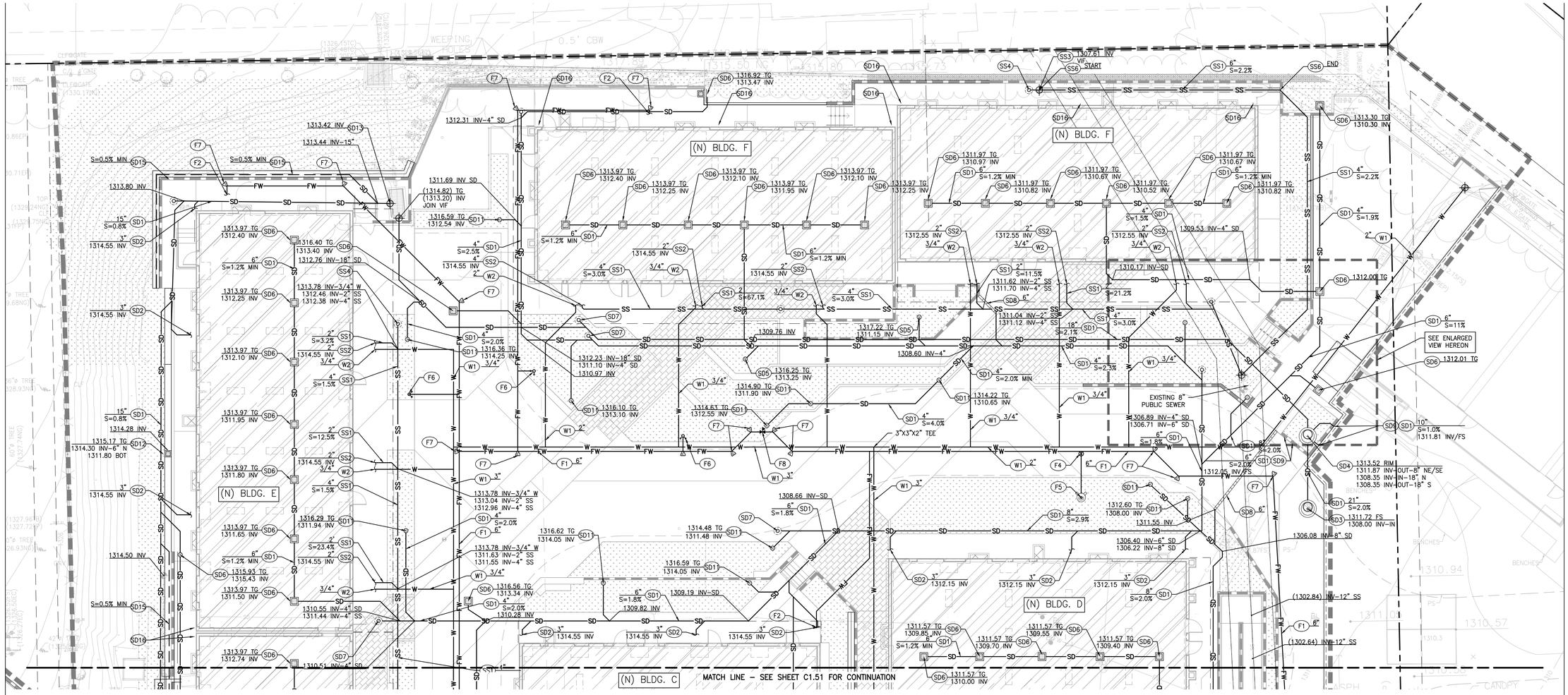


UTILITY CONSTRUCTION NOTES:

STORM DRAIN

- (SD1) PVC SDR-35 STORM DRAIN PIPE PER DETAIL 5, SHEET 5C5.00. SIZE AND SLOPE PER PLAN.
- (SD2) POINT OF CONNECTION WITH BUILDING LATERAL PIPE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (SD3) MAXWELL IV DRYWELL. PER DETAIL 8, SHEET 5C5.02.
- (SD4) CONTECH CDS PRETREATMENT UNIT. PER DETAIL 1, SHEET 5C5.03
- (SD5) AREA DRAIN PER DETAIL 6, SHEET 5C5.00.
- (SD6) JENSEN 12"X12" PRECAST CATCH BASIN.
- (SD7) CLEANOUT PER DETAIL 8, SHEET 5C5.00.
- (SD8) ACO K100 PRECAST HEAVY DUTY TRENCH DRAIN OR APPROVED EQUIVALENT.
- (SD9) STORM DRAIN OVERFLOW OUTLET.
- (SD10) TURF AREA PERFORATED PIPE PER DETAIL 10, SHEET 5C5.01.
- (SD11) PLANTER DRAIN PER DETAIL 9, SHEET 5C5.01.
- (SD12) CONTECH CDS PRETREATMENT UNIT, PER DETAIL 4, SHEET 5C5.03.
- (SD13) CONNECT TO EXISTING STORM DRAIN. VERIFY INVERT IN FIELD.
- (SD14) BACK WATER VALVE & BOX.
- (SD15) PERFORATED PIPE PER DETAIL 7, SHEET 5C5.02 AND THE GEOTECHNICAL REPORT BLDG C D E & F FOR MORE DETAILS.
- (SD16) ABOVEGROUND DOWNSPOUT TO SPILL TO GRADE. SEE PLUMBING FOR CONTINUATION.

SANITARY SEWER

- (SS1) PVC SDR-35 SANITARY SEWER PIPE PER DETAIL 5, SHEET 5C5.00. SIZE AND SLOPE PER PLAN.
- (SS2) POINT OF CONNECTION WITH BUILDING LATERAL PIPE. SEE PLUMBING DRAWINGS AND AMS POINT OF CONNECTION PLAN FOR CONTINUATION.
- (SS3) CONNECT TO EXISTING CAMPUS SEWER LINE. CONTRACTOR TO VERIFY POINT OF CONNECTION INVERT ELEVATION IN FIELD.
- (SS4) CLEANOUT PER DETAIL 8, SHEET 5C5.00.
- (SS5) RELOCATE EXISTING PUBLIC SEWER LINE.
- (SS6) PIPE ENCASEMENT PER DETAIL 3, SHEET 5C5.03.

DOMESTIC WATER

- (W1) PVC SCHEDULE 40 DOMESTIC WATER PIPE PER DETAIL 5, SHEET 5C5.00. SIZE PER PLAN.
- (W2) POINT OF CONNECTION WITH BUILDING LATERAL PIPE. SEE PLUMBING DRAWINGS AND AMS POINT OF CONNECTION PLAN FOR CONTINUATION.
- (W3) CONNECT TO EXISTING CAMPUS WATER LINE.
- (W4) RELOCATED BACKFLOW PREVENTOR.

FIRE WATER

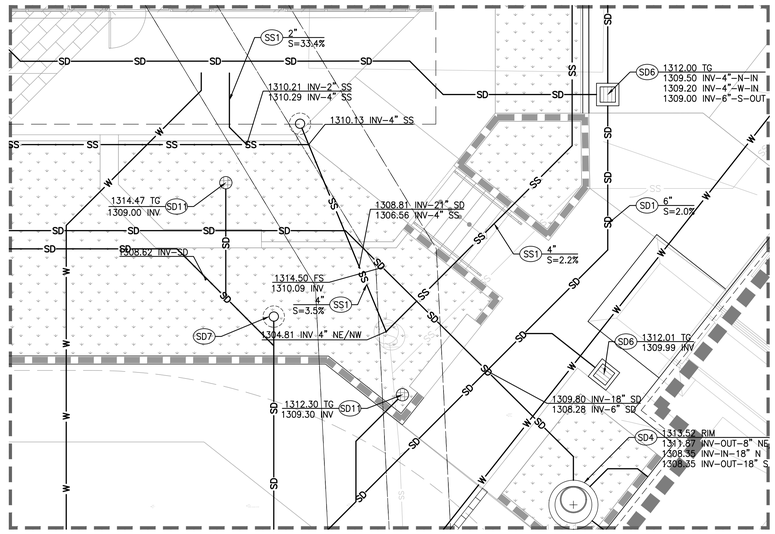
- (F1) PVC C-900 FIRE WATER PIPE PER DETAIL 5, SHEET 5C5.00. SIZE AND MATERIAL PER PLAN.
- (F2) POINT OF CONNECTION TO FIRE RISER. SITE CONTRACTOR TO ROUTE FROM SITE POC TO FIRE RISER.
- (F3) CONNECT TO EXISTING SITE FIRE WATER LINE.
- (F4) GATE VALVE IN VALVE BOX PER DETAIL 2, SHEET 5C5.03.
- (F5) FIRE HYDRANT. INSTALLATION BY VALLEY WATER COMPANY. SHOWN FOR COORDINATION PURPOSES ONLY. SEE DETAIL 7, SHEET 5C5.00.
- (F6) FIRE DEPARTMENT CONNECTION PER DETAIL 6, SHEET 5C5.01.
- (F7) THRUST BLOCK PER DETAIL 7, SHEET 5C5.01 OR SELF RESTRAINING MECHANICAL JOINT.
- (F8) POST INDICATOR VALVE PER DETAIL 1, SHEET 5C5.01.
- (F9) NOT USED.

OTHER UTILITIES

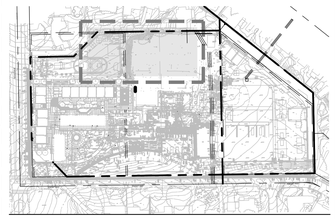
- (U1) ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- (U2) GAS LINE. MATCH EXISTING SIZE AND MATERIAL. PIPE TO MAINTAIN MINIMUM 24" COVER. SHOWN FOR COORDINATION PURPOSES ONLY.
- (U3) GAS LINE POINT OF CONNECTION TO THE EXISTING CAMPUS GAS LINE. VERIFY INVERT IN THE FIELD.
- (U4) ELECTRICAL CONDUIT POINT OF CONNECTION TO EXISTING CAMPUS ELECTRICAL LINE. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. VERIFY INVERT IN FIELD.

LEGEND:

- LIMIT OF WORK
- PROPERTY LINE
- SEE STRUCTURAL DRAWINGS FOR DETAILS. SEE DETAIL 7, SHEET 5C5.02 AND THE GEOTECHNICAL REPORT BLDG C D E & F FOR MORE DETAILS.
- SS — SANITARY SEWER
- W — WATER
- DW — DOMESTIC WATER
- FW — FIRE WATER
- SD — STORM DRAIN
- G — GAS
- E — ELECTRIC
- T — TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT



ENLARGED PLAN VIEW
SCALE: 1" = 5'
SEE SHEET C1.30 FOR OVERALL PLAN



KEY MAP

SCALE: 1"=200'

N

0 5' 10'

SCALE: 1"=10'

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SS ☑ FLS ☑ ACS ☑
DATE: 05/07/2026

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PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HARRY R DRAKE
NO. C-014889
REN. 05-31-27
STATE OF CALIFORNIA

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12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

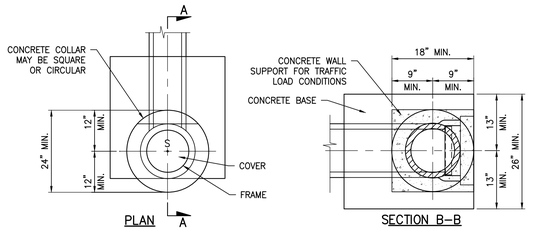
UTILITY PLAN

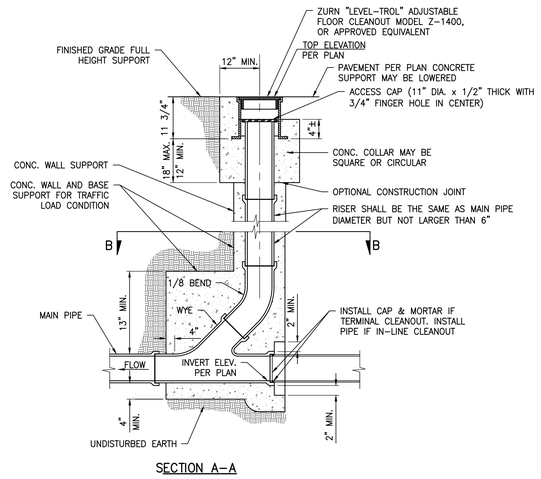
5C1.52

SCALE: AS INDICATED

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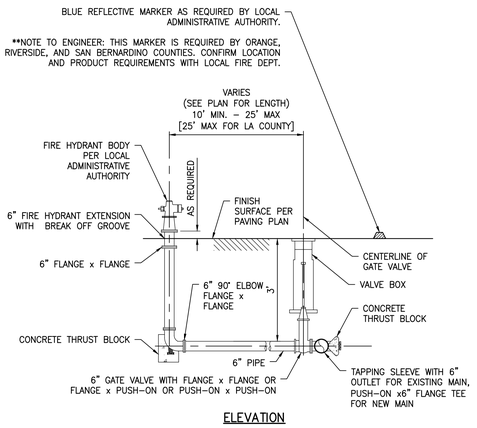




NOTES

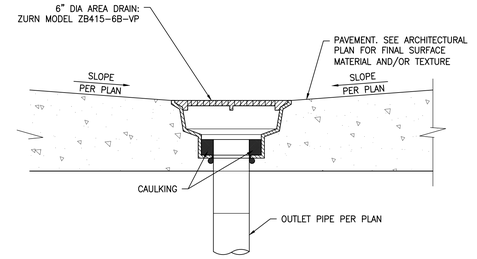
1. SEE PROJECT PLANS FOR INVERT ELEVATION.
2. PIPE AND FITTINGS, EXCEPT AS OTHERWISE SHOWN ON HEREON, SHALL BE OF THE SAME MATERIAL AS THE SEWER, UNLESS APPROVED ADAPTERS ARE UTILIZED AND MAY BE ANY OF THE FOLLOWING:
   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE
3. PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
4. THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OUT OR MAY BE BLOCKED OUT PRIOR TO CASTING; THEY SHALL NOT BE PUNCHED OUT.
5. THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.

8 STANDARD CLEANOUT N.T.S.

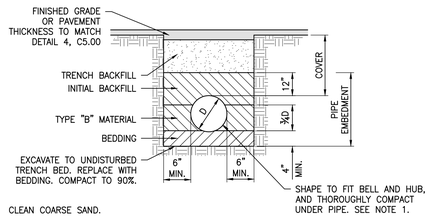


9 NOT USED N.T.S.

7 FIRE HYDRANT ASSEMBLY N.T.S.



6 NON–TRAFFIC AREA DRAIN N.T.S.

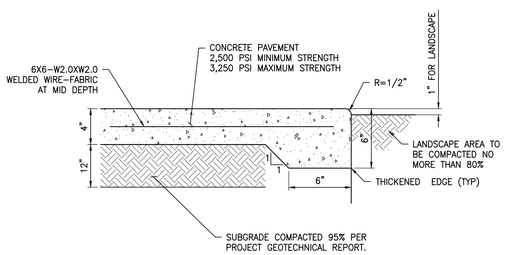


BEDDING	CLEAN COARSE SAND.
CLEAN COARSE SAND	SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200–1.5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION.
INITIAL BACKFILL	NATIVE MATERIAL – MAXIMUM SIZE NOT TO EXCEED 1 1/2".
TRENCH BACKFILL	NATIVE MATERIAL – 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE ML,CL FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE, IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COURSE SAND.
"TYPE" B MATERIAL	SHALL BE ONE OF THE FOLLOWING: 1. NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200–1.2 AND TABLE 200–1.2.1(A) OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". FOR PIPES UP TO AND INCLUDING 15", MAXIMUM ROCK GRADATION SHALL BE ½". FOR PIPES OVER 15", MAXIMUM ROCK GRADATION SHALL BE ¾". 2. CLEAN COARSE SAND.

NOTES:

1. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
2. TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL–SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
3. TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 217–2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

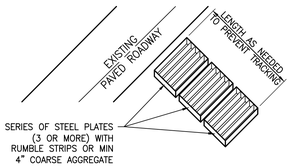
5 FLEXIBLE PIPE BEDDING DETAIL N.T.S.



NOTES:

1. ALL TREAD SURFACES SHALL BE SLIP–RESISTANT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE LANDSCAPE PLAN FOR LOCATION OF CONTROL JOINTS.
4. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2.

4 PEDESTRIAN CONCRETE WALK SECTION N.T.S.



NOTES:

1. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
3. IF A WASH RACK IS INCLUDED, A SEDIMENT TRAP OF SOME KIND MUST ALSO BE PROVIDED TO COLLECT WASH WATER RUNOFF.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE.

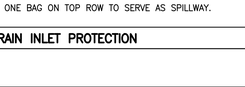
STREET MAINTENANCE NOTES

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM

3 STABILIZED CONSTRUCTION ENTRANCE N.T.S.

SLOPE INCLINATION	MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION)
< 4:1 (H:V)	*20'
4:1–2:1 (H:V)	*15'
> 2:1 (H:V)	*10'

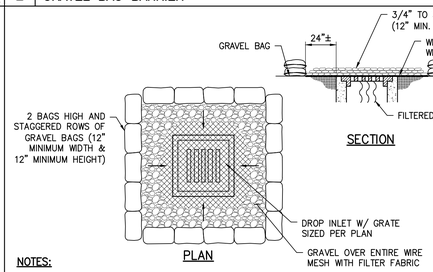
* FIRST ROW NEAR SLOPE TOE



NOTES:

1. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
2. BAG SIZE: EACH GRAVEL–FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
3. FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN–GRADED, NON–COHESIVE, POROUS GRAVEL.
4. TURN THE ENDS OF GRAVEL BAG BARRIER UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND BARRIER.
5. USE PYRAMID APPROACH WHEN STACKING BAGS.

2 GRAVEL BAG BARRIER N.T.S.



NOTES:

1. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED 1/2" x 1/2" WIRE)
2. PLACE FILTER FABRIC OVER WIRE MESH.
3. PLACE 3/4" TO 3" GRAVEL OVER THE FILTER FABRIC/WIRE MESH (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
4. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
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7. USE PYRAMID APPROACH WHEN STACKING BAGS.
8. LEAVE GAP OF ONE BAG ON TOP ROW TO SERVE AS SPILLWAY.

1 STORM DRAIN INLET PROTECTION N.T.S.

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PROFESSIONAL ENGINEER DHUNG S. HUYNH No. 077744 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT HARRY R DRAKE NO. C-014869 REN. 05-31-27 STATE OF CALIFORNIA

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08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

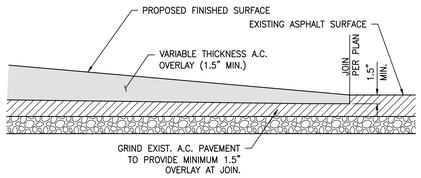
DETAILS

5C5.00

SCALE: AS INDICATED

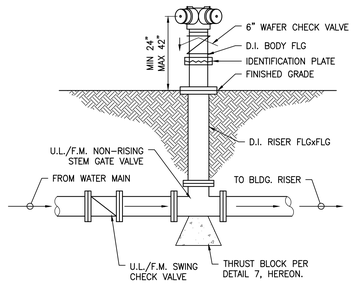
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11 ASPHALT CONCRETE OVERLAY JOIN DETAIL N.T.S.

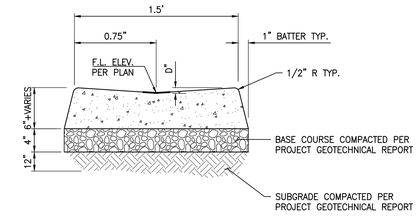
8 NOT USED N.T.S.



NOTES:

1. THE SYSTEM SHALL BE INSTALLED PER N.F.P.A. 13, 14, AND 24 (2013 ED.).
2. THE FDC IS CONCEPTUAL AND SHOWN FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THE FDC OUTLET CONFIGURATION WITH THE FIRE SPRINKLER DRAWINGS.
3. THE FDC SHALL BE PAINTED RED ON ANY EXPOSED SURFACES SUBJECT TO RUST OR CORROSION. COUPLING THREADS, OPERATION MECHANISMS, ANY COMPONENTS OR PORTION OF THE VALVE WHERE THE APPLICATION OF PAINT WOULD VIOLATE THE LISTING OR HINDER ITS OPERATION SHALL NOT BE PAINTED.
4. SIGN SHALL BE METAL, RAISED LETTERS MINIMUM 1" IN SIZE AND SHALL BE PERMANENTLY BANDED TO THE VALVE READING "FDC". SIGN SHALL BE ESCUTCHEON PLATE MARKING "AUTO SPKR." SIGN SHALL INDICATE THE STREET ADDRESS AND NAMES OF BUILDING SERVED. SIGNS SHALL BE PROVIDED AS OUTLINED IN THE LOS ANGELES COUNTY FIRE CODE, SECTION 912.5 SIGNS.

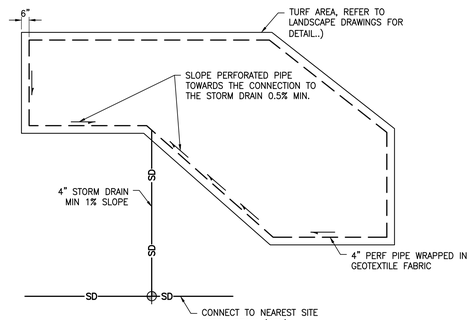
6 FIRE DEPARTMENT CONNECTION ASSEMBLY N.T.S.



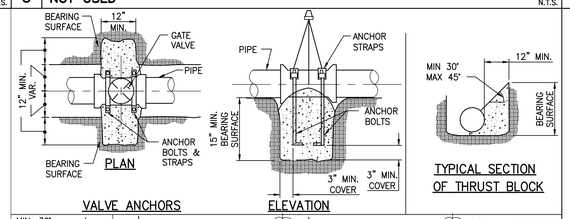
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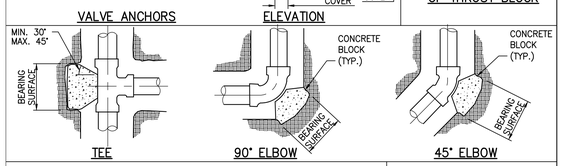
1. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED.
2. CONTROL JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 10' INTERVALS O.C.
3. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2.

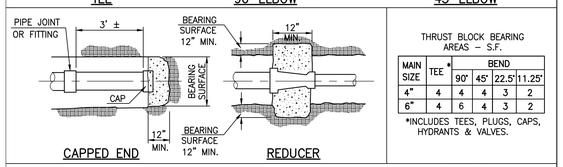
3 CONCRETE VALLEY GUTTER N.T.S.



10 TYPICAL TURF AREA PERFORATED PIPE DETAIL N.T.S.



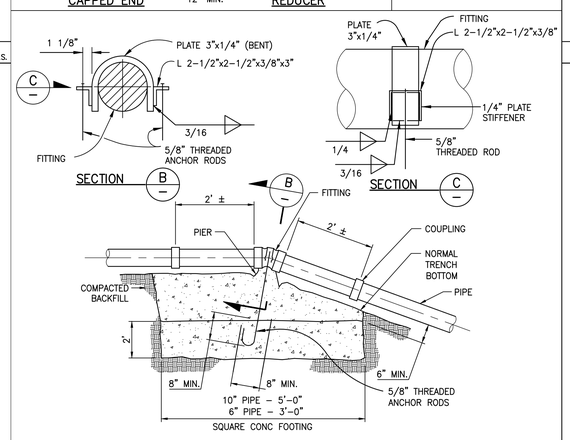




THRUST BLOCK BEARING AREAS – S.F.

MAIN SIZE	TEE *	BEND			
		90°	45°	22.5°	11.25°
4"	4	4	4	3	2
6"	4	6	4	3	2

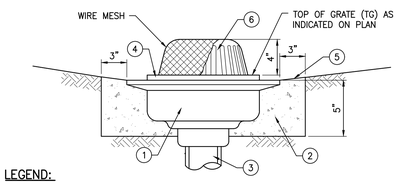
*INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES.



GENERAL NOTES:

1. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
3. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 5/8" DIA. & ANCHOR STRAPS SHALL BE 3"X1/4".
4. THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 150 P.S.I., AND A MINIMUM ALLOWABLE SOIL BEARING VALUE OF 1500 P.S.F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS, BASED UPON N.F.P.A. 24.
5. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1.5 TO 1.

7 THRUST AND ANCHOR BLOCK DETAILS N.T.S.

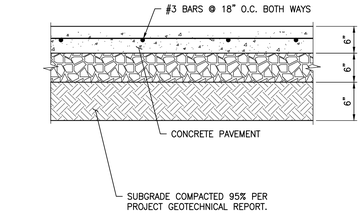


LEGEND:

1. GALVANIZED CAST IRON BODY AND GRATE AREA DRAIN.
2. 2,500 PSI PORTLAND CEMENT CONCRETE PAD (PAD MAY BE EITHER ROUND OR SQUARE IN PLAN VIEW).
3. OUTLET PIPE TO MATCH PIPE SIZE PER PLAN.
4. TOP OF DRAIN ELEVATION PER PLAN.
5. FINISH GRADE PER PLAN.
6. DOME TOP WHERE INDICATED ON PLAN (SEE TABLE BELOW)

SIZE	TYPE	ITEM DESCRIPTION	MODEL NO.	FREE AREA (SQ IN)
6" DIA.	DOME	JAY R. SMITH MFG. CO.	2671-U-G	25
6" DIA.	DOME	ZURN PLUMBING PRODUCTS	Z415-VP-G	12
12" DIA.	DOME	ZURN PLUMBING PRODUCTS	Z121-VP-G	78
12" DIA.	DOME	JAY R. SMITH MFG. CO.	2675-G	53

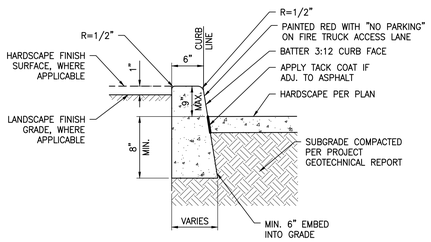
9 PLANTER DRAIN DETAIL N.T.S.



NOTES:

1. PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.
2. REFER TO ARCHITECTURAL PLANS FOR CONCRETE COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.
4. ALL ROCKS LARGER THAN 3" IN DIMENSION SHALL BE REMOVED FROM SUBGRADE DURING PROCESSING, PER GEOTECHNICAL REPORT.
5. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2.

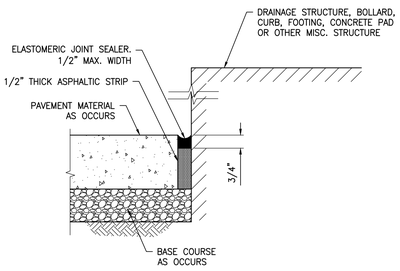
5 REINFORCED VEHICULAR CONCRETE PAVEMENT N.T.S.



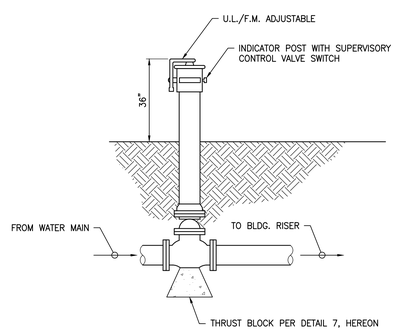
NOTES:

1. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED.
2. CONTROL JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 10' INTERVALS O.C.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.
4. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2.

4 CONCRETE CURB N.T.S.



2 ISOLATION JOINT AT STRUCTURE N.T.S.



NOTES:

1. THE SYSTEM SHALL BE INSTALLED PER N.F.P.A. 24.
2. THE CONTRACTOR SHALL COORDINATE VALVE LAYOUT WITH FIRE SPRINKLER PLANS.

1 POST INDICATOR VALVE N.T.S.

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DATE: 05/07/2026

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PROFESSIONAL ENGINEER HARRY R. DHUNG No. 077744 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT HARRY R. DRAKE NO. C-014869 REN. 05-31-27 STATE OF CALIFORNIA

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ISSUE DATE	DESCRIPTION
04/19/2024	100% SCHEMATIC DESIGN
07/05/2024	50% DESIGN DEVELOPMENT
08/16/2024	100% DESIGN DEVELOPMENT
04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

DETAILS

5C5.01

SCALE: AS INDICATED

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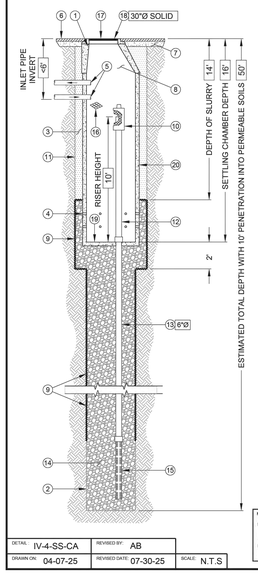
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The MaxWell® IV

DRAINAGE SYSTEM DETAILS AND SPECIFICATIONS

Paradise Canyon Elementary Ph 5

DW 1



ITEM NUMBERS

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **MIN 4' Ø DRILLED SHAFT.**
3. **STABILIZED BACKFILL** - TWO-SACK SLURRY MIX.
4. **6 PERFORATIONS MINIMUM PER ROW, 2 ROWS MINIMUM.**
5. **INLET PIPE/OUTLET PIPE (BY OTHERS).** SEE SEPARATE PLAN FOR INVERT ELEVATIONS.
6. **GRADED BASIN OR PAVING** (BY OTHERS).
7. **COMPACTED BASE MATERIAL**, IF REQUIRED (BY OTHERS).
8. **FREEBOARD DEPTH VARIES** WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE RISER PIPE.
9. **NON-WOVEN GEOTEXTILE SLEEVE** - MIRAFI 140 NL. MIN. 6 FT Ø. HELD APPROX. 10 FEET OFF THE BOTTOM OF EXCAVATION.
10. **PUREFLO® DEBRIS SHIELD** - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. **FUSION BONDED EPOXY COATED.**
11. **MIN. 6' Ø DRILLED SHAFT.**
12. **RISER PIPE** - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
13. **DRAINAGE PIPE** - ADS HIGHWAY GRADE OR SCH. 40 PVC WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS. DIAMETER AS NOTED.
14. **ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2".
15. **FLOFAST® DRAINAGE SCREEN** - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH MIN. 32 SLOTS PER ROW/FT. OVERALL LENGTH VARIES, UP TO 120" WITH TRI-B COUPLER.
16. **ABSORBENT** - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY. TYPICAL, 2 PER CHAMBER.
17. **FABRIC SEAL** - U.V. RESISTANT GEOTEXTILE - **TO BE REMOVED BY CUSTOMER** AT PROJECT COMPLETION. GRATED ONLY.
18. **BOLTED RING & GRATE/COVER** - DIAMETER & TYPE AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURE TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
19. **BASE SEAL** - CONCRETE SLURRY.
20. **PRE-CAST LINER** - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.

NOTE: DETAIL TO BE USED IN CONJUNCTION WITH THE MAXWELL SIZING SUMMARY. CUSTOMIZATION OF THIS SYSTEM WILL REQUIRE APPROVAL FROM THE CIVIL ENGINEER ON RECORD AND UPDATED SIZING FROM TORRENT RESOURCES.

DETAIL: IV-4-SS-CA	REVISED BY: AB	
DRAWN ON: 04-07-25	REVISED DATE: 07-30-25	SCALE: N.T.S

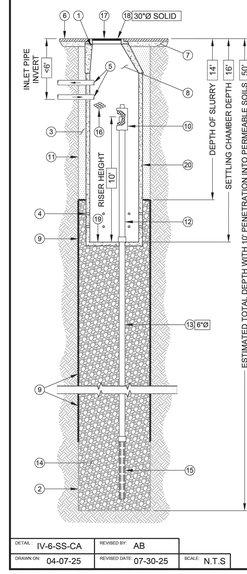
TorrentResources — A CBN COMPANY
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Installing MaxWells SINCE 1972
909-829-0740

The MaxWell® IV

DRAINAGE SYSTEM DETAILS AND SPECIFICATIONS

Paradise Canyon Elementary Ph 5

DW 2



ITEM NUMBERS

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **MIN 6' Ø DRILLED SHAFT.**
3. **STABILIZED BACKFILL** - TWO-SACK SLURRY MIX.
4. **6 PERFORATIONS MINIMUM PER ROW, 2 ROWS MINIMUM.**
5. **INLET PIPE/OUTLET PIPE (BY OTHERS).** SEE SEPARATE PLAN FOR INVERT ELEVATIONS.
6. **GRADED BASIN OR PAVING** (BY OTHERS).
7. **COMPACTED BASE MATERIAL**, IF REQUIRED (BY OTHERS).
8. **FREEBOARD DEPTH VARIES** WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE RISER PIPE.
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13. **DRAINAGE PIPE** - ADS HIGHWAY GRADE OR SCH. 40 PVC WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS. DIAMETER AS NOTED.
14. **ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2".
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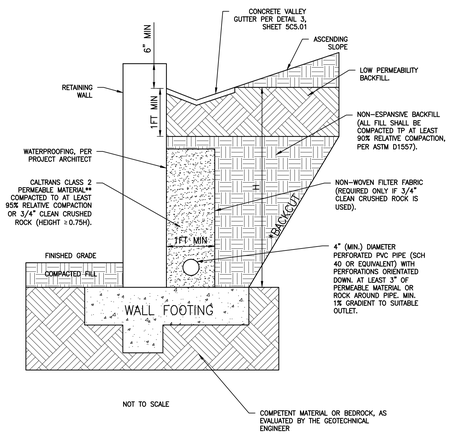
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DRAWN ON: 04-07-25	REVISED DATE: 07-30-25	SCALE: N.T.S

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8 MAXWELL IV DRYWELL

N.T.S.

FREEBOARD AND SWALE DRAINAGE RECOMMENDATIONS



**SPECIFICATIONS FOR CALTRANS CLASS 2 PERMEABLE MATERIAL

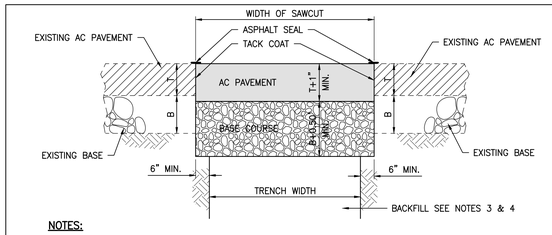
*ALL BACKCUTS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS, UNLESS SITE-SPECIFIC BACKCUT AND BACKFILL RECOMMENDATIONS ARE MADE BY THIS OFFICE.

NOTES:

1. REFER TO THE GEOTECHNICAL REPORT BLDG C D E & F AND STRUCTURAL DRAWINGS FOR MORE DETAILS.
2. FOR GEOTECHNICAL RECOMMENDATIONS, PLEASE REFERENCE THE REVISED RETAINING WALL DRAINAGE RECOMMENDATIONS FILE

7 WALL DRAINAGE

N.T.S.



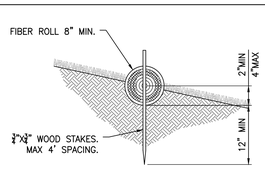
NOTES:

1. DURING EXCAVATION AND SUBGRADE PREPARATION, THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THE PROTECTION OF ALL IMPROVEMENTS, WHETHER PUBLIC OR PRIVATE, INCLUDING UTILITIES AND THEIR SERVICES, FROM ANY DAMAGE THAT COULD OCCUR DUE TO CONTRACTOR'S CONSTRUCTION ACTIVITIES.
2. BACKFILL AND DENSIFICATION SHALL BE DONE IN CONFORMANCE WITH SUBSECTION 306-1.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION, EXCEPT AS FOLLOWS:

   A) IF NOT OTHERWISE SPECIFIED, TRENCH BACKFILL SHALL BE DENSIFIED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.
3. TEMPORARY PAVEMENT RESURFACING SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. IT SHALL BE PLACED LEVEL WITH THE EXISTING PAVEMENT ON COMPACTED TRENCH BACKFILL, SHALL BE A MINIMUM OF 2" THICK, AND PLACED PER SSPWC 306-1.5.1.
4. PERMANENT PAVEMENT RESURFACING SHALL BE DONE WITHIN TWO (2) WEEKS AFTER BACKFILLING OF TRENCHES HAS BEEN COMPLETED, ONLY AFTER SETTLEMENT HAS TAKEN PLACE AND THE FILL SURFACE HAS SUFFICIENTLY DRIED. ALL CUTS SHALL BE GROOMED CLEAN AND STRAIGHT.
5. CONTACT SURFACES OF EXISTING PAVEMENT, MANHOLE FRAMES AND SHAFTS AND CONCRETE SURFACES SHALL HAVE A TACK COATING APPLIED BEFORE PERMANENT ASPHALT RESURFACING IS PLACED.
6. ASPHALT CONCRETE PAVEMENT SHALL BE AS SPECIFIED.

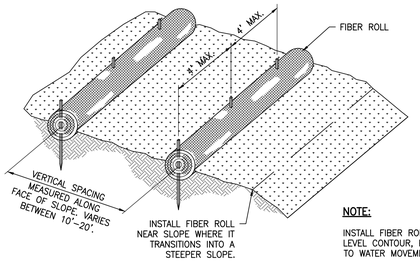
6 ASPHALT CONCRETE PAVEMENT TRENCH RESURFACING

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.



NOTE:

INSTALL FIBER ROLL ALONG A LEVEL CONTOUR, PERPENDICULAR TO WATER MOVEMENT.

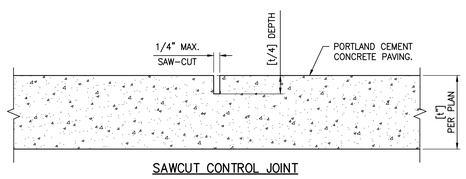
TYPICAL FIBER ROLL INSTALLATION DETAIL

N.T.S.

SLOPE INCLINATION	MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION)
< 4:1 (H:V)	20'
4:1-2:1 (H:V)	15'
> 2:1 (H:V)	10'

3 FIBER ROLL

N.T.S.



SAWCUT CONTROL JOINT

NOTES:

1. CONTROL JOINTS SHALL BE CONSTRUCTED PER S.S.P.W.C.
2. CONSTRUCT CONTROL JOINTS WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

5 CONTROL JOINT FOR CONCRETE PAVEMENT

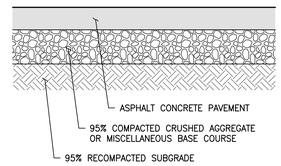
N.T.S.

4 NOT USED

N.T.S.

2 NOT USED

N.T.S.



TRAFFIC INDEX (TI)	PAVEMENT SECTION (THICKNESS IN INCHES)	
	ASPHALT CONCRETE	BASE COURSE
4	3.0	4.5
5	3.0	5.5
6	4.0	7.0
7	4.5	8.5

NOTE:

1. PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.

1 ASPHALT PAVEMENT SECTION

N.T.S.

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O: 213.418.0201
www.kpff.com

PROFESSIONAL ENGINEER — SHUO DHUNG — No. 077744 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT — HARRY R DRAKE — NO. C-014869 REN. 05-31-27 — STATE OF CALIFORNIA

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ISSUE DATE	DESCRIPTION
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08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

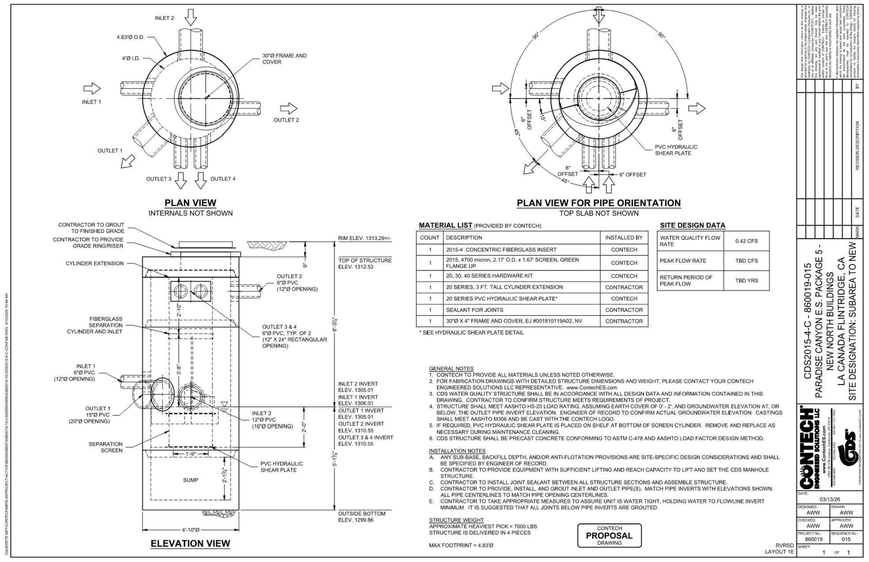
DETAILS

5C5.02

SCALE: AS INDICATED

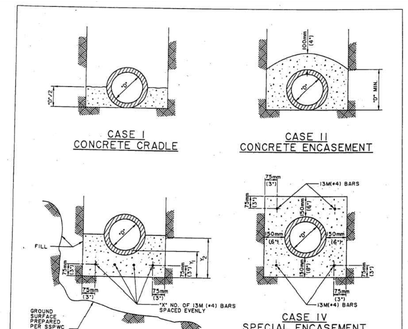
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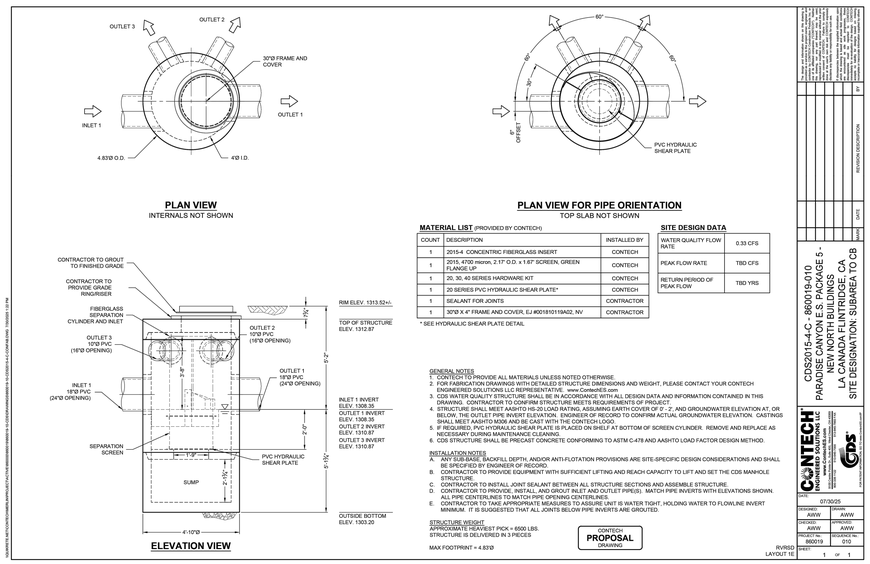


4 | CDS UNIT 2 N.T.S.

2 | WATER VALVE AND VALVE BOX N.T.S.



3 | PIPE ENCASEMENT N.T.S.



1 | CDS UNIT N.T.S.

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APP: 03-125476 INC:
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PROFESSIONAL ENGINEER HARRY R DHUNG No. C77744 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT HARRY R DHUNG NO. C-014869 REN. 05-31-27 STATE OF CALIFORNIA

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07/05/2024 50% DESIGN DEVELOPMENT
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08/06/2025 DSA V1
12/05/2025 DSA V2
03/20/2026 DSA V3

REVISION DATE DESCRIPTION

DRAWING TITLE

DETAILS

5C5.03

SCALE: AS INDICATED

STRUCTURAL TESTS AND SPECIAL INSPECTIONS

1. STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17A OF THE CODE.
2. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY DIVISION OF THE STATE ARCHITECT (DSA), IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
3. THE SPECIAL INSPECTORS AND TESTING FIRM MUST BE HIRED BY THE OWNER OR OWNER'S REPRESENTATIVE.
4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE DSA, OWNER, AND STRUCTURAL ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS, OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE DSA, COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION), AND WITH CHAPTER 22A OF THE CODE.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

ALL W AND WT SHAPES	A992 OR A572, GRADE 50
PLATES, CONNECTION PLATES, AND MISC	A36 UNO (A572 GR50 OPTIONAL)
ROUND SECTIONS	A500, GRADE C, Fy = 46 KSI
SQUARE / RECTANGULAR SECTIONS	A500, GRADE C, Fy = 50 KSI
HIGH STRENGTH BOLTS (TYP FOR CONNECTIONS, UNO)	F3125, GRADE A325-N
ANCHOR BOLTS IN CONCRETE	A36 THREADED RODS F1554 GR 36, ANCHOR RODS UNO
COMMON/MACHINE BOLTS	A307, GR A
ANGLES, CHANNELS	A36

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS AND STRUCTURAL ENGINEERS REVIEW BEFORE FABRICATION.
4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, OR SPRAY ON FIREPROOFING SHALL BE LEFT UNPAINTED.
6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1:1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.
7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION 15TH EDITION, SECTION J2.2b.
8. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, UNLESS CALLED OUT TO BE PAINTED ON THE CONSTRUCTION DOCUMENTS. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH / COLD GALVANIZING. REFER TO ARCH DRAWINGS FOR STEEL FINISH.
9. THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELD FILLER METAL SHALL BE OF THE LOW HYDROGEN TYPE AND SHALL HAVE A MINIMUM CHARPY V-NOTCH (CVN) VALUE OF 20 FT-LBS AT A TEMPERATURE OF 0°F.
10. FOR ALL STRUCTURAL STEEL THAT IS TO REMAIN EXPOSED AND VISIBLE PER THE ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL GRIND SMOOTH ALL EXPOSED GROOVE WELDS AND SHALL COMPLY WITH THE SPECIFICATIONS FOR (AESS) ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FOUND ON THE AISC CODE OF STANDARD PRACTICE.
11. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATIONS OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW TO THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER DSA-103 FORM, SPECIFICATIONS, AND AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED ZEWELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.
12. ALL FLARE BEVEL WELDS SHALL BE OF SUFFICIENT SIZE TO PROVIDE EFFECTIVE THROAD OF (5/16) x RADIUS.
13. NELSON STUDS SHALL BE PER ESR-2856 AND SHALL BE GRADE A706.

REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19A OF THE CODE, ASTM A615, GRADE 60 UNO. DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60.
2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS REQUIRED FOR CLASS B SPLICES PER ACI 318 SECTION 25.5.2 UNO. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
4. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
5. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING APPROVED ELECTRODES. WELDER SHALL BE APPROVED BY DSA. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE-REINFORCING STEEL AWS-D1.4, LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.
6. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
7. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," LATEST EDITION.
8. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.
9. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
10. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
11. CONCRETE PROTECTION FOR REINFORCEMENT:
(I)CAST IN PLACE CONCRETE (NON-PRESTRESSED). THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

		MINIMUM COVER, IN.
A.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B.	CONCRETE EXPOSED TO EARTH OR WEATHER:	
	NO. 6 THROUGH NO. 18 BAR	2
	NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1 1/2
C.	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
	SLABS, WALLS, JOISTS:	
	NO. 14 AND NO. 18 BAR	1 1/2
	NO. 11 BAR AND SMALLER	3/4
	BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	1 1/2

12. TESTS OF REINFORCING BARS ARE EXEMPT FOR ALL SITE CONCRETE PER CBC SECTION 1910A.2

FOUNDATION

1. FOUNDATION DESIGN BASED ON THE SOILS REPORT BY ALLAN E. SEWARD ENGINEERING GEOLOGY, INC DATED JUNE 19, 2024. (PROJ NO. 24-2775-6)
2. RETAINING WALL FOUNDATIONS WILL BEAR ON COMPACTED FILL AND ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:

ALLOWABLE BEARING*	=	2,000 PSF
PASSIVE EARTH PRESSURE*	=	200 PCF; 2,000 PSF MAX
COEFFICIENT OF FRICTION	=	0.3 (MAY BE COMBINED WITH PASSIVE WITH NO REDUCTION)
EQUIVALENT FLUID PRESSURE	=	38 PCF; UNRESTRAINED WALLS (SOIL ACTIVE), LEVEL BACKFILL
	=	58 PCF; RESTRAINED WALLS (SOIL AT REST), LEVEL BACKFILL
	=	60 PCF; UNRESTRAINED WALLS (SOIL ACTIVE), 2:1 BACKFILL
	=	80 PCF; RESTRAINED WALLS (SOIL AT REST), 2:1 BACKFILL

* ALLOWABLE BEARING AND PASSIVE PRESSURE MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC LOAD CASES WHEN ALTERNATE BASIC LOAD COMBINATIONS ARE USED.

FOOTINGS SHALL BEAR ON A MINIMUM COMPACTED FILL PER 6/5SS5.1. MINIMUM DEPTH OF FOOTINGS BELOW LOWEST ADJACENT FINAL GRADE WILL BE 24".

MINIMUM WIDTH OF FOOTING SHALL BE 24". THE ALLOWABLE BEARING PRESSURE NOTED ABOVE MAY BE INCREASED BY 250 PSF FOR EVERY ADDITIONAL FOOT OF WIDTH OF THE FOUNDATIONS, TO A MAXIMUM VALUE OF 2,500 PSF.

3. RETAINING WALL LIVE LOAD SURCHARGE

TRAFFIC LOADS*	=	250 PSF
	=	83.3 PSF; WHEN APPLIED WITHIN 1:1 (H:V) PROJECTION FROM THE BASE OF THE WALL
	=	0 PSF; WHEN APPLIED BEYOND 2:1 (H:V) PROJECTION FROM THE BASE OF THE WALL
PEDESTRIAN LOADS*	=	100 PSF
	=	33.3 PSF; WHEN APPLIED WITHIN 1:1 (H:V) PROJECTION FROM THE BASE OF THE WALL
	=	0 PSF; WHEN APPLIED BEYOND 2:1 (H:V) PROJECTION FROM THE BASE OF THE WALL

* LINEAR INTERPOLATION ALLOWED IN BETWEEN THE TWO CASES

4. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, IF REQUIRED.
5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
6. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT A LETTER OF COMPLIANCE.
7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTORS SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
8. FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESES DEPTHS NOT BE APPROVED BY THE INSPECTOR OF SOILS ENGINEER, FOUNDATION ELEVATIONS / DIMENSIONS MAY NEED TO BE MODIFIED BY THE ENGINEER.
9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE SOILS ENGINEER REPRESENTATIVE PER CBC SECTION 1705A6.1.
10. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED UNLESS NOTED OTHERWISE. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS OR FOUNDED ON STRUCTURALLY CERTIFIED FILL PER THE SOILS REPORT.

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING FABRICATION AND CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2022 CALIFORNIA BUILDING CODE REFERRED TO HERE AS "THE CODE" AND ANY OTHER REGULATING AGENCIES WHICH HAVE LOCAL AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE DIVISION OF INDUSTRIAL SAFETY AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   a. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   e. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   c. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
8. OPENINGS, POCKETS, ETC., SHALL BE BROUGHT TO THE ATTENTION OF THE SEOR PRIOR TO THE START OF WORK. IN NO CASE SHALL OPENINGS OR PENETRATIONS LARGER THAN 4" BE PLACED IN CONCRETE SLABS OR WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 4" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS.
9. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST YEAR ADOPTED BY CHAPTER 35 OF THE CODE.

DESIGN LOADS

1. LIVE LOADS:
   RETAINING WALL LIVE LOAD SURCHARGE
   SURCHARGE LOADS PER SOILS REPORT (SEE FOUNDATION GENERAL NOTES)
   PEDESTRIAN LOADS = 100 PSF
2. WIND LOADS:
   WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609A OF THE CODE AND CHPT 26 OF ASCE 7-16.
   V = 95 MPH (WIND SPEED)
   EXPOSURE CATEGORY C
3. EARTHQUAKE LOADS
   EARTHQUAKE LOADS ARE IN ACCORDANCE WITH SECTION 1613A OF THE CODE AND CHPT 15 OF ASCE 7-16.
   SITE CLASS D
   S_{DS} = 1.278g S_{D1} = 1.223g
   S_S = 1.917g S_1 = 0.719g

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CODE.
2. REINFORCED CONCRETE WAS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD."
3. CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON SECTION 4 OF ACI 301.
4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTH AND TYPES (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	SLUMP (IN ±1)	WATER CEMENT RATIO MAX
SITE STRUCTURES	3000 @ 28 DAYS	145	4	0.45

5. TYPICAL PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. PORTLAND CEMENT IN CONCRETE IN CONTACT WITH EARTH SHALL CONFORM TO ASTM C-150, TYPE II.
6. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. AGGREGATE SHALL BE NONREACTIVE WHEN TESTED FOR ALKALI REACTIVITY AS DETERMINED BY THE METHODS IN ASTM C-33 APPENDIX XI.
7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
8. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 4 OF ACI 301 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
9. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE DETAILS IN STRUCTURAL DRAWINGS FOR ADDITIONAL RESTRICTIONS OF THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
11. PIPES/CONDUIT SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS, SPACE EMBEDDED PIPES AND SLEEVES AT A MINIMUM OF 3 DIAMETERS.
12. FLY ASH SHALL BE CLASS F AND CONFORM TO THE REQUIREMENTS OF ASTM C618 AND CBC SECTION 1903A.6.

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SS3.1	STRUCTURAL SITE DETAILS
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SS5.2	STRUCTURAL CONCRETE DETAILS
SS6.0	EQUIPMENT ANCHORAGE DETAILS
SS6.1	EQUIPMENT ANCHORAGE DETAILS

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER — ALLAN R. DRUCE — 24399 — STRUCTURAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — HENRY R. DRAKE — NO. C-014869 REN. 05-31-27 — STATE OF CALIFORNIA

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STRUCTURAL GENERAL NOTES

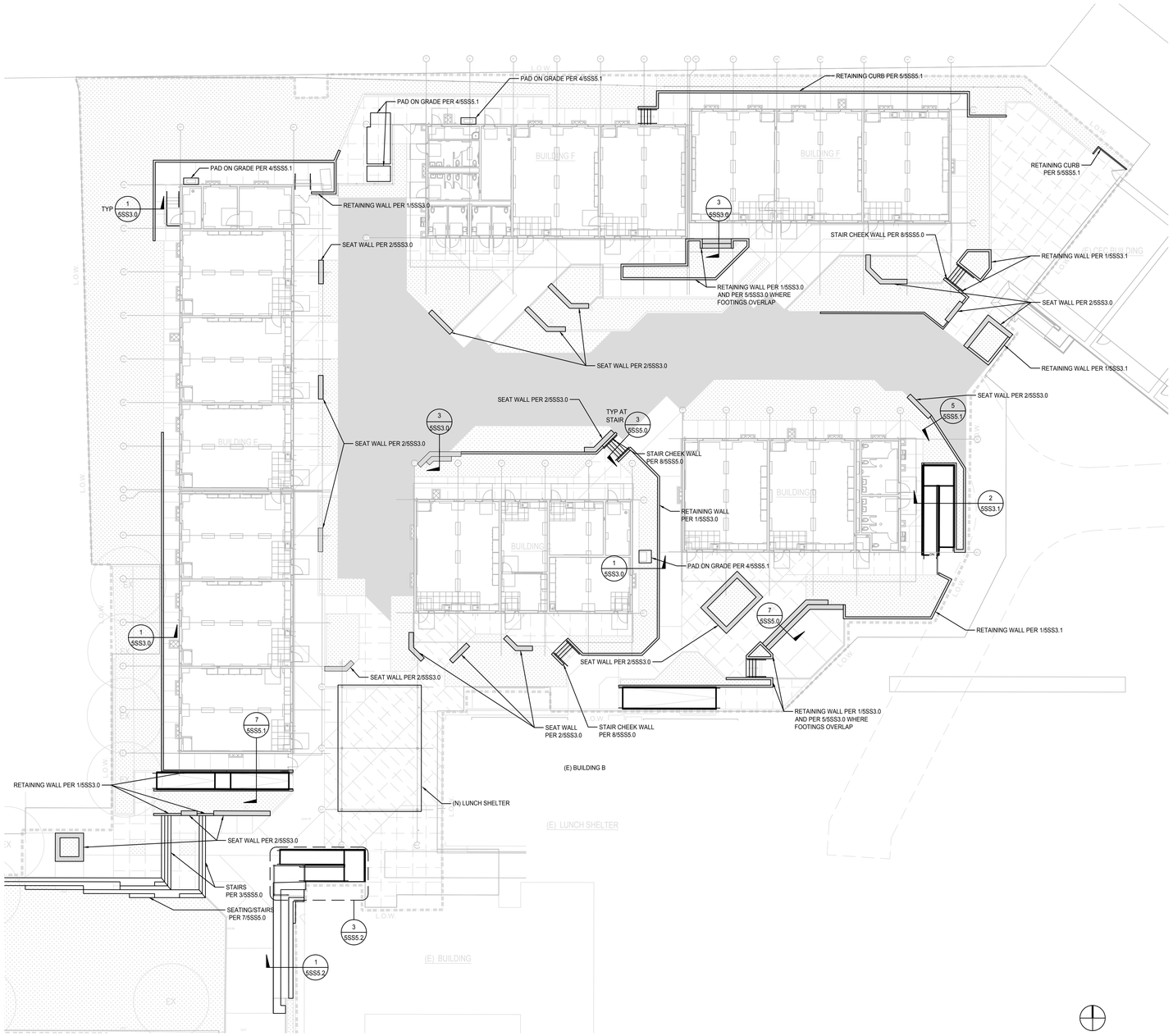
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SCALE As indicated

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1 STRUCTURAL SITE PLAN
1/16"=1'-0"

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PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER
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54399
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
HARRY R. DRAKE
NO. C-014869
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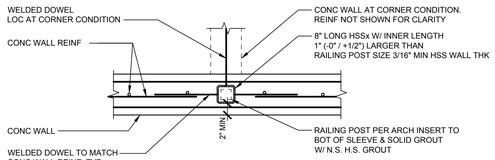
STRUCTURAL SITE PLAN

5SS2.0

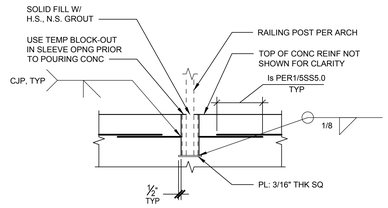
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PLOT DATE 7/31/2024 10:13:04 AM

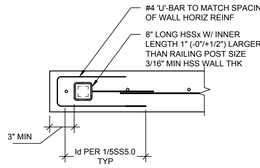
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4A INTERMEDIATE OR CORNER POST - PLAN VIEW



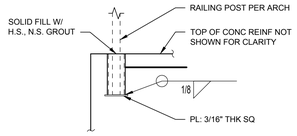
4B SINGLE REINF LAYER AT SLEEVE



NOTE:

FOR BALANCE OF INFO SEE A/-.

4C END POST - PLAN VIEW



NOTE:

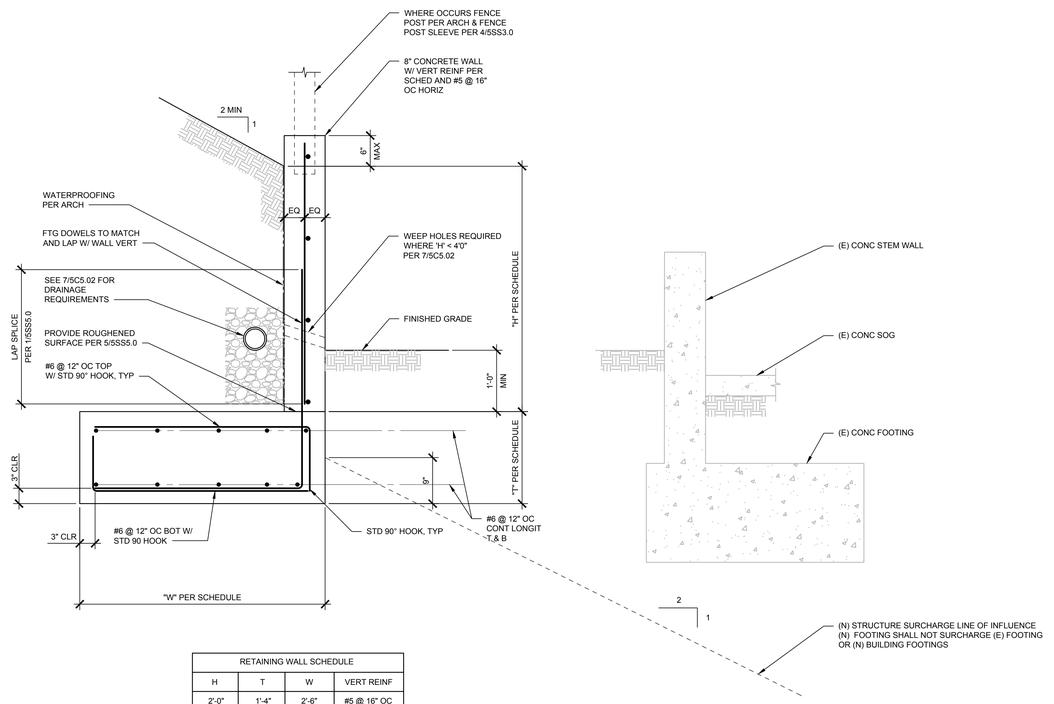
FOR BALANCE OF INFO SEE B/-.

4D END POST - ELEV VIEW

NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

4 FENCE POST SLEEVE

SCALE: 1"=1'-0"

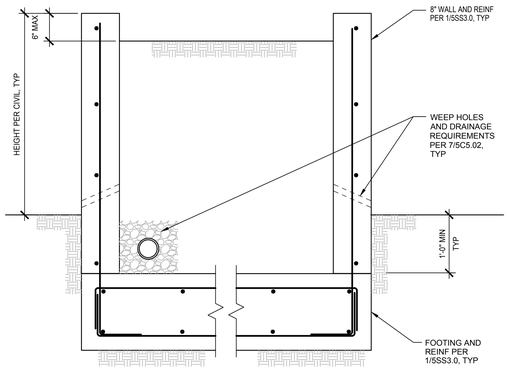


RETAINING WALL SCHEDULE			
H	T	W	VERT REINF
2'-0"	1'-4"	2'-6"	#5 @ 16" OC
4'-0"	1'-4"	4'-6"	#5 @ 16" OC
6'-0"	1'-6"	7'-0"	#7 @ 16" OC

NOTE:
1. SEE DETAIL 6/5SS5.1 FOR OVER EXCAVATION REQUIREMENTS.
2. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

1 TYPICAL RETAINING WALL DETAIL

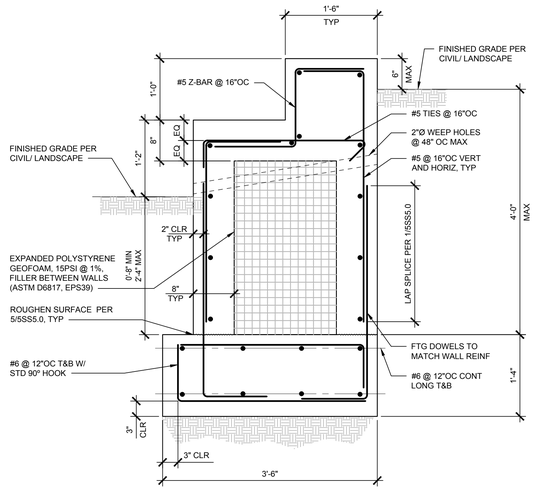
SCALE: 1"=1'-0"



NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

5 COMBINED FOOTING AT OPPOSING RETAINING WALLS

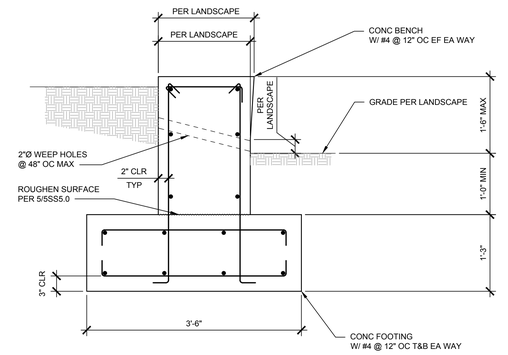
SCALE: 1"=1'-0"



NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

3 TIERED SEAT WALL

SCALE: 1"=1'-0"



NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

2 CONCRETE BENCH DETAIL

SCALE: 1"=1'-0"

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Plotted: 3/17/26 at 9:05am By: krose
XREFs: 2108853 – xref – Notebook – 30x42 – ePlot5.dwg

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER
OLIVER N. ORTE
No. S-6399
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
HENRY R. DRAKE
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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ISSUE DATE	DESCRIPTION
04/19/2024	100% SCHEMATIC DESIGN
07/05/2024	50% DESIGN DEVELOPMENT
08/16/2024	100% DESIGN DEVELOPMENT
04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

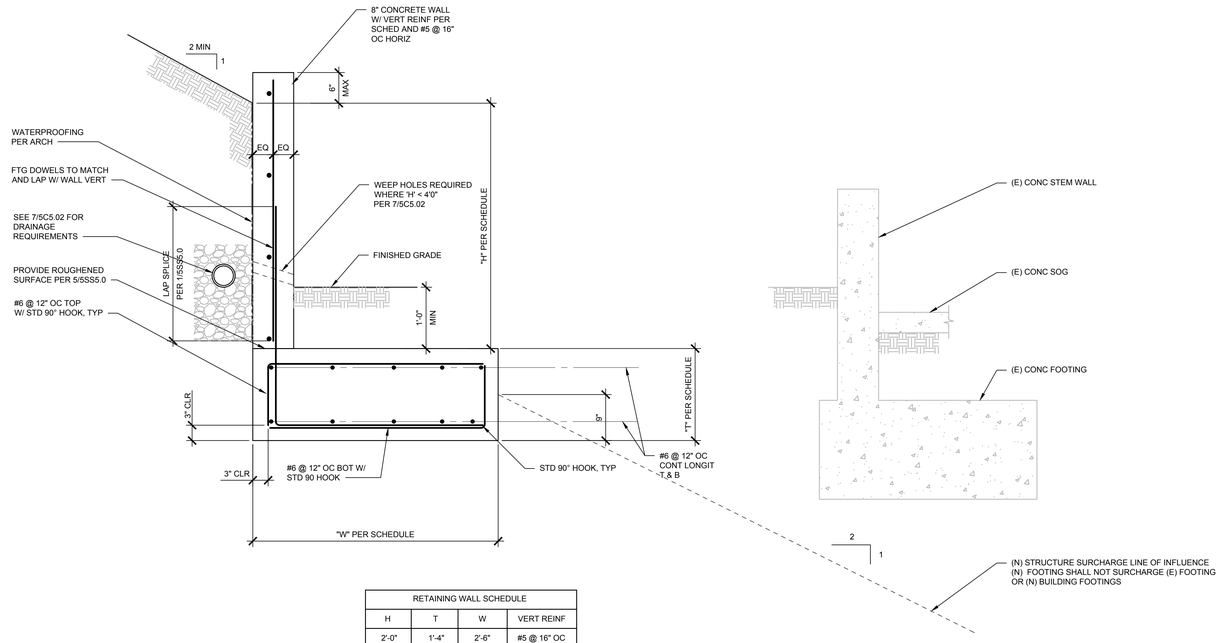
DRAWING TITLE

STRUCTURAL SITE DETAILS

5SS3.0

SCALE As indicated

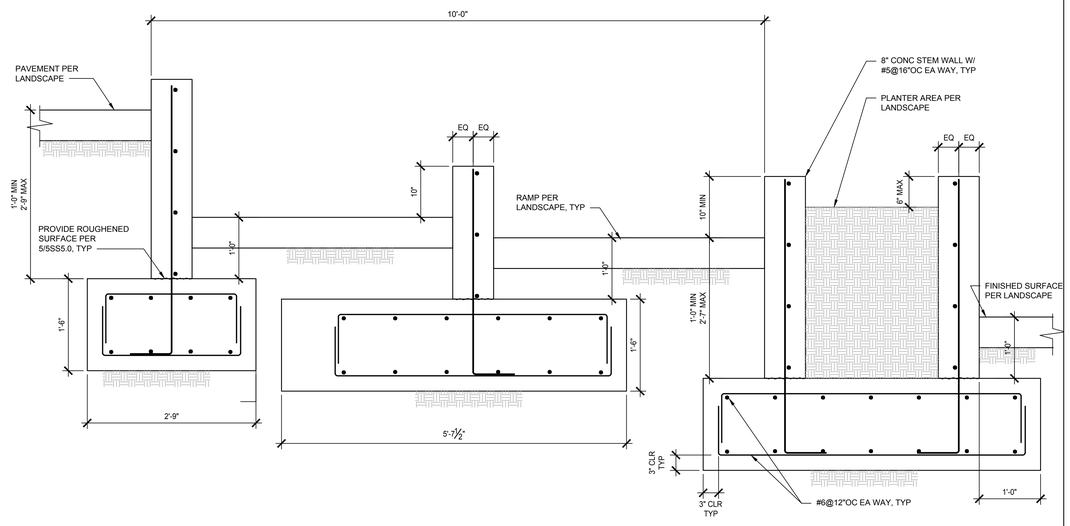
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RETAINING WALL SCHEDULE			
H	T	W	VERT REINF
2'-0"	1'-4"	2'-6"	#5 @ 16" OC
4'-0"	1'-8"	6-0"	#5 @ 16" OC

NOTE:
1. SEE DETAIL 6/5SS5.1 FOR OVER EXCAVATION REQUIREMENTS.
2. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

1 RETAINING WALL DETAIL
SCALE: 1"=1'-0"



NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

2 SECTION AT RAMP AT BLDG D
SCALE: 1"=1'-0"

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PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER
ALEX N. ORTIZ
No. S4399
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
JAMMY R. DRAKE
NO. C-014869
REN. 05-31-27
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#	REVISION DATE	DESCRIPTION

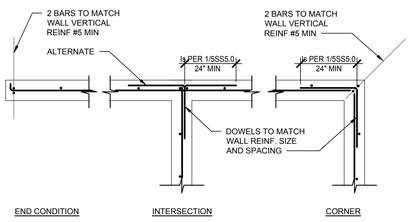
DRAWING TITLE

STRUCTURAL SITE DETAILS

5SS3.1

SCALE As indicated

PLOT DATE 7/31/2024 10:13:04 AM

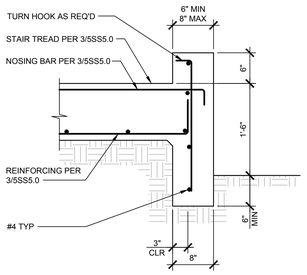


NOTE:

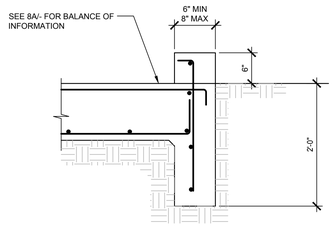
1. REINFORCEMENT SHOWN ON WALL ELEVATIONS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.
2. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

10 PLAN - CONC WALL & FTG DETAIL W/ SINGLE LAYER REINF

SCALE: 1" = 1'-0"



8A TYPICAL SECTION



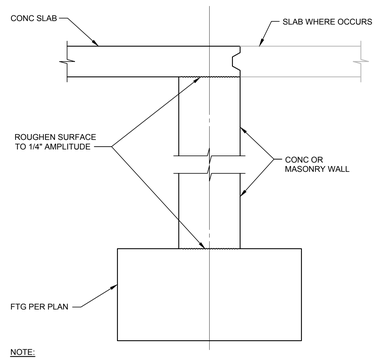
8B ALTERNATE SECTION

NOTES:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

8 STAIR CHEEK WALL DETAIL

SCALE: 1" = 1'-0"



NOTE:

PROVIDE THIS DETAIL AT ALL CONCRETE WALLS, UNO.

5 TYP CONC CONSTRUCTION JOINTS

SCALE: 1" = 1'-0"

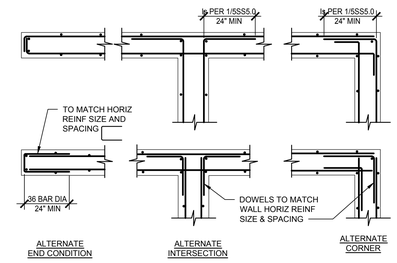
BAR SIZE	"TOP" REINFORCEMENT		"OTHER" REINFORCEMENT	
	DEVELOPMENT LENGTH (ld)	LAP SPLICE LENGTH (ls)	DEVELOPMENT LENGTH (ld)	LAP SPLICE LENGTH (ls)
#3	1'-7"	2'-1"	1'-3"	1'-7"
#4	2'-1"	2'-10"	1'-7"	2'-1"
#5	2'-7"	3'-5"	2'-1"	2'-7"
#6	3'-1"	4'-1"	2'-5"	3'-1"
#7	4'-7"	5'-10"	3'-6"	4'-7"
#8	5'-2"	6'-8"	4'-0"	5'-2"
#9	5'-10"	7'-7"	4'-6"	5'-10"
#10	6'-7"	8'-6"	5'-1"	6'-7"
#11	7'-3"	9'-6"	5'-8"	7'-3"

NOTES:

1. USE SPLICE LENGTH (ls) INDICATED ON TABLE FOR ALL DOWEL LENGTHS NOT SHOWN ON PLANS UNLESS OTHERWISE PERMITTED BY ENGINEER.
2. DEVELOPMENT LENGTH (ld) AND SPLICE LENGTHS (ls) SHOWN IN THE SCHEDULE ABOVE ARE IN ACCORDANCE WITH ACI 318-19 AND CORRESPOND TO GRADE 60 BARS EMBEDDED IN NORMAL WEIGHT CONCRETE (f'c=4000 PSI). FOR CONCRETE WITH f'c=5000 PSI MULTIPLY VALUES IN TABLE BY 0.9. FOR CONCRETE WITH f'c=3000 PSI, MULTIPLY VALUES IN TABLE BY 1.15.
3. THIS SCHEDULE SHALL BE USED WHERE DEVELOPMENT AND SPLICE LENGTHS ARE NOT SPECIFICALLY DETAILED AND DIMENSIONED ON THE DRAWINGS.
4. THE SCHEDULE ABOVE IS APPLICABLE FOR THE FOLLOWING CONDITIONS:
   a). CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT dl, NOT LESS THAN THE CODE MINIMUM.
   OR
   b). CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.
5. "TOP" REINFORCEMENT IS DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT OR SPLICE LENGTH. "OTHER" REINFORCEMENT INCLUDES ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW BAR.
6. WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED, SPLICE LENGTH SHALL BE THE LARGER OF DEVELOPMENT LENGTH OF LARGER BAR OR SPLICE LENGTH OF SMALLER BAR.

1 REINFORCEMENT DEVELOPMENT SPLICE SCHEDULE

SCALE: 1" = 1'-0"

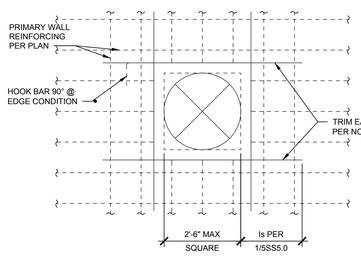


NOTES:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

11 PLAN - CONC WALL & FTG DETAIL W/ DOUBLE LAYER REINF

SCALE: 1"=1'-0"



NOTES:

1. SEE WALL ELEVATIONS OR PLANS FOR REINFORCEMENT AT LARGER OPENINGS.
2. CLUSTERS OF SMALL HOLES WHOSE OVERALL MEASUREMENT EXCEED 1'-0" SHOULD BE REINFORCED AS ONE OPENING.
3. TRIM AT EA SIDE OF OPENING TO MATCH SIZE AND QUANTITY OF PRIMARY REINFORCEMENT INTERRUPTED DUE TO OPENING, MIN (2) #5 EA SIDE EF.
4. ALL OPENINGS NOT SHOWN ON PLANS TO BE SUBMITTED TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
5. MAINTAIN MIN CENTER-TO-CENTER SPACING BETWEEN ADJACENT SLEEVES OF 3x DIAMETER OF THE LARGER SLEEVE.
6. PROVIDE REINFORCMENT AT LOCATIONS WHERE SLEEVES INTERRUPT REINFORCMENT AND AT SLEEVES THAT ARE 6" OR LARGER IN DIAMETER.

9 WALL OPENING DETAIL

SCALE: 1"=1'-0"

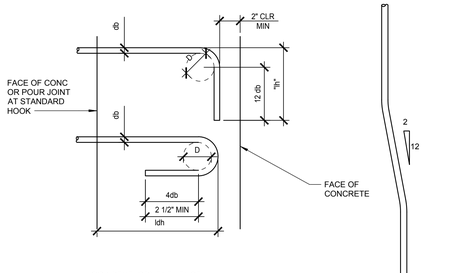
STANDARD HOOK DEVELOPMENT LENGTH "ldh"						
BAR SIZE	D	"lh"	NORMAL WEIGHT			
			fc = 3,000 psi	fc = 4,000 psi	fc = 5,000 psi	fc = 8,000 psi
#3	2 1/4"	6"	6"	6"	6"	6"
#4	3"	8"	8"	7"	7"	6"
#5	3 3/4"	10"	10"	9"	9"	6"
#6	4 1/2"	1'-0"	1'-0"	10"	10"	8"
#7	5 1/4"	1'-2"	1'-2"	1'-0"	1'-0"	9"
#8	6"	1'-4"	1'-4"	1'-2"	1'-2"	10"
#9	9 1/2"	1'-7 1/2"	1'-6"	1'-3"	1'-3"	11"
#10	10 1/4"	1'-10"	1'-8"	1'-5"	1'-5"	1'-0"
#11	11 1/2"	2'-0 1/2"	1'-10"	1'-7"	1'-7"	1'-2"

NOTES:

1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
2. MINIMUM SIDE COVER AND SPACING = 6db.
3. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.
4. FOR GRADE 80 REINFORCING MULTIPLY THE LENGTHS IN THE SCHEDULE BY 1.33.

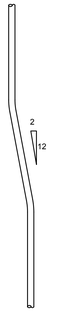
6 STANDARD HOOK DEVELOPMENT LENGTH BENDING DETAIL

SCALE: 1"=1'-0"



HOOK DEVELOPMENT LENGTH
HOOK DEVELOPMENT (SEE SCHEDULE)

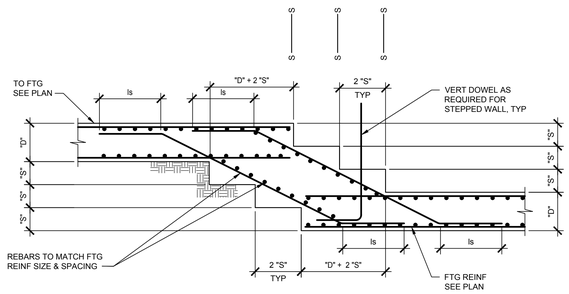
BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d



TYPICAL COLUMN BAR OFFSET

NOTES:

1. "S" = 1'-6" MAX
2. "D" = DEPTH OF FTG
3. FOR LAP LENGTHS SEE SCHEDULE

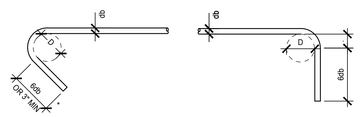


NOTES:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

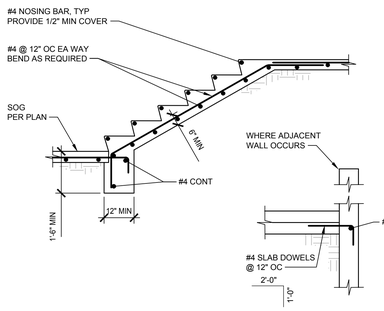
2 STEPPED FOOTING DETAIL

SCALE: 1" = 1'-0"



BAR SIZE	D
#3	1 1/2"
#4	2"
#5	2 1/2"

* PROVIDE 10db EXTENSIONS IN LIEU OF 6db AT ALL FRAME COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS.

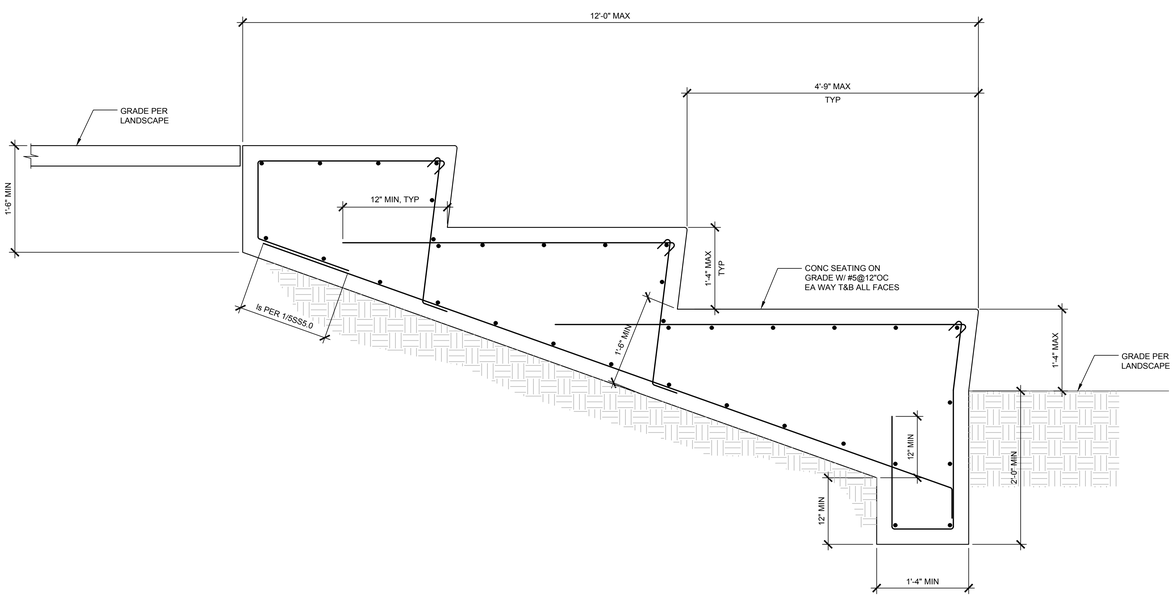


NOTES:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

4 TIES AND STIRRUPS DETAIL

SCALE: 1"=1'-0"



NOTES:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

7 TERRACED CONCRETE WALL

SCALE: 1"=1'-0"

3 CONCRETE STAIRS ON GRADE

SCALE: 1"=1'-0"

File: K:\2021\2108853 – LOUSD – Paradise Canyon ES – Campus Upgrades\5 Sheet\[YAOKAE 5\2108853 – 5SS5.0 – Structural Concrete Details.dwg
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REGISTERED PROFESSIONAL ENGINEER — CALIFORNIA — C-5399 — STRUCTURAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — HARRY R. DILKES — NO. C-014869 — REN. 05-31-27 — STATE OF CALIFORNIA

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04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

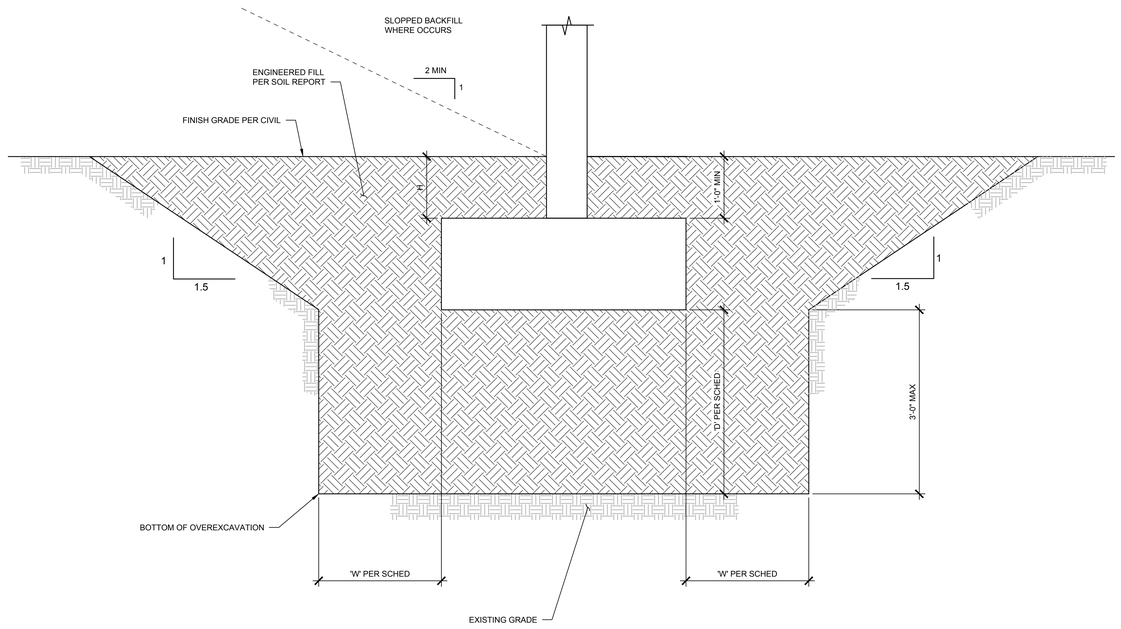
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STRUCTURAL CONCRETE DETAILS

5SS5.0

SCALE As indicated

PLOT DATE 7/31/2024 10:13:04 AM

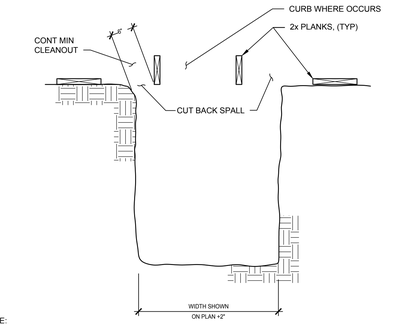


NOTES:

1. SEE GEOTECH REPORT SECTION 8.2.3 FOR ADDITIONAL REQUIREMENTS.
2. MAX RETAINED HEIGHT IN SCHEDULE IS THE DIFFERENCE FROM THE TOP OF THE FOOTING TO THE TOP OF RETAINED SOIL BEHIND THE RETAINING WALL.
3. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705.3.3.2.

SCHEDULE			
MAX RETAINING HT			
LEVEL BACKFILL	SLOPED BACKFILL	W	D
H ≤ 2'-0"	-	0'-0"	0'-0"
2'-0" < H ≤ 4'-0"	H ≤ 2'-0"	1'-0"	1'-0"
4'-0" < H ≤ 6'-0"	2'-0" < H ≤ 6'-0"	2'-0"	2'-0"

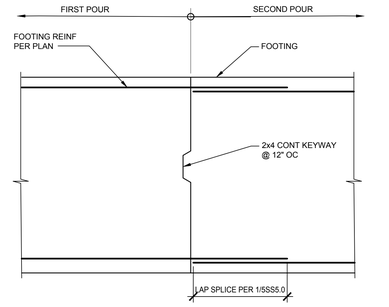
6 RETAINING WALL FOOTING GRADING DIAGRAM
NTS



NOTE:

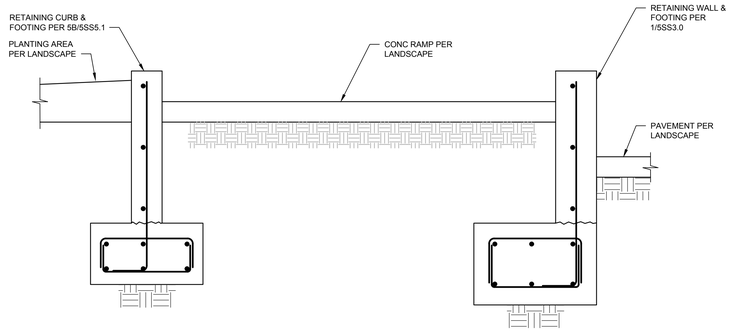
FRAMEWORK NOT PERMITTED BELOW GRADE (UNLESS SIDES OF THE FTG ARE FULLY FORMED) STAKES NOT PERMITTED IN FOOTING SECTION.

1 MANDATORY MINIMUM FORMWORK
SCALE: 3/4" = 1'-0"



ELEVATION

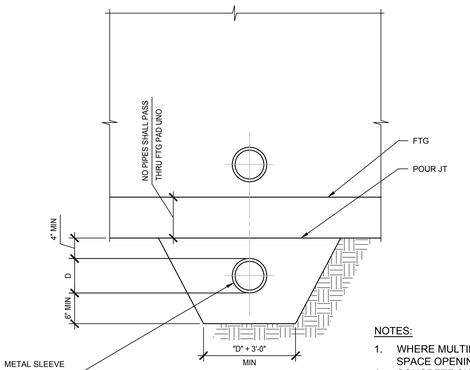
2 CONT FOOTING CONSTRUCTION JOINT
SCALE: 1"=1'-0"



NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

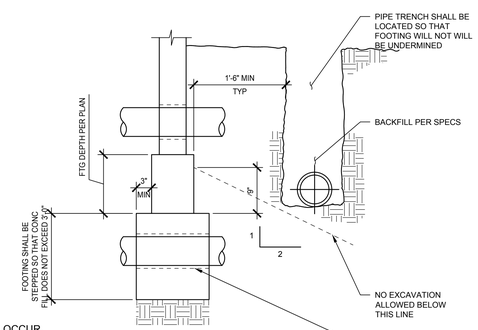
7 RAMP SECTION AT BLDG E
1"=1'-0"



ELEVATION

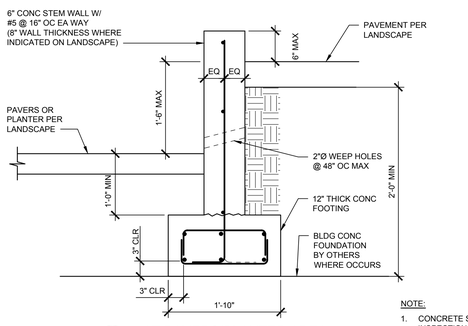
NOTES:

1. WHERE MULTIPLE ADJACENT OPENINGS OCCUR, SPACE OPENINGS AT LEAST 3D OC APART.
2. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

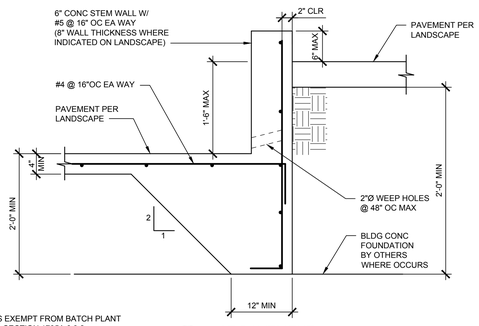


SECTION

3 TYPICAL PIPE SLEEVE AND TRENCH FOOTING DETAIL
NTS



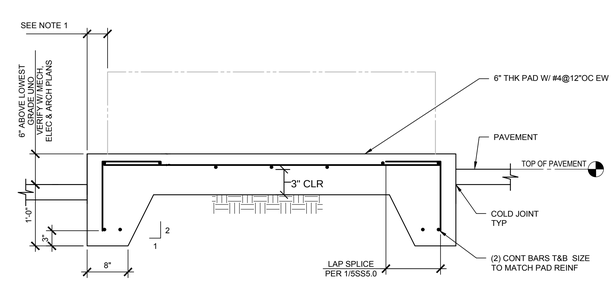
5B AT PAVERS/PLANTER AREA



NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

5A AT PAVEMENT



NOTE:

1. EXTEND PAD 6" MINIMUM BEYOND FACE OF UNIT UNLESS A GREATER DISTANCE IS REQUIRED FOR ANCHOR EDGE DISTANCES (SEE MECH/ELECT DRAWINGS).
2. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

5 RETAINING CURB DETAIL
SCALE: 1"=1'-0"

4 EQUIPMENT PAD ON GRADE
SCALE: 1"=1'-0"

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER
CHRISTIAN DIETZ
C 63399
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
HENRY R. DELAO
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

STRUCTURAL CONCRETE DETAILS

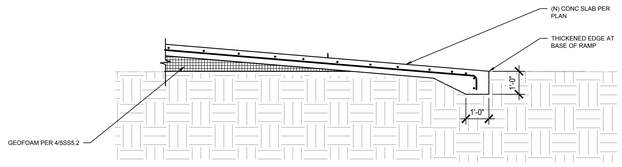
5SS5.1

SCALE As indicated

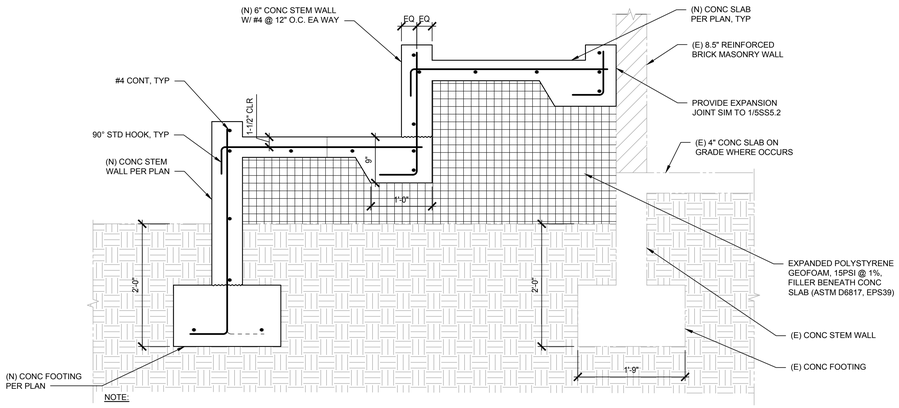
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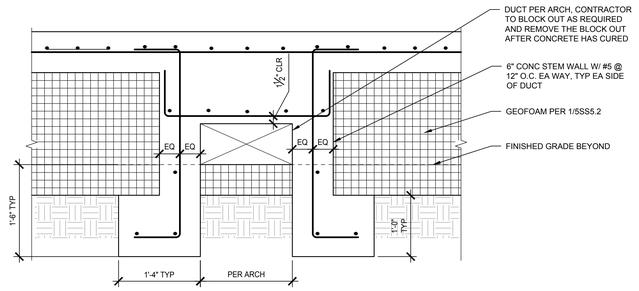
5 SECTION AT BASE OF RAMP
SCALE: 3/8"=1'-0"



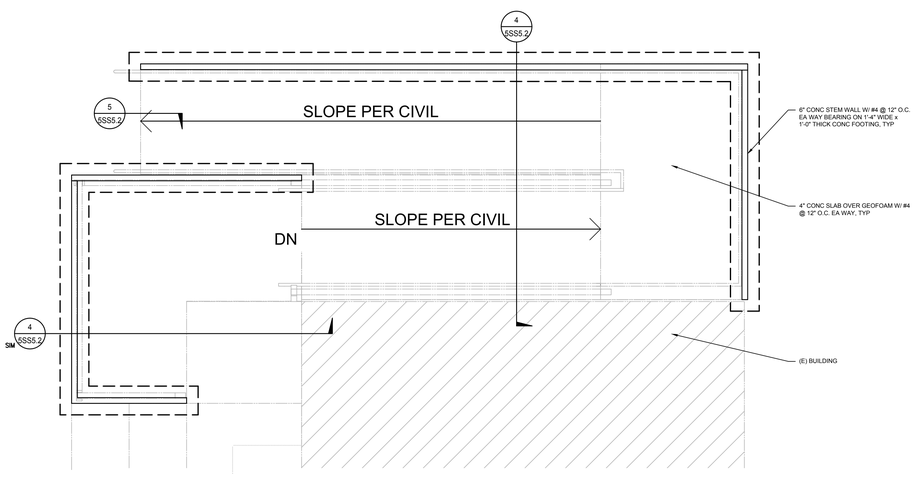
NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

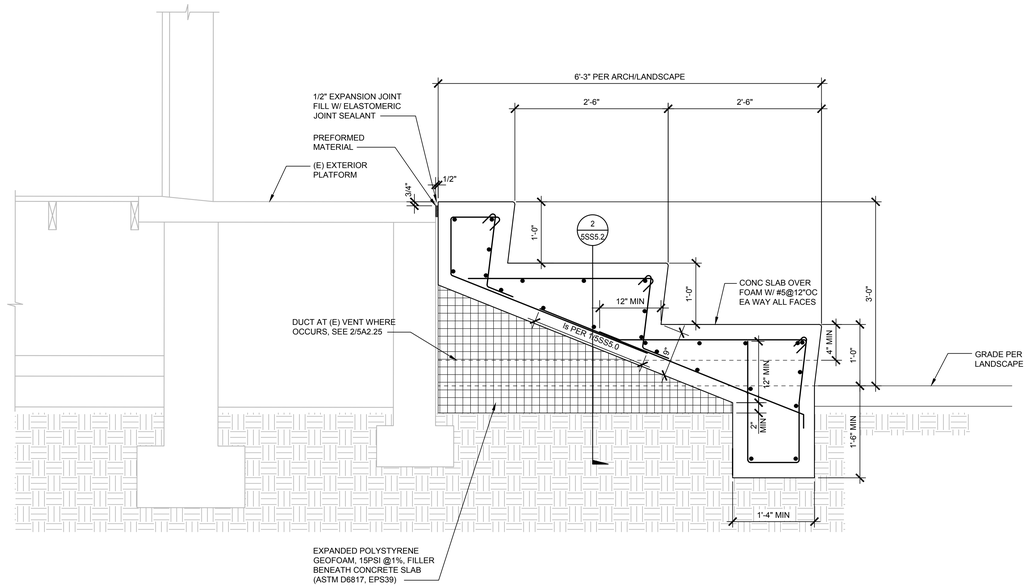
4 SECTION AT NEW RAMP
SCALE: 1"=1'-0"



2 DUCT THROUGH TERRACE WALL
SCALE: 1"=1'-0"



3 ENLARGED RAMP PLAN
SCALE: 3/8"=1'-0"



NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

1 TERRACE WALL AT (E) STAGE
SCALE: 1"=1'-0"

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Plotted: 3/17/26 at 9:05am By: krose
PDF's: 2100853 – grid – Modules – XAr10 - grid2.dwg

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER
CARLYN GARCIA
54399
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
HARRY R. DRAKE
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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03/20/2026	DSA V3

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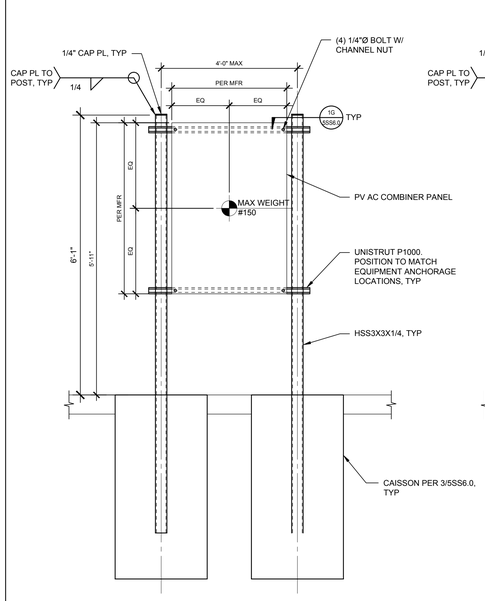
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STRUCTURAL CONCRETE DETAILS

5SS5.2

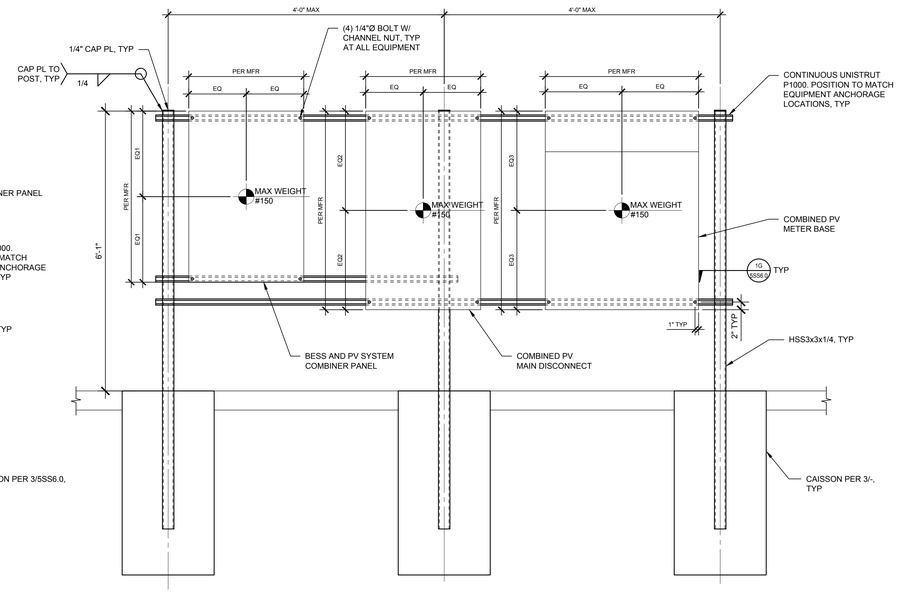
SCALE As indicated

PLOT DATE 7/31/2024 10:13:04 AM



5 PV COMBINER PANEL WALL FRAME
SCALE: 3/4"=1'-0"

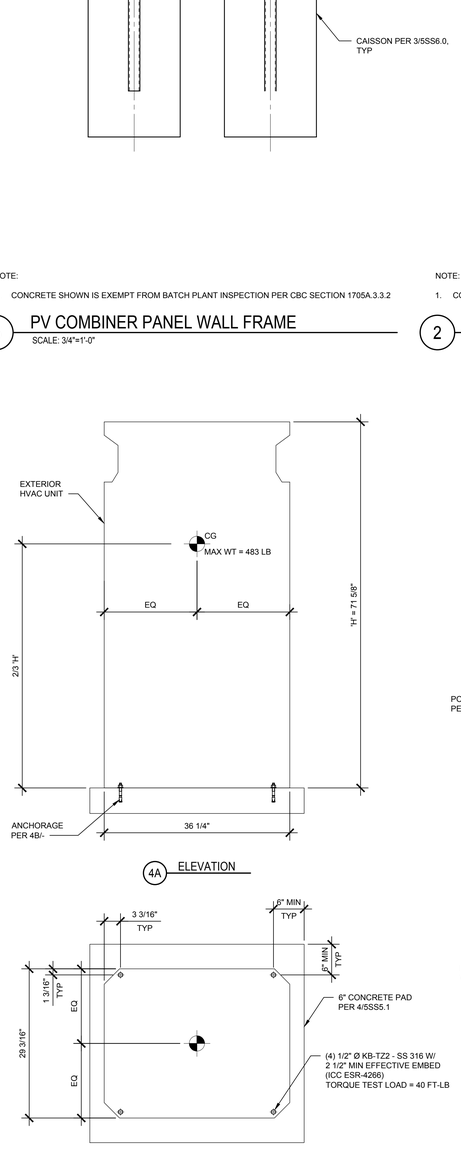
NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2



2 WALL FRAME ELEVATION
SCALE: 3/4"=1'-0"

NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

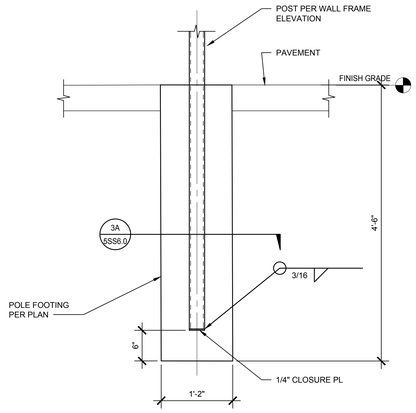
4A ELEVATION



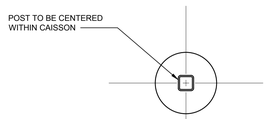
4B BASE

NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

4 HEAT RECOVERY SYSTEM ANCHORAGE DETAIL
SCALE: 1"=1'-0"



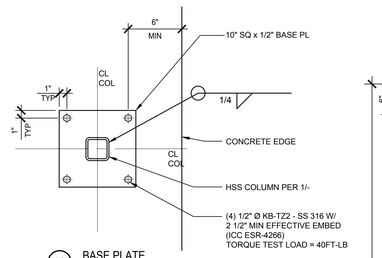
3B CAISSON ELEVATION



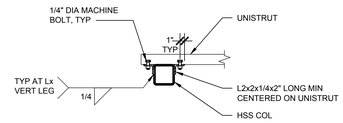
3A SECTION

NOTE:
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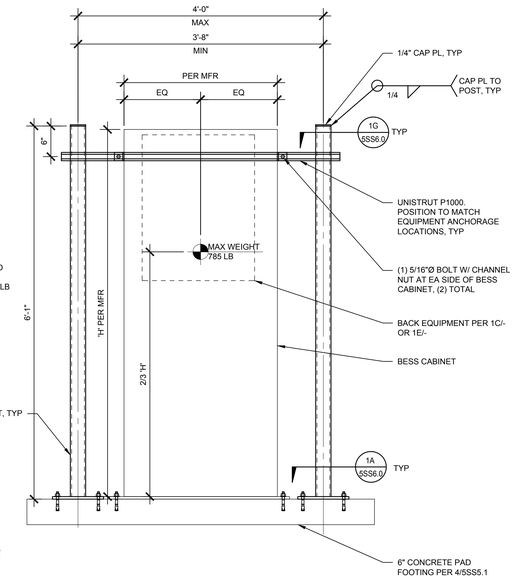
3 CAISSON DETAIL
SCALE: 1"=1'-0"



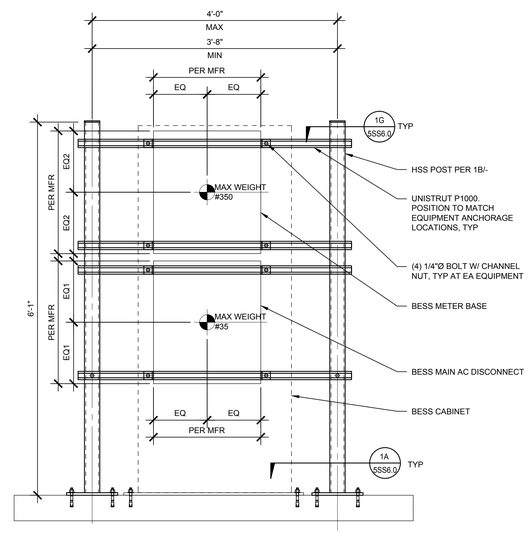
1A BASE PLATE
1 1/2"=1'-0"



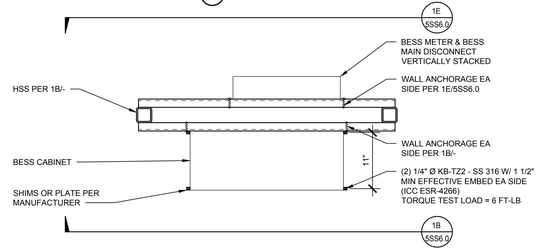
1G CONNECTION DETAIL



1B FRONT VIEW

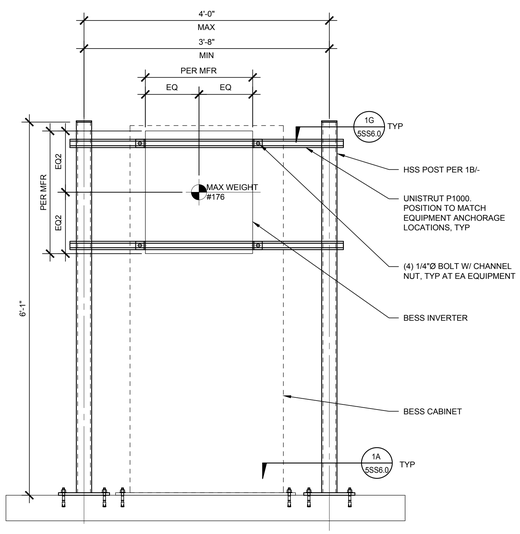


1E FRAME 2 - BACK VIEW

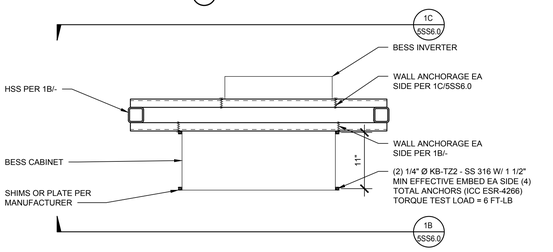


NOTE:
1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

1F FRAME 2 - PLAN VIEW



1C FRAME 1 - BACK VIEW



1D FRAME 1 - PLAN VIEW

1 WALL FRAME ELEVATION
SCALE: 1"=1'-0"

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER

REGISTERED PROFESSIONAL ENGINEER — ALEX P. LIN — No. S-6399 — STRUCTURAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — JEREMY R. DRAKE — NO. C-014869 — REN. 05-31-27 — STATE OF CALIFORNIA

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#	REVISION DATE	DESCRIPTION

DRAWING TITLE

EQUIIPMENT ANCHORAGE DETAILS

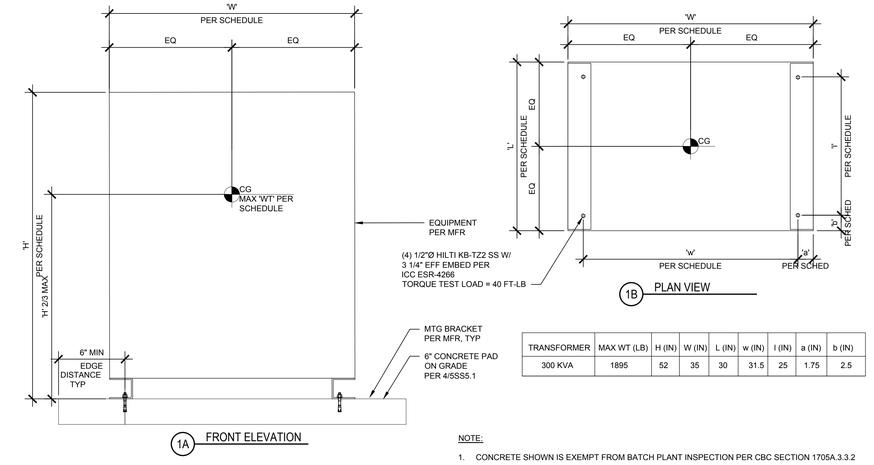
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1A FRONT ELEVATION

1B PLAN VIEW

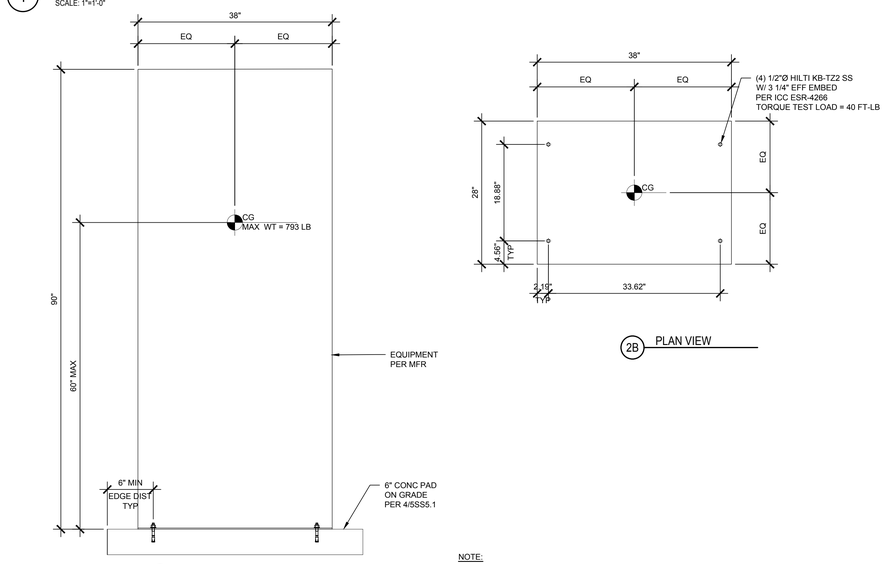
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NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

1 TRANSFORMER

SCALE: 1"=1'-0"



2A FRONT ELEVATION

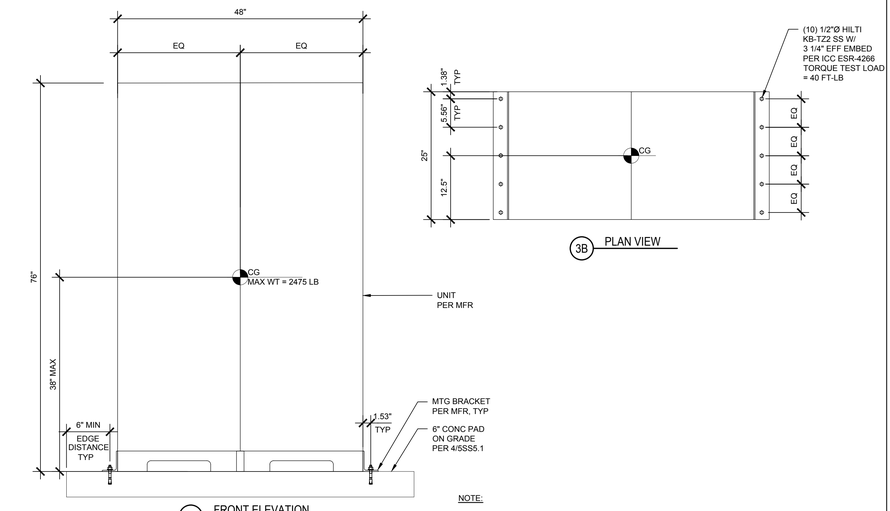
2B PLAN VIEW

NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

2 SWITCHBOARD

SCALE: 1"=1'-0"



3A FRONT ELEVATION

3B PLAN VIEW

NOTE:

1. CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

3 INVERTER

SCALE: 1"=1'-0"

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

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ISSUE DATE	DESCRIPTION
04/19/2024	100% SCHEMATIC DESIGN
07/05/2024	50% DESIGN DEVELOPMENT
08/16/2024	100% DESIGN DEVELOPMENT
04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

EQUIIPMENT ANCHORAGE DETAILS

5SS6.1

SCALE As indicated

PLOT DATE 7/31/2024 10:13:04 AM

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS TO EXAMINE AND PREPARE THE TOTAL SCOPE OF WORK AND ALL REQUIRED COORDINATION.
2. THE CONTRACTOR SHALL VERIFY THE LIMIT OF THE SCOPE AREA PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION AND INSTALLATION OF PROPOSED LANDSCAPE ITEMS SHALL BE PER LOCAL AND GOVERNING CODES AND ORDINANCES.
4. ALL QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR. IN CASE OF DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARITY WITH ALL EXISTING UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING ALL EXISTING SEWER, UTILITY, AND WATER MAIN LINES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGES AND REPLACEMENT OF SAID UTILITIES.
6. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE UTILITIES OR STRUCTURES, INCLUDING ALL PRIVATE & PUBLIC UTILITY EASEMENTS, SHOWN AND NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS MAINS AND ELECTRICAL LINES, AND UTILITY EASEMENTS. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES, ABOVE AND BELOW GRADE PRIOR TO EXCAVATION AND TRENCHING.
7. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AND / OR REGRADING WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS EXIST THAT MAY HAVE NOT BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
8. SPOT ELEVATIONS AND GRADES SHOWN ON THE DRAWINGS ARE BASED ON SURVEY INFORMATION AND ARE FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND SPOT ELEVATIONS. CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT DISCREPANCIES TO OWNER'S AUTHORIZED REPRESENTATIVE AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO ANY GRADING AND CONSTRUCTION.
9. ARCHITECTURAL ELEMENTS AND SITE UTILITIES ARE SHOWN ON LANDSCAPE PLANS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL AND ENGINEERING DRAWINGS FOR ACTUAL ARCHITECTURAL AND UTILITY INFORMATION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES TO REMAIN DURING CONSTRUCTION. SEE TREE PROTECTION DRAWINGS, NOTES AND SPECIFICATIONS.
11. OFFSETS, FITTINGS, SLEEVES, ETC.; DUE TO THE SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL WHICH MAY BE REQUIRED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THIS WORK AND PLAN THIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, SITE STRUCTURAL DESIGN SUCH AS WALLS AND FOOTINGS, WATER FEATURE MECHANICAL SYSTEMS, PLANTING AND ARCHITECTURAL FEATURES.
12. THE LOCATION OF FEATURES TO BE CONSTRUCTED NOT SPECIFICALLY DIMENSIONED SHOULD BE FIELD VERIFIED BY THE CONTRACTOR AND REVIEWED BY THE LANDSCAPE ARCHITECT IN SHOP DRAWINGS.
13. REQUIRED SHOP DRAWINGS SHALL BE BASED ON FIELD MEASUREMENT AND LAYOUT VERIFICATION BY THE CONTRACTOR.
14. ANY AREA DISTURBED OUTSIDE THE LIMIT OF WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.

SOIL PREPARATION AND FINE GRADING NOTES

1. SITE DRAINAGE AND SITE DEVICES INCLUDING ALL ON GRADE SLABS, WALKWAYS, ALL PLANTING AREAS, ON GRADE PAVED SURFACES ARE BY CIVIL ENGINEER. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL SITE DRAINAGE. SEE CIVIL DRAWINGS FOR OVERALL DRAINAGE STRATEGY AND RIM ELEVATIONS OF ALL DRAINAGE AND SEWER STRUCTURES.
2. REFER TO CIVIL ENGINEER'S DRAWINGS FOR GRADING AND DRAINAGE INFORMATION AND OTHER RELATED NON-LANDSCAPE WORK. VERIFY ON-SITE AND REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE START OF ANY WORK ON THIS CONTRACT.
3. THE CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS, STRUCTURES, AND WALLS. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PONDING OR STANDING WATER. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. ALL WALKWAYS AND HARDSCAPE AREAS MUST HAVE POSITIVE DRAINAGE.
4. VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN THE EXISTING AND PROPOSED CONDITION TO THE LANDSCAPE ARCHITECT.
5. PITCH EVENLY BETWEEN ELEVATIONS ENSURING POSITIVE DRAINAGE THROUGHOUT SPACE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
6. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
7. SOIL PREPARATION PER SPECIFICATIONS IS REQUIRED IN ALL PLANTING AREAS.
8. SUFFICIENT PLANTING AREA DRAINAGE, COMPACTION AND PERCOLATION SHALL BE ESTABLISHED BY THE GENERAL CONTRACTOR. UNLESS OTHERWISE NOTED IN THE CIVIL DRAWINGS, THE GENERAL CONTRACTOR IS RESPONSIBLE FORE REVIEWING PREPARED AND INSTALLED SITE SOILS AND SUBGRADE BASED ON THE GEOTECHNICAL ENGINEER'S REPORT AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF THE COMPACTION IN PLANTING AREAS EXCEEDS WHICH IS SPECIFIED.
9. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND CIVIL ENGINEER IN THE FIELD AFTER SOIL PREPARATION AND PRIOR TO PLANTING. ALL PLANTING AREAS SHALL BE GRADED TO THE ELEVATIONS INDICATED ON THE CIVIL ENGINEER'S PLANS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. ANY AREA DISTURBED OUTSIDE THE LIMIT OF WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
5L0.00	CONSTRUCTION NOTES AND SCHEDULE
5L0.01	TREE PROTECTION AND TREE REMOVAL PLAN
5L0.02	LANDSCAPE REFERENCE PLAN
5L1.01	CONSTRUCTION PLAN
5L1.02	CONSTRUCTION PLAN
5L1.51	WALLS, CURBS AND EDGING PLAN
5L1.52	WALLS, CURBS AND EDGING PLAN
5L2.01	CONSTRUCTION DETAILS
5L2.02	CONSTRUCTION DETAILS
5L2.03	CONSTRUCTION DETAILS
5L2.04	CONSTRUCTION DETAILS
5L2.50	SITE SECTIONS AND ELEVATIONS
5L2.51	SITE SECTIONS
5L2.52	SITE SECTIONS
5L4.00	MASTER IRRIGATION LEGEND, NOTES AND CALCS
5L4.01	OVERALL IRRIGATION PLAN
5L4.02	IRRIGATION PLAN
5L4.03	IRRIGATION PLAN
5L4.10	IRRIGATION DETAILS
5L4.11	IRRIGATION DETAILS
5L4.51	LANDSCAPE HYDROZONE PLAN
5L5.00	PLANTING NOTES AND SCHEDULE
5L5.01	PLANTING PLAN
5L5.02	PLANTING PLAN
5L5.20	PLANTING DETAILS

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL	MANUFACTURER	MATERIALS	FINISH	COLOR	REMARKS
Edging								
	E-101	CONCRETE MOW CURB	4/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	E-102	RAISED CONCRETE CURB	4/5C5.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
SYMBOL	CODE	DESCRIPTION	DETAIL	MANUFACTURER	MATERIAL	FINISH	COLOR	REMARKS
Paving								
	P-101	C.I.P. CONCRETE TYPE A - PEDESTRIAN	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	GC TO PROVIDE 4' X 4' MOCKUPS AT THE SITE FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION
	P-102	C.I.P. CONCRETE TYPE A - VEHICULAR	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	GC TO PROVIDE 4' X 4' MOCKUPS AT THE SITE FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION
	P-103	C.I.P. CONCRETE TYPE B - PEDESTRIAN	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #100	DARK GRAY	GC TO PROVIDE 4' X 4' MOCKUPS AT THE SITE FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION
	P-104	C.I.P. CONCRETE TYPE B - VEHICULAR	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #100	DARK GRAY	GC TO PROVIDE 4' X 4' MOCKUPS AT THE SITE FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION
	P-105	C.I.P. CONCRETE TYPE C - PEDESTRIAN	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	MEDIUM BROOM FINISH	NATURAL GRAY	GC TO PROVIDE 4' X 4' MOCKUPS AT THE SITE FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION
	P-106	PAVER TYPE 1	3/5L2.01	GLEN-GERY 310-326-5160	CLAY BRICK PAVER	-	LIBERTY COPPER	4" X 8" X 2-1/4"
	P-107	PAVER TYPE 2	3/5L2.01	GLEN-GERY 310-326-5160	CLAY BRICK PAVER	-	PLUM PLAZA	4" X 8" X 2-1/4"
	P-108	PAVER TYPE 3	3/5L2.01	GLEN-GERY 310-326-5160	CLAY BRICK PAVER	-	EMPIRE BLUE	4" X 8" X 2-1/4"
	P-109	PAVER TYPE 4	3/5L2.01	GLEN-GERY 310-326-5160	CLAY BRICK PAVER	-	FULL RANGE 2IN1	4" X 8" X 2-1/4"
	P-110	CONCRETE RAMP WITH HANDRAIL	6/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	P-111	CONCRETE AT MAINTENANCE STRIP	2/5L2.01	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
Wall								
	W-101	CHEEK WALL 6" WIDE	2/5L2.03	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	W-102	CHEEK WALL 8" WIDE	2/5L2.03	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOP CAST #05	NATURAL GRAY	-
	W-103	RETAINING WALL	3/5L2.03	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	SMOOTH	NATURAL GRAY	-
	W-104	SEAT WALL	1/5L2.02	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	W-105	TIERED SEAT WALL	2/5L2.02	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	W-106	TERRACED WALL	1/5L2.04	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	-
	W-107	RAISED PLANTER WALL	3/5L2.02	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	SMOOTH	NATURAL GRAY	-
	W-108	CONCRETE STAIRS	1/5L2.03	TRADEMARK 805-642-2441 OR EQUAL	C.I.P. CONCRETE	TOPCAST #05	NATURAL GRAY	GC TO PROVIDE MOCKUP SAMPLE AT THE SITE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

SOD — NATURAL GRASS AREA, SEE PLANTING PLAN FOR DETAILS & LAYOUT

P.A. — GENERAL PLANTING AREA; SEE PLANTING PLAN FOR DETAILS & LAYOUT

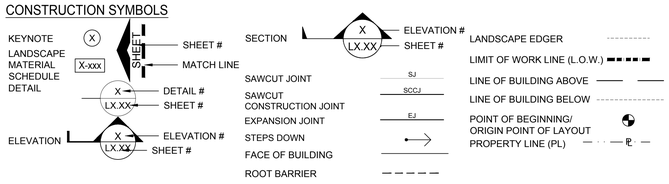
REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION
1	(E) RAMP AND HANDRAIL. PROTECT IN PLACE.
2	(E) CIP CONCRETE WALL. PROTECT IN PLACE.
3	(E) CANOPY. PROTECT IN PLACE.
4	(N) LUNCH SHELTER, SEE ARCH DRAWINGS
5	BUILDING OVERHANG, SEE ARCH DRAWINGS
6	CONDENSOR, SEE MEP DWGS
7	UTILITIES PER CIVIL
8	FENCE/ GATE PER ARCH DWGS
9	VENT, SEE ARCH DWGS
10	FIRE LANE
11	(E) WALL. PROTECT IN PLACE.
12	FIRE HYDRANT, SEE CIVIL DWGS
13	LIGHTING PER ELECTRICAL, SEE LIGHTING DWGS
14	(E) WALL REPLACE IN KIND
15	TERRACE WALL, SEE ARCH DWGS

ABBREVIATIONS

AC.	ASPHALTIC CONCRETE	INT.	INTERIOR	GR.	GRADE	SC	SAW CUT JOINT	DIM.	DIMENSION
↶	ALIGN	L.A.	LANDSCAPE ARCHITECT	HORIZ.	HORIZONTAL	SHT.	SHEET	D.L.	DRAIN LINE
ARCH.	ARCHITECT(URAL)	L.O.W	LIMIT OF WORK	T.C.	TOP OF CURB	SIM.	SIMILAR	DN	DOWN
AUTO.	AUTOMATIC	M	MULTI-TRUNKED	T.COP.	TOP OF COPING	SPEC.	SPECIFICATION	D.S.	DOWN SPOUT
BLDG.	BUILDING	MAX.	MAXIMUM	T.F.	TOP OF FENCE	S.L.	SCORE LINE	DWG.	DRAWING
B.O.C.	BACK OF CURB	MIN.	MINIMUM	T.O.F.	TOP OF FOOTING	SQ.	SQUARE	EA.	EACH
B.S.	BOTTOM OF STEP	F.F.	FINISH FLOOR	T.G.	TOP OF GRATE	STD.	STANDARD	E.J.	EXPANSION JOINT
B.R.	BOTTOM OF RAMP	F.G.	FINISH GRADE	THK.	THICK(NESS)	T.	TURF	ELEV.	ELEVATION
B.W.	BOTTOM OF WALL	FIN.	FINISH (ED)	T.P.	TOP OF PILASTER	TYP	TYPICAL	EQ.	EQUAL
C.B.	CATCH BASIN	F.J.	FOUNTAIN JET	T.S.	TOP OF STEP	MED.	MEDIUM	EXT.	EXTERIOR
C.I.	CAST IRON	F.L.	FLOW LINE	T.R.	TOP OF RAMP	MFR.	MANUFACTURER	(E)	EXISTING
C.I.P.	CAST IN PLACE	F.O.B.	FACE OF BUILDING	T.W.	TOP OF WALL	MISC.	MISCELLANEOUS	TYP.	TYPICAL
C.J.	CONTROL JOINT	F.O.C.	FACE OF CURB	P.A.	PLANTING AREA	NAT.	NATURAL	W/	WITH
C.L.	CENTERLINE	F.O.W.	FACE OF WALL	P.L.	PROPERTY LINE	N.I.C.	NOT IN CONTRACT	W/O	WITHOUT
CLR.	CLEAR	F.S.	FINISH SURFACE	P.O.B.	POINT OF BEGINNING	N.T.S.	NOT TO SCALE	WD.	WOOD
COL.	COLUMN	FT.	FOOT OR FEET	P.O.C.	POINT OF CURVATURE	O.C.	ON CENTER	W.I.	WROUGHT IRON
CONC.	CONCRETE	FTG.	FOOTING	P.O.T.	POINT OF TANGENCY	O.D.	OUTSIDE DIAMETER	W.W.M.	WELDED WIRE MESH
CONT.	CONTINUOUS	GA.	GAUGE	PREFAB.	PREFABRICATED	DBL.	DOUBLE	W.S.	WATER SURFACE
H.P.	HIGH POINT	GAL.	GALLON	R./RAD.	RADIUS	DET.	DETAIL		
HT.	HEIGHT	GALV.	GALVANIZED	REF.	REFERENCE	DIA.	DIAMETER		
I.D.	INSIDE DIAMETER	G.C.	GROUNDCOVER	REV.	REVISION	DIAG.	DIAGONAL		
INV.	INVERT								

CONSTRUCTION SYMBOLS



If this sheet is smaller than 30" high by 42" wide then it has been reduced.

811 DIG ALERT — YOU DIG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125476 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/07/2026

Practice
135 W. Green St Suite 200 Pasadena, CA 91105 | 626.568.1248 | practice-la.com

LA CAÑADA UNIFIED SCHOOL DISTRICT — ESTABLISHED 1965

HKLA

LICENSED LANDSCAPE ARCHITECT — HONGJOO KIM NO. 5087 — STATE OF CALIFORNIA
Signature
Renewal Date 12/31/26
Date 03/20/26

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT — HENRY R GRAVE — NO. C-014869 — REN. 05-31-27 — STATE OF CALIFORNIA

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#.	REVISION DATE	DESCRIPTION

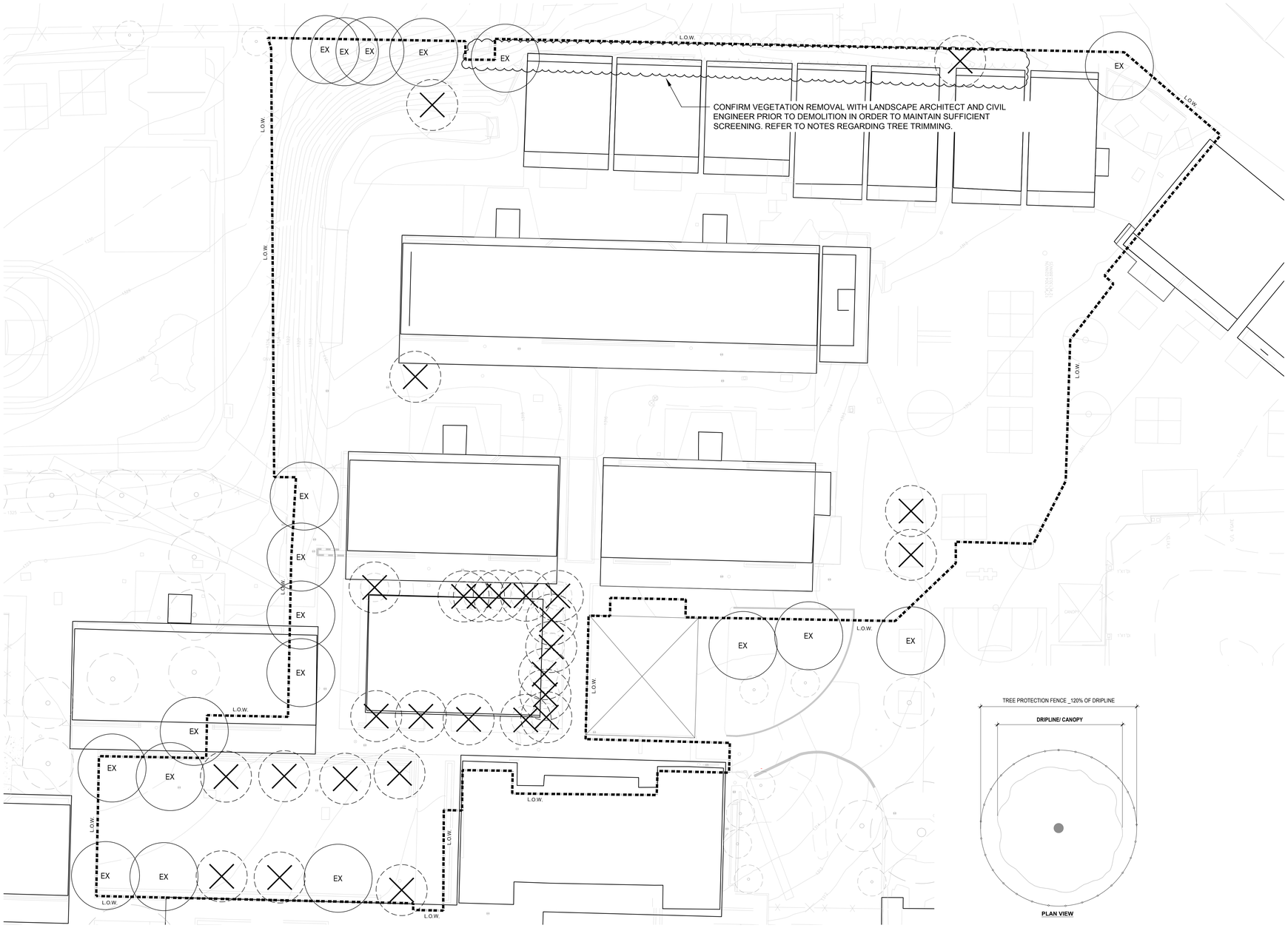
DRAWING TITLE

CONSTRUCTION NOTES AND SCHEDULE

5L0.00

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

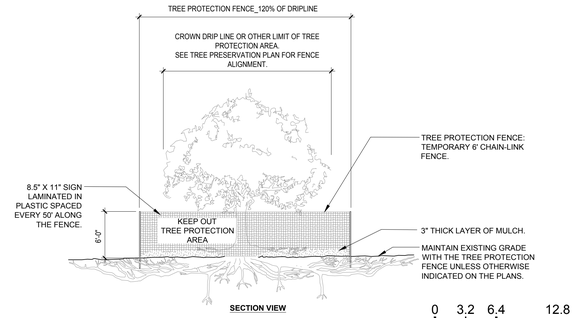


NOTE: THE CHAIN LINK FENCE DETAIL SHOWN ON THIS SHEET IS EXEMPT FORM DSA STRUCTURAL SAFETY REVIEW AND IS NOT A PART OF THE STRUCTURAL SAFETY APPROVAL PER DSA IR A-22.

LEGEND:

- TREE TO BE REMOVED
- EX — TREE TO BE PROTECTED, SEE TREE PROTECTION FENCE DETAIL 2/5L0.01
- TREE NOT IN PACKAGE 5

PLAN VIEW



SECTION VIEW

TREE PROTECTION FENCE 0 3.2 6.4 12.8 — 3/16" = 1'-0" — 2

TREE PROTECTION AND TREE REMOVAL PLAN 0 8 16 32 — 1/16" = 1'-0" — 1

NORTH

If this sheet is smaller than 30" high by 42" wide then it has been reduced.

TREE PROTECTION NOTES

1. REFER TO THE CIVIL ENGINEER'S DEMOLITION PLAN FOR ALL OTHER SITE DEMOLITION.
2. MAXIMUM EFFORT MUST BE MADE TO RETAIN EXISTING TREES ON SITE. SEE TREE PROTECTION SPECIFICATIONS AND/OR DETAILS.
3. ALL EXISTING TREES NOT INDICATED FOR REMOVAL MUST BE PROTECTED ON SITE DURING CONSTRUCTION.
4. INSTALL TEMPORARY MINIMUM 6' HEIGHT CHAIN-LINK FENCING AT DRIP LINE OF TREES TO PROTECT PRIOR TO DEMOLITION. ADD 3-INCH MULCH PROTECTION LAYER TO RETAIN MOISTURE. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL TREE PROTECTION.
5. THE PROTECTION ZONE SHOULD BE IRRIGATED SUFFICIENTLY WITH CLEAN POTABLE WATER TO KEEP THE TREE IN GOOD HEALTH AND VIGOR BEFORE, DURING, AND AFTER CONSTRUCTION.
6. CUTTING THROUGH WOODY ROOTS SHALL NOT BE ALLOWED.
7. TRENCHING, DIGGING AND GRADING (BOTH EXCAVATION AND FILL) IS TO TAKE PLACE OUTSIDE THE DRIP ZONE OF TREES TO REMAIN.
8. ANY REQUIRED TRENCHING SHOULD BE ROUTED IN SUCH A MANNER AS TO MINIMIZE ROOT DAMAGE. RADIAL TRENCHING (RADIAL TO THE TREE TRUCK) IS PREFERRED AS IT IS LESS HARMFUL THAN TANGENTIAL TRENCHING. CONSTRUCTION ACTIVITY SHOULD BE DIVERTED FROM THE ROOT PROTECTION ZONE. CUTTING OF ROOTS SHOULD BE AVOIDED (I.E. PLACE PIPES AND CABLES BELOW UNCUT ROOTS). WHEREVER POSSIBLE AND IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, THE SAME TRENCH SHOULD BE USED FOR MULTIPLE UTILITIES.
9. THE CONDITION OF EXISTING TREES TO REMAIN IS TO BE REVIEWED BY THE LANDSCAPE ARCHITECT VIA PHOTO DOCUMENTATION SUBMITTED BY THE CONTRACTOR PRIOR TO DEMOLITION OR CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT AT LEAST ONE WEEK PRIOR TO BEGINNING THE WORK.
10. THE LOCATION OF TREE PROTECTION FENCE, IS TO BE REVIEWED BY LANDSCAPE ARCHITECT VIA PHOTO DOCUMENTATION SUBMITTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT AT LEAST ONE WEEK PRIOR TO BEGINNING THE WORK.
11. NO CONSTRUCTION STAGING OR DISPOSAL OF CONSTRUCTION MATERIALS OR BYPRODUCTS INCLUDING BUT NOT LIMITED TO PAINT, PLASTER, OR CHEMICAL SOLUTIONS IS ALLOWED IN THE ROOT PROTECTION ZONE.
12. THE ROOT PROTECTION ZONE SHOULD NOT BE SUBJECTED TO FLOODING INCIDENTAL TO THE CONSTRUCTION WORK.
13. ALL WORK CONDUCTED IN THE GROUND WITHIN THE ROOT PROTECTION ZONE OF ANY PROTECTED TREE SHOULD BE ACCOMPLISHED WITH HAND TOOLS UNLESS AN AIR SPADE IS UTILIZED. TRENCHES IN THE ROOT PROTECTION ZONE SHOULD BE TUNNELED OR COMPLETED WITH AN AIR SPADE TO AVOID DAMAGE TO SMALL FEEDER ROOTS WITHIN THE ROOT PROTECTION ZONE.
14. WHERE MORE THAN 30 PERCENT OF THE ROOT ZONE IS IMPACTED OR ROOTS ARE TO BE REMOVED WITHIN THE ROOT PROTECTION AREA, THE CONTRACTOR SHALL SUBMIT ACCEPTABLE DESIGN ALTERNATIVES AS WELL AS A TREE PROTECTION PLAN BY A CERTIFIED THIRD-PARTY ARBORIST TO THE LANDSCAPE ARCHITECT FOR REVIEW.
15. WHEN ROOTS IN PROTECTION ZONE ARE TO BE MODIFIED, NOTIFY THE LANDSCAPE ARCHITECT AND SUBMIT A REVIEW BY A CERTIFIED THIRD-PARTY ARBORIST.
16. WHEN REMOVING EXISTING PAVEMENT IN THE ROOT PROTECTION ZONE, AVOID THE USE OF HEAVY EQUIPMENT, WHICH WILL COMPACT AND DAMAGE THE ROOT SYSTEM.
17. THE CONTRACTOR SHALL INFORM THE LANDSCAPE ARCHITECT OF ADDITIONAL TREE PROTECTION REQUIRED FOR ANY CONSTRUCTION STAGING OR ADDITIONAL CONSTRUCTION ACTIVITIES IDENTIFIED OUTSIDE OF THE AREAS SHOWN ON THE CONTRACT DRAWINGS.
18. THE GENERAL CONTRACTOR TO COORDINATE WITH THE LANDSCAPE ARCHITECT TO ATTEND THE PRE-COPNSTRUCTION MEETING WITH THE CONTRACTOR TO DISCUSS TREE PROTECTION PROCEDURES WITH THE SITE MANAGER.
19. CONTRACTOR SHALL ENGAGE A THIRD PARTY OR INDEPENDENT CERTIFIED ARBORIST TO EVALUATE / PROVIDE HAZARD ANALYSIS OF PROTECTED TREES AND THOSE IMMEDIATELY ADJACENT TO CONSTRUCTION AS REQUESTED BY THE LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. ANALYSIS MAY BE REQUESTED AT ANY POINT DURING CONSTRUCTION AND/OR IMMEDIATELY AFTER FINAL COMPLETION.
20. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE LANDSCAPE ARCHITECT, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION.
21. TREES DESTROYED OR DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE ASSESSED BY AN ARBORIST REPRESENTING THE OWNER AT THE CONTRACTOR'S EXPENSE USING THE CURRENT GUIDE FOR PLANT APPRAISAL FROM THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS (CTLA) OR OTHER METHOD APPROVED BY THE LANDSCAPE ARCHITECT.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, REPLACEMENT AND/OR REMEDY OF EXISTING TREES DAMAGED DURING CONSTRUCTION. DAMAGE INCLUDES, BUT IS NOT LIMITED TO, AESTHETIC DAMAGE TO THE CROWN OF THE TREE, DAMAGE TO BRANCHES, DAMAGE TO THE TRUNK, DAMAGE TO ROOTS LARGER THAN 1" IN DIAMETER, DAMAGE TO ROOTS FROM SOIL COMPACTION WITHIN THE TREE PROTECTION ZONE OR DRIPLINE OF THE TREE CANOPY.
23. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATIONS, DECOMPACTION, TOPSOIL, AND PLANTING WORK WITHIN THE TREE PROTECTION ZONES.
24. TREE PROTECTION FENCING MAY REQUIRE ADJUSTMENTS AS WORK PROGRESSES IN ORDER TO COMPLETE THE WORK SHOWN ON THE PLANS. ADJUSTMENTS TO TREE PROTECTION FENCING SHALL BE MADE BY REVISED TREE PROTECTION PLAN INDICATING PROPOSED CHANGES. PLANS SHALL BE REVIEWED AND APPROVED BY OWNER/ARBORIST AND SUBMITTED TO LANDSCAPE ARCHITECT FOR FINAL APPROVAL. TREE PROTECTION SHALL NOT BE REMOVED OR RELOCATED WITHOUT WRITTEN APPROVAL.
25. ALL EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO, LANDSCAPES, LAWNS AND PLANTS TO REMAIN THAT ARE DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHOULD BE REPAIRED OR REPLACED IN KIND.

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Practice
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HKLA

LICENSED LANDSCAPE ARCHITECT
HONGJOO KIM NO. 5087
Signature
12/31/26
Renewal Date
03/20/26
Date
STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HARRY R DRAKE
NO. C-014869
REN: 05-31-27
STATE OF CALIFORNIA

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08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

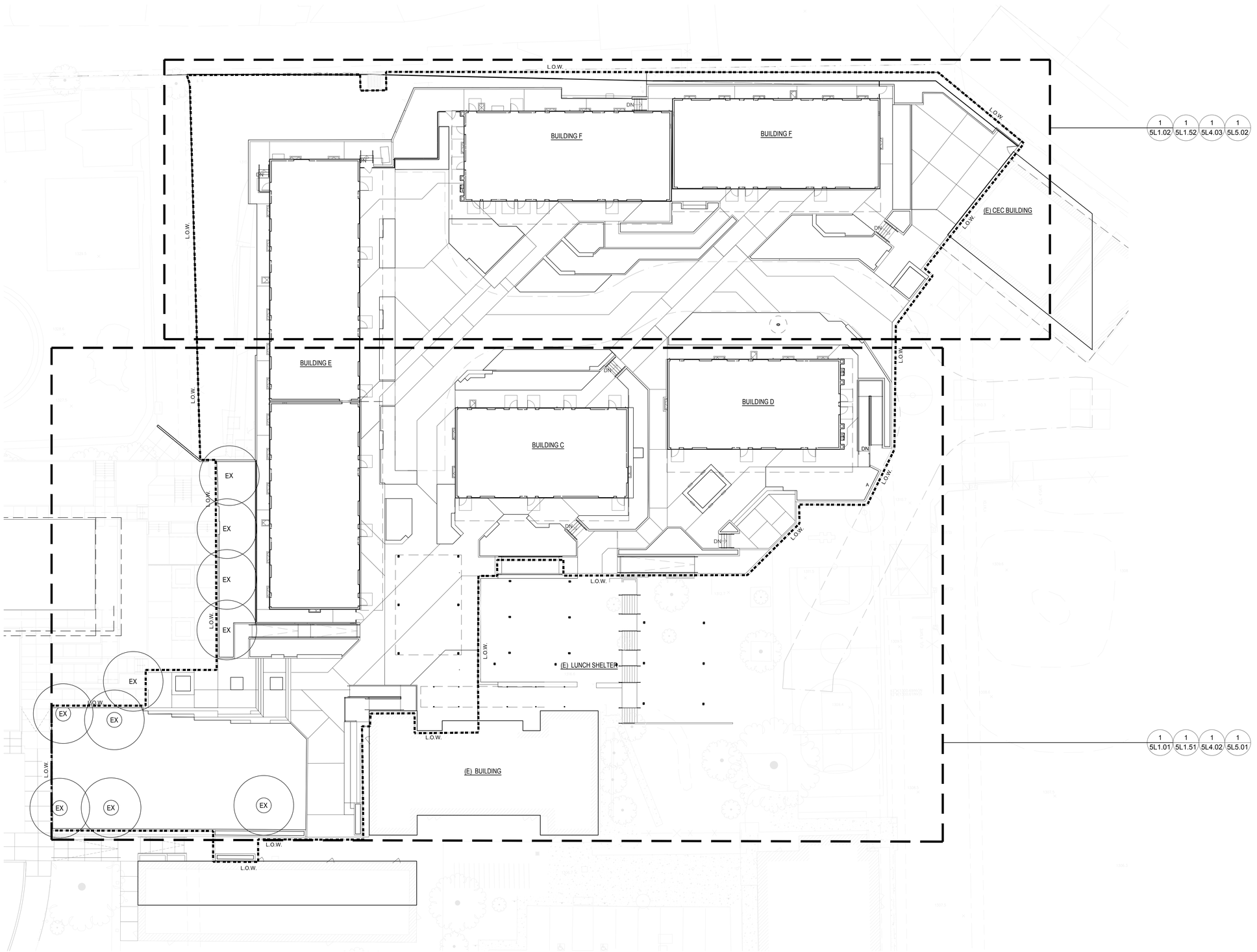
TREE PROTECTION AND TREE REMOVAL PLAN

5L0.01

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

811



0 8 16 32

LANDSCAPE REFERENCE PLAN 1/16" = 1'-0" 1 NORTH

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811 USA DIG TOU DIG

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03/20/2026	DSA V3

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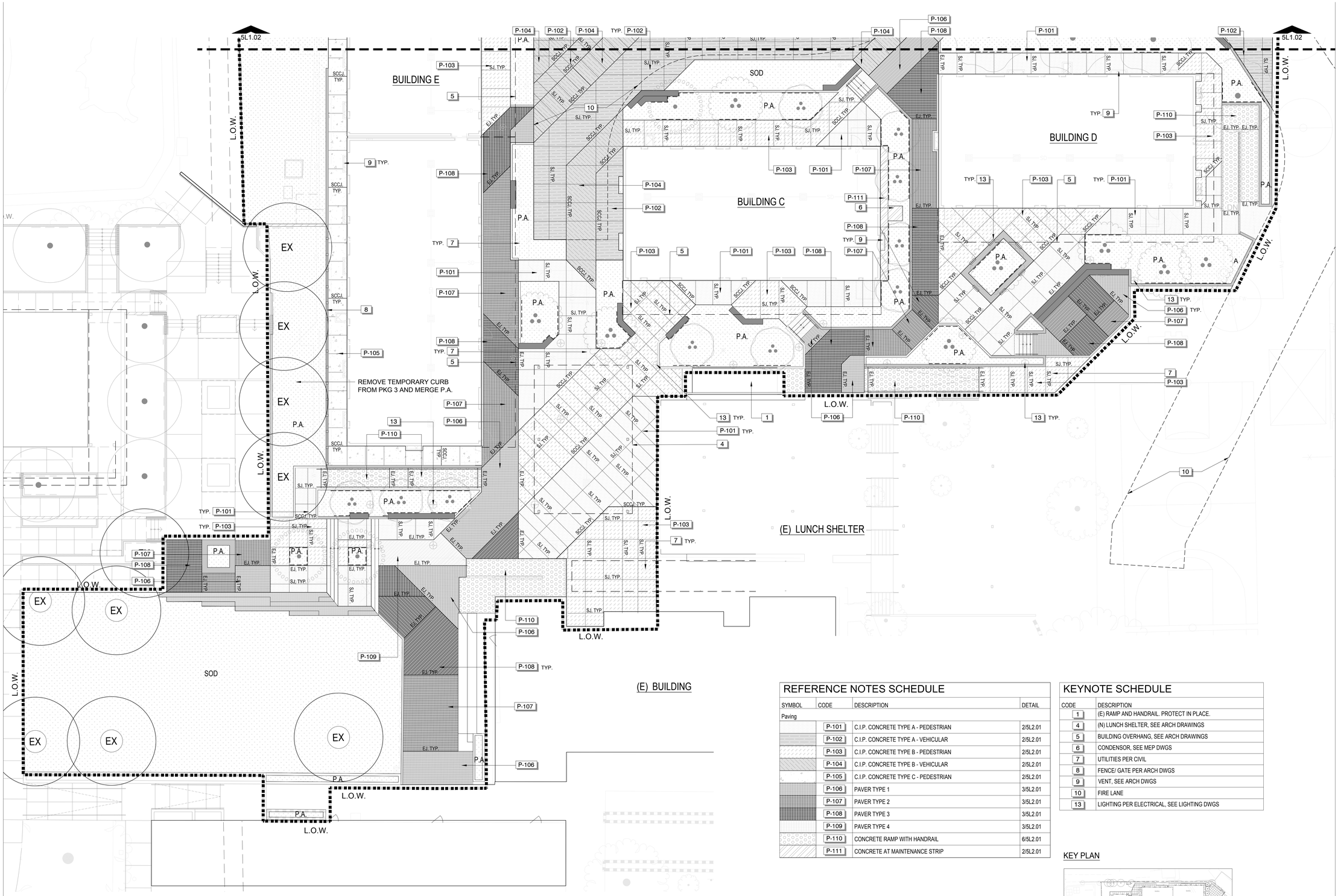
DRAWING TITLE

LANDSCAPE REFERENCE PLAN

5L0.02

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM



REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Paving			
	P-101	C.I.P. CONCRETE TYPE A - PEDESTRIAN	2/5L2.01
	P-102	C.I.P. CONCRETE TYPE A - VEHICULAR	2/5L2.01
	P-103	C.I.P. CONCRETE TYPE B - PEDESTRIAN	2/5L2.01
	P-104	C.I.P. CONCRETE TYPE B - VEHICULAR	2/5L2.01
	P-105	C.I.P. CONCRETE TYPE C - PEDESTRIAN	2/5L2.01
	P-106	PAVER TYPE 1	3/5L2.01
	P-107	PAVER TYPE 2	3/5L2.01
	P-108	PAVER TYPE 3	3/5L2.01
	P-109	PAVER TYPE 4	3/5L2.01
	P-110	CONCRETE RAMP WITH HANDRAIL	6/5L2.01
	P-111	CONCRETE AT MAINTENANCE STRIP	2/5L2.01

KEYNOTE SCHEDULE

CODE	DESCRIPTION
1	(E) RAMP AND HANDRAIL. PROTECT IN PLACE.
4	(N) LUNCH SHELTER, SEE ARCH DRAWINGS
5	BUILDING OVERHANG, SEE ARCH DRAWINGS
6	CONDENSOR, SEE MEP DWGS
7	UTILITIES PER CIVIL
8	FENCE/ GATE PER ARCH DWGS
9	VENT, SEE ARCH DWGS
10	FIRE LANE
13	LIGHTING PER ELECTRICAL, SEE LIGHTING DWGS

SOD — NATURAL GRASS AREA, SEE PLANTING PLAN FOR DETAILS & LAYOUT

P.A. — GENERAL PLANTING AREA; SEE PLANTING PLAN FOR DETAILS & LAYOUT

SAWCUT JOINT — SJ

SAWCUT CONSTRUCTION JOINT — SCCJ

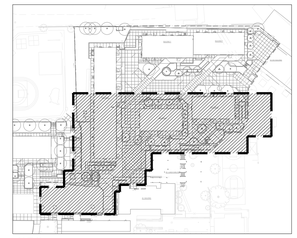
EXPANSION JOINT — EJ

ROOT BARRIER

REFER TO 5L1.51 AND 5L1.52 FOR ALL VERTICAL AND EDGE CONDITIONS

REFER TO 5L1.01 AND 5L1.02 FOR ALL PAVING AND FLATWORK

KEY PLAN



N.T.S.

0 5 10 20

CONSTRUCTION PLAN 1" = 10' 1

NORTH

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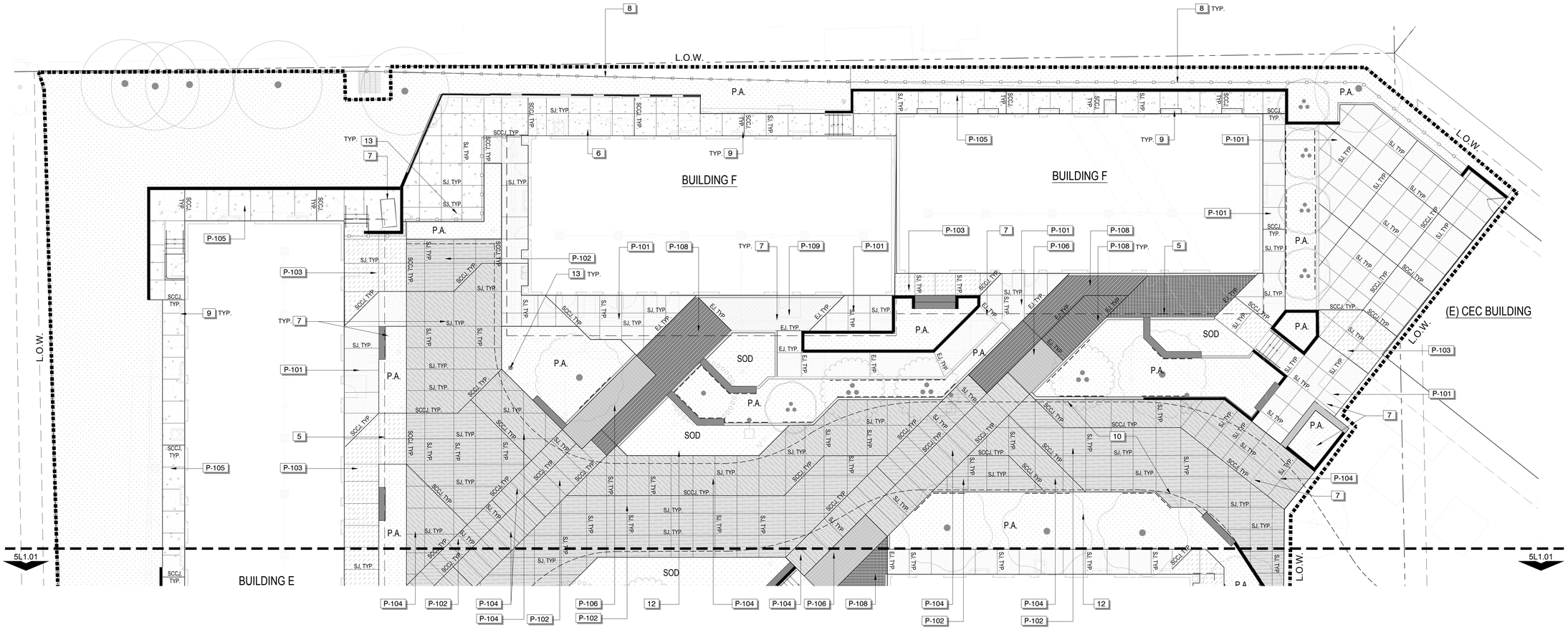
DRAWING TITLE

CONSTRUCTION PLAN

5L1.01

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM



REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Paving			
	P-101	C.I.P. CONCRETE TYPE A - PEDESTRIAN	2/5L2.01
	P-102	C.I.P. CONCRETE TYPE A - VEHICULAR	2/5L2.01
	P-103	C.I.P. CONCRETE TYPE B - PEDESTRIAN	2/5L2.01
	P-104	C.I.P. CONCRETE TYPE B - VEHICULAR	2/5L2.01
	P-105	C.I.P. CONCRETE TYPE C - PEDESTRIAN	2/5L2.01
	P-106	PAVER TYPE 1	3/5L2.01
	P-108	PAVER TYPE 3	3/5L2.01
	P-109	PAVER TYPE 4	3/5L2.01
	P-110	CONCRETE RAMP WITH HANDRAIL	6/5L2.01

SOD — NATURAL GRASS AREA, SEE PLANTING PLAN FOR DETAILS & LAYOUT

P.A. — GENERAL PLANTING AREA; SEE PLANTING PLAN FOR DETAILS & LAYOUT

SAWCUT JOINT — SJ

SAWCUT CONSTRUCTION JOINT — SCCJ

EXPANSION JOINT — EJ

ROOT BARRIER

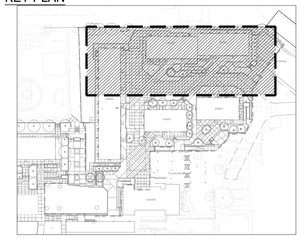
REFER TO 5L1.51 AND 5L1.52 FOR ALL VERTICAL AND EDGE CONDITIONS

REFER TO 5L1.01 AND 5L1.02 FOR ALL PAVING AND FLATWORK

SCHEDULE

CODE	DESCRIPTION
1	(E) RAMP AND HANDRAIL. PROTECT IN PLACE.
2	(E) CIP CONCRETE WALL. PROTECT IN PLACE.
3	(E) CANOPY. PROTECT IN PLACE.
4	(N) LUNCH SHELTER, SEE ARCH DRAWINGS
5	BUILDING OVERHANG, SEE ARCH DRAWINGS
6	CONDENSOR, SEE MEP DWGS
7	UTILITIES PER CIVIL
8	FENCE/ GATE PER ARCH DWGS
9	VENT, SEE ARCH DWGS
10	FIRE LANE
11	(E) WALL. PROTECT IN PLACE.
12	FIRE HYDRANT, SEE CIVIL DWGS
13	LIGHTING PER ELECTRICAL, SEE LIGHTING DWGS

KEY PLAN



N.T.S.

0 5 10 20

CONSTRUCTION PLAN 1" = 10' 1

NORTH

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03/20/2026	DSA V3

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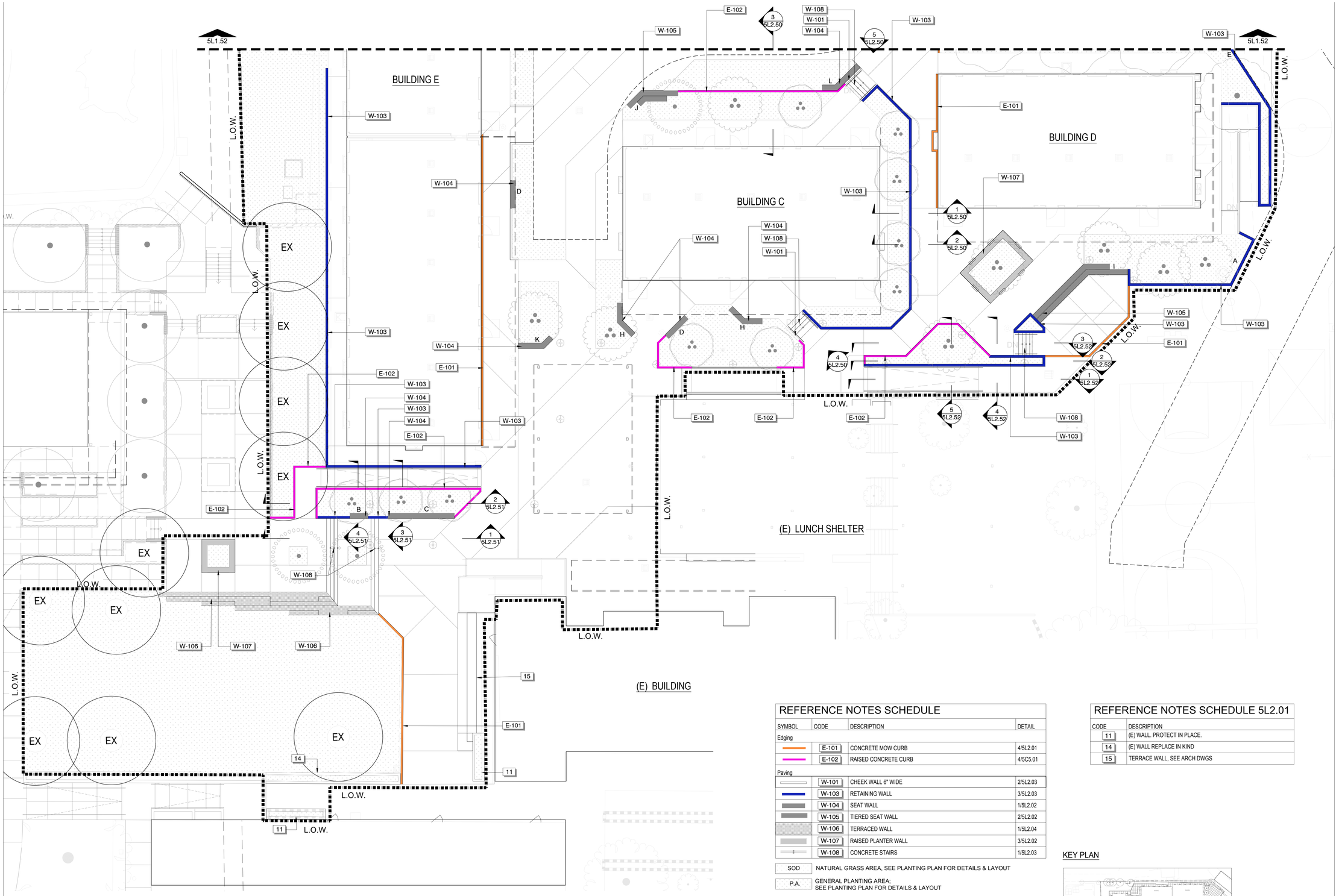
DRAWING TITLE

CONSTRUCTION PLAN

5L1.02

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM



REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Edging			
	E-101	CONCRETE MOW CURB	4/5L2.01
	E-102	RAISED CONCRETE CURB	4/5C5.01
Paving			
	W-101	CHEEK WALL 6" WIDE	2/5L2.03
	W-103	RETAINING WALL	3/5L2.03
	W-104	SEAT WALL	1/5L2.02
	W-105	TIERED SEAT WALL	2/5L2.02
	W-106	TERRACED WALL	1/5L2.04
	W-107	RAISED PLANTER WALL	3/5L2.02
	W-108	CONCRETE STAIRS	1/5L2.03
SOD		NATURAL GRASS AREA, SEE PLANTING PLAN FOR DETAILS & LAYOUT	
P.A.		GENERAL PLANTING AREA; SEE PLANTING PLAN FOR DETAILS & LAYOUT	

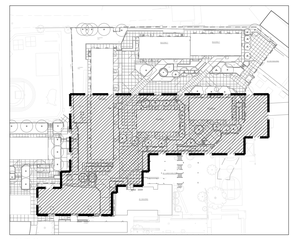
REFER TO 5L1.51 AND 5L1.52 FOR ALL VERTICAL AND EDGE CONDITIONS.
REFER TO 5L1.01 AND 5L1.02 FOR ALL PAVING AND FLATWORK.

A - L SEATWALL, SEE DETAIL 4/5L2.02 FOR LAYOUT.

REFERENCE NOTES SCHEDULE 5L2.01

CODE	DESCRIPTION
11	(E) WALL. PROTECT IN PLACE.
14	(E) WALL REPLACE IN KIND
15	TERRACE WALL, SEE ARCH DWGS

KEY PLAN



N.T.S.

0 5 10 20

WALLS, CURBS, AND EDGING PLAN 1" = 10' 1

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03/20/2026	DSA V3

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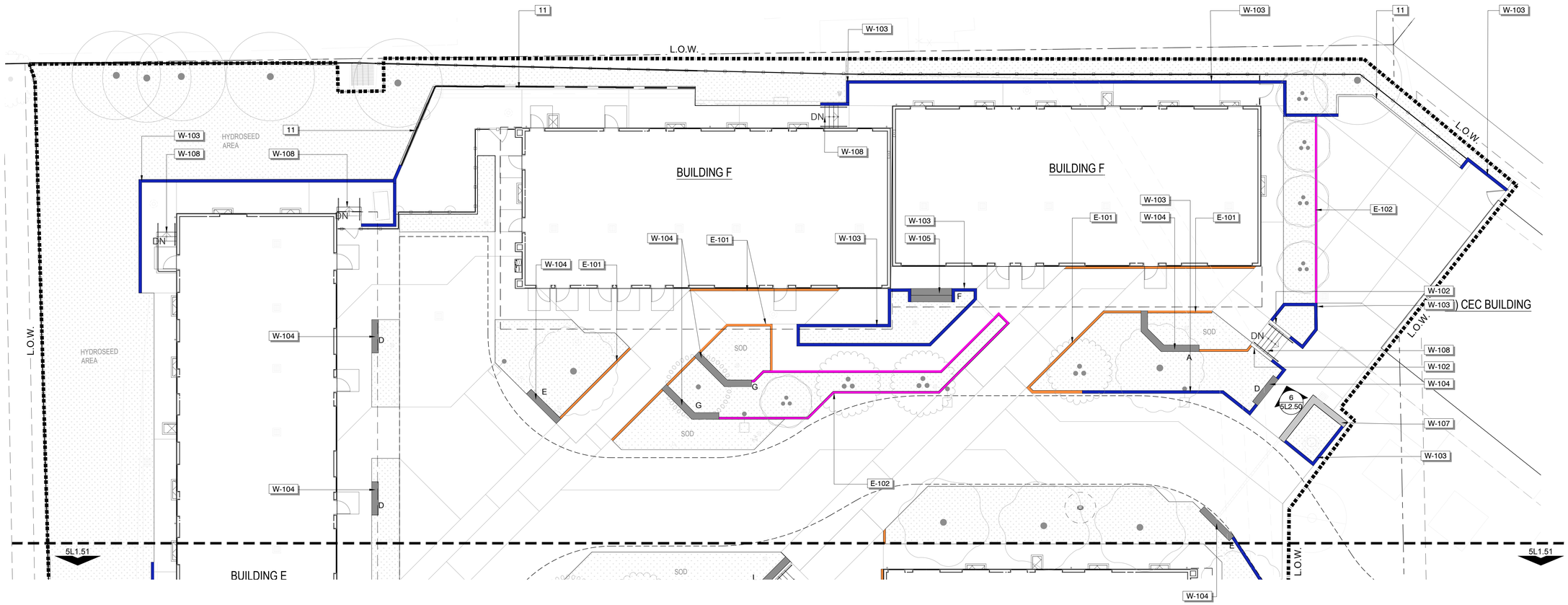
DRAWING TITLE

WALLS, CURBS AND EDGING PLAN

5L1.51

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM



REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Edging			
	E-101	CONCRETE MOW CURB	4/5L2.01
	E-102	RAISED CONCRETE CURB	4/5C5.01
Wall			
	W-102	CHEEK WALL 8" WIDE	2/5L2.03
	W-103	RETAINING WALL	3/5L2.03
	W-104	SEAT WALL	1/5L2.02
	W-107	RAISED PLANTER WALL	3/5L2.02
	W-108	CONCRETE STAIRS	1/5L2.03

KEY NOTE SCHEDULE

CODE	DESCRIPTION
11	(E) WALL. PROTECT IN PLACE.

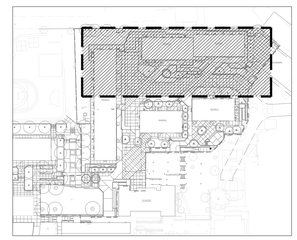
A - L SEATWALL, SEE DETAIL 4/5L2.02 FOR LAYOUT.

SOD NATURAL GRASS AREA, SEE PLANTING PLAN FOR DETAILS & LAYOUT

P.A. GENERAL PLANTING AREA;
SEE PLANTING PLAN FOR DETAILS & LAYOUT

REFER TO 5L1.51 AND 5L1.52 FOR ALL VERTICAL AND EDGE CONDITIONS.
REFER TO 5L1.01 AND 5L1.02 FOR ALL PAVING AND FLATWORK.

KEY PLAN



N.T.S.

0 5 10 20

WALLS, CURBS, AND EDGING PLAN 1" = 10' 1

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#.	REVISION DATE	DESCRIPTION

DRAWING TITLE

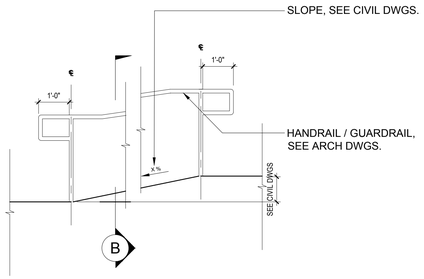
WALLS, CURBS AND EDGING PLAN

5L1.52

SCALE: AS INDICATED

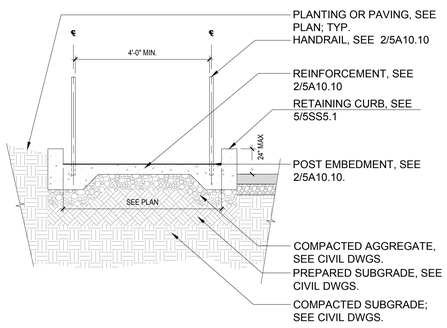
PLOT DATE 7/25/2025 9:23 AM

NOTE: CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2



A. ELEVATION

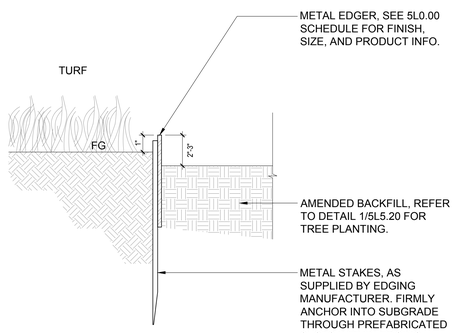
B. SECTION - CONDITION 2



B. SECTION - CONDITION 1

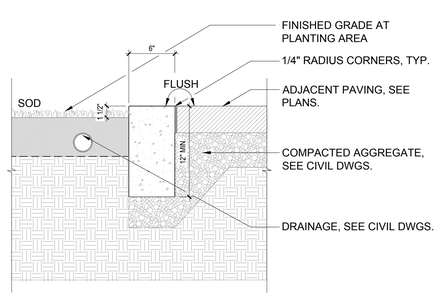
6 CONCRETE RAMP, TYP.

1/2" = 1'-0" P-PCE5-71



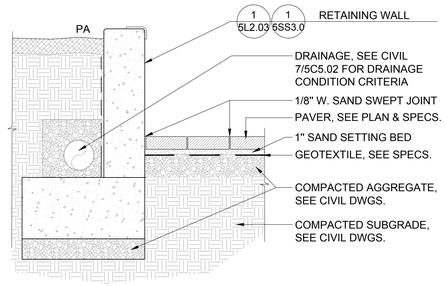
5 METAL EDGER

3" = 1'-0" P-PCE5-31

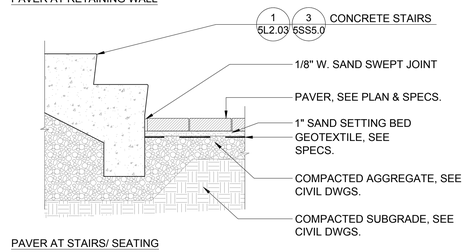


4 CONCRETE MOW CURB

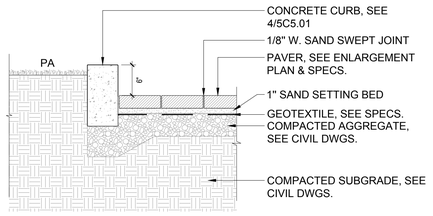
1 1/2" = 1'-0" P-PCE5-07



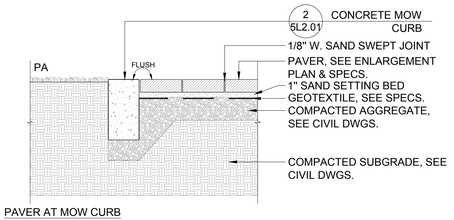
PAVER AT RETAINING WALL



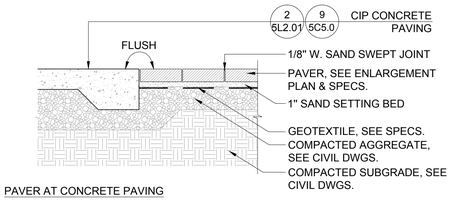
PAVER AT STAIRS/ SEATING



PAVER AT RAISED CONCRETE CURB



PAVER AT MOW CURB

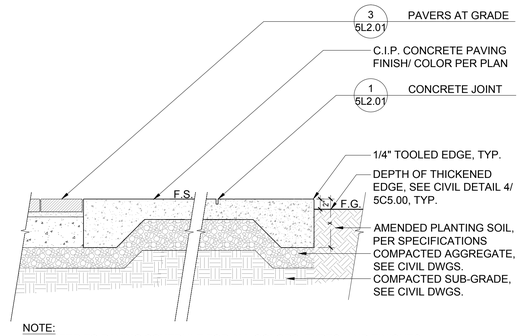


PAVER AT CONCRETE PAVING

NOTE:
1. SEE CONSTRUCTION SCHEDULE FOR PAVER FINISH AND COLOR
2. CONCTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING POINT OF BEGINNING FOR PAVER LAYOUT AND ANY ODD CUTS AND ANGLES.
3. SEE PLANS FOR EDGE CONDITIONS

3 PAVERS AT GRADE

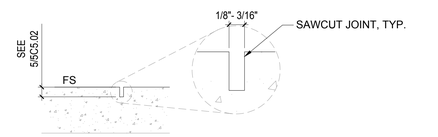
1" = 1'-0" P-PCE5-05



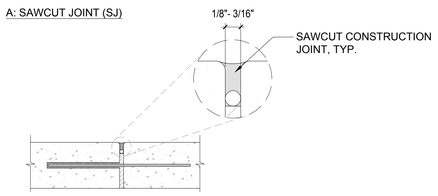
NOTE:
A. REFER TO PAVING SCHEDULE FOR ALL COLORS, TYPES, AND FINISHES.
B. REFER TO CONSTRUCTION PLAN FOR ALL JOINTING LOCATIONS.
C. REFER TO CIVIL DWGS FOR GRADING, THICKNESS, REINFORCEMENT, BASE COURSE, AND SUBGRADE PREPARATION.
D. FOR FIRE LANE VEHICULAR DEPTH, REFER TO CIVIL

2 C.I.P. CONCRETE PAVING

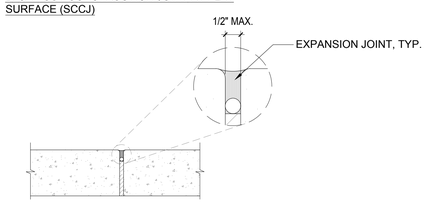
1" = 1'-0" P-PCE5-04



A: SAWCUT JOINT (SJ)



B: SAWCUT CONSTRUCTION JOINT AT FLAT SURFACE (SCCJ)



C: EXPANSION JOINT AT FLAT SURFACE



D: EXPANSION JOINT AT VERTICAL SURFACE

NOTES
1. REFER TO CONSTRUCTION PLAN FOR ALL JOINTING LOCATIONS.
2. REFER TO CIVIL DETAILS FOR ALL CONCRETE PAVING APPLICATIONS, FOR THICKNESS, REINFORCEMENT, BASE COURSE, SUBGRADE PREPARATION, AND CALCULATIONS.

1 CONCRETE JOINT

1 1/2" = 1'-0" P-PCE5-03

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ESTABLISHED 1885

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HONGJOO KIM NO. 5087
Signature
12/31/26
Renewal Date
03/20/26
Date
STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HENRY R. DRAKE
NO. C-014889
REN. 05-31-27
STATE OF CALIFORNIA

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12/05/2025	DSA V2
03/20/2026	DSA V3

REVISION DATE	DESCRIPTION

DRAWING TITLE

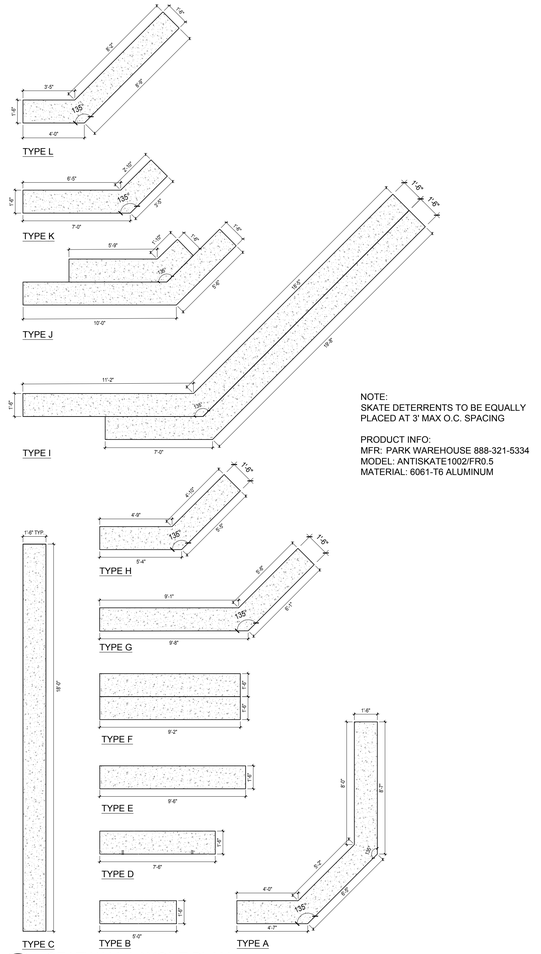
CONSTRUCTION DETAILS

5L2.01

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

NOTE: CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

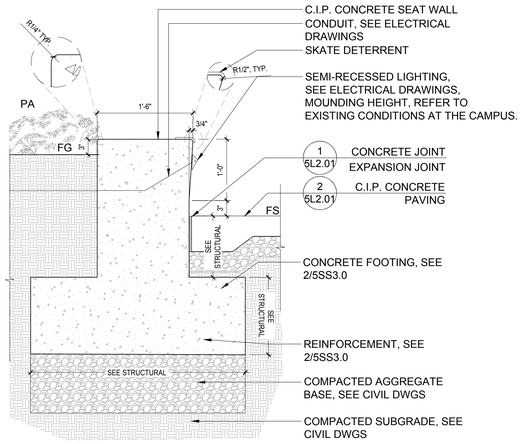


NOTE:
SKATE DETERRENTS TO BE EQUALLY PLACED AT 3' MAX O.C. SPACING

PRODUCT INFO:
MFR: PARK WAREHOUSE 888-321-5334
MODEL: ANTISKATE1002/FR0.5
MATERIAL: 6061-T6 ALUMINUM

4 SEATWALL LAYOUT PLAN

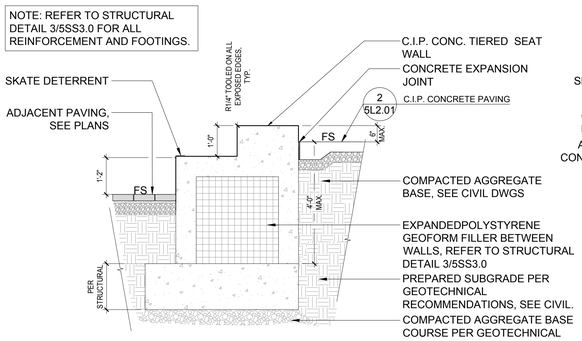
1/4" = 1'-0" P-PCE5-77



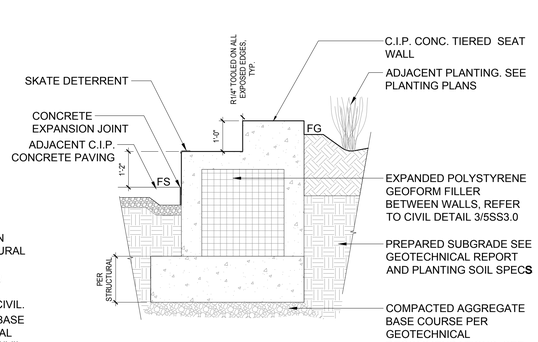
3 RAISED PLANTER WALL

1" = 1'-0" P-PCE5-75

NOTE: REFER TO STRUCTURAL DETAIL 3/5SS3.0 FOR ALL REINFORCEMENT AND FOOTINGS.



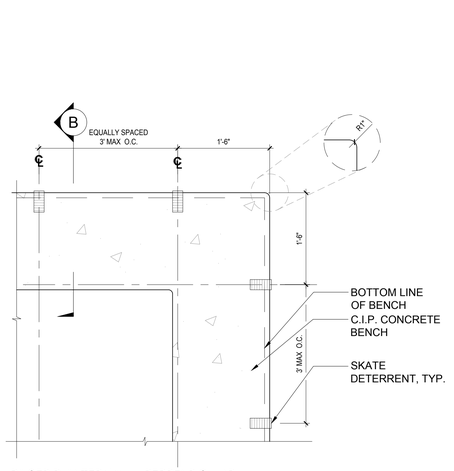
C.I.P. CONCRETE TIERED SEAT WALL TYPE A



C.I.P. CONCRETE TIERED SEAT WALL TYPE B

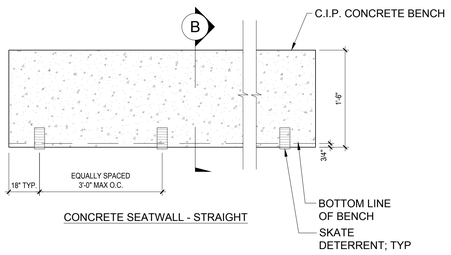
2 C.I.P. TIERED SEAT WALL TYPES

1/2" = 1'-0" P-PCE5-33



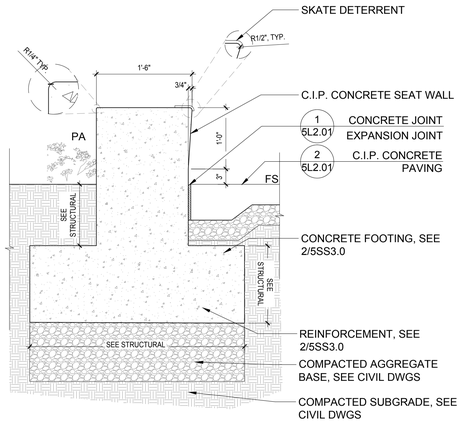
RAISED PLANTER WALL - PERPENDICULAR

CONCRETE BENCH - ANGLED

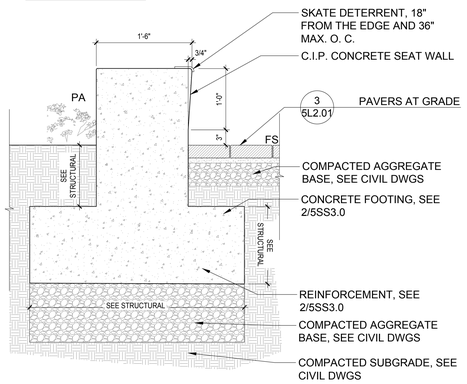


CONCRETE SEATWALL - STRAIGHT

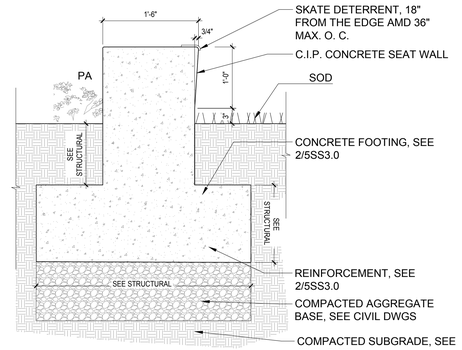
A. PLAN VIEW



AT CONCRETE PAVING



AT CONCRETE PAVER



AT TURF

NOTE:
SKATE DETERRENT PRODUCT INFO:
MFR: PARK WAREHOUSE 888-321-5334
MODEL: ANTISKATE1002/FR0.5
MATERIAL: 6061-T6 ALUMINUM

B. SECTION VIEW

1 C.I.P. CONCRETE SEAT WALL

1" = 1'-0" P-PCE5-34

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HONG100 KIM NO. 5087
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Renewal Date 12/31/26
Date 03/20/26
STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HENRY R. DRAKE
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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03/20/2026	DSA V3

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CONSTRUCTION DETAILS

5L2.02

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

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NOTE: CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2

A. STAIR TREAD - PLANS

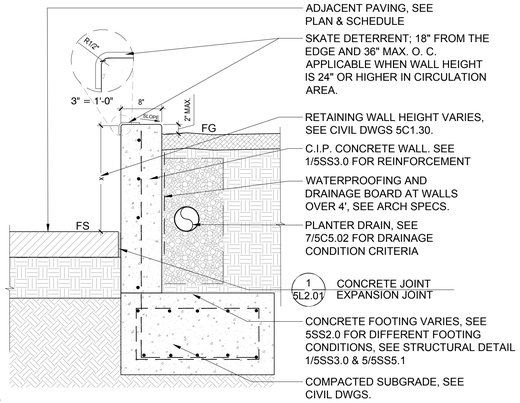
B. STAIR TREAD - ENLARGEMENT

NOTE

A. GROOVES REQUIRED AT EACH TOP APPROACH AND EACH TREAD OF ALL EXTERIOR STAIRS.
B. PROVIDE CONCRETE STAIN WITHIN GROOVES AS DIRECTED BY LANDSCAPE ARCHITECT TO ALLOW FOR CONTRASTING COLOR. PROVIDE FIELD MOCK UP FOR REVIEW. PROVIDE COLOR CHART FOR REVIEW PRIOR TO CONSTRUCTION FIELD MOCKUP.

4 STAIR WARNING STRIP

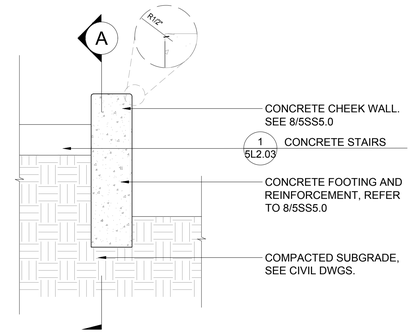
3" 1'-0"d P-PCE5-08



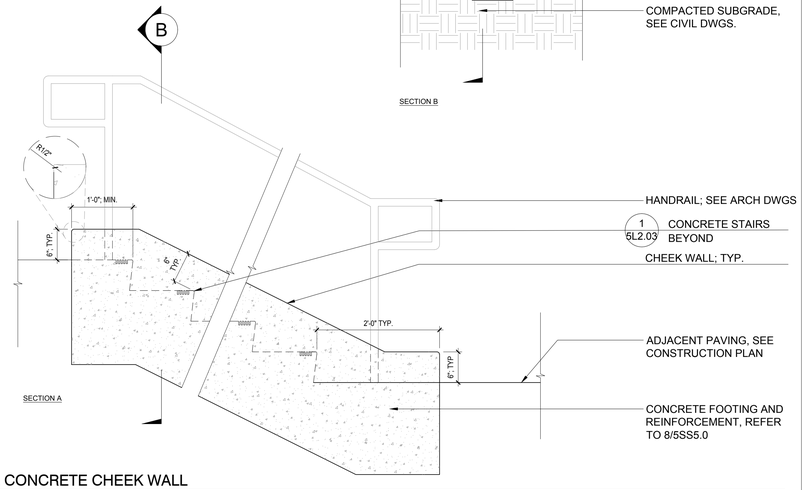
NOTE:
SKATE DETERRENT PRODUCT INFO:
MFR: PARK WAREHOUSE 888-321-5334
MODEL: ANTISKATE 1005/FA902-5
MATERIAL: 6061-T6 ALUMINUM

3 RETAINING WALL

1" 1'-0"d P-PCE5-99



SECTION B

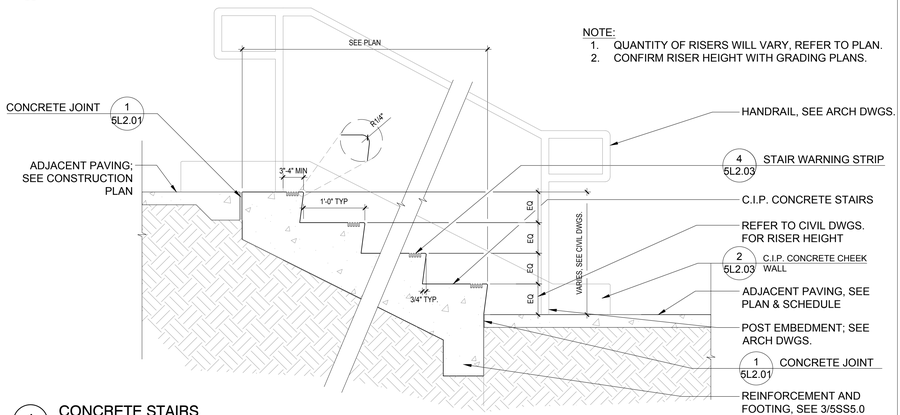


SECTION A

2 C.I.P. CONCRETE CHEEK WALL

1" 1'-0"d P-PCE5-43

NOTE:
1. QUANTITY OF RISERS WILL VARY, REFER TO PLAN.
2. CONFIRM RISER HEIGHT WITH GRADING PLANS.



1 CONCRETE STAIRS

1" 1'-0"d P-PCE5-35

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PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HARRY R DRAKE
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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03/20/2026	DSA V3

#	REVISION DATE	DESCRIPTION

DRAWING TITLE

CONSTRUCTION DETAILS

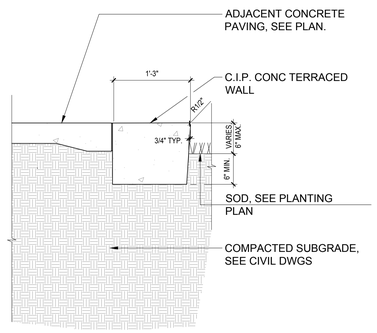
5L2.03

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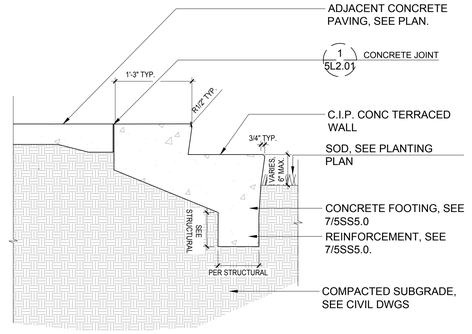
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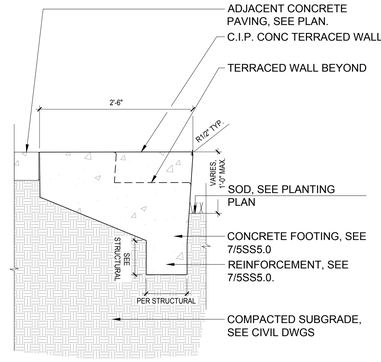
NOTE: CONCRETE SHOWN IS EXEMPT FROM BATCH PLANT INSPECTION PER CBC SECTION 1705A.3.3.2



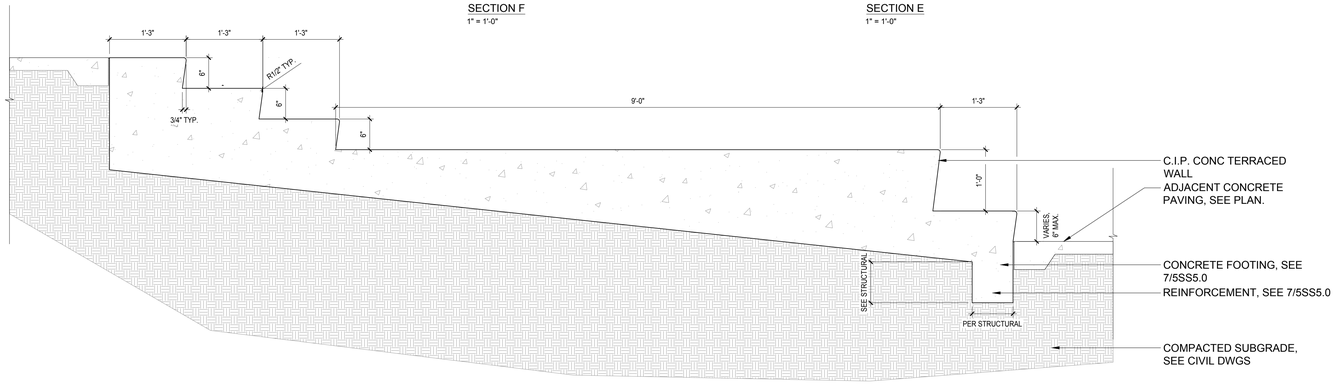
SECTION F
1" = 1'-0"



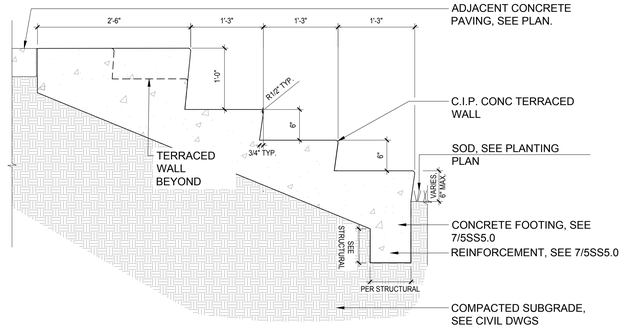
SECTION E
1" = 1'-0"



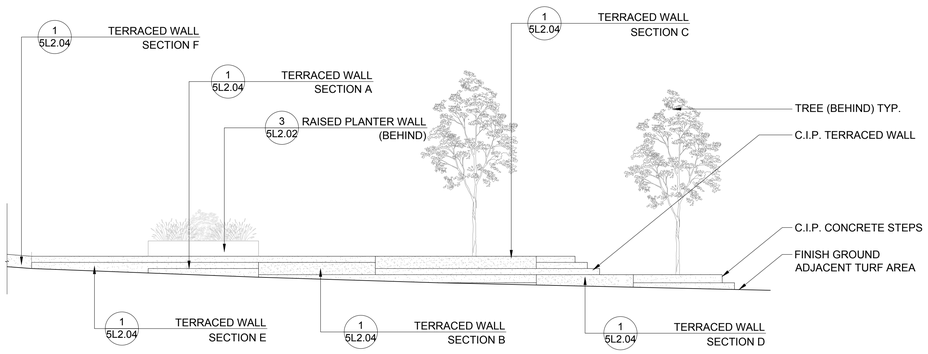
SECTION D
1" = 1'-0"



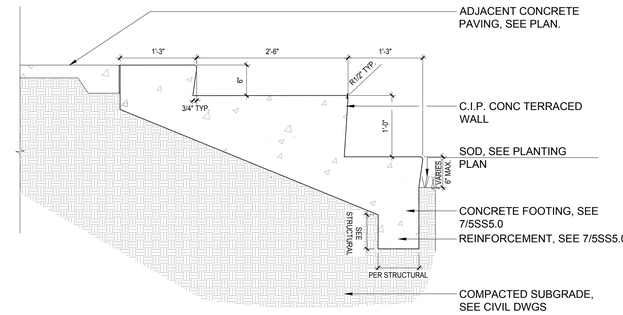
SECTION H
1" = 1'-0"



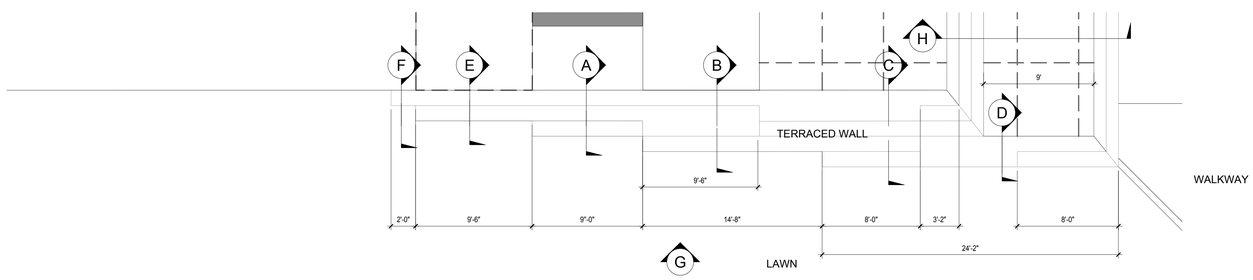
SECTION C
1" = 1'-0"



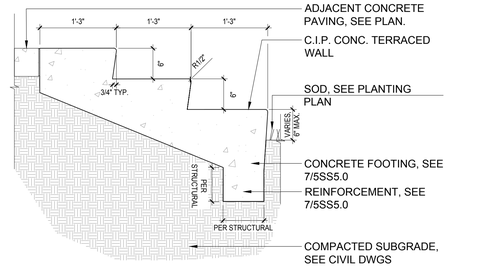
ELEVATION G
1" = 5'-0"



SECTION B
1" = 1'-0"



REFERENCE PLAN
1" = 10'-0"



SECTION A
1" = 1'-0"

1 TERRACED WALL
VARIES

P-PCE5-66

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03/20/2026	DSA V3

REVISION DATE	DESCRIPTION

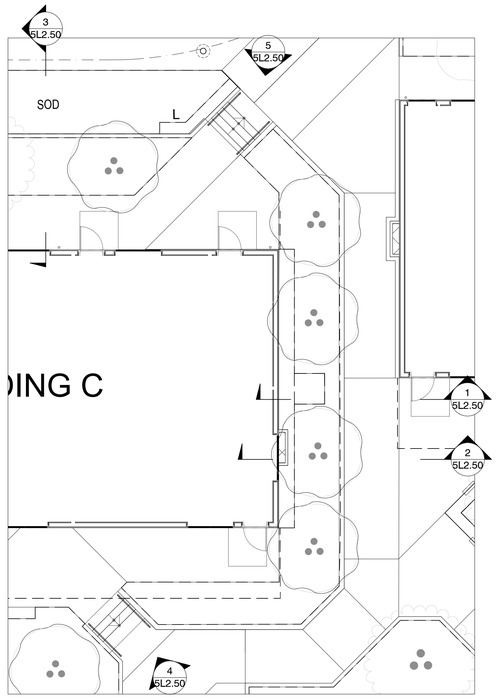
DRAWING TITLE

CONSTRUCTION DETAILS

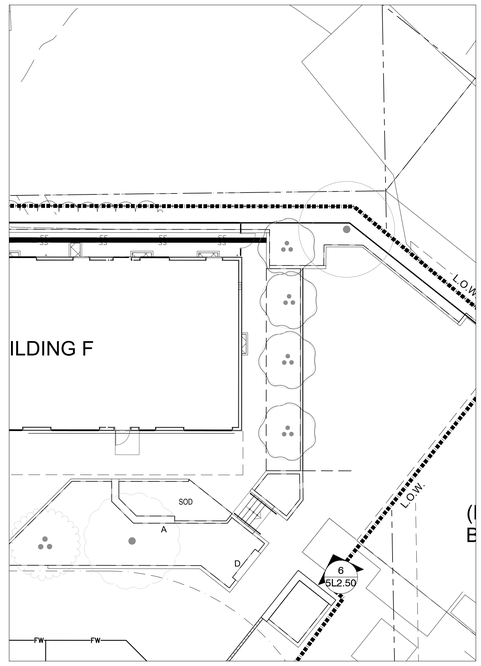
5L2.04

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

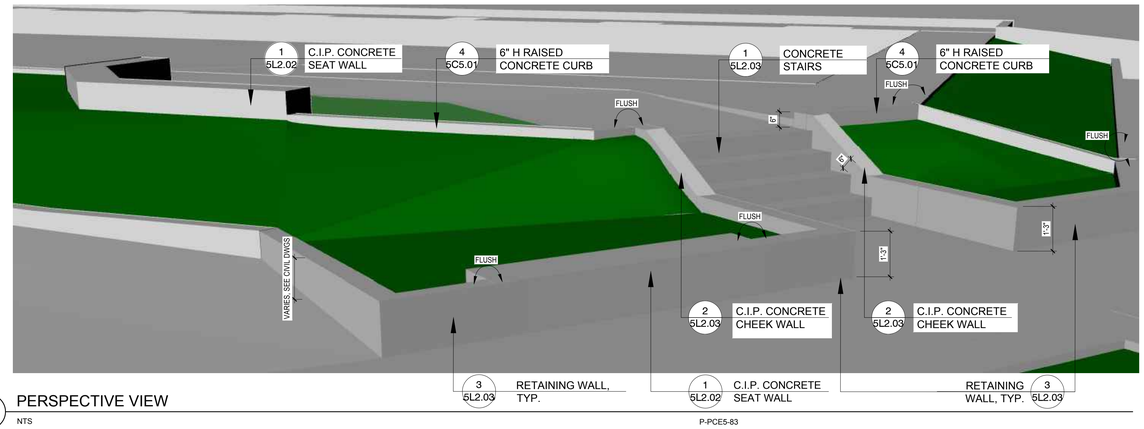


KEY PLAN 1 SCALE: 1/8" = 1'-0"

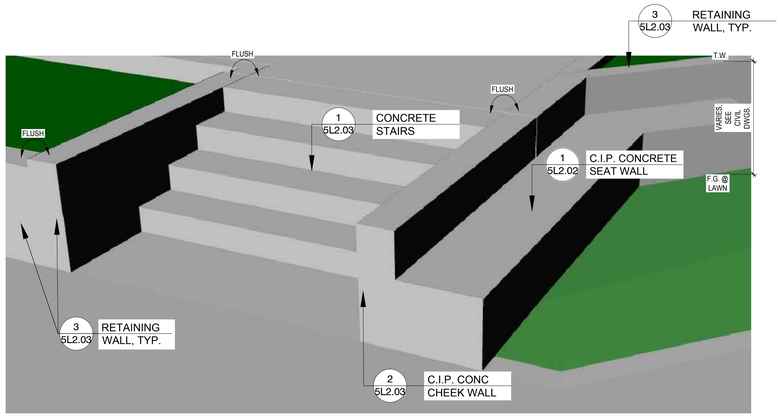


KEY PLAN 2 SCALE: 1/8" = 1'-0"

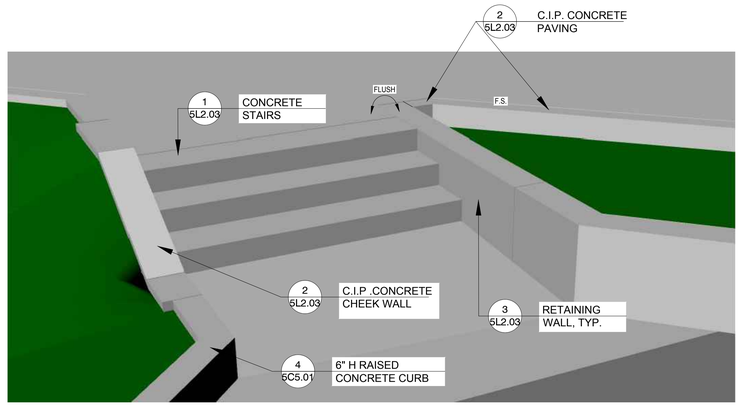
NOTES:
1. SECTIONS ARE INTENDED TO SHOW DESIGN INTENT ONLY.
2. 3D VIEWS ARE NOT INTENDED FOR CONSTRUCTION. 3D VIEWS ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY.



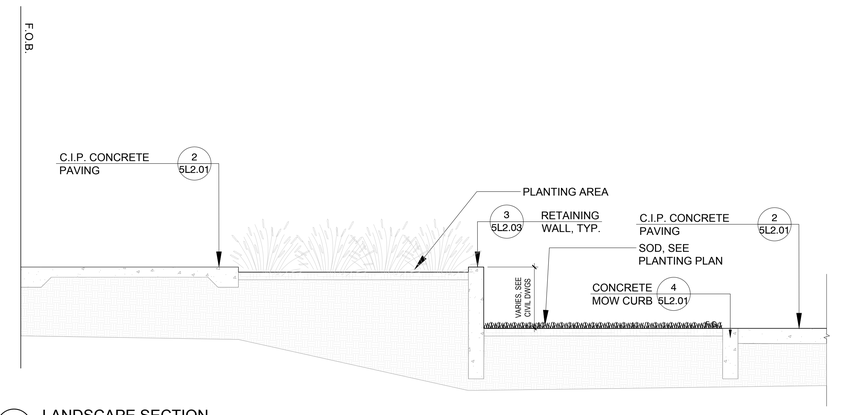
6 PERSPECTIVE VIEW
NTS P-PCE5-83



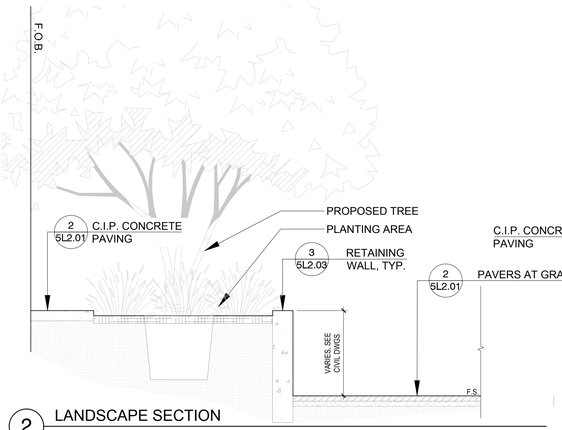
5 PERSPECTIVE VIEW
NTS P-PCE5-82



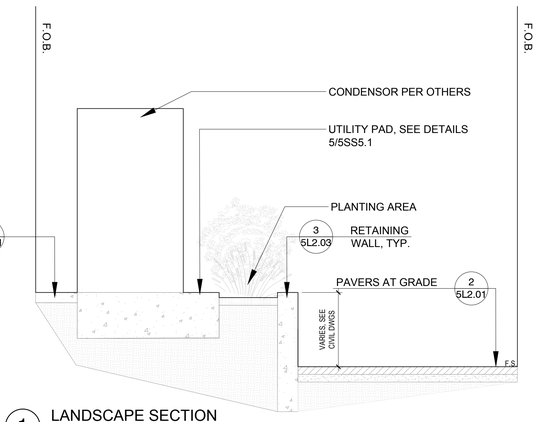
4 PERSPECTIVE VIEW
NTS P-PCE5-81



3 LANDSCAPE SECTION
1/2" = 1'-0" P-PCE5-80



2 LANDSCAPE SECTION
1/2" = 1'-0" P-PCE5-79



1 LANDSCAPE SECTION
1/2" = 1'-0" P-PCE5-78

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HONGJOO KIM NO. 5087
Signature
12/31/26
Renewal Date
03/20/26
Date
STATE OF CALIFORNIA

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HARRY R GRAEF
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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07/05/2024	50% DESIGN DEVELOPMENT
08/16/2024	100% DESIGN DEVELOPMENT
04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/05/2025	DSA V2
03/20/2026	DSA V3

#.	REVISION DATE	DESCRIPTION

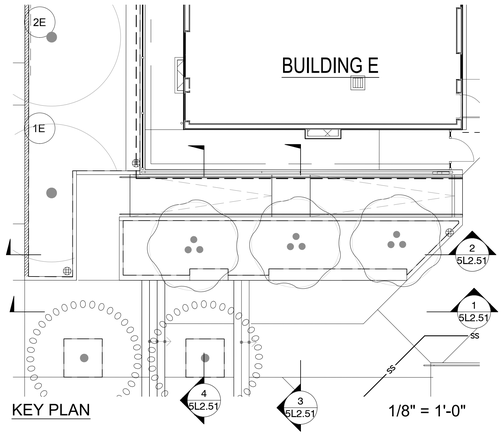
DRAWING TITLE

SITE SECTIONS AND ELEVATIONS

5L2.50

SCALE: AS INDICATED

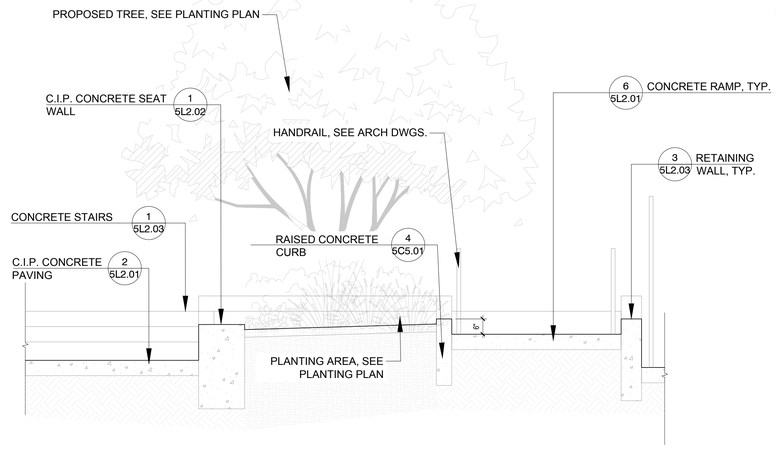
PLOT DATE 7/25/2025 9:23 AM



KEY PLAN

1/8" = 1'-0"

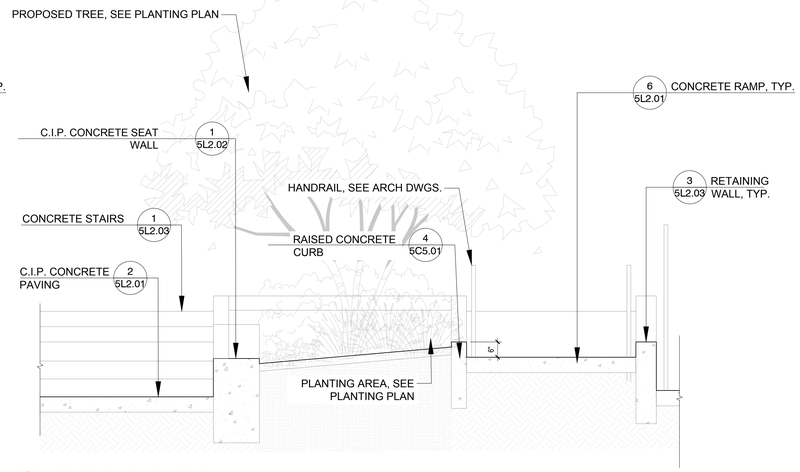
NOTES:
1. SECTIONS ARE INTENDED TO SHOW DESIGN INTENT ONLY.



4 SECTION ELEVATION

1/2" = 1'-0"

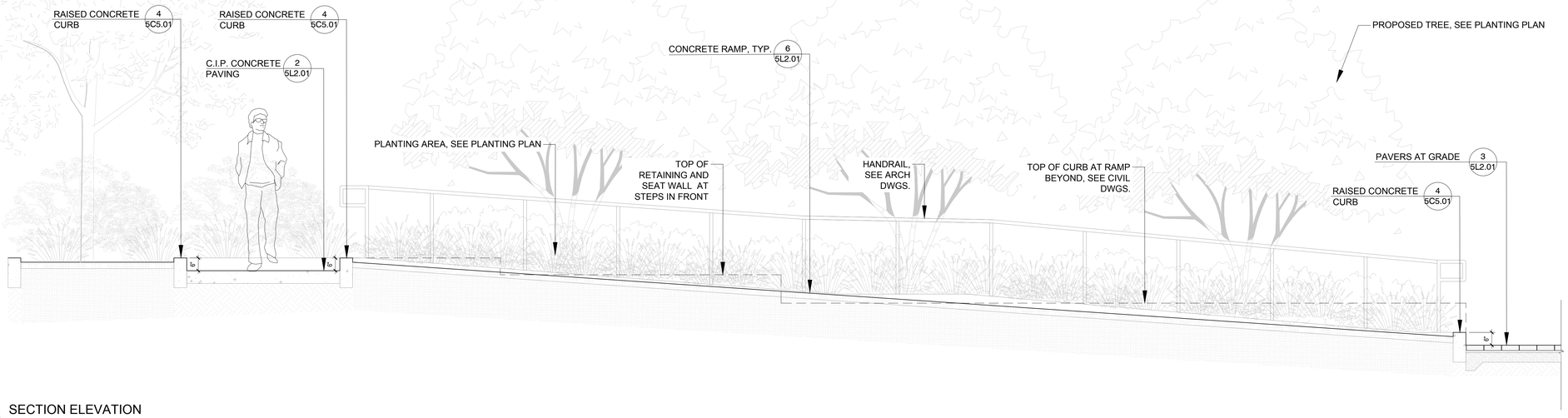
P-PCE5-87



3 SECTION ELEVATION

1/2" = 1'-0"

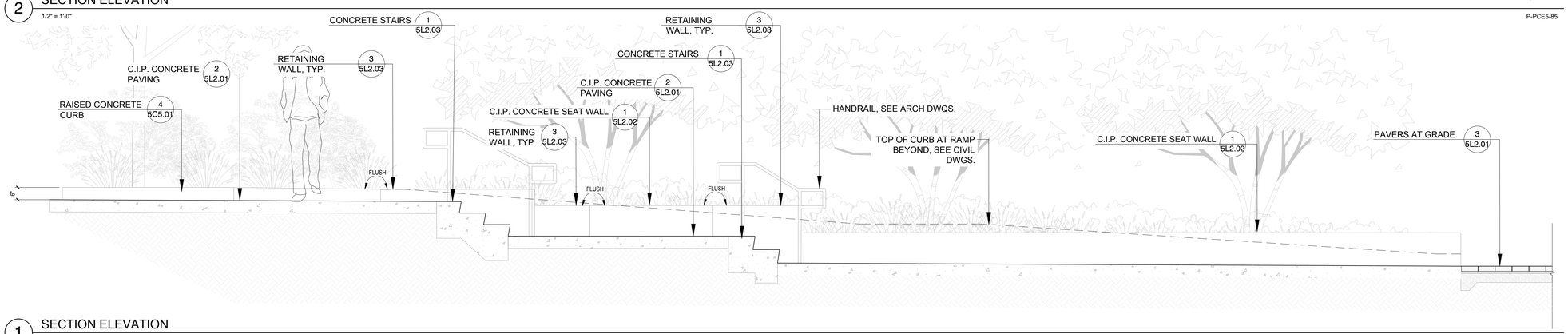
P-PCE5-86



2 SECTION ELEVATION

1/2" = 1'-0"

P-PCE5-85



1 SECTION ELEVATION

1/2" = 1'-0"

P-PCE5-84

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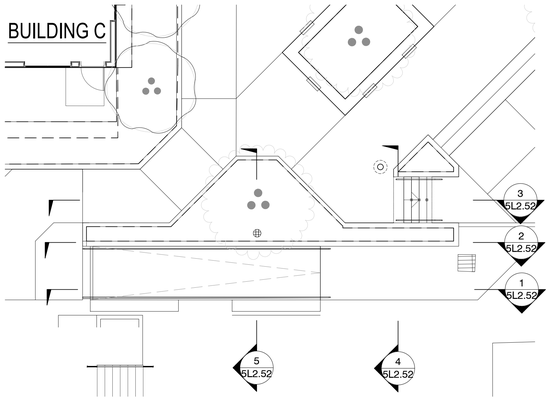
DRAWING TITLE

SITE SECTIONS

5L2.51

SCALE: AS INDICATED

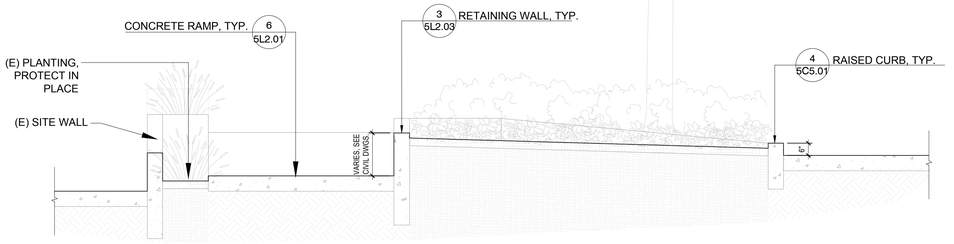
PLOT DATE 7/25/2025 9:23 AM



KEY PLAN

1/8" = 1'-0"

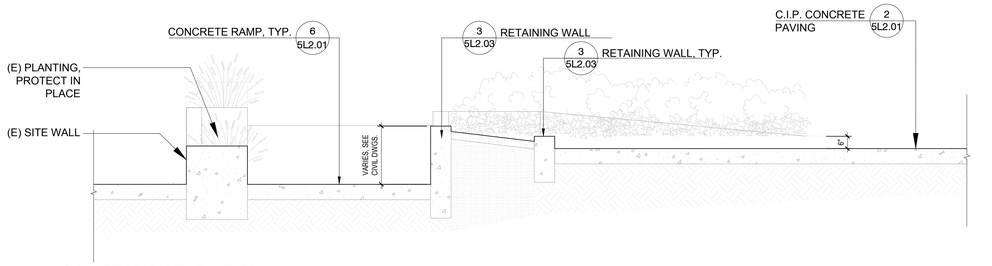
NOTES:
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5 SECTION ELEVATION

1/2" = 1'-0"

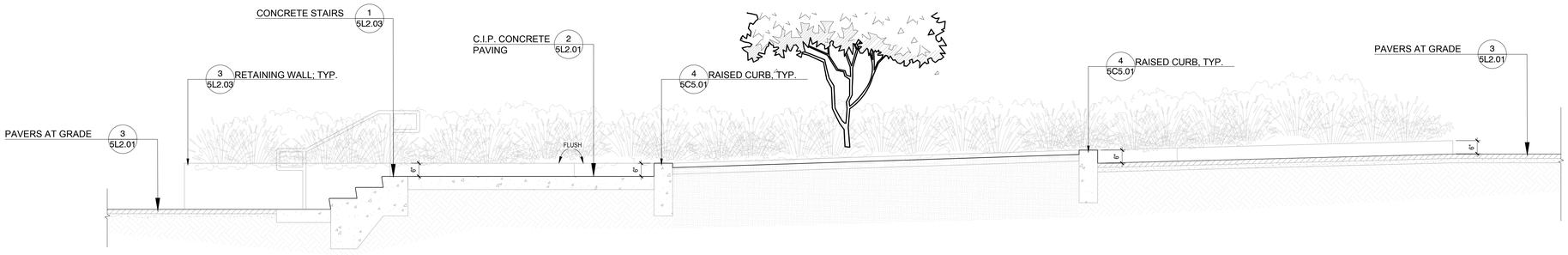
P-PCE5-92



4 SECTION ELEVATION

1/2" = 1'-0"

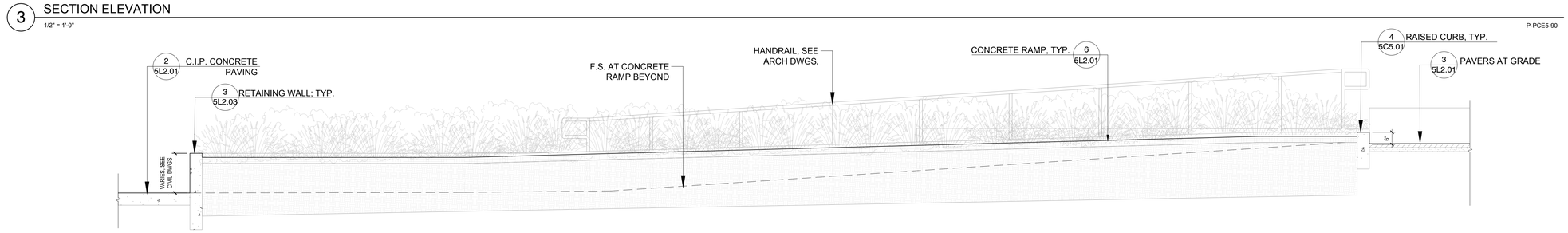
P-PCE5-91



3 SECTION ELEVATION

1/2" = 1'-0"

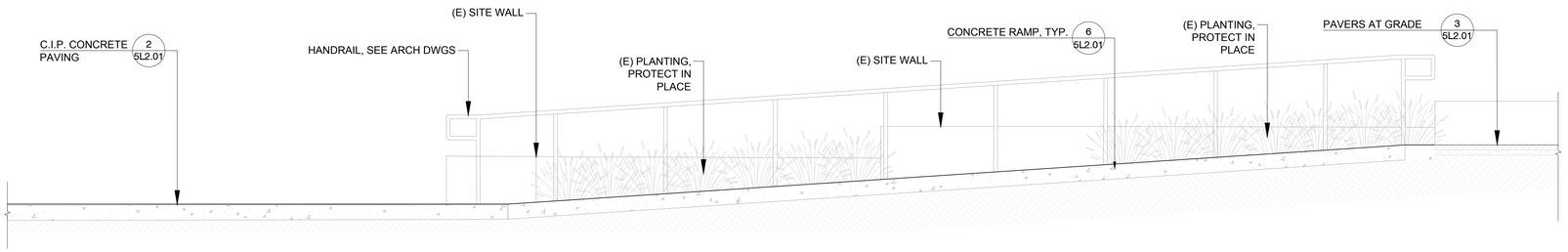
P-PCE5-90



2 SECTION ELEVATION

1/2" = 1'-0"

P-PCE5-89



1 SECTION ELEVATION

1/2" = 1'-0"

P-PCE5-88

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#.	REVISION DATE	DESCRIPTION

DRAWING TITLE

SITE SECTIONS

5L2.52

SCALE: AS INDICATED

PLOT DATE 7/25/2025 9:23 AM

IRRIGATION COORDINATION

1. IRRIGATION SYSTEM WATER AND 2WIRE POINT OF CONNECTION FROM STUB UP AND 2WIRE PULL BOX. SEE PLAN FOR EXACT LOCATION.
2. PROPOSED IRRIGATION SYSTEM WILL HAVE EXISTING BACKFLOW, MASTER VALVE AND FLOW SENSOR.
3. EXISTING CONTROLLER FROM IS A SMART IRRIGATION CONTROLLER.
4. PROPOSED IRRIGATION VALVES TO BE ADDED AND PROGRAMMED TO EXISTING CONTROLLER PER OVERALL PLAN.
5. 2WIRE WIRING BETWEEN THE VALVES AND EXISTING CONTROLLER. EACH VALVE TO GET A SINGLE STATION DECODER. SEE CONTROLLER INFORMATION NOTES THIS PAGE FOR MODEL AND MANUFACTURER.
6. THE IRRIGATION CONTROL VALVES SHALL BE INSTALLED WITHIN THE PLANTER AREA AS INDICATED ON THE PLAN.
7. CONTROLLER REMOTE ACCESSIBLE THROUGH CENTRALUS CLOUD SOFTWARE.
8. CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE PROPOSED MAINLINE TO RECONNECT TO EXISTING MAINLINE OUTSIDE OF LIMIT WORK. EXISTING IRRIGATION OUTSIDE OF LIMIT OF WORK TO REMAIN OPERATIONAL DURING CONSTRUCTION.

HYDROZONE TABLE

VALVE #	EMISSION TYPE	FLOW RATE	APPLICATION RATE	OPERATING PRESSURE	HYDROZONE	AREA	RUN TIMES
41	DRIP	1 GPM	.96 in/hr	30	MED	96 SQFT	16 min
42	MP ROTATOR	7 GPM	.80 in/hr	40	HIGH/SLA	1528 SQFT	20 min
43	MP ROTATOR	28 GPM	.80 in/hr	40	HIGH/SLA	1528 SQFT	20 min
44	MP ROTATOR	16 GPM	.80 in/hr	40	HIGH/SLA	1528 SQFT	20 min
45	BUBBLER	3 GPM	-	30	LOW	12 SQFT	3 min
46	DRIP	4 GPM	.96 in/hr	30	LOW	418 SQFT	13 min
47	DRIP	4 GPM	.96 in/hr	30	LOW	434 SQFT	13 min
48	DRIP	6 GPM	.96 in/hr	30	LOW	550 SQFT	13 min
49	DRIP	3 GPM	.96 in/hr	30	MED	301 SQFT	16 min
50	BUBBLER	6 GPM	-	30	LOW	24 SQFT	3 min
51	DRIP	4 GPM	.96 in/hr	30	MED	443 SQFT	16 min
52	DRIP	4 GPM	.96 in/hr	30	MED	424 SQFT	16 min
53	BUBBLER	4 GPM	-	30	LOW	16 SQFT	3 min
54	DRIP	4 GPM	.96 in/hr	30	MED	440 SQFT	16 min
55	DRIP	4 GPM	.96 in/hr	30	MED	351 SQFT	16 min
56	BUBBLER	7 GPM	-	30	LOW	28 SQFT	3 min
57	DRIP	4 GPM	.96 in/hr	30	MED	369 SQFT	13 min
58	DRIP	4 GPM	.96 in/hr	30	MED	413 SQFT	16 min
59	DRIP	4 GPM	.96 in/hr	30	HIGH/SLA	366 SQFT	20 min
60	DRIP	3 GPM	.96 in/hr	30	HIGH/SLA	317 SQFT	20 min
61	DRIP	3 GPM	.96 in/hr	30	MED	306 SQFT	16 min
62	BUBBLER	3 GPM	-	30	LOW	12 SQFT	3 min
63	DRIP	2 GPM	.96 in/hr	30	MED	224 SQFT	16 min
64	BUBBLER	3 GPM	-	30	LOW	12 SQFT	3 min
65	DRIP	1 GPM	.96 in/hr	30	HIGH/SLA	115 SQFT	20 min
66	BUBBLER	5 GPM	-	30	MED	63 SQFT	5 min
67	DRIP	9 GPM	.96 in/hr	30	MED	901 SQFT	16 min
68	DRIP	5 GPM	.96 in/hr	30	LOW	463 SQFT	13 min
69	BUBBLER	3 GPM	-	30	LOW	12 SQFT	3 min
70	DRIP	6 GPM	.96 in/hr	30	MED	646 SQFT	16 min
71	DRIP	3 GPM	.96 in/hr	30	MED	324 SQFT	16 min
72	BUBBLER	3 GPM	-	30	LOW	12 SQFT	3 min
73	DRIP	3 GPM	.96 in/hr	30	MED	328 SQFT	16 min
74	ROTOR	16 GPM	.6 in/hr	45	LOW	2096 SQFT	18 min
75	ROTOR	19 GPM	.6 in/hr	45	LOW	2096 SQFT	18 min
76	DRIP	9 GPM	.96 in/hr	30	MED	858 SQFT	16 min

WATER EFFICIENT LANDSCAPE WORKSHEET

DATE:	12/2/2025	WUCOLS ZONE:	South Coastal	LA Sq. Ft. :	21,840
PROJECT:	PCYES Package 05				
CITY:	La Canada Flintridge	CIMIS ETo REF. CITY:	La Canada Flintridge	SLA Sq. Ft. :	4,584
CLIENT:	Paradise Canyon Elementary				
PREPARED BY:	Hongjoo Kim Landscape Architects	Annual Eto:	51.7		

Point of Connection - 1

MAXIMUM APPLIED WATER ALLOWANCE

	ETo		Total Area		SLA Area		MAWA
Landscape Irrigation MAWA	51.7 x 0.62	x (	17,256 x 0.45	+	4,584 x 0.6	) =	329,720

ESTIMATED APPLIED WATER USE

	ETo		Area	PF	IE		ETWU
Special Landscaped Area	51.7 x 0.62	x (	4,584 x	1.0 /	1.00	) =	146,936
A41 - Low Shrubs - Drip	51.7 x 0.62	x (	96 x	0.4 /	0.81	) =	1,520
A42 - High Turf - MP Rotators See Above	51.7 x 0.62	x (	0 x	0.3 /	0.81	) =	0
A43 - High Turf - MP Rotators See Above	51.7 x 0.62	x (	0 x	0.3 /	0.75	) =	0
A44 - High Turf - MP Rotators See Above	51.7 x 0.62	x (	0 x	0.3 /	0.75	) =	0
A45 - Low Trees - Bubbler	51.7 x 0.62	x (	12 x	0.3 /	0.81	) =	142
A46 - Low Shrubs - Drip	51.7 x 0.62	x (	418 x	0.3 /	0.81	) =	4,962
A47 - Low Shrubs - Drip	51.7 x 0.62	x (	434 x	0.3 /	0.81	) =	5,152
A48 - Low Shrubs - Drip	51.7 x 0.62	x (	550 x	0.3 /	0.81	) =	6,530
A49 - Med Shrubs - Drip	51.7 x 0.62	x (	301 x	0.4 /	0.81	) =	4,765
A50 - Low Trees - Bubbler	51.7 x 0.62	x (	24 x	0.3 /	0.81	) =	285
A51 - Med Shrubs - Drip	51.7 x 0.62	x (	443 x	0.4 /	0.81	) =	7,012
A52 - Med Shrubs - Drip	51.7 x 0.62	x (	424 x	0.4 /	0.81	) =	6,712
A53 - Low Trees - Bubbler	51.7 x 0.62	x (	16 x	0.3 /	0.81	) =	190
A54 - Med Shrubs - Drip	51.7 x 0.62	x (	440 x	0.4 /	0.81	) =	6,965
A55 - Med Shrubs - Drip	51.7 x 0.62	x (	351 x	0.4 /	0.81	) =	5,556
A56 - Low Trees - Bubbler	51.7 x 0.62	x (	28 x	0.3 /	0.81	) =	332
A57 - Med Shrubs - Drip	51.7 x 0.62	x (	369 x	0.4 /	0.81	) =	5,841
A58 - Med Shrubs - Drip	51.7 x 0.62	x (	413 x	0.4 /	0.81	) =	6,537
A59 - High Turf - Drip SLA See Above	51.7 x 0.62	x (	0 x	0.3 /	0.81	) =	0
A60 - High Turf - Drip SLA See Above	51.7 x 0.62	x (	0 x	0.3 /	0.81	) =	0
A61 - Med Shrubs - Drip	51.7 x 0.62	x (	306 x	0.4 /	0.81	) =	4,844
A62 - Low Trees - Bubbler	51.7 x 0.62	x (	12 x	0.3 /	0.81	) =	142
A63 - Med Shrubs - Drip	51.7 x 0.62	x (	224 x	0.4 /	0.81	) =	3,546
A64 - Low Trees - Bubbler	51.7 x 0.62	x (	12 x	0.3 /	0.81	) =	142
A65 - High Turf - Drip SLA See Above	51.7 x 0.62	x (	0 x	0.3 /	0.81	) =	0
A66 - Med Trees - Bubbler	51.7 x 0.62	x (	63 x	0.4 /	0.81	) =	997
A67 - Med Shrubs - Drip	51.7 x 0.62	x (	901 x	0.4 /	0.81	) =	14,262
A68 - Low Shrubs - Drip	51.7 x 0.62	x (	463 x	0.3 /	0.81	) =	5,497
A69 - Low Trees - Bubbler	51.7 x 0.62	x (	12 x	0.3 /	0.81	) =	142
A70 - Med Shrubs - Drip	51.7 x 0.62	x (	646 x	0.4 /	0.81	) =	10,226
A71 - Med Shrubs - Drip	51.7 x 0.62	x (	324 x	0.4 /	0.81	) =	5,129
A72 - Low Trees - Bubbler	51.7 x 0.62	x (	12 x	0.3 /	0.81	) =	142
A73 - Med Shrubs - Drip	51.7 x 0.62	x (	328 x	0.4 /	0.81	) =	5,192
A74 - Low Shrubs - Rotors	51.7 x 0.62	x (	2,096 x	0.3 /	0.75	) =	26,874
A75 - Low Shrubs - Rotors	51.7 x 0.62	x (	2,096 x	0.3 /	0.75	) =	26,874
A76 - Med Shrubs - Drip	51.7 x 0.62	x (	858 x	0.4 /	0.81	) =	13,581
			17,256		**TOTAL ETWU**	=	**327,028**

ETWU is less than MAWA

RUN TIMES ARE SET FOR THE HOTTEST DAY OF THE YEAR. DISABLE VIRTUAL SOLAR SYNC FUNCTION FOR FIRST 60 DAYS OF ESTABLISHMENT PERIOD. ENABLE SOLAR SYNC FUNCTION IN HYDRAWISE APP. SMART CONTROLLER WILL MAKE RUN TIME ADJUSTMENTS PER LIVE WEATHER DATA FROM INTERNET.

PROGRAM START TIMES:
RUN ALL STATIONS EVERY DAY FOR THE FIRST 30 DAYS.
ADJUST PROGRAM START TIMES FOR EVERY OTHER DAY FOR FOLLOWING 60 DAYS. AFTER 90 DAY MAINTENANCE PERIOD, ADJUST PROGRAM START TIMES TO THE FOLLOWING

SHRUB ZONES : MONDAY, WEDNESDAY, FRIDAY.

CONTRACTOR TO CONFIRM WITH FACILITIES MANAGER FINAL START TIMES FOR IRRIGATION PROGRAMS AT THE COMPLETION OF PROJECT.

GENERAL IRRIGATION NOTES

1. The irrigation contractor shall be responsible for familiarizing themselves with all differences in grade, location of seatwalls, location of retaining walls, etc. The contractor shall be responsible for coordinating all irrigation work with the general contractor, electrical contractor, and all other subcontractors for the location and the installation of irrigation related sleeves through walls, structures, under roadways, paving, etc.
2. The irrigation design presented in these documents is intended to be diagrammatic. All irrigation equipment, piping and valve locations, etc. shown within paved areas are for design clarification and shall only be installed in planting areas. Irrigation contractor shall install all remote control valves, quick couplers, and gate valves, in shrub planting areas or as approved by owner's representative & the landscape irrigation designer. Avoid any conflicts between the sprinkler system, planting and architectural features.
3. The irrigation system design is based upon the minimum operating pressure and the maximum flow demand shown on the irrigation drawings at each point of connection. The irrigation contractor shall verify water pressure prior to construction. Any difference between the water pressure indicated on the drawings and the actual pressure reading at the irrigation point of connection shall be immediately reported in writing to the owner's authorized representative. If the pressure differences are not immediately reported prior to beginning construction, the irrigation contractor shall assume full responsibility for all revisions to the irrigation system deemed necessary by the owner's representative and all costs associated with those revisions.
4. When it is apparent to the landscape contractor in the field that obstructions, grade differences, or differences in the calculated area dimensions exist that may have not been considered in the design of the system, the irrigation contractor shall not willfully install the irrigation system as indicated on the construction drawings. The owner's authorized representative shall be notified in writing of any such obstructions or differences prior to beginning any irrigation installation. If notification is not received prior to beginning installation, the irrigation contractor shall assume full responsibility for all revisions to the irrigation system as deemed necessary by owner's representative and all costs associated with those revisions.
5. The irrigation contractor shall be responsible for installing all control wire sleeving of sufficient size, under all paved areas in addition to the control wire sleeving shown on the drawings.
6. All piping and equipment shall be installed per the irrigation details. Teflon tape or Teflon pipe dope shall be applied to all male PVC pipe threads on all irrigation valve assemblies.
7. All pop-up style irrigation heads located in in shrub or groundcover areas shall be installed so the top of the irrigation head is 1" above finish grade.
8. All pop-up style irrigation heads to be located in turf areas shall initially be installed so the top of the irrigation heads are flush with the adjacent sidewalk or curb. Within 10 days of being notified by the owner's representative, the irrigation contractor shall be responsible for adjusting all turf irrigation heads so the top of the irrigation head is 1/2" above finish grade.
9. The irrigation contractor shall be responsible for flushing and adjusting all irrigation heads for optimum performance and to prevent over spray onto areas not intended for irrigation. This shall include throttling the flow control at each valve to obtain the optimum operating pressure for each system.
10. The irrigation contractor shall be responsible for adjusting the pressure regulator on each electric control valve so the irrigation head farthest and highest in elevation from its associated control valve functions within the operating pressure shown on the irrigation legend (not to exceed 5 PSI above the indicated operating pressure).
11. When installing spray nozzles that require arc patterns other than the standard arc patterns (e.g., 360°, 180°, and 90°), the contractor shall use the appropriate fixed arc pattern (e.g. 120°, 240°, 270°). The contractor shall use Hunter Pro Adjustable nozzles when installing irrigation heads on Pro Spray Bodies only when required pattern is not one of the fixed arc patterns. Select the radius of van nozzles to match site conditions.
12. The irrigation contractor shall be responsible for making field adjustments to the irrigation system by installing a quarter circle or half circle sprinkler head on each side of any vertical element (props, street lights, trees, etc.) which prevents proper coverage by interfering with the spray pattern of the irrigation head. All adjustments shall be made at no additional costs to the owner.
13. Drainage of irrigation water through spray head will not be allowed. Hunter check valve feature shall be used to prevent spray head drainage. During construction, the contractor shall change spray bodies with Hunter Check Valve features for spray heads showing signs of draining after the irrigation system has operated from an ON to OFF position. Installation of Hunter Check Valve feature shall be included in the Bid Price of the irrigation system.
14. The irrigation contractor shall be responsible for making the final connection between the power source and the automatic controller. 120 volt electrical power source shall be provided by others at the automatic controller location.
15. Adhesives, sealants and caulks shall meet local or regional air pollution control or south coast AQMD rule 1168 VOC and statewide VOC standards.

OBSERVATION SCHEDULING

The landscape contractor shall be schedule an irrigation site observation by the irrigation designer, and/or the owner's representative, which shall not occur without at least 48 hours prior notification. The following items shall be reviewed:

1. Pre-job/kick-off meeting with contractor, general contractor, and irrigation designer.
2. Mainline, basket strainers, master valves, flow sensors, booster pump installation and operation, installation review prior to backfilling trenches, irrigation mainline pressure test, etc.
3. Finalizing the location for the controller assemblies - landscape contractor shall coordinate with the irrigation designer to verify connection of flow sensors and associated equipment to each controller assembly and for certification/warranty of equipment.
4. Irrigation coverage test - a dynamic pressure test shall be performed by the landscape contractor and shall be observed by the owner (or the owner's representative) and the irrigation designer for each valve during the irrigation coverage test.

POINT OF CONNECTION NOTES

1. CONTRACTOR TO CONNECT TO EXISTING 3" STUB UP. INSTALL ISOLATION BALL VALVE AND MAINLINE AS CONTINUATION OF PROPOSED IRRIGATION SYSTEM. SOURCE OF WATER IS FROM DEDICATED LANDSCAPE METER WITH EXISTING BACKFLOW, MASTER VALVE AND FLOW SENSOR. VERIFY PRESSURE AT POINT OF CONNECTION IN THE FIELD PRIOR TO COMMENCE OF WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- STATIC WATER PRESSURE 80 PSI (ON SITE READING)
- DESIGN WATER PRESSURE 79
- MAXIMUM SYSTEM DEMAND 19 GPM
- RESIDUAL WATER PRESSURE 1 PSI

CONTROLLER INFORMATION

1. PROPOSED IRRIGATION ZONES SHALL BE ADDED TO EXISTING 2WIRE PATH FROM EXISTING PEDESTAL MOUNTED CONTROLLER SHOWN ON OVERALL PLAN. REFER TO LEGEND FOR MODEL AND STATION COUNT. THE CONTROLLER IS A SMART WEATHER BASED CONTROLLER.
2. WEATHER DATA AND RAIN SHUT OFF FROM EXISTING WIRELESS WEATHER/RAIN SENSOR MOUNTED OUTSIDE IN AN OPEN AREA OPEN TO THE SKY AND FREE FROM ANY OBSTRUCTIONS.
3. **INSTALLATION OF COLORED JACKETED 2 WIRE SHALL FOLLOW MAINLINE ROUTING. MODEL: HUNTER ID1ORG ORANGE JACKETED 2WIRE**
4. THE SYSTEM IS DESIGNED FOR THE OPERATION OF ONE VALVE AT A TIME PER CONTROLLER. THE SYSTEM HAS BEEN DESIGNED FOR ONE VALVE OPENING AND ONE VALVE CLOSING.

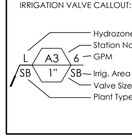
DRIP ZONE IRRIGATION NOTES

1. DRIP ZONES SHALL CONSIST OF SUPPLY AND EXHAUST HEADERS AND DRIP LINES TO BE SPACED PER MASTER IRRIGATION LEGEND. SNAKE PATTERN LAYOUT METHOD NOT ALLOWED.
2. ONE AIR RELIEF VALVE PER ZONE. LOCATION ON PLAN IS DIAGRAMMATIC AND TRUE LOCATION TO BE PLACED AT HIGHEST ELEVATION ON ZONE.
3. ONE MANUAL FLUSH VALVE PER SECTION IN ZONE. LOCATION ON PLAN IS DIAGRAMMATIC AND TRUE LOCATION TO BE PLACED AT LOWEST ELEVATION ON ZONE.
4. ONE DRIP OPERATION INDICATOR PER ZONE. LOCATION TO BE PLACED IN VISIBLE AREA FOR MAINTENANCE CREWS TO SPOT WHILE PERFORMING SCHEDULED MAINTENANCE CHECKS.
5. MAX DISTANCES FOR DRIP LINE PER DRIP LINE MANUFACTURER SPECIFICATIONS.
6. SECTIONS OF DRIP ZONES EXCEEDING 4' IN ELEVATION TO BE SPLIT INTO DIFFERENT SECTIONS. LATERAL LINES USED TO CONNECT THESE SECTION TO USE INLINE CHECK VALVES.

IRRIGATION LEGEND

SYMBOL (F H Q)	RAD.	MANF.	MODEL NO. WITH NOZZLE SIZE & TYPE	DESCRIPTION	PSI	FLOW RATE IN GPM F	H	Q		DETAIL
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-360	6" Pop-Up Turf Spray Head	40	.78	-	-	-	E.F/SL4.11
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-90	6" Pop-Up Turf Spray Head	40	-	.42	-	-	E.F/SL4.11
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-90	6" Pop-Up Turf Spray Head	40	-	-	.23	-	E.F/SL4.11
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-360	6" Pop-Up Turf Spray Head	40	1.87	-	-	-	E.F/SL4.11
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90	6" Pop-Up Turf Spray Head	40	-	.93	-	-	E.F/SL4.11
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90	6" Pop-Up Turf Spray Head	40	-	-	.49	-	E.F/SL4.11
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 360	6" Pressure Regulated Rotor	45	3.82	-	-	-	A/SL4.11
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 180	6" Pressure Regulated Rotor	45	-	1.98	-	-	A/SL4.11
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 90	6" Pressure Regulated Rotor	45	-	-	1	-	A/SL4.11
	-	Hunter	RZWS-18-CV	Bubbler in Sleeve with Grate	30	.50	-	-	-	G/SL4.10
	Hunter		Irrigation Dripline - HDL-06-12-COP	Space lateral rows at 12". Dripper spacing at 12". Install 3" Below Grade and Staked at 3' O.C. Use Hunter PLD-LOC fittings. Application rate: 0.96 in/hr. Time to apply 1/4": 15 minutes.	30	0.6 GPH Flow Rate				LH/SL4.10
	Hunter		Sub Surface Drip Mat ECO-MAT-17	Install 3" Below Grade and Staked at 8' O.C. Use Hunter PLD-LOC fittings. CONTRACTOR TO HAND WATER AND ESTABLISH TURF ROOTS TO MAT DEPTH.	30	0.6 GPH Flow Rate				B,C,D/ SL4.11
	Hunter		AVR-075 - Air Relief Valve	Install in a Hunter - Multi Purpose Box M8-0811						K/SL4.10
	Hunter		ECO-ID - Drip Operation Indicator	Install in a visible area.						L/SL4.10
	Hunter		PLD-BV - Manual Flush Valve	Install in a Hunter - Multi Purpose Box M8-0811						J/SL4.10
	Hunter		PLD-LOC- 050 - Drip Connector	Install per manufacturers specifications.						-
M	-		Existing Potable 2" Water Meter	Existing 2" Potable Water Meter with 80 static PSI						-
	Febco		Backflow Preventer | 825YA - Size Per Main Line | Existing from Package 03	Existing from Package 03						-
	Nibco		Gate Valve | T-111 Line Size 2 1/2" and smaller.	For mainline sizes 3" and larger, use Nibco F-619-SGN, epoxy coated. Assemble with stainless steel hardware. Install in a 10" round valve box.						B/SL4.10
SM	Hunter		Sub Meter | HC-200-FLOW | Existing	Existing refer to overall plan for location.						-
MV	Superior		Master Valve | 3300 Series - Normally Open - Existing	Existing refer to overall plan for location.						-
FS	Flomec		Flow Sensor | QS-200 - Size Per Mainline | Existing	Existing refer to overall plan for location.						-
	Hunter		Quick Coupler Valve | HQ33D-RC	Install with stabilizing stake.						C/SL4.10
	Hunter		Brass Remote Control Valve | IBV-FS w/AS-ADJ Size Per Callout on Plan w/ (1) ICD-100 and (1)DCSTAKE10	Self cleaning remote control valve with adjustable pressure dial. Install in rectangle valve box per detail with decoder and decoder stake						D/SL4.10
	Hunter		Brass Drip Control Zone Kit | IBZ-101-LF-40 for .5-15 GPM or IBZ-151-40-XL for 20-50 GPM w/ (1) ICD-100 and (1)DCSTAKE10	Remote control valve kit with pressure regulating filter. Install in rectangle valve box per detail with decoder and decoder stake						F/SL4.10
	King Bros.		Line Size Check Valve	Provide swing check valve when direction of water flow is uphill. Provide spring check valve when direction of flow is downhill.						-
WS	Hunter		Wireless Solar Sync Sensor | WSS-SEN | Existing from Package 03	Weather/Rain Sensor. Locate in location with most sun. Open to air and free from any obstructions. Verify location in field.						-
A	Hunter		Existing. REFER TO OVERALL PLAN FOR EXACT LOCATION | Smart Controller on Pedestal | A2C-75D-SS w/PED-SS **ADD (1) A2C-D75 Expansion Module**	Smart 2 Wire irrigation controller with automatic time adjustments through on site ET Data provided by solar sync sensor. Controller to be hard wired with Internet for central control capable. Existing.						-
			Existing Mainline	Protect in place.						-
			Mainline	Irrigation Mainline - PVC SCH. 40 IPS white pipe. PVC SCH. 40 IPS for mainline sizes 1" to 2" PVC Class 315 IPS for mainline sizes 2 1/2" to 3" Sleeve mainline per notes and details.						E/SL4.10
			Lateral Line	Lateral Pipe - PVC SCH. 40 IPS white pipe. Minimum pipe size shall be 3/4" - size laterals per plan. PVC SCH. 40 IPS for sizes 3/4" to 2 1/2" PVC Class 315 IPS for sizes 3" and larger						E/SL4.10
			PVC Sleeves	PVC SCH. 40 IPS white pipe - sleeves shall be installed for any mainline, lateral, or wires crossing under hardscape per irrigation construction notes. Size to be two times the pipe diameter or wire bundle.						A/SL4.10

IRRIGATION VALVE CALLOUT:



LATERAL LINE SIZING CHART

3/4"	1-7 GPM
1"	7-11 GPM
1 1/4"	11-20 GPM
1 1/2"	20-28 GPM
2"	28-48 GPM
2 1/2"	48-65 GPM
3"	65-100 GPM

NOTE: THE LATERAL SIZE BETWEEN TWO IDENTICAL TICK MARKS SHALL BE SIZED THE SAME. MINIMUM PIPE SIZE IS 3/4".

LATERAL CAPACITY CHART

3/4"	1-7 GPM
1"	7-11 GPM
1 1/4"	11-20 GPM
1 1/2"	20-28 GPM
2"	28-48 GPM
2 1/2"	48-65 GPM
3"	65-100 GPM

AT ANY POINT WHEN GPM CAPACITY EXCEEDS THE FOLLOWING BETWEEN TWO IDENTICAL TICK MARKS. PLEASE UPSIZE LATERAL LINE.

PLANT MATERIAL ABBREVIATIONS:

Plant Type:		Hydrozone:	
TF	Turf	H	High
SB	Shrub/Ground cover	M	Medium
TR	Trees	L	Low
PT	Pots		
DP	Drip		

PRESSURE CALCULATIONS FOR DOMESTIC IRRIGATION

Project Name and/or Tract#: PCYES Package 05
Date and Source of Information: 06.26.25
Name of Contact Person and Phone Number: -
P.O.C. Water Meter #: -
Water Meter Size and Type: Potable 2"
Hydraulic Grade Level: - FT
Water Meter Elevation: - FT
Highest Head Elevation on the System: - FT
Basis for Calculations: Largest Furthest Capacity

Remote Control Valve#: A75
Size of Remote Control Valve: 1"
Demand at Remote Control Valve: 19 GPM

QUANTITY	SIZE	DESCRIPTION	FLOW (GPM)	LOSS (PSI)
1	2"	Water Meter	19	1
1	2"	Backflow RP	19	12
-	-	Pressure Regulator	-	-
7	2"	Gate Valve(s)	19	7
-	-	Gate Valve(s)	-	-
1	2"	Master Valve	19	1
1	2"	Flow Sensor	19	1
426'	3"	Mainline	19	1
238'	2.5"	Mainline	19	1
233'	2"	Mainline	19	1
-	-	Mainline	-	-
1	1"	Remote Control Valve	19	3
		Lateral Line Losses (10%)		3
		Other Losses (10%)		3
		Elevation Loss or Gain -		
		Total		34

PRESSURE (PSI)

Pressure Required to Operate Irrigation Head	45
Sub-Total Pressure Required for Irrigation System	79
Total Pressure Required for Irrigation System (Sub-Total Pressure +)	79
Static Pressure Available	80
Residual Pressure (Subtract Total Pressure from Static Pressure)	1

COMPLIANCE NOTE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE..

SIGN_____

DATE_____

Section 4216/4217 of the government code requires a dig alert identification number be issued before a "permit to excavate" will be valid. 1-800-227-2600 Call (2) working days before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125476 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/07/2026

Practice
135 W. Green St Suite 200 Pasadena, CA 91105 | 626.568.1248 | practice-la.com

LA CAÑADA UNIFIED SCHOOL DISTRICT ESTABLISHED 1965

HKLA

LICENSED LANDSCAPE ARCHITECT HONGJOO KIM NO. 5087 STATE OF CALIFORNIA
Signature
Renewal Date 03/20/26
Date

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT HARRY R DRAKE NO. C-014869 REN. 05-31-27 STATE OF CALIFORNIA

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ISSUE DATE DESCRIPTION
04/19/2024 100% SCHEMATIC DESIGN
07/05/2024 50% DESIGN DEVELOPMENT
08/16/2024 100% DESIGN DEVELOPMENT
04/11/2025 50% CONSTRUCTION DOCUMENTS
07/18/2025 100% CONSTRUCTION DOCUMENTS
08/06/2025 DSA V1
12/02/2025 DSA V2
03/20/2026 DSA V3

REVISION DATE DESCRIPTION

DRAWING TITLE

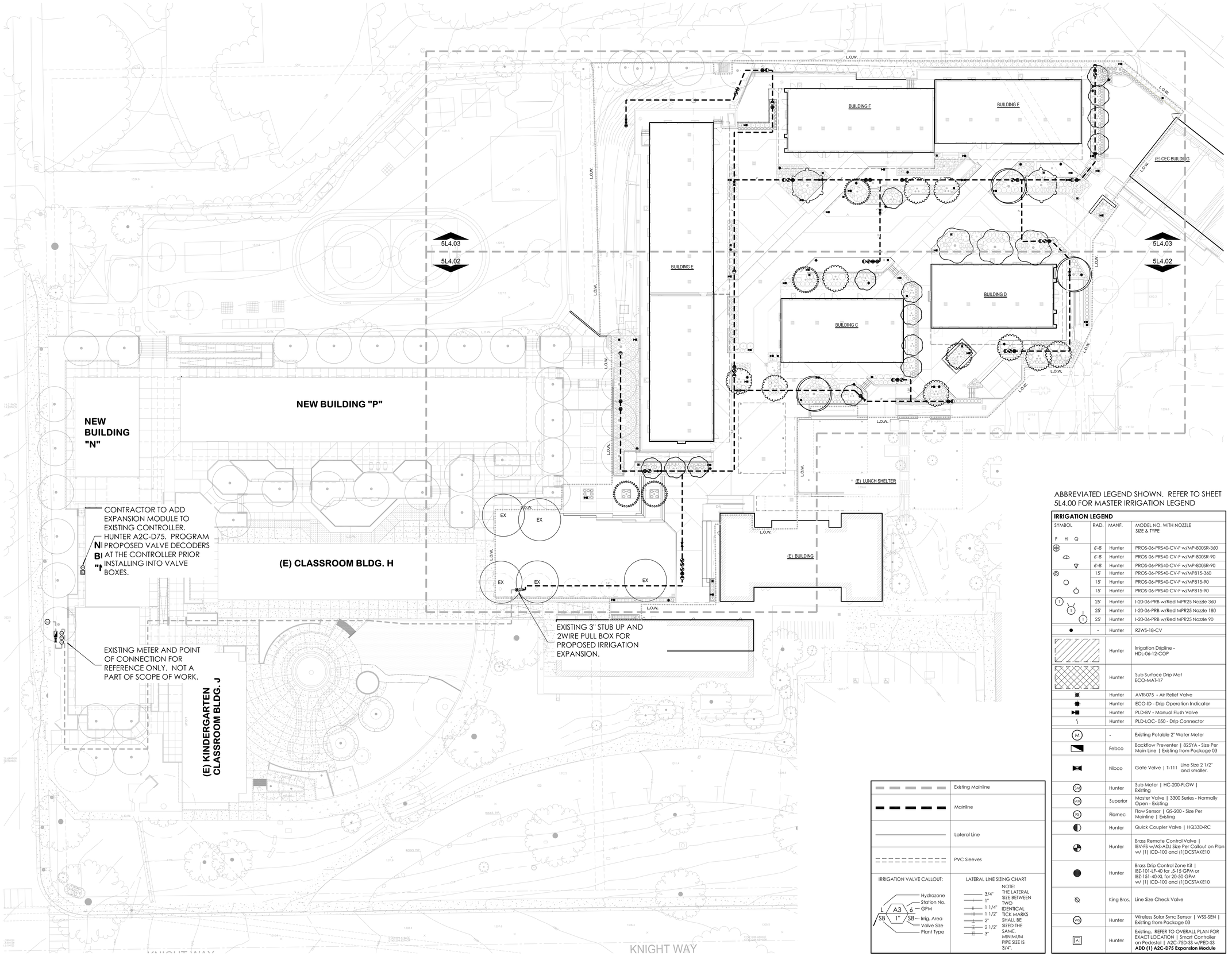
MASTER IRRIGATION LEGEND, NOTES AND CALCS

5L4.00

SCALE

PLOT DATE 7/25/2025 9:23 AM

If this sheet is smaller than 30" high by 42" wide then it has been reduced.



ABBREVIATED LEGEND SHOWN. REFER TO SHEET 5L4.00 FOR MASTER IRRIGATION LEGEND

IRRIGATION LEGEND

SYMBOL	RAD.	MANF.	MODEL NO. WITH NOZZLE SIZE & TYPE
F H Q	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-360
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-90
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-8005R-90
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-360
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90
1	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 360
1	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 180
1	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 90
	-	Hunter	RZWS-18-CV
		Hunter	Irrigation Dripline - HDL-06-12-COP
		Hunter	Sub Surface Drip Mat ECO-MAT-17
		Hunter	AVR-075 - Air Relief Valve
		Hunter	ECO-ID - Drip Operation Indicator
		Hunter	PLD-BV - Manual Flush Valve
		Hunter	PLD-LOC- 050 - Drip Connector
M	-		Existing Potable 2" Water Meter
	Febco		Backflow Preventer | 825YA - Size Per Main Line | Existing from Package 03
	Nibco		Gate Valve | T-111 Line Size 2 1/2" and smaller.
SM	Hunter		Sub Meter | HC-200-FLOW | Existing
MV	Superior		Master Valve | 3300 Series - Normally Open - Existing
FS	Flomec		Flow Sensor | QS-200 - Size Per Mainline | Existing
	Hunter		Quick Coupler Valve | HQ33D-RC
	Hunter		Brass Remote Control Valve | IBV-FS w/AS-ADJ Size Per Callout on Plan w/ (1) ICD-100 and (1)DCSTAKE10
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	King Bros.		Line Size Check Valve
WS	Hunter		Wireless Solar Sync Sensor | WSS-SEN | Existing from Package 03
A	Hunter		Existing. REFER TO OVERALL PLAN FOR EXACT LOCATION | Smart Controller on Pedestal | A2C-75D-SS w/PED-SS **ADD (1) A2C-D75 Expansion Module**

	Existing Mainline
	Mainline
	Lateral Line
	PVC Sleeves

IRRIGATION VALVE CALLOUT:

LATERAL LINE SIZING CHART

NOTE: THE LATERAL SIZE BETWEEN TWO IDENTICAL TICK MARKS SHALL BE SIZED THE SAME. MINIMUM PIPE SIZE IS 3/4".

OVERALL IRRIGATION PLAN 1" = 20' 1

0 10 20 40

NORTH

If this sheet is smaller than 30" high by 42" wide then it has been reduced.

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SS ☑ FLS ☑ ACS ☑
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Signature
Renewal Date 12/31/26
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03/20/2026	DSA V3

REVISION DATE	DESCRIPTION

DRAWING TITLE

OVERALL IRRIGATION PLAN

5L4.01

SCALE

PLOT DATE 7/25/2025 9:23 AM

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NOTE

The irrigation design presented in these documents is intended to be diagrammatic. All irrigation equipment, piping and valve locations, etc. shown within paved areas are for design clarification and shall only be installed in planting areas. Irrigation Contractor shall install all remote control valves, quick couplers, and gate valves, in shrub planting areas or as approved by owner's representative & the landscape irrigation designer. Avoid any conflicts between the sprinkler system, planting and architectural features.

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I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

SIGN_____ _____
DATE_____

CONTROL WIRE CONDUIT SIZING CHART

SLEEVE SIZE	2" MIN.	2-1/2"	3"	4"
WIRES IN SLEEVE	0-16	17-24	25-40	41-48

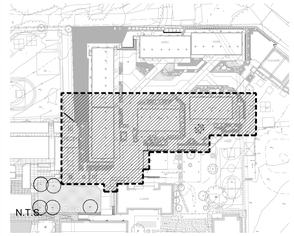
IRRIGATION SLEEVE SIZING CHART

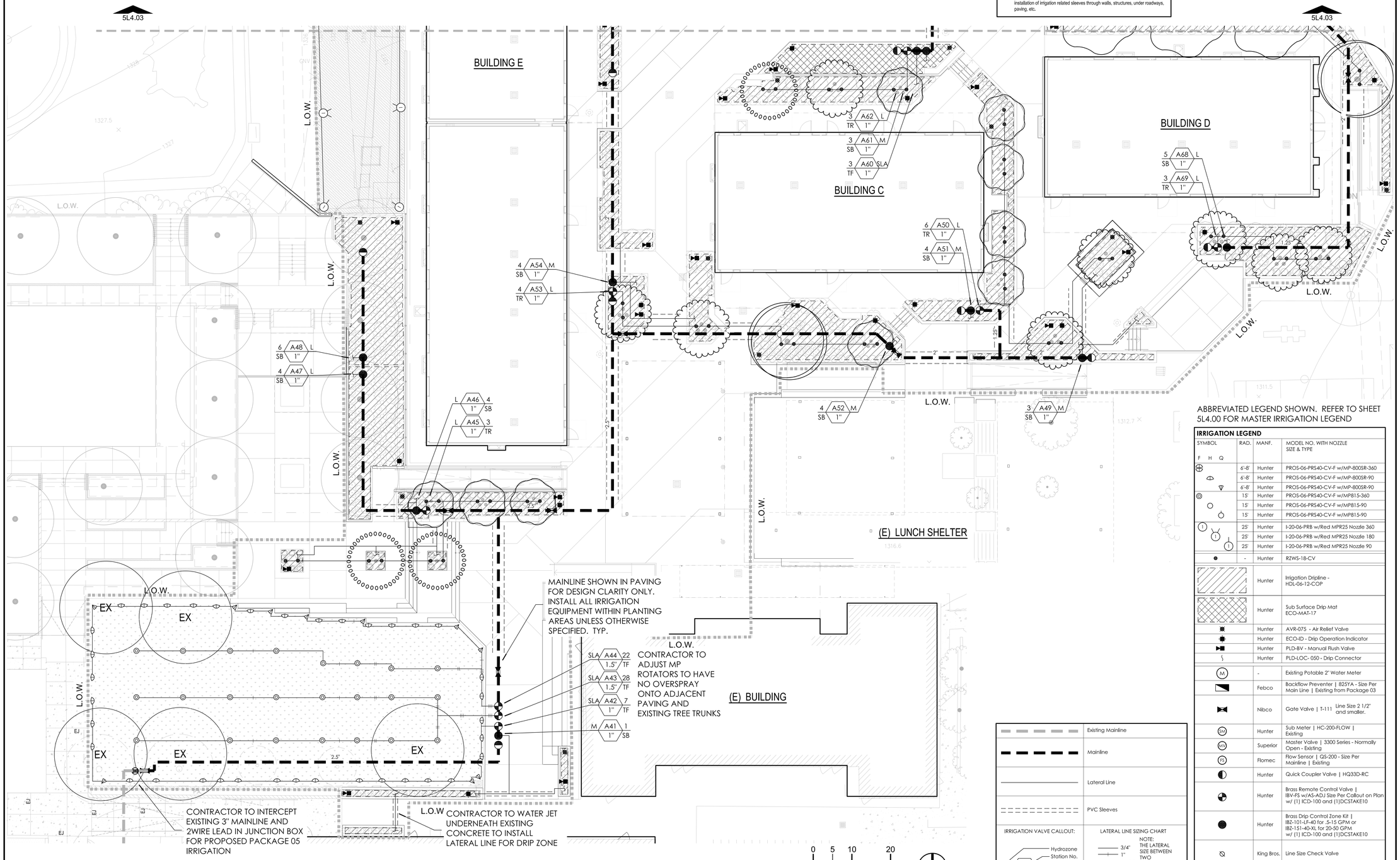
PIPE SIZE	3/4"	1"	1-1/4	1-1/2"	2"	2-1/2"	3"
SLEEVE SIZE	3"	3"	3"	4"	4"	4"	6"

IRRIGATION SLEEVE AND CONDUIT NOTES

1. Sleeves are required for all irrigation pipe and control wire conduit under paving (typical). Refer to Irrigation Sleeve Sizes and Control Wire Conduit Charts for appropriate sleeve and conduit sizing.
2. For drawing clarity, not all irrigation sleeves are sized but shall be installed and included as part of the contractor's bid. Also, for drawing clarity, not all conduits and irrigation sleeves are shown. Contractor is responsible for installation for sleeves and conduits of appropriate size under all paved areas as well as all sleeve pipes and conduits that are shown on the drawings.
3. The irrigation contractor shall be responsible for familiarizing themselves with all differences in grade, location of seatwalls, location of retaining walls, etc. The contractor shall be responsible for coordinating all irrigation work with the general contractor, electrical contractor, and all other subcontractors for the location and the installation of irrigation related sleeves through walls, structures, under roadways, paving, etc.

KEY PLAN





IRRIGATION PLAN - LOWER CORRIDOR 1

ABBREVIATED LEGEND SHOWN. REFER TO SHEET 5L4.00 FOR MASTER IRRIGATION LEGEND

	Existing Mainline
	Mainline
	Lateral Line
	PVC Sleeves

IRRIGATION VALVE CALLOUT:
L A3 6 SB 1" SB
Hydrozone
Station No.
GPM
Irrig. Area
Valve Size
Plant Type

LATERAL LINE SIZING CHART
NOTE: THE LATERAL SIZE BETWEEN TWO IDENTICAL TICK MARKS SHALL BE SIZED THE SAME. MINIMUM PIPE SIZE IS 3/4".
3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3"

IRRIGATION LEGEND

SYMBOL (F H Q)	RAD.	MANF.	MODEL NO. WITH NOZZLE SIZE & TYPE
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-800SR-360
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-800SR-90
	6'-8'	Hunter	PROS-06-PRS40-CV-F w/MP-800SR-90
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-360
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90
	15'	Hunter	PROS-06-PRS40-CV-F w/MP815-90
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 360
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 180
	25'	Hunter	I-20-06-PRB w/Red MPR25 Nozzle 90
	-	Hunter	RZWS-18-CV
		Hunter	Irrigation Dripline - HDL-06-12-COP
		Hunter	Sub Surface Drip Mat ECO-MAT-17
		Hunter	AVR-075 - Air Relief Valve
		Hunter	ECO-ID - Drip Operation Indicator
		Hunter	PLD-BV - Manual Flush Valve
		Hunter	PLD-LOC- 050 - Drip Connector
M	-		Existing Potable 2" Water Meter
		Febco	Backflow Preventer | 825Y-A - Size Per Main Line | Existing from Package 03
		Nibco	Gate Valve | T-111 Line Size 2 1/2" and smaller.
SM		Hunter	Sub Meter | HC-200-FLOW | Existing
MV		Superior	Master Valve | 3300 Series - Normally Open - Existing
FS		Flomec	Flow Sensor | QS-200 - Size Per Mainline | Existing
		Hunter	Quick Coupler Valve | HQ33D-RC
		Hunter	Brass Remote Control Valve | IBV-FS w/AS-ADJ Size Per Callout on Plan w/ (1) ICD-100 and (1)DCSTAKE10
		Hunter	Brass Drip Control Zone Kit | IBZ-101-LF-40 for .5-15 GPM or IBZ-151-40-XL for 20-50 GPM w/ (1) ICD-100 and (1)DCSTAKE10
		King Bros.	Line Size Check Valve
WS		Hunter	Wireless Solar Sync Sensor | WSS-SEN | Existing from Package 03
A		Hunter	Existing. REFER TO OVERALL PLAN FOR EXACT LOCATION | Smart Controller on Pedestal | A2C-75D-SS w/PED-SS **ADD (1) A2C-D75 Expansion Module**

If this sheet is smaller than 30" high by 42" wide then it has been reduced.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125476 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/07/2026

Practice
135 W. Green St Suite 200 Pasadena, CA 91105 | 626.568.1248 | practice-la.com

LA CAÑADA UNIFIED SCHOOL DISTRICT ESTABLISHED 1965

HKLA

LICENSED LANDSCAPE ARCHITECT
HONGJOO KIM NO. 5087
STATE OF CALIFORNIA
Signature
12/31/26
Renewal Date
03/20/26
Date

PARADISE CANYON E.S.

PACKAGE 5 - NEW NORTH BUILDINGS

471 KNIGHT WAY, LA CAÑADA FLINTRIDGE, CA 91011

PROJECT NUMBER 20911

LICENSED ARCHITECT
HARRY R DRAPER
NO. C-014869
REN. 05-31-27
STATE OF CALIFORNIA

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ISSUE DATE	DESCRIPTION
04/19/2024	100% SCHEMATIC DESIGN
07/05/2024	50% DESIGN DEVELOPMENT
08/16/2024	100% DESIGN DEVELOPMENT
04/11/2025	50% CONSTRUCTION DOCUMENTS
07/18/2025	100% CONSTRUCTION DOCUMENTS
08/06/2025	DSA V1
12/02/2025	DSA V2
03/20/2026	DSA V3

REVISION DATE	DESCRIPTION

DRAWING TITLE

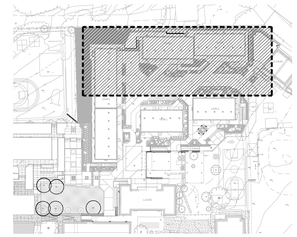
IRRIGATION PLAN

5L4.02

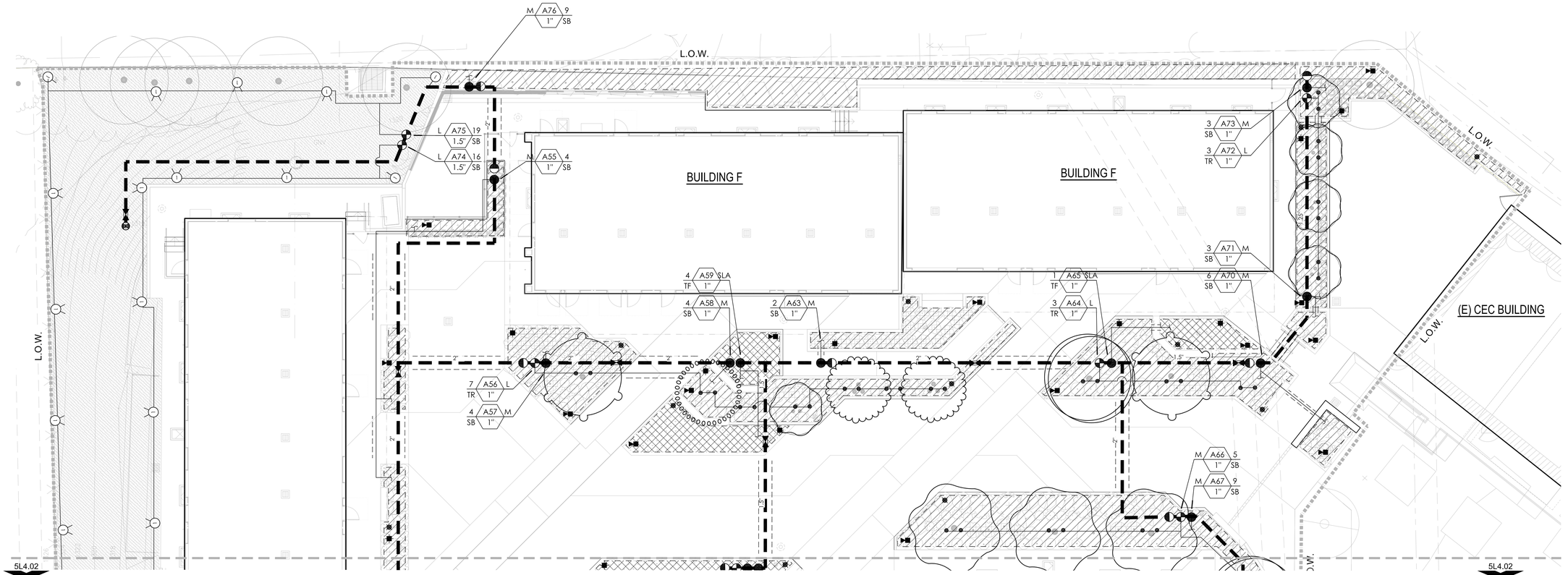
SCALE

PLOT DATE 7/25/2025 9:23 AM

KEY PLAN



N.T.S.



0 5 10 20

1" = 10'

IRRIGATION PLAN - UPPER COURTYARD 1

NORTH

ABBREVIATED LEGEND SHOWN. REFER TO SHEET 5L4.00 FOR MASTER IRRIGATION LEGEND

Section 4216/4217 of the government code requires a dig alert identification number be issued before a "permit to excavate" will be valid.
1-800-227-2600
Call (2) working days before you dig.

NOTE

The irrigation design presented in these documents is intended to be diagrammatic. All irrigation equipment, piping and valve locations, etc. shown within paved areas are for design clarification and shall only be installed in planting areas. Irrigation Contractor shall install all remote control valves, quick couplers, and gate valves, in shrub planting areas or as approved by owner's representative & the landscape irrigation designer. Avoid any conflicts between the sprinkler system, planting and architectural features.

COMPLIANCE NOTE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

SIGN_____

DATE_____

CONTROL WIRE CONDUIT SIZING CHART

SLEEVE SIZE	2" MIN.	2-1/2"	3"	4"
WIRES IN SLEEVE	0-16	17-24	25-40	41-48

IRRIGATION SLEEVE SIZING CHART

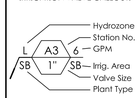
PIPE SIZE	3/4"	1"	1-1/4	1-1/2"	2"	2-1/2"	3"
SLEEVE SIZE	3"	3"	3"	4"	4"	4"	6"

IRRIGATION SLEEVE AND CONDUIT NOTES

1. Sleeves are required for all irrigation pipe and control wire conduit under paving (typical). Refer to Irrigation Sleeve Sizes and Control Wire Conduit Charts for appropriate sleeve and conduit sizing.
2. For drawing clarity, not all irrigation sleeves are sized but shall be installed and included as part of the contractor's bid. Also, for drawing clarity, not all conduits and irrigation sleeves are shown. Contractor is responsible for installation for sleeves and conduits of appropriate size under all paved areas as well as all sleeve pipes and conduits that are shown on the drawings.
3. The irrigation contractor shall be responsible for familiarizing themselves with all differences in grade, location of seatwalls, location of retaining walls, etc. The contractor shall be responsible for coordinating all irrigation work with the general contractor, electrical contractor, and all other subcontractors for the location and the installation of irrigation related sleeves through walls, structures, under roadways, paving, etc.

	Hunter	Brass Remote Control Valve | IBV-FS w/AS-ADJ Size Per Callout on Plan w/ (1) ICD-100 and (1)DCSTAKE10
	Hunter	Brass Drip Control Zone Kit | IBZ-101-LF-40 for .5-15 GPM or IBZ-151-40-XL for 20-50 GPM w/ (1) ICD-100 and (1)DCSTAKE10
	King Bros.	Line Size Check Valve
WS	Hunter	Wireless Solar Sync Sensor | WSS-SEN | Existing from Package 03
A	Hunter	Existing. REFER TO OVERALL PLAN FOR EXACT LOCATION | Smart Controller on Pedestal | A2C-75D-SS w/PED-SS **ADD (1) A2C-D75 Expansion Module**
		Existing Mainline
		Mainline
		Lateral Line
		PVC Sleeves

IRRIGATION VALVE CALLOUT:



LATERAL LINE SIZING CHART

3/4"	NOTE: THE LATERAL SIZE BETWEEN TWO IDENTICAL TICK MARKS SHALL BE SIZED THE SAME. MINIMUM PIPE SIZE IS 3/4".
1"	
1 1/4"	
1 1/2"	
2"	
2 1/2"	
3"	

IRRIGATION LEGEND

SYMBOL	RAD.	MANF.	MODEL NO. WITH NOZZLE SIZE & TYPE
F H Q			
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LICENSED LANDSCAPE ARCHITECT
HONGJOO KIM NO. 5087
Signature
Renewal Date 12/31/26
Date 03/20/26
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REVISION DATE	DESCRIPTION

DRAWING TITLE

IRRIGATION PLAN

5L4.03

SCALE

PLOT DATE 7/25/2025 9:23 AM