material to maintain a compacted surface condition during construction operations until concrete placement or until pipe and/or subsequent lift placement (i.e., as bedding or pipe zone sand in utility trench).

ASPHALT CONCRETE AND ON-GRADE CONCRETE SECTION THICKNESS

Subgrade for asphalt concrete and on-grade concrete to receive rare fire truck traffic should be prepared as recommended previously (see “**SITE SUBGRADE PREPARATION RECOMMENDATIONS**”). Subgrade and aggregate base courses shall be firm and unyielding and proof-rolled with a full water truck or equivalent in the presence of the Geotechnical representative prior to placement of the successive structural section course (i.e., aggregate base or asphalt concrete or concrete).

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

Asphalt Concrete Playground Pavement. Asphalt concrete pavement for playground pavement replacement and to receive potential fire truck access to or within playground areas shall, at a minimum, consist of the following:

Pavement Area	Asphalt Concrete Thickness (inches)	Aggregate Base Thickness (inches)
Playground/Fire truck access	2½	4

Aggregate base should be compacted to a minimum of 95 percent of the maximum dry density. The base course should be firm and unyielding when proof-rolled with a full water truck in the presence of the Geotechnical representative prior to asphalt concrete laydown. Asphalt concrete should be compacted to a minimum of 95 percent of the maximum density.

UTILITY TRENCHES AND EXCAVATION

Utility trenches shall be braced or sloped in accordance with the requirements of (Cal) OSHA. Utility trench backfill shall be governed by the provisions of this report relating to minimum compaction recommendations.

Prior to excavation, the grass and root mat shall be stripped and wasted (or set aside for reuse at surface upon completion of backfilling trench) along the trench alignment and in excavation stockpile areas.

Excavations and trenches shall be sufficiently wide to accommodate equipment size needed for proper compaction of bedding, pipe zone and backfill materials. Trench and excavation bottoms shall be excavated to a firm uniform bottom free of loose, disturbed material and observed by the Geotechnical representative prior to placement of bedding. Aggregate base materials may be used as bedding, as required, to mitigate soft, yielding excavation bottoms, where encountered.

Trench backfill shall be moisture conditioned between 0 and 2 percent over optimum moisture content prior to placing in trench. Backfill shall be compacted to a minimum of 90 percent relative compaction as determined from ASTM D1557, and 95 percent within the upper 1 foot of subgrade in pavement or on-grade concrete areas, or within a 1h:1v influence zone of footings¹.

Rock larger than 3 inches in maximum dimension shall be excluded from backfill. Jetting of trench backfill materials shall not be permitted.

Trench backfill materials shall consist of bedding and pipe zone sand placed a minimum thickness of 4 inches below the pipe invert and to a height of 12 inches above the top of the pipe. Bedding and pipe zone sand shall consist of fine to medium or coarse sand with a minimum Sand Equivalent (SE) of 30. General fill or pipe zone sand shall be placed as backfill above the pipe zone in 8-inch loose lifts and compacted to the minimum relative compaction summarized above. General backfill materials shall meet the preceding recommendations of this report, "Fill Placement and Compaction" and "Fill Materials."

CLOSURE

The recommendations in this letter are specific to the scope of the proposed replacement playground asphalt concrete. The presence of hazardous and/or toxic materials is not within the scope of services provided for this study.

We appreciate the opportunity to be of service to Pleasant Valley School District. Please call if you have any questions concerning this letter report.

Sincerely,

Geotechniques



Carole Wockner, P.E.
Principal Engineer
R.C. E. No. 74407, exp 09/30/27

¹ Where this is not feasible because of access constraints or for expediency, a 1½-sack cement and sand slurry may be used.