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COMPTON COLLEGE
STUDENT HOUSING

DSA A# 03-123205

INCREMENT 1
DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
CONSTRUCTION DOCUMENTS

PROJECT DIRECTORY

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Tel. 310.900.1600

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VIRGIL AOANAN

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CONTACT: **JAMES GINGERY**

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CONTACT: **JARED BOHONUS**

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CONTACT: **SHANE FITZGERALD, PRINCIPAL**
RUSSELL MCLELLAN, PROJECT MANAGER

MEP, AVIT, TELECOM
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Tel. 562.497.2999

CONTACT: **TRAVIS TAYLOR, PROJECT MANAGER**
NATE BEHNING (MECHANICAL)
ERIC GOMEZ/CHRISTIAN GOODHUE (PLUMBING)
BRYANT TRAM (ELECTRICAL)
SAM PAANO (AVIT/ TELECOM)

FIRE PROTECTION
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CONTACT: **TRAVIS TAYLOR, PROJECT MANAGER**
ANDRES JIMENEZ, (FIRE PROTECTION)

TRASH MANAGEMENT
AMERICAN TRASH MANAGEMENTT
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EMERYVILLE, CA 94608
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CONTACT: **SCOTT BROWN**
CARLA SANCHEZ

STOREFRONT/ SUNSHADE
ARCADIA INC.
2301 E. VERNON AVE.
VERNON, CA 90058
Tel. 323-908-5466

CONTACT: **JAMES FITZSIMMONS**
SCOTT WALLACE

APPLICABLE CODES

APPLICABLE CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, ALSO INCLUDES PARTS 8 & 12 TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, CCR)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2010 ADA STANDARDS
FAIR HOUSING ACT

*As of January 1, 2023

Applicable Standards

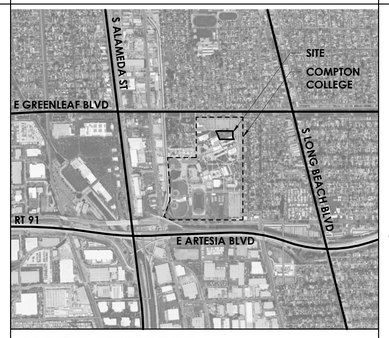
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005(R2010) EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2010) EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECAME EFFECTIVE JANUARY 1, 2023

VICINITY MAP



PROJECT DESCRIPTION

INCREMENT # 01 SCOPE OF WORK:
- DEMOLITON OF EXISTING STRUCTURES AND SITE IMPROVEMENTS
- SOIL MITIGATION (DEEP SOIL MIXING)
- UNDERGROUND UTILITIES
- ROUGH GRADING

INCREMENT #02 SCOPE OF WORK:
- THREE-STORY STUDENT HOUSING BUILDING.
- CONSISTS OF PRE-FABRICATED MODULAR RESIDENTIAL UNITS AND SITE-BUILT SUPPORT SPACES.
- SITE IMPROVEMENT WORK INCLUDES ACCESSIBLE PATHS OF TRAVEL, FIRE DEPARTMENT ACCESS, HARDSCAPE, LANDSCAPE. (5) FIVE PARKING STALLS FOR LOADING / UNLOADING AND (1) ONE ACCESSIBLE VAN PARKING STALL.

INSPECTIONS

SEE INCLUDED FORM DSA-103 LIST OF REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS - 2022 CBC, SEE GENERAL NOTES, AND ADDITIONAL TESTING AND INSPECTION NOTES ON SHEETS G1.20 AND G1.20-01.

DSA CERTIFIED PROJECT INSPECTOR CLASS 1 SHALL BE REQUIRED FOR THIS PROJECT.

DEFERRED APPROVALS
SOIL IMPROVEMENT NOTE

1. SOIL IMPROVEMENT

THE GEOTECHNICAL ENGINEER SHALL SUBMIT A COMPREHENSIVE REPORT DOCUMENTING FINAL SOIL IMPROVEMENTS CONSTRUCTED, CONSTRUCTION OBSERVATION, AND THE RESULTS OF THE CONFIRMATION TESTING AND ANALYSIS TO THE CALIFORNIA GEOLOGICAL SURVEY (CGS). THE PROJECT FOUNDATION CONSTRUCTION SHALL NOT COMMENCE UNTIL FINAL CGS ACCEPTANCE LETTER IS ISSUED AND PROCESSED BY DSA AS A DEFERRED SUBMITTAL.

SUBMISSIONS TO CGS:

1. DESIGN PACKAGE AND PLANS FOR THE DEEP SOIL MIXING (DSM) GROUND IMPROVMENT BY SPECIALTY GEOTECHNICAL CONTRACTOR (SGC) AND REVIEWED BY GEOR.

2. COMPREHENSIVE FINAL REPORTS: UPON COMPLETION OF RECOMMENDED AND ACCEPTED FINAL DSM GROUND IMPROVEMENT PROGRAM, A COMPREHENSIVE FINAL REPORT SHALL BE SUBMITTED TO CGS FOR REVIEW. THE REPORT SHALL DOCUMENT OBSERVATIONS, TESTING, AND ANALYSIS, INCLUDING THE DATA COLLECTED TO SATISFY THE SPECIFIED ACCEPTANCE CRITERIA. THE REPORT SHALL DEMONSTRATE THE DESIGN AND PERFORMANCE CRITERIA FOR THE PROJECT ARE MET BASED ON THE ACCEPTANCE TESTING CRITERIA ESTABLISHED FROM A PRE-PRODUCTION TEST PROGRAM, WHICH MAY INCLUDE FIELD VALIDATION, SLURRY DENSITY MEASUREMENT, WET SAMPLING AND TESTING, CORING AND STRENGTH TESTING. THE REPORT SHALL ALSO INCLUDE ALL EQUIPMENT CALIBRATION RECORDS, QA/QC DATA, AND DAILY RECORDS OF PRE-PRODUCTION AND PRODUCTION CDSM INSTALLATION AND TESTING. THE REPORT SHALL ALSO PROVIDE ALL OTHER PERTINENT DATA AND OBSERVATIONS OBTAINED DURING THE WORK THAT ARE CONSIDERED IN ASSESSMENT OF THE SUCCESSFUL COMPLETION OF THE GROUND IMPROVEMENT TO MITIGATE THE IDENTIFIED HAZARDS AND SATIFY THE DESIGN AND PERFORMANCE CRITERIA FOR THE PROJECT.

SHEET INDEX

STATEMENT OF GENERAL CONFORMANCE

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-123205 **File No.** 19-C1**)**

[X] The drawings or sheets listed on the cover or index sheet
[ ] This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I certify that: [X] All drawings or sheets listed on the cover or index sheet
[ ] This drawing or page

[X] is/are in general conformance and [X] have been coordinated	[ ] is/are in general conformance and [ ] have been coordinated
Signature: [signature] Date: 4/17/2023	Signature: Date:
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer delegated responsibility for this portion of the work.**
Print Name: AMMAR SARSAM	Print Name:
License Number: C-30902 Expiration Date: 12/31/2023	License Number: Expiration Date:

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA
92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2025
RENEWAL DATE
STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

Design Collective
ARCHITECTURE PLANNING INTERIORS
LANDSCAPE ARCHITECTURE GRAPHICS

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD, COMPTON, CA 90221

Compton College

ISSUED

#	DATE	DESCRIPTION
A	03/01/2024	REVISION A

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
TITLE SHEET - INCREMENT 1

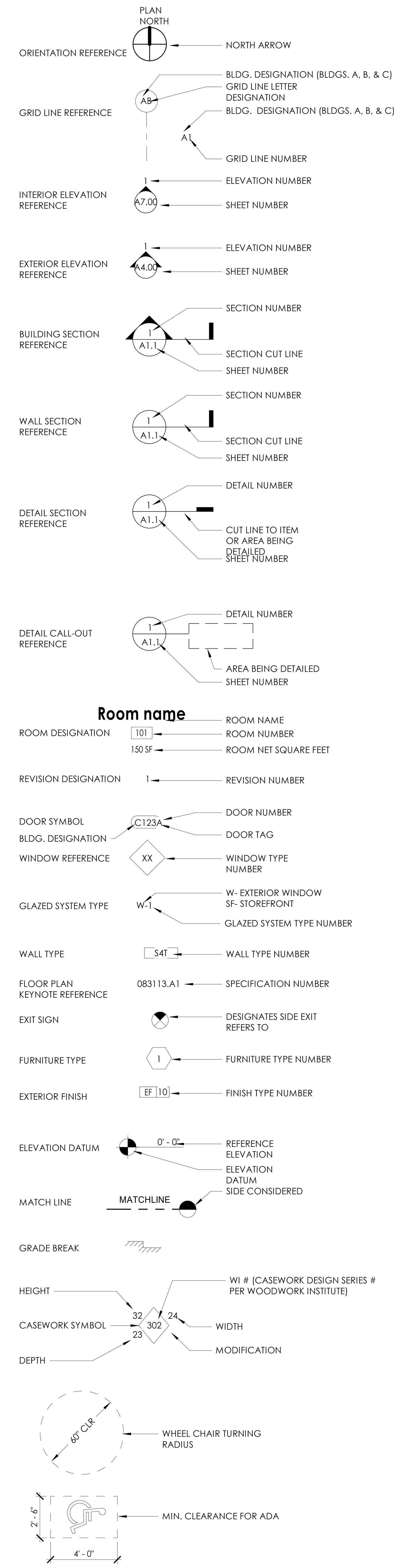
SHEET NUMBER
G1.10-01

CONSTRUCTION DOCUMENTS

GENERAL NOTES

No.	NOTE
1	ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, THE NFPA FIRE CODE, THE AMERICANS WITH DISABLITIES ACT (ADA), CALIFORNIA TITLE 24 PARTS 1-5, AND/OR APPLICABLE GOVERNING ORDINANCES UNLESS NOTED OTHERWISE AND SHALL BE THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPENCY OR CONFLICT OF THE CODE AND THE DRAWING.
2	ALL CONSTRUCTION AND WORKMANSHIP SHALL COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
3	CONSTRUCTION MANAGER WILL BE RESPONSIBLE FOR THE ASSIGNMENT OF ALL WORK SHOWN IN THESE DRAWINGS AND SPECIFICATIONS TO PRIME CONTRACTORS (HEREINAFTER REFERRED TO INTERCHANGEABLY AS "CONTRACTOR OR CONTRACTORS") UNLESS SPECIFICALLY NOTED OTHERWISE.
4	THESE DRAWINGS, WHEN USED WITH THE PROJECT SPECIFICATIONS, SHALL CONSTITUTE THE SUM OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REFERENCE ALL DRAWINGS AND SPECIFICATIONS CONCURRENTLY. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AS REFERRED TO IN THE GENERAL CONDITIONS OF THE PROJECT SPECIFICATIONS.
5	CONTRACTOR SHALL NOT BREAK SETS. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, WHAT IS REQUIRED BY ANY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
6	DISCREPANCIES IN THE CONTRACT DOCUMENTS; IN THE EVENT OF ERROR, OMISSION, AMBIGUITY, OR CONFLICT WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE MATTER TO THE ARCHITECT'S ATTENTION IN A TIMELY MANNER, FOR ARCHITECT'S AND OWNER'S DETERMINATION AND DIRECTION IN ACCORDANCE WITH PROVISIONS OF THE GENERAL CONDITIONS. DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL NOT BE ALLOWED AS A BASIS FOR CHANGE ORDERS.
7	ALL UNDERGROUND FIRE SPRINKLER PIPING WORK AND ADJACENT SYSTEMS SHALL BE IN ACCORDANCE WITH FIRE SPRINKLER PIPING INSPECTION CHECKLIST PER NFPA 24 (LATEST EDITION).
8	CONSTRUCTION DIMENSIONS INDICATED ARE BASED ON RECORD DRAWINGS AND GENERAL FIELD OBSERVATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD (REPORT ANY INCONSISTENCIES IMMEDIATELY TO THE ARCHITECT PRIOR TO CONSTRUCTION) AND MAKE ALLOWANCES / TOLERANCES FOR ADJOINING / LAPPING MATERIALS PRIOR TO FABRICATION. CONFIRM WITH ARCHITECT FOR SIGNIFICANT DIFFERENCES.
9	DISTRICT RECORD DRAWINGS ARE AVAILABLE FOR REVIEW. ARCHITECT AND DISTRICT MAKE NO WARRANTIES AS TO THE SUITABILITY OF RECORD DRAWINGS OR ANY PARTICULAR PURPOSE. NO WORK SHOWN ON RECORD DRAWINGS IS INCLUDED IN THE WORK OF THIS CONTRACT.
10	DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF SAID WORK.
11	THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT AND ENGINEERS SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES REQUIRED FOR SAME, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT AND HIS ENGINEERS DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT AND HIS ENGINEERS, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO DURING OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
12	THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.
13	WRITTEN DIMENSIONS SHALL BE USED FOR LAY-OUT. DO NOT SCALE DRAWINGS.
14	ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE OR MASONRY, FACE OF FINISH WHERE NOTED, AND CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. ALL DIMENSIONS NOTED AS "CLEAR" SHALL BE TO FACE OF FINISH. ALL DOOR OPENINGS ARE OFFSET 4" FROM THE INSIDE CORNER U.O.N.
15	REFERENCE TO ANY DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWINGS.
16	THE CONTRACTOR SHALL PROVIDE COORDINATION BETWEEN ALL SUBCONTRACTORS AND TRADES.
17	THE DRAWINGS INDICATE THE END RESULT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BID SUBMITTAL TO DETERMINE ANY PROBLEMS HE WILL HAVE IN PERFORMING THE WORK. THE BID SHALL INCLUDE THE COST OF THE RESOLUTION OF ALL PROBLEMS.
18	ANY CONDITIONS NOT COVERED BY THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE CONTRACTOR OR DISTRICT PRIOR TO BIDDING.
19	PROVIDE ACCESSIBLE FACILITIES IN ACCORDANCE WITH C.A.C. TITLE 24 AND AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (ADA). NOTIFY IOR FOR RULING ON CONFLICT BETWEEN REGULATIONS.
20	THESE DRAWINGS WERE PREPARED IN A MANNER CONSISTENT WITH EXISTING PROFESSIONAL STANDARDS AND WITH THE UNDERSTANDING THAT THESE DRAWINGS WOULD BE USED SOLELY BY QUALIFIED AND EXPERIENCED CONTRACTORS AND/OR DESIGN PROFESSIONALS FOR USE IN THE CONSTRUCTION OF THIS SPECIFIC PROJECT ONLY. THE DETAILS INDICATED ON THESE PLANS REPRESENT GENERAL TYPICAL DETAILS REQUIRED FOR COMMUNICATING THIS PROJECT'S DESIGN INTENT TO SUCH AND MAY NOT INCLUDE ALL THE DETAILS NECESSARY FOR THE FINAL COMPLETION OF THIS PROJECT.
21	DETAILS MARKED TYPICAL ON DRAWINGS ARE INTENDED FOR TYPICAL CONDITIONS ON THE ENTIRE PROJECT AND ARE APPLICABLE TO APPLY WHERE SIMILAR CONDITIONS OCCUR.
22	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK AND/OR EQUIPMENT SUPPLIED BY THE OWNER.
23	DUE TO THE DIFFICULTY OF ANTICIPATING EVERY UNSATISFACTORY CONDITION THAT MIGHT BE FOUND IN EXISTING CONSTRUCTION WHERE ALTERATION, REHABILITATION OR RECONSTRUCTION WORK IS PROPOSED, THE FOLLOWING CLAUSE OR ONE OF SIMILAR MEANING SHALL BE INCLUDED IN ALL SPECIFICATIONS FOR ALTERATION, REHABILITATION OR RECONSTRUCTION PROJECTS: "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE-24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK WILL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT, THE SCHOOL DISTRICT, AND DSA BEFORE PROCEEDING WITH THE WORK.
24	THE ARCHITECT OR ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ACTION TAKEN BY ANYONE ON THE PROJECT IF THAT PERSON IS KNOWLEDGEABLE OF ANY DISCREPANCIES, OMISSIONS OR AMBIGUITY IN THE DRAWINGS OR SPECIFICATIONS UNTIL THE ARCHITECT OR ENGINEER HAS BEEN NOTIFIED, HAS CORRECTED THE DISCREPANCY, OR MORE CLEARLY EXPLAINED THE INTENT OF THE DRAWINGS OR SPECIFICATIONS.
25	THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. NO FABRICATION, ERECTION, OR INSTALLATION OF MATERIALS SHALL BE STARTED WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.
26	THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS WHO MAY BE PERFORMING WORK ON BEHALF OF THE CLIENT AND WORKMEN WHO MAY BE EMPLOYED BY THE CLIENT ON ANY WORK IN THE VICINITY OF THE WORK TO BE DONE UNDER THIS CONTRACT; AND THE CONTRACTOR SHALL CONDUCT HIS/HER OPERATIONS AS TO INTERFERE TO THE LEAST POSSIBLE EXTENT WITH THE WORK OF OTHER SUCH CONTRACTORS OR WORKMEN.
27	THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., DURING DEMOLITION AND CONSTRUCTION, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.
28	PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SECURE THE AREA SO THAT NO UNAUTHORIZED PERSONNEL OR CHILDREN SHALL GAIN ACCESS TO THE PROJECT AREA OR PROJECT STAGING AREAS.
29	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING BUILDING(S) FROM WEATHER DAMAGE DURING CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE CLIENT AND PAID FOR BY THE CONTRACTOR.
30	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING HIS/HER EQUIPMENT, SUPPLIES, TOOLS, ETC.
31	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. ANY DAMAGE TO UTILITIES SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND CENTRAL PLANT OPERATIONS IMMEDIATELY.
32	THE CONTRACTOR SHALL SAFEGUARD THE OWNERS PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION OR BETTER.
33	THE CONTRACTOR WARRANTS TO THE OWNER AND THE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW UNLESS OTHERWISE SPECIFIED AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS.
34	CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHER UNITS IN RECESSED CABINETS AS SPECIFIED BY LOCAL AUTHORITY HAVING JURISDICTION. LOCATION AND TYPE OF UNIT WILL BE DETERMINED BY LOCAL AUTHORITY HAVING JURISDICTION. THE MAXIMUM FLOOR TRAVEL DISTANCE SHALL NOT EXCEED 75 FT. TO THE NEAREST EXTINGUISHER FROM ANY POINT IN THE BUILDING WITHOUT NEEDING TO GO UP OR DOWN STAIRS.
35	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING ALL FINISHED SURFACES CLEAN AT THE COMPLETION OF THE WORK AND SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS FROM THE JOB REGULARLY WHENEVER POSSIBLE, PREVIOUS TRENCH CUTS SHALL BE USED TO MINIMIZE PAVEMENT CUTS.
36	WORKMANSHIP SHALL BE OF THE HIGHER QUALITY AND NOT LESS THAN THE MINIMUM STANDARDS AS EXPECTED OF THE APPLICABLE TRADE OR PROFESSION, COMPLETELY FINISHED, SAFE, NEAT THROUGHOUT AND PERFORMED BY COMPETENT AND EXPERIENCED WORKMEN. CONSTANT SUPERVISION OF WORK BY CONTRACTOR SHALL BE MAINTAINED.
37	ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS FREE.
38	NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1(1) AND 307.1(2)
39	CONTRACTOR'S ACCESS SHALL BE APPROVED BY CLIENT, INCLUDING MATERIAL STORAGE AND VEHICLE PARKING. CONTRACTOR SHALL LIMIT STORAGE AND PARKING TO THE DESIGNATED AREAS.
40	ITEMS OF A MECHANICAL OR ELECTRICAL NATURE MAY NOT NECESSARILY APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE THE APPROPRIATE DRAWINGS FOR ITEMS OF THIS NATURE.
41	FOR ALL WALL MOUNTED AND SEMI-RECESS MOUNTED EQUIPMENT, WHITE BOARDS, ACCESSORIES, CABINETS, HANDRAILS, MECHANICAL/ELECTRICAL EQUIPMENT, DOOR STOPS, SIGNAGE, MAGNETIC DOOR HOLD-OPEN DEVICES, ETC. PROVIDE AND INSTALL SOLID BLOCKING.
42	REFER TO DETAILS ON SHEET A9.52 FOR ALL FIRE RATED AND ACOUSTICAL WALL PENETRATION (DUCT, PIPE CONDUIT PENETRATIONS)
43	DISSIMILAR METALS: SEPARATE DISSIMILAR METALS WITH BITUMINOUS PAINT, OR A SUITABLE SEALANT, OR A NON-ABSORPTIVE PLASTIC OR ELASTOMERIC TAPE, OR A GASKET BETWEEN THE SURFACES. DO NOT USE COATING CONTAINING LEAD.
44	PROTECTION: WHEREVER ALUMINUM IS IN CONTACT WITH CONCRETE, APPLY BITUMINOUS PAINT OR BY SUCH OTHER ISOLATION APPROVED IN ADVANCE BY THE ARCHITECT.
45	CONTRACTOR TO CHECK AND VERIFY SIZE AND LOCATION OF DUCTS, PLUMBING RUNS AND MECHANICAL EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTORS BEFORE CONSTRUCTING WALLS, FLOOR, CEILINGS, CABINETS, EQUIPMENT BASES, ETC.
46	CONTRACTOR TO CHECK, VERIFY SIZES AND COORDINATE THE LOCATION AND PATH OF MECHANICAL DUCT WORK, ELECTRICAL, LOW VOLTAGE A/V CONDUITS AND FIRE PROTECTION SYSTEM PIPING. OVERCOME ANY CONFLICT BETWEEN THE LAYOUTS OF THESE SYSTEMS THAT MAY RISE DUE TO FIELD CONDITIONS AND PROVIDE THE NECESSARY CHANGES WITHOUT COMPROMISING THE EFFICIENCY AND THE INTEGRITY OF THESE SYSTEMS.
47	FOR INTERIOR FINISH MATERIALS AND COLORS REFER TO FINISH AND COLOR SCHEDULES. THE FLAME SPREAD RATING OF INTERIOR FINISHES SHALL NOT EXCEED "75." FINISH MATERIAL SHALL BE APPROVED BY THE STATE FIRE MARSHAL, OR BUILDING OFFICIAL WITH AGENCY HAVING JURISDICTION PRIOR TO INSTALLATION.
48	PENETRATION OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714.
49	WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CFC TABLE 803.3.
50	SUSPENDED CEILINGS SHALL COMPLY WITH ASTM C 635, CBC 2022 SECTION 1617A.1.21 FOR HIGH SEISMIC AREAS, IR 25-1, IR 25-2.13, AND IR 25-3.13
51	NO CUTTING, CHIPPING OR OTHER MODIFICATION OF STRUCTURE IS ALLOWED EXCEPT AS SHOWN OR BY WRITTEN DECISION OF ARCHITECT.
52	CONSUMPTION OF ALCOHOLIC BEVERAGES OR USE OF CONTROLLED SUBSTANCES IS PROHIBITED ON DISTRICT PROPERTY. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCING THIS PROHIBITION FOR EMPLOYEES, SUBCONTRACTORS AND THEIR EMPLOYEES, OR OTHER PERSONS RELATED TO THE PROJECT THROUGH OR BY THE CONTRACTOR.
53	AT NO TIME DURING CONSTRUCTION AND UNDER THIS CONTRACT SHALL THE CONTRACTOR PLACE, OR CAUSE TO BE PLACED, ANY MATERIALS AND/OR EQUIPMENT, ETC., AT A LOCATION THAT WOULD IMPEDE OR IMPAIR ACCESS TO OR FROM THE PRESENT FACILITIES, WITHOUT PRIOR CLIENT APPROVAL.
54	THE CONTRACTOR SHALL EXERCISE MAXIMUM DUST AND NOISE CONTROL DURING CONSTRUCTION HOURS, AND MUST COMPLY FULLY WITH CLIENT CONSTRUCTION GUIDELINES.
55	THE WORK AREA SHALL BE CLEANED AND ALL CONSTRUCTION DEBRIS AND DEMOLISHED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT A LEGAL DUMP. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL LEAVE THE WORK AREA AND SITE CLEAN AND IN THE SAME CONDITION AS PRIOR TO THE CONSTRUCTION OF THIS PROJECT.
56	CONTRACTOR SHALL MAKE SITE VISITS AND SURVEY EXISTING CONDITIONS DURING BID PERIOD.
57	CONTRACTOR SHALL SUBMIT THE FINAL COMPACTION REPORT(S) AND SOILS ENGINEER'S INSPECTION REPORT TO THE INSPECTOR OF RECORD PRIOR TO FOUNDATION INSPECTION BY IOR AND STRUCTURAL ENGINEER AND PRIOR TO POURING ANY CONCRETE.
58	WHERE WORK IMPACTS TURF AND PLANTED AREAS IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL LANDSCAPING AND RETURN THE AREA TO ITS ORIGINAL CONDITION.
59	COMPENSATION INSURANCE MUST BE ON FILE BEFORE A PERMIT CAN BE ISSUED.
60	A CALIFORNIA STATE DIVISION OF INDUSTRIAL SAFETY PERMIT IS REQUIRED FOR EXCAVATION FIVE OR MORE FEET IN DEPTH AND FOR THE DEMOLITION OR CONSTRUCTION OF BUILDINGS OVER 36 FEET IN HEIGHT.
61	UPON CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL FURNISH MANUFACTURER'S SAFETY DATA LITERATURE (MSDS) FOR ALL HAZARDOUS MATERIALS BROUGHT ON SITE TO PERFORM THE WORK UNDER THIS CONTRACT. WARRANTIES AND GUARANTEES SHALL ALSO BE INCLUDED WITH THIS SUBMITTAL.
62	CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CHANGE ORDER SIGNED BY ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
63	A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART1, TITLE 24, CCR. CLASS 1 INSPECTOR.
64	ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
65	ALL FURNITURE REPRESENTED IS TO BE FURNISHED AND INSTALLED BY THE OWNER. FURNITURE IS SHOWN FOR REQUIRED CLEARANCES.
66	A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
67	THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
68	GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

SYMBOLS



ABBREVIATIONS

NOTES - ABBREVIATIONS

ABBREV.	DESCRIP.
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A.D.	AREA DRAIN
A.W.B	AIR AND WEATHER BARRIER
A/C	AIR CONDITIONING
ABS.	ABSOLUTE
ABV.	ABOVE
ACC	ACCESSIBLE
ACOU.	ACOUSTIC
A.C.T.	ACOUSTIC TILE CEILING
ADJ.	ADJUSTABLE
ADJA.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
AHU	AIR HANDLER UNIT
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APL	ASSUMED PROPERTY LINE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
AVG.	AVERAGE
B.M.	BEAM
B.O.	BOTTOM OF
B.U.R.	BUILT-UP ROOFING
B.O.D.	BASIS OF DESIGN
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
C. B.	CATCH BASIN
C. BD.	CHALKBOARD
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.O.	CLEAN OUT
C.T.	CERAMIC TILE
CAB	CABINET
CEM	CEMENT
CER.	CERAMIC
CL	CENTERLINE
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
CTR.	CENTER
CTSK.	COUNTERSUNK
D.	DEEP, DEPTH
D.F.	DRINKING FOUNTAIN
D.S.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
D/W	DISHWASHER
DBL.	DOUBLE
DEMO	DEMOLITION
DEPT.	DEPARTMENT
DET.	DETAIL
DIA. ( )	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
E.A.	EXPANSION ANCHOR
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
EA.	EACH
EL	ELEVATION
ELECT.	"ELECTRIC, ELECTRICAL"
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EWC	ELECTRIC DRINKING WATER COOLER
EXIST., (E)	EXISTING
EXT.	EXTERIOR
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
F.O.	FACE OF
F.O.B.	FACE OF BLOCK
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.R.P.	FIBERGLASS REINFORCED PANEL
FA	FIRE ALARM
FAB.	FABRICATE
FD	FLOOR DRAIN
FDN.	FOUNDATION
FHC	FIRE HOSE CABINET
FIN.	FINISH
FL	FLOOR
FLG.	FLOORING
FLUOR.	FLUORESCENT
G.I.	GALVANIZED IRON
GA.	GAUGE
GALV.	GALVANIZED
GAR.	GARAGE
GB.	GRAB BAR
GL	GLASS
GLB	GLUE LAMINATED BEAM
GYP. BD.	GYPSUM BOARD
GYP.	GYPSUM
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HDBD.	HARDBOARD
HDW.	HARDWARE
HGT.	HEIGHT
HOR.	HORIZONTAL
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING"
HW	HOT WATER
I.D.	INSIDE DIAMETER
INCL.	"INCLUDE, INCLUSIVE"
INSUL.	INSULATION
INT.	INTERIOR
IOR	INSPECTOR OF RECORD
JAN.	JANITOR
JST.	JOIST
KIT.	KITCHEN
L.R.	LIVING ROOM
LAM	LAMINATE
LAV	LAVATORY
LT.	LIGHT
LTG.	LIGHTING

NOTES - ABBREVIATIONS

ABBREV.	DESCRIP.
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
M.O.	MASONRY OPENING
MAS.	MASONRY
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFG.	MANUFACTURING
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTL.	METAL
M.D.	METAL DECK
MUL	MULLION
(N)	NEW
N.G.	NATURAL GRADE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED"
O.I.	ORNAMENTAL IRON
O/	OVER
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
P. LAM.	PLASTIC LAMINATE
P.I.P.	POURED IN PLACE
P.L.	PROPERTY LINE
P.P.	PIPE PENETRATION
P.T.D.	PAPER TOWEL DISPENSER
PERF.	PERFORATED
PERP.	PERPENDICULAR
PH	PANIC HARDWARE
PHS	PHASE
PLAST.	PLASTER
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PORC.	PORCELAIN
PREFAB.	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN.	PARTITION
PVC	POLY-VINYL CHLORIDE
Q.T.	QUARRY TILE
QTY.	QUANTITY
R.	RISER
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
R.H.	ROBE HOOK
R.O.	ROUGH OPENING
RAD.	RADIUS
REF	REFRIGERATOR
REINF.	REINFORCED
REQ'D	REQUIRED
RESIL.	RESILIENT
REV.	REVISION
RM	ROOM
S.A.M.	SELF ADHERED MEMBRANE
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.D.	SOAP DISPENSER
S.F.	SQUARE FEET
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SD.	SMOKE DETECTOR
SECT.	SECTION
SHR.	SHOWER
SHT'G.	SHEATHING
SIM.	SIMILAR
SL.	SLOPE
SLDG.	SLIDING
SPECS	SPECIFICATIONS
SPKR.	SPEAKER
SQ. IN.	SQUARE INCHES
STC	SOUND TRANSMISSION CLASS
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
SUSP.	SUSPENDED
SYM	SYMMETRICAL
SYS.	SYSTEM
T.B.	TACKBOARD
T & G	TONGUE AND GROOVE
T.O.	TOP OF
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOOTING
T.O.J.	TOP OF JOIST
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.R.	TOP OF ROOF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.S.	TUBE STEEL
T.V.	TELEVISION OUTLET
TEL.	TELEPHONE
TH.	THRESHOLD
THD.	THREADED
THK.	THICK
THRU	THROUGH
TRANS.	TRANSFORMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
W.B.	WHITEBOARD
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W.S.P.	WET STAND PIPE
W.S.	WINDOW SHADE
W/C	WATER CLOSET
W/O	WITHOUT
WCT	WAINSCOT
WD.	WOOD
WT.	WEIGHT
W/	WITH
YD.	YARD

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123205 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/02/2023

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA
92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

Design Collective
ARCHITECTURE PLANNING INTERIORS
LANDSCAPE ARCHITECTURE GRAPHICS

PROJECT TITLE
COMPTON COLLEGE
STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD, COMPTON, CA 90221

Compton College

ISSUED		
#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET NUMBER
G1.20-01

CONSTRUCTION DOCUMENTS

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole–foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC–3, #9202
1315 East–West Highway
Silver Spring, MD 20910–3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713–3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later and from National Geospatial Intelligence Agency imagery produced at a scale of 1:4,000 from photography dated 2003 or later.

This map reflects more detailed and up–to–date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the *Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

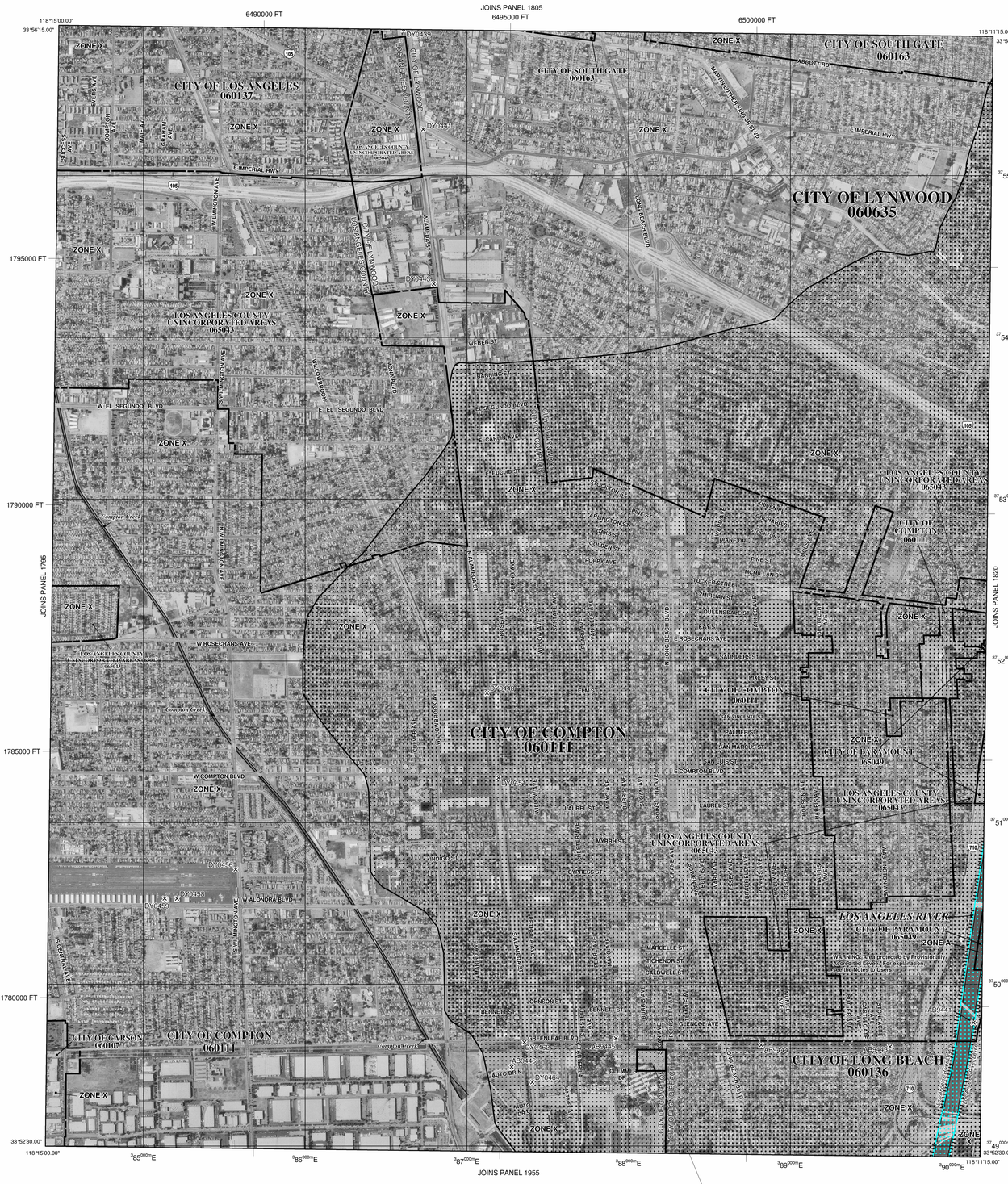
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de–annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1–800–358–9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, *a Flood Insurance Study report,* and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1–800–358–9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1–877–FEMA MAP** (1–877–336–2627) or visit the FEMA website at http://www.fema.gov/.

WARNING: This levee, dike, or other structure has been provisionally accredited and mapped as providing protection from the 1-percent-annual-chance flood. To maintain accreditation, the levee owner or community is required to submit documentation necessary to comply with 44 CFR Section 65.10 by October 16, 2009. Because of the risk of overtopping or failure of the structure, communities should take proper precautions to protect lives and minimize damages in these areas, such as issuing an evacuation plan and encouraging property owners to purchase flood insurance.



PROJECT SITE
ZONE X

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** No Base Flood Elevations determined.
- **ZONE AE** Base Flood Elevations determined.
- **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275'000"N — 1000-meter Universal Transverse Mercator grid values, zone 11
- 6000000 FT — 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1–800–638–6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP

PANEL 1815F

FIRM
FLOOD INSURANCE RATE MAP
LOS ANGELES COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 1815 OF 2350
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LOS ANGELES COUNTY	065043	1815	F
CARSON, CITY OF	060107	1815	F
COMPTON, CITY OF	060111	1815	F
LONG BEACH, CITY OF	060136	1815	F
LOS ANGELES, CITY OF	060137	1815	F
LYNWOOD, CITY OF	060635	1815	F
PARAMOUNT, CITY OF	065049	1815	F
SOUTH GATE, CITY OF	060163	1815	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06037C1815F
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123205 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/02/2023

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA
92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

Design Collective
ARCHITECTURE PLANNING INTERIORS
LANDSCAPE ARCHITECTURE GRAPHICS

PROJECT TITLE
COMPTON COLLEGE
STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD, COMPTON, CA 90221

Compton College

ISSUED

#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
FEMA FLOOD MAP

SHEET NUMBER
G5.10-01

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
   A. PROJECT SPECIFICATIONS.
   B. ALL SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC).
   C. 2022 CALIFORNIA BUILDING CODE.
   D. CITY OF COMPTON AS APPLICABLE.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXACT EXISTING CONDITIONS UNLESS CONCEALED BEFORE SUBMITTING HIS BID. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE DISTRICT.

   UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED THAT UTILITY OWNERS CAN BE NOTIFIED.

   PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SECTION 5-8 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

   REMOVALS:

7. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THESE CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATION) SHALL BE REPORTED TO AND COORDINATED WITH THE ARCHITECT/PROJECT INSPECTOR AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE PROJECT INSPECTOR IN WRITING PRIOR TO COMMENCING THE WORK.
8. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE PROJECT INSPECTOR AND GEOTECHNICAL ENGINEER. SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED AS REQUIRED FOR APPROVAL AND PERMITTING.
9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
10. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
11. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FACILITIES, EXISTING CONSTRUCTION FENCING, APPURTENANCES, OFFICE TRAILERS FROM THE SITE, TEMPORARY UTILITIES. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT; DAMAGED FEATURES OR FACILITIES SHOULD BE REPAIRED OR REPLACED PER CONTRACT REQUIREMENTS.
12. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
13. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER.
14. GRADE LAWN, TURF, AND PLANTING AREA 1-1/2" BELOW DESIGN GRADES INDICATED.
15. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLANS. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
16. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE ROUGH GRADING SITE, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
17. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
18. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE JURISDICTIONAL AGENCY REPRESENTATIVE OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
19. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR, PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
20. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8' TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND STAGING AREA SHALL BE SECURE ATALL TIMES.
21. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUND WATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.
22. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ARCHITECT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
24. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL FOLLOW ALL COVID 19 – OSHA SAFETY GUIDELINES AND STANDARDS DURING CONSTRUCTION.
25. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
26. ALL FILL OR BACKFILL SHALL BE COMPACTED 90% DENSITY PER ASTM D1557.
27. VOID RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE OWNER RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO 90% DENSITY PER ASTM D1557.

GENERAL GEOTECHNICAL NOTES:

1. ALL WORK MUST BE IN COMPLIANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL CONSULTANT'S REPORT(S) AND THE APPROVED GRADING PLANS AND SPECIFICATIONS.
2. SITE GEOTECHNICAL INVESTIGATION WAS PREPARED BY UNIVERSAL ENGINEERING SCIENCES. PROJECT NO. 4230.2200060.0000, ENTITLED "GEOTECHNICAL ENGINEERING REPORT: PROPOSED STUDENT HOUSING 1111 E ARTESIA BLVD, COMPTON, CALIFORNIA 90221." DATED FEBRUARY 1, 2023. THIS REPORT IS PART OF THE CONSTRUCTION DOCUMENTS AND SHALL BE IMPLEMENTED BY THE CONTRACTOR AS APPLICABLE.
3. FOUNDATIONS FOR SMALL APPURTENANT STRUCTURES, SUCH AS GARDEN WALLS, TRASH ENCLOSER WHICH WILL NOT BE TIED-IN TO THE PROPOSED BUILDING, MAY BE SUPPORTED ON CONVENTIONAL SHALLOW FOUNDATIONS BEARING INTO CERTIFIED COMPACTED FILL. A MINIMUM OF 12 INCHES BELOW THE LOWEST ADJACENT GRADE CAN BE DESIGNED WITH AN ALLOWABLE BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT (PSF).
4. IN THE AREA OF THE PROPOSED IMPROVEMENTS, INCLUDING STRUCTURES, ROADWAYS, AND MINOR DISTRESS-SENSITIVE IMPROVEMENTS, EXISTING FILL MATERIAL AND ANY ERODED, DESICCATED, BURROWED, DISTURBED SOILS FROM AGRICULTURAL USE, OR OTHERWISE LOOSE OR DISTURBED SOILS SHOULD BE EXCAVATED TO THE MINIMUM DEPTHS OF SIX FEET IN THE AREAS OF PROPOSED BUILDINGS, TO THE DEPTH OF SUITABLE NATIVE MATERIALS, OR TO A MINIMUM 24 INCHES BELOW THE BOTTOM OF ALL FOOTINGS, WHICHEVER DEPTH IS GREATEST.

GENERAL GEOTECHNICAL NOTES (cont'd):

5. REMOVALS SHALL EXTENT AT LEAST FIVE FEET LATERALLY BEYOND THE PERIMETER OF THE PROPOSED STRUCTURES, WHERE FEASIBLE.
6. ANY EXISTING UTILITY BACKFILL PRESENT WITHIN THE PRISM CREATED BY A 1:1 PLANE EXTENDING FROM THE OUTER EDGES OF THE FOOTINGS TO SUITABLE MATERIAL UP TO TEN FEET BEYOND THE BUILDING PERIMETER SHALL BE OVER-EXCAVATED AND ONE-SACK CEMENT/SAND SLURRY OR COMPACTED FILL SOIL SHALL BE PLACED IN THE RESULTING AREA, AS FEASIBLE.
7. AN ENGINEER OR GEOLOGIST FROM UES SHALL OBSERVE THE EXPOSED GROUND SURFACE PRIOR TO SCARIFICATION, IF NECESSARY.
8. FILL AND BACKFILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT AT A MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENTS, AS EVALUATED BY ASTM D1557, THE OPTIMUM LIFT THICKNESS FOR FILL SOIL WILL DEPEND ON THE TYPE OF COMPACTION EQUIPMENT USED; HOWEVER DUE TO THE POTENTIAL FOR THE RELATIVELY SHALLOW GROUNDWATER TO EXHIBIT UPWARD CAPILLARY MOVEMENT, RELATIVELY HEAVY AND/OR VIBRATORY COMPACTION EQUIPMENT MAY NOT BE EFFECTIVE WHEN BACKFILLING OVER-EXCAVATIONS OR WHILE COMPACTING FILL WITHIN A FEW FEET OF THE ACTUAL GROUNDWATER LEVELS.
9. IMPORTED FILL BENEATH STRUCTURES, PAVEMENTS AND WALKS SHALL HAVE AN EXPANSION INDEX OF 20 OR LESS (ASTM D 4829). IMPORTED FILL SOILS FOR USE IN STRUCTURAL OR SLOPE AREAS SHALL BE EVALUATED BY THE SOILS ENGINEER BEFORE IMPORTATION TO THE SITE. IMPORTED FILL SOILS MAY BE SUBJECT TO DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) SCREENING REQUIREMENTS, AS DETERMINED BY THE OWNER.
10. THE STRUCTURAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR REINFORCEMENT OF ANY SPREAD FOOTINGS AND FOOTINGS WITH PIPE PENETRATIONS.
11. FOOTING EXCAVATIONS SHALL GENERALLY BE MAINTAINED AT ABOVE OPTIMUM MOISTURE CONTENT UNTIL CONCRETE PLACEMENT.
12. ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY SOIL ENGINEER DURING EXCAVATION, AND PRIOR TO PLACEMENT OF REINFORCING STEEL OR FORMWORK. THE FOUNDATION EXCAVATIONS SHALL BE MOISTENED TO AT LEAST OPTIMUM MOISTURE CONTENT.
13. MINIMUM SLAB REINFORCEMENT SHALL CONSIST OF A MINIMUM OF NUMBER 4 REINFORCING BARS PLACED ON 18-INCH CENTERS, EACH WAY, AT OR ABOVE MID-SLAB HEIGHT, BUT WITH PROPER CONCRETE COVER, OR AS PER THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER.
14. SLABS SUBJECTED TO HEAVIER LOADS MAY REQUIRE THICKER SLAB SECTIONS AND/OR INCREASED REINFORCEMENT. A 120-PCI SUBGRADE MODULUS IS CONSIDERED SUITABLE FOR ELASTIC DESIGN OF MINIMALLY EMBEDDED IMPROVEMENTS SUCH AS SLABS-ON-GRADE.
15. SUBGRADE MATERIALS SHALL BE MAINTAINED NEAR OR ABOVE OPTIMUM MOISTURE CONTENT UNTIL SLAB UNDERLAYMENT OR CONCRETE ARE PLACED.
16. TEMPORARY EXCAVATIONS FOR THE DEMOLITION, EARTHWORK, FOOTINGS, RETAINING WALLS AND UTILITY TRENCHES ARE EXPECTED TO BE UP TO 4 FEET IN HEIGHT. DUE TO RELATIVELY LOOSE CONDITION OF SHALLOW ONSITE SOILS, TEMPORARY, UNSURCHARGED EXCAVATION SIDES SHALL BE SLOPED NO STEEPER THAN AN INCLINATION OF 1.5H:1V (HORIZONTAL:VERTICAL). WHERE SLOPED EXCAVATIONS ARE CREATED, THE TOPS OF THE SLOPES SHALL BE BARRICADED SO THAT VEHICLES AND STORAGE LOADS DO NOT ENCROACH WITHIN 10 FEET OF THE TOP OF THE EXCAVATED SLOPES. A GREATER SETBACK MAY BE NECESSARY WHEN CONSIDERING HEAVY VEHICLES, SUCH AS CONCRETE TRUCKS AND CRANES. UES SHALL BE ADVISED OF SUCH HEAVY VEHICLE LOADINGS SO THAT SPECIFIC SETBACK REQUIREMENTS CAN BE ESTABLISHED. IF THE TEMPORARY CONSTRUCTION SLOPES ARE TO BE MAINTAINED DURING THE RAINY SEASON, BERMS ARE RECOMMENDED TO BE GRADED ALONG THE TOPS OF THE SLOPES IN ORDER TO PREVENT RUNOFF WATER FROM ENTERING THE EXCAVATION AND ERODING THE SLOPE FACES.
17. PRIOR TO CONSTRUCTION OF THE PAVEMENT, THE SUBGRADE FOR THE PROPOSED PAVEMENT SHALL BE MOISTURE CONDITIONED TO A DEPTH OF 12 INCHES AND COMPACTED TO ACHIEVE 95 PERCENT. THE AGGREGATE BASE SECTION SHALL THEN BE PLACED, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO ACHIEVE 95 PERCENT RELATIVE COMPACTION. THE HMA SECTION SHALL BE IN ACCORDANCE WITH THE CITY OF COMPTON REQUIREMENTS AND SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION.
18. DISCHARGE FROM DOWNSPOUTS, ROOF DRAINS AND SCUPPERS SHALL NOT BE PERMITTED ON UNPROTECTED SOILS WITHIN FIVE FEET OF THE BUILDING PERIMETER. DRAINAGE SHALL NOT BE ALLOWED TO POND ANYWHERE ON THE SITE, AND ESPECIALLY NOT AGAINST ANY FOUNDATION OR RETAINING WALL.
19. PLANTERS WHICH ARE LOCATED WITHIN FIVE FEET OF A FOUNDATION SHALL BE SEALED TO PREVENT MOISTURE AFFECTING THE EARTH MATERIALS SUPPORTING THE FOUNDATION.
20. AREAS THAT ARE TO RECEIVE COMPACTED FILL SHALL BE OBSERVED BY SOIL/GEOTECHNICAL ENGINEER (GE) OR HIS/HER REPRESENTATIVE PRIOR TO THE PLACEMENT OF FILL.
21. ALL DRAINAGE DEVICES SHALL BE PROPERLY INSTALLED AND OBSERVED BY GE AND/OR OWNER'S REPRESENTATIVE(S) PRIOR TO PLACEMENT OF BACKFILL.
22. FILL SOILS SHALL CONSIST OF IMPORTED SOILS OR ON-SITE SOILS FREE OF ORGANICS, COBBLES, AND DELETERIOUS MATERIAL PROVIDED EACH MATERIAL IS APPROVED BY GE. GE SHALL EVALUATE AND/OR TEST THE IMPORT MATERIAL FOR ITS CONFORMANCE WITH THE REPORT RECOMMENDATIONS PRIOR TO ITS DELIVERY TO THE SITE. THE CONTRACTOR SHALL NOTIFY GE 72 HOURS PRIOR TO IMPORTING MATERIAL TO THE SITE.
23. FILL SHALL BE PLACED IN CONTROLLED LAYERS (LIFTS), THE THICKNESS OF WHICH IS COMPATIBLE WITH THE TYPE OF COMPACTION EQUIPMENT USED. THE FILL MATERIALS SHALL BE BROUGHT TO OPTIMUM MOISTURE CONTENT OR ABOVE, THOROUGHLY MIXED DURING SPREADING TO OBTAIN A NEAR UNIFORM MOISTURE CONDITION AND UNIFORM BLEND OF MATERIALS, AND THEN PLACED IN LAYERS WITH A THICKNESS (LOOSE) NOT EXCEEDING 8 INCHES. EACH LAYER SHALL BE COMPACTED TO A MINIMUM COMPACTION OF 90% RELATIVE TO THE MAXIMUM DRY DENSITY DETERMINED PER THE LATEST ASTM D1557 TEST. DENSITY TESTING SHALL BE PERFORMED BY GE TO VERIFY RELATIVE COMPACTION. THE CONTRACTOR SHALL PROVIDE PROPER ACCESS AND LEVEL AREAS FOR TESTING.
24. ROCKS OR ROCK FRAGMENTS LESS THAN EIGHT (8) INCHES IN THE LARGEST DIMENSION MAY BE UTILIZED IN THE FILL, PROVIDED THEY ARE NOT PLACED IN CONCENTRATED POCKETS, EXCEPT ROCKS LARGER THAN FOUR (4) INCHES SHALL NOT BE PLACED WITHIN THREE (3) FEET OF FINISH GRADE.
25. ROCKS GREATER THAN EIGHT (8) INCHES IN LARGEST DIMENSION SHALL BE TAKEN OFFSITE OR PLACED IN ACCORDANCE WITH THE RECOMMENDATION OF THE SOILS ENGINEER IN AREAS DESIGNATED AS SUITABLE FOR ROCK DISPOSAL.
26. WHERE SPACE LIMITATIONS DO NOT ALLOW FOR CONVENTIONAL FILL COMPACTION OPERATIONS, SPECIAL BACKFILL MATERIALS AND PROCEDURES MAY BE REQUIRED. PEA GRAVEL OR OTHER SELECT FILL CAN BE USED IN AREAS OF LIMITED SPACE. A SAND AND PORTLAND CEMENT SLURRY (2 SACKS PER CUBIC-YARD MIX) SHALL BE USED IN LIMITED SPACE AREAS FOR SHALLOW BACKFILL NEAR FINAL PAD GRADE, AND PEA GRAVEL SHALL BE PLACED IN DEEPER BACKFILL NEAR DRAINAGE SYSTEMS.
27. GE SHALL OBSERVE THE PLACEMENT OF FILL AND CONDUCT IN-PLACE FIELD DENSITY TESTS ON THE COMPACTED FILL TO CHECK FOR ADEQUATE MOISTURE CONTENT AND THE REQUIRED RELATIVE COMPACTION. WHERE LESS THAN SPECIFIED RELATIVE COMPACTION IS INDICATED, ADDITIONAL COMPACTING EFFORT SHALL BE APPLIED AND THE SOIL MOISTURE CONDITIONED AS NECESSARY UNTIL ADEQUATE RELATIVE COMPACTION IS ATTAINED.
28. THE CONTRACTOR SHALL COMPLY WITH THE MINIMUM RELATIVE COMPACTION OUT TO THE FINISH SLOPE FACE OF FILL SLOPES, BUTTRESSES, AND STABILIZATION FILLS AS SET FORTH IN THE SPECIFICATIONS FOR COMPACTED FILL. THIS MAY BE ACHIEVED BY EITHER OVERBUILDING THE SLOPE AND CUTTING BACK AS NECESSARY, OR BY DIRECT COMPACTION OF THE SLOPE FACE WITH SUITABLE EQUIPMENT, OR BY ANY OTHER PROCEDURE THAT PRODUCES THE REQUIRED RESULT.
29. ANY ABANDONED UNDERGROUND STRUCTURES SUCH AS CESSPOOLS, CISTERNS, MINING SHAFTS, TUNNELS, SEPTIC TANKS, WELLS, PIPELINES, OR OTHERS NOT DISCOVERED PRIOR TO GRADING ARE TO BE REMOVED OR TREATED TO THE SATISFACTION OF THE SOILS ENGINEER AND/OR THE CONTROLLING AGENCY FOR THE PROJECT.
30. THE CONTRACTOR SHALL HAVE SUITABLE AND SUFFICIENT EQUIPMENT DURING A PARTICULAR OPERATION TO HANDLE THE VOLUME OF FILL BEING PLACED. WHEN NECESSARY, FILL PLACEMENT EQUIPMENT SHALL BE SHUT DOWN TEMPORARILY IN ORDER TO PERMIT PROPER COMPACTION OF FILLS, CORRECTION OF DEFICIENT AREAS, OR TO FACILITATE REQUIRED FIELD-TESTING.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL EARTHWORK IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
32. FINAL REPORTS SHALL BE SUBMITTED AFTER COMPLETION OF EARTHWORK AND AFTER THE SOILS ENGINEER AND ENGINEERING GEOLOGIST HAVE FINISHED THEIR OBSERVATIONS OF THE WORK. NO ADDITIONAL EXCAVATION OR FILLING SHALL BE PERFORMED WITHOUT PRIOR NOTIFICATION TO THE SOILS ENGINEER AND/OR ENGINEERING GEOLOGIST.
33. WHENEVER THE WORDS "SUPERVISION", "INSPECTION" OR "CONTROL" ARE USED, THEY SHALL MEAN OBSERVATION OF THE WORK AND/OR TESTING OF THE COMPACTED FILL BY GE TO ASSESS WHETHER SUBSTANTIAL COMPLIANCE WITH PLANS, SPECIFICATIONS AND DESIGN CONCEPTS HAS BEEN ACHIEVED, AND DOES NOT INCLUDE DIRECTION OF THE ACTUAL WORK OF THE CONTRACTOR OR THE CONTRACTOR'S WORKMEN.

SHEET INDEX:

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2025
RENEWAL DATE
STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

MCA ENGINEERS INC
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REGISTERED PROFESSIONAL ENGINEER
No. C56078
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED

#	DATE	DESCRIPTION
A	03/01/2024	REVISION A

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, GEOTECHNICAL NOTES AND SHEET INDEX

SHEET NUMBER

C-1.0-01

CONSTRUCTION DOCUMENTS

LEGEND:

- CONCRETE PAVEMENT
- NEW FIRELANE
- PLANTER AREA PER LANDSCAPE
- TRUNCATED DOME
- STRIPING PER ARCHITECTURAL
- RUBBER PLAY SURFACE PER LANDSCAPE
- BLDG
- SYNTHETIC TURF PER LANDSCAPE
- SEAT WALL PER LANDSCAPE
- EXISTING FIRELANE
- A
  - COBBLE MAINTENANCE BAND
  - DECOMPOSED GRANITE
  - ASPHALT CONCRETE PAVEMENT
- AIR CONDITIONER — A/C
- CAR -STOP
- CHAIN LINK FENCE (CLF) — x — x —
- CENTER LINE
- COLUMN
- COMM MANHOLE — CMH
- COMMUNICATION — COMM
- DOMESTIC WATER LINE — DW —
- DRAINAGE INLET
- DRAINAGE INLET
- DOWNSPOUT
- ELECTRICAL — E
- ELECTRICAL CONDUIT — E —
- ELECTRICAL PANEL — EPNL
- ELECTRICAL PULLBOX — EPB
- ELECTRICAL MANHOLE — EMH
- EXISTING GRADE CONTOUR — 150.00 —
- EXISTING GRADE ELEVATION — (150.00)
- FINISHED GRADE ELEVATION — 150.00
- FINISHED GRADE CONTOUR — 150.00
- FIRE WATER LINE — FW —
- FRENCH DRAIN LINE — FD —
- FLOW LINE
- GRADE BREAK — GB —
- GAS LINE — G —
- IRRIGATION LINE — IRR —
- PROPERTY LINE
- RIDGE LINE — R —
- TRAFFIC SIGNAL LINE — TS —
- STORM DRAIN LINE — SD —
- SEWER LINE — SS —
- FENCE
- FLAGPOLE
- FIRE HYDRANT
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION — FDC
- FIRE DEPARTMENT CONTROL
- GAS VALVE — GV
- GAS METER — GM
- GAS VALVE
- GAURD RAIL
- GRID
- GUIDE WIRE
- IRRIGATION CONTROL VALVE — ICV
- IRRIGATION PULLBOX — IPB
- LIGHT POLE
- LIGHT POLE

LEGEND (cont'd):

- MANHOLE — MH
- MANHOLE SEWER — S
- MANHOLE — MH
- POWER POLE
- PALM TREE
- POST
- POST INDICATOR VALVE — PIV
- POWER POLE
- PULL BOX — PB
- RAIL
- SEWER CLEAN OUT
- SEWER MANHOLE — S
- SEWER PULLBOX — SPB
- SPOT ELEV — 100.1
- SIGN
- STORM DRAIN MANHOLE — D
- SEWER MANHOLE — SD
- STREET LIGHT
- STRET LIGHT PULLBOX — SLPB
- SIGN
- SURVEY CONTROL POINT
- TRAFFIC SIGNAL PULLBOX — TSPB
- TRANSFORMER — TRNSFRMR
- TREES
- VALVE — V
- VAULT — VAULT
- WATER METER — WM
- WATER METER — WPB
- WATER VALVE
- WOODEN FENCE

ABBREVIATIONS:

AC	ASPHALT CONCRETE
AD	AREA DRAIN
APRN	APRON OF DRIVEWAY
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BBS	BOTTOM OF STEP
BC	BEGINNING OF CURVE
BFP	BACK FLOW PREVENTER
BLD	BUILDING
BM	BENCHMARK
BRAMP	BOTTOM OF RAMP
BS	BLUE STRIPE
BSW	BACK OF WALK
BWAL	BOTTOM OF WALL
BX	BOTTOM OF CURB AT X
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CC OR CONC	CONCRETE
CDRAIN	CURB DRAIN
CEFB	CITY ENGINEER FIELD BOOK
CF	CURB FACE
℄	CENTERLINE
C	CAST IRON
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMB	CRUSHED MISCELLANEOUS BASE
CMH	COMMUNICATION MANHOLE
CO	CLEANOUT
CONC	CONCRETE
CPB	CABLE PULLBOX
CPM	CONSTRUCTION PROJECT MANAGER
CSLAB	CONCRETE SLAB

ABBREVIATIONS (cont'd):

DF	DRINKING FOUNTAIN
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DDSG	DRIVE DOUBLE-LEAF SWING GATE
DMH	DRAIN MAINTENANCE HOLE
DS	DOWNSPOUT/DRAIN
DW	DOMESTIC WATER
DWG(S)	DRAWING(S)
DWP	DEPARTMENT OF WATER AND POWER
DWY	DRIVEWAY
E	EAST
EC	END OF CURVE/EDGE OF CONCRETE
EDS	EDISON
EG	EDGE OF GUTTER/EXISTING GRADE
ELEC	ELECTRICAL
EL, ELEV	ELEVATION
EJ	EXPANSION JOINT
EP	EDGE OF PAVEMENT
EPB	ELECTRICAL PULLBOX
EPIPE	ELECTRICAL PIPE
EPNL	ELECTRICAL PANEL
EVAULT	ELECTRICAL VAULT
EXIST, EX	EXISTING
EXP	EXPANSION
FB	FIELD BOOK
FD	FRENCH DRAIN/FOUND
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FND	FOUNDATION
FS	FINISH SURFACE
FT	FEET
FW	FIRE WATER
G	GAS
GB	GRADE BREAK
GM	GAS METER
GRD	GROUND
GS	GREEN STRIPE
GVLT	GAS VAULT
GV	GAS VALVE
HP	HIGH POINT
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
IE	INVERT ELEVATION
IIE	INLET INVERT ELEVATION
INV	INVERT
IPB	IRRIGATION PULLBOX
IRR	IRRIGATION
ITEM NO.	ITEM SHOWN ON PTR
L	LENGTH
LP	LIGHT POLE
MAX	MAXIMUM
MEAS	MEASURED
MH	MAINTENANCE HOLE, MANHOLE
MIN	MINIMUM
MOW	MOWSTRIP
N	NORTH
NPR	NEWSPAPER RACK
OAR	OWNERS AGENT REPRESENTITIVE
OC	ON CENTER
OIE	OUTLET INVERT ELEVATION
OS	ORANGE STRIPE
P	PROPORTIONED
PA	PLANTER AREA
PB	PULLBOX
PCC	PORTLAND CONCRETE CEMENT
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PM	PUNCH MARK ON MANHOLE, PARKING METER
PP	POWER POLE
PTR	PRELIMINARY TITLE REPORT
PSG	PEDESTRIAN SWING GATE
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT

ABBREVIATIONS (cont'd):

R	RADIUS (GEOMETRY), RIDGE (GRADING), RECORD (SURVEY)
RCP	REINFORCED CONCRETE PIPE
RDRAIN	ROOF DRAIN
REF	REFERENCE
RW	RIGHT OF WAY
S	SLOPE, SOUTH, SEWER
SCO	SEWER CLEANOUT
SD	STORM DRAIN
'SD'	STORM DRAIN MANHOLE
SDR	STANDARD PIPE DIMENSION RATIO
SSMH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
SLPB	STREET LIGHT PULLBOX
SPB	SEWER PULLBOX
SPK	SPIKE
SS	SANITARY SEWER
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STA	STATION, STD(S), STANDARD(S)
S&W	SPIKE & WASHER
SW	SIDEWALK
T	TANGENT
TA	TREE AREA
TAD	TOP OF AREA DRAIN
TC	TOP OF CONCRETE OR CURB
TCB	TOP OF CATCH BASIN
TCO	TOP OF CLEAN OUT
TE	TOP ELEVATION
TEL	TELEPHONE
TEL VLT	TELEPHONE VAULT
TG	TOP OF GRATE
TH	THRESHOLD
TMH	TELEPHONE MANHOLE
TMS	TOP OF MOW STRIP
TOS	TOP OF SLOPE, TOP OF SLAB
TOE	TOP OF EMBANKMENT
TRANSFRM	TRANSFORMER
TRAMP	TOP OF RAMP
TSPB	TRAFFIC SIGNAL PULLBOX
TTS	TOP OF STEP
TWAL	TOP OF WALL
TX	TOP OF RAMP/TOP OF CURB AT X
TYP	TYPICAL
U/G	UNDERGROUND
UTIL	UTILITY
UV	UTILITY VAULT
VCP	VITRIFIED CLAY PIPE
VIF	VERIFY IN FIELD
VV	VAULT IN VENTS
W	DOMESTIC WATER, WEST
WIF	WROUGHT IRON FENCE
WM	WATER METER
WS	WHITE STRIPE
WV	WATER VALVE
WVLT	WATER VAULT
YB	YARD BOX
(W,S,G,E)	(WATER, SEWER, GAS, ELECTRICAL)
YS	YELLOW STRIPE

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A# 03-123205 INC: 01

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

PROJECT TITLE
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INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

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PROJECT IDENTIFICATION

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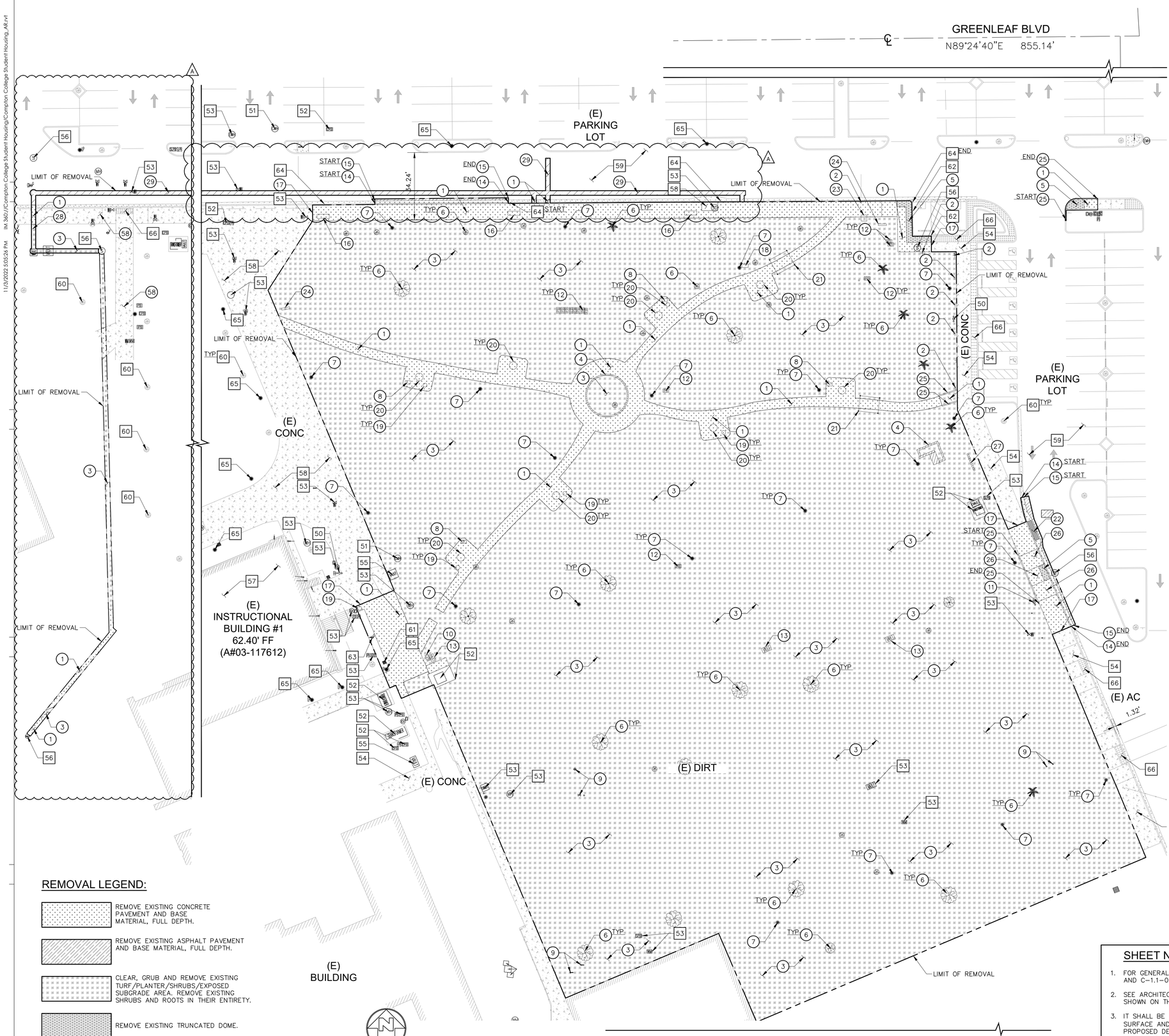
SHEET TITLE
LEGENDS AND ABBREVIATIONS

SHEET NUMBER
C-1.1-01

CONSTRUCTION DOCUMENTS



REMOVAL LEGEND:

- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
- REMOVE EXISTING TRUNCATED DOME.
- REMOVE EXISTING WALL IN ITS ENTIRETY.
- LIMIT OF REMOVAL

OVERALL SITE DEMOLITION PLAN

20 10 0 20 40

SCALE: 1" = 20'

REMOVAL NOTES:

1. REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
2. REMOVE, SALVAGE AND REINSTALL EXISTING POST SIGN AT THE SAME LOCATION.
3. CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.
4. REMOVE EXISTING WALL/CURB WALL AND FOOTINGS IN ITS ENTIRETY.
5. REMOVE EXISTING TRUNCATED DOME IN ITS ENTIRETY.
6. REMOVE EXISTING TREES IN ITS ENTIRELY. COORDINATE WITH LANDSCAPE DRAWINGS AND COLLEGE PRIOR TO REMOVAL.
7. REMOVE EXISTING STREET LIGHT IN ITS ENTIRETY. CAP AND PLUG AS REQUIRED. COORDINATE WITH ELECTRICAL DRAWINGS.
8. REMOVE EXISTING DRINKING FOUNTAIN IN ITS ENTIRETY. CAP AND PLUG AS REQUIRED.
9. REMOVE EXISTING UTILITY PULL BOX, MANHOLE, WATER VALVE, OR CLEANOUTS.
10. REMOVE AND RELOCATE COMMUNICATION PULLBOX.
11. REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
12. REMOVE EXISTING IRRIGATION PULLBOX. COODRINATE WITH LANDSCAPE DRAWINGS FOR RELOCATION.
13. REMOVE AND RELOCATE EXISTING VAULT.
14. REMOVE EXISTING CURB AND GUTTER IN ITS ENTIRETY.
15. SAWCUT AND JOIN ASPHALT PAVEMENT TO MATCH EXISTING.
16. REMOVE EXISTING BENCH. SALVAGE AND RETURN TO OWNER.
17. SAWCUT AND JOIN CONCRETE PAVEMENT/WALKWAY TO MATCH EXISTING.
18. REMOVE EXISTING STREET LIGHT PULLBOX.
19. REMOVE EXISTING TRASH CAN. SALVAGE AND RETURN TO OWNER.
20. REMOVE EXISTING TABLE. SALVAGE AND RETURN TO OWNER.
21. REMOVE EXISTING CANOPY AND ITS FOOTINGS IN ITS ENTIRETY. SALVAGE AND RETURN TO OWNER.
22. REMOVE, SALVAGE AND RELOCATE EXISTING STORM DRAIN INLET.
23. REMOVE EXISTING PAYBOOTH. SALVAGE AND RETURN TO OWNER.
24. REMOVE EXISTING DIRECTORY/POST SIGNS.SALVAGE AND RETURN TO OWNER.
25. REMOVE EXISTING CURB IN ITS ENTIRETY.
26. REMOVE EXISTING CURB RAMP.
27. REMOVE EXISTING DRAIN INLET.
28. REMOVE AND RELOCATE EMERGENCY UTILITY.
29. REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL, FULL DEPTH.

PROTECT-IN-PLACE NOTES:

50. PROTECT IN PLACE FIRE HYDRANT. ADJUST TO NEW DESIGN GRADES AS REQUIRED.
51. PROTECT IN PLACE EXISTING COMMUNICATION MANHOLE.
52. PROTECT IN PLACE EXISTING ELECTRICAL PAD AND EQUIPMENT. COORDINATE WITH ELECTRICAL DRAWINGS FOR EXISTING ELECTRICAL ITEMS TO REMAIN.
53. PROTECT IN PLACE EXISTING UTILITY PULL BOX, MANHOLE, WATER VALVE, AND CLEANOUTS. ADJUST TO NEW DESIGN GRADES AS REQUIRED.
54. PROTECT IN PLACE EXISTING CONCRETE WALKWAY/SIDEWALK, AND BASE MATERIAL, FULL DEPTH.
55. PROTECT IN PLACE EXISTING ELECTRICAL VAULT.
56. PROTECT IN PLACE EXISTING SEWER MANHOLE.
57. PROTECT IN PLACE EXISTING BUILDING.
58. PROTECT IN PLACE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
59. PROTECT IN PLACE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
60. PROTECT IN PLACE EXISTING TREES.
61. PROTECT IN PLACE EXISTING STORM DRAIN INLET.
62. PROTECT IN PLACE EXISTING CURB.
63. PROTECT IN PLACE EXISTING GAS VALVE.
64. PROTECT IN PLACE EXISTING CURB AND GUTTER.
65. PROTECT IN PLACE EXISTING STREET LIGHT.
66. PROTECT IN PLACE EXISTING TRUNCATED DOME.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0-01 AND C-1.1-01.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

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SHEET TITLE
OVERALL SITE DEMOLITION PLAN

SHEET NUMBER

CD-1.0-01

CONSTRUCTION DOCUMENTS

GREENLEAF BLVD
N89°24'40"E 855.14'

HARBOR AVENUE
N0°22'14"W 2564.05'

ARTESIA BLVD
N89°44'09"E 1512.12'

(E) PARKING LOT

(E) PARKING LOT

(E) CONC

(E) INSTRUCTIONAL BUILDING #1
62.40' FF
(A#03-117612)

(E) CONC

(E) BUILDING

(E) AC

(E) CONC

LEGEND:

REMOVE EXISTING UNDERGROUND UTILITY LINES AND APPURTENANCES IN ITS ENTIRETY.

REMOVAL NOTES:

1. REMOVE EXISTING SEWER LINE AND APPURTENANCES IN ITS ENTIRETY. CAP AND PLUG BOTH ENDS AS REQUIRED.
2. REMOVE EXISTING WATER LINE IN ITS ENTIRETY. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
3. REMOVE EXISTING WATER VALVE.
4. REMOVE EXISTING ELECTRICAL LINE IN ITS ENTIRETY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. REMOVE EXISTING STREET LIGHT IN ITS ENTIRETY. CAP AND PLUG AS REQUIRED. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
6. REMOVE EXISTING STREET LIGHT LINE IN ITS ENTIRETY. CAP AND PLUG AS REQUIRED. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
7. REMOVE AND RELOCATE EXISTING CATCH BASIN/DRAIN INLET AND APPURTENANCES IN ITS ENTIRETY.
8. REMOVE EXISTING STORM DRAIN LINE AND APPURTENANCES IN ITS ENTIRETY. CAP AND PLUG BOTH ENDS AS REQUIRED.
9. REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
10. REMOVE AND RELOCATE EXISTING BACK FLOW PREVENTER.
11. REMOVE EXISTING DRINKING FOUNTAIN IN ITS ENTIRETY. CAP AND PLUG AS REQUIRED.
12. REMOVE EXISTING IRRIGATION PULLBOX.
13. REMOVE AND RELOCATE EXISTING VAULT.
14. REMOVE AND REPLACE EXISTING SEWER LINE AND APPURTENANCES IN ITS ENTIRETY. CAP AND PLUG BOTH ENDS AS REQUIRED.

A
15. REMOVE EXISTING SEWER EJECTOR AND APPURTENANCES IN ITS ENTIRETY. DISTRICT TO COORDINATE AND DISPOSED.
16. REMOVE AND RELOCATE EXISTING EMERGENCY POLE.

PROTECT-IN-PLACE NOTES:

50. PROTECT IN PLACE EXISTING ELECTRICAL LINE.
51. PROTECT IN PLACE EXISTING TELECOMMUNICATIONS LINE.
52. PROTECT IN PLACE EXISTING SEWER LINE AND BEND.
53. PROTECT IN PLACE EXISTING WATER LINE.
54. PROTECT IN PLACE EXISTING GAS LINE.
55. PROTECT IN PLACE EXISTING FIRE WATER LINE.
56. PROTECT IN PLACE EXISTING STORM DRAIN LINE.
57. PROTECT IN PLACE EXISTING ELECTRICAL VAULT, TRANSFORMER, CONDUITS IN ITS ENTIRETY.
58. PROTECT IN PLACE EXISTING STREET LIGHT LINE
59. PROTECT IN PLACE EXISTING TELECOMMUNICATION BOX/VAULT, MANHOLE CONDUITS IN ITS ENTIRETY.
60. PROTECT IN PLACE FIRE HYDRANT.
61. PROTECT IN PLACE VAULT.
62. PROTECT IN PLACE EXISTING WATER VALVE.
63. PROTECT IN PLACE EXISTING STORM DRAIN MANHOLE.

A
64. PROTECT IN PLACE EXISTING SANITARY SEWER MANHOLE.
65. PROTECT IN PLACE EXISTING WATER MANHOLE.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0-01 AND C1.1-01.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

UTILITY DEMOLITION PLAN

20 10 0 20 40

SCALE: 1" = 20'

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STATE OF CALIFORNIA

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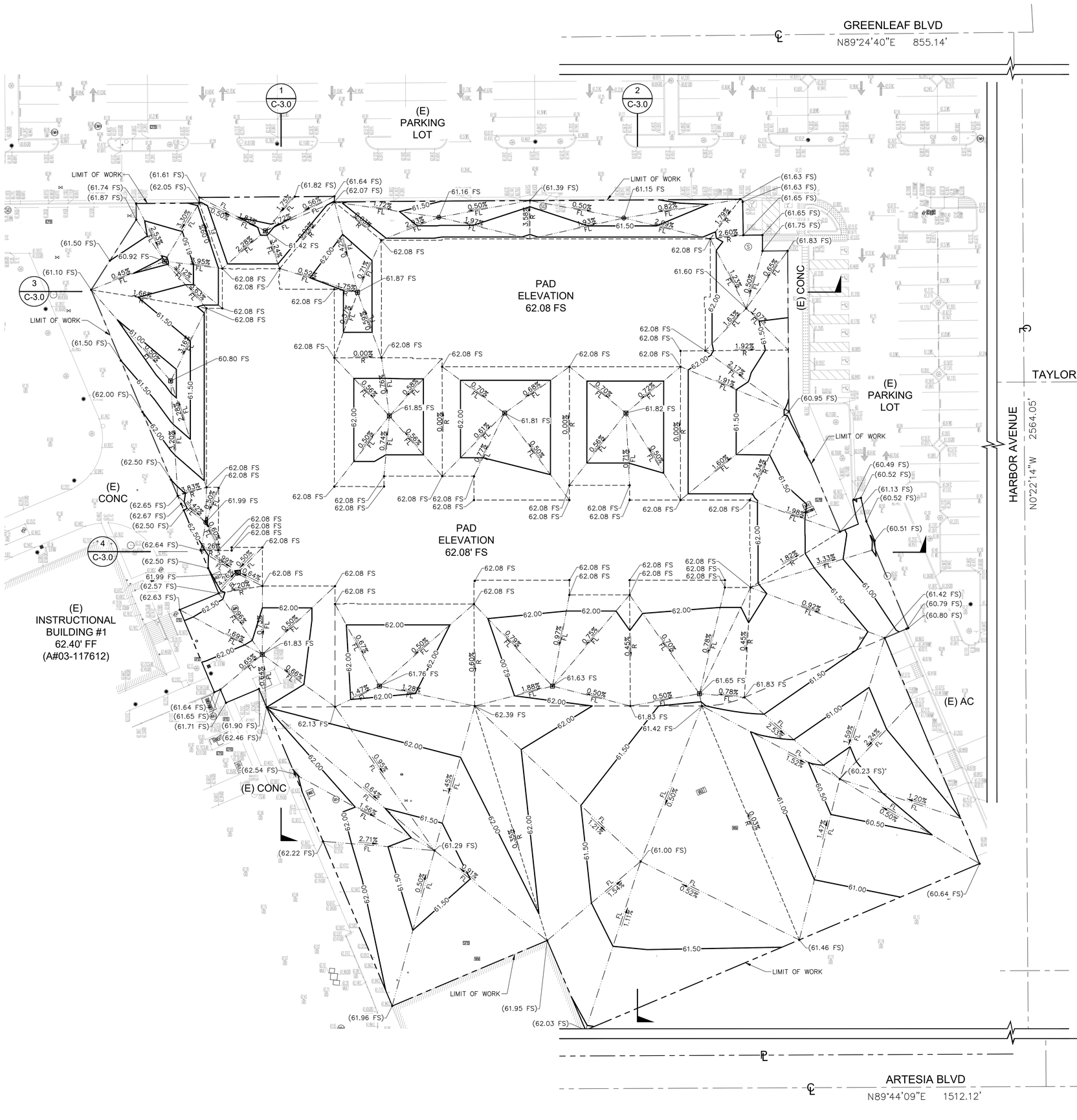
UTILITY DEMOLITION PLAN

SHEET NUMBER
CD-1.1-01

CONSTRUCTION DOCUMENTS



ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT = 1225 CY
ESTIMATED FILL = 438 CY

ESTIMATED EXPORT = 787 CY

NOTES:

1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE FOR REFERENCE ONLY TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL, FOUNDATION AND SLAB ON GRADE VOLUMES, THE REMOVAL OF ANY UNSUITABLE MATERIAL, AND THE REMOVAL OF EXISTING BASEMENTS, PITS, VAULTS, TOP SOIL OR VEGETATION.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION OR ANY OVER EXCAVATION QUANTITIES.
4. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
5. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
6. FILL MATERIAL SHALL COMPLY WITH THE GEOTECHNICAL INVESTIGATION, AND BE APPROVED BY THE GEOTECHNICAL ENGINEER.
7. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE OVEREXCAVATION.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEET C-1.0-01 AND C-1.1-01.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. FOR PAVEMENT MARKINGS AND STRIPING, RAMP WITH HANDRAILS, PLANTER AREA, TRASH ENCLOSURE AND TRANSFORMER ENCLOSURE, SEE ARCHITECTURAL DRAWINGS. FOR LANDSCAPING AND IRRIGATION FEATURES, CONCRETE PAVEMENT PATTERN, TEXTURE AND COLOR INTEGRATION, SEE LANDSCAPE DRAWINGS. FOR GAS, SEWER, ROOF DRAINS, FIRE & DOMESTIC WATER LINES POINTS OF CONNECTION AT BUILDING, SEE MECHANICAL AND PLUMBING DRAWINGS OF THE BUILDING. FOR TRANSFORMER ENCLOSURE AND CONCRETE PAD, SEE ELECTRICAL DRAWINGS.
4. FOR CATCH BASIN LOCATIONS AND GRATE ELEVATIONS AND INVERTS SEE UTILITY PLAN. IF TOP OF GRATE ELEVATIONS ARE DIFFERENT FROM GRADING CATCH BASIN ELEVATIONS SHOWN ON THIS SHEET, NOTIFY CPM AND ENGINEER.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
6. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
7. CONTRACTOR SHALL VERIFY DEMOLITION PLAN WITH EXISTING CONDITIONS AND REPORT ANY MISSING ITEMS THAT REQUIRE DEMOLITION PRIOR TO CONSTRUCTION.

ROUGH GRADING PLAN

20 10 0 20 40

SCALE: 1" = 20'

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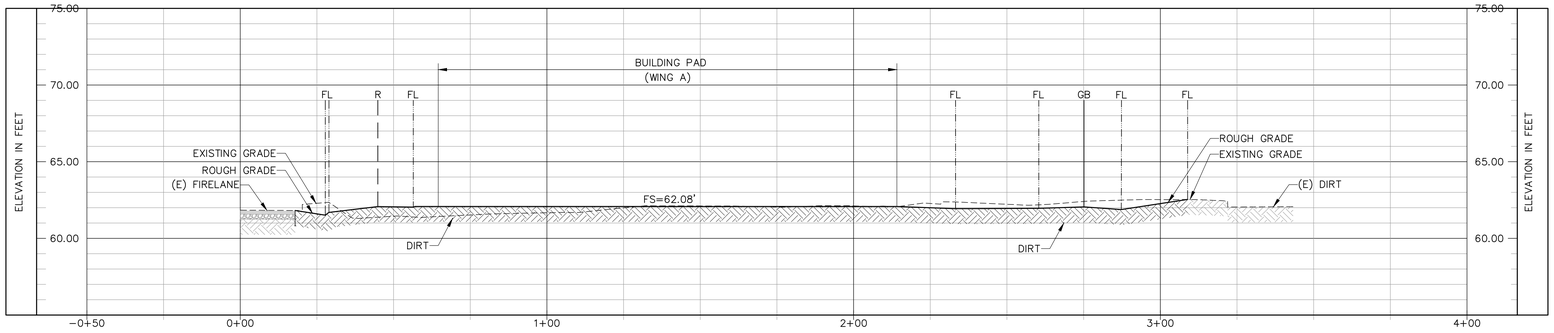
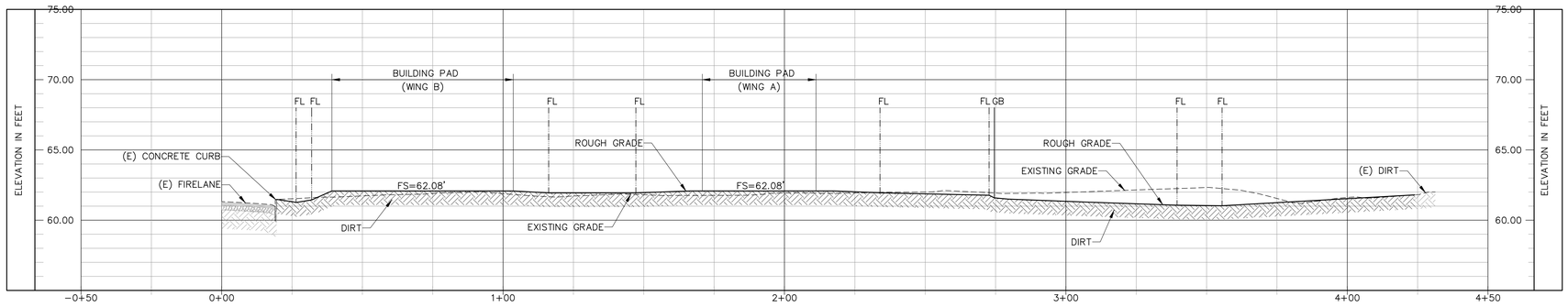


GRADING SECTION 1 / C-3.0
SCALE HOR 1"=20' VER 1"=4'



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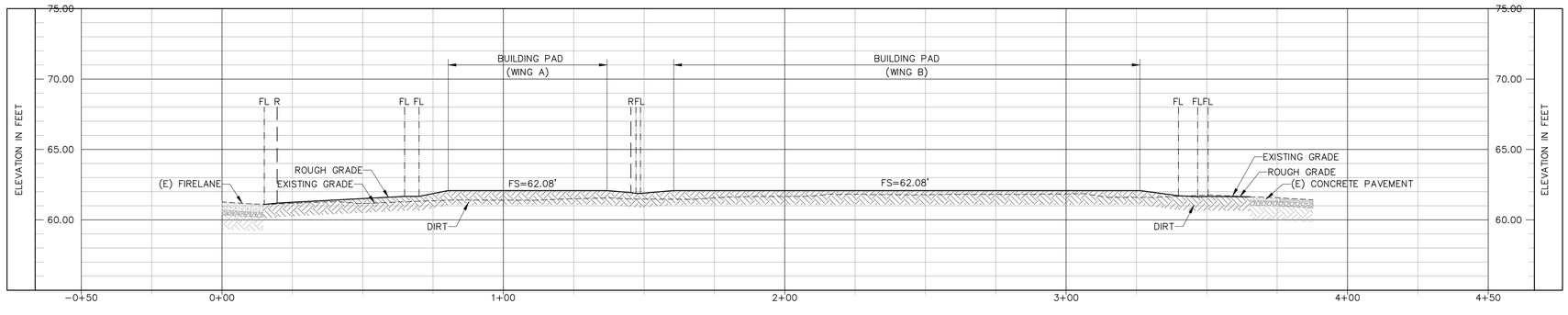
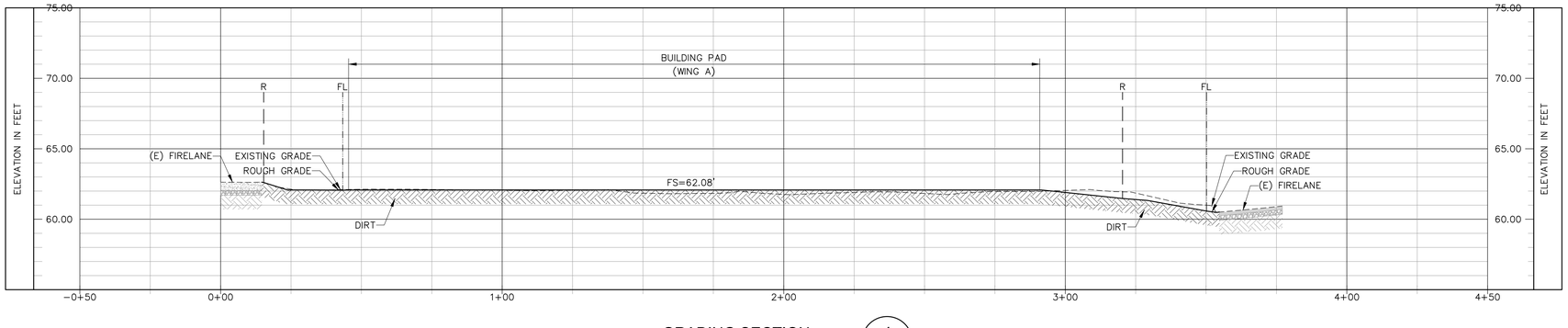


GRADING SECTION 3 / C-3.0
SCALE HOR 1"=20' VER 1"=4'



GRADING SECTION 4 / C-3.0
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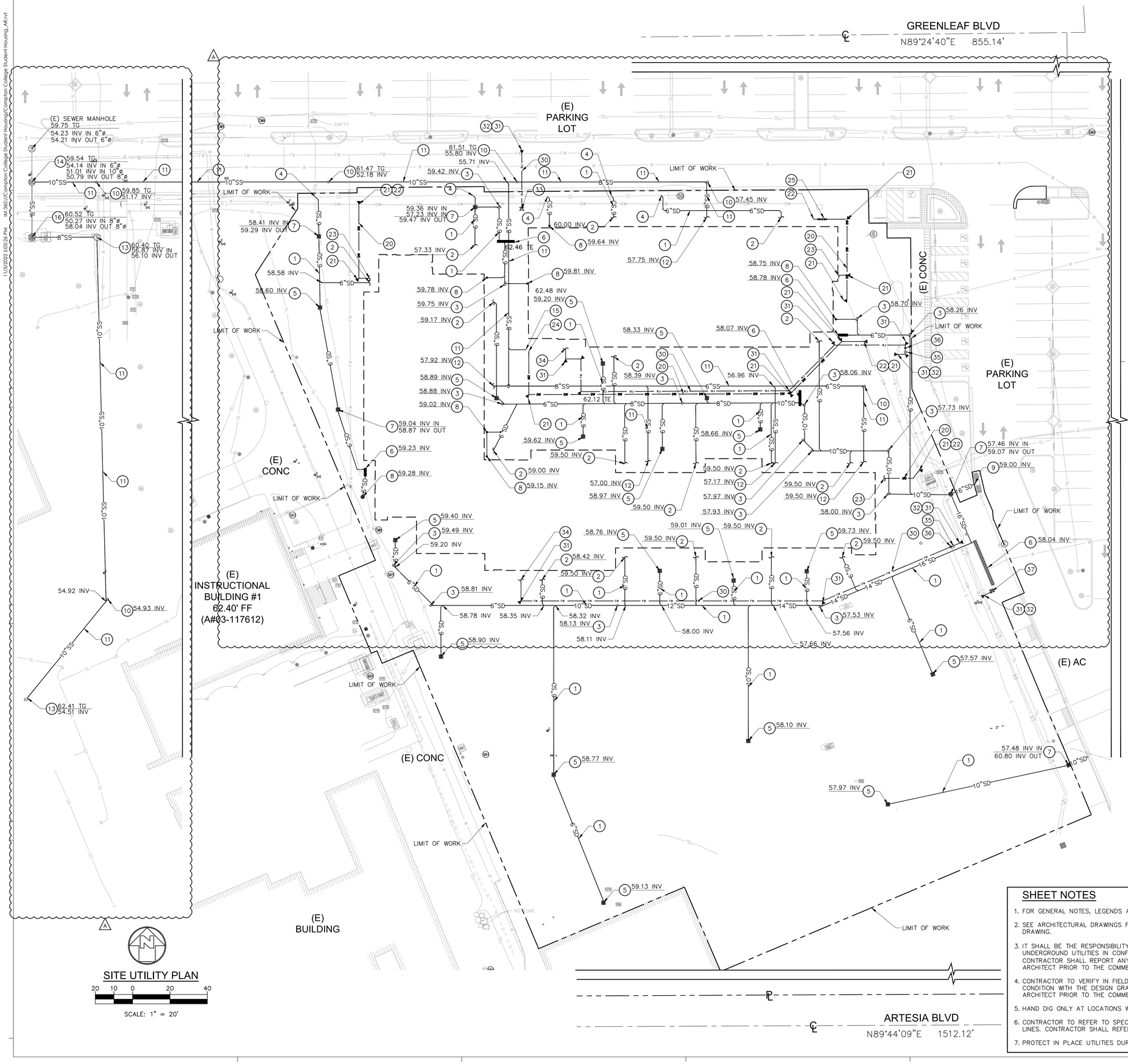

SITE UTILITY PLAN

20 10 0 20 40

SCALE: 1" = 20'

CONSTRUCTION NOTES:

STORM DRAIN:

1. INSTALL SDR-35 STORM DRAIN LINE, SEE PLAN FOR SIZES. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0-01.
2. PROVIDE STUB OUT FOR FUTURE CONNECTION TO BUILDING LINE. CONNECTION TO BUILDING PER MEP DRAWINGS IN INC 2 PACKAGE.
3. INSTALL STORMDRAIN CLEANOUT PER DETAIL 6 ON SHEET C-5.0-01.
4. CONNECT TO EXISTING STORM DRAIN LINE. VERIFY IN FIELD EXACT LOCATION, INVERT AND DEPTH PRIOR TO CONSTRUCTION. COORDINATE WITH LA COUNTY FLOOD CONTROL DISTRICT PRIOR TO CONNECTION.
5. CONSTRUCT CATCH BASIN WITH KRISTAR FILTER INSERT PER DETAIL 1 ON SHEET C-5.0-01.
6. INSTALL TRENCH DRAIN PER DETAIL 3 ON SHEET C-5.1-01.
7. CONSTRUCT BUBBLER CATCH BASIN PER DETAIL 2 ON SHEET C-5.1-01.
8. CONSTRUCT AREA DRAIN PER DETAIL 4 ON SHEET C-5.1-01.
9. CONNECT TO RELOCATED EXISTING CATCH BASIN/DRAIN INLET.

SANITARY SEWER:

10. INSTALL SEWER CLEANOUT PER DETAIL 6 ON SHEET C-5.0-01.
11. INSTALL PVC SCHEDULE 40 SANITARY SEWER LINE, SEE PLAN FOR SIZES. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0-01.
12. PROVIDE STUB OUT FOR FUTURE CONNECTION TO BUILDING LINE. CONNECTION TO BUILDING PER MEP DRAWINGS IN INC 2 PACKAGE.
13. CONNECT TO EXISTING ONSITE SANITARY SEWER LINE/MANHOLE. CONTRACTOR TO VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. CONTRACTOR TO VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF SANITARY SEWER SYSTEM.
14. INSTALL SEWER MANHOLE PER SPPWC STD. PLAN 200-4.
15. CONNECT SEWER LINE TO DRINKING FOUNTAIN.
16. INSTALL SEWER PUMP WITH GRINDER PER DETAIL 1 ON SHEET C-5.2-01.

DOMESTIC WATER:

20. INSTALL AWWA C900 PVC DOMESTIC WATER LINE, MATCH EXISTING PIPE SIZE. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0-01.
21. INSTALL CONCRETE THRUST BLOCK PER DETAIL 7 ON SHEET C-5.0-01.
22. CONNECT TO EXISTING ONSITE WATER LINE. CONTRACTOR TO VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. CONTRACTOR TO VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/ INSTALLATION OF NEW DOMESTIC WATER SYSTEM.
23. PROVIDE STUB OUT FOR FUTURE CONNECTION TO BUILDING LINE. CONNECTION TO BUILDING PER MEP DRAWINGS IN INC 2 PACKAGE.
24. CONNECT WATER LINE TO DRINKING FOUNTAIN.
25. REINSTALL EXISTING WATER BACKFLOW PREVENTER.

FIRE WATER:

30. INSTALL AWWA C900 PVC, PRESSURE CLASS 200(DR14) FIRE WATER LINE. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0-01.
31. INSTALL CONCRETE THRUST BLOCK PER DETAIL 7 ON SHEET C-5.0-01.
32. CONNECT TO EXISTING ONSITE FIRE WATER LINE. CONTRACTOR TO VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. CONTRACTOR TO VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF NEW FIRE WATER SYSTEM.
33. INSTALL NEW FIRE HYDRANT PER DETAIL 2 ON SHEET C-5.0-01.
34. PROVIDE STUB OUT FOR FUTURE CONNECTION TO BUILDING LINE. CONNECTION TO BUILDING PER FIRE PROTECTION DRAWINGS IN INC 2 PACKAGE.
35. INSTALL FIRE DEPARTMENT CONNECTION PER DETAIL 5 ON SHEET C-5.1-01
36. INSTALL POST INDICATOR VALVE PER DETAIL 3 ON SHEET C-5.0-01.
37. RELOCATED EXISTING FIRE HYDRANT.

SHEET NOTES

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0-01 AND C-1.1-01.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
5. HAND DIG ONLY AT LOCATIONS WHERE UNDERGROUND UTILITIES NEED TO BE PROTECTED IN PLACE.
6. CONTRACTOR TO REFER TO SPECIFICATIONS FOR THE REQUIRED COVER OF THE PROPOSED WATER LINES. CONTRACTOR SHALL REFER TO INCREMENT 2 GRADING PLAN FOR FINISH SURFACE ELEVATION.
7. PROTECT IN PLACE UTILITIES DURING DEEP SOIL MIXING.

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SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2025 RENEWAL DATE STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

MCA ENGINEERS INC
CIVIL & STRUCTURAL
1041 S. Garfield Avenue, Suite #210
Alhambra, CA 91801
Tel: 323.729.6098 Fax: 323.729.6043

PROFESSIONAL ENGINEER No. C36078 Exp. 6/30/24 CIVIL STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

ISSUED		
#	DATE	DESCRIPTION
A	03/01/2024	REVISION A

PROJECT IDENTIFICATION

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

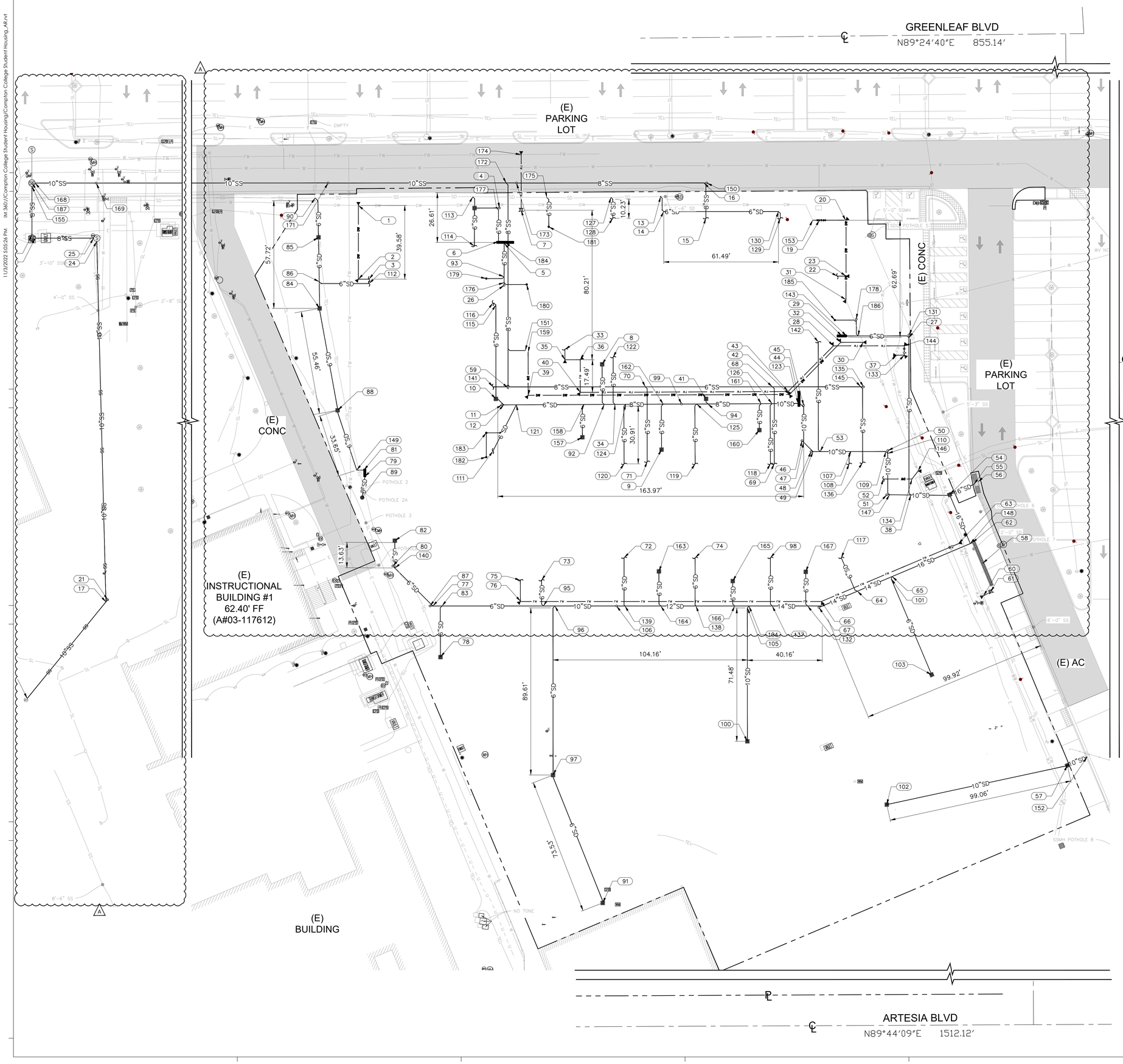
SHEET TITLE

SITE UTILITY PLAN

SHEET NUMBER

C-4.0-01

CONSTRUCTION DOCUMENTS



SITE UTILITY COORDINATES PLAN

SCALE: 1" = 20'

Point Coordinate Table		
Point #	**Northing**	**Easting**
1	7,040.29	4,041.15
2	7,000.72	4,041.14
3	7,000.72	4,046.84
4	7,038.86	4,116.75
5	7,019.96	4,119.30
6	7,020.96	4,116.25
7	7,037.73	4,128.39
8	6,955.09	4,171.80
9	6,909.38	4,203.63
10	6,936.57	4,114.83
11	6,933.35	4,118.05
12	6,933.36	4,119.05
13	7,044.96	4,203.14
14	7,036.99	4,204.80
15	7,033.36	4,227.40
16	7,052.26	4,226.40
17	6,827.74	3,828.06
18	6,776.04	3,785.88
19	7,032.31	4,288.22
20	7,032.16	4,302.34
21	6,828.90	3,829.01
22	7,002.33	4,297.87
23	7,002.33	4,302.51
24	7,021.00	3,823.18
25	7,022.74	3,821.44
26	6,997.39	4,119.24
27	6,969.30	4,336.23
28	6,964.98	4,295.75
29	6,970.30	4,300.30
30	6,966.87	4,311.67
31	6,989.75	4,302.49
32	6,966.87	4,299.74
33	6,963.10	4,151.85
34	6,933.61	4,178.66
35	6,957.52	4,151.85
36	6,957.52	4,160.06
37	6,959.98	4,329.59
38	6,885.04	4,337.23
39	6,938.45	4,132.15
40	6,940.03	4,160.06
41	6,936.57	4,227.49
42	6,938.90	4,272.18
43	6,940.51	4,271.49
44	6,934.04	4,277.80
45	6,933.06	4,279.80
46	6,914.15	4,278.94
47	6,913.30	4,279.80
48	6,908.30	4,283.80
49	6,908.30	4,284.80
50	6,908.80	4,324.85
51	6,885.16	4,324.35
52	6,893.62	4,322.49
53	6,908.30	4,288.66
54	6,885.21	4,358.06
55	6,890.72	4,371.05
56	6,892.10	4,373.32
57	6,740.12	4,421.17
58	6,848.39	4,375.74
59	6,942.52	4,121.33
60	6,831.00	4,376.22
61	6,833.13	4,380.15
62	6,859.43	4,370.20
63	6,858.96	4,362.80
64	6,833.48	4,308.63
65	6,841.34	4,327.30
66	6,827.96	4,289.31
67	6,824.78	4,287.99
68	6,943.02	4,263.05
69	6,901.72	4,264.05
70	6,943.02	4,194.94
71	6,902.87	4,195.94
72	6,851.40	4,183.57
73	6,839.32	4,139.33
74	6,851.35	4,221.64
75	6,839.37	4,127.98

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SHEET TITLE
SITE UTILITY COORDINATES PLAN

SHEET NUMBER
C-4.1-01

CONSTRUCTION DOCUMENTS

11/3/2022 5:03:26 PM IM 360://Compton College Student Housing/Compton College Student Housing_AR.rvt

A

Point Coordinate Table

Point #	Northing	Easting
76	6,828.05	4,128.07
77	6,825.54	4,081.04
78	6,798.16	4,085.13
79	6,894.87	4,044.59
80	6,846.97	4,059.60
81	6,898.36	4,044.09
82	6,860.56	4,060.66
83	6,825.54	4,086.01
84	6,985.06	4,020.38
85	7,023.15	4,019.78
86	6,999.36	4,020.18
87	6,825.54	4,079.54
88	6,930.45	4,030.01
89	6,883.64	4,043.22
90	7,044.25	4,017.95
91	6,666.39	4,172.12
92	6,933.58	4,172.89
93	7,002.04	4,119.24
94	6,933.83	4,228.50
95	6,825.54	4,140.33
96	6,825.54	4,146.48
97	6,734.93	4,145.48
98	6,851.31	4,261.96
99	6,933.77	4,214.33
100	6,753.00	4,249.64

Point Coordinate Table

Point #	Northing	Easting
101	6,840.03	4,326.76
102	6,719.08	4,324.37
103	6,788.70	4,348.40
104	6,825.43	4,250.54
105	6,824.50	4,249.65
106	6,825.54	4,179.54
107	6,908.30	4,305.17
108	6,901.73	4,304.17
109	6,908.30	4,323.85
110	6,907.30	4,324.85
111	6,908.55	4,113.27
112	6,998.36	4,046.82
113	7,044.84	4,102.46
114	7,018.43	4,103.26
115	6,986.88	4,114.83
116	6,987.88	4,113.26
117	6,851.35	4,300.01
118	6,901.73	4,261.99
119	6,901.73	4,221.64
120	6,901.73	4,183.57
121	6,933.38	4,125.83
122	6,958.93	4,177.71
123	6,934.04	4,276.80
124	6,933.63	4,184.44
125	6,933.80	4,222.50

Point Coordinate Table

Point #	Northing	Easting
126	6,933.97	4,262.85
127	7,044.58	4,176.50
128	7,033.36	4,177.50
129	7,033.37	4,267.28
130	7,036.99	4,266.29
131	6,970.80	4,336.23
132	6,825.54	4,281.92
133	6,959.98	4,333.72
134	6,893.62	4,337.86
135	6,943.02	4,311.90
136	6,902.28	4,311.35
137	6,825.54	4,262.99
138	6,825.54	4,222.11
139	6,825.54	4,184.05
140	6,845.91	4,060.66
141	6,943.02	4,113.26
142	6,966.94	4,287.66
143	6,970.30	4,302.80
144	6,964.89	4,333.73
145	6,943.02	4,310.40
146	6,897.84	4,341.14
147	6,885.17	4,325.85
148	6,858.97	4,369.12
149	6,898.36	4,040.23
150	7,052.26	4,227.90

Point Coordinate Table

Point #	Northing	Easting
151	6,962.45	4,130.60
152	6,744.63	4,431.78
153	7,032.31	4,284.63
154	7,024.49	3,788.43
155	7,050.51	3,788.39
156	7,022.74	3,790.18
157	6,915.99	4,161.21
158	6,933.54	4,162.14
159	6,961.54	4,132.13
160	6,919.82	4,256.07
161	6,933.95	4,257.01
162	6,933.72	4,204.53
163	6,844.09	4,202.25
164	6,825.54	4,203.24
165	6,838.93	4,241.81
166	6,825.54	4,242.81
167	6,843.87	4,280.92
168	7,052.26	3,790.13
169	7,052.27	3,822.90
170	7,052.26	3,923.90
171	7,052.26	4,024.90
172	7,052.26	4,120.33
173	7,052.26	4,125.90
174	7,067.54	4,128.39
175	7,044.48	4,142.15

Point Coordinate Table

Point #	Northing	Easting
176	6,998.88	4,119.24
177	7,038.85	4,115.25
178	6,979.27	4,308.03
179	7,001.04	4,109.72
180	6,997.88	4,131.36
181	7,028.76	4,143.17
182	6,905.30	4,109.72
183	6,918.36	4,109.72
184	7,020.46	4,119.83
185	6,978.76	4,296.53
186	6,970.30	4,309.03
187	7,052.26	3,788.38

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SITE UTILITY
COORDINATES PLAN

SHEET NUMBER

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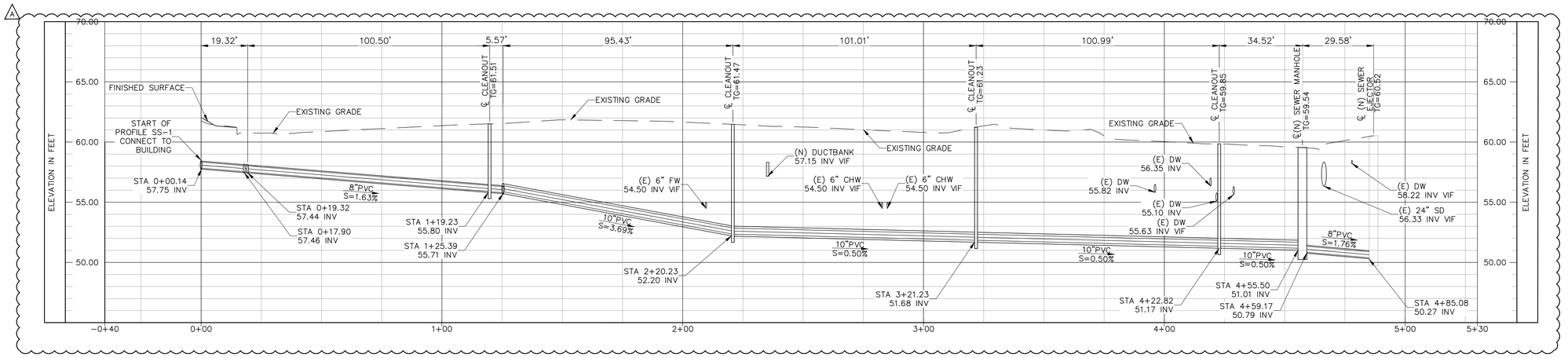
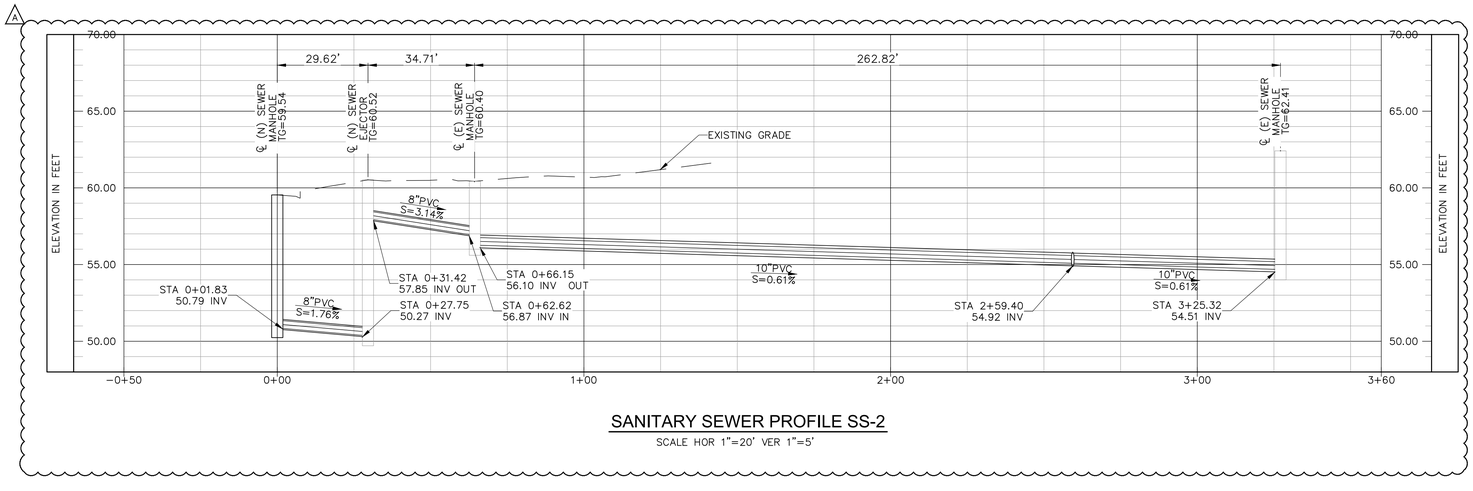
C-4.2-01

CONSTRUCTION DOCUMENTS



SANITARY SEWER PROFILE SS-1

SCALE HOR 1"=20' VER 1"=5'



SANITARY SEWER PROFILE SS-2

SCALE HOR 1"=20' VER 1"=5'

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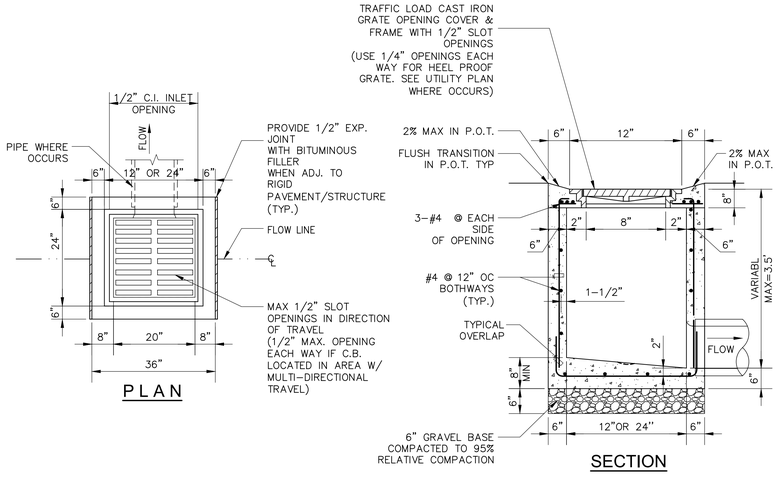
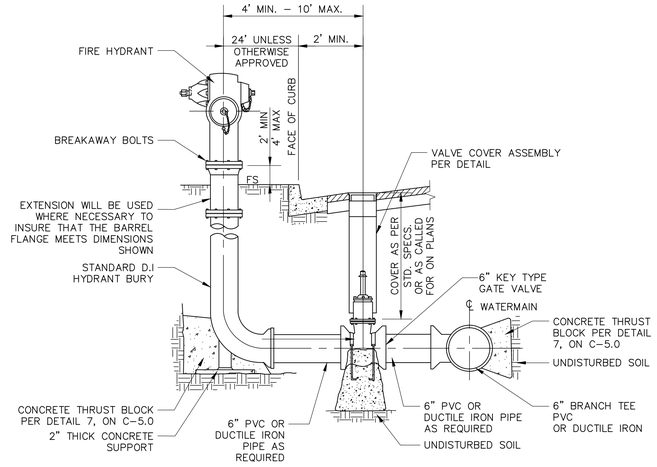


NOTES:

1. USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
3. FRAME AND GRATE SHALL BE SIMILAR TO ALHAMBRA FOUNDRY CO. LTD. SERIES MODEL NO. 1581 OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL. GRATES MUST COMPLY WITH ALL ADA REQUIREMENTS.
4. GRATES SHALL BE OF VANDAL-RESISTANT CONSTRUCTION WITH 1/2" MAX OPENINGS.
5. FRAME AND GRATE SHALL BE TRAFFIC-RATED.
6. GRATE MUST COMPLY WITH ADA REQUIREMENTS.
7. PROVIDE 1/2" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF TRAFFIC FLOW UNLESS OTHERWISE NOTED HEREIN.
8. INSTALL FOSSIL FILTER, KRISTAR, (800) 579-8819, FLOGARD MODEL OR APPROVED EQUAL.
9. PROVIDE "NO DUMPING SYMBOL" PER DETAIL 4 ON SHEET C-5.0-01.
10. SLOPE ADJACENT PAVEMENT AT 2% MAX TOWARDS GRATE WHEN PLACED WITHIN ACCESSIBLE PATH OF TRAVEL PER ARCHITECTURAL DRAWINGS.
11. FOR COURTYARD AREA; PROVIDE 1/4"X 1/4" MAX GRID OPENINGS IN ALL DIRECTIONS IN GRATING.

1 CATCH BASIN DETAIL
NOT TO SCALE



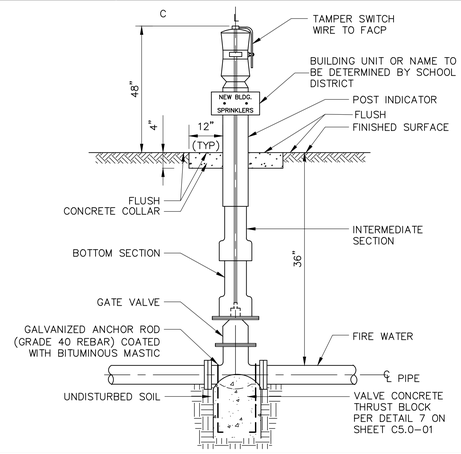
NOTES

1. BARRICADES, FENCES, WALLS, LANDSCAPING, ETC. SHALL NOT BE INSTALLED OR PLANTED WITHIN 3' OF A HYDRANT.
2. FIRE HYDRANT SHALL BE ONE OF THE FOLLOWING
   A. CLOW / RICH - NO. 550, 555 OR 850.
   B. JAMES JONES - NO. J3700 - FLUTED BARREL
   C. MUELLER - A480 - E
3. HYDRANT SHALL BE SUPPLIED WITH 2-1/2" x 4" OUTLETS AND 1-1/4" OR 1-3/4" PENTAGON NUTS ON CUPS AND OPERATING VALVES.
4. HYDRANT SHALL BE PAINTED WITH O.S.H.A. SAFETY YELLOW AMERITONE 719 OR APPROVED EQUAL.
5. HYDRANT BURY, VALVE AND TEE SHALL HAVE EITHER RING-TITE JOINTS OR MECHANICAL JOINTS COMPATIBLE WITH PIPE MATERIAL USED.
6. ALL PIPE AND FITTINGS FOR HYDRANT INSTALLATION SHALL BE CLASS 200.

2 FIRE HYDRANT DETAIL
NOT TO SCALE

NOTES:

1. ALL SIGNS MUST STATE THE ADDRESS OF THE BUILDING BEING SERVED.
2. THE SIGN SHALL BE METAL, PAINTED RED WITH ENGRAVED WHITE LETTERS 1" HIGH.
3. THE SIGN SHALL INDICATE ONLY ADDRESS OR ZONE AND WHAT IT SERVES, I.E. SPRINKLERS, ON SITE HYDRANTS, ETC.
4. SIGNS SHALL BE A MINIMUM OF FOUR INCHES HIGH BY EIGHT INCHES WIDE.
5. SIGN SHALL BE PERMANENTLY BANDED TO THE VALVE WITH U-BOLTS.
6. CONNECT TO ELECTRICAL TAMPER SWITCH.



3 POST INDICATOR VALVE DETAIL
NOT TO SCALE

NOTES:

1. PROVIDE 8" MIN DIAMETER FOR STENCIL.
2. STENCIL IN BLUE PAINT NEAR ALL CATCH BASIN DRAINS TO READ "NO DUMPING, DRAINS TO OCEAN".
3. STENCILS MAY BE PURCHASED AT THE LOCAL COUNTY BUILDING AND SAFETY OFFICE AT 626-458-6390.

4 NO DUMPING SYMBOL
NOT TO SCALE

TABLE 1

MINIMUM BEARING AREAS IN SQ.FT.				
MAIN SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND
6"	4	4	4	3

BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1

TEES,PLUGS,CAPS & HYDRANTS.

TABLE II

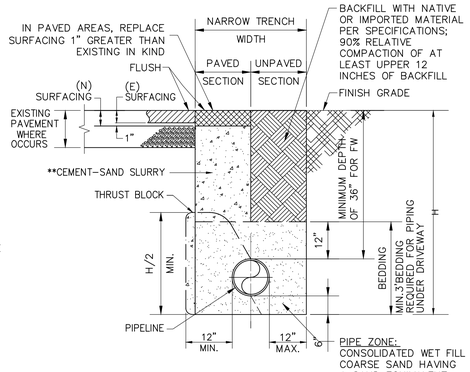
SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE 1
LOOSE SAND	500 PSF	4
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND SIZE OF BEARING AREAS.

BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

NOTES:

1. PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.
2. PIPELINE BEDDING MATERIAL, TRENCH BACKFILL MATERIAL, AND COMPACTION SHALL COMPLY WITH SSPWC.
3. BEDDING MATERIALS CONSISTING OF SAND, GRAVEL, OR CMB SHOULD BE USED TO BACKFILL AROUND UTILITY PIPES TO APPROXIMATELY ONE FOOT ABOVE THE TOP OF THE PIPE. ONSITE SOILS WHICH HAVE A SAND EQUIVALENT (SE) OF 30 OR GREATER CAN ALSO BE USED AS BEDDING MATERIAL. NO MORE THAN 30% OF BACKFILL VOLUME SHOULD BE LARGER THAN 3/4". PRIOR TO PLACINGTHE PIPES, THE PIPE TRENCH SUBGRADE SHOULD BE OBSERVED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER. IN THE LARGEST DIMENSION. IMPORTED BACKFILL SHOULD BE APPROVED BY PROJECT GEOTECHNICAL CONSULTANT PRIOR TO DELIVERY AT THE SITE.
4. IT IS RECOMMENDED THAT UTILITY TENCHES ARE NOT BE OR PLACED PARALLED TO AND BELOW A 1½:1 PLANE PROJECTED DOWN FROM THE BASE OF THE OUTER EDGE OF A CONVENTIONAL FOUNDATION.
5. IF THE EXPOSED SUBGRADE IS LOOSE OR UNSTABLE, THE UNSUITABLE SUBGRADE SOIL MUST BE EXCAVATED AND REPLACED WITH BEDDING MATERIAL. BEDDING MUST BE PLACED UNIFORMLY ON EACH SIDE OF THE PIPE AND MECHANICALLY COMPACTED.
6. FLOODING OR JETTING TO DENSIFY THE BEDDING MATERIALS IS NOT ALLOWED DUE TO THE CLAYEY NATURE OF ONSITE SOILS.
7. THE BACKFILL FOR THE REMAINING PORTION OF THE TRENCH ABOVE THE PIPES SHOULD BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES, MOISTURE-CONDITIONED WITHIN OPTIMUM AND 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND MECHANICALLY COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D1557. THINNER LIFTS MAY BE NECESSARY TO ACHIEVE THE RECOMMENDED LEVEL OF COMPACTION OF THE BACKFILL DUE TO EQUIPMENT LIMITATIONS.
8. THE HIGHER COMPACTION IS REQUIRED FOR FILL MATERIAL THAT HAS LESS THAN FIFTEEN PERCENT (15%) OF THE MATERIAL FINER THAN 0.005MM.
9. TRENCHES IN PAVEMENT AREAS SHOULD BE CAPPED WITH AT LEAST 12 INCHES OF COMPACTED, ON-SITE SOIL SIMILAR TO THAT OF THE ADJOINING SUBGRADE. THE UPPER 12 INCHES OF TRENCH BACKFILL IN AREAS TO BE PAVED SHOULD BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. SPECIAL CARE SHOULD BE TAKEN IN THE CONTROL OF UTILITY TRENCH BACKFILLING IN THE PAVEMENT AREAS.
10. PIPELINE BEDDING MAY BE LEAN CONCRETE CONSISTING OF TWO SACKS OF PORTLAND CEMENT PER CUBIC YARD OF SLURRY IN LEIU OF SAND AS LONG AS SLURRY IS VIBRATED IN PLACE.
11. MINIMUM COVERAGE OF UTILITIES IS 36-INCHES. IF THIS CANNOT BE ATTAINED, CAP WITH 1-SACK CONCRETE SLURRY. IN PAVING AREAS, BACKFILL TRENCHES WITH SLURRY UP TO BOTTOM OF PAVING. IN LANDSCAPE AREAS, SLURRY IS ALLOWED UP TO TWO-FEET BELOW GRADE.
12. PROVIDE METALLIC WARNING TAPE 12-INCHES BELOW GRADE ABOVE UTILITIES.
13. A MINIMUM OF 6-INCH THICK BEDDING MATERIAL SHALL BE PLACED BELOW THE BOTTOM OF UTILITY LINES, ON A FIRM AND UNYIELDING SUBGRADE. THE BEDDING MATERIAL SHALL MEET THE SPECIFICATIONS PROVIDED IN THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK). SAND OR GRAVEL SHALL BE COMPACTED IN ACCORDANCE WITH GREENBOOK SPECIFICATIONS.
14. THE PIPE INVERT SHALL BE UNDERLAIN WITH AT LEAST 6" OF BEDDING MATERIAL CONSISTING OF SELECT SANDY SOILS WITH A SAND EQUIVALENT (SE) OF 30 OR GREATER AS SPECIFIED IN SECTION 306-1.2.1 OF THE GREENBOOK. BEDDING MATERIAL BELOW THE PIPE INVERT SHALL BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.
15. THE PIPE ZONE BACKFILL SHALL EXTEND FROM THE INVERT OF THE PIPE TO A LEAST 6" ABOVE THE PIPE. THIS ZONE SHALL ALSO BE BACKFILLED WITH SANDY MATERIAL SIMILAR TO THE BEDDING AND MECHANICALLY COMPACTED TO 90 PERCENT RELATIVE COMPACTION.
16. BURRIED METAL PIPES SHALL BE WRAPPED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

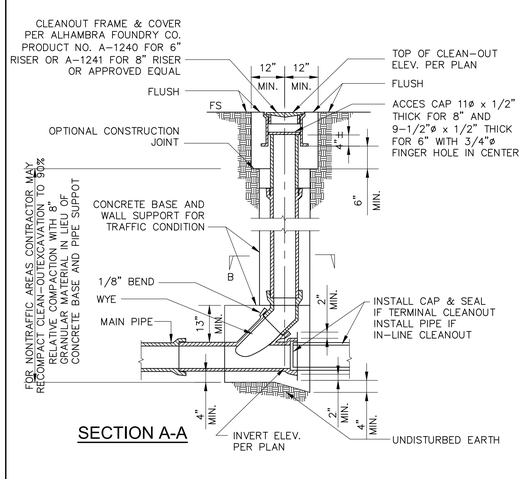


NARROW UNSUPPORTED VERTICAL WALLED TRENCH WIDTH

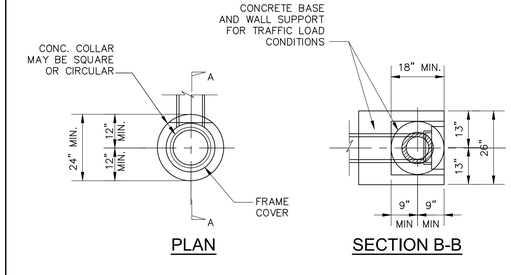
NOMINAL PIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
4	18
6	18
8	24
10	30
12	30
15	30
16	30
18	30
24	30
30	30

** CEMENT-SAND SLURRY = MIN. 2-SACK MIX HAVING A SLUMP NO GREATER THAN 5 INCHES.

5 TRENCH SECTION
SCALE: NOT TO SCALE



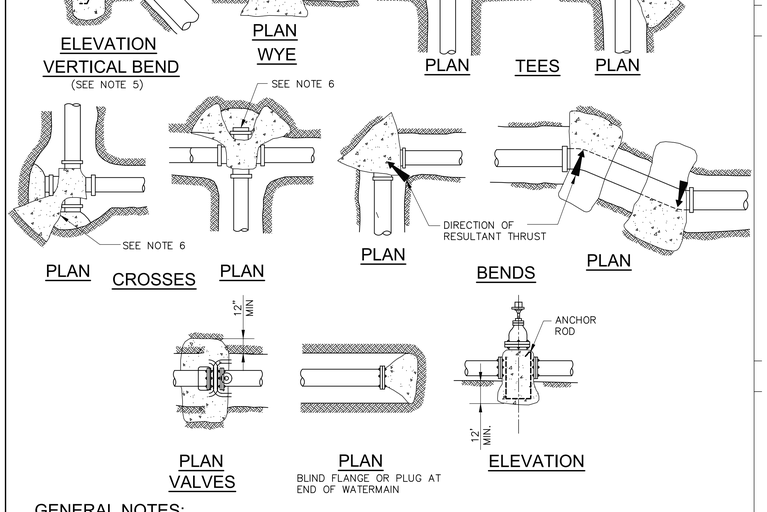
SECTION A-A



PLAN

SECTION B-B

6 STORMDRAIN AND SEWER CLEANOUTS
NOT TO SCALE



GENERAL NOTES:

1. ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 150 PSI. BEARING AREA INCREASE IN PRESSURE.
3. ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
4. ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
5. USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
6. USE 30 POUND FELT TO INSURE COLD JOINT.
7. CONCRETE SHALL NOT COME INTO DIRECT WITH ASBESTOS CEMENT PIPE.
8. FOR PIPE 14" IN DIAMETER OR LARGER ENGINEER IS TO SUBMIT CALCULATIONS.

7 THRUST BLOCK DETAILS
NOT TO SCALE

DSA STAMP

hpi architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA
92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2025 RENEWAL DATE STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

MCA ENGINEERS INC CIVIL & STRUCTURAL
1041 S. Garfield Avenue, Suite #210 Alhambra, CA 91801 Tel. 323.729.6098 Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER No. C36079 Exp. 6/30/24 CIVIL STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED		
#	DATE	DESCRIPTION
1	03/01/2024	REVISION A

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

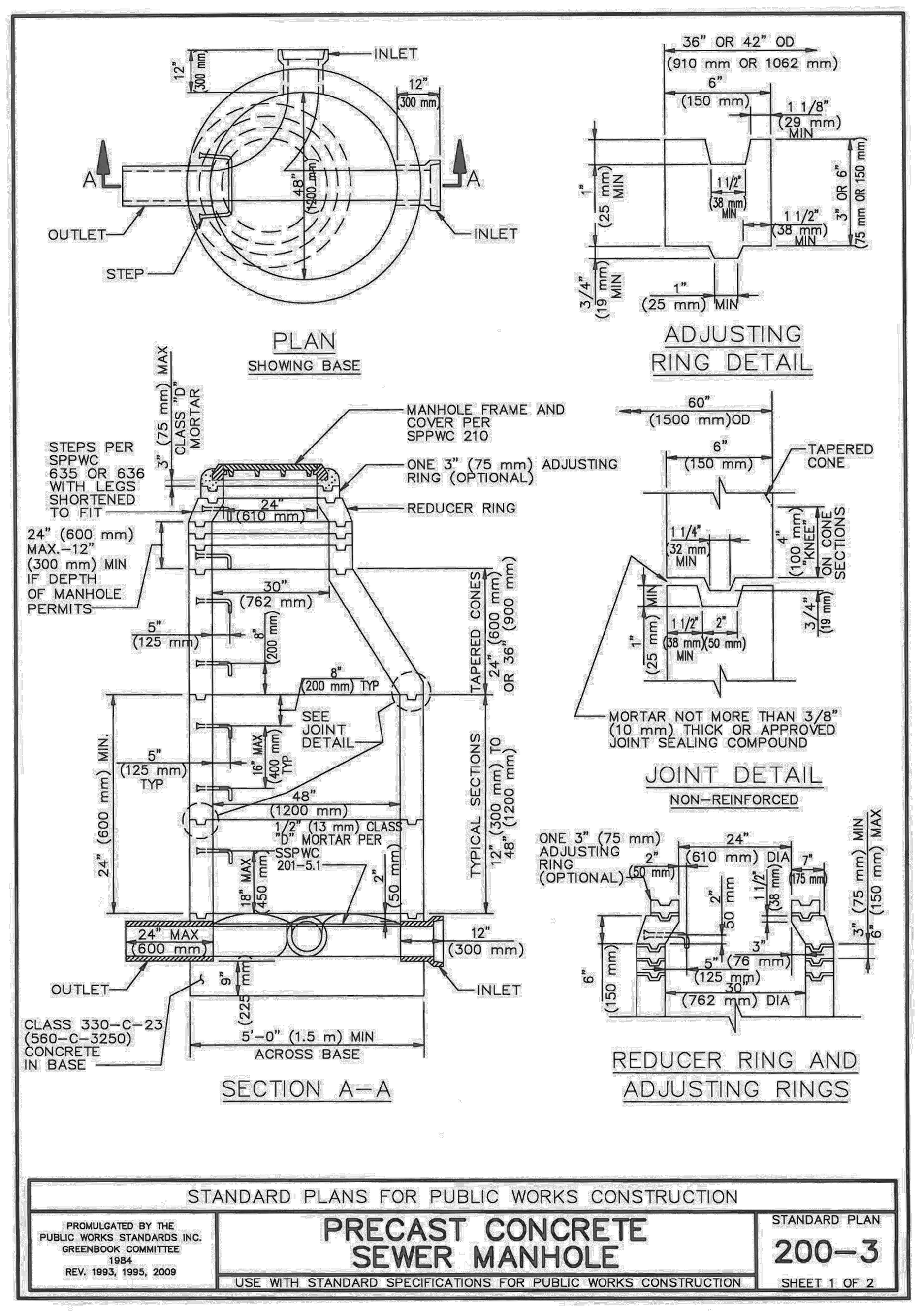
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
MISCELLANEOUS DETAILS

SHEET NUMBER

C-5.0-01

CONSTRUCTION DOCUMENTS

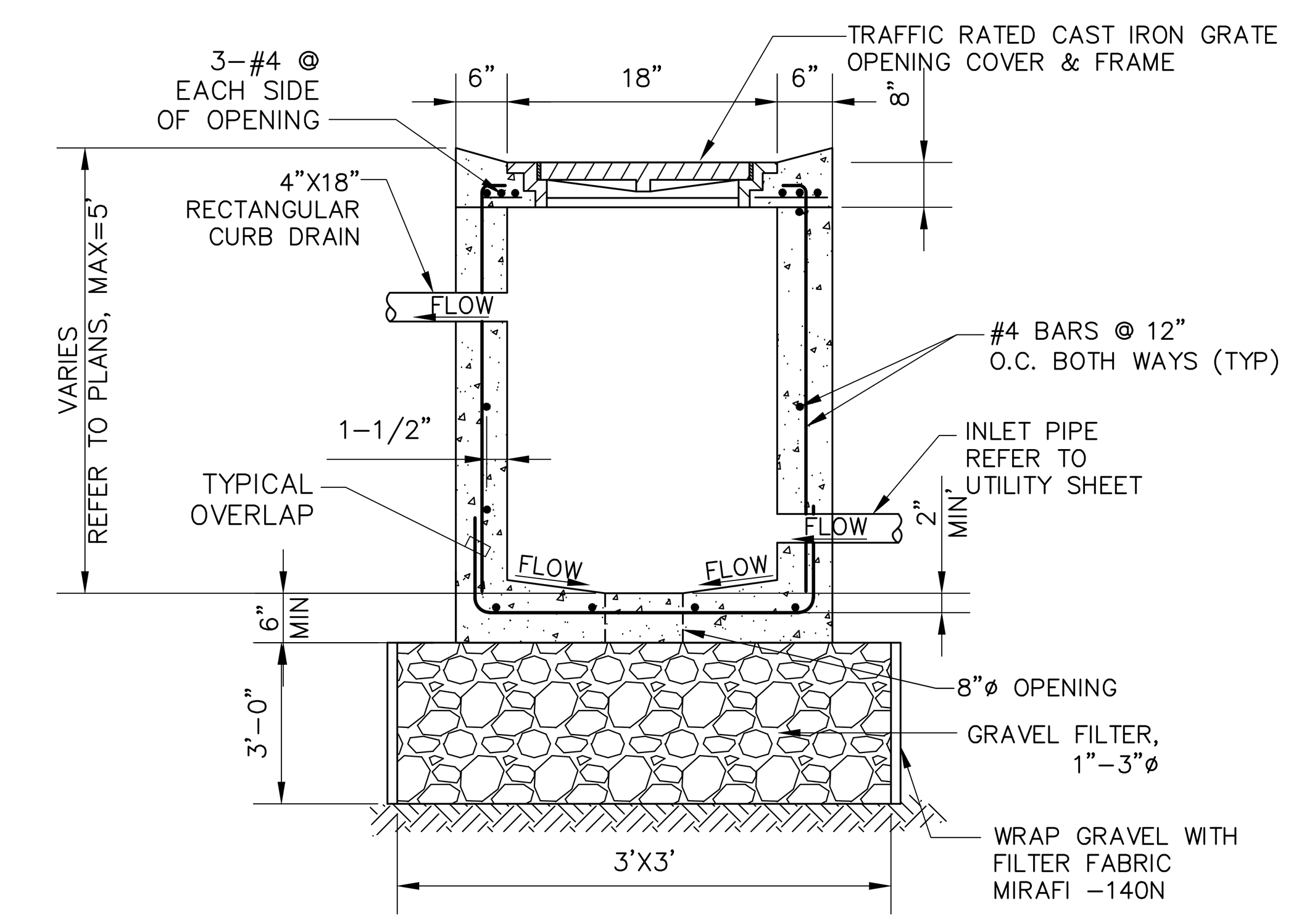


NOTES:

1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C 478. AS AN ALTERNATE CURING METHOD, THE UNITS MAY BE CURED USING SATURATED STEAM FOR A MINIMUM OF 12 HOURS FOLLOWED BY 6 DAYS OF WATER CURING OR MEMBRANE CURING. IF THE UNITS ARE CURED BY THE ALTERNATE METHOD, THEY SHALL NOT BE SHIPPED PRIOR TO 8 DAYS AFTER CASTING NOR UNTIL THE CONCRETE HAS ATTAINED A STRENGTH OF 3500 PSI (25 MPa).
2. MANHOLE STEPS SHALL CONFORM TO SPPWC 635 TYPE 1 OR 3 OR SPPWC 636. THE MANHOLE STEPS SHALL BE UNIFORMLY SPACED AT A MAXIMUM OF 16" (400 mm). THE LOWEST STEP SHALL BE PLACED NOT LESS THAN 8" (200 mm) NOR MORE THAN 18" (450 mm) ABOVE THE SHELF. THE STEPS SHALL PROJECT 5" (125 mm) INSIDE THE MANHOLE.
3. RISER SECTIONS MAY BE REINFORCED OR UNREINFORCED. REINFORCED SECTIONS SHALL BE REINFORCED IN ACCORDANCE WITH ASTM C 478 AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5" (125 mm). UNREINFORCED RISER SECTIONS SHALL HAVE A MINIMUM WALL THICKNESS OF 6" (150 mm).
4. THE 24"x48" (600 mm x 1200 mm) ECCENTRIC CONES MAY BE REINFORCED OR UNREINFORCED. IF REINFORCED, THE WALL THICKNESS SHALL BE NOT LESS THAN 5" (125 mm). IF UNREINFORCED, THE WALL THICKNESS SHALL NOT BE LESS THAN 6" (150 mm).
5. JOINTS SHALL BE TONGUE AND GROOVE. JOINTS FOR REINFORCED STRUCTURES SHALL CONFORM WITH ASTM C 478 SECTION 14.
6. PRECAST UNITS SHALL BE ASSEMBLED USING CLASS "B" MORTAR.
7. IF 30" (762 mm) DIAMETER MANHOLE FRAME AND COVER IS REQUIRED, IT SHALL BE INSTALLED WHERE THE REDUCER RING IS SHOWN IN THE SECTION.
8. FOR REINFORCED PRECAST STRUCTURES, ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 2" (50 mm) OF COVER OVER THE STEEL ON THE INSIDE FACE.
9. THE TOP OPENING OF THE MANHOLE AND THE STEPS SHALL BE PLACED DIRECTLY OVER THE OUTLET OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED ON PLANS.
10. CONCRETE BASE AND STUB WALLS SHALL BE POURED IN ONE OPERATION TO A POINT 2" (50 mm) ABOVE THE INLET AND OUTLET PIPES. ALL PIPES SHALL BE RIGIDLY SUPPORTED BY TEMPORARY PIERS OR OTHER METHODS DURING THE OPERATION. CONCRETE SHALL SET FOR 24 HOURS BEFORE PLACING PRECAST UNITS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
PRECAST CONCRETE SEWER MANHOLE
STANDARD PLAN 200-3
SHEET 2 OF 2

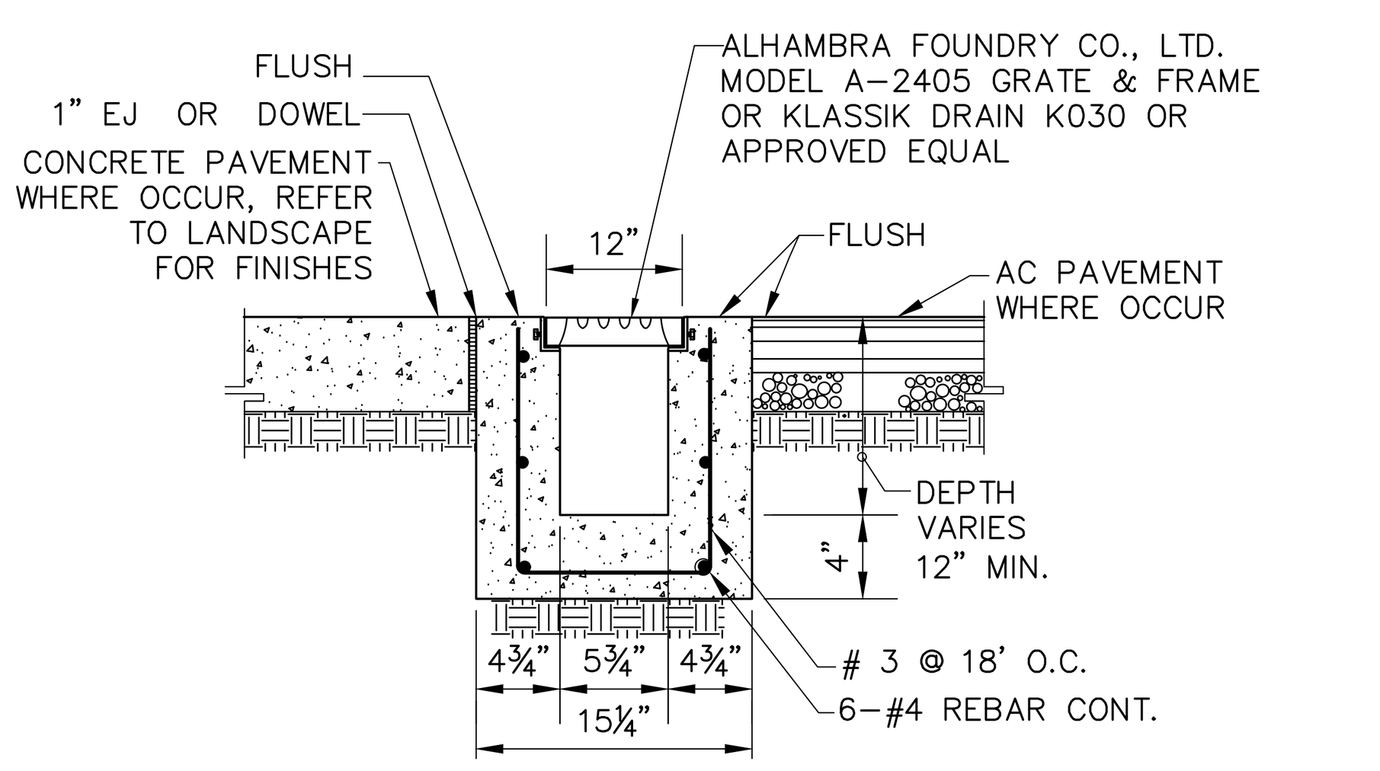
1 SEWER MANHOLE DETAIL
NOT TO SCALE



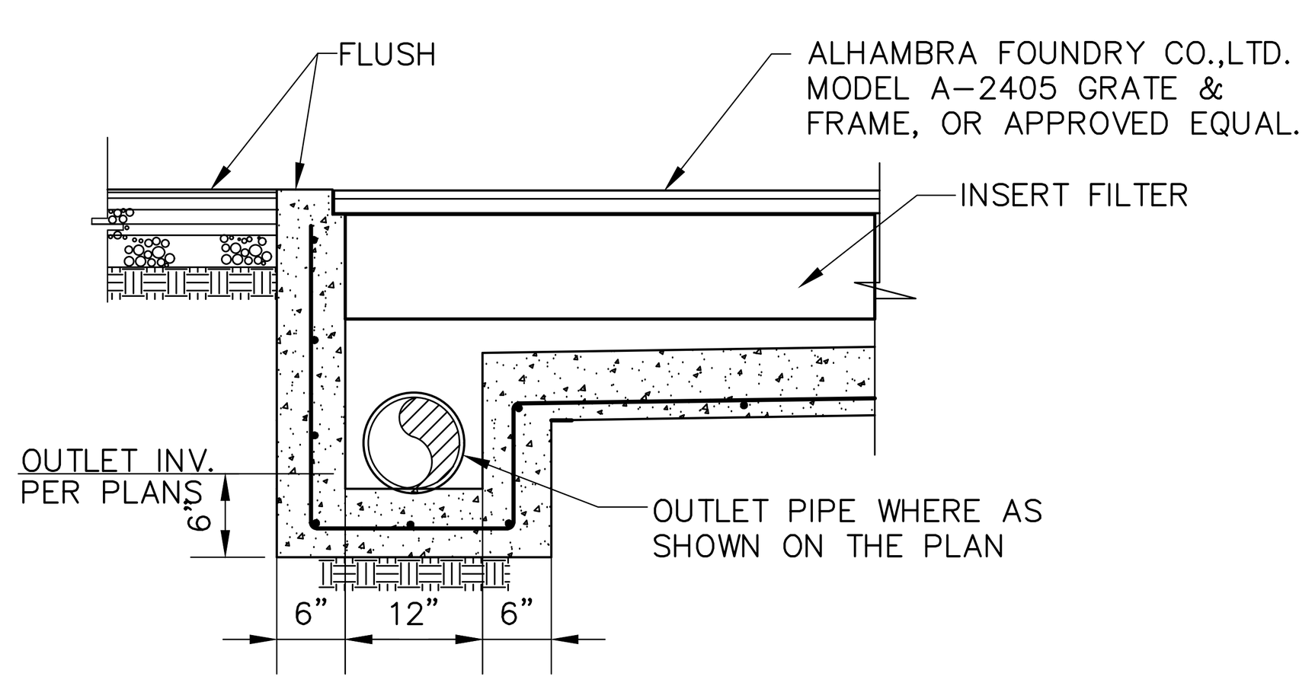
NOTES:

1. USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
3. GRATES SHALL BE OF VANDAL-RESISTANT CONSTRUCTION WITH ½"MAX OPENINGS.
4. FRAME AND GRATE SHALL BE TRAFFIC-RATED WHEN INSTALLED IN PAVED (ASPHALT OR CONCRETE) AREAS.
5. GRATE MUST COMPLY WITH ADA REQUIREMENTS WHERE REQUIRED.
6. PROVIDE 1/2" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF TRAFFIC FLOW.
7. PROVIDE NO DUMPING SYMBOL PER DETAIL 8 ON THIS SHEET.

2 BUBBLER CATCH BASIN DETAIL
NOT TO SCALE



CROSS SECTION

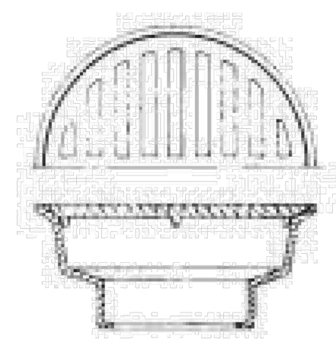


LONGITUDINAL SECTION

NOTES:

1. GRATE MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS, HEEL PROOF, VANDAL RESISTANT AND TRAFFIC RATED.
2. CONTRACTOR CAN ALSO USE PRE-CAST TRENCH DRAINS. SUBMIT MANUFACTURER'S CATALOG AND SHOP DRAWING (IF APPLICABLE) FOR APPROVAL.
3. CONTRACTOR SHALL COORDINATE THE CONCRETE FINISH WITH LANDSCAPE DRAWINGS.

3 TRENCH DRAIN DETAIL
NOT TO SCALE



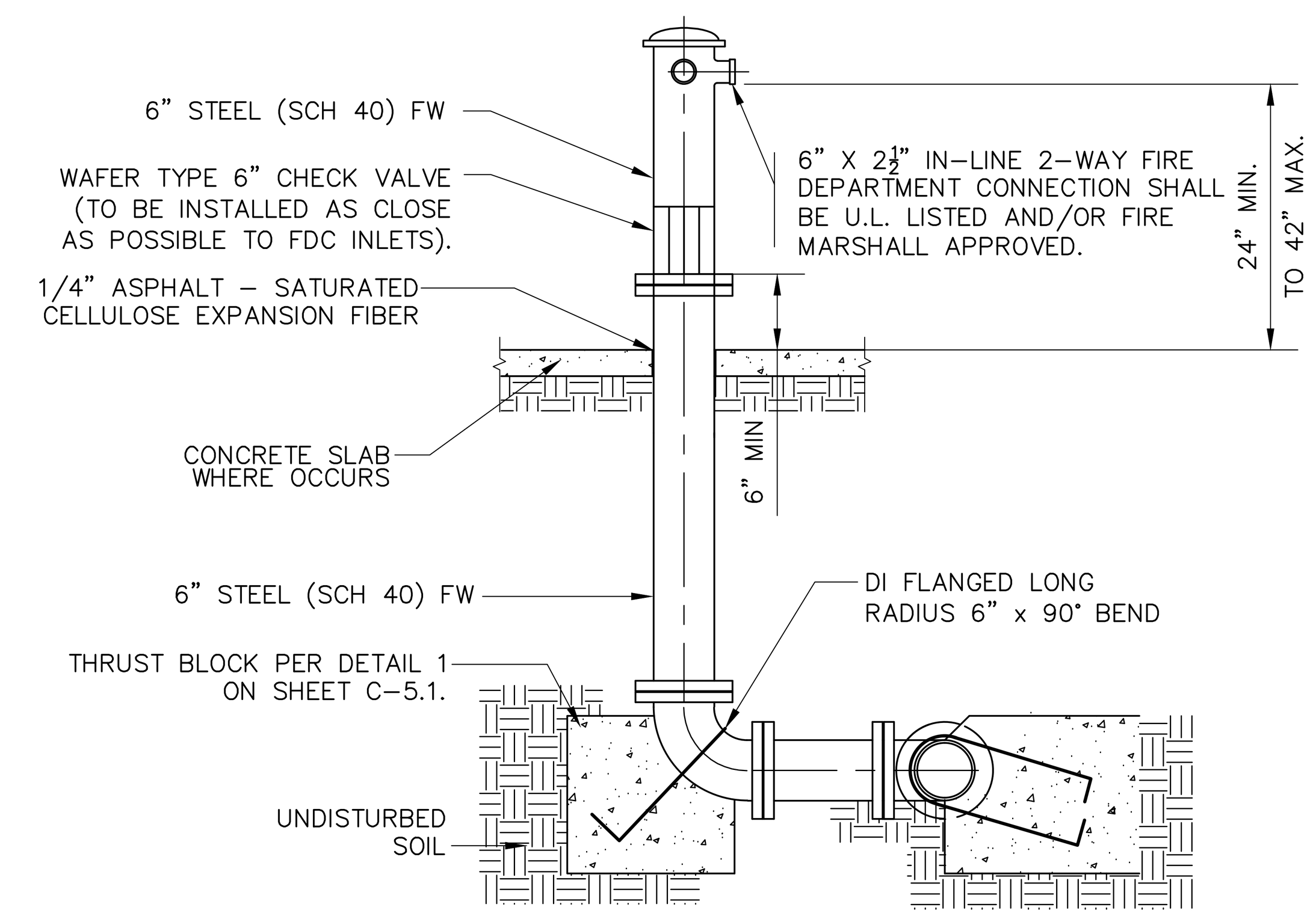
A-338

A-338 — AREA DRAIN
NON-TRAFFIC

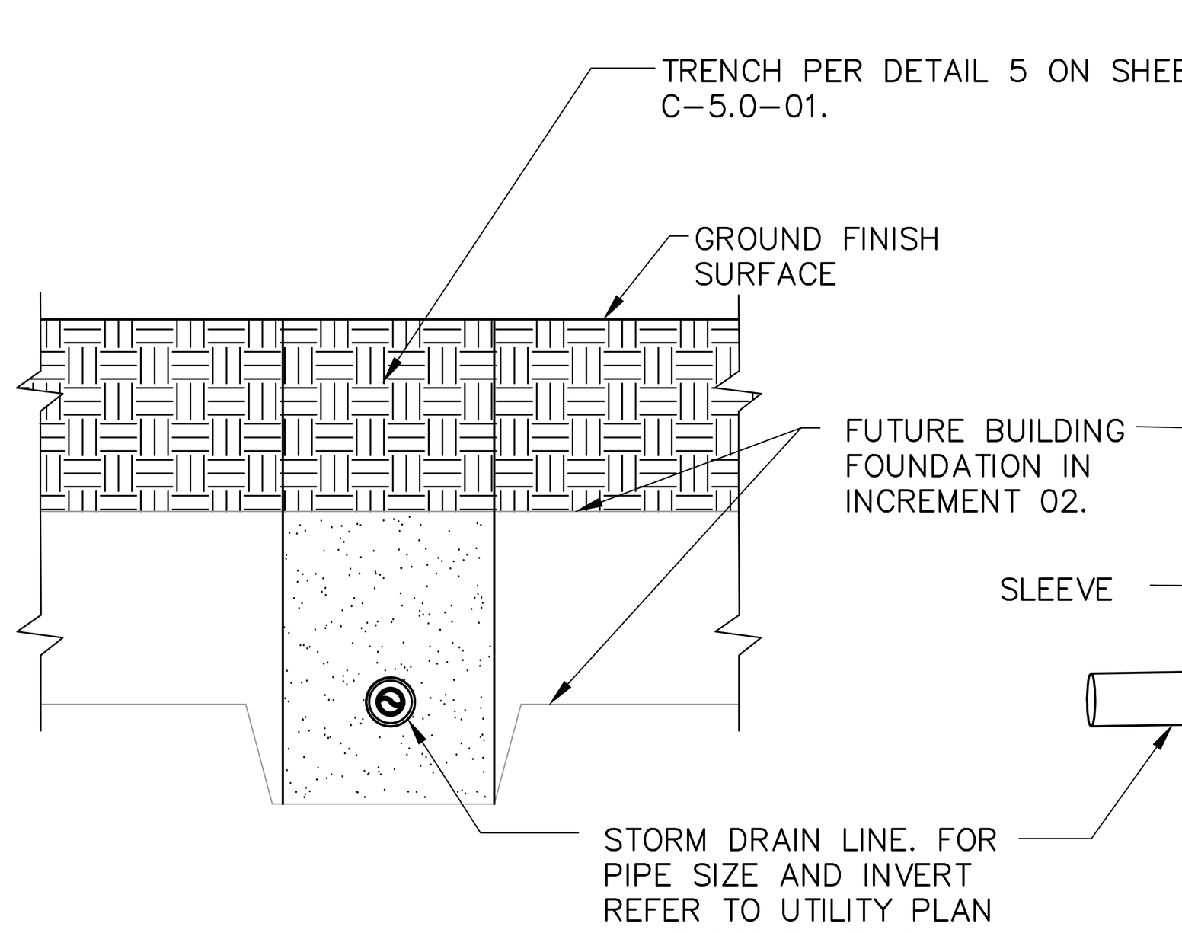
PLATE NUMBER	SIZE OUTLET	TOP	WEIGHT	FINISH
★ A-338-3	3	9	11	Blk. Galvanized or Brass Top
★ A-338-4	4	9	11	Blk. Galvanized or Brass Top

Caulk Outlet Only.

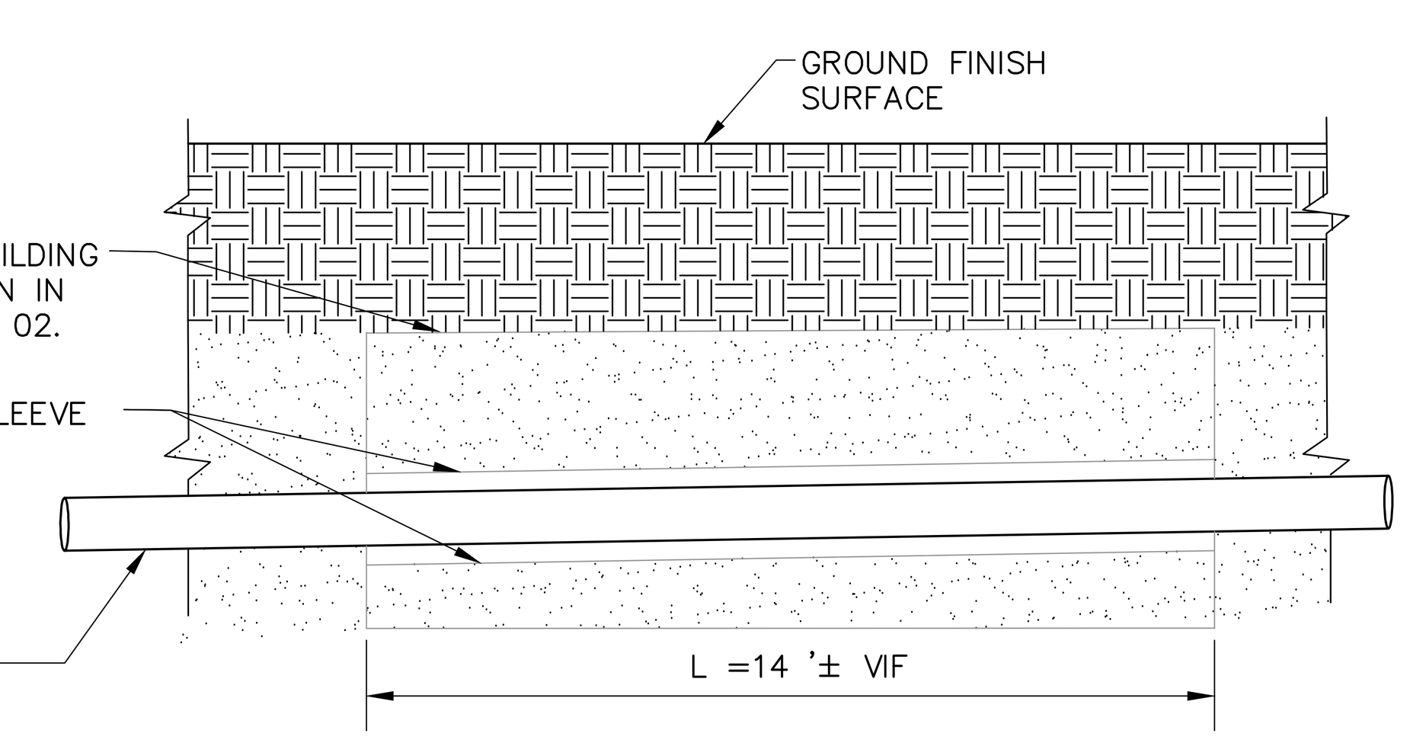
4 AREA DRAIN DETAIL
NOT TO SCALE



5 FIRE DEPARTMENT CONNECTION
NOT TO SCALE



SECTION



PROFILE

6 PIPE/CONDUIT PENETRATION AT FUTURE FOOTING
NOT TO SCALE

DSA STAMP
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123205 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/02/2023

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SEAL
LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

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CIVIL • STRUCTURAL
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Alhambra, CA 91801
Tel. 323.729.6098 Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
VIRGILIO C. AGNANAN
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED		
#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
MISCELLANEOUS DETAILS

SHEET NUMBER
C-5.1-01

CONSTRUCTION DOCUMENTS

Trusted. Tested. Tough.®

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER ENGINEERED PRODUCTS

Section: Z7.00.055
ZM3376
0423
Supersedes
0921

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SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
Tel: (502) 778-2731 • 1 (800) 928-PUMP

Visit our website: zoellerengineered.com

Pivot®, Pivot® Pro, Pivot® Pro+ Selection Guide

NEMA 4X Simplex & Duplex Pump Control Panels, 1-60 BHP

Commercial Duty, Heavy Duty Solids Handling, and Grinder Pumps

Pivot®, 1Ph only, Simplex and Duplex

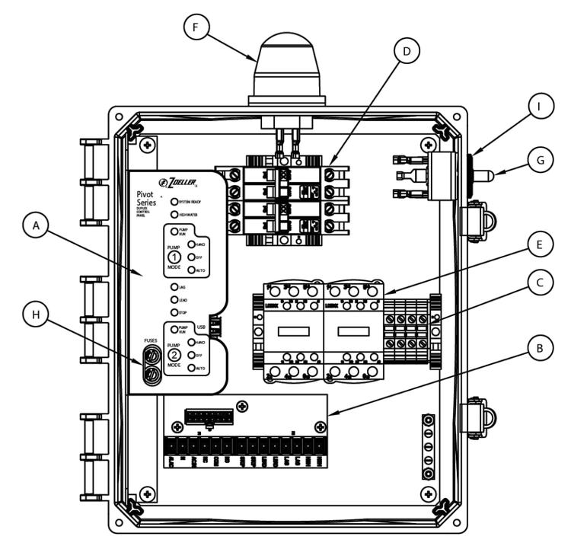
Standard Features:

1. NEMA 4X 12"X10"X6" enclosure with lockable hasp
2. cCSAus labeled. Certified to UL508
3. Input power terminal block
4. Float switch terminal block
5. Ground lug
6. IEC rated motor contactors
7. Control circuit powered by 115vac, 60 hz
8. Alarm circuit can be powered separately from circuit breaker
9. Control and alarm fuses
10. External red globe for alarms. Selectable: solid, flash, alarm based
11. Selectable Audible 95 decibel (at 2' (0.6 m) horn can be set to either auto or latching (Manual Alarm Reset).
12. External alarm test and silence switch
13. User interface buttons and leds
14. Float status indicator LED indicators
15. Float smart logic for pump run priority
16. Pump Run LED indicators
17. Non-simultaneous pump start
18. Pump-run dry contact, normally open
19. Form C auxiliary output dry contact for alarm conditions
20. Smart HAND-OFF-AUTO (HOA).
    - Selection: Service Off (alarm active), Permanent Off (alarm inactive)
    - Simplex Mode, Duplex Mode (simultaneous pump run enabled, Alternating Mode (simultaneous pump run not enabled)
    - Selection: 3 or 4 float, SLLH or SLHL float order
21. Alarms:
    - High water
    - High voltage
    - Disabled alarm circuit
    - Float fault
    - Continuous pump run
    - Service off timeout
    - Failed contactor
22. USB access to:
    - Elapsed Time Meter
    - Event Counter
23. Configurable settings:

• Simplex or duplex mode	USB only
• 3 or 4 floats	USB only
• Float order SLLH, SLHL	USB and PCB Pin 5
• Smart or relay logic	USB and PCB Pin 1
• Alarm based, solid, or blinking globe	USB and PCB Pin 4
• Active or latching alarm	USB only
• Continuous run timer	USB and PCB Pin 2
• HOA hand timer	USB and PCB Pin 3
• HOA service off alarm timer	USB and PCB Pin 3

24. Limited warranty: 5 years

*Pivot® panels are only offered with standard features above. For additional features, upgrade to Pivot® Pro. For any other options not shown, please refer to Pivot (R) Pro Series.



Pivot® 1Ph Duplex

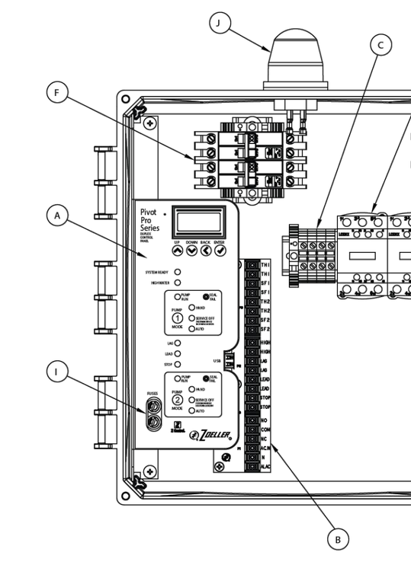
A) User Interface
B) Terminal Board
C) Pump Power Terminals (TB1)
D) Pump Circuits Breaker(s)
E) Motor Contactors
F) Globe
G) Test/Silence/Reset Switch
H) Fuses
I) Buzzer

Pivot® Pro, 1Ph and 3Ph

Includes all Standard PIVOT(R) features shown above with these additional features:

1. Multi-tap transformer (3ph)
2. Pump circuit breaker (1Ph and 3Ph) or overload (3ph)
3. User interface with LCD screen/menu, buttons, LEDs, & seal fail adjustment screw
4. Seal fail indicator and adjustment, horn/globe/display latching
5. Thermal cutout indicator, horn/globe/display latching
6. Dry Contact alarms additionally includes Seal/Thermal conditions
7. Alternator 1-2 selector switch (lead/lag selector switch)
8. Z Control® enabled for remote monitoring/control and alert notifications (purchase of gateway required)
9. Additional alarms:
    - Seal fail (moisture) alarm, adjustable sensitivity
    - Thermal indicator trip alarm
    - Tripped overload (3ph only)

Pivot Pro Panels are only offered with standard features of Pivot and those listed above. For additional options, please see Pivot Pro+. For any other options not shown, please refer to Pivot (R) Pro+ Series.



Pivot® Pro 1Ph Duplex

A) User Interface
B) Terminal Board
C) Pump Power Terminals (TB1)
D) Transformer (3PH Only)
E) Overload(s) (3PH Only)
F) Circuit Breaker(s) (1PH Only)
G) Motor Contactor(s)
H) Test/Silence/Reset Switch
I) Fuses
J) Globe
K) Alarm Buzzer

Pivot® Pro+, 1Ph and 3Ph

Standard features include everything on Pivot® Pro models. Pivot® Pro+ models are built in a larger enclosure to allow selection of options below.

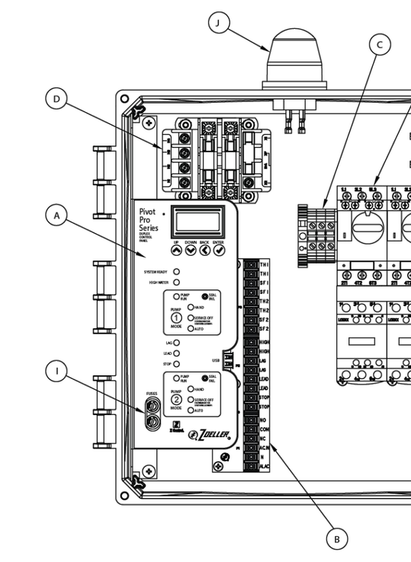
Now Available: Pivot Pro+ = Start Kit Models

Future options for Pivot® Pro+:

1. Reversing circuits for select model pumps)
2. Anti-condensation heater
3. Generator receptacle
4. Intrinsically safe circuit
5. Time dose

The following options require a custom panel order:

1. Inner door
2. Main disconnect
3. Outer door mounted indicators and switches
4. Variable Frequency Drives (VFD)
5. Lightning arrestor
6. Stainless steel enclosure



Pivot® Pro 3Ph Duplex

Standard Solids Handling Pumps 62 HD Series, 5-20 BHP						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
E6220	230	1	27.5	24-32	217R4-0001	227R4-0001
J6220	200	3	17.5	17-23	114H4-0001	124H4-0001
F6220	230	3	15.2	13-18	114G4-0001	124G4-0001
G6220	460	3	7.6	6-10	114E4-0001	124E4-0001
BA6220	575	3	6.1	6-10	116E4-0001	126E4-0001
E6221	230	1	36.7	30-40	~~217S4-0001~~	227S4-0001
J6221	200	3	25	24-32	114R4-0001	124R4-0001
F6221	230	3	22	20-25	114Q4-0001	124Q4-0001
G6221	460	3	11	9-14	114F4-0001	124F4-0001
BA6221	575	3	9	6-10	116E4-0001	126E4-0001
J6222	200	3	32	30-40	114S4-0001	124S4-0001
F6222	230	3	28	24-32	114R4-0001	124R4-0001
G6222	460	3	14	13-18	114G4-0001	124G4-0001
BA6222	575	3	11	9-14	116F4-0001	126F4-0001
J6223	200	3	48.3	37-50	114T4-0001	124T4-0001
F6223	230	3	41.7	37-50	114T4-0001	124T4-0001
G6223	460	3	20.9	20-25	114Q4-0001	124Q4-0001
BA6223	575	3	16.4	13-18	116G4-0001	126G4-0001
J6224	200	3	59.4	48-65	114U4-0001	124U4-0001
F6224	230	3	54	48-65	114U4-0001	124U4-0001
G6224	460	3	27	24-32	114R4-0001	124R4-0001
BA6224	575	3	22	20-25	116Q4-0001	126Q4-0001

Standard Solids Handling Pumps 64 HD Series						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
F6424	230	3	68		Call Factory	Call Factory
G6424	460	3	34	30-40	114S4-0001	124S4-0001
BA6424	575	3	27	24-32	116R4-0001	126R4-0001
F6425	230	3	80		Call Factory	Call Factory
G6425	460	3	40	37-50	114T4-0001	124T4-0001
BA6425	575	3	32	30-40	116S4-0001	126S4-0001
G6426	460	3	52	48-65	114U4-0001	124U4-0001
BA6426	575	3	41	37-50	116T4-0001	126T4-0001
G6427	460	3	62	48-65	114U4-0001	124U4-0001
BA6427	575	3	52	48-65	116U4-0001	126U4-0001
G6428	460	3	75		Call Factory	Call Factory
BA6428	575	3	62	48-65	116U4-0001	126U4-0001

Trusted. Tested. Tough.™

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER PUMP COMPANY

SECTION: 2.50.090
FM0526
0916
Supersedes
0713

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
TEL: (502) 778-2731 • 1 (800) 928-PUMP • FAX: (502) 774-3624

Visit our web site: zoellerpumps.com

COMPARE THESE FEATURES

- Float is constructed of durable PVC/polypropylene encasing variable level switch
- Standard mechanical variable level control switches are rated for 115/230 V, 5 Amps
- Low current mechanical variable level control switches are rated for 125 VAC/30 VDC, 0.1 Amps
- 18/2 Type SJOW CPE cord standard
- Cords are available in 15-25-35-50 foot lengths
- Temperature rating of 140°F (60°C)
- Approximately 1.5" liquid level differential in switching action

Variable Level Control Switch is normally open when hanging vertically above liquid level. Switch closes when it reaches a few degrees above the horizontal position.

APPLICATIONS

- Switch for simplex or duplex pump control and high level alarm on electrical alternating control panel systems for dewatering, effluent and sewage applications.
- Switch for APak® (use low current models)
- High level alarm switch

ADJUSTABLE WEIGHT: (P/N 10-0689) provides an accurate pivot point for suspended float switches.

- Gripper teeth on clip and weight channel securely lock float cable into place.
- Cable weight can be adjusted without the use of tools.

HOUSING: 1lb 12oz. (0.8 kg) 2.8" x 3.3" (7.1 cm x 8.4 cm)
Impact-resistant & non-corrodible, PVC housing for liquids up to 140° F (60° C)
CLIP: injection-molded acetal plastic
WIRE/CABLE ACCOMODATED: SJOW, SJTW, 18/2, 18/3, 16/3, 14/2, 14/3
SHIP WEIGHT: 2 lbs. (32 oz)

VARIABLE LEVEL CONTROL SWITCHES

ADJUSTABLE WEIGHT TYPE

May not be exactly as pictured. **See back for application drawings.**

FLOAT SWITCHES			
Mechanical		Cord Length	Mounting Method
Standard P/N*	Low Current P/N**		
10-0743	10-2060	15	Clamp
10-0744	10-2061	20	Clamp
10-1877	10-2062	25	Clamp
10-1878	10-2063	35	Clamp
10-1879	10-2064	50	Clamp
10-1880	10-2065	15	Adjustable Weight
10-1881	10-2066	25	Adjustable Weight
10-1882	10-2067	35	Adjustable Weight
10-1883	~~10-2068~~	50	Adjustable Weight

*** Do not use with intrinsically safe control systems.**
**** For use with intrinsically safe control systems only.**

Your Peace of Mind is Our Top Priority®

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER PUMP COMPANY
Zoeller Family of Water Solutions™

SECTION: 2.50.110
FM1936
0514
Supersedes
0603

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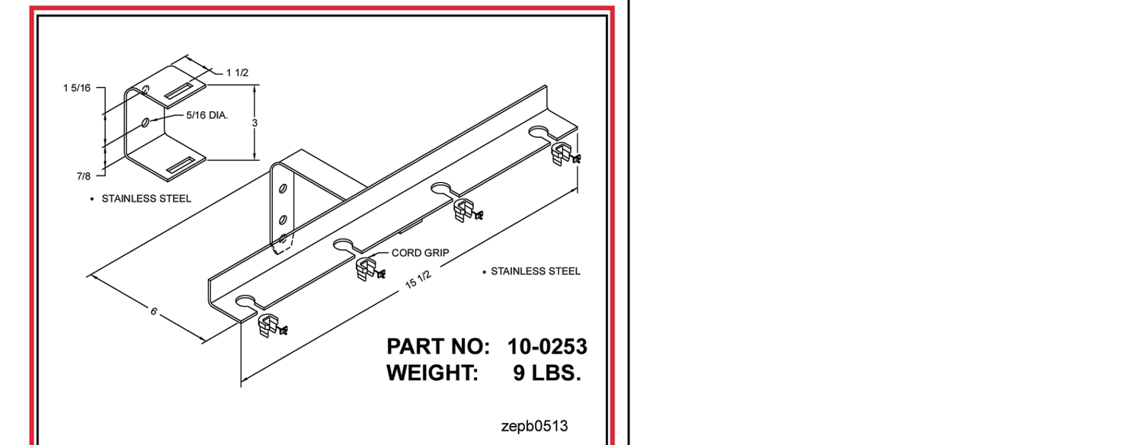
Submersible Wastewater Pump Association SWPA MEMBER

DESIGNED • MACHINED • ASSEMBLED IN THE USA

FLOAT SWITCH BRACKETS

(For Use with Weighted Floats)

Also see FM0526 for Float Tree Assemblies for floats that use clamp type hangers.



PART NO: 10-0253
WEIGHT: 9 LBS.

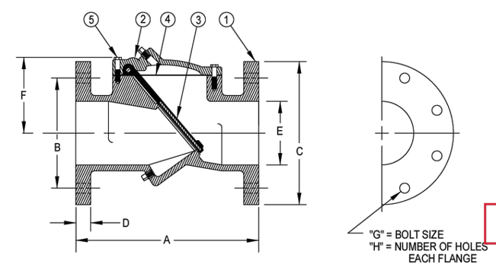
zepb0513

2"- 8" FLANGED CHECK VALVES

Features:

- Heavy duty ductile iron construction
- Angled seal for non-slam closure
- Non-clog design
- Reinforced disc
- Drip tight seating
- Rated up to 250 PSIG
- Designed for both horizontal and vertical usage
- Optional backflow actuator and mechanical indicator

PART NUMBER	PART NAME	MATERIAL
1	Body	Ductile iron ASTM A536, Grade 65-45-12
2	Cover	Ductile iron ASTM A536, Grade 65-45-12
3	Disc	Buna-N w/ steel and nylon reinforcement
4	Gasket	Compressed nonasbestos fiber
5	Cover Bolt	Alloy steel SAE Grade 5



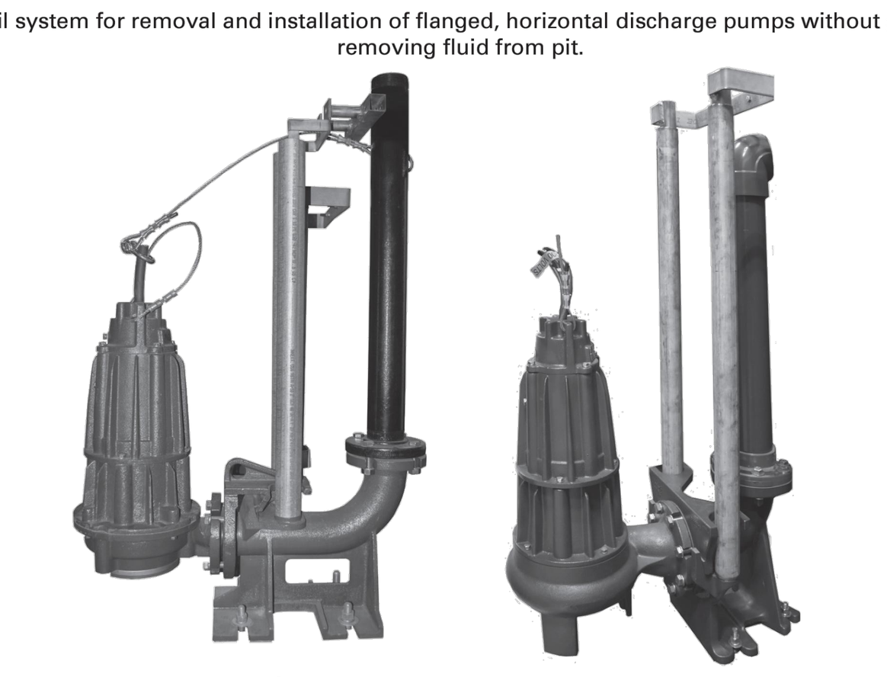
ZEPA0520

PART NUMBER	VALVE SIZE	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	WEIGHT
6030-0212	2"	8	4-3/4	6	11-16	2	3-3/8	5/8	4	26 lbs.
6030-0197	2-1/2"	8-1/2	5-1/2	7	11/16	2-1/2	3-3/8	5/8	4	32 lbs.
6030-0202	3"	9-1/2	6	7-1/2	3/4	3	5-1/8	5/8	4	37 lbs.
6030-0203	4"	11-1/2	7-1/2	9	15/16	4	5-3/4	5/8	8	63 lbs.
6030-0180	6"	15	9-1/2	11	1	6	6-7/8	3/4	8	100 lbs.
6030-0190	8"	19-1/2	11-3/4	13-1/2	1-1/8	8	8-3/8	3/4	8	200 lbs.

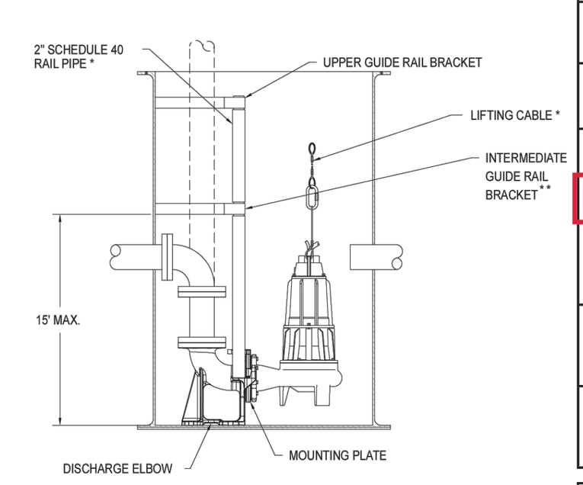
FLANGED RAIL SYSTEMS (2-1/2" TO 6" Discharge)

FIELD ASSEMBLED

Guide rail system for removal and installation of flanged, horizontal discharge pumps without getting in or removing fluid from pit.



2-1/2" & 3" Horizontal Flanged   4" System



SK3419

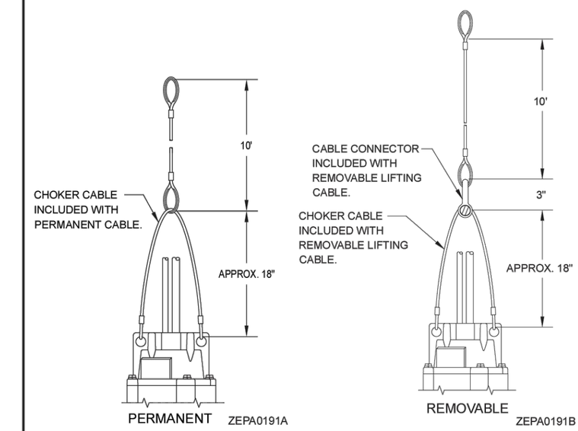
SPECIFICATIONS				
Part Number	Description	Pump Discharge	Rail System Discharge	Guide Rails*
39-0094	2-1/2" / 3" guide rail system SS	2-1/2" or 3" horizontal flange	3" Flange	2" SS or galv.
39-0154	4" guide rail system SS flange	4" horizontal	4" Flange	2" SS or galv.
39-0185	6" guide rail system SS flange	6" horizontal	6" Flange	2" SS or galv.
39-0095	2-1/2" / 3" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	2-1/2" or 3" horizontal flange	3" Flange	2" SS or galv.
39-0155	4" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	4" horizontal flange	4" Flange	2" SS or galv.
39-0190	6" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	6" horizontal flange	6" Flange	2" SS or galv.

ACCESSORIES - Intermediate rail brackets			
Part Number	Pump Discharge	Discharge Pipe	Discharge Pipe Description
39-0096	2-1/2" / 3"	2-1/2" / 3"	PVC, Stainless Steel, Galvanized
6039-0014	4"	4"	PVC, Stainless Steel, Galvanized
39-0187	4"	4"	Ductile Iron
39-0188	4"	6"	Ductile Iron
6039-0021	6"	6"	PVC, Stainless Steel, Galvanized

* Not included
** One intermediate guide rail bracket is required for every
☐20 ft. for 3" system or
☐15 ft. for 4" system, of basin depth. See chart for part number.

PUMP LIFTING CABLES

1/4" Lifting Cables for pump models: 1-20 BHP Solids Handling Models 3-15 HP Grinder Models



P/N	Description	Material	Wt. Lbs.
6039-0026	Choker Cable	Stainless Steel	1
6039-0027	Choker Cable	Galvanized Steel	1
6039-0028	Permanent Cable - 10'	Stainless Steel	4
6039-0029	Permanent Cable - 10'	Galvanized Steel	4
6039-0030	Removable Cable - 10'	Stainless Steel	5
6039-0031	Removable Cable - 10'	Galvanized Steel	5
6039-0032	Permanent Cable - 15'	Stainless Steel	6
6039-0062	Permanent Cable - 20'	Stainless Steel	7
6039-0061	Permanent Cable - 25'	Stainless Steel	8
6039-0068	Permanent Cable - 30'	Stainless Steel	9
6039-0067	Removable Cable - 15'	Stainless Steel	7
6039-0039	Removable Cable - 20'	Stainless Steel	8
6039-0036	Removable Cable - 25'	Stainless Steel	9

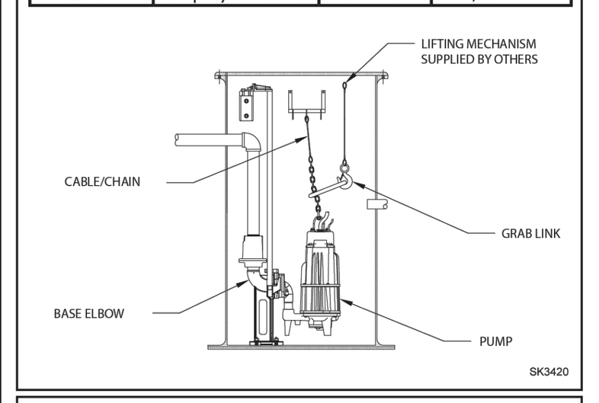
3/8" removable lifting cable: 25-60 HP 64 HD and X64 HD pumps

P/N	Description	Material	Wt. Lbs.
6039-0094	16' Cable w/ zinc plates shackle	Stainless Steel	5
6039-0105	20' Cable w/ zinc plates shackle	Stainless Steel	5
6039-0098	25' Cable w/ zinc plates shackle	Stainless Steel	6
6039-0097	30' Cable w/ zinc plates shackle	Stainless Steel	9
6039-0100	50' Cable w/ zinc plates shackle	Stainless Steel	16
* Used with a Rigid Lifting Bail			

1/8" Stainless steel lifiting for pump models: commercial duty and 1-2 HP grinders

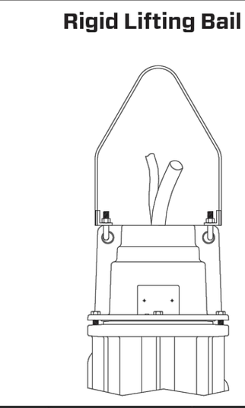
Part Number	Length
39-0031	8'
39-0032	12'
39-0033	16'
39-0034	20'
39-0035	24'

316 SS Single Leg With Cable & Shackle			
P/N	Chain Length	Chain Size	Lifting Weight
6039-0115	20'	1/4"	1,375 lbs.
6039-0116	25'		
6039-0117	30'		
6039-0118	35'		
6039-0119	Grip Eye Bracket	1/4" - 1/2"	7,300 lbs.



SK3420

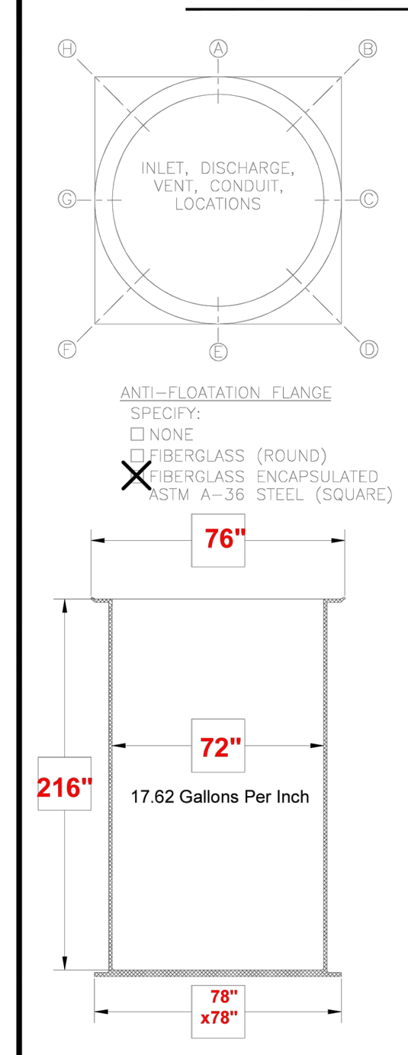
Rigid Lifting Bail



ZEPA0597

PUMP SERIES	P/N	Material	Wt. Lbs.
61 HD & X61 HD	39-0175	Stainless Steel	4
62 HD & X62 HD	39-0175	Stainless Steel	4
71 & X71	39-0175	Stainless Steel	4
64 HD	6039-0042	Stainless Steel	5
X64 HD, 25 - 40 HP	39-0175	Stainless Steel	4
X64 HD, 50 - 60HP	39-0176	Stainless Steel	5

FIBERGLASS BASIN SPEC SHEET



Ⓐ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓑ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓒ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓓ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓔ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓕ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓖ	SIZE ____	TYPE ____	TOP TO ℄ ____
Ⓗ	SIZE ____	TYPE ____	TOP TO ℄ ____

ANTI-FLOATATION FLANGE
SPECIFY:
☐ NONE
☐ FIBERGLASS (ROUND)
☒ FIBERGLASS ENCAPSULATED ASTM A-36 STEEL (SQUARE)

FIBERGLASS BASIN SHORT SPECIFICATION

The resins used shall be a commercial grade polyester and shall be evaluated as a laminate by test or determined by previous service to be acceptable for the intended environment.

The reinforcing material shall be a commercial grade of glass fiber (continuous strand, chopped-strand, continuous mat and/or noncontinuous mat) having a coupling agent which will provide a suitable bond between the glass reinforcement material and resin.

The FRP laminate wall thickness shall vary with the wet well height to provide the aggregate strength necessary to meet the tensile and flexural physical properties requirements. The wet well FRP wall laminate must be designed to withstand wall collapse or buckling based on a hydrostatic loading of 62.4 lbs. per cu. ft.; a saturated soil weight of 120 lbs. per cu. ft.; a soil modulus of 700 lbs. per sq. ft.; and, the pipe stiffness values as specified in ASTM D3753. The wet well FRP laminate must be constructed to withstand or exceed two times the assumed loading on any depth of the wet well.

The finished FRP laminate will have a Barcol hardness of at least 90% of the resin manufacturer's specified hardness for the fully cured resin. The Barcol hardness shall be the same for both interior and exterior surfaces.

The wet well top flange shall have an outside diameter at least 4.0 inches greater than the inside diameter of the wet well. A four or six hole pattern shall accommodate the mounting of a cover with at least 0.25 inches in diameter 300 series stainless steel fasteners. Noncorroding stainless steel threaded inserts shall be fully encapsulated with noncontinuous mat or chopped-strand glass fiber reinforcement. The inserts shall have an offset tab to prevent stripping or spinning out when removing and reinserting cover fasteners.

PUMP MOUNTING STUDS
SPECIFY:
☐ NONE
☐ SIMPLEX
☒ DUPLEX

PUMP INFORMATION
MFR: n/a
TYPE:
MODEL:
QDC:

TOPP INDUSTRIES INCORPORATED

BASIN SPEC. SHEET Reference: FB72X126F	Scale: None Drawn By: RM Appv'd By: . Date: 06/26/03	This print is and contains confidential proprietary information owned exclusively by TOPP INDUSTRIES, INC. It is furnished on a strictly confidential basis. This restriction includes, but is not limited to the condition that this print will not only be used as a record or to identify or inspect parts or for other information purposes and will not be used to manufacture or procure the manufacture of the items shown in this print by any other source than TOPP INDUSTRIES, INC.	Revisions ① First Released 06/27/03
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Newport Beach, CA
92663
o: 949.675.6442

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AMMAR NAJI SARSAM
C-30902
12/31/2025
RENEWAL DATE
STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

VCA ENGINEERS, INC
CIVIL • STRUCTURAL
1041 S. Garfield Avenue, Suite #210
Alhambra, CA 91801
Tel: 323.729.6098 Fax: 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
No. C63079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED		
#	DATE	DESCRIPTION
A	03/01/2024	REVISION A

PROJECT IDENTIFICATION

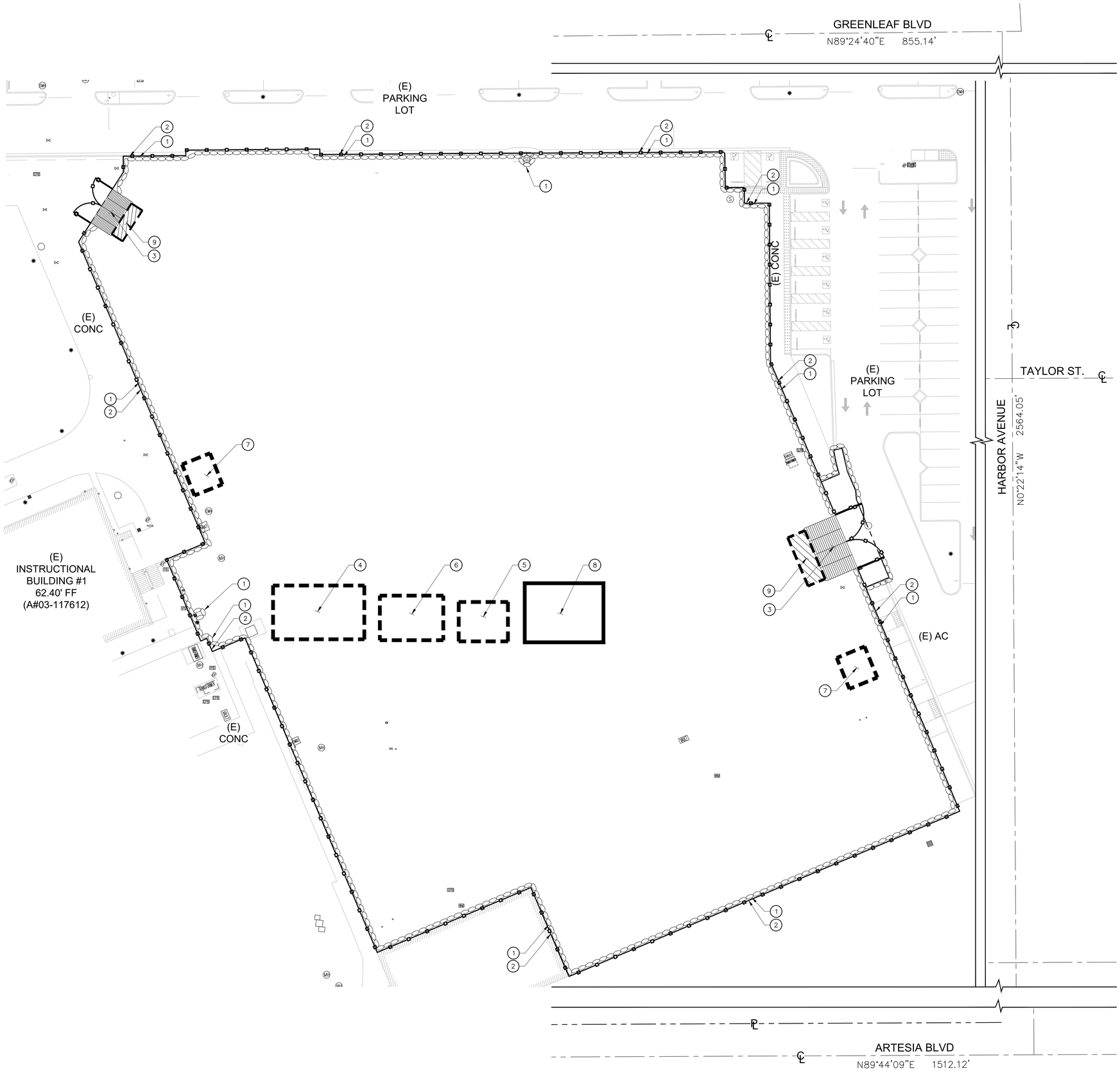
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
MISCELLANEOUS DETAILS

SHEET NUMBER
C-5.2-01

CONSTRUCTION DOCUMENTS



CONSTRUCTION NOTES:

1. INSTALL GRAVEL BAGS AND MAINTAIN THROUGHOUT THE ENTIRETY OF THE PROJECT. REFER TO DETAIL 2 ON SHEET C-6.1-01.
2. CONSTRUCTION FENCE PER DETAIL 4 ON SHEET C-6.1-01.
3. STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 9 AND DETAIL 3 ON SHEET C-6.1-01.
4. PROPOSED AREA FOR EQUIPMENT STAGING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CPM.
5. PROPOSED AREA FOR FUELING/OILING. CONTRACTOR TO VERIFY ACTUAL AREA NEEDED AND COORDINATE WITH THE CPM. REFER TO DETAIL 8 ON SHEET C-6.1-01.
6. PROPOSED AREA FOR LOADING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CPM.
7. PROPOSED AREA FOR TEMPORARY TOILETS. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CPM.
8. PROPOSED AREA FOR VEHICLE AND EQUIPMENT CLEANING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CPM. REFER TO DETAIL 5 ON SHEET C-6.1-01.
9. TIRE WASH PER DETAIL 7 ON SHEET C-6.1-01.

LEGEND:

GRAVEL BAG

CONSTRUCTION PERIMETER 8' HIGH FENCE AND GATE WITH VISUAL BARRIER

SHEET NOTES:

1. LOCATION FOR ANY DESIGNATED STOCKPILES SHALL BE COORDINATED AND DETERMINED BY THE CONTRACTOR ON-SITE. CONTRACTOR SHALL APPLY ALL APPLICABLE BMP'S TO PROTECT THE STOCKPILE AS OUTLINED IN DETAIL 6 ON SHEET C-6.1-01.
2. INSTALL 2" OF TEMPORARY GRAVEL ON ALL ON-SITE CONSTRUCTION ROADWAYS TO STABILIZED AND CONTROL EROSION.
3. CONTRACTOR SHALL MONITOR THE CONSTRUCTION SITE TO CLEAN AND SWEEP MATERIALS TRACKED OFF SITE.
4. ALL BMP'S, SILT FENCES, ETC.. SHALL BE MONITORED AND MAINTAINED BY THE NTP1 CONTRACTOR FOR THE ENTIRE DURATION OF THE CONTRACT.
5. CONTRACTOR SHALL MONITOR WASTEWATER DISCHARGE (INCLUDING STORM RUN OFF) TO ENSURE IT MEETS STANDARDS SET BY APPROPRIATE LAWS, CODES, REGULATIONS, ORDINANCES AND PERMITS. PROVIDE A SETTLING BASIN AND OIL SEPARATOR PRIOR TO ITS DISCHARGE TO CITY OR COUNTRY SEWERS. PROVIDE A WATER SAMPLING STATION DOWNSTREAM OF BASIN FOR MONITORING OF WASTE WATER. DISPOSE OF WASTEWATER IN CLOSED CONDUITS SO AS NOT TO DAMAGE PUBLIC OR PRIVATE PROPERTY NOR CREATE A NUISANCE OR HEALTH HAZARD.
6. CONTRACTOR SHALL NOT DISCHARGE POLLUTANTS DOWNSTREAM OF THE SETTLING BASIN/OIL SEPARATOR. THESE POLLUTANTS INCLUDE LUBRICANTS, FUELS, CHEMICALS, AND BITUMENS. CONTROL USE OF LUBRICATING OILS, HYDRAULIC FLUIDS, GREASES, AND OTHER SUCH PRODUCTS. PROMPTLY CLEAN UP AND PROPERLY DISPOSE OF MATERIALS CONTAMINATED BY SPILLAGE OR LEAKAGE OF PRODUCTS.
7. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE CURRENT APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP. SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THAN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
8. CONTRACTOR SHALL PROTECT ALL EXISTING DRAIN INLETS WITHIN A 500-FT RADIUS FROM THE CENTER OF THE SITE TO PREVENT NON-STORMWATER RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
9. FOR EROSION CONTROL GENERAL NOTES, AND MISCELLANEOUS REQUIREMENTS, SEE DETAIL 1 ON SHEET C-6.1-01.
10. CONTRACTOR SHALL APPLY SWPPP (STORMWATER POLLUTION PREVENTION PLAN) IF CONSTRUCTION DISTURBED AREA IS EQUAL OR OVER ONE ACRE.
11. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8 TALL AND SHALL HAVE A DUST/MSION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND GING AREA SHALL BE SECURE AT ALL TIMES.

EROSION CONTROL PLAN

20 10 0 20 40

SCALE: 1" = 20'

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LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

MCA ENGINEERS INC
CIVIL & STRUCTURAL
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Tel. 323.729.6098 Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED

#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
EROSION CONTROL PLAN

SHEET NUMBER
C-6.0-01

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. IN CASE OF EMERGENCY, CALL 911.
2. A STAND–BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON–SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE ARCHITECT IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF–SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON SITE WHEREVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE QSP. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
9. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE ARCHITECT.
10. EVERY EFFORT MUST BE MADE TO ELIMINATE THE DISCHARGE OF NONSTORM WATER FROM THE PROJECT SITE AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON–SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION–RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. EXCESS OR WASTE CONCRETE MAY NOT BE WASTED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON–SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
15. CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMP's ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY OAR/IOR AND ARCHITECT (COPIES OF SELF–INSPECTION CHECKLIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST). AT HIS/HER EXPENSE THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A QUALIFIED SWPPP PRACTITIONER FOR THE DURATION OF THE PROJECT.
16. TRASH AND CONSTRUCTION–RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. AS THE ENGINEER OF RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPs NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION QUALITY."
20. THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE "CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK" – JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE ARCHITECT.

EROSION CONTROL

EC1 – SCHEDULING
EC2 – PRESERVATION OF EXISTING VEGETATION
EC3 – HYDRAULIC MULCH
EC4 – HYDROSEEDING
EC5 – SOIL BINDERS
EC6 – STRAW MULCH
EC7 – GEOTEXTILES AND MATS
EC8 – WOOD MULCHING
EC9 – EARTH DIKES AND DRAINAGE SWALES
EC10 – VELOCITY DISSIPATION DEVICES
EC11 – SLOPE DRAINS
EC12 – STREAMBANK STABILIZATION
EC13 – POLYACRYLAMIDE

TEMPORARY SEDIMENT CONTROL

SE1 – SILT FENCE
SE2 – SEDIMENT BASIN
SE3 – SEDIMENT TRAP
SE4 – CHECK DAM
SE5 – FIBER ROLLS
SE6 – GRAVEL BAG BERM
SE7 – STREET SWEEPING AND VACUUMING
SE8 – GRAVEL BAG BARRIER
SE9 – STRAW BALE BARRIER
SE10 – STORM DRAIN INLET PROTECTION

WIND EROSION CONTROL

WE1 – WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT
TC2 – STABILIZED CONSTRUCTION ROADWAY
TC3 – ENTRANCE/OUTLET TIRE WASH

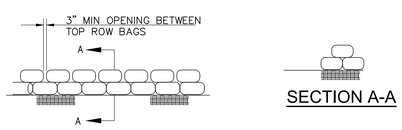
NON–STORMWATER MANAGEMENT

NS1 – WATER CONSERVATION PRACTICES
NS2 – DEWATERING OPERATIONS
NS3 – PAVING AND GRINDING OPERATIONS
NS4 – TEMPORARY STREAM CROSSING
NS5 – CLEARWATER DIVERSION
NS6 – ILLICIT CONNECTION/DISCHARGE
NS7 – POTABLE WATER/IRRIGATION
NS8 – VEHICLE AND EQUIPMENT CLEANING
NS9 – VEHICLE AND EQUIPMENT FUELING
NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
NS11 – PILE DRIVING OPERATIONS
NS12 – CONCRETE CURING
NS13 – CONCRETE FINISHING
NS14 – MATERIAL AND EQUIPMENT USE
NS15 – DEMOLITION ADJACENT TO WATER
NS16 – TEMPORARY BATCH PLANTS

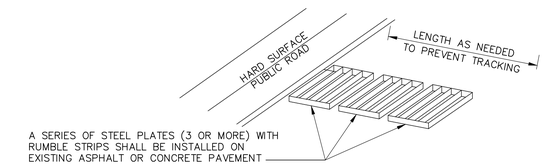
WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

WM1 – MATERIAL DELIVERY AND STORAGE
WM2 – MATERIAL USE
WM3 – STOCKPILE MANAGEMENT
WM4 – SPILL PREVENTION AND CONTROL
WM5 – SOLID WASTE MANAGEMENT
WM6 – HAZARDOUS WASTE MANAGEMENT
WM7 – CONTAMINATION SOIL MANAGEMENT
WM8 – CONCRETE WASTE MANAGEMENT
WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
WM10 – LIQUID WASTE MANAGEMENT

1 GENERAL NOTES



2 GRAVEL BAG DETAIL



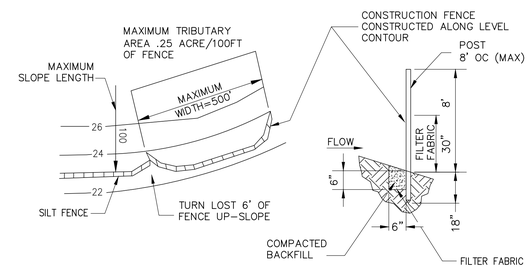
NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. 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:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE RD OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
   B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE

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.

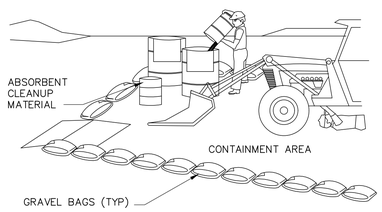
3 STABILIZED CONSTRUCTION ENTRANCE / EXIT



NOTES:

1. CONSTRUCT THE CONSTRUCTION FENCE ALONG A LEVEL CONTOUR.
2. CONSTRUCTION FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
3. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
4. TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
5. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
6. DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
7. WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY–DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS.

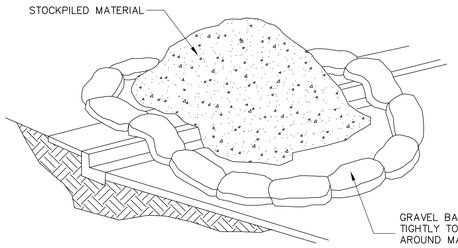
4 SILT FENCE



NOTES:

1. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON–SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT; DO NOT FLUSH WITH WATER.
2. VEHICLES AND EQUIPMENT SHALL BE MAINTAINED AND REPAIRED ON–SITE ONLY IN DESIGNATED AREAS. PREVENT RUN–ON AND RUN–OFF FROM DESIGNATED AREAS. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.
3. DESIGNATE ON–SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, WAY FROM STORM DRAIN INLETS AND WATERCOURSES.
4. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS.
5. LEGALLY DISPOSE OF USED OILS, FLUIDS, AND LUBRICANTS.
6. PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.
7. MAINTAIN ON ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREA.

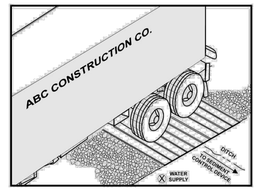
5 EQUIPMENT REPAIR/MAINTENANCE



NOTES:

1. DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SANDBAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORMDRAIN SYSTEM.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON–SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.

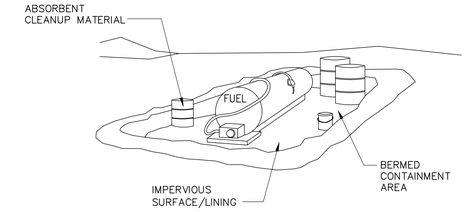
6 MATERIAL STORAGE
NOT TO SCALE



NOTES:

1. THE TIRE WASH REQUIRES A SUPPLY OF WASH WATER.
2. A TURNOUT OR DOUBLEWIDE EXIT IS REQUIRED TO AVOID HAVING ENTERING VEHICLES DRIVE THROUGH THE WASH AREA.
3. DO NOT USE WHERE WET TIRE TRUCKS LEAVING THE SITE LEAVE THE ROAD DANGEROUSLY SLICK.
4. INCORPORATE WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
5. CONSTRUCT ON LEVEL GROUND WHEN POSSIBLE, ON A PAD OF COARSE AGGREGATE GREATER THAN 3 IN. BUT SMALLER THAN 6 IN. A GEOTEXTILE FABRIC SHOULD BE PLACED BELOW THE AGGREGATE.
6. WASH RACK SHOULD BE DESIGNED AND CONSTRUCTED/MANUFACTURED FOR ANTICIPATED TRAFFIC LOADS.

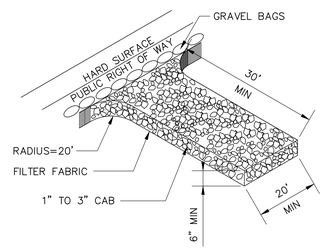
7 ENTRANCE/OUTLET TIRE WASH



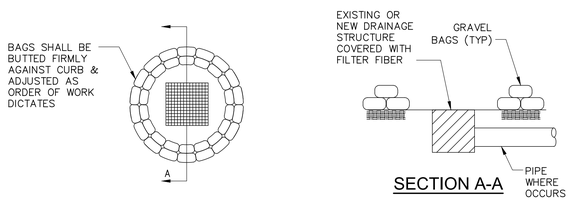
NOTE:

FUELING SHALL BE PERFORMED IN A DESIGNATED AREA, AWAY FROM COURSES. ABSORBENT CLEANUP MATERIAL SHALL BE ON SITE AND USED IMMEDIATELY IN THE EVENT OF A SPILL.

8 VEHICLE / EQUIPMENT FUELING



9 STABILIZED CONSTRUCTION ENTRANCE/EXIT
OPTIONAL BMP



10 GRAVEL BAG CHECKDAM

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DATE: 10/02/2023

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12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

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PROFESSIONAL ENGINEER
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Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

ISSUED

#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

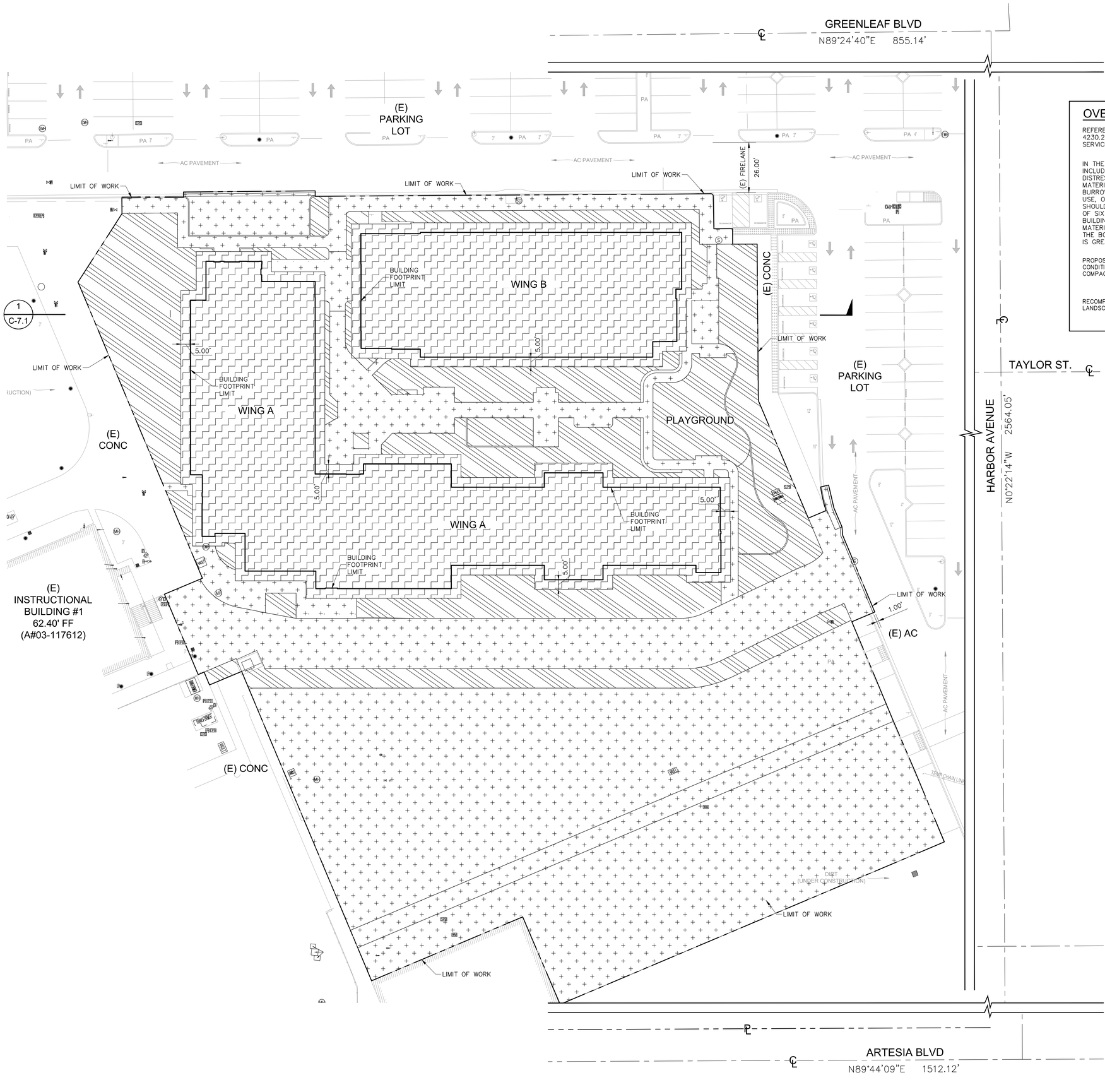
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
EROSION CONTROL DETAILS

SHEET NUMBER
C-6.1-01

CONSTRUCTION DOCUMENTS



OVER-EXCAVATION LEGENDS:

REFERENCE: GEOTECHNICAL ENGINEERING REPORT PROJECT NO. 4230.2200060.0000 DATED APRIL 14,2023 BY UNIVERSAL ENGINEERING SERVICES

IN THE AREA OF THE PROPOSED IMPROVEMENTS, INCLUDING STRUCTURES, ROADWAYS, AND MINOR DISTRESS–SENSITIVE IMPROVEMENTS, EXISTING FILL MATERIAL AND ANY ERODED, DESICCATED, BURROWED, DISTURBED SOILS FROM AGRICULTURAL USE, OR OTHERWISE LOOSE OR DISTURBED SOILS SHOULD BE EXCAVATED TO THE MINIMUM DEPTHS OF SIX FEET IN THE AREAS OF PROPOSED BUILDINGS, TO THE DEPTH OF SUITABLE NATIVE MATERIALS, OR TO A MINIMUM 24 INCHES BELOW THE BOTTOM OF ALL FOOTINGS, WHICHEVER DEPTH IS GREATEST.

PROPOSED PAVEMENT SHOULD BE MOISTURE CONDITIONED TO A DEPTH OF 12 INCHES AND COMPACTED TO ACHIEVE 95 PERCENT COMPACTION.

RECOMPACT 12 INCHES OF SUBGRADE BELOW LANDSCAPING OR PLAY AREAS.

OVEREXCAVATION PLAN

20 10 0 20 40

SCALE: 1"=20'

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INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
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ISSUED

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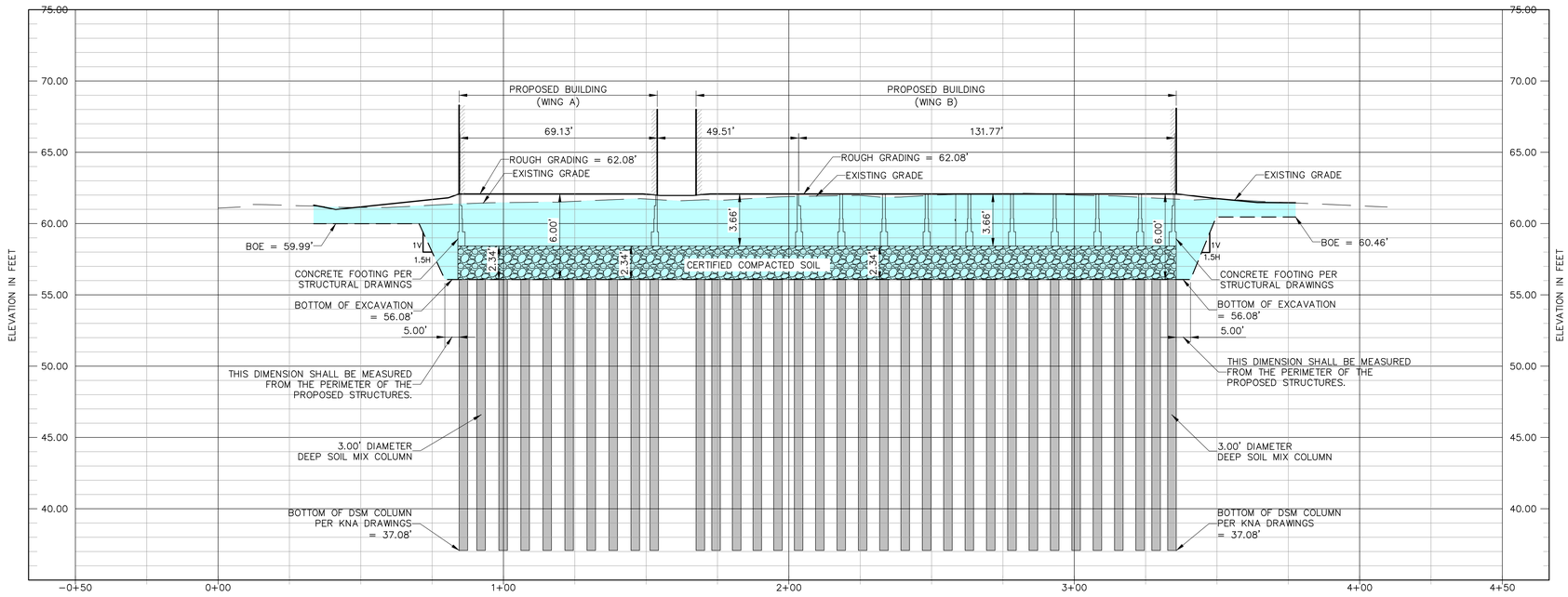
SHEET TITLE
OVEREXCAVATION PLAN

SHEET NUMBER
C-7.0-01

CONSTRUCTION DOCUMENTS



GRADING SECTION 1
SCALE HOR 1"=20' VER 1"=4' C-7.0

SHEET NOTES:

1. INSTALL DSM COLUMN UP TO THE ROUGH GRADING SURFACE, OVEREXCAVATE AND CUT PILE UP TO BOTTOM OF EXCAVATION (56.08') DURING INC 2 PER SHEET KNA-3.

OVEREXCAVATION SECTION

20 10 0 20 40

SCALE: 1"=20

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SHEET TITLE
OVEREXCAVATION SECTION

SHEET NUMBER
C-7.1-01

CONSTRUCTION DOCUMENTS

COMPTON COLLEGE STUDENT HOUSING
DEEP SOIL MIXING (DSM)

USE OF PROPOSALS AND DESIGNS

DESIGNS, SKETCHES, SPECIFICATIONS, AND/OR PROPOSALS ("DESIGNS") PREPARED BY KELLER NORTH AMERICA ("KNA") AND/OR IT'S EMPLOYEES HAVE BEEN PREPARED FOR EXCLUSIVE USE BY KNA AND BASED UPON, AND IN ANTICIPATION OF, KNA PERFORMING THE WORK CALLED FOR IN SUCH DESIGNS. KNA MAKES NO WARRANTIES OR GUARANTEES AS TO THE SUITABILITY OF THE DESIGN FOR USE BY OTHERS. THE DESIGNS ARE SUBJECT TO PROTECTION UNDER THE COPYRIGHT ACT OF 1976 AND ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. USE, CONTROL, REPRODUCTION, PUBLICATION, OR DISSEMINATION OF SUCH DESIGNS WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF KNA IS STRICTLY PROHIBITED. KNA IS, AND SHALL CONTINUE TO BE, THE SOLE OWNER OF THE DESIGNS.

GROUND IMPROVEMENT GENERAL NOTES:

1. OTHERS are to provide a dry, stable, and relative level working platform. It is Keller North America's (KNA) understanding that the working grade will be near existing grade of El. +57 feet. The working surface shall be constructed and managed by others such that KNA's equipment can safely track and efficiently work under its own weight without the need for steel plates or crane mats.
2. The Ground Improvement Engineer is the professional engineer whose stamp resides on this drawing.
3. The GENERAL CONTRACTOR shall confirm that the proposed operation does not conflict with future improvement such as structural, mechanical, plumbing, and electrical prior to DSM installation.
4. An underground service alert must be obtained 2 days before starting work.
5. All permits shall be procured and paid for by the OWNER, other than transportation permits required for KNA's mobilization and demobilization.
6. All encroachment permits within the public right of way and letters of permission from private owners must be obtained by the OWNER.
7. KNA will provide a qualified full-time quality control (QC) representative. This representative is either KNA's Superintendent/Foreman/or Field Engineer. Third party testing and/or inspection shall be provided by OTHERS.
8. Locating, protecting and rerouting/removal of all utilities are the responsibility of OTHERS. KNA is not responsible for damage to existing utilities.
9. After the completion of Ground Improvement work, OTHERS are responsible for the protection of DSM columns. Proper site drainage to prevent ponding of water at the area of the soil-mixed columns and control coordination of earthwork activities shall be managed such that existing soil-mixed columns are not damaged.
10. The DSM locations shown on the approved construction drawings are only for Ground Improvement layouts. These plans should not be used for foundation layout.
11. All post-improvement testing including frequency and criteria for soil-mixed columns are noted on the plans and design submittal.
12. Foundations shall not be poured until approved by the project Geotechnical Engineer of Record.
13. Alternate structural shapes, material, and details cannot be used unless reviewed and approved by the Ground Improvement Design Engineer, DSA & CGS.
14. DSM to provide allowable static soil bearing pressure of up to 2,000 psf. Allow for a 1/3 increase for transient loads such as wind/seismic loading.
15. DSM to provide a coefficient of friction of 0.35.
16. DSM to provide post-construction total static settlement of less than 1 inch.
17. DSM to provide post-construction total liquefaction settlement of less than 1 inch.
18. Max differential settlement of less than 1 inch over 13.9 feet.
19. The drawing set is based on KNA's DSM design submittal REV 01 dated 07/03/2023 and the final geotechnical report provided by Universal Engineering Sciences, Project No. 4230.2200060.0000 dated 07/03/2023.
20. All DSM columns have been arranged to achieve a minimum of 35% Area Replacement Ratio (ARR) under all foundational elements.

DSM VERIFICATION NOTES:

1. The acceptance of the work shall be based on demonstrating that the in-place mixing of grout with the treatment soils has achieved the average design strength requirements. Soilcrete strengths shall be determined statistically by wet (grab) sample and core samples. Confirmation sample collection and testing will be conducted by KNA. Samples shall be collected by KNA using wet sampling and continuous core sampling techniques described below. Test shall be performed at the frequencies described below. Sample collection perform by KNA, testing will be performed by lab hired by owner.
2. Wet Soil mix samples will be retrieved and cast into molds for one column per rig/shift, at one random depth, typically near the end of each shift. Samples will be retrieved using an in situ wet sampler immediately after column construction and shall consist of no fewer than 8 specimens. These samples shall be tested in pairs: two at seven (7) days, two at fourteen days (14), two at twenty eight (28) days and two at fifty six (56) days if necessary. Soil clods greater than 10% of the mold diameter will be screened off. Appropriate curing techniques shall be implemented until testing based on ASTM D 1632.
3. Unconfined compression testing shall be performed by an approved laboratory working directly for the OWNER. Samples shall be tested in pairs starting at 7-days. If the 7-day specimens do not reach the desired strength according to the lab test curve, another pair of specimens will be tested at 14 days, 28 days, and if needed at 56 days. All specimens at 28 days and available 56-days of age will be tested and used in the statistical calculation.
4. If wet grab strengths at 7 days of age are greater than the average required (150 psi) unconfined compressive strength, additional tests may be omitted at the discretion of the GEOR. Wet grab samples will be kept on-site (approximately 3 days) for an initial set before being shipped to the lab.
5. The Unconfined Compressive Strength (UCS) shall be determined by ASTM D1633 "Standard Test Methods for Compressive Strength of Molded Soil-Cement Cylinders". Sulfur or gypsum end caps shall be required in the UCS tests to minimize the end effects on the test specimen. The advantage of the wet sampling is that KNA can get an early trend of the soilcrete strength development without waiting to the end of the project for coring and can make early decisions in the field program to add additional soil mixing columns if necessary.
6. KNA will core 2% of the production DSM columns.
7. All core locations shall be randomly selected and the selection of locations for confirmation coring and selection of core samples for UCS testing are subject to review and approval of the Geotechnical Engineer of Record (GEOR) for the project.
8. At minimum five (5) samples from each core will be extracted. KNA anticipates 5 specimens trimmed from each core hole and tested by ASTM D1633.
9. KNA will calculate the average 28-day UCS value from all core samples and wet grab samples. The target average 28 days UCS value shall be 150 psi or greater. Averages will be taken together.
10. No more than 10 percent of all specimens tested shall exhibit an unconfined compressive strength of less than 75psi at 28 day of age.
11. If the acceptance criteria is not achieved in a designated area, KNA may be given the opportunity to conduct additional UCS test on soilcrete specimens on 56 days of age, site exploration, coring, sampling, downhole imaging, and strength testing from the additional cured specimen to better define the average design strength at KNA's preference and expense. If a designated area is rejected, KNA shall submit a Remixing or Mitigation plan.
12. Uniformity of mixing shall be evaluated by the Ground Improvement Design Engineer and the Geotechnical Engineer of Record (GEOR) based on the continuous core samples recovered. The continuous core holes shall extend the entire depth of the DSM column. Estimated recovery of 85 percent for each 5-foot-long segment of a boring and at least 85 percent when averaged over all core runs within a single boring shall be achieved. The lumps of unimproved soils shall not exceed 15 percent of the total volume of any 5-foot core segment from a boring. If the core recovery is below the anticipated value, KNA shall be allowed to utilize a downhole camera or other approved methods to verify the core hole. This may include additional cores in the same column.
13. At the end of the project, to not unnecessary delay subsequent activities by waiting for 28 days test result, a correction of early strength gain will be used to approve the soil-mixed column work. However, this correlation will not relieve the contractor of the responsibility to achieve average 28 days strength. Based on FHWA (2013) guidelines, the following UCS aging factor correlations will be applied to this job:
    a. 7 day to 28 day projection factor: 1.35
    b. 14 day to 28 day projection factor: 1.15
13. A site-specific correlation between 3 days and 28 days strength may be used to supersede this correlation if in the opinion of the Engineer, the site-specific correlation is more appropriate.
14. Special inspection of soil improvement work is required by the project geotechnical engineer listed on the form DSA 1(or assuming fill responsibility through form DSA 109). This geotechnical engineer shall not be employed by the contractor or ground improvement sub-contractor per CAC 4-335(f). The geotechnical engineer performing special inspection shall submit a final verified report (form DSA 293) covering all geotechnical aspects of the project subject to special inspections, inclusive of the soil improvement work. Special inspection is not a substitute for nor change quality control requirements.
15. After completion of the recommended and accepted final ground improvement program, the consultants should provide a comprehensive final report for CGS review. The report should document their observations, testing, and analysis, including the data collected to satisfy the specified acceptance criteria. The report should include (at a minimum):
    a. All DSM installation logs/records, field testing records, as-built plan and record of installed DSM elements, and daily field reports from both the contractor and consultants' field representative(s).
    b. All equipment calibration reports, QA/QC data and records of DSM installation data.
    c. All DSM coring logs, any downhole televiewer logs, and labratory test results, including summary and calculations of the UCS values of the DSM elements.
    d. Any other pertinent data gathered and/or observations made during the performance of the ground improvement program that are considered in assessing the satisfaction of the design objectives.
    e. Discussion and conclusion(s) regarding satisfaction of the DSM design and performance requirements for the project.

DSM CONSTRUCTION:

1. OWNER will provide to KNA, at least four (4) control points. KNA will provide an AutoCAD Shop Drawing for all DSM columns overlaid on the site Civil drawing and stake all DSM locations.
2. DSM columns will be installed within 3 inches of the design locations as shown in the KNA shop drawing. Construction tolerances:
    a. Plan location ±3 inches
    b. Verticality ±1% of plumb
3. Modifications of DSM locations, diameter, or depth shall be approved by KNA design engineer and GEOR. Additionally, a CCD containing the revisions shall be submitted to DSA for review and approval. KNA retains the sole authority to modify DSM column locations due to constructability and/or site constraints. KNA will prepare as-built drawings after completion.
4. Once a stable working platform has been established as shown in KNA Shop Drawing. DSM columns will be constructed sequentially based on a pattern dictated in the Field. KNA requires access to all DSM locations at all times to maximize efficiency.
5. To minimize the mixing tool damage and maintaining soil mixing quality, KNA may pre-dill holes or excavate for better mixing quality. The holes will be filled with soilcrete up to the working elevation of +62 feet during the mixing stage.
6. In general, soil mixing operation parameters, such as mixing shaft speed, penetration rate, batching grout specific gravity, and pumping rate will be determined based on our lab mixing results and our experience and will be fine-tuned at the beginning of mixing column production. The design cement content in place (cement weight/[soil volume + grout volume]) will start from predetermined cement content and grout slurry specific gravity (sg). KNA's Engineers may adjust the cement content and specific gravity based on the field sample strength development.
7. Vertical alignment of the mix tool stroke will be controlled by the drill rig operator. Two measurements of verticality will be monitored. These are the fore-aft and left-right vertical mast positions. Verticality will be measured by a level as measured on the mixing tool prior to penetration. Intermittent measurements will be made as may be necessary during mixing operations.
8. The mixing shaft speed which is anticipated to be ranging between 40-60 RPM and shall be adjusted to accommodate a constant rate of mixing shaft penetration based on the degree of drilling difficulty. The mixing shaft speed can be adjusted according to drilling difficulty. The mixing shaft speed can be adjusted to aid mixing of the soil column when needed or to assist penetration in hard drilling. Mixing shaft speed will be recorded.
9. In order to ensure adequate mixing, the penetration rate of the mixing shaft shall be maintained at about 1.0 to 3.0 feet/minute during penetration but will vary based on actual site conditions. The penetration rate and maximum depth of each stroke shall be recorded by KNA's data acquisition system (DAQ).
10. The grout slurry (with specific gravity ranging from 1.36 to 1.55) flow per vertical foot of the column will be adjusted to the requirements of the design mix. Progressive cavity pumps will be used to transfer the grout from the mixing plant to the mixing rig. Flow monitoring devices will be installed in the grout line to detect any line blockage and monitor flow, total injected grout per column and grout pressure. These parameters will be recorded.
11. Inevitably some variations of the grout take will occasionally occur due to field conditions. It is anticipated that a grout flow rate between 20 to 160 GPM will be used during penetration. KNA's Data Acquisition System (DAQ) can automatically adjust the grout flow rate as a function of the penetration rate and maintain the pre-set cement dosage prescribed by the design engineer.
12. The mixing shaft will be withdrawn at a rate of 6 to 12 feet per minute during the re-stroke operation and complete removal of the mixing shaft from the ground thus mixed.
13. KNA will use a data acquisition system to monitor the mixing shaft penetration and the shaft rotation resistance in terms of the hydraulic pressure. The DAQ system will calculate and plot the Drilling Index as a function of depth, a mixing parameter to detect penetration resistance and refusal depth. KNA will set up the penetration criteria based on the site measurement. In case of underground obstruction, such as abandoned footings, piles, utilities, etc., the general contractor will be responsible to remove obstructions and backfilled with sandy soil prior KNA mixing operation.
14. Cement will be furnished by KNA and conform to ASTM C150 "Standard Specification for Portland Cement," Type II/V or equivalent. The cement will be adequately protected from moisture and contamination while in transit to and in storage at the job site. Reclaimed cement or cement containing lumps or deleterious matter will not be used.
15. Water for the slurry will be fresh, free of deleterious substances that adversely affect the strength and mixing properties of the slurry, furnished by the OTHERS.
16. The batch plant shall consist of in-line eductor (jet valve) mixers. Dry materials shall be stored in tankers and/or silos and fed to the mixers for shearing and circulation. The resulting grout slurry will be transferred to a surge tank for continuous agitation and to supply the in-situ soil mixing rig. Grout slurry quality will be assured by frequent testing prior to injection into the soil.
17. Single shaft mixing equipment that mechanically mixes the soil and cement slurry for the full dimensions of the column will be used for the work. We anticipate using hydraulic drill rigs for the soil mixing operations. This rig is capable of up to > 150,000 ft-lbs. of torque at > 20 rpm. The working shaft rate of rotation ranges between 20 and 60 rpm. The mixing shaft will have mixing augers and/or blades (paddles) configured in such a manner so that they are capable of thoroughly blending the in-situ soils and cement slurry. The power source for driving the mixing shafts will be sufficient to maintain the required mix tool (shaft) rotation speed in revolutions per minute and penetration/ withdrawal rates from the ground surface to the maximum depth required. The design target Blade Rotation Number (BRN, defined as the number of blades cut in each 1.0-meter soil) will be at least 300.
18. The DSM equipment will be equipped with devices to assure vertical alignment in two planes (90 degrees in plan from each other): fore-aft and left-right. The DSM equipment will be equipped with a real-time display of depth, rotation speed, grout flow rate; grout specific gravity, cumulative grout injected, and grout pressure for each soil mix column. The cement will be mixed with water within the jet valve to create a 1.45 specific gravity mix +/- 0.1. No mixing operation will be only allowed if the DAQ system not functioning.
19. Grout slurry will be supplied to the drill using large size Moyno pumps. These pumps will be sized and powered so that design volumes and pressures can be maintained up to 1,000 ft away from the batching facility. It is anticipated that a continuous grout slurry flow of 150 gallons per minute at 100 psi to the drill rig will be necessary.
20. The batching and pumping facility will be set up at a central location to areas all structures. This will eliminate the need to move the plant once it is established.

DRAWING SHEET INDEX	
SHEET NAME	SHEET NUMBER
TITLE PAGE - DSM GENERAL NOTES	KNA-1
OVERALL DEEP SOIL MIXING LAYOUT	KNA-2
TYPICAL DEEP SOIL MIXING DETAILS	KNA-3

IMAGE COURTESY OF GOOGLE MAPS:

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COMPTON COLLEGE STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD, COMPTON, CA 90221

ISSUED		
#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION
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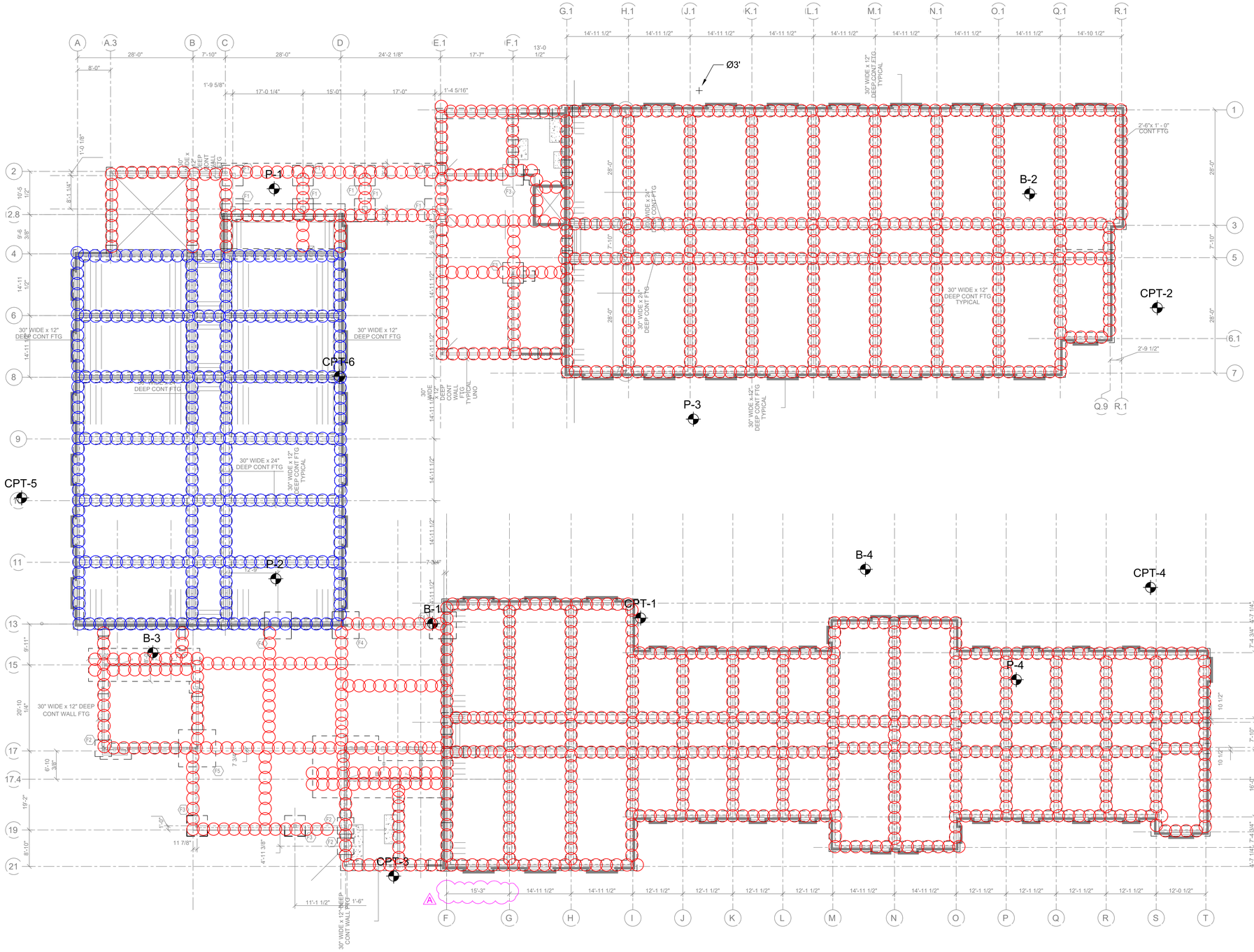
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
TITLE PAGE - DSM GENERAL NOTES

SHEET NUMBER
KNA-1

CONSTRUCTION DOCUMENTS



LEGEND:

- 3 foot diameter column, treatment depth of 20 feet from El. +62 feet
  The total length of the DSM column should be verified during construction by the actual depth of coarse-grained materials
- 3 foot diameter column, treatment depth of 25 feet from El. +62 feet
  The total length of the DSM column should be verified during construction by the actual depth of coarse-grained materials
- Boring/CPT Locations

10' 5' 0' 10' 20'
SCALE : 1" = 10'-0"

OVERALL DEEP SOIL MIXING LAYOUT SCALE 1" = 10'-0" | 2

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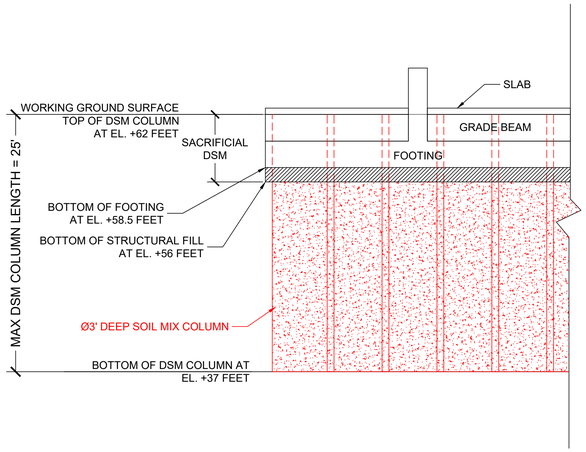
SHEET TITLE
OVERALL DEEP SOIL MIXING LAYOUT

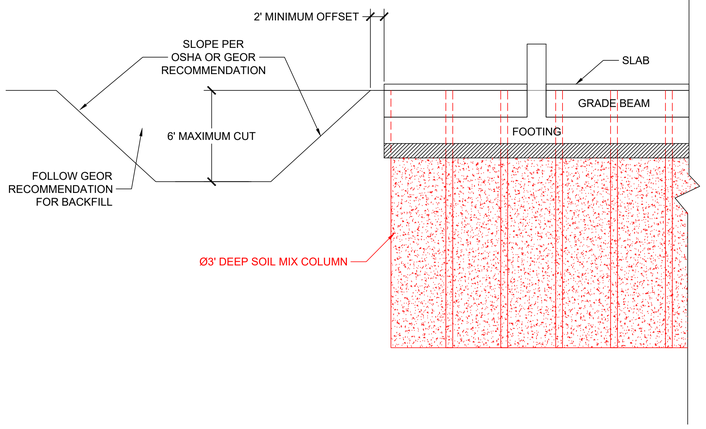
SHEET NUMBER
KNA-2

CONSTRUCTION DOCUMENTS

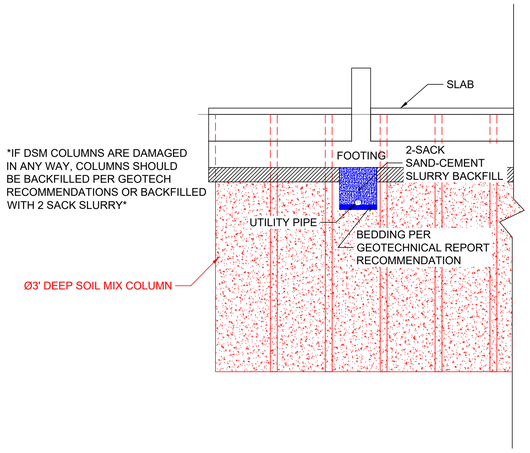
TYPICAL DEEP SOIL MIX COLUMN DETAIL
(NOT TO SCALE)



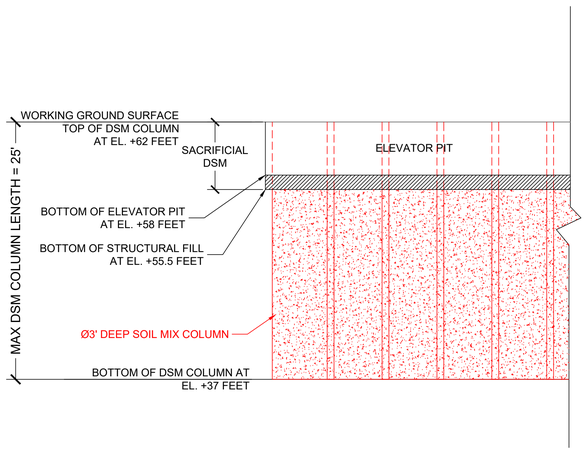
TYPICAL UTILITY EXCAVATION DETAIL
(NOT TO SCALE)



TYPICAL UTILITY TRENCH THROUGH DSM COLUMN
(NOT TO SCALE)



DEEP SOIL MIX COLUMN ELEVATOR PIT DETAIL
(NOT TO SCALE)



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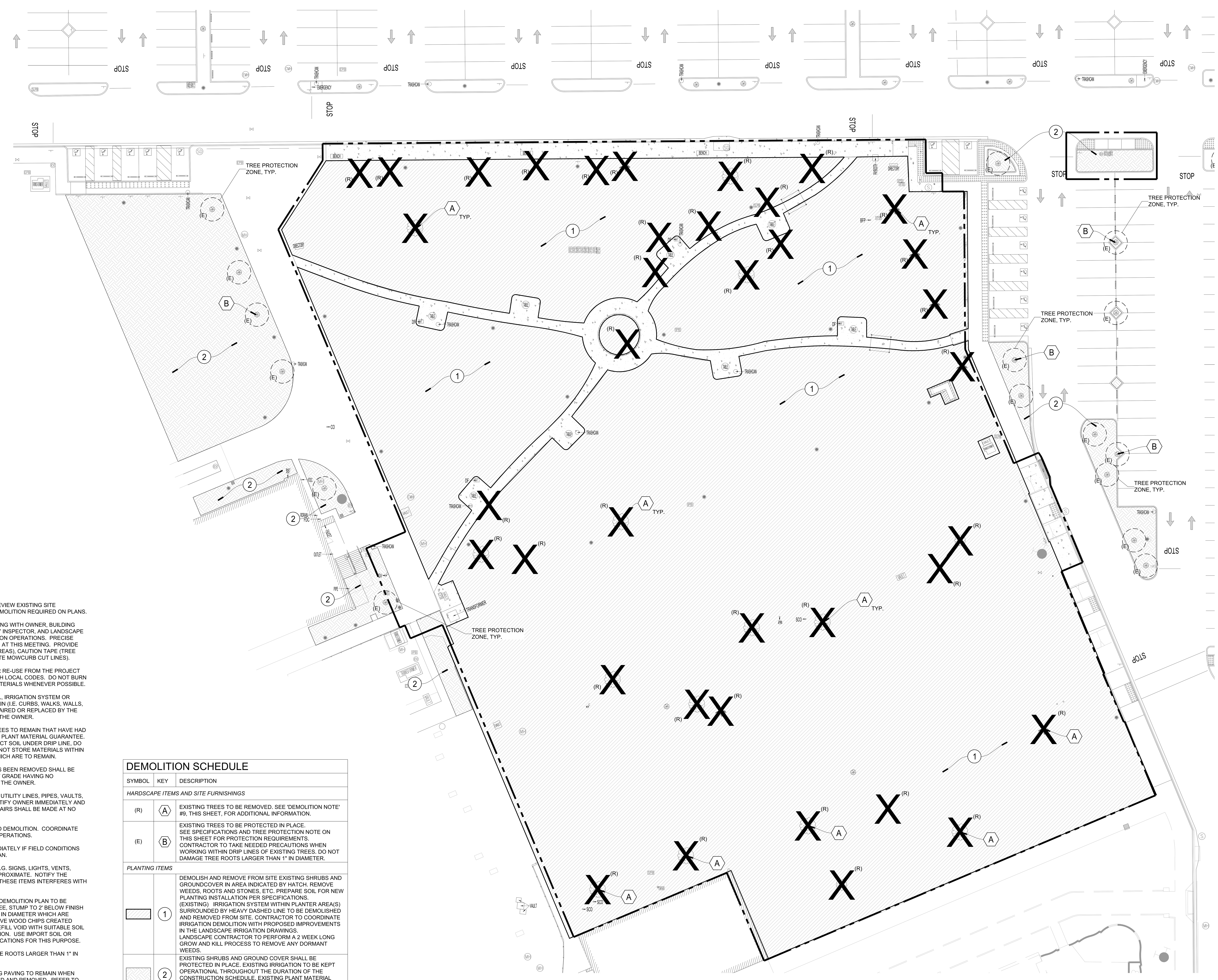
SHEET TITLE
TYPICAL DEEP SOIL MIXING DETAILS

SHEET NUMBER
KNA-3

CONSTRUCTION DOCUMENTS



DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, VISIT SITE TO REVIEW EXISTING SITE CONDITIONS AND TO VERIFY EXTENT OF DEMOLITION REQUIRED ON PLANS.
2. SCHEDULE A DEMOLITION "KICK-OFF" MEETING WITH OWNER, BUILDING OPERATIONS, GENERAL CONTRACTOR, CITY INSPECTOR, AND LANDSCAPE ARCHITECT PRIOR TO BEGINNING DEMOLITION OPERATIONS. PRECISE LIMITS OF DEMOLITION WILL BE CONFIRMED AT THIS MEETING. PROVIDE SPRAY PAINT CANS (MARK PAVING DEMO AREAS), CAUTION TAPE (TREE DEMO), AND BLUE MASKING TAPE (CONCRETE MOWCURB CUT LINES).
3. REMOVE ITEMS NOT REQUIRED FOR FILL OR RE-USE FROM THE PROJECT SITE AND DISPOSE OF IN ACCORDANCE WITH LOCAL CODES. DO NOT BURN RUBBISH OR DEBRIS ON SITE. RECYCLE MATERIALS WHENEVER POSSIBLE.
4. ANY DAMAGE TO EXISTING PLANT MATERIAL, IRRIGATION SYSTEM OR HARDSCAPE ELEMENTS THAT ARE TO REMAIN (I.E. CURBS, WALKS, WALLS, ADJACENT PROPERTY, ETC.) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL LIST ALL EXISTING TREES TO REMAIN THAT HAVE HAD WORK PERFORMED WITHIN 6' OF TRUNK ON PLANT MATERIAL GUARANTEE. PROTECT TREES IN PLACE: DO NOT COMPACT SOIL UNDER DRIP LINE, DO NOT PARK VEHICLES WITHIN DRIP LINE, DO NOT STORE MATERIALS WITHIN DRIP LINE, OR OTHERWISE HARM TREES WHICH ARE TO REMAIN.
6. ALL SURFACES WHERE GROUNDCOVER HAS BEEN REMOVED SHALL BE GRUBBED AND BROUGHT TO A CONSISTENT GRADE HAVING NO IRREGULARITIES, TO THE SATISFACTION OF THE OWNER.
7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITY LINES, PIPES, VAULTS, OR BOXES PRIOR TO ANY EXCAVATION. NOTIFY OWNER IMMEDIATELY AND REPAIR ANY SUCH ITEMS IF DAMAGED. REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
8. SAFE-OFF UTILITIES AS REQUIRED PRIOR TO DEMOLITION. COORDINATE SERVICE INTERRUPTIONS WITH BUILDING OPERATIONS.
9. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF FIELD CONDITIONS SHOULD VARY FROM THOSE SHOWN ON PLAN.
10. LOCATIONS OF EXISTING SITE ELEMENTS (E.G. SIGNS, LIGHTS, VENTS, HYDRANTS, TRANSFORMERS, ETC.) ARE APPROXIMATE. NOTIFY THE OWNER IMMEDIATELY IF THE LOCATION OF THESE ITEMS INTERFERES WITH THE PROPER EXECUTION OF WORK.
11. WHEN DEMOLISHING TREES INDICATED ON DEMOLITION PLAN TO BE REMOVED BY AN "(R)" SYMBOL, REMOVE TREE, STUMP TO 2' BELOW FINISH GRADE, AND ROOTS GREATER THAN 1-INCH IN DIAMETER WHICH ARE LOCATED IN TOP 12-INCHES OF SOIL. REMOVE WOOD CHIPS CREATED FROM STUMP GRINDING PROCESS, THEN REFILL VOID WITH SUITABLE SOIL AND COMPACT TO 80% RELATIVE COMPACTION. USE IMPORT SOIL OR EXCESS SITE SOIL AS INDICATED IN SPECIFICATIONS FOR THIS PURPOSE.
12. WHEN REMOVING PLANT MATERIAL, REMOVE ROOTS LARGER THAN 1" IN DIAMETER.
13. PROVIDE CLEAN SAWCUT EDGE AT EXISTING PAVING TO REMAIN WHEN EXISTING CONCRETE PAVING IS DEMOLISHED AND REMOVED. REFER TO HARDSCAPE PLAN AND DETAILS FOR JOINING OF NEW AND EXISTING PAVING.
14. WHEN DEMOLISHING CONCRETE PAVING ADJACENT TO EXISTING VERTICAL SURFACES, I.E. BUILDING, WALLS, STEPS, ETC. PERFORM THE FOLLOWING PROCEDURES:
    a. REMOVE EXISTING JOINT CAULKING, CONCRETE SLURRY, AND OTHER DELETERIOUS MATERIALS.
    b. AFTER INSTALLING NEW PAVING, REPAIR VERTICAL EDGES TO MATCH ADJACENT SECTIONS OF NON-EFFECTED VERTICAL SURFACES.
15. DO NOT BURY VEGETATION.
16. THIS DEMOLITION PLAN MAY OR MAY NOT ACCURATELY REFLECT TYPE OR EXTENT OF ITEMS TO BE ENCOUNTERED AS THEY MAY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN ON DEMOLITION PLAN, IT IS NOT IMPLIED THAT THEY ARE TO BE DEMOLISHED OR REMOVED WITHOUT PRIOR AUTHORIZATION BY LANDSCAPE ARCHITECT.

DEMOLITION SCHEDULE

SYMBOL	KEY	DESCRIPTION
HARDSCAPE ITEMS AND SITE FURNISHINGS		
(R)	A	EXISTING TREES TO BE REMOVED. SEE 'DEMOLITION NOTE' #9, THIS SHEET, FOR ADDITIONAL INFORMATION.
(E)	B	EXISTING TREES TO BE PROTECTED IN PLACE. SEE SPECIFICATIONS AND TREE PROTECTION NOTE ON THIS SHEET FOR PROTECTION REQUIREMENTS. CONTRACTOR TO TAKE NEEDED PRECAUTIONS WHEN WORKING WITHIN DRIP LINES OF EXISTING TREES. DO NOT DAMAGE TREE ROOTS LARGER THAN 1" IN DIAMETER.
PLANTING ITEMS		
	1	DEMOLISH AND REMOVE FROM SITE EXISTING SHRUBS AND GROUNDCOVER IN AREA INDICATED BY HATCH. REMOVE WEEDS, ROOTS AND STONES, ETC. PREPARE SOIL FOR NEW PLANTING INSTALLATION PER SPECIFICATIONS. (EXISTING) IRRIGATION SYSTEM WITHIN PLANTER AREA(S) SURROUNDED BY HEAVY DASHED LINE TO BE DEMOLISHED AND REMOVED FROM SITE. CONTRACTOR TO COORDINATE IRRIGATION DEMOLITION WITH PROPOSED IMPROVEMENTS IN THE LANDSCAPE IRRIGATION DRAWINGS. LANDSCAPE CONTRACTOR TO PERFORM A 2 WEEK LONG GROW AND KILL PROCESS TO REMOVE ANY DORMANT WEEDS.
	2	EXISTING SHRUBS AND GROUND COVER SHALL BE PROTECTED IN PLACE. EXISTING IRRIGATION TO BE KEPT OPERATIONAL THROUGHOUT THE DURATION OF THE CONSTRUCTION SCHEDULE. EXISTING PLANT MATERIAL THAT DIES OR IS DAMAGED THROUGHOUT CONSTRUCTION SHALL BE REPLACED TO LIKE NEW CONDITION.
	3	DEMO HARDSCAPE SURFACE PER CIVIL PLANS
TREE REMOVAL COUNTS: TOTAL NON-PROTECTED TREES REMOVED = **38**		

TPZ -
TREE PROTECTION ZONE

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LIC. #4524
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09/05/2023
(Date)
07/21/24
(Exp. Date)
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SHEET TITLE
LANDSCAPE
DEMOLITION PLAN

SHEET NUMBER

L1.01

CONSTRUCTION DOCUMENTS

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	FEEDER CALLOUT
	EXISTING FEEDER CALLOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT EMERGENCY
W W	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE
G	GENERATOR
	SWITCH
	CIRCUIT BREAKER
	2-WAY SWITCH, TRANSFER SWITCH
	FUSE
	TRANSFORMER
	GROUND CONNECTION
	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER
M	METER
ECM	ELECTRONIC CIRCUIT MONITOR
	480V DRAWOUT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	PANEL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
S M	SWITCH MOTOR RATED
	SPLICE
	TERMINATION
	EXISTING TERMINATION
52	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
	MEDIUM VOLTAGE MODULAR SPLICE
	MEDIUM VOLTAGE EXISTING MODULAR SPLICE
X y	2X4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	2X2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

SYMBOL	DESCRIPTION
X y	DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	BOLLARD LUMINAIRE
	POST TOP LUMINAIRE
	POLE MOUNTED LUMINAIRE, SINGLE HEAD
	POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	POLE MOUNTED LUMINAIRE, QUAD HEAD
	IN GRADE LUMINAIRE
	PATHWAY LUMINAIRE
	LANDSCAPE FIXTURE
	EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
J	JUNCTION BOX
PC	PHOTOCELL FOR EXTERIOR APPLICATIONS
DS	DAYLIGHT SENSOR - CEILING MOUNTED
R	RELAY
ER	EMERGENCY RELAY UL 924 COMPLIANT
M	MOTION SENSOR - CEILING MOUNTED
M	MOTION SENSOR - CORNER OR WALL MOUNTED
M	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
MD	COMBINATION MOTION AND DAYLIGHT SENSOR
N	LIGHTING CONTROL NETWORK DEVICE
TM	DIGITAL TIMER SWITCH
MS	MOTION SENSOR SWITCH
LV	LOW VOLTAGE SWITCH
DM	DIMMER MASTER SWITCH
D	DIGITAL DIMMING SWITCH
G	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
T	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
J	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
J	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
J	MODULAR FURNITURE - POWER POLE FEED CONNECTION
	LIGHTING CONTROL PANEL - SURFACE MOUNTED
	PANELBOARD - RECESSED MOUNTED
	PANELBOARD - SURFACE MOUNTED
	DISTRIBUTION PANEL/ BOARD
S	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE:
S 3	SWITCH 3-WAY (48" AFF MAXIMUM)
S T	TIMER SWITCH (48" AFF MAXIMUM)
S ab	DUAL SWITCH (48" AFF MAXIMUM)
	PUSHBUTTON SWITCH
	RECESSED ON WALL G=GFI, WP=WEATHERPROOF SURFACE G=GFI, WP=WEATHERPROOF FLOOR OR CEILING C=CEILING
	20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V QUAD RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V DUPLEX RECEPTACLE RECEPTACLE ON DEDICATED CIRCUIT
	20A, 125V CONTROLLED DUPLEX RECEPTACLE
	20A, 125V QUAD RECEPTACLE (HALF) CONTROLLED RECEPTACLE
	SPECIAL RECEPTACLE REFER TO DRAWINGS FOR NEMA CONFIGURATION
J	JUNCTION BOX
	RECESSED POKE-THROUGH RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
	20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
	20A, 125V QUAD RECEPTACLE FIRE RATED TYPE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
&	AND
1/C	SINGLE CONDUCTOR
@	AT
A OR AMP	AMPERES
A.C.	ASPHALT CONCRETE
ABV	ABOVE
AF	AMPERE FUSE RATING
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT; ARCHITECTURAL
AS	AMPERE SWITCH RATING
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
ATC	AIR TERMINAL CHAMBER
ATO	AUTOMATIC THROW-OVER (SWITCH)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
B.S.	BARE STRANDED
BAT	BATTERY
BEL	BELOW
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
C.O.	CONDUIT ONLY WITH PULL WIRE
CB	CIRCUIT BREAKER
CC	CONSTANT CURRENT
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CP	COMMUNICATION PROCESSOR
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CSFD	COMBINATION SMOKE FIRE DAMPER
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DIAG	DIAGRAM
DIS	DISCONNECT
DIST.	DISTANCE
DL	DAMP LOCATION LISTING
DM	DIGITAL METER
DMM	DIGITAL METER MODULE
DP	DISTRIBUTION PANEL
DWG	DRAWING
DWP	DEPARTMENT OF WATER & POWER
EA	EACH
ECM	ELECTRIC CIRCUIT MONITOR
ELEC.	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
ERR	EXISTING TO BE RELOCATED AND RECONNECTED
EXIST/(E)	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FFE	FINISHED FLOOR ELEVATION
FIN.	FINISH
FIP.	FIELD INTERFACE PANEL
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OBTIC
FT	FEET
FTG	FOOTING
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GG	GREEN GROUND
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
ICON	INTEGRATED COMMUNICATIONS OPTICAL NETWORK
IE	INVERT ELEVATION
IED	INTELLEGENT ELECTRONIC DEVICE
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT
J, JB, J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LF	LINEAR FEET

ABBREVIATION	DESCRIPTION
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGST	LARGEST
LIS	LOAD INTERRUPTER SWITCH
LOC.	LOCATION
LOTO	LOCK-OUT & TAG-OUT
LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
LSIG	LONG TERM, SHORT TERM, INSTANTANEOUS GROUNDING
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFGR, MFR	MANUFACTURER
MH	MANHOLE
MI.	MECHANICAL INTERLOCK
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRCT	MULTI-RATIO CURRENT TRANSFORMER
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTTB	MAIN TELEPHONE TERMINAL BOARD
MV	MEDIUM VOLTAGE
N	NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT- 24HRS ON
NO.	NUMBER
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRICAL
OFC	OIL FUSED CUTOUT
OH	OVER HEAD
OL	OIL LEVER SWITCH
P	POLE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER
PB	PULL BOX
PC	PHOTOCELL
PCB	POLYCHLORINATED BIPHENYL
PDS	PRESSURE DIFFERENTIAL SWITCH
PF	POWER FACTOR
PH OR Ø	PHASE
PILC	PAPER INSULATED, LEAD COVER
PIV	POST INDICATING VALVE
PL	PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
POC	POINT OF CONNECTION
PREF.	PREFERRED
PRI.	PRIMARY
PVC	POLY-VINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RTAC	REAL TIME AUTOMATION CONTROLLER
SCCR	SHORT CIRCUIT CURRENT RATING
SCE	SOUTHERN CALIFORNIA EDISON
SF	SQUARE FEET
SHT	SHEET
SIG.	SIGNAL
SP	SPARE
SPECS	SPECIFICATIONS
ST	STREET
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SWST	SWITCHING STATION
T.O.D.	TOP OF DUCTBANK
T.O.M.	TOP OF MANHOLE
TB	TERMINAL BLOCK
TEL./TELE	TELEPHONE
TMH	TELEPHONE MANHOLE
TPS	TWISTED SHIELDED PAIR
TRANSF, XFMR	TRANSFORMER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VB	VIBRATION SWITCH
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
Z	IMPEDANCE

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
3. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
4. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
   - ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.
     - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
     - B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
     - C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
   - THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
     - A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
     - B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
   - FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE.

   THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

   COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

   THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SHEET INDEX

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123205 INC:
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DATE: 10/02/2023

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C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
BRYANT M. TRAM
No. E22225
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

ISSUED		
#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

SHEET NUMBER

E0.01-01

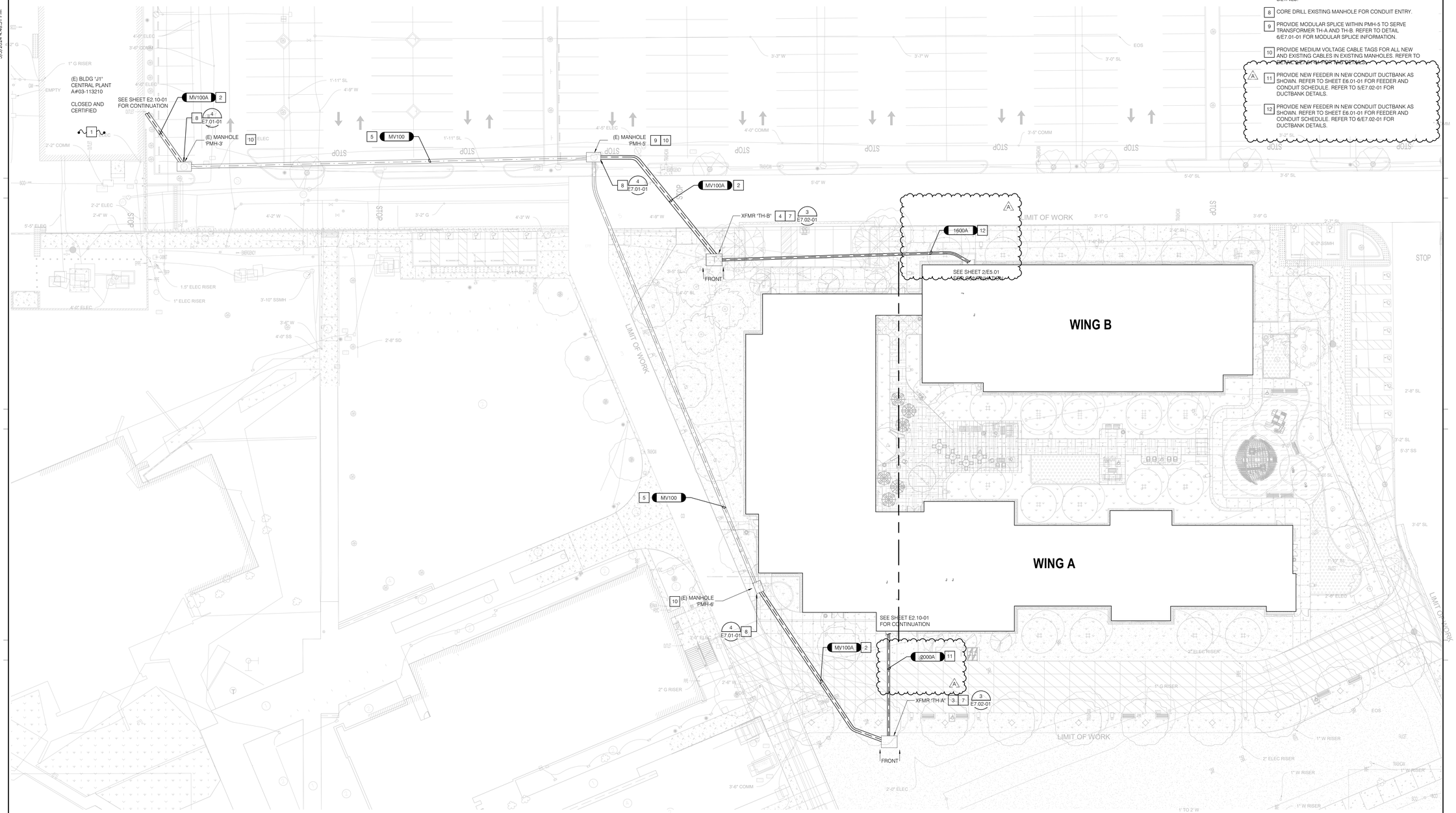
CONSTRUCTION DOCUMENTS

GENERAL NOTES

A. REFER TO SINGLE LINE DIAGRAM ON SHEET E6.01-01 FOR FEEDER SIZING AND EQUIPMENT CONNECTION DETAILS.

NOTES

1. CAMPUS POINT OF SERVICE FOR MEDIUM VOLTAGE IS LOCATED AT SITE SWITCH "PMS-7".
2. PROVIDE NEW FEEDER IN NEW CONDUIT DUCTBANK AS SHOWN. REFER TO SHEET E6.01-01 FOR FEEDER AND CONDUIT SCHEDULE. REFER TO 2/E7.02-01 FOR DUCTBANK DETAILS.
3. PROVIDE 750KVA LIQUID-FILLED PADMOUNT TRANSFORMER 'TH-A' ALONG WITH ALL ASSOCIATED ACCESSORIES AND SECONDARY BREAKERS IN NEMA 3R ENCLOSURES AS SHOWN. PROVIDE 8'X10' CONCRETE PAD. PROVIDE MINIMUM 8' CLEARANCE IN FRONT OF TRANSFORMER CABINET FACE. REFER SINGLE LINE DIAGRAM SHEET E6.01-01 FOR TRANSFORMER RATING AND ADDITIONAL INFORMATION.
4. PROVIDE 500KVA LIQUID-FILLED PADMOUNT TRANFORMER 'TH-B' ALONG WITH ALL ASSOCIATED ACCESSORIES AND SECONDARY BREAKERS IN NEMA 3R ENCLOSURE AS SHOWN. PROVIDE 8'X10' CONCRETE PAD. PROVIDE MINIMUM 8' CLEARANCE IN FRONT OF THE TRANFORMER CABINET FACE. REFER TO SINGLE LINE DIAGRAM SHEET E6.01-01 FOR TRANSFORMER RATING AND ADDITIONAL INFORMATION.
5. PROVIDE NEW CONDUCTORS AS SHOWN IN EXISTING 5" CONDUITS IN DUCTBANK FROM MANHOLE 'PHM-3' TO MANHOLE 'PMH-6'.
6. PROVIDE NEW CONDUCTORS AS DENOTED IN EXISTING 5" CONDUIT IN DUCTBANK FROM MANHOLE PMH-6 TO MANHOLE PMH-5.
7. PROVIDE EQUIPMENT GROUNDING FOR TRANSFORMERS. REFER TO SHEET E7.03-01 DETAILS 2,3,4 FOR GROUNDING DETAILS.
8. CORE DRILL EXISTING MANHOLE FOR CONDUIT ENTRY.
9. PROVIDE MODULAR SPLICE WITHIN PMH-5 TO SERVE TRANSFORMER TH-A AND TH-B. REFER TO DETAIL 6/E7.01-01 FOR MODULAR SPLICE INFORMATION.
10. PROVIDE MEDIUM VOLTAGE CABLE TAGS FOR ALL NEW AND EXISTING CABLES IN EXISTING MANHOLES. REFER TO DETAIL 5/E7.01-01 FOR DETAILS.
11. PROVIDE NEW FEEDER IN NEW CONDUIT DUCTBANK AS SHOWN. REFER TO SHEET E6.01-01 FOR FEEDER AND CONDUIT SCHEDULE. REFER TO 5/E7.02-01 FOR DUCTBANK DETAILS.
12. PROVIDE NEW FEEDER IN NEW CONDUIT DUCTBANK AS SHOWN. REFER TO SHEET E6.01-01 FOR FEEDER AND CONDUIT SCHEDULE. REFER TO 6/E7.02-01 FOR DUCTBANK DETAILS.



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A# 03-123205 INC: 01

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STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE
STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

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#	DATE	DESCRIPTION
A	07/05/2023	DSA 30 DAY CHECK SUBMITTAL

PROJECT IDENTIFICATION
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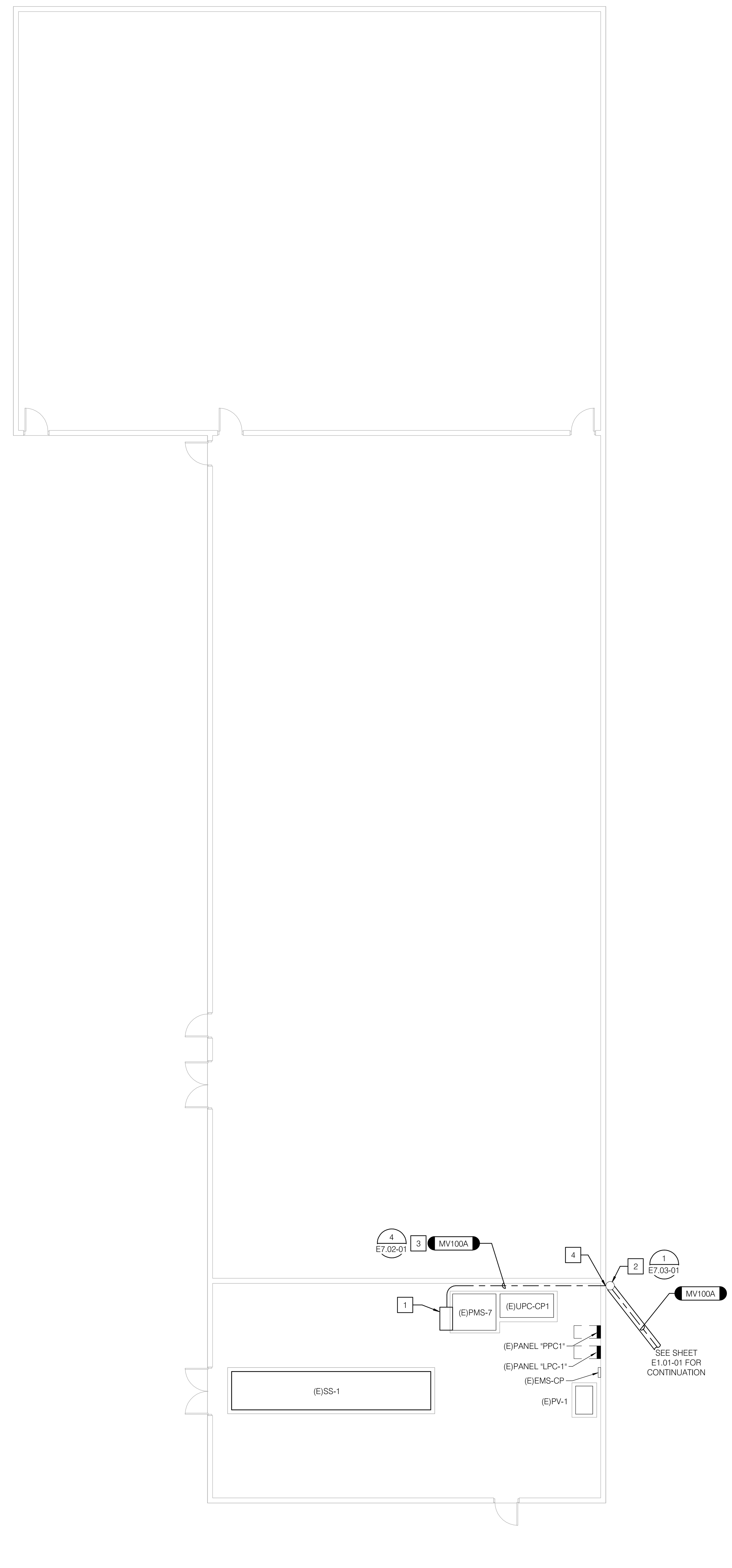
SHEET TITLE
SITE UTILITY PLAN

SHEET NUMBER
E1.01-01

CONSTRUCTION DOCUMENTS

8/18/2023 12:50:30 PM Autodesk Docs://Compton College Student Housing/Compton College Student Housing_MEP.rvt



NOTES

1. PROVIDE PULLBOX 'PB-M2' MOUNTED ON SIDE OF EXISTING SWITCH PMS-7 ROUTING FOR NEW MEDIUM VOLTAGE FEEDERS. PULLBOX SHALL BE 48"H X 36"W X 48"D AND BE FITTED WITH REMOVEABLE COVERS.
2. PROVIDE LB FOR CONDUIT PENETRATION AND TRANSITION INTO AN UNDERGROUND TRENCH
3. ROUTE NEW MV FEEDERS IN 4" CONDUIT MOUNTED ALONG CENTRAL PLANT WALL. REFER TO DETAIL 4/E7.02-01 FOR MOUNTING DETAIL.
4. CONDUIT TO HAVE A PENETRATION THROUGH THE CENTRAL PLANT WALL. EXISTING BEBAR TO BE TRACED AND MAKE NEW OPENINGS WITH MINIMUM 2" SEPERATION FROM RERAR.
5. PROVIDE NEW FEEDER IN NEW CONDUIT DUCTBANK AS SHOWN. REFER TO SHEET E6.01-01 FOR FEEDER AND CONDUIT SCHEDULE. REFER TO 2/E7.02-01 FOR DUCTBANK DETAILS.

GENERAL NOTES

A. CAMPUS POINT OF SERVICE FOR MEDIUM VOLTAGE IS LOCATED AT SITE SWITCH "PMS-7".

N
SCALE: 1/8" = 1'-0"

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SHEET TITLE

CENTRAL PLANT
BUILDING

SHEET NUMBER

E2.10-01

CONSTRUCTION DOCUMENTS

FEEDER AND CONDUIT SCEDULE

SYMBOLS	CONDUIT	SETS OF CONDUCTORS PER CONDUIT
100A	(1)1-1/2"C	(4)#1 CU, 1#8CU GND
200A	(1)2"C	(4)#3/0 CU, 1#6CU GND
400A	(1)3-1/2"C	(4)#600MCM CU, 1#3CU GND
1600A	(4)4"C	(4)#500MCM CU, 1#4/0CU GND
2000A	(6)4"C	(4)#500MCM CU, 1#250CU GND

FEEDER AND CONDUIT SCEDULE

SYMBOLS	CONDUIT	VOLTAGE	SETS OF CONDUCTORS PER CONDUIT
MV100A	5"C	5/8kV	3#4/0 CU, 1#4/0CU GND
MV100	EXISTING 5"	5/8kV	3#4/0 CU, 1#4/0CU GND

NOTES

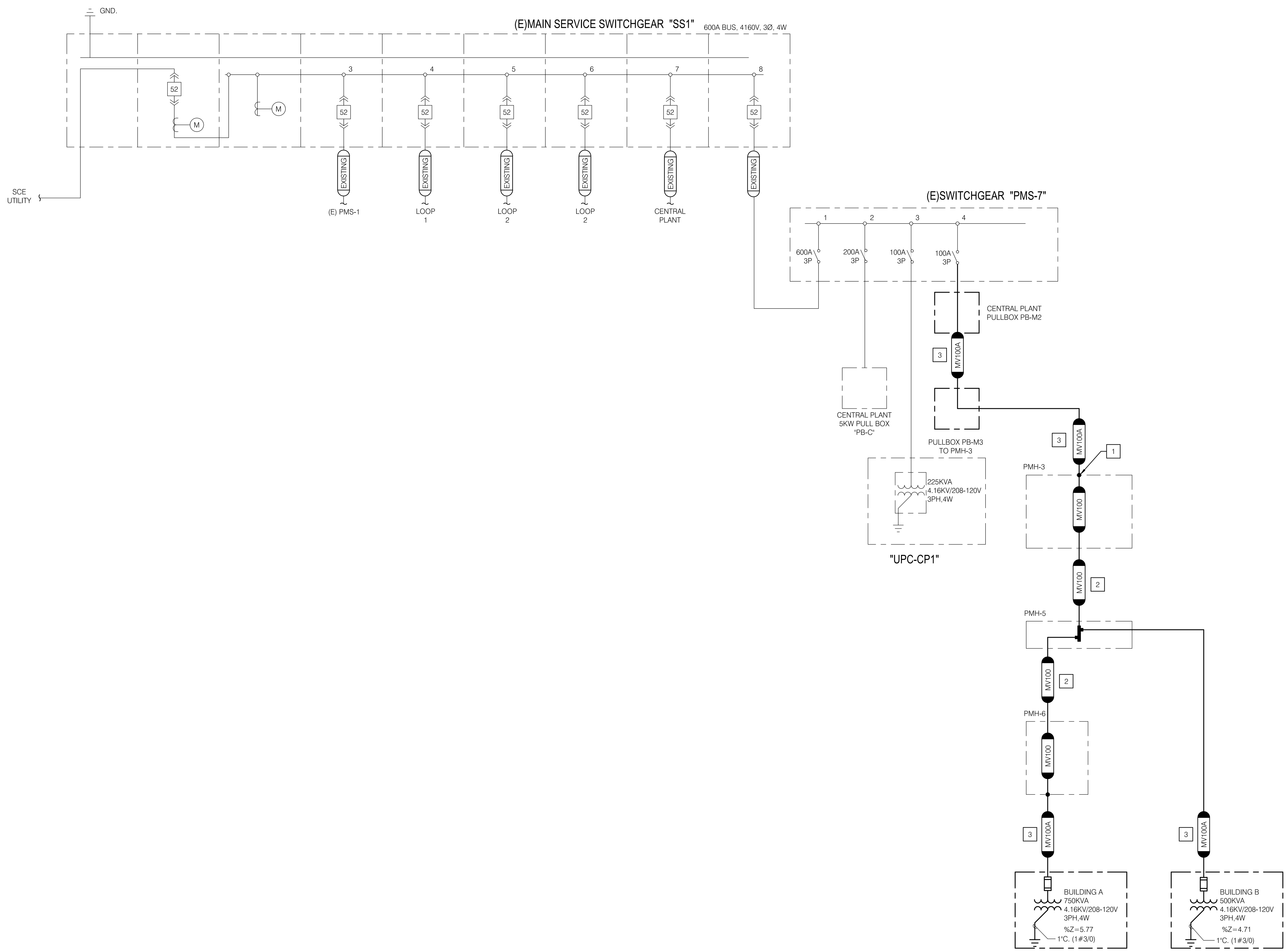
1. CORE DRILL (E) MANHOLE FOR CONDUIT ENTRY.
2. PROVIDE AND PULL NEW CONDUCTORS IN EXISTING CONDUITS
3. PROVIDE NEW FEEDER IN NEW CONDUIT DUCTBANK REFER TO SHEET E1.01-01. FOR SIZES REFER TO FEEDER AND CONDUIT SCHEDULE. REFER TO 2/E7.02-01 FOR DUCTBANK DETAILS.

A

GENERAL NOTES

A. NEW WORK IS SHOWN IN BOLD. ALL OTHER EQUIPMENT IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL SWITCHGEAR SHALL BE ABB OR EQUAL BY EATON, SQUARE-D, OR SIEMENS.



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SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2025 RENEWAL DATE STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

P2S ENG
Long Beach // Irvine // Los Angeles
San Diego // San Jose // Seattle
p2sinc.com

REGISTERED PROFESSIONAL ENGINEER BRYANT M. TRAM No. E22225 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

ISSUED		
#	DATE	DESCRIPTION
A	03/05/2024	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

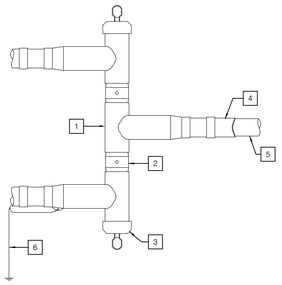
SHEET TITLE

SINGLE LINE DIAGRAM-MV UTILITY

SHEET NUMBER

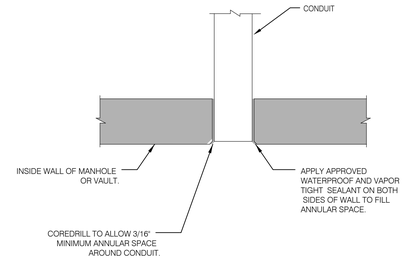
E6.01-01

CONSTRUCTION DOCUMENTS

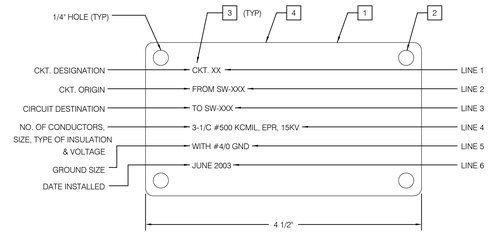


NOTES	
1	600A SEPARABLE, 15/25KV INSULATED DEAD-BREAK MODULAR CONNECTOR.
2	CONNECTING PLUG.
3	DEAD-END PLUG & VOLTAGE DETECTION CAP.
4	CABLE ADAPTOR KIT.
5	5/8KV CABLE.
6	GROUNDING BRAID WITH MOISTURE BLOCK TO SYSTEM GROUND.

6 MODULAR 3-WAY SPLICE
NO SCALE

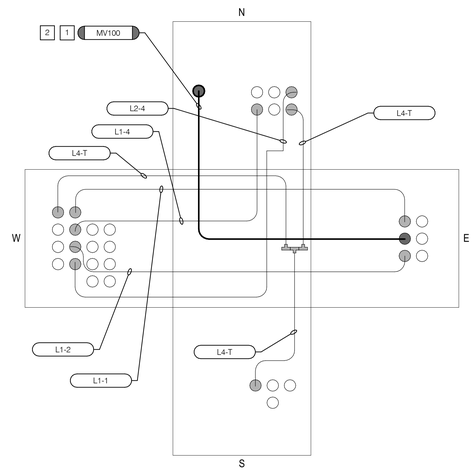


4 MANHOLE CORING
NO SCALE



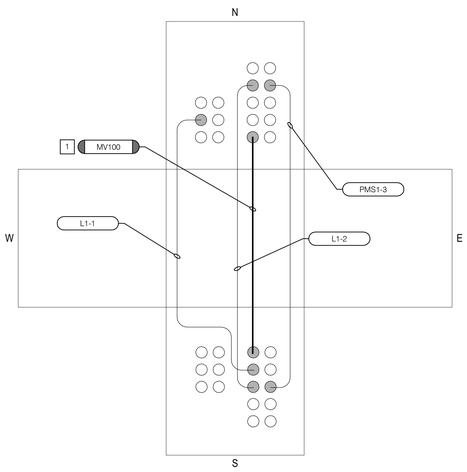
NOTES	
1	1/8" THICK LAMINATED WHITE MELAMINE (WITH BLACK CORE) PLASTIC TAG WITH MATTE WHITE FINISH, WITH CHARACTERS CUT THROUGH THE WHITE PLASTIC.
2	USE LOCK-ON TYPE NYLON TIES TO ATTACH TAG TO CABLE.
3	ALL LETTERS & NUMBERS ARE 1/4" HIGH.
4	FEEDER CIRCUITS IN EACH MANHOLE SHALL BE TAGGED.

2 MEDIUM VOLTAGE CABLE TAG
NO SCALE



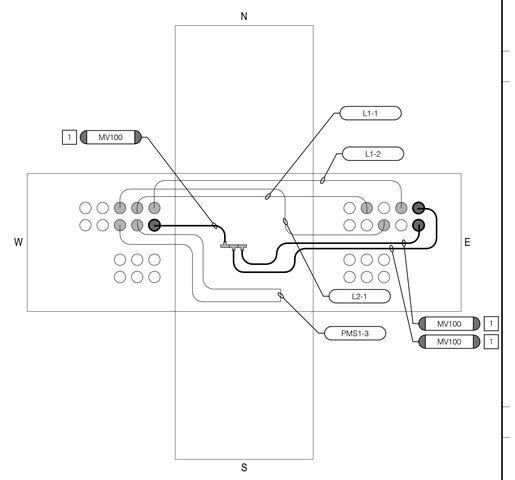
NOTES	
1	CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING CONDUIT TO ROUTE CONDUCTORS SHOWN FROM PMS-07 TO NEW PAD MOUNT TRANSFORMERS.
2	CORE DRILL EXISTING MANHOLE FOR CONDUIT ENTRY

5 PMH-3 MANHOLE DIAGRAM
NO SCALE



NOTES	
1	CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING CONDUIT TO ROUTE CONDUCTORS SHOWN FROM PMS-07 TO NEW PAD MOUNT TRANSFORMERS.

3 PMH-6 MANHOLE DIAGRAM
NO SCALE



NOTES	
1	CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING CONDUIT TO ROUTE CONDUCTORS SHOWN FROM PMS-07 TO NEW PAD MOUNT TRANSFORMERS.

1 PMH-5 MANHOLE DIAGRAM
NO SCALE

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SEAL

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AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

P2S ENG
Long Beach // Irvine // Los Angeles
San Diego // San Jose // Seattle
p2sinc.com

REGISTERED PROFESSIONAL ENGINEER
No. E32229
Bryant Seagle
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE
COMPTON COLLEGE
STUDENT HOUSING
INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES
1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

ISSUED

#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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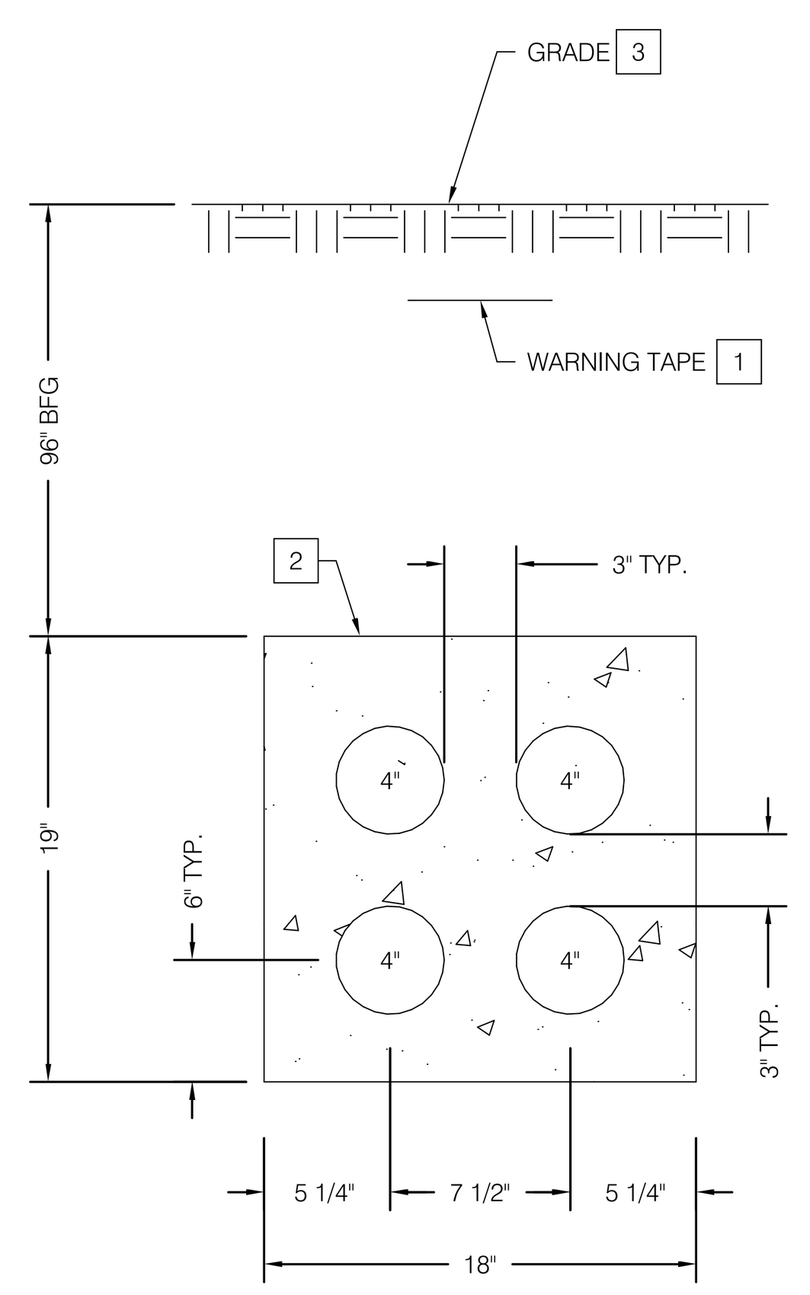
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
DETAILS

SHEET NUMBER
E7.01-01

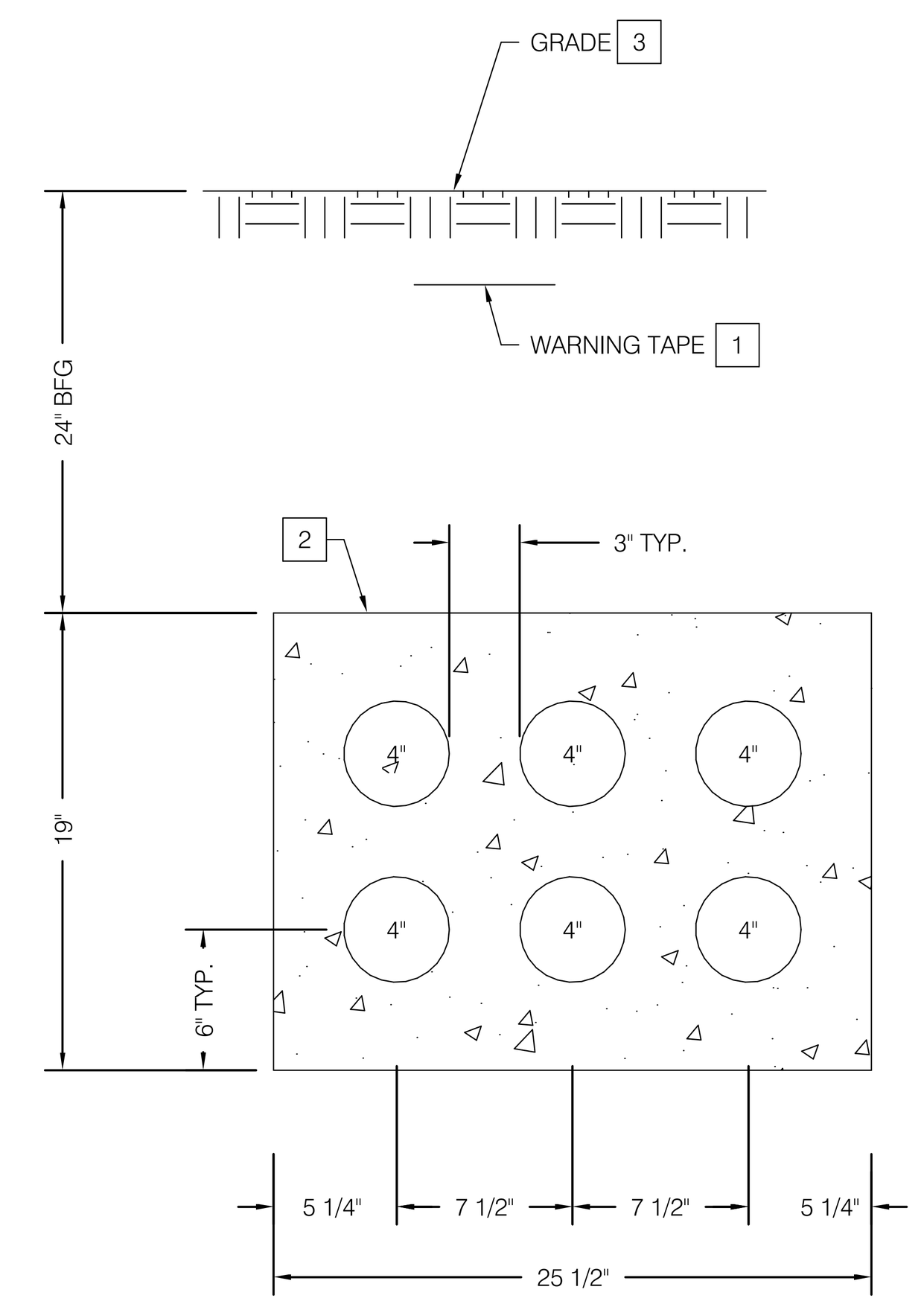
CONSTRUCTION DOCUMENTS



NOTES

1	WARNING TAPE FOR MEDIUM VOLTAGE DUCTBANKS ONLY. PROVIDE AT 12" BELOW FINISH GRADE.
2	RED CONCRETE ENCASEMENT CONSISTING OF 3 SACK OF CEMENT AND 10 LBS OF RED OXIDE (OR 1 GALLON OF RED COLOR) PER CUBIC YARD OF SAND FOR MEDIUM VOLTAGE DUCTBANKS ONLY.
3	RESTORE AREAS AND SURFACE AT AREAS DISTURBED TO MATCH EXISTING ADJACENT MATERIALS. REESTABLISH ORIGINAL GRADES.

6 DUCTBANK BUILDING B - 4 CONDUITS
NO SCALE



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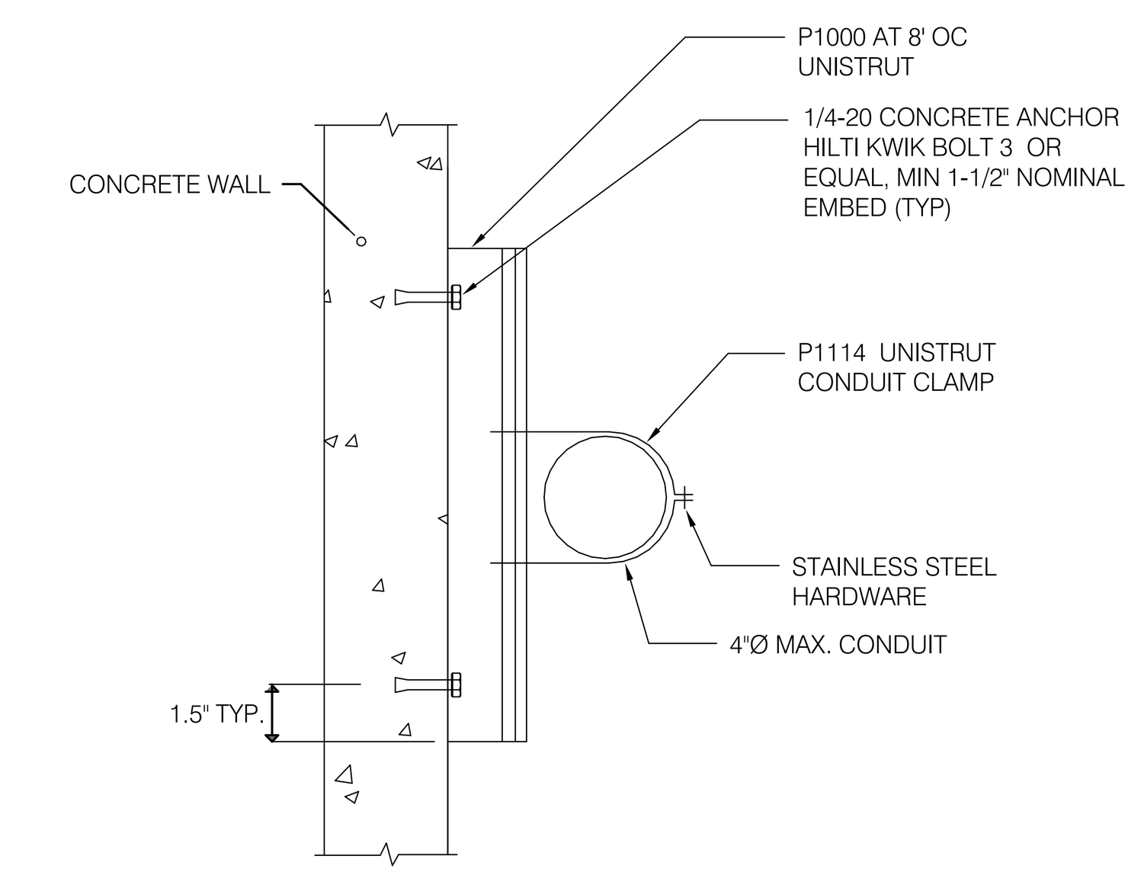
3	RESTORE AREAS AND SURFACE AT AREAS DISTURBED TO MATCH EXISTING ADJACENT MATERIALS. REESTABLISH ORIGINAL GRADES.

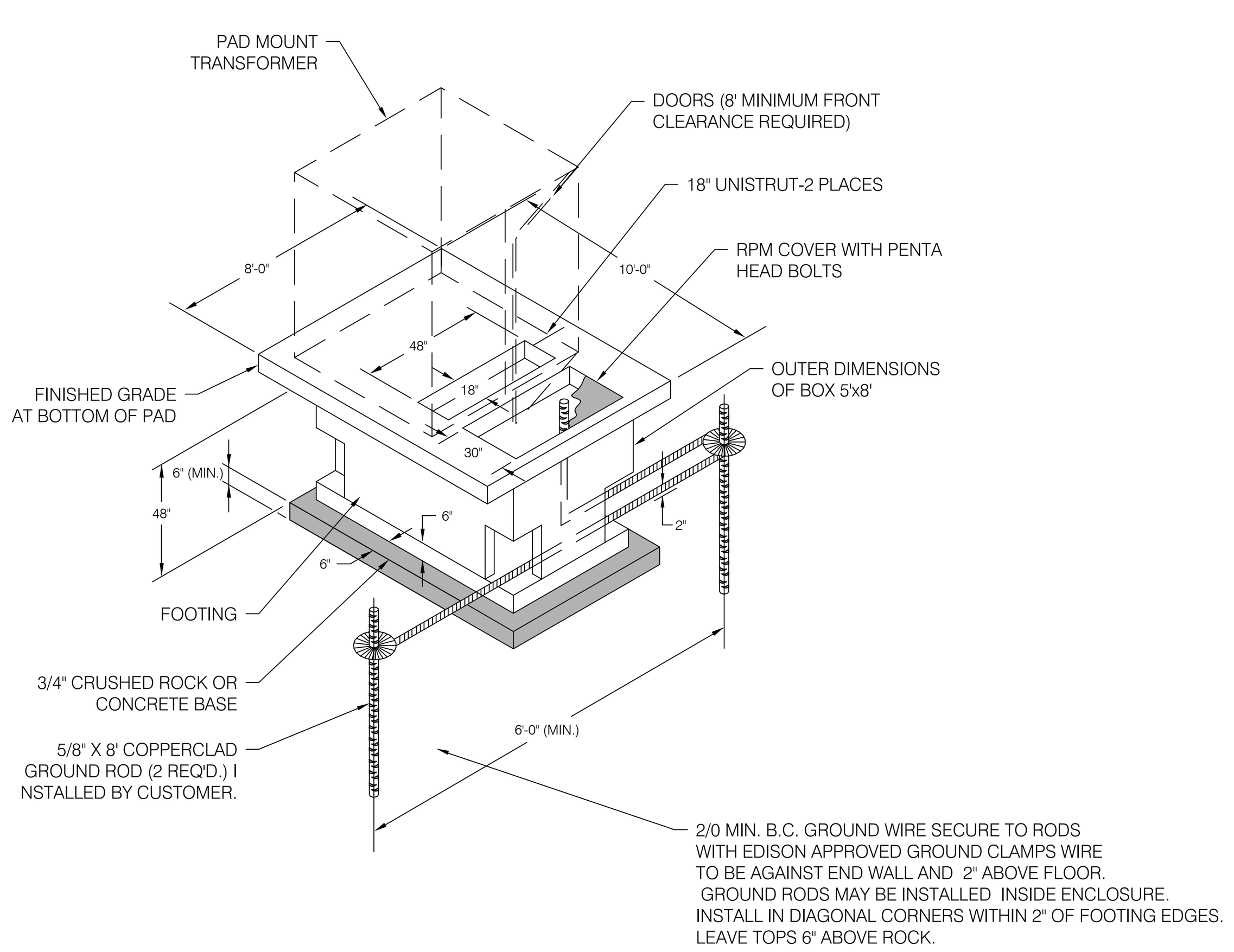
5 DUCTBANK BUILDING A - 6 CONDUITS
NO SCALE



GENERAL NOTES

1. SPACING SHALL BE 8 FEET MAXIMUM.

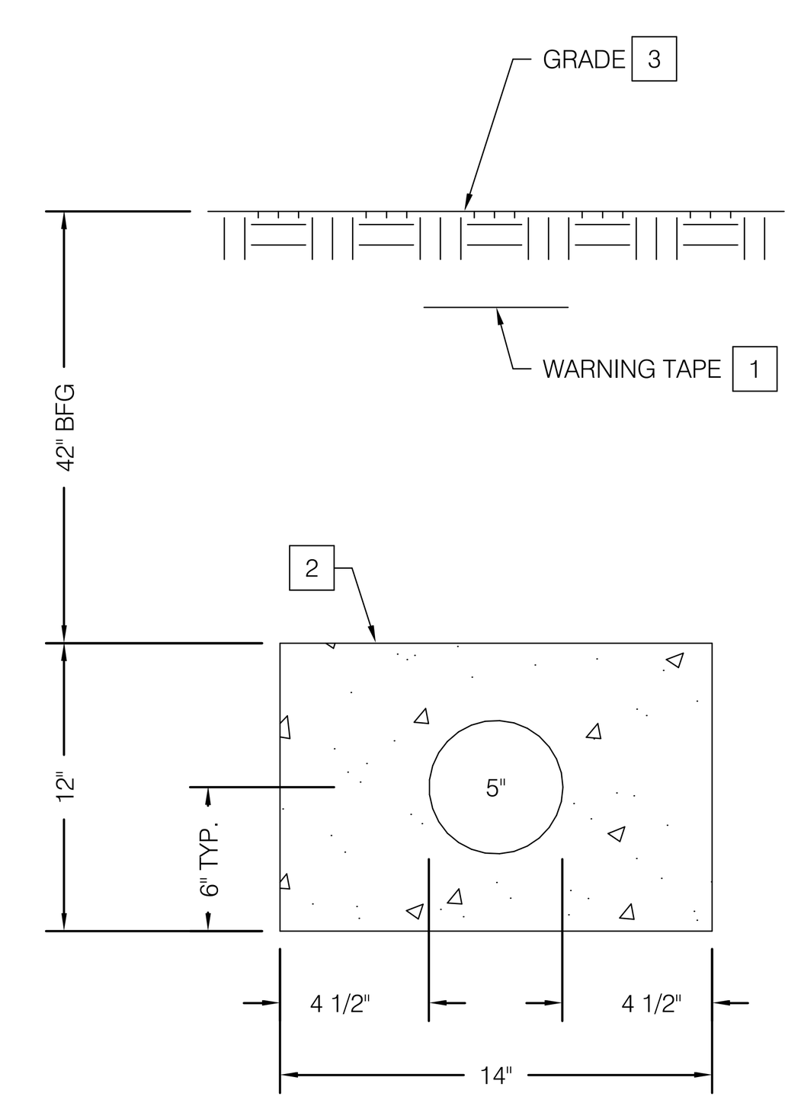
4 SURFACE MOUNTED CONDUIT ON CONCRETE WALL
NO SCALE



NOTES

1.	MASTIC REQUIRED AT JOINTS.
2.	SIDE OR BACK OF PAD TO BE MINIMUM 3' FROM ADJACENT BUILDING SURFACE. MAY BE 2' IF BUILDING SURFACE IS NONCOMBUSTIBLE.
3.	MINIMUM EXCAVATION INCLUDING ROCK 66" X 102" X 54" DEEP.
4.	GROUNDING MATERIALS FURNISHED AND INSTALLED BY CONTRACTOR.

3 TRANSFORMER PAD
NO SCALE



NOTES

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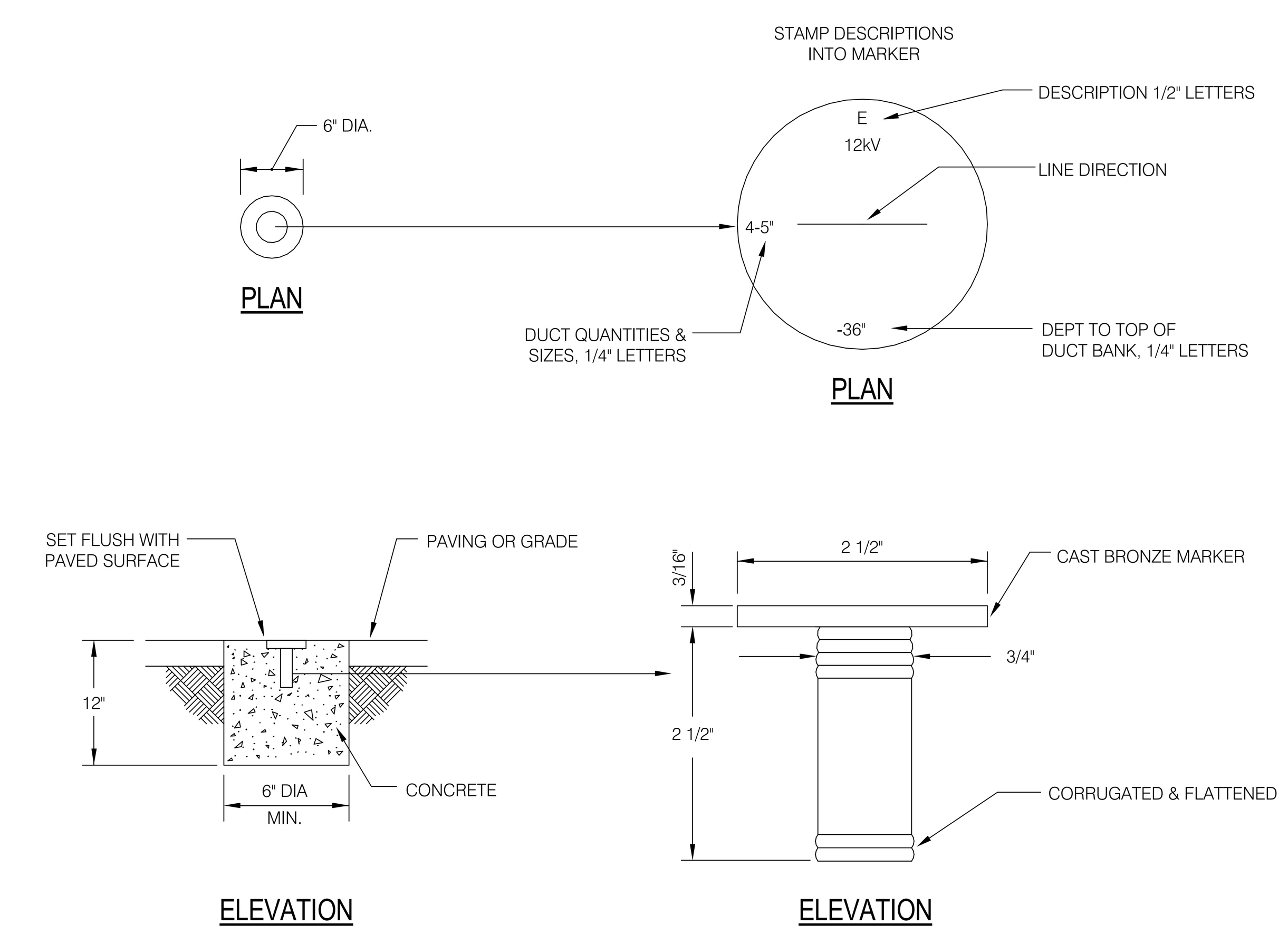
3	RESTORE AREAS AND SURFACE AT AREAS DISTURBED TO MATCH EXISTING ADJACENT MATERIALS. REESTABLISH ORIGINAL GRADES.

2 MV DUCTBANK
NO SCALE



NOTES

1.	THE TOP OF EACH MARKER SHALL BE MACHINED FLAT READY FOR STEEL STAMPING OR ENGRAVING, AND MAY HAVE A 45 DEGREE CHAMFER.
2.	INSTALL A UTILITY MARKER AT THE FOLLOWING LOCATIONS: (A) CHANGE OF DIRECTION. (B) ALL BRANCH DUCTS. (C) EVERY 100' STRAIGHT RUN. (D) WHERE DUCTS ENTER A BUILDING.

1 CONDUIT DUCT BANK - STUB OUT MARKER
NO SCALE

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LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2025 RENEWAL DATE STATE OF CALIFORNIA

A# 03-123205 INC: 01

CONSULTANTS

P2S ENG
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p2sinc.com

REGISTERED PROFESSIONAL ENGINEER BRYANT M. FRANCO No. E22020 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

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SHEET TITLE

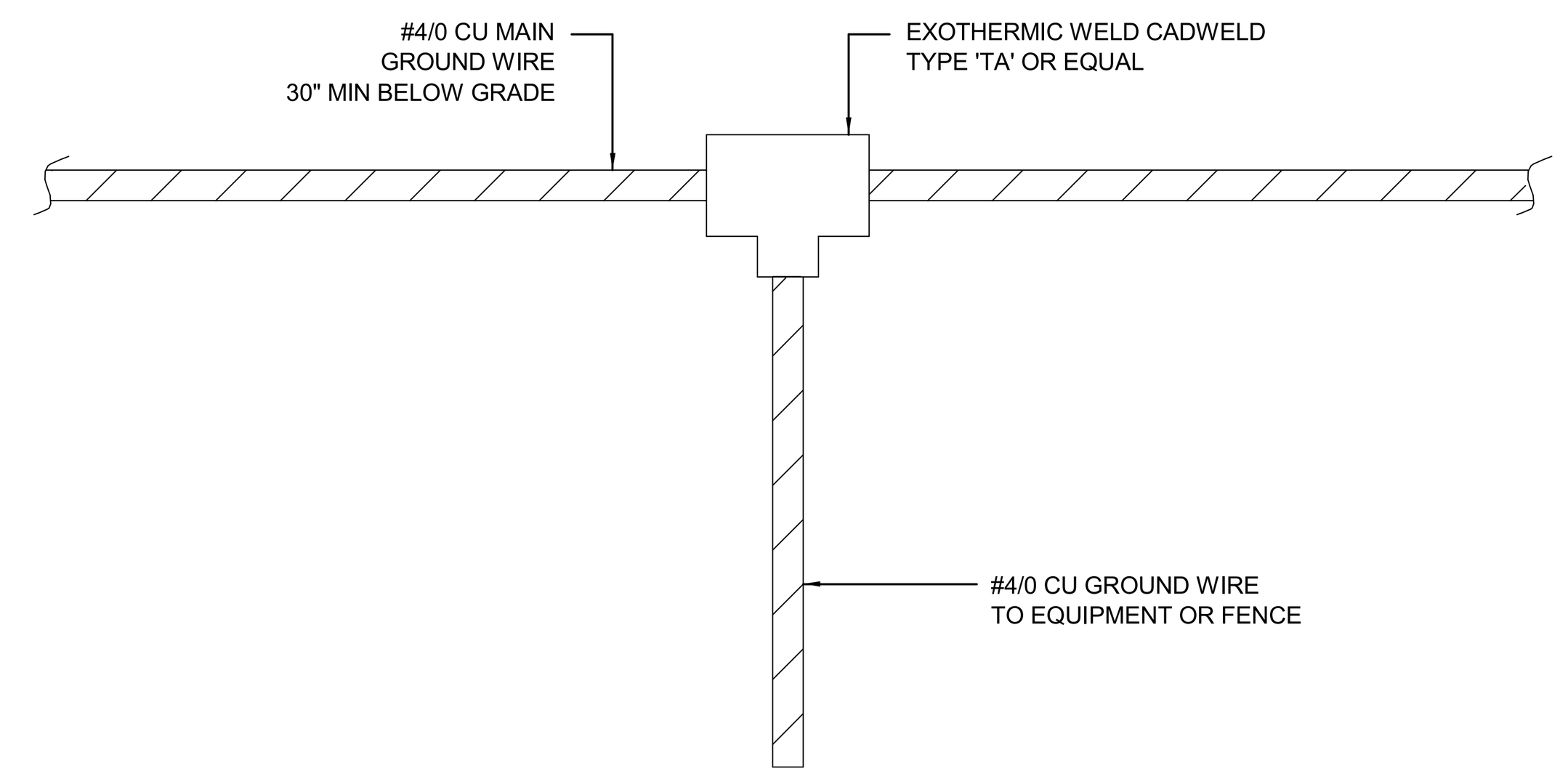
DETAILS

SHEET NUMBER

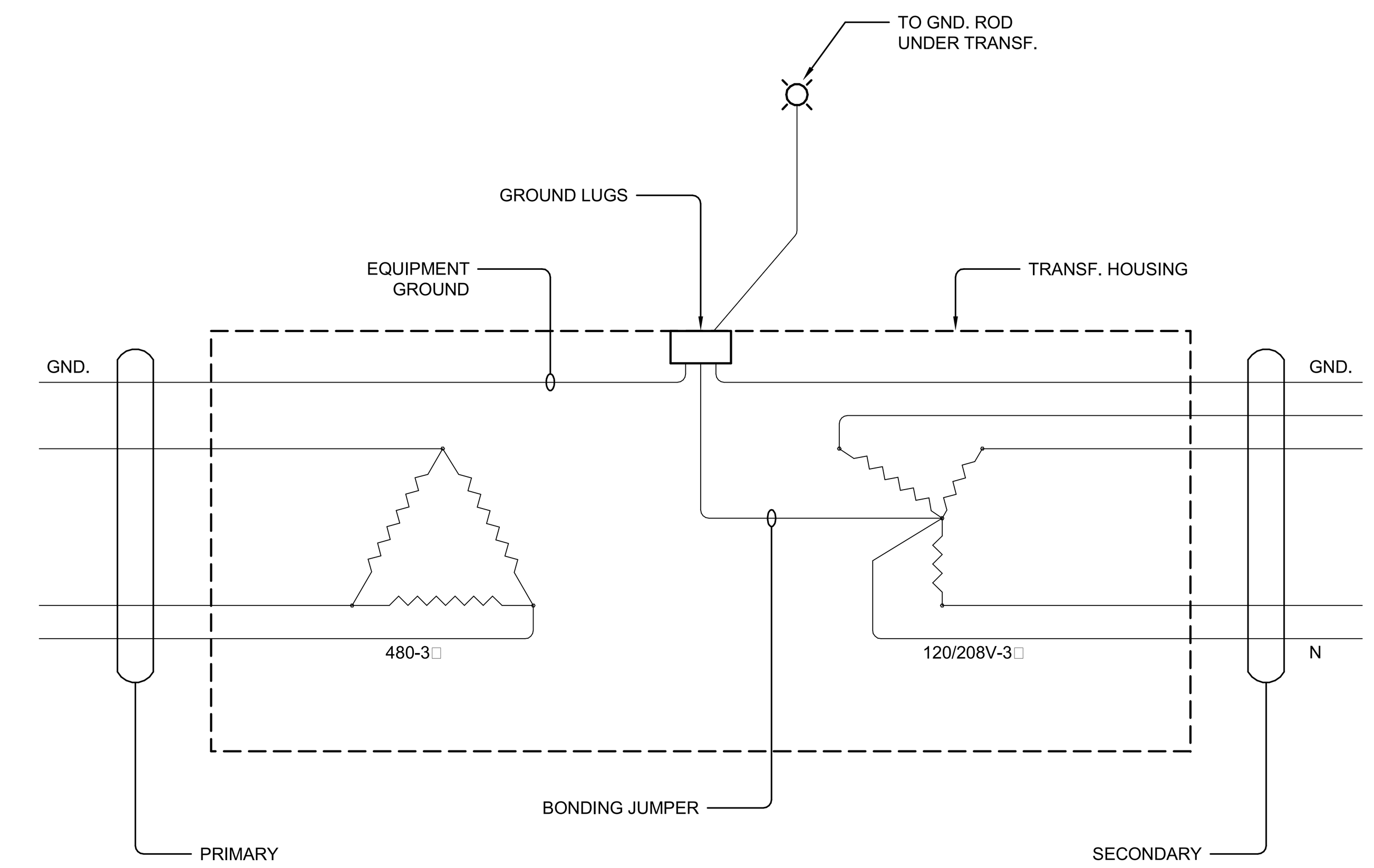
E7.02-01

CONSTRUCTION DOCUMENTS

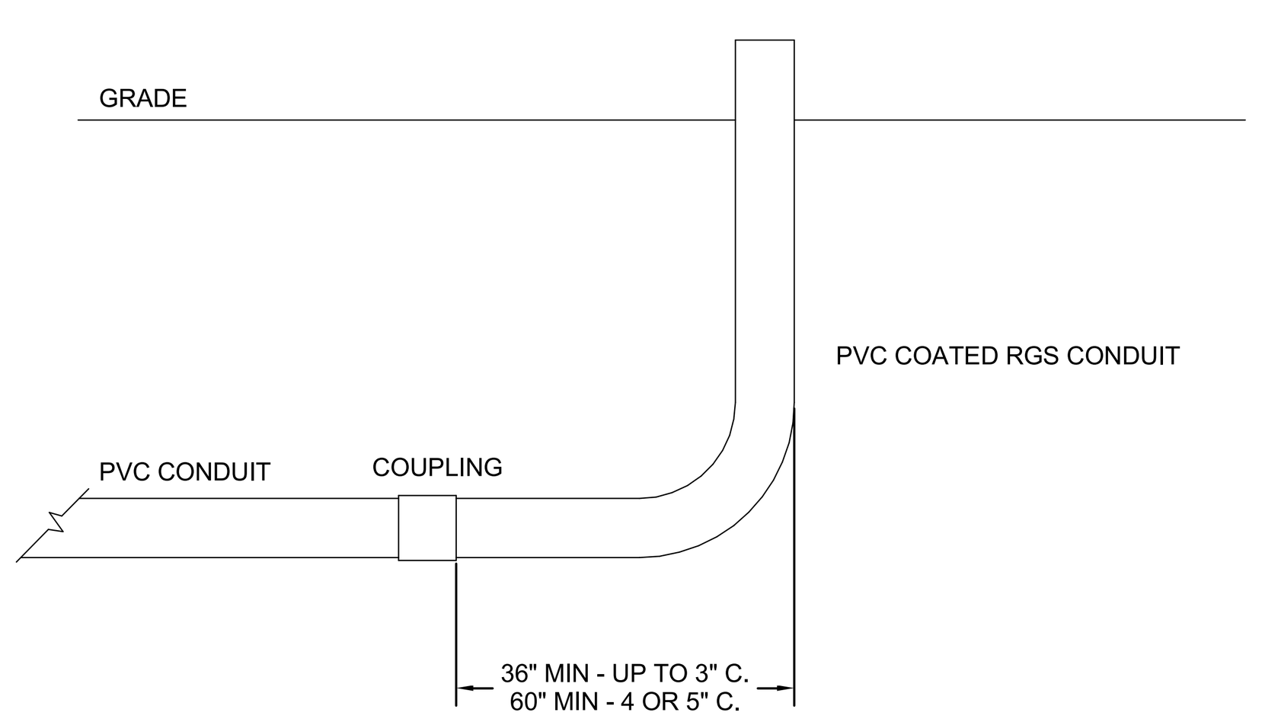
8/18/2023 12:50:35 PM Autodesk Docs://Compton College Student Housing/Compton College Student Housing_MEP.rvt



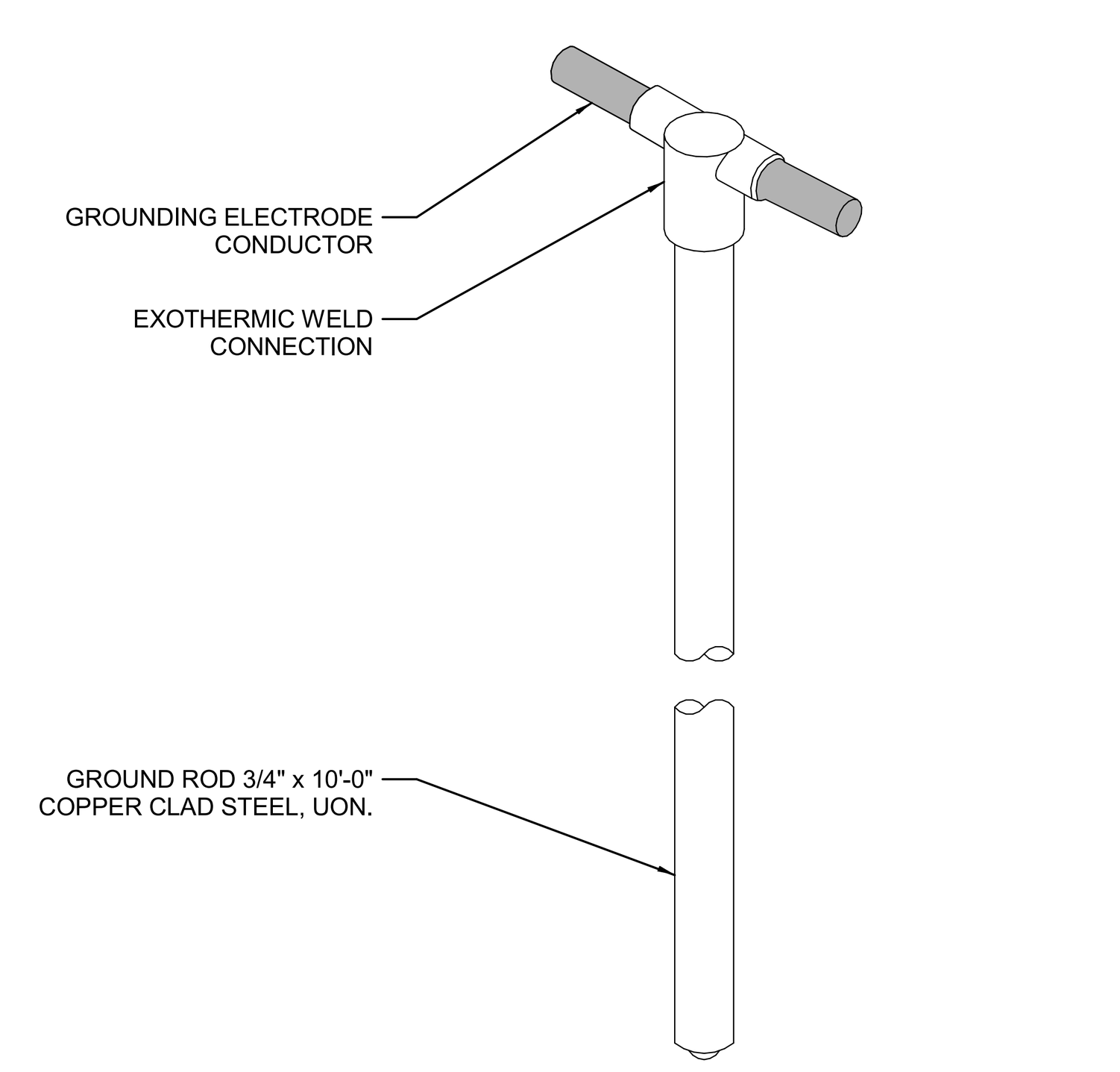
4 GROUND CONDUCTOR
NO SCALE



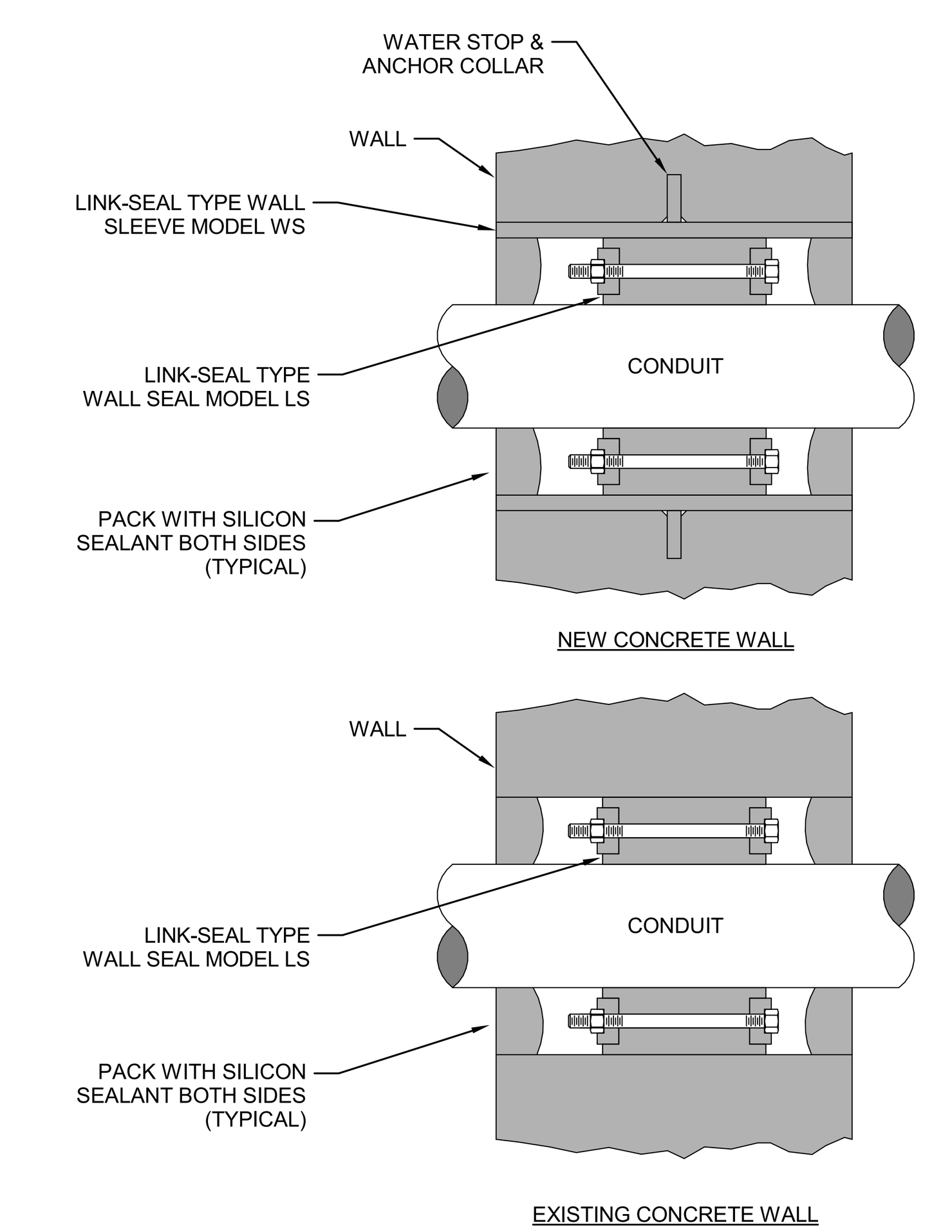
2 TRANSFORMER GROUNDING
NO SCALE



5 CONDUIT RISER
NO SCALE



3 GROUND ROD
NO SCALE



1 CONDUIT PENETRATION THRU CONCRETE WALL
NO SCALE

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STATE OF CALIFORNIA

CONSULTANTS

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p2sinc.com

REGISTERED PROFESSIONAL ENGINEER
No. E2202
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD., COMPTON, CA 90221

Compton College

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DETAILS

SHEET NUMBER

E7.03.01

CONSTRUCTION DOCUMENTS

8/18/2023 7:02:56 AM Autodesk Docs://Compton College Student Housing/Compton College Student Housing_AVITS.rvt

GENERAL LEGEND

SYMBOL	DESCRIPTION
-	NOTE CALLOUT
- / -	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
1	BUILDING NUMBER
	CONCEALED CONDUIT
	EXPOSED CONDUIT
	UNDERGROUND CONDUIT
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT WITH CAP
	TELECOMMUNICATIONS PULLBOX

GENERAL NOTES

1. ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE UNIVERSITY TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS AND CURRENT MANUFACTURER AND BICSI INSTALLATION PRACTICES. THESE STANDARDS HAVE BEEN ESTABLISHED TO EXCEED ALL CURRENT CODE AND BICSI INSTALLATION PRACTICE. ANY ITEMS THAT RAISE QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND UNIVERSITY REPRESENTATIVE IN WRITING. IT IS ALWAYS A BEST PRACTICE TO PROVIDE THE AHJ WITH DETAIL ON ANY AND ALL CONSTRUCTION ITEMS THAT COULD BE QUESTIONED BY THE AHJ. THE PROJECT DOCUMENTATION PACKAGE AND ASSOCIATED UNIVERSITY STANDARD ARE NOT TO BE INTERPRETED NOR CONSIDERED AS AUTHORIZATION TO DEVIATE FROM ANY CODE OR REGULATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VALIDATE THAT THESE REQUIREMENTS WILL MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENT TO PROVIDE THE UNIVERSITY WITH A MINIMUM 25-YEAR SCS EXTENDED MATERIALS WARRANTIES.

2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS, THE DOCUMENT WHICH PRESCRIBES AND ESTABLISHES THE COMPLETE JOB AS PER MANUFACTURER OR THE HIGHER STANDARD SHALL PREVAIL. ALL SUCH DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE UNIVERSITY REPRESENTATIVE IN WRITING IMMEDIATELY UPON DISCOVERY.

3. OMISSIONS FROM THE DRAWINGS OR FROM THE SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT FOR THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND UNIVERSITY REPRESENTATIVE UPON IDENTIFICATION OF SUCH OMISSIONS, MISDESCRIPTION, AND UNCLEAR DIRECTIONS IMMEDIATELY. THE CONTRACTOR SHALL PERFORM ALL PROJECT TASKS AND ASSEMBLY BUILDS AS PER BICSI STANDARDS AND MANUFACTURER'S REQUIREMENTS ALONG WITH COORDINATING AND WORKING WITH THE UNIVERSITY TO CORRECT SUCH DOCUMENTATION ERRORS.

4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON THEIR RECEIPT AND PROMPTLY NOTIFY THE UNIVERSITY OF ANY DISCREPANCIES. THIS INCLUDES BUT NOT LIMITED TO, DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS, OR DRAWINGS AND MANUFACTURER INSTALLATION INSTRUCTIONS THAT WILL CAUSE EXTENDED WARRANTY ISSUES, OR DRAWINGS AND GOVERNING CODES AND BEST PRACTICES. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND UNIVERSITY REPRESENTATIVE ANY DISCREPANCIES BETWEEN DRAWINGS AND HOW THE CONTRACTOR NORMALLY DELIVERS THE SERVICES DESCRIBED IN THE DRAWINGS OR SPECIFICATIONS.

5. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE NEW AND FREE FROM ANY KNOWN DEFECT. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL (UL™) LISTING, CLASSIFIED, AND/OR PERFORMANCE VERIFIED MARK OR FROM A UNIVERSITY APPROVED ALTERNATIVE TESTING ORGANIZATION. ALL MATERIALS SHALL BE INSTALLED AND USED IN THE MANNER FOR WHICH THE MANUFACTURER INTEND THEM FOR. THIS APPLIES FOR BOTH PIECE PARTS AND COMPLETE FUNCTIONING ASSEMBLIES.

6. CONTRACTOR IS REQUIRED TO RECEIVE WRITTEN APPROVAL FOR ALL RECOMMENDED AND REQUIRED WORK DEVIATIONS AND CLARIFICATIONS TO THE PLANS AND SPECIFICATIONS OF THIS PROJECT BY THE UNIVERSITY AND ITS REPRESENTATIVES PRIOR TO ANY FIELD ACTIVITY.

7. ALL WORK MUST BE COMPLETED IN AS PER MANUFACTURER INSTALLATION REQUIREMENTS AND BICSI INSTALLATION PRACTICES. THE UNIVERSITY DEMANDS THE UTMOST PROFESSIONALISM WHEN WORK IS BEING PERFORMED AT EITHER UNIVERSITY CAMPUS AND HOLDS ALL CONTRACTORS TO THAT LEVEL OF PROFESSIONALISM. THE WORK SITE SHALL BE KEPT CLEAN AND FREE FROM DEBRIS. IT IS EVERY CONTRACTOR AND ALL THEIR REPRESENTATIVE'S RESPONSIBILITY TO GUARD AGAINST ANY DAMAGE TO UNIVERSITY PROPERTY AND THE IMMEDIATE REPAIR IF ANY DAMAGE IS CAUSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE AS PART OF THE PUNCH-LIST PROCESS.

8. THE CONTRACTOR SHALL NOT BORE, NOTCH, OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE UNIVERSITY, ARCHITECT, AND STRUCTURAL ENGINEER. WITH PERMISSION FROM THE ABOVE AND PRIOR TO ALL CUTTING, DRILLING, NOTCHING, CORING, ETC. OF CONCRETE STRUCTURE AND FACADE THESE SURFACES SHALL BE X-RAYED OR GROUND PENETRATING RADAR USED TO ACCURATELY LOCATE REBAR, POST-TENSION CABLES & RODS, CONDUITS, AND ANY OTHER EMBEDDED POTENTIAL OBSTRUCTIONS TO ENSURE THAT NO DAMAGE IS CAUSED TO ANY STRUCTURAL REINFORCEMENTS.

9. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS WITH INFORMATION INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATION SECTIONS WHERE TELECOM WORK INTERFACES WITH OTHER TRADES.

10. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN WORKING IN AREAS WITH EXISTING CEILINGS AND SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILES WITHOUT DAMAGING OR SOILING THE CEILING TILES. CHIPPED, DAMAGED, CRACKED, OR BROKEN TILES ARE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE WITH LIKE TILES.

11. ALL FOOTAGES IDENTIFIED ON DRAWINGS OR SCALED OFF OF DRAWINGS ARE TO BE CONSIDERED ESTIMATES AND ARE REQUIRED TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO ORDERING OF MATERIAL.

12. ALL CABLE TRAYS, LADDER (TYPE) RACKING, “BASKET TYPE TRAY, CONDUIT & SLEEVES, EQUIPMENT RACKS, PROTECTION PANELS, AND CABLE SHEATHS SHALL BE BONDED TO AN APPROVED TELECOMMUNICATIONS BONDING ASSEMBLY.

13. ACCORDING TO TIA STANDARDS AND BICSI METHODOLOGIES PULL-BOXES LOCATED WITHIN A STRUCTURE ARE TO BE PLACED AT 100' INCREMENTS AND PROPERLY SPACED WITHIN RUNS OF MORE THAN 150'. PULL-BOXES ARE TO BE PLACED IN CONDUIT RUNS THAT EXCEED A MAXIMUM OF 180-DEGREES IN CHANGES OF DIRECTION. TELECOMMUNICATIONS PULL-BOXES ARE TO BE SIZED AT A MINIMUM OF TWELVE (12) TIMES THE DIAMETER OF THE LARGEST CONDUIT. PULL-BOXES SHOULD NOT BE USED FOR CHANGES OF DIRECTION. THESE STANDARDS ARE TO BE ADHERED TO WHERE EVER PRACTICAL AND ANY DEVIATION TO THESE STANDARDS REQUIRES A SHOP-DRAWING, IF DISCOVERED DURING THE SUBMITTAL PHASE, TO REMEDIATE THE ISSUE OR BY AN RFI DURING THE CONSTRUCTION INSTALLATION PHASE. THE UNIVERSITY MAY ELECT TO INCREASE THE CONDUIT SIZE OR QUANTITY OF CONDUITS TO MITIGATE THE ISSUE FOR THE EXCESS LENGTH, ADDITIONAL QUANTITY OF CHANGES OF DIRECTION, AND/OR THE REDUCED SIZE OF PULL-BOXES WITHIN THE GIVEN PATHWAY. THE CONTRACTOR IS REQUIRED TO HAVE APPROVAL IN WRITING PRIOR TO ANY ROUGH-IN WORK OR MATERIAL PROCUREMENT.

14. AS A STANDARD, ALL INTRA-BUILDING PATHWAYS SHALL HAVE A MINIMUM OF 25% AVAILABLE CAPACITY AT THE SCHEDULED END OF THE PROJECT. SHOULD THIS PERCENTAGE NOT BE ACHIEVABLE, THIS ISSUE MUST BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE UNIVERSITY REPRESENTATIVE.

15. USE “J” HOOKS FOR STATION CABLE DISTRIBUTION IN OPEN CEILING ENVIRONMENTS IS ACCEPTABLE TO THE UNIVERSITY AS LONG AS THE FOLLOWING PARAMETERS ARE MET. DO NOT USE CEILING SUPPORT WIRE OR CEILING HANGERS. DO NOT USE SUPPORTS FOR ANY OTHER BUILDING SERVICES UNLESS PRIOR WRITTEN APPROVAL FOR THEIR USE IS GIVEN AND VERIFIED WITH PROJECT STRUCTURAL ENGINEER. NEVER IS IT ACCEPTABLE FOR CABLING TO IMPEDE OR HINDER THE ACCESSING OF THE ABOVE CEILING SPACE OR ANY ABOVE CEILING MOUNTED EQUIPMENT. CABLES ARE NOT TO BE WRAPPED AROUND ANY BUILDING STRUCTURAL SUPPORTS OR BUILDING SERVICES. ALL APPROPRIATE UNIVERSITY AND BICSI INSTALLATION PRACTICE CLEARANCES FROM FIXTURES, CONTROLS, AND ACCESS DEVICES OF ANY KIND ARE TO BE ADHERED TO. CABLING IS NEVER TO RUN THROUGH OR IMPEDE THE OPERATION OF ANY AIR-HANDLING DUCTS OR DAMPERS.

16. WHERE PATHWAY CONSISTS OF MULTIPLE CONDUITS OR SLEEVES, A PATHWAY MUST BE FILLED TO CURRENT TIA AND BICSI INSTALLATION RECOGNIZED MAXIMUM FILL BEFORE UTILIZING THE NEXT VACANT OR PARTIALLY FILLED PATHWAY.

17. OVERHEAD AND WALL MOUNTED LADDER (TYPE) RACKING INSTALLATION SHALL MATCH THE DRAWINGS AS CLOSELY AS POSSIBLE AND REQUIRES A SHOP DRAWING FOR EACH ROOM LOCATION. THE PACKAGE IS TO INCLUDE A BILL OF MATERIALS WITH PART NUMBERS FROM RACKING MANUFACTURER FOR MOUNTING AND CONNECTION PIECE PARTS. PRIOR TO ANY ROUGH-IN WORK BEING PERFORMED THESE SUBMITTALS MUST BE APPROVED BY THE UNIVERSITY REPRESENTATIVE.

18. ALL CABLING AND THEIR PATHWAYS PASSING THROUGH A RATED FIRE OR SMOKE BARRIER MUST BE PROPERLY SLEEVED AND FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP ASSEMBLIES. FIRESTOP ASSEMBLIES ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS FOR THE TYPE OF BARRIER, PATHWAY SIZE, AND QUANTITY OF CABLES THE FIRESTOP ASSEMBLY IS BEING INSTALLED FOR. CONTRACTOR IS REQUIRED TO MAINTAIN TRAINING RECORDS FOR ALL STAFF PERFORMING FIRESTOP ASSEMBLY INSTALLATION WORK.

19. CABLE PULLING - LINE/ROPE/TAPE SHALL BE PLACED IN ALL NEW CONDUITS. ALL UNUSED CONDUITS SHALL ALSO BE CAPPED AND/OR PROPERLY FIRE STOPPED IN A MANNER APPROVED BY THE UNIVERSITY AND/OR THE AHJ.

20. CONTRACTOR TO COORDINATE WAO AND SUPPORTING CONDUIT WITH THE ELECTRICAL CONTRACTOR WHERE THE ELECTRICAL CONTRACTOR IS A DIFFERENT ORGANIZATION THAN LOW-VOLTAGE CABLING/CONDUIT CONTRACTOR FOR PROPER PLACEMENT.

21. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED FEET AT A MINIMUM EVERY FIVE FEET.

22. ALL STATION CABLES SHALL BE TERMINATED ON THE SAME FLOOR AS THE FLOOR SERVING BDF/IDF UNLESS OTHERWISE NOTED IN THESE DRAWINGS.

23. ALL STATION CABLING IS TO BE MECHANICALLY PROTECTED IN PLACE UNLESS OTHERWISE IDENTIFIED IN THESE DRAWINGS, BY A CONTRACT CHANGE RECORD, OR BY A RFI RESPONSE FROM THE UNIVERSITY REPRESENTATIVE IN WRITING DIRECTING SURFACE-MOUNT EXPOSED AS THE CABLE INSTALLATION MEANS.

24. ALL STATION CABLES SHALL BE TESTED AND DOCUMENTED USING RECOGNIZED MANUFACTURER INSTALLATION REQUIREMENTS AND BICSI INSTALLATION PRACTICES. UTP (CATEGORY) CABLE TESTING RESULTS SHALL BE ONE TEST RECORD FOR EACH CABLE AND THE RECORD MUST INCLUDE THE UNIVERSITY'S APPROVED CABLE IDENTIFICATION STANDARD NAMING/NUMBERING SCHEME. OPTICAL FIBER TESTING SHALL FOLLOW ALL UNIVERSITY AND MANUFACTURER INSTALLATION PRACTICES. COAX TESTING SHALL FOLLOW BOTH UNIVERSITY AND THE ANSI/SCTE CABLE TESTING STANDARDS & BEST PRACTICES, INCLUDING BUT NOT LIMITED TO; ANSI/SCTE - 10-2014, 40-2011, 44-2010, 47-2007, 48-3-2011.

25. THE UNIVERSITY REQUIRES A ONE (1) METER SLACK LOOP FOR ALL WAO SUPPORTED BY OPEN CEILING CABLE DISTRIBUTION. THE SLACK LOOP MUST BE SUPPORTED ABOVE THE WAO IN NEAT AND REPEATABLE FASHION THAT MEETS BOTH BICSI INSTALLATION AND MANUFACTURER PRACTICES.

26. ALL STATION OUTLETS, WAO, AND TERMINATION POINTS UTILIZED UNDER THIS PROJECT SCOPE SHALL BE PROPERLY LABELED AND IDENTIFIED USING THE STANDARD UNIVERSITY INTERNAL DISTRIBUTION NAMING/NUMBERING SCHEME, IDENTIFIED IN THIS DRAWING SET. ALL LABELS ARE TO BE MACHINE GENERATED AND AN EXCEL TYPE MATRIX CREATED DEFINING LOCATION OF BOTH ENDS OF EACH LABELED CABLE. AS-BUILT CLOSEOUT PACKAGE MUST INCLUDE THESE STATION AND TERMINATION POINTS IDENTIFIED ON FLOOR PLANS FOR EACH LEVEL/FLOOR IN ADDITION TO THE STATION CABLING MATRIX. THE SAME CABLE IDENTIFICATION IS ALSO REQUIRED TO BE INCLUDED ON EACH CABLE TESTED RECORD BOTH HARD AND SOFT-COPY RECORD.

27. INCLUDED AS PART OF THE CABLING AS-BUILT DOCUMENTATION PACKAGE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TO THE UNIVERSITY THE ADD ON TO THE CURRENT STRUCTURED CABLING SOLUTION MANUFACTURER'S 25-YEAR EXTENDED WARRANTY CERTIFICATE FOR THIS PROJECT.

28. THE WAO UTP 8-CONDUCTOR JACKS ARE DESCRIBED WITHIN THIS DOCUMENT SET AS RJ-45 JACKS/INSERTS. THE DESIGNERS ARE AWARE THAT ABBREVIATION RJ-45 IS A FCC - REGISTERED JACK WITH 8-CONDUCTORS AND DESCRIPTION IN THIS DOCUMENT SET IS FOR A UTP CATEGORY CABLE RATED JACK/INSERT AND NOT FOR FCC INTERFACE JACKS.

29. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE USED IN THE DRAWING SET CURRENTLY, BUT ARE THERE, SHOULD THE SCOPE GROW TO INCLUDE SUCH WORK.

30. THE CONTRACTOR SHALL PROVIDE WIRE GUARDS FOR ALL EXPOSED AUDIO, VISUAL, AND NETWORK DEVICES LOCATED IN AREAS THAT CAN BE SUBJECT TO VANDALISM. FOR CLARIFICATION THE CONTRACTOR SHALL DISCUSS WITH CONSTRUCTION MANAGER.

31. ALL CONDUITS CROSSING BUILDING SEISMIC SEPARATIONS OR EXPANSION JOINTS SHALL BE PROVIDED WITH APPROVED CONNECTORS. REFER TO ARCHITECTURAL PLANS FOR ALL EXPANSION JOINT LOCATIONS.

32. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH CABLE TRAY AND EQUIPMENT IN BDF, IDF, AND ALL A/V ROOMS/SPACES TO MAINTAIN REQUIRED LIGHTING LEVELS WITH ALL EQUIPMENT IN PLACE.

33. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS OR SHOP DRAWINGS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE FOR THE UNIVERSITY.

34. UNIVERSITY STANDARDS, MANUFACTURER, BICSI INSTALLATION PRACTICES FOR PROJECT SUBMITTALS AND SHOP DRAWINGS ARE IDENTIFIED IN SPECIFICATIONS SECTIONS LISTED IN DIVISION 26, 27, AND 28, OF THE PROJECT CONTRACT DOCUMENTATION SET.

SCOPE OF WORK

- INSTALL UNDERGROUND PATHWAYS FROM EXISTING UNDERGROUND PULLBOX TO TR ROOM LOCATED AT BUILDING A.
- INSTALL UNDERGROUND PATHWAY FROM TR ROOM LOCATED AT BUILDING A TO TR ROOM LOCATED AT BUILDING B.

SHEET INDEX

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
#	NUMBER (IDENTIFICATION) OR COUNT
(#)	NUMBER IS QUANTITY
A OR AMP	AMPERES
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
ALS	ASSISTIVE LISTENING SYSTEM
AP	ACCESS POINT
ARCH	ARCHITECT, ARCHITECTURAL
ASP	ALUMINUM, STEEL, POLYETHYLENE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVC	AUDIOVISUAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE
B/BUR	BURIED
BDF	BUILDING DISTRIBUTION FRAME
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
C.O.	CONDUIT ONLY – WITH PULL WIRE
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CB	CONDUIT BANK
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CMP	COMMUNICATIONS PLENUM (CABLE JACKET RATING)
CMR	COMMUNICATIONS RISER (CABLE JACKET RATING)
CP	CONSOLIDATION POINT
CSC	CAPTURED SCREW CONNECTOR
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM

ABBREVIATION	DESCRIPTION
dB	DECIBEL
DC	DIRECT CURRENT
DIST	DISTRIBUTION
DMARC	POINT OF DEMARCATION BETWEEN UTILITIES OR BETWEEN UTILITIES AND OWNER PREMISE EQUIPMENT
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EA	EACH
EF	ENTRANCE FACILITY
ELEC	ELECTRIC
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	EMERGENCY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EQUIP	EQUIPMENT
EXIST/(E)	EXISTING
FB	FLOOR BOX
FDC	OPTICAL - FIBER DISTRIBUTION CENTER
FDR	FEEDER
FEXT	FAR END CROSSTALK
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FOC	FIBER OPTIC CABLE
FPS	FRAMES PER SECOND
FT	FEET
G.C.	GENERAL CONTRACTOR
GA	GAUGE
GND	GROUND (MECHANICAL CONNECTION TO EARTH)
GRC	GALVANIZED RIGID CONDUIT
H., W., D., L.	HEIGHT, WIDTH, DEPTH, LENGTH

ABBREVIATION	DESCRIPTION
IC	INTERCOM
ID	INSIDE DIAMETER OR INSIDE DIMENSION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN	INCHES, MEASUREMENT
IR	INFRARED
ISP	INTERNET SERVICE PROVIDER
JB	JUNCTION BOX
LTG	LIGHTING
M	METER
MAC	MEDIA ACCESS CONTROL
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE (OSP CONFINED SPACE) – (A.K.A. MANHOLE)
MM	MULTI-MODE - REFERRING TO OPTICAL FIBER CORE/CLADDING PROPERTIES
MTG	MOUNTING
MTU	MULTI TENANT UNIT
N	NORTH
N.T.S.	NOT TO SCALE
ND	NETWORK DEVICE
NE	NETWORK ENCLOSURE
NEXT	NEAR END CROSSTALK
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OD	OUTSIDE DIAMETER
OF	OPTICAL FIBER
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX

ABBREVIATION	DESCRIPTION
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PPF	PIXELS PER FOOT
PR	PAIR
PSU	POWER SUPPLY UNIT
PTP	POINT-TO-POINT
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
RMC	RIGID METAL CONDUIT
RMS	RACK MOUNTED SPACE
RNC	RIGID NONMETALLIC CONDUIT
RU	RACK UNIT
S	SOUTH
SAC	SECURITY AND ACCESS CONTROL
SCH	SCHEDULE
SCS	STRUCTURED CABLING SOLUTION
ScTP	SCREENED TWISTED PAIR
SF	SQUARE FEET
SM	SINGLE-MODE REFERRING TO OPTICAL FIBER CORE/CLADDING PROPERTIES
SNR	SIGNAL TO NOISE RATIO
SPD	SURGE PROTECTION DEVICE
SQ	SQUARE
STP	SHIELDED TWISTED-PAIR
SW	SWITCH
SYS	SYSTEM
TB	TERMINAL BLOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE

ABBREVIATION	DESCRIPTION
TCP/IP	TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
TE	TELECOMMUNICATIONS ENCLOSURE
TEL	TELEPHONE
TELCO	TELEPHONE UTILITY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TP	TRANSITION POINT
TR	TELECOMMUNICATIONS ROOM OR SPACE
TV	TELEVISION
TYP	TYPICAL
UD	UNDERGROUND DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS OR VOLTAGE
V-A	VOLT-AMPERES
W	WATTS
W/	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET / WORK STATION OUTLET
WBS	WORK BREAKDOWN STRUCTURE
WiFi	WIRELESS FIDELITY (LOCALIZED WIRELESS USER ACCESS INTERNET/NETWORK)
WP	WATERPROOF OUTLET BOX
WS	WORK STATION

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

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SS ☑ FLS ☑ ACS ☑
DATE: 10/02/2023

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RENEWAL DATE
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
BRYANT M. TRAM
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ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

COMPTON COLLEGE
STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

1111 E. ARTESIA BLVD, COMPTON, CA 90221

Compton College

ISSUED		
#	DATE	DESCRIPTION
	09/05/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREV. AND SHEET INDEX

SHEET NUMBER

T0.01-01

CONSTRUCTION DOCUMENTS

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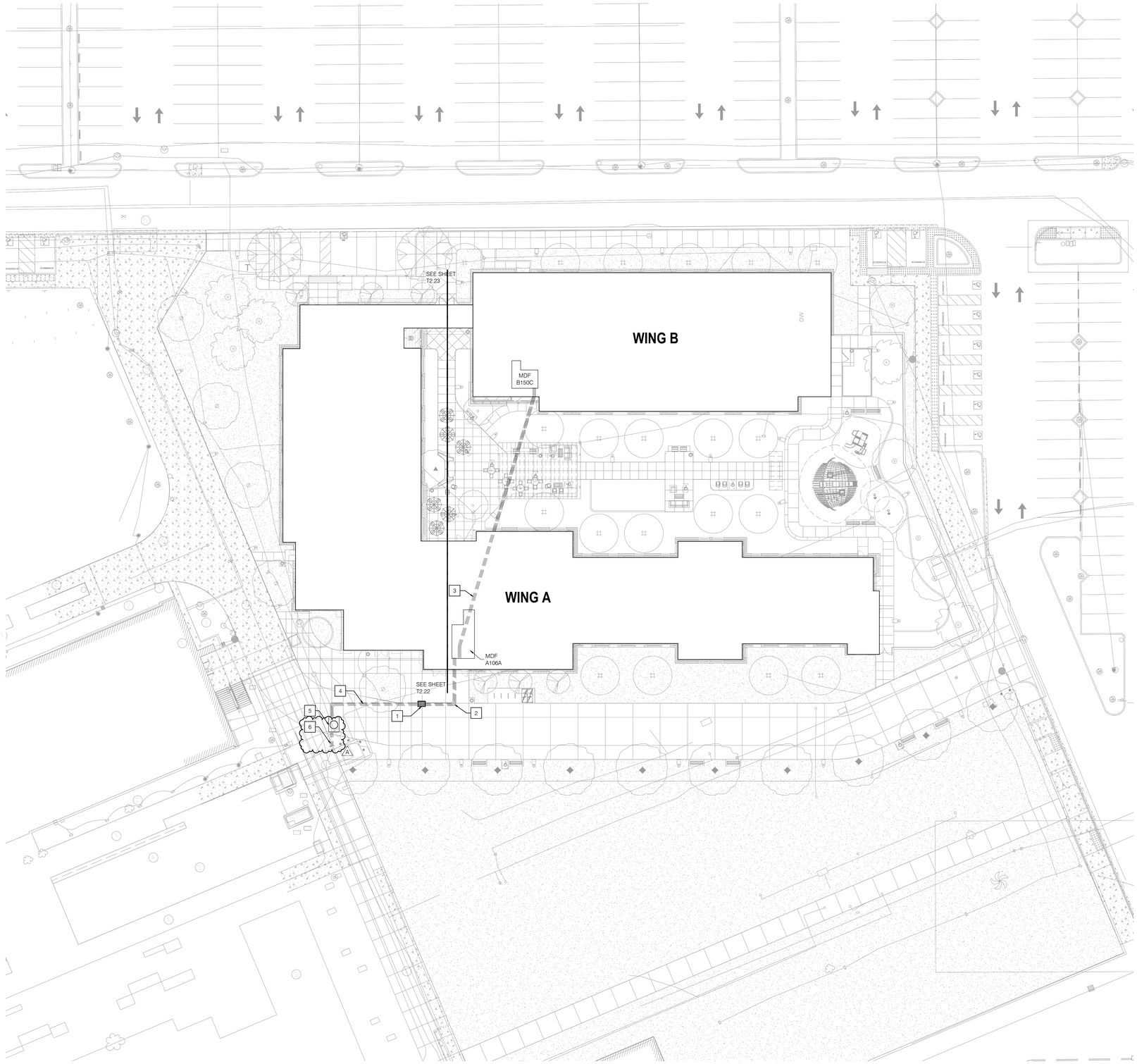

NOTES

1. NEW 2'X3' UNDERGROUND PULL BOX. REFER TO DETAIL 1/T6.01-01.
2. NEW UNDERGROUND (4)4"PVC FROM NEW 2'X3' UNDERGROUND PULL BOX STUB TO MDF A106A. REFER TO DETAIL 2/T6.01-01.
3. NEW UNDERGROUND (4)4"PVC FROM MDF A106A STUB TO MDF B150C. REFER TO DETAIL 2/T6.01-01.
4. NEW UNDERGROUND (4)4"PVC FROM EXISTING UNDERGROUND PULL BOX STUB TO NEW 2'X3' UNDERGROUND PULLBOX. REFER TO DETAIL 2/T6.01-01.
5. EXISTING COMMUNICATION UNDERGROUND PULLBOX.
6. EXISTING UNDERGROUND CONDUIT PATHWAY. PROVIDE 12-STRAND SM FIBER AND 25-PAIR COPPER BACKBONE CABLING UTILIZING THE EXISTING UNDERGROUND CONDUIT PATH FOR A DIRECT CONNECTION BETWEEN MDF A106A AND THE CAMPUS DATA CENTER IN THE MIS BUILDING.

N

SCALE: 1" = 20'
0 20

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12/31/2025
RENEWAL DATE
STATE OF CALIFORNIA

A# 03-123205 INC: 01

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PROJECT TITLE

COMPTON COLLEGE STUDENT HOUSING

INCREMENT 1 OF 2 - DEMOLITION, EARTHWORK, & UNDERGROUND UTILITIES

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Compton College

ISSUED		
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A	03/01/2024	REVISION A

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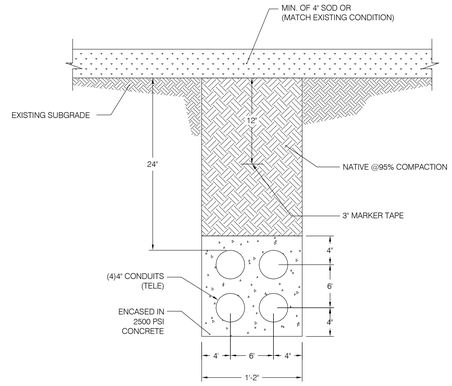
SHEET TITLE

SITE PLAN

SHEET NUMBER

T1.01-01

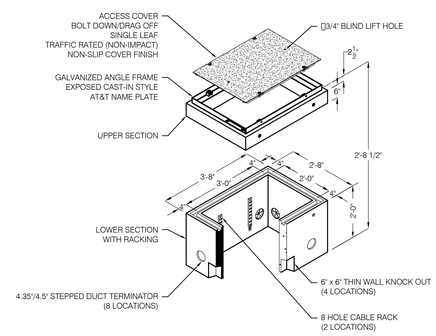
CONSTRUCTION DOCUMENTS



GENERAL NOTES	
1.	ALL PAVEMENT THICKNESSES ARE APPROXIMATE. CONTRACTOR SHALL MATCH EXISTING THICKNESS OR DIMENSIONS SHOWN, WHICHEVER IS GREATER.
2.	APPLY TACK COAT PER SPECS. PROVIDE SMOOTH TRANSITION BETWEEN NEW AND EXISTING PAVEMENT SURFACES.

2 TRENCH - (4) 4" CONDUIT

NO SCALE



1 2' x 3' PULLBOX

NO SCALE

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SHEET TITLE

DETAILS

SHEET NUMBER

T6.01-01

CONSTRUCTION DOCUMENTS