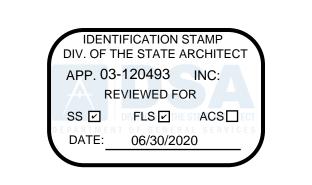
MOORPARK COLLEGE MAIN ENTRY SIGN

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

NEW SIGN RENDERING





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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DSA A# 03-120493

DSA RESUBMITTAL

MOORPARK **COLLEGE MAIN ENTRY SIGN**

613696000

COVER SHEET

G000

AERAIL VIEW

—— PROJECT LOCATION

VICINITY MAP

IvyTech Charter School

COURTESY OF GOOGLE MAPS ©

NOT TO SCALE

2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

(2018 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2013 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2018 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
- 3. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DSA REQUIREMENTS

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CCR.

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. [SEC. 4-317(c), PART 1, TITLE 24, CCR]

PROJECT INSPECTOR

A DIVISION OF THE STATE ARCHITECT (DSA) CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIES AND REQUIRED IOR CLASSIFICATION PER SECTION 4-342, TITLE 24, PART 1 CCR AND IR A-7: CLASS 3

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

SCOPE OF WORK

- WORK UNDER THIS CONTRACT INCLUDES THE FOLLOWING ITEMS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE PROJECT MANUAL, INCLUDING:
- 1. DEMOLITION OF EXISTING MONUMENT SIGN AND ASSOCIATED UTILITIES; 2. REMOVAL OF EXISTING LANDSCAPING IN VICINITY OF MONUMENT SIGN:

INSPECTOR CERTIFIED BY DSA.

- 3. CONSTRUCTION OF NEW MONUMENT SIGN WITH ELECTRONIC DISPLAY PANEL AND REQUIRED ELECTRICAL AND DATA SYSTEMS; AND
- 4. INSTALLATION OF NEW LANDSCAPING AND IRRIGATION IN VICINITY OF MONUMENT SIGN.

GENERAL NOTES

DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE, TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND DIVISION OF THE STATE ARCHITECT (DSA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

2. CONTRACTOR TO VERIFY ALL EXISTING ELEMENTS, WHETHER THEY ARE TO REMAIN, BE REMOVED, OR RELOCATED, ARE IN THE LOCATION AND IN THE CONDITION THAT THESE CONSTRUCTION DOCUMENTS AND ALL REFERENCED DRAWINGS REPRESENT.CONFIRM ALL EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338.

REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT NO EXPENSE TO

4. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER. . VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS AND CONDITIONS. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER

COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY. 8. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) OR "BY OTHERS" ON THE DRAWINGS, SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.

DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF ARCHITECT UNLESS NOTED (+/-) OR "VERIFY". ALL OTHER DIMENSIONS NOTED SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAY-OUT CONTROL

UNLESS OTHERWISE DIRECTED BY ARCHITECT. 10. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE

CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND

ORIENTATION ON PLANS. 11. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.

12. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED VERIFY DIMENSIONS AND ORIENTATION ON PLANS. 13. REFER TO THE PROJECT MANUAL FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS

AND OTHER REQUIREMENTS. 14. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PEDESTRIAN PROTECTION AS REQUIRED BY LOCAL CODE AND SPECIFICATION. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH THE SCHOOL DISTRICT FOR ACCEPTABLE ACCESS ROUTE AND TIME UNDER NO CIRCUMSTANCES SHOULD THE CONTRACTOR USE AREAS OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE SCHOOL DISTRICT. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE

15. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED

16. TAKE ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL SCHOOL

PROCEDURES. NOTIFY OWNER IN ADVANCE OF ANY SYSTEM SHUT-OFFS. MINIMIZE NOISE AND DUST GENERATION TO MAXIMUM EXTENT POSSIBLE. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT 17. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN WALKWAYS AT ANY TIME.

COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL. 18, PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE SITE TO ORIGINAL

CONDITION OF ALL EXISTING PORTIONS AFFECTED BY THE CONTRACTOR'S WORK, TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

19. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH MATERIAL MANUFACTURERS.

20. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

21. CONTRACTOR SHALL INSURE ALL CONSTRUCTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.

22. PROTECTION DURING WELDING: THE CONTRACTOR SHALL CONFORM TO TITLE 8, CCR, FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATIONS WHERE WELDING IS BEING PERFORMED, AND PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE 2016 CFC FOR REQUIREMENTS FOR ON SITE WELDING.

23. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. 24. IPE WOOD CONSTRUCTION NOTES:

25. SHALL BE STANDARD F.A.S. GRADE IPE LUMBER, NO PRE-GROOVED OR TOUNGE AND GROOVE WILL BE ACCEPTED. 26. ALL IPE SHALL BE DELIVERED TO THE SITE AND ALLOWED TO ACCLIMATE IN A FLAT, DRY STACK W/ SPACERS,

ELEVATED OFF THE GROUND AT LEAST 12" TILL ALL LUMBER HAS A MOISTURE CONTENT LESS THAN 12%. SEPARATE PLANKS WITH WOODEN SHIMS. SHALL BE COVERED WITH AN ADDITIONAL LAYER OF PLYWOOD DURING THE ACCLIMATION PROCESS. 27. IPE SHALL BE KEPT DRY UNTIL IT'S INSTALLED.

28. IPE SHALL NOT BE STORED IN AN ENCLOSED SPACE. 29. PRE-DRILL HOLES TO ENSURE PROPER ANGLE AND AVOID ALL CRACKING AND FISSURES. 30. IT IS RECOMMENDED THE CONTRACTOR USE BRAD POINT OR FOSTNER DRILL BITS FOR CLEANER HOLES. 31. USE #8 STAINLESS STEEL SELF-TAPPING SCREWS TO ATTACH IPE BOARDS TO ANGLE CLIPS. 32. APPLY SEAL AFTER ALL FRESH CUTS WITH AN END-GRAIN SEALER. IF END SEALANT TOUCHES THE FACE OF THE BOARD. WIPE CLEAN IMMEDIATELY.

33. USE ONLY A PREMIUM CARBIDE TIPPED SAW BLADE. 34. AFTER ACCLIMATION, ALL SIDES OF EACH IPE BOARD SHALL BE SEALED PRIOR TO INSTALLATION. SEALANT SHALL BE MESSMERS U.V. SEAL OR APPROVED EQUAL. SUBMIT TO ARCHITECT FOR REVIEW AND APPROVAL.

STIRRING THE MIXTURE OFTEN THROUGHOUT 36. CONTRACTOR SHALL SUBMIT SCALED SHOP DRAWINGS FOR ALL FENCE, GATE, AND WALL PANELS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. 37. SHOP DRAWINGS SHALL BE BASED ON ACTUAL BUILT DIMENSIONS OF SIGN AND PLANTER WALL. VERIFY IN THE FIELD PRIOR TO SUBMITTING SHOPS FOR REVIEW.

38. SHOP FABRICATE WHERE POSSIBLE TO LIMIT FIELD WELDING. ALL FIELD WELDS SHALL BE TREATED WITH

35. APPLY TWO COATS MINIMUM OF SEALER BY HAND WITH A BRUSH USING LIBERAL AMOUNTS OF SEALER,

TWO COATS OF ZINC RICH PRIMER. 39. GRIND SMOOTH ALL WELDS, TYP.

PROJECT DIRECTORY

PROJECT MOORPARK COLLEGE MAIN ENTRY SIGN 705 CAMPUS ROAD, MOORPARK, CA 93021

OWNER

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT 761 EAST DAILY DRIVE, CAMARILLO, CA 93010 (805) 652-5500

ARCHITECT

LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING 1300 DOVE STREET, SUITE 100 NEWPORT BEACH, CA 92660

(949) 698-1406 STRUCTURAL LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING

ELECTRICAL

(949) 698-1412

LUCCI & ASSOCIATES, INC. 3251 CORTE MALPASO, SUITE 511 CAMARILLO. CA 93012 (805) 389-6520

1300 DOVE STREET, SUITE 100

NEWPORT BEACH, CA 92660

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LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING

LANDSCAPE

LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING 1300 DOVE STREET, SUITE 100 NEWPORT BEACH, CA 92660 (949) 698-1488

DEMOLITION AND CONSTRUCTION NOTES

- VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, PLUMBING, IRRIGATION, ELECTRICAL AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF EXISTING SYSTEMS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION.
- REFER TO DOCUMENTS PREPARED BY CONSULTING ENGINEERS FOR INFORMATION REGARDING THE REMOVAL OF EXISTING CONDITIONS.
- COMPLY WITH ANSI A10.6 "SAFETY REQUIREMENTS FOR DEMOLITION" PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.

TRENCHING NOTES

PROTECT ALL UNDERGROUND UTILITIES IN PLACE. . NOTICE REGARDING EXISTING UTILITIES:

ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ARCHITECT.

THE EXISTENCE AND LOCATION OF ANY AND ALL CONDUITS, UTILITY PIPES, AND STRUCTURES SHOWN ON THIS SET OF PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS AT THE TIME OF DESIGN. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY AND ALL UTILITY LINES SHOWN ON THIS SET OF PLANS. THE CONTRACTOR FURTHER ASSUMES ANY AND ALL LIABILITY AND RESPONSIBILITY FOR THE CONDUITS, UTILITY PIPES, AND STRUCTURES SHOWN ON THIS SET OF DRAWINGS. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS STIPULATION INCLUDES THE SAFETY OF ANY AND ALL PERSONS AND PROPERTY. THE CONTRACTOR SHALL FURTHER DEFEND, IMDEMNIFY AND HOLD THE OWNER AND ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, WITH THE EXCEPTION OF LIABILITY

SHEET INDEX

01 - GENERAL G000 COVER SHEET

G001 GENERAL INFORMATION AND SHEET INDEX

C1.0 COVER SHEET - NOTES, DETAILS & SPECIFICATIONS

C1.1 **SPECIFICATIONS SPECIFICATIONS** C1.2 C1.3 **SPECIFICATIONS** C2.0 DEMOLITION PLAN C3.0 CONSTRUCTION PLAN C4.0 **GRADING PLAN**

03 - LANDSCAPE

C5.0

IRRIGATION PLAN AND LEGEND L2.0 IRRIGATION DETAILS L2.1 IRRIGATION SPECIFICATIONS PLANTING PLAN & LANDSCAPE DETAILS L3.0 PLANTING SPECIFICATIONS

EROSION CONTROL PLAN

04 - ARCHITECTURE OVERALL SITE PLAN A101 MONUMENT SIGN #1

GATE DETAILS

05 - STRUCTURA S001 STRUCTURAL GENERAL NOTES MAIN ENTRY SIGN STRUCTURE & FOUNDATION

E410

E600

TOTAL SHEET COUNT ☐ 26

E100 GENERAL NOTES, SYMBOLS, ABBREVIATIONS & DRAWING LIST E150 EXISTING ELECTRICAL SITE PLAN E200 ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE E400 ELECTRICAL PLAN NEW WORK

> ELECTRICAL PLAN ENLARGED AREA WORK ELECTRICAL DETAILS

DIV. OF THE STATE ARCHITEC APP. 03-120493 INC: REVIEWED FOR SS I FLS I ACS DATE: 06/30/2020



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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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DSA A# 03-120493

DSA RESUBMITTAL

DSA A# 03-120493

EMAN BERMANI

JEFF HATFIELD

PROJECT TEAM PRINCIPAL IN CHARGE RITA CARTER PROJECT MANAGER

> MOORPARK **COLLEGE MAIN ENTRY SIGN**

613696000

GENERAL

INFORMATION AND

SHEET INDEX

G001

GENERAL NOTES

STANDARD SPECIFICATIONS AND PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK & S.P.P.W.C), THE LATEST EDITION OF CALIFORNIA BUILDING CODE AND CITY OF MOORPARK BUILDING CODE REQUIREMENTS. 2. NO WORK SHALL BE STARTED WITHOUT A PRE-CONSTRUCTION MEETING WITH THE OWNER AND INSPECTOR.

3. THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES AND TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES AND IMPROVEMENTS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK. 4. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CIVIL ENGINEER. . IMPORTANT NOTICE — SECTION 4216/4217 OF THE GOVERNMENT CODE

REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE ANY "PERMIT TO FXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT LD. NUMBER. CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133, TWO WORKING DAYS BEFORE YOU DIG. . ANY IMPROVEMENT(S) TO BE CONSTRUCTED WITHIN PUBLIC RIGHT-OF-WAY WILL REQUIRE SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE GOVERNING AGENCY(IES). CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL APPLICABLE PERMITS AND PAYING ANY REQUIRED FEES.

7. FILLS SHALL BE COMPACTED THROUGHOUT TO AT LEAST 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL GRADE STAKES UNTIL AUTHORIZED BY SURVEYOR TO REMOVE. 9. CONTRACTOR SHALL RESTORE LIKE FOR LIKE, TO THE SATISFACTION OF THE

OWNER/ARCHITECT, ALL AREAS DAMAGED OR DISTURBED AS A RESULT OF WORK

PERFORMED PURSUANT TO THESE PLANS AT HIS/HERS OWN EXPENSE.

IO. FIELD DENSITY MAY BE DETERMINED BY THE NUCLEAR DENSITY METHOD A.S.T.M. D2922 & D3017 PROVIDED NOT LESS THAN 10% OF THE REQUIRED DENSITY TESTS UNIFORMLY DISTRIBUTED ARE BY THE SAND-CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY AND LOCATION AND APPROXIMATE ELEVATION SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE CITY ENGINEER.

1. CRUSHED AGGREGATE BASE MATERIAL SHALL CONFORM TO SUBSECTION 200-2.2 OF STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION USING MECHANICAL COMPACTING EQUIPMENT. 12. NEW CONCRETE SHALL BE CLASS 520-C-3250 (310-C-17) CONFORMING WITH S.S.P.W.C. 201-1.1.2.(UNLESS NOTED OTHERWISE)

13. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABLITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE PROPERTY INSOFAR AS MAY BE AFFECTED BY THESE OPERATIONS. ALL COSTS FOR PROTECTING, REMOVING, AND RESTORING EXISTING IMPROVEMENTS SHALL BE BORNE BY THE CONTRACTOR. 14. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE IN EFFECT AT ALL TIMES. 15. THE CONTRACTOR SHALL VERIFY ALL JOINT ELEVATIONS PRIOR TO THE REMOVAL OF PAVEMENT, CURB, GUTTER, SIDEWALK AND/OR SLOPE GRADING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO REMOVALS WITHIN THE AREA OF THE DISCREPANCIES. 16. DUST SHALL BE CONTROLLED BY WATERING TO THE SATISFACTION OF

17. WHERE THE IRRIGATION SYSTEM IN CONFLICT WITH NEW WORK NEEDS TO BE RELOCATED OR REPLACED, CONTRACTOR SHALL COORDINATE TH WATER SHUT OFF OR ANY ELECTRICAL RELATED WORK WITH OWNER 48 HOURS PRIOR COMMENCING THE WORK 18. ALL EXPOSED P.C.C. CORNERS SHALL BE ROUNDED WITH A 1/2" RADIUS. 19 ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE

BUILDING OFFICIAL UPON REQUEST. 20. CONTRACTOR TO CALCULATE HIS/HER OWN EARTHWORK QUANTITIES FOR BIDDING 21. FOR JOINTS AT NEW CURB AND SIDEWALK REFER TO S.P.P.W.C. STD. PLAN No. 112-2. ALSO SEE DETAILS ON THIS SHEET FOR ADDITIONAL INFORMATION JOINT DETAILS. 22. IF WORK IS COMMENCED DURING RAINY SEASON, CONTRACTOR SHALL SATISFY CITY

OF MOORPARK EROSION CONTROL REQUIREMENTS AND INSTALL APPROPRIATE BMPs.

APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE

OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE

LEGEND

THE INSPECTOR.

FINISH SURFACE ELEVATION TOP OF CURB ELEVATION TOP OF CONCRETE SLAB ELEVATION XXX.XX PROPOSED SPOT ELEVATION (XXX.XX) EXISTING SPOT ELEVATION CMU WALL GRADE BREAK ESW EDGE OF SIDEWALK DRIVEWAY CURB & GUTTER HIGH POINT NATURAL GROUND STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STANDARD SPECIFICATIONS FOR

PUBLIC WORKS CONSTRUCTION

ELEV. ELEVATION EXISTING BCR. BEGIN CURB RETURN ECR. END CURB RETURN ANGLE POINT KEY NOTE X FURNISH AND INSTALL/CONSTRUCT, DEMOLISH, REMOVE AND REPLACE, OR RELOCATE, AS INDICATED. NEW SLOPE

CURB FACE

EXISTING SLOPE FLOW LINE TEMPORARY BENCH MARK T.B.M. CONC. CONCRETE PAVEMENT ASPHALT CONCRETE PAVING NEW FINISH FLOOR

ABOVE FINISH FLOOR EDGE OF GUTTER SEWER CLEAN-OUT SEWER MANHOLE PLANTER AREA DRAINAGE INLET TOP OF SLAB

CPB

EPB

CONTROL JOINT

ROOF DRAIN

EXPANSION JOINT

COMMUNICATIONS PULL-BOX

ELECTRICAL PULL-BOX

WORK SHALL BE PERFORMED ACCORDING TO THE LATEST EDITIONS OF THE

PROJECT SITE AT ALL TIMES. 2. FRODED 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

1. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON- STORMWATER FROM THE

BEST MANAGEMENT PRACTICE NOTES:

3. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.

4. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL 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

5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED 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.

6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.

7. 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.

8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE PROJECT ENGINEER OR THE BUILDING OFFICIAL)

WIND EROSION CONTROL WE1 - WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

TC1 - STABILIZED CONSTRUCTION ENTRANCE EXIT LC6 TC2 - STABILIZED CONSTRUCTION ROADWAY TC3 - ENTRANCE/OUTLET TIRE WASH NON-STORMWATER MANAGEMENT

NS1 -WATER CONSERVATION PRACTICES NS2 - DEWATERING OPERATIONS NS3 -PAVING AND GRINDING OPERATIONS NS5 - CLEAR WATER DIVERSION NS6 -ILLICIT CONNECTION/DISCHARGER

POTABLE WATER/IRRIGATION NS7 -NS8 -VEHICLE AND EQUIPMENT CLEANING VEHICLE AND EQUIPMENT FUELING VEHICLE AND EQUIPMENT MAINTENANCE NS12 -CONCRETE CURING CONCRETE FINISHING MATERIAL AND EQUIPMENT USE

NS16 -TEMPORARY BATCH PLANTS WATER MANAGEMENT & MATERIAL POLLUTION CONTROL

MATERIAL DELIVERY AND STORAGE MATERIAL USE STOCKPILE MANAGEMENT SPILL PREVENTION AND CONTROL SOLID WASTE MANAGEMENT

WM9 -WM10 - LIQUID WASTE MANAGEMENT

TEMPORARY SEDIMENT CONTROL

SEDIMENT RASIN SEDIMENT TRAP CHECK DAM FIBER ROLLS GRAVEL BAG BERM

SANDBAG BARRIER STRAW BALE BARRIER STORM DRAIN INLET PROTECTION

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY AND ALL CONDUITS, UTILITY PIPE AND STRUCTURES SHOWN ON THIS SET OF PLANS ARE OBTAINED BASED ON AVAILABLE RECORDS AT THE TIME OF DESIGN. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES WITHIN THE CONSTRUCTIO LIMITS OF THIS PROJECT AT THE TIME OF DESIGN EXCEPT AS SHOWN ON THIS SET OF PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY AND ALL UTILITY LINES SHOWN ON THIS SET OF PLANS. THE CONTRACTOR FURTHER ASSUMES ANY AND ALL LIABILITY AND RESPONSIBILITY FOR THE CONDUITS, UTILITY PIPES, AND STRUCTURES SHOWN ON THIS SET OF DRAWINGS. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS STIPULATION INCLUDES THE SAFETY OF ANY AND ALL PERSONS AND PROPERTY. THE CONTRACTOR

EROSION CONTROL

SCHEDULING PRESERVATION OF EXISTING VEGETATION HYDRAULIC MULCH HYDROSEEDING SOIL BINDERS

STRAW MULCH GEOTEXTILES & MATS WOOD MULCHING EARTH DIKES AND DRAINAGE SWALES FC9 -EC10 -VELOCITY DISSIPATION DEVICES STREAMBANK STABILIZATION EC13 - POLYACRYLAMIDE

DEMOLITION ADJACENT TO WATER NS15 -

HAZARDOUS WASTE MANAGEMENT

CONTAMINATION SOIL MANAGEMENT CONCRETE WASTE MANAGEMENT SANITARY/SEPTIC WASTE MANAGEMENT

STREET SWEEPING AND VACUUMING

SHALL FURTHER DEFEND, INDEMNIFY, AND HOLD THE OWNER AND NGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, WITH THE EXCEPTION OF LIABILITY ARISING FROM THE SOLE NEGLIGENCE

OF THE OWNER OR ENGINEER

RAISED PLANTER WALL SECTION

FG PER PLAN 🔂 🤸

INV PER PLAN

SECTION 31 10 00

1.01 SECTION INCLUDES A. Clearing and protection of vegetation. B. Grubbing of root systems of trees and shrubs, abandoned utility lines and structures and other

SITE CLEARING

DEVELOPMENT REQUIREMENT FOR STEM HORIZONTAL REBAR:

DEVELOPMENT REQUIREMENT FOR STEM VERTICAL REBAR:

FOR #7 BARS: $\frac{1}{d} = 42$ " & $\frac{1}{dh} = 12$ " STD. HOOK & $\frac{1}{s} = 54$ "

FOR #5 BARS: $L_d = 36$ " & $L_d = 10$ " STD. HOOK & $L_s = 40$ " | STEEL BARS Fy = 60,000 PSI | NOTE: CONTRACTOR MUST

| W/C RATIO = 0.5

CONCRETE F'c = 4,000 PSI

below grade obstructions and debris.

PART 1 GENERAL

Removal of existing debris. 1.02 RELATED REQUIREMENTS A. Section 01 10 00 - Summary: Limitations on Contractor's use of site and premises

B. Section 01 50 00 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

C. Section 01 57 13 - Temporary Erosion and Sediment Control. D. Section 01 70 00 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation ${
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removed products. E. Section 01 74 19 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.

capping and identifying utilities; landscape paving, and removal of concrete foundations.

F. Section 02 41 00 - Demolition: Removal of built elements and utilities. 1. Removal of paving and removal if indicated of abandoned utilities. 2. Sitework (Area of Work), removal of designated fences, walls, and other elements;

G. Section 31 23 16 - Excavation: Site preparation for structure and paving H. Section 31 23 23 - Fill: Filling holes, pits, and excavations generated as a result of removal

1.03 QUALITY ASSURANCE A. Clearing Firm: Company specializing in the type of work required. 1. Minimum of five years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS A. Fill Material: As specified in Section 31 23 23 - Fill and Backfill

PART 3 EXECUTION

3.01 SITE CLEARING A. Comply with other requirements specified in Section 01 70 00. 3.02 EXISTING UTILITIES AND BUILT ELEMENTS A. Coordinate work with utility companies; notify before starting work and comply with their

ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

B. Minimize production of dust due to clearing operations; do not use water if that will result in

NOTE: SOILS BELOW THE WALL FOOTING SHOULD

BE OVEREXCAVATED TO A DEPTH OF 30" BELOW

DISTANCE OF 24" TO THE SIDES OF THE FOOTINGS.

THE RESULTING SURFACES SHALL BE SCARIFIED AN

THE BOTTOMS OF THE FOOTINGS AND TO A

ADDITIONAL 6", MOISTURE CONDITIONED AND

95% OF RELATIVE MAX. DENSITY.

(2) 1" CHAMFER, TYPICAL

(4) FINISH GRADE PER PLAN, TYP.

(5) 3" MULCH - REFER TO PLANTING PLAN

(6) SOIL BACKFILL PER PLANTING SPECIFICATIONS

(9) OVEREX AND RECOMPACT PER NOTE ABOVE

IPE SLATS PER ARCHITECTURAL PLANS

GREENBOOK SPECIFICATIONS.

TYP., PER LANDSCAPE PLANS

(14) 4" SDR-35 PERFORATED STORM DRAIN;

(15) CONNECT TO 6" SOLID STORM DRAIN PIPE.

SEE GRADING & STORM DRAIN PLAN FOR

SET FLUSH W/ TOP OF FOOTING

OF FOOTING @ SIGN

(16) MIRAFI 140N FILTER FABRIC

CONTINUATION

(7) WATERPROOF MEMBRANE, CONTRACTOR TO SUBMIT

APPROVAL BEFORE ORDERING OR INSTALLATION

@ 12" EA. WAY. TOP & BOTTOM HOOK BARS (10")

(8) 15" POURED-IN-PLACE CONCRETE FOOTING W/ #5

(10) ¾" CRUSHED ROCK LAYER, SHALL MEET S.S.P.W.C.

MORTAR SET COBBLE BAND @ BASE OF WALL

SEE STRUCTURAL PLANS FOR CONTINUATION

SPECIFICATION FOR ENGINEER'S REVIEW &

(1) 1" SMOOTH PLASTER FINISH - COLOR T.B.D.

) 8" THICK POURED-IN-PLACE CONCRETE WALL

REINFORCED W/ #7 @ 12" VERTICAL & #5 @ 16"

RECOMPACTED. THE WALL FOOTING SHALL BE

UNDERLAIN BY MIN. 30" OF ENGINEERED FILL. ALL

LL AND DISTURBED SOIL SHALL BE COMPACTED

requirements; obtain required permits.

SUBMIT SCALED SHOP DRAWINGS

ALONG WITH MIX DESIGN,

CRUSHED ROCK, WATERPROOF

MEMBRANE FILTER FARRIC &

PIPE FOR REVIEW AND APPROVAL

PRIOR COMMENCING ANY WORK.

B. Protect existing utilities to remain from damage.

C. Do not disrupt public utilities without permit from authority having jurisdiction. D. Protect existing structures and other elements that are not to be removed.

A. Perform clearing Work within confines of Project area indicated on Drawings or specified elsewhere herein and with strict adherence to the Contract Documents and Geotechnical recommendations.

A. Scope: Remove trees, shrubs, brush, and stumps in areas to be covered by building structure, paving, lawns, and planting beds.

C. Install substantial, highly visible fences at least 3 feet high to prevent inadvertent damage to vegetation to remain: 1. At vegetation removal limits.

D. Remove only trees within area to be cleared that have been marked for removal. Confirm trees to be removed with District and Architect before beginning removal process. Cut trunks close and parallel to ground.

2. Remove roots where under or within five feet of proposed structures. 3. Neither remove nor prune trees and shrubbery in public rights-of-way except by written approval of authorities having jurisdiction

E. In areas where vegetation must be removed but no construction will occur other than pervious paving, remove vegetation with minimum disturbance of the subsoil.

F. Vegetation Removed: Do not burn, bury, landfill, or leave on site, except as indicated. 1. Chip, grind, crush, or shred vegetation for mulching, composting, or other purposes; preference should be given to on-site uses.

2. Trees: Sell if marketable; if not, treat as specified for other vegetation removed; remove stumps and roots to depth of 18 inches

3. Existing Stumps: Treat as specified for other vegetation removed; remove stumps and roots to depth of 18 inche 4. Sod: Re-use on site if possible; otherwise sell if marketable, and if not, treat as specified

for other vegetation removed G. Dead Wood: Remove all dead trees (standing or down), limbs, and dry brush on entire site; treat as specified for vegetation removed.

H. Restoration: If vegetation outside removal limits or within specified protective fences is damaged or destroyed due to subsequent construction operations, replace at no cost to

3.05 GRUBBING A. At pipelines, remove all trees or stumps within five feet of the pipeline

C. Completely grub areas where unsuitable surface material is to be removed.

B. Perform grubbing where indicated on Drawings or as specified herein. Grubbing shall include removal from the ground of all stumps, roots, buried logs and other vegetation not otherwise indicated to remain, and removal and disposal of resulting refuse.

(1) CONCRETE PAVING PER PLAN

ENGINEER'S DRAWINGS

2 CONCRETE FOOTING AND PIER PER

STRUCTURAL ENGINEER'S PLANS

(3) CONCRETE PIER CAP PER STRUCTURAL

OCCCURS ALONG EDGE PIER, TYP.

(4) PROVIDE CONCRETE THICKENED EDGE WHERE

(5) 1/2" EXPANSION JOINT W/ TRAFFIC SEALANT

(6) CONCRETE PLANTER WALL PER PLAN AND DETAILS

PLACE IN THE CENTER OF THICKENED EDGE, TYP.

SET FLUSH WITH EDGE OF CONCRETE

(7) (2) #3 CONT. SET 9" APART. 3" CLR.

Neatly prune damaged branches and severed roots.

3.06 DAMAGED VEGETATION

N.T.S. A2 PAVING SECTION BEHIND SIGN

 B. Apply wound paint to above-ground cuts and abrasions. C. If trees and shrubs indicated to remain are damaged excessively, as determined by Owner

Representative, Architect or authorities having jurisdiction, remove and replace damaged plants with comparable plants. 3.07 DEBRIS

A. Remove debris, junk, and trash from site.

 B. Remove logs, rocks and other debris. C. Dispose of Debris resulting from clearing and thoroughly clean rights-of-way.

approval of the District.

D. Leave site in clean condition, ready for subsequent work. E. Clean up spillage and wind-blown debris from public and private lands.

3.08 DISPOSAL

A. Debris Disposal: Dispose of all cleared and grubbed materials in a legal manner off site. B. Hazardous Materials

1. Immediately notify the Owner Representative should hazardous materials or suspected hazardous materials be encountered 2. Dispose of such materials in accordance with all applicable laws and regulations and as directed by authorities having jurisdiction.

3. Unforeseen conditions will be resolved in accordance with the Conditions of the

C. Saleable Materials: 1. Unless otherwise indicated, all felled trees from which merchantable lumber or firewood can be produced shall become the property of the Contractor.

2. Unless otherwise indicated, all metallic debris of salvageable value shall become the property of the Contractor.

3. The Contractor shall remove all saleable materials from the site in a timely manner 4. Sale of salvaged and merchantable materials shall be done on site only with prior

3.09 DUST CONTROL A. Refer to requirements of:

8" DRAIN W/ CRUSHED ROCK SUMP DETAIL

D. Stockpiling Vegetation: Only if specified or indicated under landscape work, stockpile

1 8" NYLOPLAST DROP-IN DOME GRATE W/ PVC SDR-35 RISER.

LANDSCAPE PLANS.

(3) MIRAFI 140N FILTER FABRIC

(4) 3/4" CRUSHED ROCK PER S.S.P.W.C.

GREENBOOK SPECIFICATIONS

(2) ADJACENT LANDSCAPE, FINISH VARIES, REFER TO

(5) 6" PVC SDR-35 OUTLET PIPE FROM PLANTER WALL

BACKDRAIN, SEE C4.0 FOR CONTINUATION TO PLANTER

SLOPE PER PLAN

1. Section 01 50 00 - Temporary Construction Facilities and Controls.

Section 31 22 00 - Grading. B. Minimize dust during clearing and grubbing to protect adjoining property and vehicles parked

E. Burial and Burning: Debris shall not be buried or burned on site.

C. Clean-up: Keep public thoroughfares clear of dust and debris by periodic sweeping and washing down, at least daily at the end of working hours.

END OF SECTION

vegetation for subsequent mulching

SITE CLEARING SPECIFICATIONS

SECTION 31 22 00 GRADING

PART 1 GENERAL

1.01 SECTION INCLUDE

A. Coordinate work of this Section to compliment and coordinate with field conditions and Civil

Drawing noted specific referenced requirements. Utilize the most stringent requirements. B. Removal of topsoil.

 C. Rough grading and consolidation/compaction the site . D. Excavation of subsoil, stockpiling for later reuse, and removal of excess from the site. E. Preparing of subgrade for walks, pavements and site retaining walls.

F. Excavating, backfilling and compaction for wet utility lines. G. Finish grading.

1.02 RELATED REQUIREMENTS A. Section 31 10 00 - Site Clearing.

B. Section 31 23 16 - Excavation. C. Section 31 23 23 - Fill: Filling and compaction.

materially affect drainage.

D. Section 32 13 13 - Concrete Paving.

A. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients. 1. Accurately record location of all changes in finish elevations and gradients which

1.04 QUALITY ASSURANCE A. Regulatory Requirements: For conditions not covered in this Section, refer to applicable provisions of the California Building Code (CBC), Chapter 18A - Soils and Foundations, as

amended and adopted by authorities having jurisdiction

existing buildings to prevent damage.

B. Perform Work in accordance with locally adopted SSPWC standards.

1.05 PROTECTION

GRADING SPECIFICATIONS

A. Dust Control: Comply with requirements specified in Section 01 50 00 - Temporary Facilities

B. Protection: 1. Comply with general requirements specified in Section 01 50 00 - Temporary Facilities 2. Provide protection for walks, curbs, drains, and trees and boxing around corners of

operations.

C. Underground Utilities: 1. Buried utility lines may exist

2.01 MATERIALS

A. Topsoil: See Section 31 23 23

B. Shoring and Bracing: Provide all materials and services necessary to properly engineer and construct shoring for excavations. Selection of materials and design of shoring, underpinning and bracing of new and existing structures shall be solely the responsibility of the Contractor.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that survey bench mark and intended elevations for the Work are as indicated. B. Verify the absence of standing or ponding water. C. Upon discovery of unknown utility or concealed conditions, discontinue affected Work and notify Owner Representative, Architect and District for direction. Unforeseen conditions shall

equipment and vehicular traffic.

C. Locate, identify, and protect from damage above- and below-grade utilities to remain. 1. Maintain and protect existing utilities remaining which pass through Project area. D. Notify utility company to remove and relocate utilities, as required.

F. Protect site features to remain, including but not limited to bench marks, survey control

H. Protect plants, lawns, and other features to remain as a portion of final landscaping.

its branches; no grading is to be performed inside this line.

mixing with foreign materials. 1. Coordinate topsoil with Section 31 10 00 - Site Clearing.

D. Remove subsoil from areas to be further excavated, re-landscaped, or re-graded. See Section 31 23 16 - Excavation.

Do not remove topsoil when wet.

and existing grades

E. Do not remove wet subsoil, unless it is subsequently processed to obtain optimum moisture

F. When excavating through roots, perform work by hand and cut roots with sharp axe. G. See Section 31 23 23 for filling procedures.

California Building Code (CBC). I. Benching Slopes: Horizontally bench existing slopes greater than 5:1 (H:V) to key fill material to slope for firm bearing

K. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack surface water control. L. Grade top perimeter of excavations to prevent surface water from draining into excavation.

J. Stability: Replace damaged or displaced subsoil to same requirements as for specified fill.

and backfilling operations M. Uniformly grade areas as shown on Drawings to tolerances specified in this Section. 1. Evenly grade between points where elevations are shown or between points of Work

1. Upaved area slope for a distance of 10 feet from the building: Not less than one unit vertical in 20 units horizontal or 5 percent. a. CBC Section 1804A.4. 2. When supported by soil conditions and climate; slope not less than 1:48 or 2 percent in

a. CBC Section 1804A.4, Exception. O. Make grade changes gradual. Blend slopes into level areas.

A. Stockpile topsoil to be re-used on site; remove remainder from site. 1. Topsoil and vegetation layers, root zones, and similar surface materials should be stripped and stockpiled for either reuse in landscape surface areas or removed from the B. Stockpile subsoil on site for backfill, if soil is appropriate.

A. Before Finish Grading:

B. Remove debris, roots, branches, stones, in excess of 1/2 inch in size. Remove soil contaminated with petroleum products. Comply with CBC Section 1804A.3 C. Where topsoil is to be placed, scarify surface to depth of 6 inches.

E. Place topsoil in areas indicated. F. Place topsoil where required to level finish grade.

G. Place topsoil during dry weather H. Remove roots, weeds, rocks, and foreign material while spreading. I. Near plants spread topsoil manually to prevent damage.

K. Lightly compact placed topsoil. L. Maintain stability of topsoil during inclement weather. Replace topsoil in areas where surface water has eroded thickness below specifications.

3.06 TOLERANCES

A. Top Surface of Subgrade: Plus or minus 0.10 foot (1-3/16 inches) from required elevation. B. Top Surface of Finish Grade: Plus or minus 0.04 foot (1/2 inch). C. Top Surface Under Paving: Plus or minus 0.04 foot (1/2 inch) from required elevation.

B. Trees to Remain: If damaged due to this work, trim broken branches and repair bark wounds;

if root damage has occurred, obtain instructions from Architect as to remedy.

3.07 REPAIR AND RESTORATION A. Existing Facilities, Utilities, and Site Features to Remain: If damaged due to this work, repair or replace to original condition

Eman Bermani DESIGN TEAM

COVER SHEET-NOTES, DETAILS, 8 SPECIFICATIONS

NDERGROUND SERVICE ALER call: TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG

3. Keep adjacent roads, streets and drives clear of dirt and debris from earthwork

2. If such are encountered, notify Owner Representative, Architect and District and for directions to be followed for preservation, relocation or demolition of utilities.

PART 2 PRODUCTS

1. Shoring design shall comply with State of California Trenching and Shoring Manual issued by Offices of Structure Construction; 2011.

be resolved in accordance with the General Conditions.

 Identify required lines, levels, contours, and datum. B. Stake and flag locations of known utilities.

E. Provide temporary means and methods to remove all standing or ponding water from areas

G. Protect trees to remain by providing substantial fencing around entire tree at the outer tips of

3.03 ROUGH GRADING

A. Comply with Geotechnical Report and field directives of geotechnical engineer on-site. B. Remove topsoil from areas to be further excavated, re-landscaped, or re-graded, without

H. All permanent cut or fill slopes shall have a maximum slope of 2:1 (H:V) ratio, horizontal to vertical and shall comply with applicable requirements of the Geotechnical Report and

1. Provide dewatering of excavations as required to ensure suitable conditions for concrete

N. Slope rough grade away from building perimeter at gradient indicated.

3.04 SOIL REMOVAL AND STOCKPILING

Stockpile subsoil to depth not exceeding 8 feet.

C. Remove all lumped subsoil, boulders and rock in excess of 6 inches in greatest dimension. Stockpile subsoil to be re-used on site; remove remainder from site.

E. Stockpiles: Use areas designated on site; pile depth not to exceed 8 feet; cover to protect from erosion. 3.05 FINISH GRADING

1. Verify building and trench backfilling have been inspected. 2. Verify subgrade has been contoured and compacted.

D. In areas where vehicles or equipment have compacted soil, scarify surface to depth of 6

J. Fine grade topsoil to eliminate uneven areas and low spots. Maintain profiles and contour of subgrade.

D. Top Surface Under Footings and Foundations: Plus 0, minus 0.2 foot (2.4 inch). E. Top Surface Under Slabs on Grade: Plus 0, minus 0.04 foot (1/2 inch).

END OF SECTION

B. Over-excavate and recompact areas damaged by construction activities and weather.

C. Other Existing Vegetation to Remain: If damaged due to this work, replace with vegetation of

1. Field inspections and testing shall be performed in accordance with requirements

2. Make required quality control submittals in accordance with requirements specified.

C. Non-compliance: Should grade elevations, tests of fill or backfill indicate non-compliance with

required elevations or density, Contractor shall over-excavate, recompact and retest until

2. Retesting to demonstrate compliance shall be by a testing laboratory acceptable to

A. Remove unused stockpiled topsoil and subsoil. Grade stockpile area to prevent standing

1. Costs and Time associated with remedial Work and retesting shall be in accordance with

equivalent species and size.

A. See Section 31 23 23 for compaction density testing.

specified grade or density is obtained.

provisions of the General Conditions

District and shall be at Contractor's expense.

B. Leave site clean and raked, ready to receive landscaping.

A. Protect completed grading from erosion from weather and traffic.

specified in Section 01 40 00 and 01 45 33.

3.08 FIELD QUALITY CONTROL

B. Field Quality Control:

3.10 PROTECTION

DSA RESUBMITTAL

Barsin Bet Govargez

PROJECT MANAGER

04/17/2020

Michael Ledbetter MOORPARK COLLEGE WAYFINDING

613696000

1300 Dove Street, Suite # 10 Newport Beach, CA. 92660 www.littleonline.com

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COLLEGE DISTRICT

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IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS I DIFLS I HESTACS

APP. 03-120493 INC:

DATE: 06/30/2020

1.3.4. Mix designs: Prepare mix designs for Architect's review. Include the following information **2.2.6.** Do NOT use heat to bend bars. **SECTION 03 30 10** in mix design data: Remove and replace reinforcement with following fabrication defects: **2.1.2.3.** Class/Face Veneer: Class I or II, B-B Veneer. CAST-IN-PLACE CONCRETE 1.3.4.1.1. Design Method, mix number. 2.1.2.4. Panel Finish: Where concrete will be exposed to view in final project, with **2.2.7.1.** Bar lengths, depths and bends exceeding specified fabrication tolerances. Specified compressive strength, maximum aggregate size, painted and non-painted finish, provide HDO resin fiber overlay. 1. PART 1 - GENERAL slump, and placement method. 2.2.7.2. Bends or kinks not shown on drawings or final shop drawings. **2.1.3.** Lumber Forms: Any grade or species, S4S. 1.1. SECTION INCLUDES Application and location in structure. **2.2.7.3.** Bars with reduced cross-section due to excessive rusting or other causes. **2.1.4.** Form Ties: 1.3.4.1.4. Water-Cement Ratio 1.1.1. Formwork and anchorage. 2.2.8. Locate reinforcing splices as shown on Drawings. Obtain approval of Structural Engineer 2.1.4.1. Concealed Condition: Meadow Burke Penta-Tie or equal. Snap-off type, fixed for splices not shown on drawings. 1.1.2. Concrete reinforcement and accessories. 1.3.4.1.5. Cement: Type, amount, and compliance with specified length, cone type, 1 inch back break dimension, free of defects that could leave holes larger than one inch in concrete surface; provide flush plugs for 2.3. CONCRETE MATERIALS criteria statement 1.1.3. Cast-in-place concrete. cone holes or grout fill as specified. Aggregates: Source(s), gradations (individual and 2.3.1. Cement: Conform to CBC Section 1913A.1, and ASTM C150; normal - Type II, low alkali, 1.3.4.1.6. 1.2. REFERENCES **2.1.4.2.** Exposed Condition: Snap-off type, fixed length, cone type, 1 inch back break grey color. Type V cement shall be used for concrete in contact with soil. dimension, free of defects that could leave holes larger than one inch in **1.2.1.** ACI 117 - Specification for Tolerances for Concrete Construction and Materials. Fine and Coarse Aggregates: Conform to CBC Section 1903A.6, ASTM C33 and the Signature and stamp of licensed civil engineer responsible concrete surface; provide semi-recessed plugs for cone holes. for mix design. **1.2.2.** ACI 301 - Specification for Structural Concrete. Form Release Agent: Cresset or equal, colorless, water based material which will not stain 1.4. QUALITY ASSURANCE **2.3.2.1.** Coarse Aggregate: Clean, hard, fine-grained, sound, crushed rock or washed concrete, or absorb moisture, or impair natural bonding or color characteristics of coating **1.2.3.** ACI 302.1R - Guide for Concrete Floor and Slab Construction. intended for use on concrete. 1.4.1. Comply with applicable portions of referenced ACI 315 and ACI 347 standards for **1.2.4.** ACI 305R - Hot Weather Concreting, and ACI 306.1, Cold Weather Concreting. 2.3.2.1.1. **2.1.5.1.** Select type suitable and appropriate for achieving CCS 2 surface at exposed Slabs, Columns, Walls: Class Designation 5M per ASTM C construction of concrete work specified in this Section. concrete applications. 33, Table 3, with 1 inch grading. Comply with Chapters 7 and 12 of ACI 318 for details of reinforcement and laps at bar **1.2.5.** ACI 308 - Standard Practice for Curing Concrete. 2.1.6. Corners: Chamfered, rigid plastic or wood strip type; 3/4 x 3/4 inch size; maximum possible **2.3.2.1.2.** Foundations: Class Designation 3M per ASTM C 33, Table **1.2.6.** ACI 318 - Building Code Requirements for Structural Concrete. 3, with 1-1/2 inch grading. **1.5.** REGULATORY REQUIREMENTS 1.2.7. ASTM C 33 - Concrete Aggregates. 2.1.7. Form Stakes: Steel bar stock, pre-drilled for nails. **2.3.2.2.** Fine Aggregate: Washed natural or manufactured sand, hard, strong, durable 1.5.1. Conform to applicable sections of Chapter 19A, Part 2, Title 24, CCR. particles: not more than 1 percent deleterious materials. 1.2.8. ASTM C 94 - Ready-Mixed Concrete. 2.1.8. Formwork Panel Edge: Provide foam edge stripping at exposed formwork panel edges to 1.6. PRODUCT HANDLING **2.3.2.3.** Aggregate shall be non-reactive per ASTM C 289. minimize mortar leakage. 1.2.9. ASTM C 150 - Portland Cement. 2.2. REINFORCING STEEL **2.3.3.** Water: Clean, potable, and not detrimental to concrete. **1.6.1.** On delivery to Project Site, place materials in area protected from weather. **1.2.10.** ASTM D1752 - Preformed Sponge Rubber and Cork Expansion Joint Fillers. Store materials above ground on framework or blocking and cover with protective 2.2.1. Reinforcing Steel: Concrete slab-on-grade rock base: Clean, washed crushed rock base, 3/8 inch grading, 1.3. SUBMITTALS waterproof covering providing for adequate air circulation and ventilation. Handle complying with ASTM C 33. 2.2.1.1. Non-Welded Systems: ASTM A615, deformed billet steel bars, uncoated. **1.3.1.** Provide submittals under provisions of Division 01. 2.4. ACCESSORIES **2.2.1.1.1.** Bar size #3 and larger: Grade 60. **1.3.2.** Product Data/Materials List: Submit data indicating product standards, physical and 2.4.1. Membrane Curing Blankets 2. PART 2 - PRODUCTS chemical characteristics, technical specifications, limitations, maintenance instructions, **2.2.1.2.** Provide reinforcing steel complying with ASTM A 706, Grade 60, deformed, 2.4.1.1. Provide Whitecap or equal 483-Curelap light colored plastic faced 10 oz. and general recommendations regarding each material proposed for the work in this uncoated steel, where shown. 2.1. FORM MATERIALS burlap curing blankets complying with ASTM C 171. **2.2.2.** Dowels: Same as 2.2.1. 2.4.2. Vapor Retarder Membrane **1.3.3.** Test Reports: Submit certified copies of mill test report of reinforcing steel analysis to **2.1.1.** Conform to ACI 347. testing laboratory, indicating products meet or exceed specified requirements. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of **2.1.2.** Softwood Plywood - Vertical and horizontal surfaces. reinforcement during concrete placement conditions including load bearing pad on bottom **2.4.2.1.** Manufacturer: Stego Wrap, www.stegoindutries.com, or equal. **1.3.3.1.** Steel Source and Description to prevent vapor retarder/retarder/barrier puncture. 2.1.2.1. Grade Certification: APA Grade stamped, complying with PS-1. **2.4.2.2.** Type: Polyolefin geomembrane film. **1.3.3.2.** Ultimate tensile strength, Bend test, Elongation percentage and Yield point. Fabricate concrete reinforcing in accordance with CRSI Manual of Standard Practice, ACI 2.1.2.2. Type: APA Plyform, Exterior Type. 2.4.2.3. Product Characteristics: JOINT SEALERS **1.3.3.3.** Heat number and Chemical analysis. Do NOT bend or straighten bars in manner that will weaken or injure bar. Do not re-bend **2.4.2.3.1.** Thickness: Minimum 15 mils. bars #5 and larger. 03 30 10 - 1 03 30 10 - 2 03 30 10 - 3 03 30 10 - 4 2.6. CONCRETE MIX **3.1.2.** In the event of discrepancy, immediately notify the Architect. **3.2.10.1.** Provide bracing to ensure stability of formwork. 2.6.1. Prepare concrete mix design, stamped and signed by a CA. Professional Engineer and 2.7.2.1. Reinforcing Bars: Section 1913A.2, Chapter 19A,Part 2, Title 24, CCR and Do not proceed with installation in areas of discrepancy until all such discrepancies have 3.2.10.2. Align form joints. in accordance with ACI 318, Chapter 5, section 1904A. been fully resolved. **3.2.10.3.** Place plywood panels with horizontal joints level, vertical joints plumb. 3.2. FORMWORK AND REINFORCING **2.6.1.1.** Provide concrete mixes as necessary to attain strengths and characteristics **2.7.2.2.** Cost of testing for unidentified stock shall be reimbursed to the Owner by the 3.2.10.3.1. Unless noted otherwise, place panel edge at center of as noted on the drawings and in the specifications. Erect formwork, shoring and bracing to achieve design requirements, in accordance with surface and extend in equal dimension in each direction. **2.6.1.2.** Concrete strength: minimum compressive strength of 4,000 psi at 28 days **2.7.3.** Cement and Aggregate requirements of ACI 347. **3.2.10.3.2.** Set form tie so that visible cones are placed in a uniform and Verify lines, levels, and measurement before proceeding with formwork. 2.6.1.3. Maximum Water-Cement ratio: Maximum 0.5 at point of placement, or **2.7.3.1.** Cement: CBC Section 1913A.1, Chapter 19A, Part 2, Title 24, CCR. aligned pattern. Maintain cones level and vertically aligned. according to indicated concrete strength. **2.7.3.2.** Aggregate: CBC Section 1903A.4, Chapter 19A, Part 2, Title 24, CCR. Do not apply form release agent where concrete surfaces receive special finishes or **3.2.10.4.** Keep form joints to a minimum. Use maximum size panels. **2.6.1.4.** Mix concrete in accordance with ASTM C94 applied coatings which may be affected by agent. 2.7.3.3. Batch Plant Inspection: CBC Section 1705A.3.2, Chapter 19A, Part 2, Title **3.2.10.5.** Back all joints by a stud or solid blocking, and provide shaped filler where 2.6.1.5. Deliver to Inspector on site, with each mixer load of concrete, certificate Coordinate work of other Sections in forming and setting openings, slots, recesses, 24. CCR and criteria specified in this Section. necessary for smoothness. Provide foam form edge striping to prevent grout bearing signature of the Weighmaster and Testing Laboratory batch plant chases, sleeves, bolts, anchors, and other inserts. washout. 2.8. OTHER MATERIALS inspector stating quantities of each material contained in load and time mixer was loaded. 3.2.5. Locate and set in place items which will be cast directly into concrete. **3.2.10.6.** Reused panels shall be thoroughly cleaned, damaged edges or surfaces Provide all other materials, not specifically described but required for complete and proper repaired, and both sides and edges coated with specified material. installation of this work, as selected by the contractor and subject to the approval of the **2.6.1.6.** Delivery Requirements: 3.2.5.1. Set all anchor bolts, hold downs and related embeds with plywood templates anchored to formwork as required to maintain in alignment and position during 3.2.10.7. Nail plywood along edges and to intermediate supports with common wire Licensed Weighmaster shall positively identify materials as nails spaced as necessary to maintain alignment and prevent warping. to quantity and certify each load by ticket. Arrange and assemble formwork to permit dismantling and stripping. Do not damage Apply form release agent on formwork in accordance with manufacturer's 3. PART 3 - EXECUTION concrete during stripping. Provide crush plates or other approved guards where stripping 2.6.1.6.2. Ticket shall be transmitted to Project Inspector by truck recommendations. Apply prior to placement of reinforcing steel, anchoring devices, and operation may damage concrete. Kerf wood inserts to permit easy removal. embedded items. 3.1. SURFACE CONDITIONS reinforcements. 2.6.1.6.3. Project Inspector shall keep daily record of pours, identify Chamfer exposed corners. Seal Joints between chamfer and form panel. Miter chamfer 3.2.11.1. Do not apply form release agent where concrete surfaces will receive special 3.1.1. Inspection **3.2.22.** Screed Placement and Leveling: each truck, its load and time of receipt and transmit duplicate strips at changes in direction finishes or applied coverings which are effected by agent. Soak inside copy of record to DSA. surfaces of untreated forms with clean water. Keep surfaces wet prior to 3.1.1.1. Prior to work of this section, carefully inspect previously installed work. Verify Openings in structural members which are not indicated on Drawing are not permitted. placement of concrete. Concrete arriving at Work without Weighmaster ticket will be all such work is complete to the point where this installation may properly Foundation Formwork **3.2.12.** Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads, and in accordance with the following: **3.1.1.2.** Verify that work of this section may be installed in strict accordance with the 2.6.1.7. Representative of Testing Laboratory shall maintain continuous inspection of **3.2.9.1.** Hand trim sides and bottom of earth forms; remove loose dirt. 3.2.12.1. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against batch plant preparation of concrete, including review of aggregate and cement original design, all pertinent codes and regulations, and all pertinent portions loading and mixing procedures, and final quantities contained in each truck 3.3. PLACING CONCRETE **3.2.9.2.** Construct wood edge forms, as specified below, to extend not less than 2 finish concrete surfaces scheduled for exposure to view. of the referenced standards. inches below soil level. Do not permit stakes to extend into or through footing zone. Form all concrete without penetrating footing concrete. 3.2.12.2. Store removed forms in manner that surfaces to be in contact with fresh 3.1.1.3. Verify all excavations have been inspected and approved by the Geotechnical Where batch plant is certified as conforming to quality control Engineer. Verify all reinforcement and forms have been inspected and concrete will not be damaged. Discard damaged forms. 3.2.9.3. Fill over-excavated footings and foundations with concrete at no additional and equipment criteria defined by CBC Section 1705A.3.3 **3.2.13.** Vapor retarder/barrier membrane installation Chapter 17A, Part 2, Title 24, CCR, batch plant inspection may be waived, following acceptance of such certification by **3.1.1.4.** Verify concrete elevations, dimensions, and alignment with work specified in Excavate as necessary to accommodate installation and removal of 3.2.13.1. Proof roll subgrade. 2.6.1.7.2. In the absence of such certification, batch plant inspection **3.1.1.5.** Verify requirements for concrete cover over reinforcement. **3.2.13.2.** Place 4 inch crushed rock base over sub-grade. may be waived for concrete used on single story wood **3.2.9.5.** Prior to pouring footings or foundations, remove all debris, loose material, and framed structures when criteria defined in CBC Section 3.1.1.6. Identify, verify, and coordinate placement of piping and conduit sleeves 3.2.13.3. Place vapor retarder/barrier membrane over rock base, lapping edges 12 water from excavation. Where water has accumulated in excavation, obtain 1705A.3.3, Chapter 17A, Part 2, Title 24, CCR are met. Architects and Geotechnical Engineers review of the suitability of sub-grade inches. Tape and seal edges and penetrations. Extend membrane to footing through concrete. Comply with initial batch plant inspection and criteria face and turn down to bottom of footing. 3.1.1.7. Identify, verify, and coordinate the location, dimension, and requirements of specified in paragraph 2.6.2.2 of this Section. **3.2.13.4.** Provide pipe "boots" at all pipe and conduit penetrations in accordance with 3.2.9.6. Do not place concrete on mud or saturated soils. Repair sub-grade as all depressions, recesses, block-outs and other provisions. and test samples taken. 2.7. SOURCE QUALITY CONTROL AND TESTS required by Geotechnical Engineer at no additional contract cost. manufactures recommendations. **3.1.1.8.** Verify anchors, seats, plates, reinforcement and other items embedded in **2.7.1.** Provide for testing under the provisions of Section 01 45 00. concrete are accurately placed, positioned securely, and will permit proper **3.2.10.** Wall and structure formwork **3.2.13.5.** Obtain inspectors approval of membrane installation before placing concrete. 03 30 10 - 6 03 30 10 - 7 03 30 10 - 8 03 30 10 - 9 3.11. EQUIPMENT BASES **3.3.6.1.** Place construction joints only at locations shown on drawings or as approved **3.5.1.2.** Control joint [saw cut] spacing shall generally not exceed 5-ft in any direction. **3.8.2.** Classification shall be per General Building: Cast-in-Place, ACI 117, Section 4.0, unless noted otherwise. Place formed construction joints in floor slab. Set top screed to required elevations. Secure **3.11.1.** Provide concrete bases and anchorage for mechanical, electrical, and other work as **3.3.6.2.** Install construction joints as indicated on drawings to resist movement of wet concrete. Unless noted otherwise, depressions in slab floors between high spots shall be a required and shown on the drawings and in accordance with reviewed Shop Drawings of maximum 3/16 inch in ten feet, using a metal straight edge placed at any location on slab, **3.3.6.3.** Once concrete operation has begun, it shall be continued until the specific Install isolation /expansion joints with sealant between slab edges and vertical structural and measured within 72 hours of pour. 3.12. MISCELLANEOUS CONCRETE WORK panel, component, or section is complete. Thoroughly consolidate concrete during placement using mechanical vibrators. Do not **3.5.4.** Install sealants in accordance with Division 07. 3.12.1. Provide areaways, cast-in-place valve boxes, pits, splash blocks, bases, and other 3.9. PATCHING miscellaneous concrete as shown and required to complete the Work. Conform to allow vibrators to contact forms or reinforcing. Provide construction joints or equal weakened plane joints at locations shown on applicable requirements as specified in this section. **3.3.8.** Screed floors and slabs on grade level or slope to drain as noted on drawings. Exposed formed concrete surfaces, both interior and exterior, including surfaces designated to receive painted finish, shall provide surfaces suitable for subsequent **END OF SECTION** 3.4. CONCRETE FINISHING Saw cut slab before random shrinkage cracks form, and as soon as slab is finishing, free from imperfect joints, fins, "honeycombing", air pockets or "bug" holes, or firm enough to not be damaged by saw blade. Complete sawcutting within 12 other such imperfections. 3.4.1. Slab Finish Remove rough spots, stains and hardened mortar or grout from intended smooth surfaces **3.4.1.1.** Produce hard and impervious surfaces, free from defects and blemishes. 3.6. CURING AND PROTECTION by rubbing such surfaces lightly with fine Carborundum stone. Use liberal amount of water and rub sufficiently to remove defects without changing texture of concrete. **3.4.1.2.** Provide steel troweled finish, Class 3, per ACI 302.1R. Steel troweling shall Maintain concrete above 50 degrees F and in a thoroughly moist condition for at least the first 7 days after placing concrete 3.9.3. Filling Snap Tie Cone Holes: consist of three separate operations. Obtain Architect's approval of finish prior to proceeding. 3.6.2. Floor Surface Curing **3.9.3.1.** Break off tie rods at bottom of cone holes. 3.4.1.3. At all corridors, utility areas, and similar surfaces not receiving subsequent 3.6.2.1. Cure floor surfaces in accordance with ACI 308. **3.9.3.2.** Concealed Applications: Flush hole with water, and allow to dry. Coat entire finish, provide medium swirl texture inner surface of cone hole with liquid bonding agent, then grout holes solid Slabs receiving thin set ceramic tile, waterproofing membranes or traffic 3.6.2.2. Curing Blanket Placement: Install blankets immediately after finishing and with approved cement grout and grind smooth topping; provide steel trowel and very light broom finish. joint placement is completed. Place over all surfaces, including face of footings and depressions. Anchor as required to maintain in place for a period **3.9.3.3.** Exposed Applications: Flush hole with water, and allow to dry. Coat entire 3.4.2. Exterior Slab Floors at service areas: inner surface of cone hole with liquid bonding agent. Insert semi-recessed plug with approved cement. **3.4.2.1.** Exterior Service/Utility Concrete Slabs: Provide steel trowel and light broom **3.6.2.3.** Membrane sealing Compounds: Apply in accordance with manufacturer's finish. Broom finish shall be placed in a pattern as directed by the Architect. 3.10. DEFECTIVE CONCRETE instructions. 3.4.3. All Other Surfaces 3.7. FIELD QUALITY CONTROL 3.10.1. Concrete will be considered defective if strength characteristics indicated by tests of molded cylinders and core tests fall below the minimum 28-day strengths specified or 3.4.3.1. All surfaces shall be as-cast, subject to repair of surface deficiencies as 3.7.1. Field inspection and testing will be performed in accordance with provisions of code indicated. Replace or adequately strengthen such defective concrete in a manner acceptable to the Architect and Structural Engineer. **3.7.2.** Provide free access to Work and cooperate with appointed firm. 3.4.4. Surface Defects **3.10.2.** Concrete will be considered defective if any one of the following conditions occurs: **3.7.3.** Comply with requirements of CBC Section 1905A.1.2 regarding frequency of testing for **3.4.4.1.** Surface defects shall be as defined in ACI 309.2R. **3.10.2.1.** Any concrete work not formed as indicated or is not in conformance with specified tolerances. 3.4.4.2. Surface irregularities shall be as defined in ACI 347 for Class B surfaces for **3.7.4.** One slump test will be taken for each set of test cylinders taken. **3.10.2.2.** Any concrete with voids or honeycomb that has been cut, resurfaced or filled, semi exposed surfaces, and Class A surfaces at all exposed to view **3.7.4.1.** Prepare concrete sample(s) for each type of concrete placed each day. unless under the direction of the Structural Engineer.

3.10.2.3. Any concrete with sawdust, shavings, wood, or embedded debris.

3.10.2.5. Replace or repair such defective concrete to the satisfaction of the Architect

03 30 10 - 13

03 30 10 - 14

3.10.2.4. Any concrete placed more than 90 minutes after batching

at no extra cost to the Owner.

3.4.4.3. All surface defects shall be repaired per approved methods and as specified.

3.5.1.1. Expansion joint spacing shall generally not exceed 15-ft in any direction -

03 30 10 - 11

3.5.1. Locate and form expansion control and contraction joints. Coordinate location with joint

3.5. EXPANSION AND WEAKENED PLANE JOINT INSTALLATION

pattern shown for finish flooring.

CAST IN PLACE CONCRETE SPECIFICATIONS

400-sf max area.

3.7.4.2. Prepare one sample for each 50 cubic yards or fraction thereof.

placed, or a fraction thereof.

3.8.1. All tolerances shall be as defined in ACI 117 and as specified.

3.8. TOLERANCES

3.7.4.3. Prepare one sample for each 2,000 square feet of slab or wall surface are

03 30 10 - 12

Perm Rating: Maximum 0.01 grains/square foot/hour per ASTM F 1249. Water Vapor Transmission Rate: Maximum 0.006 grains/square foot/hour per ASTM F 1249. Puncture resistance: Minimum puncture resistance of 2200 grams per ASTM D 1709. Tensile Strength: Minimum tensile strength of 50 pounds per ASTM D 882. Values shall be based on ASTM E 154 Resistance to Decay test portion. **2.4.2.3.6.** Low Temperature Brittleness: Pass per ASTM D 1790. 2.4.2.4. Accessories. Provide all required seam tapes and mastics as supplied by Non-Shrink Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing admixtures, capable of developing a minimum compressive strength of 8,000 psi at 28 days when tested in accordance with CRD-C-621 and ASTM C 1107. Admixtures: Concrete admixtures shall be subject to prior approval by DSA the jurisdictional authority and Architect. Calcium chloride or admixtures containing chloride shall not be used. Admixture(s) shall not adversely affect concrete strength or color of colored concrete, where occurs. Polymer Modified Concrete: Provide Sika Armatec 110 polymer modified concrete, with 3/8 inch minus aggregate conforming to manufacturers criteria. Bonding Agent: Provide SikaDur 32 Hi-Mod bonding agent/adhesive conforming to manufacturers criteria. 2.5. SCREED SYSTEMS AND JOINT FORMING MATERIALS Screed Systems: Provide Grann Adjustable Quick Screed or equal chairs, available through Dayton Richmond (800-745-3700). Formed Construction Joints: Meadow Burke Keyed Kold or equal, galvanized steel, tongue and groove type. Isolation Joint at radiused conditions: W.R. Meadows, www.wrmeadows.com, or equal, Ceramar, 3/8 inch thick by full depth of slab. Isolation Joint at perimeter conditions: W.R. Meadows or equal, Sealtight Fiber, 3/8 inch thick by full depth of slab. Weakened plane/control joints: Provide Soff-Cut system or sawcutting at all slab areas. Use of cast-in-place concrete joints is not acceptable. 2.5.6. Provide sealants per Section 07 90 00. 03 30 10 - 5 3.2.13.6. Exercise care in placing reinforcing steel and concrete to avoid puncturing vapor retarder/barrier membrane. Do not drive stakes through the membrane. Use flat base screed supports. 3.2.14. Place all concrete reinforcing in accordance with CRSI Placing Reinforcing Bars. 3.2.15. Before placing, clean reinforcing of loose scale, rust, oil, dirt, and any coating adversely 3.2.16. Repair vapor retarder/barrier damaged during placement of concrete reinforcing. Repair with same material; lap over damaged areas minimum 6 inches and seal watertight with manufacturer's approved seam tape. 3.2.17. Place, support and secure reinforcement against displacement. Do not deviate from required position. Do not bend or straighten bars after placement. **3.2.18.** Do not displace or damage vapor retarder /retarder/barrier. 3.2.19. Accommodate placement of formed openings. Maintain concrete cover around reinforcing **3.2.20.** Provide dowel joints at concrete joints as shown on drawings. 3.2.21. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions. Before concrete is deposited upon or against concrete that has taken its initial set or has hardened, mechanically roughen hardened concrete to minimum 1/4" amplitude. Remove all encrustations from forms and **3.2.22.1.** Space screeds at manufacturers recommended spacing. **3.2.22.2.** Space screed for strip pours. **3.2.22.3.** Level screeds by use of laser level equipment to specified slab elevation. **3.3.1.** Place concrete in accordance with ACI 304 Ready mix concrete shall be delivered in accordance with ASTM C94. Concrete shall be placed within 90 minutes after start of mixing 3.3.3. Conform to ACI 305R when concreting during hot weather or when weather conditions may cause rapid evaporation of moisture. Conform to ACI 306R for concrete placement 3.3.4. Ensure reinforcement, inserts, embedded parts, formed joint fillers, and joint devices are not disturbed during concrete placement. Maintain records of concrete placement. Record date, location, quantity, air temperature, Place concrete continuously between predetermined expansion, control, and construction 03 30 10 - 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120493 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/30/2020

300 Dove Street, Suite # 10 Newport Beach, CA. 92660

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

COLLEGE WAYFINDING

No. 81751

Exp. 3/31/22

CIVIL

OF CALLED

DSA RESUBMITTAL

NO. REASON DATE

PRINCIPAL IN CHARGE
Barsin Bet Govargez

PROJECT MANAGER
Eman Bermani

DESIGN TEAM
Michael Ledbetter

MOORPARK COLLEGE WAYFINDING

613696000

SPECIFICATIONS

1 1

SECTION 31 23 16

EXCAVATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Excavating for footings, paving, and site structures.
- B. Temporary excavation support and protection systems.

1.02 RELATED REQUIREMENTS A. Document 00 31 00 - Available Project Information: Geotechnical report; bore hole locations

- and findings of subsurface materials. B. Section 01 40 00 - Quality Requirements: Inspection of bearing surfaces.
- C. Section 01 50 00 Temporary Facilities and Controls: Dewatering excavations and water
- D. Section 01 57 13 Temporary Erosion and Sediment Control: Slope protection and erosion
- E. Section 01 70 00 Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring. General requirements for dewatering of
- excavations and water control. F. Section 02 41 00 - Demolition: Shoring and underpinning existing structures.
- G. Section 31 10 00 Site Clearing: Vegetation and existing debris removal.
- H. Section 31 22 00 Grading: Grading.
- I. Section 31 23 23 Fill: Fill materials, backfilling, and compacting. 1.03 REFERENCE STANDARDS
- A. 29 CFR 1926 U.S. Occupational Safety and Health Standards; current edition.
- 1.04 REFERENCE STANDARDS A. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN m/m3)); 2012, with Editorial Revision (2015).
- 1.05 SUBMITTALS A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Temporary Support and Excavation Protection Plan. C. Project Record Documents: Record drawings at project closeout according to 01 70 00 -Execution and Closeout Requirements. Show locations of installed support materials left in
- D. Shoring Installer's Qualification Statement. E. Field Quality Control Submittals: Document visual inspection of load-bearing excavated
- place, including referenced locations and depths, on drawings.
- - 3.02 PREPARATION

1.06 QUALITY ASSURANCE

PART 2 PRODUCTS

2.01 MATERIALS

PART 3 EXECUTION

3.01 EXAMINATION

A. Bedding and Fill to Correct Over-Excavation:

points to act as benchmarks.

 Identify required lines, levels, contours, and datum locations. B. See Section 31 10 00 for clearing, grubbing, and removal of existing debris.

other damage is evident in adjacent construction.

1. See Section 31 23 23 for bedding and corrective fill materials at general excavations.

Verify that survey bench mark and intended elevations for the work are as indicated.

B. Survey existing adjacent structures and improvements and establish exact elevations at fixed

C. Determine the prevailing groundwater level prior to excavation. If the proposed excavation

perimeter drains routed to sump pumps, or as directed by Architect. If the proposed

1. Resurvey benchmarks during installation of excavation support and protection systems

and notify District if any changes in elevations or positions occur or if cracks, sags, or

extends less than 1 foot into the prevailing groundwater, control groundwater intrusion with

excavation extends more than 1 foot into the prevailing groundwater, control groundwater

intrusion with a comprehensive dewatering procedures, or as directed by Geotechnical

excavations and adjacent structures and property.

- C. Locate, identify, and protect utilities that remain and protect from damage.
- A. Temporary Support and Excavation Protection Plan: D. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic. Indicate sheeting, shoring, and bracing materials and installation required to protect
- E. Grade top perimeter of excavation to prevent surface water from draining into excavation. Provide temporary means and methods, as required, to maintain surface water diversion until Include drawings and calculations for bracing and shoring. no longer needed, or as directed by Architect. 3. Bracing and shoring design to meet requirements of OSHA's Excavation Standard, 29 CFR
- 3.03 TEMPORARY EXCAVATION SUPPORT AND PROTECTION B. Designer Qualifications: For design of temporary shoring and bracing, employ a Professional A. Excavation Safety: Comply with OSHA's Excavation Standard, 29 CFR 1926, Subpart P.
- Engineer experienced in design of this type of work and licensed in California. Excavations in stable rock or in less than 5 feet in depth in ground judged as having no C. Shoring Installer Qualifications: Company specializing in performing the shoring and bracing cave-in potential do not require excavation support and protection systems. work of this section with minimum five years of documented experience.
- configuration and slope of excavation sidewalls, design and provide an excavation 1.07 COORDINATION OF SPECIFICATION REQUIREMENTS support and protection system that meets the requirements of 29 CFR 1926, Subpart P: A. Coordinate these Specification Section requirements with specifications included on Drawings. a. Sloping and benching systems. Comply with more stringent requirements and with those requirements of authorities having
- b. Support systems, shield systems, and other protective systems. B. Comply in full with the direction (recommendations) given in the Geotechnical Report.
 - B. Shoring Design: Comply with State of California Trenching and Shoring Manual issued by Offices of Structure Construction; 2011. 1. Provide all materials and services necessary to properly engineer and construct shoring
 - for excavations. Selection of materials and design of shoring, underpinning and bracing of new and existing structures shall be solely the responsibility of the Contractor. C. Underpin adjacent structures that could be damaged by excavating work, including utilities
 - and pipe chases.

2. Depending upon excavation depth, time that excavation is open, soil classification,

- D. Protect excavations from cave-in and from loose soil and other matter from falling in. E. Leave excavation support and protection systems, used as formwork or within 10 feet of existing foundations, permanently in place, unless otherwise noted.
- Cut off top 4 feet below grade, abandon remainder. F. Excavation support and protection systems not required to remain in place may be removed subject to approval of District or District's Representative.
- 1. Remove temporary shoring and bracing in a manner to avoid harmful disturbance to underlying soils and damage to buildings, structures, pavements, facilities and utilities.
- A. Excavate to accommodate construction operations and paving/site structures.
 - 1. Excavate to the specified elevations. 2. Excavate to the length and width required to safely install, adjust, and remove any forms,
 - bracing, or supports necessary for the installation of the work. 3. Hand trim excavations. Remove loose matter.
 - 4. Excavate subsoil from areas to be filled with topsoil, to construct foundations, footings,
 - slabs on grade, paving and to achieve final finish grades.
 - 5. Over-excavate to working elevations for backfilling and compaction operations.
 - 6. Specific Site requirements:

- a. Flatwork/Hardscape/wall foundation and sign structure:
- 1.a) In areas of proposed concrete flatwork or pavement, provide a minimum overexcavation and recompaction of 1.5 feet below existing grade or 18 inches below The lowest proposed subgrade elevation, whichever is deeper.
- 1.b) In areas of proposed sign structure and wall foundation, provide a minimum over-excavation and recompaction of 1.5 feet below bottom of the lowest footing or existing grade, whichever is deeper.
- 2) Extend over-excavation and recompaction a minimum horizontal distance of 2 feet from outside hardscape limits and structure foundation. Proof-roll the bottom of the removal to identify yielding subgrade conditions (for additional removal, if necessary) under the observation of the geotechnical
- 4) onsite soil may be used for fill once they are cleaned of all organic material, rock, debris, and irreducible material larger than 6 inches. Import soil shall be equal to, or better than on-site soils in strength, expansion, and compressibility characteristics. All onsite and import soil material shall evaluate and test the import soils in order to confirm the quality of the material. Also, fill and backfill should be placed at, or slightly above optimum moisture in layers with loose thickness not greater than 6 inches. Each layer should be compacted to a minimum of 90% of the maximum dry density obtainable by the ASTM D 1557 test method. The upper one foot of subgrade below areas to be paved should
- be compacted to minimum of 95% of the maximum dry density. b. After completion of the removal of existing fill soils and prior to fill placement, scarify the exposed surface to a minimum depth of 6 inches, moisture condition as necessary to near optimum moisture content and recompact using heavy
- compaction equipment to an unvielding condition. 7. Where excavations are made to a depth greater than that indicated, such additional
- depth shall be filled with concrete having the same compressive strength as specified for a. Correct unauthorized and erroneous excavation at no change in Contract Time or
- Contract Sum. B. Notify Architect of unexpected subsurface conditions and discontinue affected Work in area
- until notified to resume work. C. Slope banks of excavations deeper than 4 feet to angle of repose or less until shored, per
- CalOSHA requirements for Type C Soil. 1. Machine slope banks of excavations to minimum 1 to 1 ratio horizontal to vertical or angle of repose, if less, until shored.
- a. Exception: If authorized in writing by Geotechnical Engineer. b. Slope must comply with local codes, ordinances and requirements of agencies

- D. Do not interfere with 45 degree influence line of bearing splay of foundations. 1. Avoid interference at footings by providing additional width, depth, and other provisions.
- having jurisdiction. See Section 00 31 00 - Available Project Information.
- E. Remove lumped subsoil, boulders, and rock up to 1/3 cu yd measured by volume.

F. Provide temporary means and methods, as required, to remove all water from excavations until directed by Architect. Remove and replace soils deemed suitable by classification and which are excessively moist due to lack of dewatering or surface water control.

3.05 SUBGRADE PREPARATION A. See Section 31 23 23 for subgrade preparation at general excavations.

- 3.06 FILLING AND BACKFILLING
- A. Do not fill or backfill until all debris, water, unsatisfactory soil materials, obstructions, and deleterious materials have been removed from excavation. B. See Section 31 23 23 for fill, backfill, and compaction requirements at general excavations.
- C. See Section 31 22 00 for rough and final grading and topsoil replacement requirements.
- A. Correct areas that are over-excavated and load-bearing surfaces that are disturbed; see Section 31 23 23 at no additional cost.

3.08 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for general requirements for field inspection and
- B. Provide for visual inspection of load-bearing excavated surfaces by Architect before placement
- C. Scarification, over excavation and all other excavations will be subject to the approval of the Soils Engineer.

3.09 CLEANING A. Stockpile excavated material to be re-used in area designated on site in accordance with

- Section 31 22 00.
- B. Remove excavated material that is unsuitable for re-use from site. C. Remove excess excavated material from site.
- 1. Geotechnical engineer or other consitant as selected by District to test soils prior to export for disposition.

3.10 PROTECTION A. Divert surface flow from rains or water discharges from the excavation.

- B. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil
- C. Protect open excavations from rainfall, runoff, freezing groundwater, or excessive drying so as to maintain foundation subgrade in satisfactory, undisturbed condition.
- D. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing. E. Keep excavations free of standing water and completely free of water during concrete

END OF SECTION

EXCAVATION SPECIFICATIONS

surfaces.

SECTION 32 11 23 AGGREGATE BASE COURSES

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Aggregate base course. B. Paving aggregates.

- A. Section 31 22 00 Grading: Preparation of site for base course.

- A. AASHTO T 180 Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg
- (10-lb) Rammer and a 457-mm (18 in.) Drop; 2018. B. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using
- Sand-Cone Method; 2015, with Editorial Revision (2016). D. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using
- Modified Effort (56,000 ft-lbf/ft3 (2,700 kN m/m3)); 2012, with Editorial Revision (2015). E. ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2011.
- F. ASTM D6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth); 2017. G. SSPWC - Greenbook: Standard Specifications for Public Works Construction; latest adopted

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- D. Certificates of Conformance: Aggregate and sterilant materials. E. Aggregate Composition Test Reports: Results of laboratory tests on proposed and actual
- F. Compaction Density Test Reports.

- 3.05 FIELD QUALITY CONTROL A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection and
- accordance with ASTM D1556 or ASTM D6938.
- C. Results will be evaluated in relation to compaction curve determined by testing uncompacted material in accordance with AASHTO T 180, ASTM D698 ("standard Proctor"), or ASTM D1557
- D. If tests indicate work does not meet specified requirements, remove work, replace and retest. E. Proof roll compacted aggregate at surfaces that are under slabs-on-grade and paving.
- 3.06 CLEANING
- stockpile area to prevent standing surface water.
 - **END OF SECTION**

1.05 QUALITY ASSURANCE

- C. Soil sterilization.
- 1.02 RELATED REQUIREMENTS
- B. Section 32 12 16 Asphalt Paving: Finish and binder asphalt courses. C. Section 32 13 13 - Concrete Paving: Finish concrete surface course.

D. Section 32 17 13 - Parking Bumpers: Concrete bumpers. 1.03 REFERENCE STANDARDS

- Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2012, with Editorial Revision (2015). C. ASTM D1556/D1556M - Standard Test Method for Density and Unit Weight of Soil in Place by

- B. Samples: 10 lb sample of each type of aggregate; submit in air-tight containers to testing
- C. Materials Sources: Submit name of imported materials source.
- materials used.

- B. Compaction density testing shall be performed on compacted aggregate base course in
- ("modified Proctor").

AGGREGATE BASE COURSES SPECIFICATIONS

- A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade
- B. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

shall apply.

- A. Regulatory Requirements: Where reference is made to Standard Specifications, the following
- authorities having jurisdiction, including ASTM D3763. For conditions not indicated
- 2. Perform on-site Work as indicated and referenced on Contract Drawings and as specified
- other materials shall not exceed limits permitted under current regulations of:
- C. Source Quality Control: Obtain materials from one source throughout.
- B. When aggregate materials need to be stored on site, locate where directed by District.

3. Protect stockpiles from erosion and deterioration of materials.

- 2.01 MATERIALS
- Section 200-2.2.
- D. Herbicide: Comply with all applicable environmental protection and hazardous materials laws
- 2. Comply with the "Healthy Schools Act" as amended in 2014. 3. Obtain product approval from District, prior to purchase and use.

5. Contractor shall be licensed with the State of California to apply sterilant.

6. Sterilant: Commercial grade for commercial application.

- 1. Perform off-site Work in public rights-of-way in accordance with requirements of otherwise on Contract Drawings, conform to Standard Details adopted by authorities having jurisdiction.
- B. The quantity of volatile organic compounds (VOC) used in weed killer, tack coat, primer and
- South Coast Air Quality Management District (AQMD).
- 1.06 DELIVERY, STORAGE, AND HANDLING A. When necessary, store materials on site in advance of need.
- C. Aggregate Storage, General:
- Prevent contamination.

PART 2 PRODUCTS

and regulations .

- A. Sub-Base Material: Existing or imported materials as recommended in geotechnical report.
- Refer to Document 00 31 00 Availabe Project Information. B. Aggregate Type Class II: Coarse or crushed aggregate, conforming to Municipality, SSPWC
- C. Coarse Aggregate: Pit run washed stone; free of shale, clay, friable material and debris. 1. Graded in accordance with ASTM D2487 Group Symbol GW.
- 1. Comply with current EPA acceptable standard and the California Department of Pesticide Regulations for soils sterilant.

4. Sterilant: Selected as appropriate for the environment in which is it to be placed.

- 1. Separate differing materials with dividers or stockpile separately to prevent intermixing.
 - a. Use three consecutive points set on the same slope together so that any variation from a straight grade can be detected.
 - expense to District. 4. Areas having drainage gradients of 2 percent or more, provide elevation stakes, set with
 - a. Intermediate stakes may be set by using a tightly-drawn string line over the tops of b. Grade stakes must be set at all grade breaks, grade changes, etc.

- d. Substitutions: See Section 01 60 00 Product Requirements.
- 2.02 SOURCE QUALITY CONTROL A. See Section 01 40 00 - Quality Requirements, for general requirements for testing and analysis

7. Payment for soil sterilization: Include full compensation for application and all materials

B. Where aggregate materials are specified using ASTM D2487 classification, testing of samples for compliance shall be provided before delivery to site. C. If tests indicate materials do not meet specified requirements, change material and retest.

b. Pro-Serve Inc.; Bare-Spot Monobor-Chlorate: www.pro-serveinc.com.

D. Provide materials of each type from same source throughout the Work.

3.02 PREPARATION

A. Stockpiling:

of aggregate materials.

PART 3 EXECUTION

and incidental work required.

Acceptable Manufacturers:

8. Application Rate: Follow manufacturer recommendations.

c. Casoron 50W by Uniroyal Chemical Co., Inc.

a. Dow AgroSciences; Spike 80DF: www.dowagro.com.

- 3.01 EXAMINATION
- A. Establishment of Grades 1. Set grade stakes per Section 01 70 00 - Execution and Closeout Requirements. 2. All work shall conform to the lines, elevations, and grades shown on the Drawings.
- b. Report any such variation to the Architect. Contractor shall be responsible for any error in the grade of the finished work. 3. Grade or location stakes lost or disturbed, shall be reset by the Surveyor at no additional
- instrument, at grid intervals of 25 feet.

5. Areas having drainage gradients of less than 2 percent; provide elevation stakes, set with

a. Grade stakes must be set at all grade breaks, grade changes, etc. B. Verify that survey bench marks and intended elevations for the work are as indicated. C. Verify substrate has been inspected, gradients and elevations are correct, and is dry.

 Clear and level storage sites prior to stockpiling of material. 2. Stockpile all materials, including approved material available from excavation and

grading, in the manner and at the locations designated.

- 3. Aggregates shall be stockpiled on the cleared and leveled areas designated by the Owner Representative to prevent segregation.
 - B. Soil Sterilant: Sterilize soil areas to receive paving.
 - 2. Apply soil sterilant in accordance with manufacturer's instructions and applicable
 - 3. Take care to confine application to the areas to be paved. Sterilant shall not be applied
 - C. Correct irregularities in substrate gradient and elevation by scarifying, reshaping, and re-

 - 3.03 INSTALLATION A. Place and compact aggregate base material in accordance with ASTM D3763, Subsection 301-
 - B. Application of Base Course: 1. After preparing the subgrade, Avoid all vehicular or machine traffic on the subgrade.
 - b. Rake and hand tamp all cuts, ruts, and breaks in the surface of the subgrade that are
 - 2. Do not permit continued use of sections of prepared subgrade for hauling, so as to cut up
 - 1. It is required that areas of exterior asphalt pavement be underlain by a layer of aggregate base material which meets the requirements, Thickness of base layer is as shown on the Drawings and varies per the Usage Type area. a. It is required that the upper 12 inches of soils below asphalt pavement base material

- 4. Materials obtained from different sources shall be stockpiled separately.
- environmental regulations
- within 2 feet of planting areas.
- D. Do not place aggregate on soft, muddy, or frozen surfaces.

vehicular traffic and 90 percent at pedestrian-only traffic.

- 2. Place aggregate base below curbs and gutters and paving also, compacted to 95 percent at
- a. Should it be necessary to haul over the prepared subgrade, drag and roll the traveled way as frequently as may be necessary to remove ruts, cuts, and breaks in
- not removed by the above operations. c. Equip with pneumatic tires all equipment used for transporting materials over the prepared subgrade.
- or deform it from the true cross-section. Protect the prepared subgrade from all traffic. 3. Maintain the surface in its finished condition until the succeeding layer is placed. C. Under Bituminous Concrete Paving:
 - be over-excavated and consist predominantly of satisfactory soil materials and/or approved imported fill. 1) Engineered Fill: See Section 31 23 23 - Fill.

scarified to the recommended depth of 8 inches, moisture conditioned to achieve

b. It is required that the exposed bottom surface soils, below overexcavation, be

- re-compacted to a minimum 90 percent relative compaction before any fill materials are placed. 2. The above subgrade preparation recommendations are based on the assumption that soils encountered during field exploration are representative of soils throughout the site.
 - a. However, there can be unforeseen and unanticipated variations in soils between points of subsurface exploration. For this reason, the actual subgrade preparation will have to be determined on the basis of in-grading observations and testing performed by representatives of the project geotechnical consultant.
 - 3. Provide grade stakes and elevations by a California Licensed Surveyor (LS) for the Geotechnical Engineer. a. Verify that the over-excavation depths, shown on the construction drawings for

optimum moisture content, but not higher than 2 percent above optimum, and then

- asphalt concrete pavement structural sections, have been achieved prior to re-4. Correct irregularities by dressing down or filling as may be required, to bring areas to true subgrade elevations
- 5. Where filling is required, scarify the subgrade to bond the new material to the in place material; use additional material as required at no additional cost. Subject to the approval of the Architect.

E. Place aggregate in maximum 4 inch layers and roller compact to specified density.

H. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to

- 6. Remove excess material from the site to a legal disposal area. D. Under Portland Cement Concrete Paving: 1. Compact to 95 percent of maximum dry density and 90 percent at pedestrian-only traffic.
- F. Level and contour surfaces to elevations and gradients indicated. G. Add small quantities of fine aggregate to coarse aggregate as appropriate to assist

reduce moisture content. I. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

Apply herbicide to finished surface.

3.04 TOLERANCES A. Subgrade Tolerances:

1. Subgrade for Pavement: Do not vary more than 0.02 ft...

C. Scheduled Compacted Thickness: Within 1/4 inch.

D. Variation From Design Elevation: Within 1/2 inch.

2. Subgrade for Subbase or Base Material: Do not vary more than 0.04 ft.. 3. Variations within the above specified tolerances shall be compensating so that the average grade and cross section specified are met.

B. Flatness: Maximum variation of 1/4 inch measured with 10 foot straight edge.

DIV. OF THE STATE ARCHITEC APP. 03-120493 INC: REVIEWED FOR SS I DIFLS I HESTACS

DATE: 06/30/2020

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VENTURA COUNTY

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DSA RESUBMITTAL

04/17/2020)	
NO.	REASON	DATE

MOORPARK COLLEGE

Barsin Bet Govargez

Michael Ledbetter

WAYFINDING

PROJECT MANAGER Eman Bermani

613696000 SPECIFICATIONS

SECTION 31 23 23

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Filling, backfilling, and compacting for footings, paving, and site structures. B. Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

- A. Section 00 31 00 Available Project Information: Geotechnical report; bore hole locations and findings of subsurface materials.
- B. Section 01 57 13 Temporary Erosion and Sediment Control: Slope protection and erosion
- C. Section 03 30 00 Cast-in-Place Concrete. D. Section 31 22 00 - Grading: Removal and handling of soil to be re-used.
- E. Section 31 22 00 Grading: Site grading. F. Section 31 23 16 - Excavation: Removal and handling of soil to be re-used.

- A. Finish Grade Elevations: Indicated on drawings.
- B. Subgrade Elevations: Indicated on drawings.
- 1.04 REFERENCE STANDARDS
- A. AASHTO T 180 Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18 in.) Drop; 2018.
- B. ASTM D4829 Standard Test Method for Expansion Index of Soils; 2011.
- C. ASTM D1556/D1556M Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method; 2015, with Editorial Revision (2016).
- D. ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN m/m3)); 2012, with Editorial Revision (2015).
- E. ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified
- Soil Classification System); 2011. F. DTSC-Clean Fill - California Department of Toxic Substances Control - Clean Imported Fill
- Material; Current. G. Greenbook - Greenbook: Standard Specifications for Public Works Construction; latest adopted edition.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Soil Samples: 10 pounds sample of each type of fill; submit in air-tight containers to testing
- B. Structural Fill:
- Use general fill.
- Fill up to subgrade elevations.
- 3. Maximum depth per lift: 6 inches, compacted.
- 4. Compact to minimum 90 percent of maximum dry density.
- C. At Footings: Use general fill.
- Fill up to subgrade elevation.
- 3. Compact each lift to 90 percent of maximum dry density.
- 4. Do not backfill against unsupported foundation walls.
- 5. Backfill simultaneously on each side of unsupported foundation walls until supports are in place.
- D. Under Monolithic Paving: 1. Compact subsoil to 90 percent of its maximum dry density before placing fill.
- Use general fill.
- 3. Fill up to subgrade elevation. 4. Compact to 90 percent of maximum dry density.
- 5. See Section 32 11 23 for aggregate base course placed over fill.
- 3.05 TOLERANCES A. Top Surface of General Filling: Plus or minus 1 inch from required elevations.

B. Top Surface of Filling Under Paved Areas: Plus or minus 1/2 inch from required elevations.

GRADING SPECIFICATIONS

- 3.06 FIELD QUALITY CONTROL A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection and
- 1. Laboratory Tests and Analyses: Where backfill is required to be compacted to a specified density, tests for compliance shall be made in accordance with requirements specified in
- Section 01 40 00 Quality Requirements. B. Perform compaction density testing on compacted fill in accordance with ASTM D1556 or
- ASTM D6938. 1. Field inspections and testing shall be performed and submitted in accordance with
- requirements specified in Section 01 40 00 Quality Requirements. 2. Allow testing service to inspect and approve each subgrade and fill layer before further fill, backfill or construction Work is performed.
- 3. Alternate Density Test Method: a. Field density tests may also be performed by the nuclear method in accordance with
- ASTM D6938, providing that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D1556/D1556M.

- 1. Submit samples directly to Geotechnical Engineer for testing and analysis copy transmittals to Architect and District.
- . Materials Sources: Submit name of imported materials source.
- D. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used, including manufactured fill.
- E. Compaction Density Test Reports. F. Manufacturer's Instructions.
- G. Manufacturer's Qualification Statement.
- H. Specimen Warranty. I. Provide proof that all imported materials conform to the requirements of DTSC-Clean Fill Imported Fill Materials for School Sites by proper documentation for the imported materials.
- 1.06 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than ten years of documented experience. B. Testing Agency Qualifications: Independent firm specializing in performing testing and
- C. Copies of Documents at Project Site: Maintain at the project site a copy of each referenced document that prescribes execution requirements.

inspections of the type specified in this section.

- 1.07 DELIVERY, STORAGE, AND HANDLING A. When necessary, store materials on site in advance of need.
- 1. Separate differing materials with dividers or stockpile separately to prevent intermixing. Prevent contamination.

B. Correct defective Work within a five year period after Date of Substantial Completion.

B. When fill materials need to be stored on site, locate stockpiles where agreed to.

- 3. Protect stockpiles from erosion and deterioration of materials.
- A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

- 2.01 FILL MATERIALS A. General Fill: Subsoil excavated on-site.
 - 2. Free of lumps larger than 3 inches, rocks larger than 4 inches, and debris.
- 3. Complying with ASTM D2487 Group Symbol CL.
- B. Structural Fill: Subsoil excavated on-site. Graded.

 - b. In conjunction with each density calibration check, check the calibration curves furnished with the moisture gages in accordance with ASTM D6938. c. If field tests are performed using nuclear methods, make calibration checks of both
 - density and moisture gages at beginning of Work, on each different type of material encountered, and at intervals as directed by Architect or District's testing and inspection agency.
- C. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D 1557 ("modified Proctor") or AASHTO T 180.
- D. Non-compliance: If tests indicate work does not meet specified requirements, remove work,
- 1. Should tests of fill or backfill indicate non-compliance with required density, Contractor
- shall over-excavate, recompact and retest until specified density is obtained.
- provisions of the General Conditions. 3. Retesting to demonstrate compliance shall be by a testing laboratory acceptable to
- District and shall be at Contractor's expense. E. Frequency of Tests:
- Footing Subgrade Testing:
- a. For each strata of soil on which footings will be placed, perform at least one test to
- verify required design bearing capacities b. Subsequent verification and approval of each footing subgrade may be based on a
- visual comparison of each subgrade with related tested strata when acceptable to Geotechnical Engineer.
- 2. Paved Areas and Building Slab Subgrade Testing:
- a. Perform at least one field density test of subgrade for every 2,000 sf of paved area or building slab, but in no case fewer than three tests.
- b. In each compacted fill layer, perform one field density test for every 2,000 sf of overlaying building slab or paved area, but in no case fewer than three tests.
- 3. Foundation Wall Backfill Testing: Perform at least two field density tests at locations and elevations as directed.
- F. Proof roll compacted fill at surfaces that will be under slabs-on-grade.
- A. See Section 01 74 19 Construction Waste Management and Disposal, for additional
- B. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
- C. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water. **END OF SECTION**

2.03 SOURCE QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for general requirements for testing and analysis
- B. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.
- C. If tests indicate materials do not meet specified requirements, change material and retest.
- D. Provide materials of each type from same source throughout the Work.
- E. Comply with EPA/DTSC-Clean Fill requirements.

PART 3 EXECUTION

2. Free of organic matter, debris, and oversize particles (e.g., cobbles, rubble, etc. that are

3. Imported fill materials: The soil shall be tested for potential contamination in accordance

cobbles, rubble, etc. that are greater than 3 inches in the largest dimension).

b. Additionally, import soils shall not have any corrosion impacts to buried concrete;

c. Prior to import, geotechnical consultant shall evaluate and test the import soils in

a. Import sandy soil shall be free of organics, debris and oversize particles (e.g.,

and be non-expansive (Expansion Index less than 50 per ASTM D4829).

1. Exception: Concrete used under footings and foundations to correct over-excavation

a. The soil shall be tested for potential contamination in accordance with DTSC-Clean

3. Free of roots, rocks larger than 1/2 inch, subsoil, debris, large weeds and foreign matter.

5. Containing a minimum of 4 percent and a maximum of 25 percent inorganic matter.

1. Existing fill and alluvium or older alluvium may be considered suitable for re-use as

2. Expansive soils (EI>51) are not be placed with the upper 3 feet of subgrade soils

A. Geotextile Fabric: Non-biodegradable, non-woven; Geotex 801 manufactured by Propex

compacted fills provided the recommendations of the geotechnical report and

with DTSC-Clean Fill protocols. Submit to Geotechnical Engineer.

order to confirm the quality of the material.

5. Complying with ASTM D2487 Group Symbol CL.

shall be same as for footings and foundation.

G. Topsoil: Topsoil excavated on-site.

Fill protocols.

4. Acidity range (pH) of 5.5 to 7.5.

Geotextile Systems, geotextile.com.

6. Complying with ASTM D2487 Group Symbol OH.

7. Limit decaying matter to 5 percent of total content by volume.

H. Type F - Subsoil: Reused, free of rocks larger than 3 inch size, and debris.

observations of the geotechnical engineer are followed.

Unclassified.

4. On-site soils should only be used as specified in the Soils Report.

Grade in accordance with ASTM D2487 Group Symbol SP or SW.

C. Concrete for Fill: As specified in Section 03 30 00; compressive strength of 2500 psi.

D. Granular Fill - Fill Type GM, GW: Coarse aggregate, conforming to Uniform Standard

Specifications for Public Works Construction Off-Site Improvements standard.

material smaller than 1/4 inch in size.

larger than 3 inches, rocks larger than 4 inches. Fill shall contain at least fifty percent of

3.01 EXAMINATION

3.02 PREPARATION

- A. Verify structural or other backfill materials to be reused or imported are acceptable to the satisfaction of the Geotechnical Engineer. Approval shall be obtained in advance of re-use or importation onto the site.
- 1. The soil shall be tested for potential contamination in accordance with DTSC-Clean Fill
- 2. Provide imported fill materials compatible with on-site soils in addition to being suitable
- for its intended use with the following criterion, as allowed by the Geotechnical Engineer.
- Predominantly granular in nature. b. Containing no rocks larger than 6 inch maximum dimension.
- c. Free of organic material (loss on ignition less-than 2 percent).
- d. Very low expansion potential (with an Expansion Index less than 21).
- e. Low corrosion impact to the proposed improvements.
- B. Verify that survey bench marks and intended elevations for the Work are as indicated. C. Identify required lines, levels, contours, and datum locations.
- D. See Section 31 22 00 for additional requirements.
- E. Verify subdrainage, dampproofing, or waterproofing installation has been inspected. F. Verify structural ability of unsupported walls to support imposed loads by the fill.

G. Verify areas to be filled are not compromised with surface or ground water.

- A. Scarify and proof roll subgrade surface to a depth of 8 inches to identify soft spots. B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with Greenbook, Type II or concrete fill and compact to density equal to or greater than requirements for
- subsequent backfill material. C. Compact subgrade to density equal to or greater than requirements for subsequent fill
- D. Prior to placement of aggregate base course material at paved areas, compact subsoil to 95 percent of its maximum dry density in accordance with ASTM D1557.

E. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

- A. Fill to contours and elevations indicated using unfrozen materials.
- B. Fill up to subgrade elevations unless otherwise indicated. 1. Place fill soils compacted in horizontal lifts to a relative compaction of 90 percent or more in general accordance with ASTM D1557.
- 2. Lift thickness for fill soils will vary depending on the type of compaction equipment used
- but should generally be placed in horizontal lifts not exceeding 8 inches in loose
- 3. Place fill soils at slightly above optimum moisture content as evaluated by ASTM D1557. 4. Avoid damage to wet and dry utility lines when compacting fill and subgrade materials.
- C. Employ a placement method that does not disturb or damage other work. Do not disturb or damage foundation perimeter drainage and foundation waterproofing and protective cover utilities in trenches.
- D. Systematically fill and compact per geotechnical report. Do not fill over porous, wet, frozen or spongy subgrade surfaces.
- E. Maintain optimum moisture content of fill materials to attain required compaction density. F. Granular Fill: Place and compact materials in equal continuous layers not exceeding 6 inches
- compacted depth. G. Soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches
- compacted depth. 1. Expansive soils (EI>20) are not be placed with the upper 3 feet of subgrade soils. CBC
- Section 1803.5.3. H. Slope grade away from building minimum 2 inches in 10 feet, unless noted otherwise. Make
- gradual grade changes. Blend slope into level areas.
- Correct areas that are over-excavated.
- Load-bearing foundation surfaces: Fill with concrete. 2. Other areas: Use general fill, flush to required elevation, compacted to minimum 90 or
- 95 percent of maximum dry density in subgrade zone. J. Compaction Density Unless Otherwise Specified or Indicated: 1. Under paving, slabs-on-grade, and similar construction: 90 percent of maximum dry
- At other locations: 90 percent of maximum dry density. K. Reshape and re-compact fills subjected to vehicular traffic.
- L. Maintain temporary means and methods, as required, to remove all water while fill is being placed as required, or until directed by the Architect. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack of dewatering or

M. Remove surplus fill and backfill materials from site.

3.04 FILL AT SPECIFIC LOCATIONS A. Use general fill unless otherwise specified or indicated. DIV. OF THE STATE ARCHITECT APP. 03-120493 INC: REVIEWED FOR SS I DIFLS I HESTACS DATE: 06/30/2020

00 Dove Street, Suite # 10 ewport Beach, CA. 92660

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VENTURA COUNTY



DSA RESUBMITTAL

MOORPARK COLLEGE

Barsin Bet Govargez

Michael Ledbetter

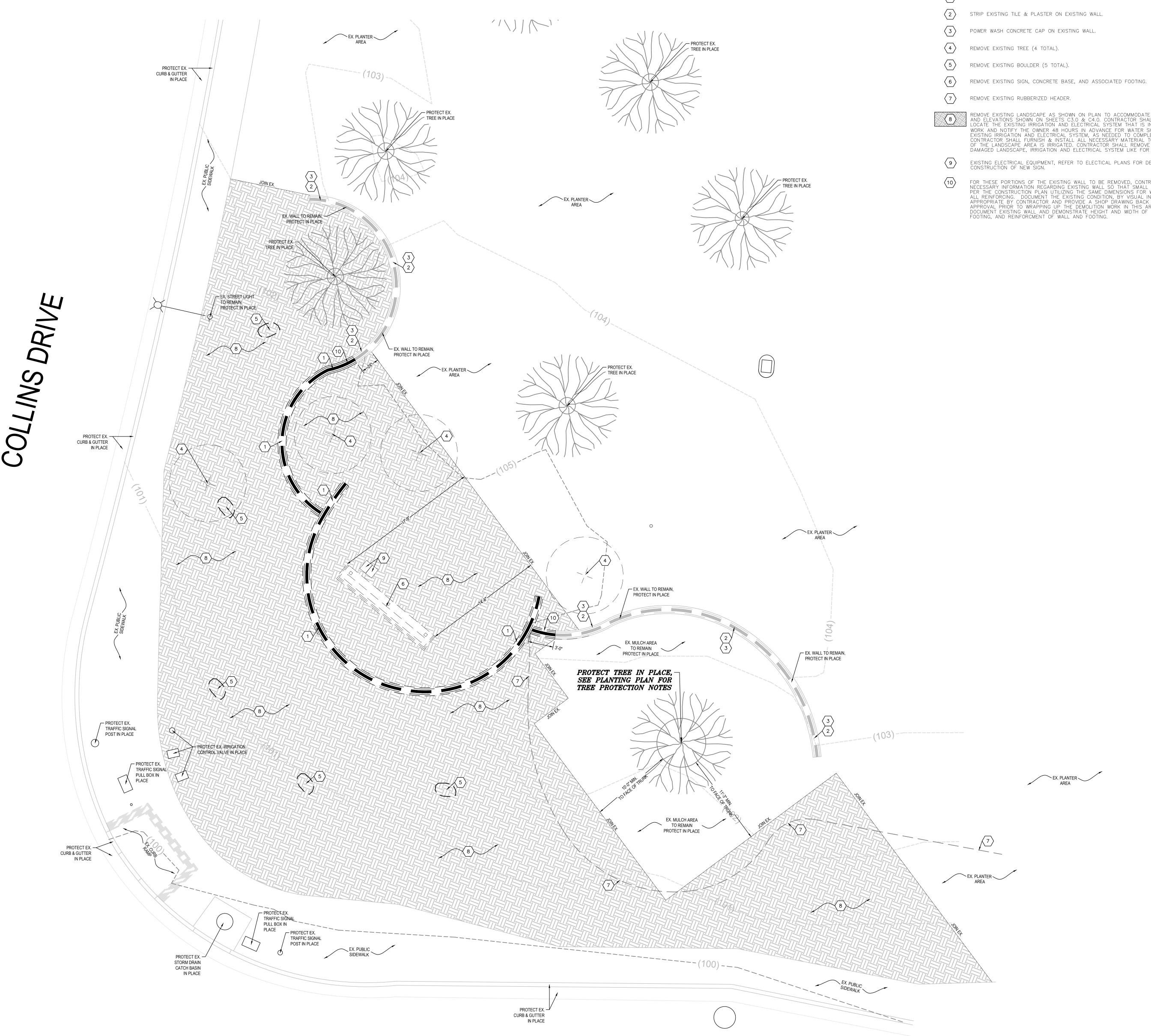
WAYFINDING

PROJECT MANAGER Eman Bermani

SPECIFICATIONS

613696000

C1.3



CAMPUS PARK DRIVE

DEMOLITION KEYNOTES:

- (1) REMOVE EXISTING WALL AND ASSOCIATED FOOTING.

REMOVE EXISTING LANDSCAPE AS SHOWN ON PLAN TO ACCOMMODATE THE NEW IMPROVEMENTS AND ELEVATIONS SHOWN ON SHEETS C3.0 & C4.0. CONTRACTOR SHALL FIELD VERIFY AND LOCATE THE EXISTING IRRIGATION AND ELECTRICAL SYSTEM THAT IS IN CONFLICT WITH PROPOSED WORK AND NOTIFY THE OWNER 48 HOURS IN ADVANCE FOR WATER SHUT OFF. REMOVE/RELOCATE EXISTING IRRIGATION AND ELECTRICAL SYSTEM, AS NEEDED TO COMPLETE THE NEW WORK. CONTRACTOR SHALL FURNISH & INSTALL ALL NECESSARY MATERIAL TO ENSURE THE REMAINING OF THE LANDSCAPE AREA IS IRRIGATED. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING DAMAGED LANDSCAPE, IRRIGATION AND ELECTRICAL SYSTEM LIKE FOR LIKE.

- EXISTING ELECTRICAL EQUIPMENT, REFER TO ELECTICAL PLANS FOR DEMOLTION AND RE—ROUTING FOR CONSTRUCTION OF NEW SIGN.
- FOR THESE PORTIONS OF THE EXISTING WALL TO BE REMOVED, CONTRACTOR SHALL DOCUMENT ALL NECESSARY INFORMATION REGARDING EXISTING WALL SO THAT SMALL PORTIONS OF IT CAN BE REBUILT PER THE CONSTRUCTION PLAN UTILIZING THE SAME DIMENSIONS FOR WALL AND FOOTINGS AS WELL AS ALL REINFORCING. DOCUMENT THE EXISTING CONDITION, BY VISUAL INSPECTION OR X-RAY AS DEEMED APPROPRIATE BY CONTRACTOR AND PROVIDE A SHOP DRAWING BACK TO ENGINEER FOR REVEIW AND APPROVAL PRIOR TO WRAPPING UP THE DEMOLITION WORK IN THIS AREA. SHOP DRAWING SHALL DOCUMENT EXISTING WALL AND DEMONSTRATE HEIGHT AND WIDTH OF WALL, DEPTH TO FOOTING, SIZE OF FOOTING, AND REINFORCMENT OF WALL AND FOOTING.

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Barsin Bet (Govargez	

PROJECT MANAGER
Eman Bermani DESIGN TEAM

Michael Ledbetter

MOORPARK COLLEGE WAYFINDING

613696000

DEMOLITION PLAN

SCALE:1"=5'



CAMPUS PARK DRIVE

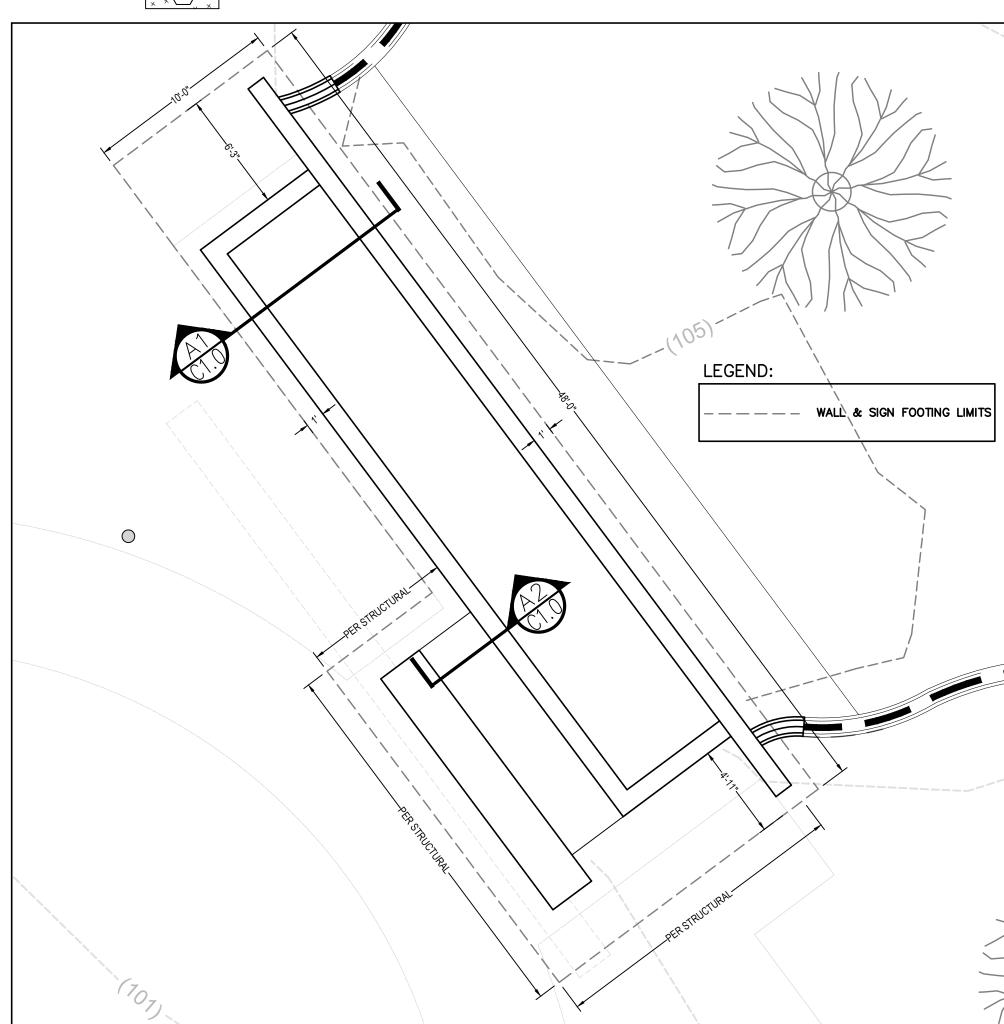
CONSTRUCTION KEYNOTES (INSTALL AND FURNISH):

MORTAR SET COBBLE W/ STEEL EDGING, SEE LANDSCAPE PLANS.

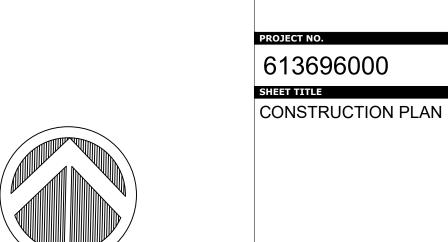
- $\left\langle 2\right\rangle$ APPLY NEW STUCCO FINISH TO EXISTING WALL.
- NEW WOODEN FENCE AND GATE, SEE ARCHITECTURAL PLANS.
- 4 NEW SHOVEL-CUT EDGE.

5 NEW LANDSCAPE & IRRIGATION, SEE LANDSCAPE PLANS.

- 6 NEW LOW C.I.P. CONCRETE PLANTER WALL, SEE ARCHITECTURAL PLANS. SEE DETAIL 'X/C3.0' FOR FOOTING OUTLINE.
- 7) NEW TALL C.I.P. CONCRETE PLANTER WALL, SEE ARCHITECTURAL PLANS. SEE DETAIL 'X/C3.0' FOR FOOTING OUTLINE.
- 8 NEW MONUMENT SIGN, SEE ARCHITECTURAL PLANS. SEE DETAIL 'X/C3.0' FOR FOOTING OUTLINE.
- NEW 4" THICK CONCRETE PAVEMENT W/ 4 x 4 W/ 2.9 x 2.9 MESH REINF. PLACED AT MID—HEIGHT ON A MINIMUM 12 INCH THICK LAYER OF SUBGRADE COMPACTED TO 90% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM—D1557. NATURAL GREY W/ MEDIUM BROOM FINISH. SEE SPECS SECTION 'E/C1.1.'
- NEW 8" NYLOPLAST DRAIN, SEE SHEET C4.0 FOR MORE INFORMATION.
- REBUILD THESE PORTIONS OF THE EXISTING WALL, CONTRACTOR SHALL UTILIZE SHOP DRAWING OF ASBUILT CONDITION DOCUMENTED DURING DEMOLTION TO INSTALL A NEW WALL THAT MATCHES THE EXISTING CONDITION LIKE FOR LIKE. INSTALL NEW SECTIONS OF WALL TO MATCH EXISTING BASED ON THE HEIGHT AND WIDTH OF WALL AND FOOTING AND ALL REINFORCEMENT AS SHOWN ON THE APPROVED AS—BUILT SHOP DRAWING. PROVIDE W/ #3X12"L DOWELS INTO ADJACENT NEW AND EXISTING WALLS @ 12" O.C. VERTICALLY. OVER EXCAVATE AND RECOMPACT FOR THE NEW FOOTINGS OF THESE WALLS SHALL MATCH THE REQUIREMENTS OF THE NEW WALL, SEE NOTES ON DETAIL 'A1/C1.0'.
- $(\begin{array}{c} \times \\ \times \end{array})$ area behind sign to be 3" layer of mulch only, see Landscape plans for spec.



X FOOTING OUTLINE DETAIL



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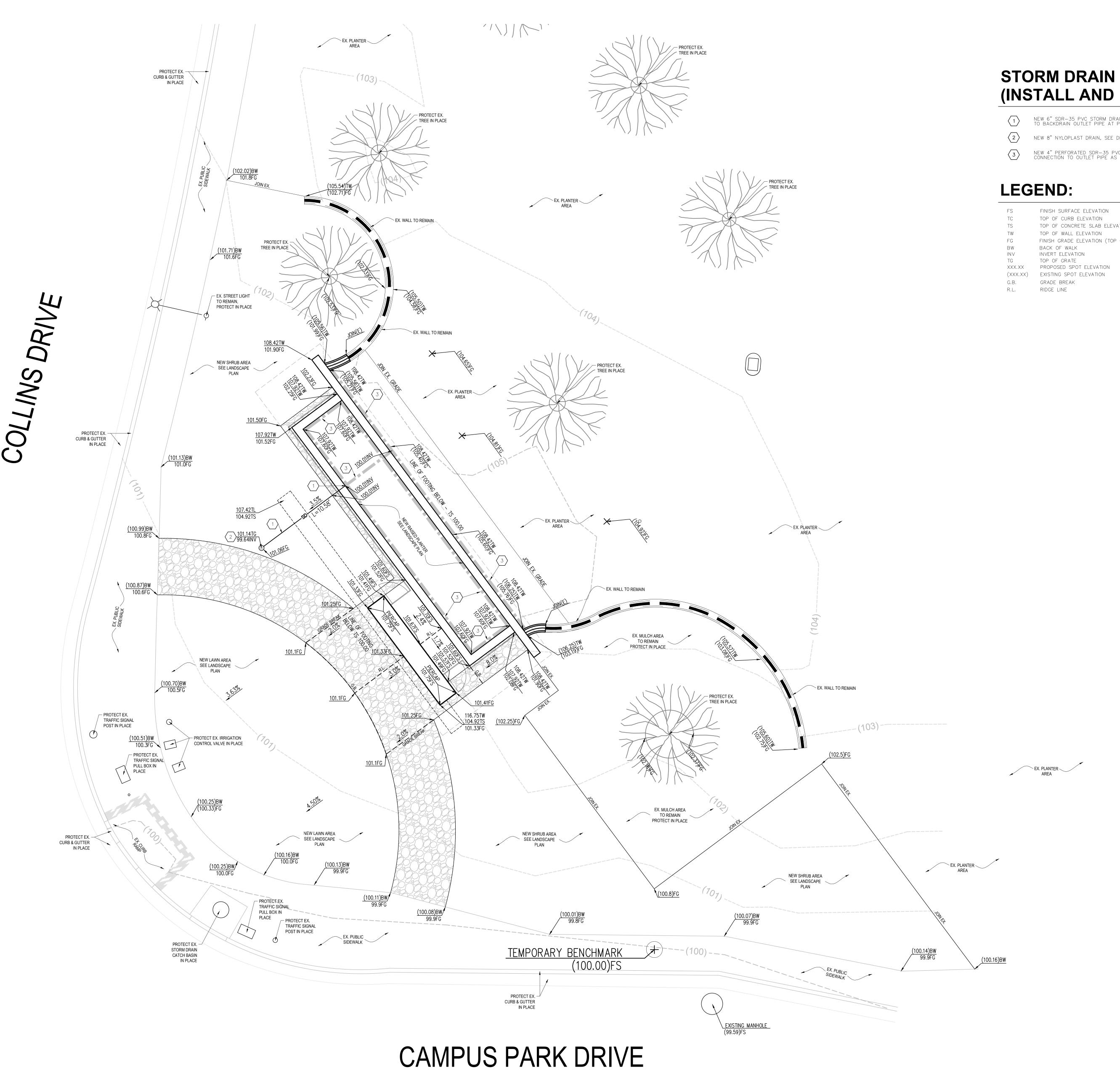
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WAYFINDING

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SCALE:1"=5'





- NEW 6" SDR-35 PVC STORM DRAIN PIPE, SEE DETAIL 'A/C1.0' FOR CONNECTION TO BACKDRAIN OUTLET PIPE AT PLANTER WALL.
- (2) NEW 8" NYLOPLAST DRAIN, SEE DETAIL 'B/C1.0.'
- NEW 4" PERFORATED SDR-35 PVC STORM DRAIN PIPE, SEE DETAIL 'A/C1.0' FOR CONNECTION TO OUTLET PIPE AS SHOWN.

 - TOP OF CONCRETE SLAB ELEVATION
- FINISH GRADE ELEVATION (TOP OF DECORATIVE ROCK GROUT WHERE OCCURS)

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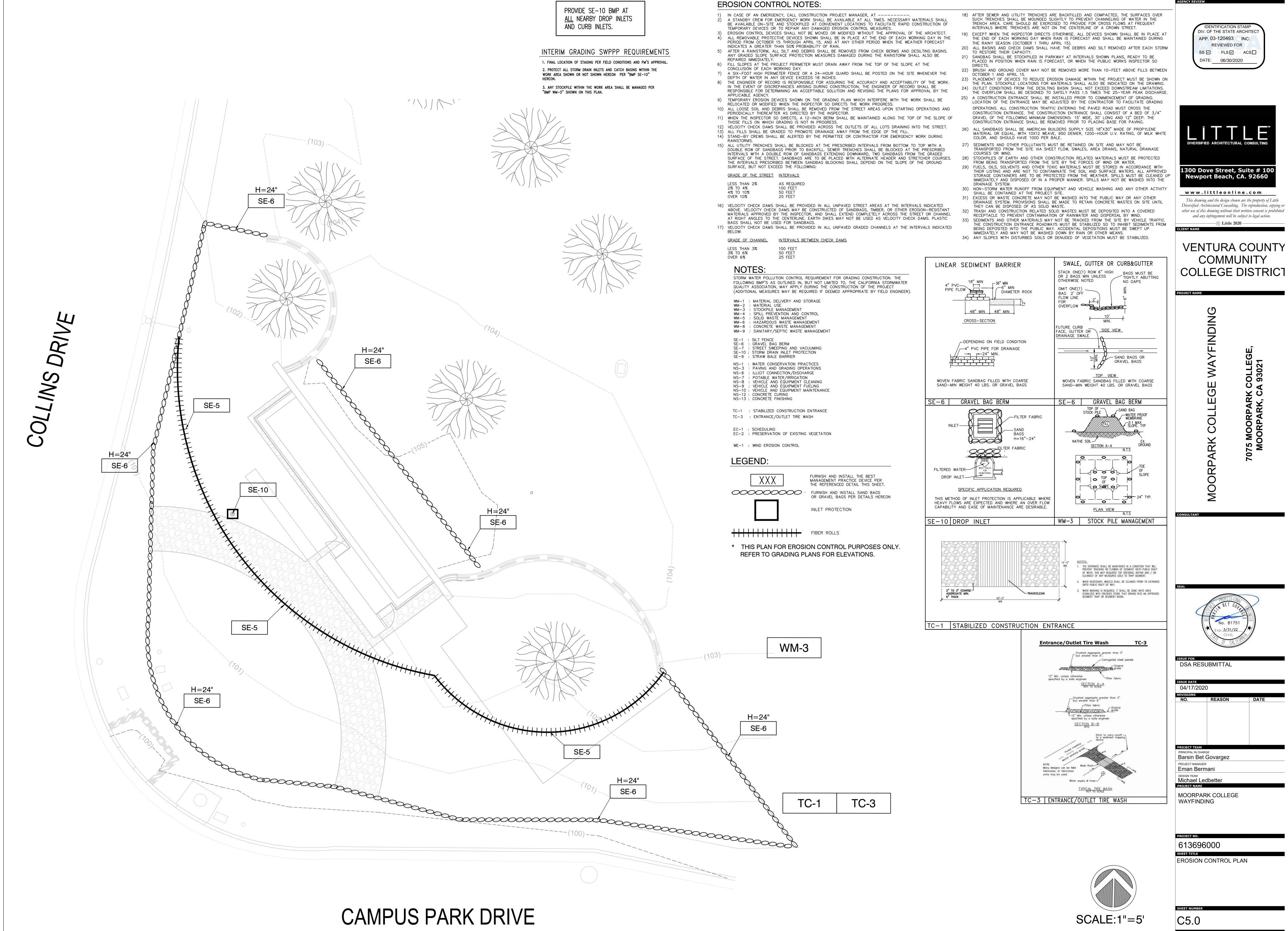
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GRADING & STORM DRAIN PLAN

C4.0

SCALE:1"=5'





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IRRIGATION SCHEDULE

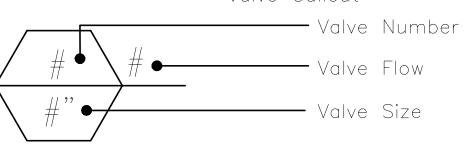
PS| MANUFACTURER/MODEL/DESCRIPTION 40 Hunter MP800SR PR05-06-PRS40-CV-F Turf Rotator, 6.0" pop-up with check valve, floguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360) MANUFACTURER/MODEL/DESCRIPTION Hunter | CZ-151-40 Drip Control Zone Kit. I-1/2" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 20 GPM to 60 GPM. 120 mesh stainless steel screen. I-1/2" inlet x dual 1"

1/2" FPT with barbed elbow outlet. Green=0.6gph, Blue=1.0gph, Red=2.0gph,

MANUFACTURER/MODEL/DESCRIPTION

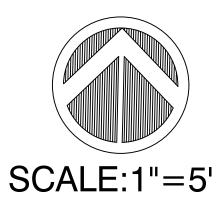
|", |-|/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal

Irrigation Lateral Line: PVC Class 200



IRRIGATION NOTES:

- 1. ALL LOCAL, MUNICIPAL AND STATE LAWS ARE HEREBY INCORPORATED INTO THESE PLANS AND SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 3. THE CONTRACTOR IS EXPECTED TO SECURE COPIES OF THE CURRENT ARCHITECTURAL AND ENGINEERING PLANS AND ANIMALIZE THEMSELVES WITH ALL ASPECTS OF THE PROJECT AS IT RELATES TO THEIR SCOPE.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY AND ALL PERMITS REQUIRED TO PERFORM THEIR SCOPE OF WORK.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO COMMENCING ANY WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LANDSCAPE ARCHITECT MAKES NO GUARANTEES ABOUT THEIR ACTUAL LOCATIONS. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT DISCREPANCIES ARE FOUND BETWEEN THE PLANS AND CONDITIONS IN THE FIELD.
- 6. THE IRRIGATION DESIGN SHOWN HERE-IN IS DIAGRAMMATIC AND SHOWN FOR GRAPHIC CLARITY ONLY. ALL LATERALS, VALVES, ETC. SHALL BE INSTALLED WITHIN THE LIMIT OF WORK AND LOCATED IN LANDSCAPE AREAS WHERE EVER POSSIBLE. CONTRACTOR WILL BE EXPECTED TO MAKE ADJUSTMENTS IN THE FIELD TO AVOID CONFLICTS WITH PROPOSED PLANTING AND ARCHITECTURAL IMPROVEMENTS.
- 7. CONTRACTOR SHALL INSTALL ALL PIPE UNDER PAVED AREAS (HARDSCAPE, PARKING LOTS, ETC.) INSIDE SLEEVING AS SHOWN ON THE LEGEND AND SPECIFICATIONS. INSTALL PER DETAILS PROVIDED. AT A MINIMUM, SLEEVES ARE TO BE 2X THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. SLEEVES SHALL EXTEND 6" MIN. PAST THE EDGE OF PAVED AREAS ABOVE.
- IRRIGATION HEADS SHALL BE INSTALLED WITH THE NOZZLE, SCREEN, AND ARCS SHOWN ON THE LEGEND. CONTRACTOR IS EXPECTED TO PERFORM MINOR ADJUSTMENTS IN THE FIELD TO LIMIT THE AMOUNT OF OVER-SPRAY ONTO ANY HARDSCAPE ELEMENT. WHERE OCCURS, AND AT NO ADDITIONAL COST TO THE OWNER, CONTRACTOR IS HEREBY DIRECTED TO REPLACE NOZZLES, SCREENS, ETC. WITH MORE APPROPRIATE RADIUS EQUIPMENT TO BETTER FIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
- DO NOT SHUT DOWN EXISTING SYSTEM LONGER THAN 48 HOURS IN ONE PERIOD. NOTIFY THE SCHOOL DISTRICT AT LEAST 48 HOURS IN ADVANCE OF ANY SUCH SHUTDOWNS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY IRRIGATION TO MAINTAIN SYSTEM ACTIVE IN OPERATION TO EXISTING LANDSCAPE AREAS AFFECTED OUTSIDE THE PROJECT WORK AREA BY ANY SUCH SHUTDOWNS.
- 10. MAINTAIN A SET OF 'AS-BUILT' DRAWINGS ON SITE DURING CONSTRUCTION AND DELIVER TO ARCHITECT AND DISTRICT PROJECT MANAGER AT CLOSE OF PROJECT.

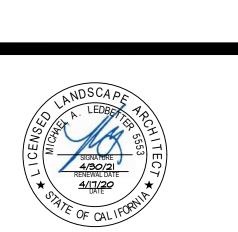




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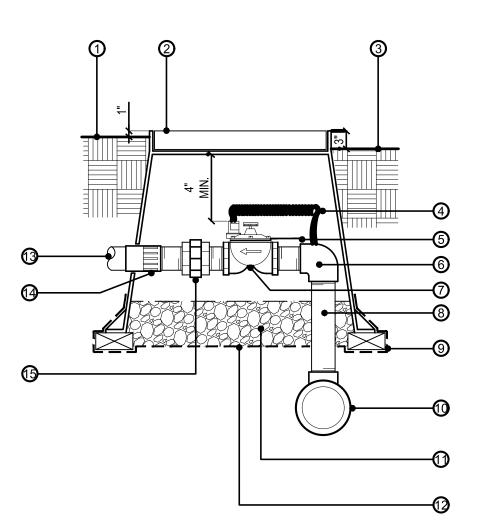
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DESIGN TEAM		

MOORPARK COLLEGE WAYFINDING

613696000 IRRIGATION PLAN AND

UNDERGROUND SERVICE ALER



1) FINISH GRADE IN TURF AREAS 2 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO

HARDSCAPE EDGE. HEAT BRAND "RCV" AND CONTROL STATION # ONTO LID. (3) FINISH GRADE IN SHRUB AREAS

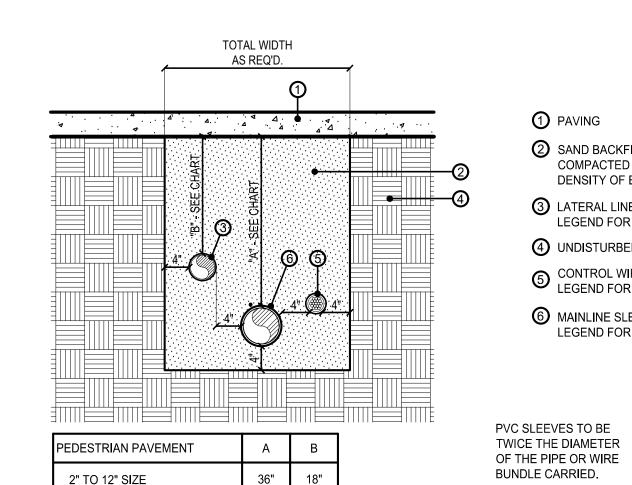
S VALVE ID TAG 6 SCH. 80 PVC THREADED ELL O CONTROL VALVE, SEE LEGEND FOR SPECS 8 SCH 80 PVC NIPPLES (TYP). LENGTH AS REQUIRED

(4) BRICK SUPPORTS (1) IRRIGATION MAINLINE 3/4" ROCK GRAVEL 2 CUBIC FEET

(3) LATERAL (4) SCH. 80 PVC FEMALE ADAP. (5) SCH. 80 UNION

12 LANDSCAPE FABRIC

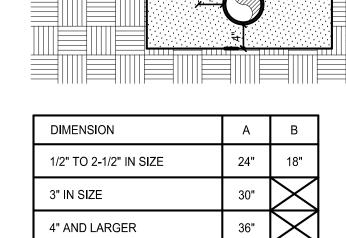
4 24" WIRE LOOP



42" 30"

1 PAVING 2 SAND BACKFILL COMPACTED TO THE DENSITY OF EXISTING SOIL 3 LATERAL LINE SEE LEGEND FOR SPECS 4 UNDISTURBED SOIL (5) CONTROL WIRE SEE LEGEND FOR SPECS 6 MAINLINE SLEEVE, SEE

LEGEND FOR SPECS



TOTAL WIDTH

1 FINISH GRADE

② CLEAN COMPACTED BACKFILL

4 UNDISTURBED SOIL

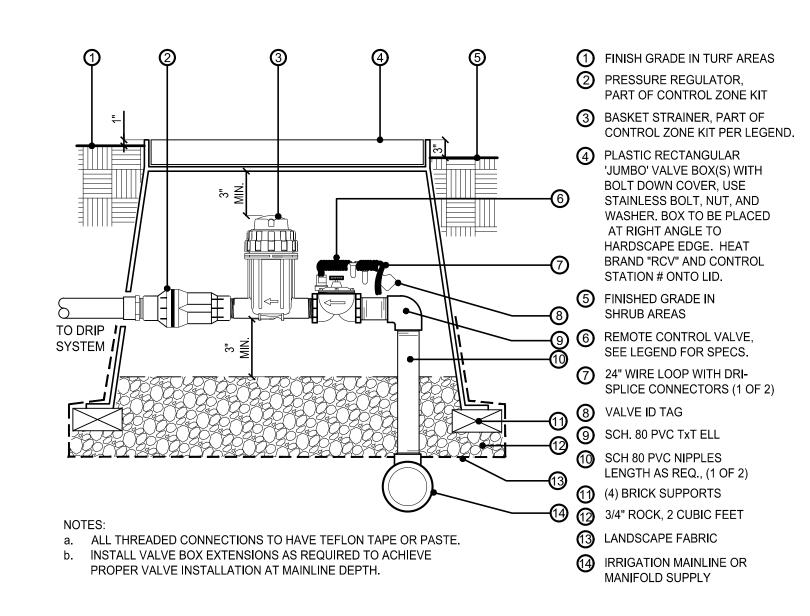
(5) CONTROL WIRES, SEE

6 MAINLINE - SEE PLANS

AND LEGEND

3 LATERAL LINE - SEE PLANS AND LEGEND

AS REQ'D.



A DRIP ZONE CONTROL KIT N.T.S.

NOTES:
a. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.

PEMOTE CONTROL VALVE
N.T.S.

SLEEVING N.T.S.

2" TO 12" SIZE

2" TO 12" SIZE

VEHICULAR PAVEMENT

B TRENCHING N.T.S.

VENTURA COUNTY COMMUNITY

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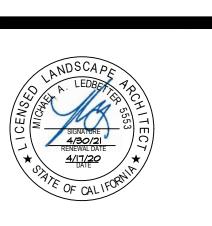
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DATE: 06/30/2020

APP. 03-120493 INC:

COLLEGE DISTRICT PROJECT NAME



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PRINCIPAL IN CHARG		
Barsin Bet (Govargez	
PROJECT MANAGER		
Raymond G	Samo	
DESIGN TEAM		
Michael Led	dbetter	
PROJECT NAME		

MOORPARK COLLEGE WAYFINDING

PROJECT NO. 613696000

IRRIGATION DETAILS



1.1. RELATED DOCUMENTS:

1.1.1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO WORK OF THIS SECTION.

1.2. DESCRIPTION OF WORK:

1.2.1. THE WORK CONSISTS OF FURNISHING LABOR, TOOLS, MACHINERY, MATERIALS, AND PROCESSES REQUIRED TO COMPLETE THE IRRIGATION SYSTEM DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.

1.2.2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO INDICATE AND SPECIFY A COMPLETE IRRIGATION SYSTEM INSTALLED READY FOR USE WITHOUT FURTHER COST IN LABOR OR MATERIALS TO THE OWNER.

1.3. QUALITY ASSURANCE:

1.3.1. SUBCONTRACT WORK TO A SINGLE FIRM SPECIALIZING IN IRRIGATION WORK. CONTRACTOR SHALL POSSESS ALL LICENSES AND PERMITS REQUIRED PERFORMING THE WORK OF THIS CONTRACT INCLUDING A C-27 LANDSCAPING LICENSE.

1.4. SUBMITTALS:

1.4.1. THE CONTRACTOR SHALL FURNISH THE ARTICLES. EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME IN THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT, OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

1.4.2. THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT CATALOG DATA AND FULL DESCRIPTIVE LITERATURE FOR APPROVAL OF ITEMS DIFFERENT THAN THOSE SPECIFIED.

1.4.3. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE SUCH MATERIALS FROM THE SITE AT HIS OWN EXPENSE.

1.4.4. APPROVAL OF ANY ITEM, ALTERNATE OR SUBSTITUTE INDICATES ONLY THAT THE PRODUCT(S) APPARENTLY MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS ON THE BASIS OF THE INFORMATION OR SAMPLES SUBMITTED.

1.4.5. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTY SHALL ONLY SUPPLEMENT THE GUARANTEE.

1.5. GUARANTEE:

1.5.1. FURNISH GUARANTEE IN ACCORDANCE WITH THE GENERAL CONDITIONS, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE - AT THE CONCLUSION OF THE MAINTENANCE PERIOD - A COMPLETE WATER IRRIGATION SYSTEM, INCLUDING NON-SETTLING OF THE BACKFILL IN TRENCHES WHICH, IF OCCURS, SHALL BE CORRECTED, INCLUDING REPAIRS AND/OR REPLACEMENT OF ANY MATERIAL DAMAGED THEREBY OR THEREFROM.

1.5.2. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTY SHALL ONLY SUPPLEMENT THE GUARANTEE.

PART 2 - PRODUCTS

2.1. MATERIALS:

2.1.1. PRESSURE PIPE: COMPLY WITH FOLLOWING:

2.1.1.1. PVC PLASTIC PRESSURE LINES: FOR PIPING UPSTREAM OF REMOTE CONTROL VALVES AND QUICK COUPLERS. ALL TWO (2) INCHES AND LARGER SHALL BE CLASS 315 POLYVINYL CHLORIDE (PVC) SIMPSON OR APPROVED EQUAL. ALL ONE AND ONE-HALF (1-1/2) INCHES AND SMALLER SHALL BE TYPE I, GRADE 2, DESIGNATED AS PVC 1220, SCHEDULE 40.

2.1.1.2. NON-PRESSURE PIPE: (DOWNSTREAM FROM REMOTE CONTROL VALVES): COMPLY WITH FOLLOWING:

2.1.2. PLASTIC NON-PRESSURE LINES: FOR PIPING DOWNSTREAM OF REMOTE CONTROL VALVES, TYPE 1, GRADE 2 (IMPACT MODIFIED), AS DESIGNATED AS PVC 1220, CLASS 200, (SDR21), CONFORMING TO COMMERCIAL STANDARDS CS256-63.

2.1.3. IDENTIFICATION: FURNISH PLASTIC PIPE CONTINUOUSLY AND PERMANENTLY MARKED WITH FOLLOWING INFORMATION: MANUFACTURER'S NAME OR TRADE MARK, SIZE, CLASS AND TYPE OF PIPE, WORKING PRESSURE AT 73.4 DEGREES F., AND NATIONAL SANITATION FOUNDATION (NSF) RATING.

PIPE FITTINGS AND CONNECTIONS: COMPLY WITH FOLLOWING:

2.2. FITTINGS AND CONNECTIONS:

2.2.1. POLYVINYL CHLORIDE PIPE FITTINGS AND CONNECTIONS: TYPE II, GRADE 1, SCHEDULE 40, HIGH IMPACT MOLDED FITTINGS. MANUFACTURED FROM VIRGIN COMPOUNDS AS SPECIFIED FOR PIPING TAPERED SOCKET OR MOLDED THREAD TYPE, SUITABLE FOR EITHER SOLVENT WELD OR SCREWED CONNECTIONS. MACHINE THREADED FITTINGS AND PLASTIC SADDLE AND FLANGE FITTINGS ARE NOT ACCEPTABLE. FURNISH FITTINGS PERMANENTLY MARKED WITH FOLLOWING INFORMATION: NOMINAL PIPE SIZE, TYPE AND SCHEDULE OF MATERIAL AND NATIONAL SANITATION FOUNDATION (NSF) SEAL OF APPROVAL. PVC FITTING SHALL CONFORM TO ASTM D2464 AND D2466 AND BE SUITABLE FOR NON-POTABLE WATER USE.

2.2.2. FLEXIBLE RISERS SHALL BE OF LINE SIZE IPS, PVC PLASTIC THREADED ADAPTERS SECURELY HELD TO APPROXIMATELY 4.6" LONG SYNTHETIC RUBBER OR FLEX-VINYL HOSE SHANKS, 85 POUND MINIMUM. KING BROS., EXCALIBRE OR EQUAL.

2.2.3. SOLVENT CEMENTS SHALL COMPLY WITH ASTM D2564. SOCKET JOINTS SHALL BE MADE PER RECOMMENDED PROCEDURES FOR JOINING PVC PLASTIC PIPE AND FITTINGS WITH PVC SOLVENT CEMENT BY THE PIPE AND FITTING MANUFACTURER AND PROCEDURES OUTLINED IN THE APPENDIX OF ASTM D2564.

2.2.4. THREAD LUBRICANT SHALL BE TEFLON RIBBON-TYPE, OR APPROVED EQUAL, SUITABLE FOR THREADED INSTALLATIONS AS PER MANUFACTURER'S RECOMMENDATIONS.

2.3. VALVES: MANUFACTURER'S STANDARD, OF TYPE AND SIZE INDICATED, AND AS FOLLOWS:

2.3.1. REMOTE CONTROL VALVES SHALL BE OF THE TYPE AND SIZE DESIGNATED ON THE DRAWINGS.

2.3.2. QUICK COUPLER VALVES (EXISTING)

2.3. SPRINKLER HEADS:

2.3.1. SPRINKLER HEADS SHALL BE OF THE TYPES AND SIZES WITH DIAMETER (OR RADIUS) OF THROW, PRESSURE, NOZZLE DISCHARGE AND/OR OTHER DESIGNATIONS INDICATED ON THE DRAWINGS. ALL SPRINKLER HEADS OF THE SAME TYPE AND SIZE SHALL BE OF THE SAME MANUFACTURER.

2.4. VALVE BOXES:

2.4.1. FOR REMOTE CONTROL VALVES: 10" X 19" NOM. PLASTIC VALVE BOX WITH TOP UNLESS NOTED OTHERWISE ON DRAWINGS.



PART 3 - EXECUTION

3.1. SYSTEM DESIGN:

3.1.1. ALL SCALED DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO PROCEEDING WITH WORK UNDER THIS CONTRACT.

3.1.2. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES SUCH AS POWER, TELEPHONE, DOMESTIC WATER, WATER, AND TILE DRAINS. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN EXCAVATING OR WORKING IN THESE AREAS AND COORDINATION AND COOPERATION BETWEEN THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR IS REQUIRED AS THE WORK PROGRESS TO THE AREA. CONTRACTOR SHALL GIVE 24 HOURS NOTICE TO REPRESENTATIVE AS WORK PROGRESSES TO UNDERGROUND UTILITY AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY UTILITIES.

3.1.3. SHOULD UTILITIES NOT LOCATED OR MARKED BE FOUND DURING EXCAVATION, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER AND SHALL DISCONTINUE WITH WORK IN THE AREA, EXCEPT NECESSARY EMERGENCY WORK, TO REPAIR OR PREVENT DAMAGE UNTIL INSTRUCTIONS ARE GIVEN TO THE CONTRACTOR BY THE OWNER'S REPRESENTATIVE.

3.1.4. FAILURE TO NOTIFY THE OWNER OF DISCOVERY OF SUCH UTILITIES OR DAMAGE THERETO WILL RESULT IN THE CONTRACTOR BEING LIABLE FOR ANY AND ALL DAMAGE CAUSED TO THE UTILITIES AS A RESULT OF HIS ACTIONS.

3.1.5. THE CONTRACTOR SHALL, BEFORE STARTING WORK ON THE IRRIGATION SYSTEM, CAREFULLY NOTE ALL FINISH GRADES IN ORDER TO SATISFY HIMSELF THAT HE MAY PROCEED WITH THE WORK AND TO RESTORE FINISH GRADES TO ORIGINAL CONTOURS BEFORE COMPLETION.

3.1.6. THE INSTALLATION OF ALL IRRIGATION MATERIALS. INCLUDING PIPE. SHALL BE COORDINATED WITH THE LANDSCAPE DRAWINGS TO AVOID INTERFERING WITH THE TREES, SHRUBS, OR OTHER PLANTING.

3.1.7. LAY OUT SPRINKLER HEADS AND MAKE ANY MINOR ADJUSTMENTS REQUIRED DUE TO DIFFERENCE BETWEEN SITE AND DRAWINGS. ANY SUCH DEVIATIONS IN LAYOUT SHALL BE WITHIN THE INTENT OF THE ORIGINAL DRAWINGS, AND WITHOUT ADDITIONAL COST TO THE OWNER. WHEN DIRECTED BY THE OWNER, THE LAYOUT SHALL BE APPROVED BEFORE INSTALLATION.

3.1.8. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWING WHEN IT IS OBVIOUS IN THE FIELD THAT PREVIOUSLY UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST, THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

3.1.9. WATER SUPPLY: THE CONTRACTOR SHALL CONNECT TO THE EXISTING IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS.

3.1.10. WORKMANSHIP AND PROCEDURE: THE ROUTING OF THE PRESSURE SUPPLY LINES AS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. LOCATE ALL PRESSURE SUPPLY LINES IN PLANTING AREAS. CROSS PERPENDICULAR UNDER PAVEMENT IN A SLEEVE AS DESCRIBED IN THESE SPECIFICATIONS.

3.2. INSTALLATION:

3.2.1. GENERAL: UNLESS OTHERWISE INDICATED. COMPLY WITH REQUIREMENTS OF UNIFORM PLUMBING CODE.

3.2.1.1. EXCAVATION OF TRENCHES: EXCAVATE TRENCHES, PREPARE SUB-GRADE AND BACKFILL TO LINE AND GRADE WITH SUFFICIENT ROOM FOR PIPES FITTINGS, TESTING AND INSPECTING OPERATIONS. DO NOT BACKFILL UNTIL THE PIPE SYSTEM HAS BEEN SUBJECTED TO A HYDROSTATIC TEST AS SPECIFIED.

3.2.1.2. DEPTH OF TRENCH:

3.2.1.2.1. POLYVINYL CHLORIDE PRESSURE LINE......18" MIN. 3.2.1.2.2. POLYVINYL CHLORIDE NON-PRESSURE LINE....12" MIN.

3.2.1.3. SUBSOIL SHALL BE FREE OF ALL ROCKS OVER ONE (1) INCH DIAMETER, DEBRIS, AND LITTER PRIOR TO USE AS BACKFILL.

3.2.1.4. REPAIR ANY LEAKS AND REPLACE ALL DEFECTIVE PIPE OR FITTINGS UNTIL LINES MEET TEST REQUIREMENTS. DO NOT COVER ANY LINES UNTIL THEY HAVE BEEN CHECKED AND APPROVED FOR TIGHTNESS, QUALITY OF WORKMANSHIP AND MATERIALS.

3.2.1.5. BACKFILL TRENCHES, AFTER APPROVAL OF PIPING, WITH SUITABLE AND APPROVED MATERIAL, TAMPING SOIL AROUND PIPE AND THOROUGHLY COMPACTING ALL TRENCH FILLS UNTIL 90% COMPACTION HAS BEEN ACHIEVED.

3.2.1.6. BACKFILL MATERIAL SHALL BE AN APPROVED SOIL, FREE FROM ROCKS AND CLODS. PROVIDE BACKFILL UNDER, AROUND AND ABOVE TOP OF PIPE FOR PVC PLASTIC PIPE AND

3.2.2. INSTALLATION OF POLYVINYL CHLORIDE PIPE:

3.2.2.1. BECAUSE OF THE NATURE OF PLASTIC PIPE AND FITTINGS, EXERCISE CAUTION IN HANDLING, LOADING AND STORING, TO AVOID DAMAGE.

3.2.2.2. THE PIPE AND FITTINGS SHALL BE STORED UNDER COVER UNTIL USING, AND SHALL BE TRANSPORTED IN A VEHICLE WITH A BED LONG ENOUGH TO ALLOW THE LENGTH OF PIPE TO LAY FLAT SO AS NOT BE SUBJECTED TO UNDUE BENDING OR CONCENTRATED EXTERNAL LOAD AT ANY POINT.

3.2.2.3. ANY PIPE THAT HAS BEEN DENTED OR DAMAGED SHALL BE DISCARDED UNLESS SUCH DENT OR DAMAGED SECTION IS CUT OUT AND PIPE REJOINED WITH A COUPLING.

3.2.2.4. TRENCH DEPTH SHALL BE AS SPECIFIED ABOVE FROM THE FINISH GRADE TO THE TOP OF THE PIPE. THE BOTTOM OF THE TRENCH SHALL BE FREE OF ROCKS, CLODS, AND OTHER SHARP-EDGED OBJECTS

3.2.2.5. PIPE ENDS AND FITTINGS SHALL BE WIPED WITH "MEK" PRIMER, OR APPROVED EQUAL BEFORE WELDING SOLVENT IS APPLIED. WELDED JOINTS SHALL BE GIVEN A MINIMUM OF 15 MINUTES TO SET BEFORE MOVING OR HANDLING. ALL FIELD CUTS SHALL BE BEVELED TO REMOVE BURRS AND EXCESS MATERIAL BEFORE FITTING AND GLUING TOGETHER.

3.2.2.6. PIPE SHALL BE SNAKED FROM SIDE-TO-SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.

3.2.2.7. CENTER LOAD PIPE WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING AND SLIPPING UNDER PRESSURE. LEAVE JOINTS EXPOSED FOR SITE OBSERVATION DURING TESTING.

3.2.2.8. NO WATER SHALL BE PERMITTED IN THE PIPE UNTIL SITE OBSERVATION HAS BEEN COMPLETED AND A PERIOD OF AT LEAST 24 HOURS HAS ELAPSED FOR SOLVENT WELD SETTING AND CURING.

3.2.2.9. PLASTIC TO METAL JOINTS SHALL BE MADE WITH PLASTIC MALE ADAPTERS, METAL NIPPLE HAND TIGHTENED, PLUS ONE TURN WITH A STRAP WRENCH.

3.2.2.10. PLASTIC TO PLASTIC JOINTS: SOLVENT-WELD, USING SOLVENT RECOMMENDED BY PIPE MANUFACTURER ONLY.

3.2.2.11. SOLVENT-WELD JOINTS: ASSEMBLE PER MANUFACTURER'S RECOMMENDATIONS.

3.2.3. NOT USED

3.2.4. REMOTE CONTROL WIRING:

3.2.4.1. DIRECT BURIAL CONTROL WIRE SIZES: AS SHOWN AND SPECIFIED HEREIN BEFORE.

3.2.4.2. PROVIDE ONE CONTROL WIRE AND ONE COMMON GROUND WIRE TO SERVICE EACH VALVE IN SYSTEM. PROVIDE 4-FOOT MINIMUM EXPANSION LOOP AT EACH VALVE TO PERMIT REMOVAL AND MAINTENANCE OF VALVES.

3.2.4.3. INSTALL CONTROL WIRES AT LEAST 12" BELOW FINISH GRADE AND MINIMUM OF 4" FROM ANY PIPE OR FITTINGS EXCEPT AT TERMINAL POINTS.

3.2.4.4. INSTALL CONTROL WIRES AND IRRIGATION PIPING IN COMMON TRENCHES WHEREVER POSSIBLE.

3.2.4.5. IN CASE OF DAMAGE TO ANY COMMON OR CONTROL WIRE, CONTRACTOR IS TO RUN AN EXTRA COMMON AND CONTROL WIRE ON EACH LEG OF MAINLINE TO THE FARTHEST RCV BACK TO THE CONTROLLER.

3.2.4.6. CONTROL WIRE SPLICES: ALLOW ONLY ON RUNS OF MORE THAN 300-FEET. SPLICES AS

3.2.4.6.1. STRIP OFF MINIMUM OF 2-1/2" OF INSULATION FROM EACH WIRE.

3.2.4.6.2. TWIST ON SCOTCHLOK ELECTRICAL SPRING CONNECTOR, MINIMUM FOUR COMPLETE

3.2.4.6.3. SEAL CONNECTOR IN EPOXY RESIN.

3.2.4.6.4. TAPE COMPLETED SPLICE WITH SCOTCH 33 ELECTRICAL TAPE.

3.2.4.7. NUMBERING AND TAGGING: IDENTIFY DIRECT BURIAL CONTROL WIRES FROM AUTOMATIC VALVES TO TERMINAL STRIPS OF CONTROLLER AT TERMINAL STRIP BY TAGGING WIRE WITH NUMBER OF CONNECTED VALVES.

3.2.6. REMOTE CONTROL VALVES:

3.2.6.1. INSTALL REMOTE CONTROL VALVES IN LOCATIONS APPROXIMATELY AS SHOWN ON THE DRAWINGS, WITH A COVER OF 8 INCHES MINIMUM OVER TOP OF FLOW CONTROL STEM. INSTALL A UNION TYPE CONNECTION. FIT WITH PLASTIC VALVE BOX AND COVER.

3.2.6.2. EACH REMOTE CONTROL VALVE SHALL BE TAGGED WITH "CHRISTY TAG" INDICATING CONTROLLER NUMBER AND SEQUENCE NUMBER. 3.2.7. VALVE BOX:

3.2.7.1. INSTALL VALVE BOXES AS SHOWN ON DETAIL. INSTALL NO MORE THAN ONE VALVE PER BOX.

3.2.7.2. VALVE BOX LIDS SHALL BE AND BRANDED AS SPECIFIED ON DETAILS.

3.2.8. SPRINKLER HEADS:

3.2.8.1. ALL SPRINKLER HEADS SHALL BE INSTALLED AS PER DETAILS SHOWN.

3.2.8.2. NOZZLE SIZE OF ALL HEADS SHALL BE ADJUSTED TO SUIT ANY PARTICULAR CONDITIONS OF THE AREA. THIS SHALL BE DONE AFTER THE SYSTEM HAS BEEN THOROUGHLY TESTED, IMMEDIATELY AFTER WRITTEN NOTIFICATION BY THE LANDSCAPE ARCHITECT TO DO SO.

3.2.9. QUICK COUPLER ASSEMBLY: (EXISTING, P.I.P.)

3.2.10. FLUSHING OF SYSTEMS:

3.2.10.1. AFTER PIPING AND RISERS ARE IN PLACE, BUT PRIOR TO THE INSTALLATION OF THE SPRINKLER HEADS, A FULL HEAD OF WATER SHALL BE USED TO FLUSH OUT THE SYSTEM. AFTER SYSTEM IS THOROUGHLY FLUSHED, CAP ALL RISERS.

3.2.10.2. CONNECTION TO MAIN: CONNECT TO EXISTING IRRIGATION SYSTEM SERVING OVERALL CAMPUSE IN APPROXIMATE LOCATION AS INDICATED ON THE PLANS.

3.2.11. TESTING:

3.2.11.1. GENERAL: NOTIFY ARCHITECT/ENGINEER IN WRITING WHEN TESTING WILL BE CONDUCTED. CONDUCT TESTS IN PRESENCE OF ARCHITECT/ENGINEER.

3.2.11.2. PRESSURE TEST

3.2.11.2.1.ALL PRESSURE LINES SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF 125 LBS. PER SQUARE INCH AND ALL NON-PRESSURE LINES SHALL BE TESTED UNDER THE EXISTING STATIC PRESSURE AND BOTH ARE PROVEN WATERTIGHT. (CONTRACTOR TO SUPPLY ALL EQUIPMENT NEEDED FOR TESTING.)

3.2.11.2.2.PRESSURE SHALL BE SUSTAINED IN THE LINES FOR NOT LESS THAN FOUR HOURS IF LEAKS DEVELOP, THE JOINTS SHALL BE REPLACED AND THE TEST REPEATED UNTIL THE ENTIRE SYSTEM IS PROVEN WATERTIGHT.

3.2.11.2.3.TESTS SHALL BE OBSERVED AND APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO BACKFILL. BACKFILLING TRENCHES PRIOR TO INSPECTION WILL NOT BE ALLOWED AND ALL PREMATURELY FILLED TRENCHES SHALL BE SUBJECT TO REOPENING AS DIRECTED BY THE LANDSCAPE ARCHITECT.

3.2.11.3. COVERAGE TESTING: PERFORM OPERATIONAL TESTING AFTER HYDROSTATIC TESTING IS COMPLETED, BACKFILL IS IN PLACE, AND SPRINKLER HEADS ADJUSTED TO FINAL

3.2.11.4. AFTER COMPLETION OF LANDSCAPE WORK, CAREFULLY ADJUST HEADS SO THEY WILL BE FLUSH WITH LAWN AREAS OR NOT MORE THAN 1/2" ABOVE FINISH GRADE IN GROUNDCOVER AREA.

3.3. SITE OBSERVATION VISITS BY THE ARCHITECT:

3.3.1. IN ALL CASES WHERE SITE OBSERVATION VISITS OF THE IRRIGATION SYSTEM WORK IS REQUIRED AND/OR WHERE PORTIONS OF THE WORK ARE SPECIFIED TO BE PERFORMED UNDER THE DIRECTION AND/OR SITE OBSERVATION OF THE ARCHITECT OR HIS REPRESENTATIVE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF THE TIME SUCH SITE OBSERVATION AND/OR DIRECTION IS REQUIRED.

3.3.2. SITE OBSERVATION WILL BE REQUIRED FOR THE FOLLOWING PARTS OF THE WORK:

3.3.2.1. FINAL SITE OBSERVATION VISIT BY THE ARCHITECT AND PERFORMANCE TEST SHALL BE AT THE SAME TIME AS THE FINAL SITE OBSERVATION OF THE SPECIFIED LANDSCAPE MAINTENANCE PERIOD

3.4. RECORD DRAWINGS:

3.4.1. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL PROVIDE A RECORD SET OF DRAWINGS SHOWING THE SPRINKLER SYSTEM WORK. INFORMATION SHALL BE ON BROWN LINE SEPIA TRANSPARENCIES FOR REPRODUCTION PURPOSES.

3.4.2. ANY CHANGES IN LOCATION OF ITEMS OR TYPE OF INSTALLATIONS FROM THAT SHOWN ON DRAWINGS SHALL BE SO INDICATED ON THE RECORD DRAWINGS.

3.4.3. VALVES SHALL BE NUMBERED AND CORRESPONDING NUMBERS SHALL BE SHOWN ON THE RECORD DRAWINGS.

3.4.4. ALL REMOTE CONTROL VALVES, SHUT-OFF VALVES, QUICK COUPLER VALVES SHALL BE LOCATED BY MEASURED DIMENSIONS. DIMENSIONS SHALL BE GIVEN TO PERMANENT OBJECTS AND SHALL BE TO THE NEAREST ONE-HALF FOOT.

3.4.5. ON THE INSIDE SURFACE OF THE COVER OF EACH AUTOMATIC CONTROLLER, PREPARE AND MOUNT A COLOR-CODED CHART SHOWING THE VALVES, MAINLINE, AND SPRINKLER HEADS SERVICED BY THAT PARTICULAR CONTROLLER. ALL VALVES SHALL BE NUMBERED TO MATCH THE OPERATION SCHEDULE AND THE DRAWINGS. ONLY THOSE AREAS CONTROLLED BY THAT CONTROLLER SHOULD BE SHOWN. THIS CHART SHALL BE A PLOT PLAN, ENTIRE OR PARTIAL, SHOWING BUILDING, WALKS, ROADS AND WALLS. A PHOTOSTATIC PRINT OF THIS PLAN, REDUCED AS NECESSARY AND LEGIBLE IN ALL DETAILS, SHALL BE MADE TO A SIZE THAT WILL FIT INTO THE CONTROLLER COVER. THIS PRINT SHALL BE APPROVED BY THE ARCHITECT AND SHALL BE HERMETICALLY SEALED BY PLASTIC. THIS PLAN SHALL THEN BE SECURED TO THE BACK OF THE ENCLOSURE DOOR.

3.4.6. IMMEDIATELY UPON THE INSTALLATION OF ANY BURIED PIPE OR EQUIPMENT, THE CONTRACTOR SHALL INDICATE ON THE DRAWINGS THE LOCATIONS OF SAID EQUIPMENT. DIMENSIONS SHALL BE GIVEN FROM PERMANENT OBJECTS SUCH AS BUILDINGS, SIDEWALKS, CURBS AND DRIVEWAYS.

END OF SECTION 02810

DIV. OF THE STATE ARCHITEC APP. 03-120493 INC: REVIEWED FOR SS 🗹 D FLS 🗹 HESTACS 🗌 DATE: 06/30/2020

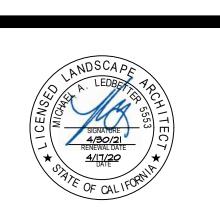


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VENTURA COUNTY

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COLLEGE DISTRICT PROJECT NAME



DSA RESUBMITTAL

ISSUE DATE 04/17/2020 PROJECT TEAM Barsin Bet Govargez PROJECT MANAGER Raymond Gamo

PROJECT NO.

MOORPARK COLLEGE

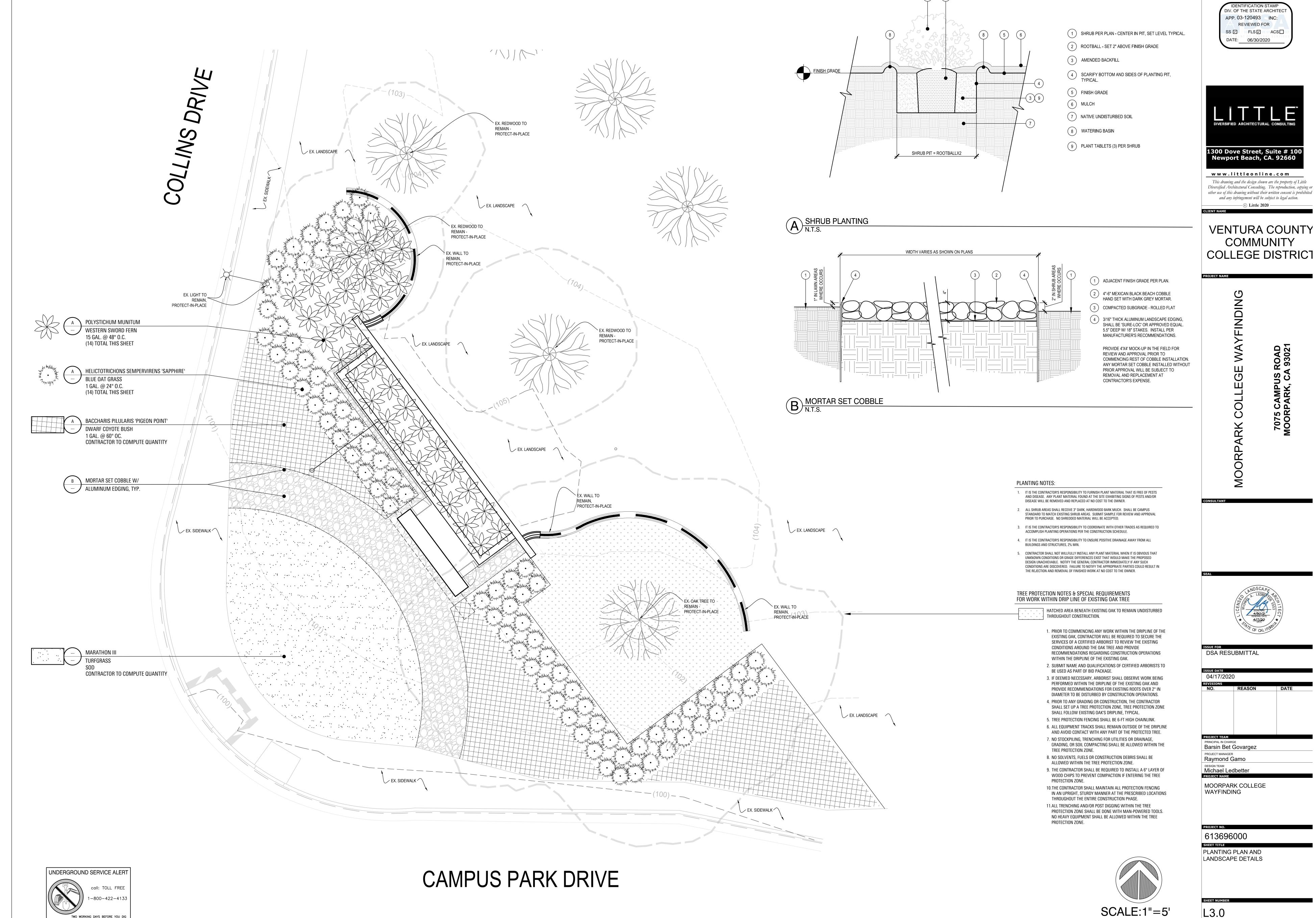
Michael Ledbetter

WAYFINDING

PROJECT NAME

IRRIGATION SPECIFICATIONS

613696000





1.1.1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2. SUMMARY

1.2.1. THIS SECTION INCLUDES PROVISIONS FOR THE FOLLOWING ITEMS:

1.2.1.1. NOT USED. 1.2.1.2. SHRUBS. 1.2.1.3. PLANTS.

1.2.1.4. GROUNDCOVER. 1.2.1.5. SODDING LAWN AREAS.

1.2.1.6. NOT USED 1.2.1.7. SOIL AMENDMENTS 1.2.1.8. FINISH GRADING.

1.2.1.9. MAINTENANCE PERIOD.

1.2.2. RELATED SECTIONS: THE FOLLOWING SECTIONS CONTAIN REQUIREMENTS THAT RELATE TO THIS SECTION.

1.2.3. UNDERGROUND SPRINKLER SYSTEM IS SPECIFIED IN DIVISION 2 SECTION, "UNDERGROUND IRRIGATION SYSTEM."

1.3. QUALITY ASSURANCE

1.3.1. SUBCONTRACT LANDSCAPE WORK TO A SINGLE FIRM SPECIALIZING IN LANDSCAPE WORK. THE CONTRACTOR SHALL POSSESS ALL LICENSES AND PERMITS REQUIRED TO PERFORM THE WORK INCLUDING A C-27 LANDSCAPING LICENSE.

1.3.2. SOURCE QUALITY CONTROL:

1.3.2.1. GENERAL: SHIP LANDSCAPE MATERIALS WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNING AUTHORITIES. COMPLY WITH REGULATIONS APPLICABLE TO LANDSCAPE MATERIALS.

1.3.2.2. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL.

1.3.2.3. ANALYSIS AND STANDARDS: PACKAGE STANDARD PRODUCTS WITH MANUFACTURER'S CERTIFIED ANALYSIS. FOR OTHER MATERIALS, PROVIDE ANALYSIS BY RECOGNIZED LABORATORY MADE IN ACCORDANCE WITH METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL AGRICULTURE CHEMISTS WHEREVER APPLICABLE.

1.3.2.4. TREES, SHRUBS, AND PLANTS: PROVIDE TREES, SHRUBS, AND PLANTS OF QUANTITY. SIZE. GENUS. SPECIES. AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK" PROVIDE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE. INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS, OR DISFIGUREMENT.

1.3.2.5. LABEL EACH TREE AND SHRUB WITH SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.

1.3.2.6. WHERE FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF TREES OR SHRUBS ARE SHOWN, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND LABEL WITH NUMBER TO ASSURE SYMMETRY IN PLANTING.

1.3.2.7. SELECTION: THE LANDSCAPE ARCHITECT MAY CHECK TREES AND SHRUBS EITHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE CONTRACTOR SHALL SUBMIT PHOTOGRAPHS TO LANDSCAPE ARCHITECT OF TYPICAL TREE (15 GAL. AND LARGER CONTAINER SIZES) FOR LANDSCAPE WORK. LANDSCAPE ARCHITECT RETAINS RIGHT TO FURTHER CHECK TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.

1.4. SUBMITTALS

1.4.1. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT.

1.4.2. PLANT AND MATERIAL CERTIFICATIONS:

1.4.2.1. CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNMENTAL AUTHORITIES.

1.4.2.2. MANUFACTURER'S OR VENDOR'S CERTIFIED ANALYSIS FOR SOIL AMENDMENTS AND FERTILIZER MATERIALS.

1.4.2.3. LABEL DATA SUBSTANTIATING THAT PLANTS, TREES, SHRUBS AND PLANTING MATERIALS COMPLY WITH SPECIFIED REQUIREMENTS.

1.4.2.4. PHOTOS OF ALL PROPOSED PLANT MATERIAL FROM NURSERY SHOWING TYPICAL SIZE AND HEALTH OF PLANTS TO BE PROVIDED AND INSTALLED. 1.5. DELIVERY. STORAGE AND HANDLING

1.5.1. PACKAGED MATERIALS: DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.

1.5.3. TREES AND SHRUBS: DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING DELIVERY.

1.5.4. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME.

1.6. JOB CONDITIONS

UNDERGROUND SERVICE ALERT

-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

1.6.1. UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER, WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATES, AS REQUIRED. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL PARTIES CONCERNED MUTUALLY AGREE UPON REMOVAL.

1.6.2. EXCAVATION: WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY LANDSCAPE ARCHITECT BEFORE PLANTING.

1.7. SEQUENCING AND SCHEDULING

1.7.1. PLANTING TIME: PROCEED WITH, AND COMPLETE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE, AND SHALL BE PERFORMED DURING THOSE PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED HORTICULTURAL PRACTICE.

1.7.2. COORDINATION WITH GROUNDCOVERS: PLANT TREES AND SHRUBS AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF GROUNDCOVER, UNLESS OTHERWISE ACCEPTABLE BY LANDSCAPE ARCHITECT. IF PLANTING OF TREES AND SHRUBS OCCUR AFTER GROUNDCOVER, PROTECT GROUNDCOVER AREAS AND PROMPTLY REPAIR DAMAGE TO GROUNDCOVER RESULTING FROM PLANTING OPERATIONS.

1.8. SPECIAL PROJECT WARRANTY

1.8.1. WARRANTY GROUNDCOVERS THROUGH SPECIFIED MAINTENANCE PERIOD, AND UNTIL FINAL ACCEPTANCE.

1.8.2. WARRANTY SHRUBS FOR A PERIOD OF 90 DAYS AFTER DATE OF FINAL ACCEPTANCE.

1.8.3. WARRANTY TREES, FOR A PERIOD OF ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. AGAINST DEFECTS INCLUDING DEATH AND FOR PERIOD OF 90 DAYS AFTER DATE OF UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND LANDSCAPE INSTALLER'S CONTROL.

1.8.4. REMOVE AND REPLACE TREES, SHRUBS, OR OTHER PLANTS FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD. MAKE REPLACEMENTS WITHIN 14 CALENDAR DAYS. REPLACE TREES AND SHRUBS, WHICH ARE IN DOUBTFUL CONDITION AT END OF WARRANTY PERIOD; UNLESS, IN OPINION OF LANDSCAPE ARCHITECT, IT IS ADVISABLE TO EXTEND WARRANTY PERIOD FOR A FULL GROWING SEASON.

1.8.5. ANOTHER WARRANTY SITE OBSERVATION VISIT WILL BE CONDUCTED AT END OF EXTENDED WARRANTY PERIOD, IF ANY, TO DETERMINE ACCEPTANCE OR REJECTION. REPLACEMENT SHALL BE THE PLANTS USED FOR SAME KIND AND SIZE AS SPECIFIED FOR LANDSCAPE WORK. REPLACEMENTS SHALL BE FURNISHED, AND PLANTED AS ORIGINALLY SPECIFIED.

PART 2 - PRODUCTS

2.1. SOIL AMENDMENTS

2.1.1. BARK MULCH: A 3-INCH MINUS BLEND, DARK COLORED PRODUCT RECOMMENDED FOR MULCHING IN SHRUB BEDS. PRODUCT AS NOTED ON THE DRAWINGS.

2.1.2. COMMERCIAL FERTILIZER: COMPLETE FERTILIZER OF NEUTRAL CHARACTER, WITH SOME ELEMENTS DERIVED FROM ORGANIC SOURCES AND CONTAINING THE FOLLOWING PERCENTAGES OF AVAILABLE PLANT NUTRIENTS:

2.1.2.1. PRE-PLANT FERTILIZER: PROVIDE FERTILIZER WITH NOT MORE THAN 1 PERCENT TOTAL NITROGEN; AND NOT LESS THAN 10 PERCENT AVAILABLE PHOSPHORIC ACID AND 10 PERCENT SOLUBLE POTASH.

2.1.2.2. POST-PLANT FERTILIZER: PROVIDE FERTILIZER WITH PERCENTAGE OF NITROGEN REQUIRED TO PROVIDE NOT LESS THAN 18 POUNDS OF ACTUAL NITROGEN, 6 PERCENT PHOSPHORIC ACID AND 8 PERCENT POTASSIUM. PROVIDE NITROGEN IN A FORM THAT WILL BE AVAILABLE DURING INITIAL PERIOD OF GROWTH; AT LEAST 50 PERCENT OF NITROGEN TO BE ORGANIC FORM.

2.1.2.3. PLANT TABLETS, AGRIFORM (20-10-5-) BLUE CHIP TABLETS 21 GRAM.

2.1.3. IRON SULPHATE, IRON SHALL BE EXPRESSED AS METALLIC-DERIVED FROM SULFATE-DEEP GREEN (FESO4OH2O) A MINIMUM ANALYSIS OF 200% AND 98.3% RETAINED ON A 10 MESH SCREEN.

2.2.3. GYPSUM, AGRICULTURAL GRADE GYPSUM SHALL BE A (CASO40H2O) CALCIUM SULFATE 94.3%. 90% SHALL PASS A 50-MESH SCREEN.

2.2.4. SOIL SULPHUR, SHALL BE ELEMENTAL SULPHUR (99.5%) COMMERCIALLY MANUFACTURED SO THAT A PURE SULPHUR PRODUCT IS USED.

2.2.5. ORGANIC SOIL CONDITIONER, SHALL BE A PRODUCT THAT AIDS THE STRUCTURE OF THE SOIL CONSISTING OF RAPIDLY DECAYING SLOWLY DECAYING, AND NON-DECAYING MATERIAL. NITROGEN (ORGANIC OR AMMONIC) 0.5%, PH LESS THAN 6.8 SALINITY (ECE X 103 AT 25° C) = 2.5, ASH CONTENT NOT TO EXCEED 10%. IRON (FE) EXPRESSED AS METALLIC 0.08% ORGANIC MATTER 35%. PROPERTIES: SCREEN ANALYSIS:

2.2.5.1. MESH + 0.2% 8 MESH + 25.7% 32 MESH + 5% MESH + 36.6% 12 MESH + 30.7% REMAINDER 0.9%

2.2.5.2. THE COMMERCIAL GRADE PRODUCT USED SHALL BE PLANT CHOICE SOIL AMENDMENT, ORGANIC RECYCLING WEST SOIL AMENDMENT, OR BUTLERS MILL LOAMEX OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.

2.2.6. PLANTING BACKFILL, SHALL BE A THOROUGHLY BLENDED MIXTURE OF EXCAVATED SOIL FROM THE PITS AND SOIL AMENDMENTS AT THE FOLLOWING MIXTURE SOIL CONDITIONER:

2.2.6.1. SOIL CONDITIONER 50% 2.2.6.2. ON SITE SOIL 50%

2.3. PLANT MATERIALS

2.3.1. QUALITY: PROVIDE TREES, SHRUBS, AND OTHER PLANTS OF SIZE, GENUS, SPECIES, AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK."

2.3.2. CONTAINER STOCK (1 GAL., 5 GAL., 15 GAL., BOXES) SHALL HAVE GROWN IN CONTAINER FOR AT LEAST SIX MONTHS, BUT NOT OVER TWO YEARS. NO CONTAINER PLANTS THAT HAVE CRACKED OR BROKEN BALLS OF EARTH, WHEN TAKEN FROM THE CONTAINER, SHALL BE PLANTED, EXPECT UPON SPECIAL APPROVAL. NO TREES WITH DAMAGED ROOTS OR BROKEN BALLS SHALL BE PLANTED.

2.3.3. TREES: NOT APPLICABLE

2.3.4. SHRUBS: PROVIDE SHRUBS OF THE HEIGHT AND WIDTH SHOWN OR LISTED REQUIRED BY ANSI Z60.1 FOR TYPE AND HEIGHT OF SHRUB REQUIRED.

2.4 SODDED AREAS

SOD: TPI (SPEC), CERTIFIED TURFGRASS SOD QUALITY; CULTIVATED GRASS SOD: TYPE INDICATED IN PLANT SCHEDULE ON DRAWINGS; WITH STRONG FIBROUS ROOT SYSTEM, FREE OF STONES, BURNED OR BARE SPOTS; CONTAINING NO MORE THAN 5 WEEDS PER 1000 SQ FT. MINIMUM AGE OF 18 MONTHS, WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT TEARING, WHEN SUSPENDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS.

TOPSOIL: EXCAVATED FROM SITE AND FREE OF WEEDS. WATER: CLEAN, FRESH AND FREE OF SUBSTANCES OR MATTER THAT COULD INHIBIT VIGOROUS GROWTH OF GRASS.

2.5. GROUNDCOVER

2.5.1. PROVIDE PLANTS ESTABLISHED AND WELL ROOTED IN FLAT REMOVABLE CONTAINERS, OR INTEGRAL PEAT POTS AND WITH NOT LESS THAN MINIMUM NUMBER AND LENGTH OF RUNNERS REQUIRED BY ANSI Z60.1 FOR THE POT SIZE SHOWN OR LISTED.

PART 3 - EXECUTION

3.1. PREPARATION - GENERAL

3.1.1. LAY OUT PLANTING AREAS SHALL MEAN ALL AREAS TO BE PLANTED WITH TREES, SHRUBS, GROUNDCOVERS AND AREAS FOR MULTIPLE PLANTINGS. STAKE LOCATIONS AND OUTLINE AREAS AND SECURE LANDSCAPE ARCHITECT'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE REQUIRED.

3.1.2. ALL ROCK AND OTHER GROWTH OR DEBRIS ACCUMULATED DURING THE DURATION OF THE PROJECT SHALL BE REMOVED FROM THE SITE. UPON COMPLETION OF ALL GRADING OPERATIONS, SOIL SAMPLES (3 LOCATIONS MIN.) SHALL BE TAKEN BY THE CONTRACTOR AND ANALYZED BY A SOIL LABORATORY. THE RESULTS OF THESE TESTS ARE TO BE REVIEWED BY THE LANDSCAPE ARCHITECT FOR ANY REQUIRED MODIFICATIONS TO SPECIFIED SOIL PREPARATION.

3.1.3. GRADING AND SOIL PREPARATION WORK SHALL BE PERFORMED ONLY DURING THE PERIOD WHEN BENEFICIAL AND OPTIMUM RESULTS MAY BE OBTAINED. IF THE MOISTURE CONTENT OF THE SOIL SHOULD REACH SUCH A LEVEL THAT WORKING IT WOULD DESTROY SOIL STRUCTURE, SPREADING AND GRADING OPERATIONS SHALL BE SUSPENDED UNTIL THE MOISTURE CONTENT IS INCREASED OR REDUCED TO ACCEPTABLE LEVELS AND THE DESIRED RESULTS ARE LIKELY TO BE OBTAINED.

3.1.4. ALL SCALED DIMENSIONS ARE APPROXIMATE. BEFORE PROCEEDING WITH ANY WORK, CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS.

3.1.5. QUANTITIES FOR PLANT MATERIALS ARE SHOWN FOR CONVENIENCE ONLY, AND NOT GUARANTEED. CHECK AND VERIFY COUNT AND SUPPLY SUFFICIENT NUMBER TO FULFILL INTENT OF DRAWINGS. CERTIFY ANY CLARIFICATIONS WITH THE LANDSCAPE ARCHITECT. ADEQUATELY STAKE, BARRICADE, AND PROTECT ALL IRRIGATION EQUIPMENT, MANHOLES, UTILITY LINES, AND OTHER EXISTING PROPERTY DURING ALL PHASES OF THE SOIL AMENDING PLANTING AND GRADING OPERATIONS.

3.1.6. UPON DELIVERY OF MATERIAL AND/OR COMPLETION OF ALL SOIL CONDITIONING AND GRADING BUT PRIOR TO INITIATING PLANTING OPERATIONS, THE LANDSCAPE ARCHITECT WITH THE HERETOFORE SPECIFIED SIGNED COPIES OF REQUIRED CERTIFICATES, TRIP SLIPS, AND INVOICES FOR SOIL PREPARATION MATERIALS, SHALL INVOICE SUCH MATERIAL, COMPARING THE TOTAL QUANTITIES OF EACH MATERIAL FURNISHED AGAINST THE TOTAL AREA TO EACH OPERATION. IF THE MINIMUM RATES OF APPLICATION HAVE NOT BEEN MET, THE LANDSCAPE ARCHITECT WILL REQUIRE THE DISTRIBUTION OF ADDITIONAL QUANTITIES OF THESE MATERIALS TO FULFILL THE MINIMUM APPLICATION REQUIREMENTS SPECIFIED AT NO COST TO OWNER.

3.2. FINISH GRADING

3.2.1. FINISH GRADING: FINISH GRADES SHALL BE AS INDICATED ON THE CIVIL ENGINEER'S DRAWINGS AND LANDSCAPE DRAWINGS.

3.2.2. FINISH GRADES SHALL BE MEASURED AS THE FINAL WATER COMPACTED AND SETTLED SURFACE GRADES: AND SHALL BE WITHIN PLUS OR MINUS 0.1 FOOT OF THE SPOT ELEVATIONS AND GRADE LINES INDICATED ON THE DRAWING.

3.2.3. FINISH GRADES SHALL BE MEASURED AT THE TOP SURFACE OF SURFACE

FLOATED OUT BEFORE PLANTING OPERATIONS ARE INITIATED.

DURING HIS GRADING AND CONDITIONING OPERATIONS.

3.2.4. MOLDING AND ROUNDING OF THE GRADES SHALL BE PROVIDED AT ALL CHANGES IN

SLOPE. 3.2.5. ALL UNDULATIONS AND IRREGULARITIES IN THE PLANTING SURFACES RESULTING FROM TILLAGE. ROTOTILLING AND ALL OTHER OPERATIONS SHALL BE LEVELED AND

3.2.6. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT AND AVOID DAMAGE TO SPRINKLER HEADS, IRRIGATION LINES, AND OTHER UNDERGROUND UTILITIES

3.2.7. FINAL FINISH GRADES SHALL INSURE POSITIVE DRAINAGE OF THE SITE WITH ALL SURFACE DRAINAGE AWAY FROM BUILDINGS, WALLS, AND TOWARD ROADWAYS, DRAINS AND CATCH BASINS.

3.2.8. FINAL GRADES SHALL BE ACCEPTABLE TO THE LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS WILL BE ALLOWED TO BEGIN.

3.2.9. PLANTING SURFACES SHALL BE GRADED WITH NO LESS THAN 2 PERCENT SURFACE SLOPE FOR POSITIVE DRAINAGE UNLESS OTHERWISE NOTED ON PLANS.

3.2.10. COMPACT THE SOIL MIX TO A RELATIVE COMPACITON OF 85% OF MODIFIED MAXIMUM DRY DENSITY (ASTM D1557).

3.2.11. FINAL GRADES WITHIN RAISED PLANTER WALLS BEHIND NEW SIGN SHALL BE DETERMINED AFTER ADEQUATE COMPACTING OF BACKFILL WITHIN RAISED PLANTER HAS BEEN ACHIEVED. FURTHER SETTLEMENT WITHIN THE RAISED PLANTER WILL NOT BE ACCEPTED. WHERE APPRECIABLE SETTLEMENT HAS OCCURRED WITHIN THE RAISED PLANTER PRIOR TO FINAL ACCEPTANCE AT THE END OF THE WARRANTY PERIOD, THE CONTRACTOR WILL BE REQUIRED TO ADDRESS AREAS THAT HAVE SETTLED AND RETURN THEM TO AS DESIGNED FINISH GRADES WITHIN THE RAISED PLANTER.

3.3. PREPARATION FOR SHRUB AREAS

3.3.2.1.1. "SCHEDULE OF PLANTING SOIL MIXTURE:

3.3.2.1.1.1. SOIL CONDITIONER: 6 CU. YD. PER 1,000 SQ. FT. 3.3.2.1.1.2. IRON SULPHATE: 20 LBS. PER 1,000 SQ. FT.

3.3.2.1.1.3. GYPSUM: 120 LBS. PER 1.000 SQ. FT. 3.3.2.1.1.4. PRE-PLANT FERTILIZER: 30 LBS. PER 1.000 SQ. FT.

3.3.2.2. SCHEDULE OF PLANTING SOIL MIXTURE IS FOR BIDDING PURPOSES ONLY. SOIL TEST MAY REDUCE OR INCREASE TOTAL SOIL AMENDMENT YARDAGE. ADJUSTMENT (PLUS OR MINUS) MAY BE NECESSARY. CONTRACTOR SHALL OBTAIN AT LEAST ONE SOIL TESTS OF FINAL GRADE AT SITE FOR SOIL MIXTURE RECOMMENDATIONS AND SUBMIT RESULTS TO LANDSCAPE ARCHITECT FOR THEIR RECORD. CONTRACTOR SHALL SUBMIT, IN ADDITION TO HIS BASE BID: UNIT COST FOR EACH SCHEDULE OF PLANTING SOIL MIXTURE.

3.4. DEEP WATERING AND WEED ABATEMENT:

3.4.1. AFTER COMPLETE INSTALLATION AND TESTING OF THE IRRIGATION SYSTEM, AND PREPARATION OF PLANTING AREAS, ALL PLANTING AREAS SHALL BE DEEP WATERED AND COMPACTED AND SETTLED BY CONTINUOUS APPLICATION OF IRRIGATION WATER UNTIL THE SOIL IS MOIST TO A MINIMUM DEPTH OF 8".

3.4.2. CARE SHALL BE TAKEN THAT THE RATE OF APPLICATION OF WATER DOES NOT CAUSE EROSION OR SLUFFING OF SOILS.

3.4.3. ALL DEPRESSIONS, VOIDS, EROSION SCARS AND SETTLED TRENCHES GENERATED BY THE DEEP WATERING SHALL BE FILLED WITH CONDITIONED TOPSOIL AND BROUGHT TO FINISH GRADE.

3.5. EXCAVATION FOR TREES AND SHRUBS

3.5.1. CONTAINER GROWN STOCK IN CANS SHALL BE CUT ON TWO SIDES WITH AN APPROVED CAN CUTTER. STOCK GROWN IN BOXES SHALL HAVE BOTTOMS REMOVED. ALL USED CONTAINERS SHALL BE REMOVED TO THE STORAGE AREAS OR FROM THE SITE. EACH TREE AND SHRUB SHALL BE PLACED IN THE CENTER OF THE HOLE AND SHALL BE SET PLUMB, REMOVE SIDES OF BOXES WHERE REQUIRED, AND HELD RIGIDLY IN POSITION UNTIL THE PLANTING BACKFILL HAS BEEN TAMPED FROM AROUND EACH ROOT BALL.

3.5.1.1. FOR CONTAINER-GROWN STOCK, EXCAVATE AS SPECIFIED FOR SIZE OF CONTAINER WIDTH AND DEPTH.

3.5.1.2. DISPOSE OF EXCESS SUBSOIL REMOVED FROM PLANTING EXCAVATIONS.

3.5.1.3. FILL EXCAVATIONS FOR TREES AND SHRUBS WITH WATER AND ALLOW WATER TO PERCOLATE OUT PRIOR TO PLANTING.

3.6. PLANTING TREES AND SHRUBS

3.6.1. SET CONTAINER GROWN STOCK AS SPECIFIED, CUT CANS ON 2 SIDES WITH AN APPROVED CAN CUTTER; REMOVE BOTTOMS OF WOODEN BOXES AFTER PARTIAL BACKFILLING SO AS NOT TO DAMAGE ROOTBALLS. ALL USED CONTAINERS SHALL BE REMOVED TO THE STORAGE AREAS OR FROM THE SITE. EACH TREE AND SHRUB SHALL BE PLACED IN THE CENTER OF THE HOLE AND SHALL BE SET PLUMB AND HELD RIGIDLY IN POSITION UNTIL THE PLANTING BACKFILL HAS BEEN TAMPED FROM AROUND EACH ROOT BALL

3.6.2. ALL PLANTS SHALL BE SET AT SUCH A LEVEL THAT AFTER SETTLING, THEY BEAR THE SAME RELATIONSHIP TO THE SURROUNDING FINISH GRADE AS THEY BORE TO THE SOIL LINE GRADE IN THE CONTAINER.

3.6.3. PLANTING TABLETS SHALL BE PLACED IN EACH TREE-PLANTING HOLE AT THE FOLLOWING RATE

3.6.3.1. 1-21 GRAM TABLET PER 1-GALLON CONTAINER. 3.6.3.2. 3-21 GRAM TABLETS PER 5-GALLON CONTAINER 3.6.3.3. 4-21 GRAM TABLETS PER 15-GALLON CONTAINER. 3.6.3.4. 1-21 GRAM TABLET PER EACH 4 INCH OF BOX SIZE.

3.6.4. NO PLANT WILL BE ACCEPTED IF THE ROOTBALL IS BROKEN OR CRACKED, EITHER BEFORE, DURING OR AFTER THE PROCESS OF INSTALLATION.

3.6.5. WATER BASIN SHALL BE FORMED AROUND EACH TREE AND SHRUB PER DETAIL. ALL PLANTS SHALL BE THOROUGHLY WATERED INTO THE FULL DEPTH OF EACH PLANT HOLE IMMEDIATELY AFTER PLANTING.

3.7 SODDING LAWN AREAS

3.71 PREPERATION

- A. APPLY FERTILIZER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. APPLY AFTER SMOOTH RAKING OF TOPSOIL AND PRIOR TO INSTALLATION OF SOD.
- C. APPLY FERTILIZER NO MORE THAN 48 HOURS BEFORE LAYING SOD.
- D. MIX THOROUGHLY INTO UPPER 2 INCHES OF TOPSOIL. E. LIGHTLY WATER TO AID THE DISSIPATION OF FERTILIZER.

3.72 LAYING SOD

- A. MOISTEN PREPARE SURFACE IMMEDIATELY PRIOR TO LAYING SOD.
- B. LAY SOD IMMEDIATELY AFTER DELIVERY TO SITE TO PREVENT DETERIORATION.
- C. LAY SOD SMOOTH AND TIGHT WITH NO OPEN JOINTS VISIBLE, AND NO OVERLAPPING; STAGGER END JOINTS 12 INCHES MINIMUM. DO NOT STRETCH OR OVERLAP SOD PIECES
- D. WHERE SOD IS PLACED ADJACENT TO HARD SURFACES, SUCH AS CURBS, PAVEMENTS, ETC., PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW TOP OF HARD SURFACE.
- E. WATER SODDED AREAS IMMEDIATELY AFTER INSTALLATION. SATURATE
- SOD TO 4 INCHES OF SOIL. F. AFTER SOD AND SOIL HAVE DRIED, ROLL SODDED AREAS TO ENSURE GOOD BOND BETWEEN SOD AND SOIL AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES. ROLL SODDED AREAS WITH ROLLER

3.8 NOT USED

3.9. PLANTING GROUND COVER

NOT EXCEEDING 300 LBS.

3.9.1. SPACE GROUND COVER PLANTS AS INDICATED OR SCHEDULED.

3.9.2. DIG HOLES LARGE ENOUGH TO ALLOW FOR SPREADING OF ROOTS AND BACKFILL WITH PLANTING SOIL. WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SLIGHT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER CROWNS OF PLANTS WITH WET SOILS.

3.9.3. BARK MULCH. PROVIDE NOT LESS THAN FOLLOWING THICKNESS OF BARK MULCH IN PLANTING AREAS SPECIFIED.

3.9.4. PROVIDE 2 INCHES THICKNESS OF BARK MULCH.

3.10. POST FERTILIZATION

3.10.1. POST FERTILIZATION FOR ALL AREAS (18-6-8) SHALL OCCUR 45 DAYS AFTER PLANTING AT A RATE OF 8 LBS. PER 1.000 SQ. FT.

3.11. MAINTENANCE PERIOD

3.11.1. THE MAINTENANCE PERIOD BEGINS ON THE FIRST DAY AFTER ALL LANDSCAPE AND IRRIGATION WORK AND ALL OTHER INDICATED OR SPECIFIED WORK ON THIS PROJECT IS COMPLETE, CHECKED, ACCEPTED AND WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT IS GIVEN TO BEGIN THE MAINTENANCE PERIOD.

3.11.2. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL INVOLVED AREAS OF THE CONTRACT DURING THE PROGRESS OF THE WORK AND DURING THE MAINTENANCE PERIOD UNTIL THE FINAL ACCEPTANCE OF THE

3.11.3. REGULAR PLANTING MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT OR LAWN IS PLANTED. PLANTS AND LAWNS SHALL BE KEPT IN A HEALTHY, GROWING CONDITION AND IN A VISUALLY PLEASING APPEARANCE BY WATERING, PRUNING, MOWING, ROLLING, TRIMMING, EDGING, FERTILIZING, RE-STAKING, PEST AND DISEASE CONTROLLING, SPRAYING, WEEDING, CLEANING-UP AND ANY OTHER NECESSARY OPERATION.

3.11.4. THE MAINTENANCE PERIOD SHALL CONTINUE UNTIL FINAL ACCEPTANCE, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD:

3.11.4.1. 60 DAYS AFTER SUBSTANTIAL COMPLETION OF PLANTING.

3.11.5. THE CONTRACT COMPLETION DATE OF THE CONTRACT MAINTENANCE PERIOD WILL BE EXTENDED, WHEN IN THE OPINION OF THE LANDSCAPE ARCHITECT, IMPROPER MAINTENANCE AND/OR POSSIBLE POOR OR UNHEALTHY CONDITION OF PLANTED MATERIAL OR UN-ESTABLISHED NON-COVERING LAWNS ARE EVIDENT AT THE TERMINATION OF THE SCHEDULED MAINTENANCE PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL MAINTENANCE OF THE WORK AT NO CHANGE IN CONTRACT PRICE UNTIL ALL OF THE WORK IS COMPLETED AND ACCEPTABLE.

3.11.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION OF THE AREAS. DAMAGED AREAS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

3.11.7. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING WATER BASINS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

3.12. CLEANUP AND PROTECTION

3.12.1. DURING LANDSCAPE WORK, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.

3.12.2. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS. OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.

3.13. SITE OBSERVATION VISITS:

OF THE WORK:

MAINTENANCE PERIOD.

3.17.1. SITE OBSERVATION VISITS HEREIN SPECIFIED SHALL BE MADE BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REQUEST SITE OBSERVATION (48 HOURS MIN.) IN ADVANCE OF THE TIME OBSERVATION IS REQUIRED.

3.13.2. SITE OBSERVATION WILL BE REQUIRED FOR THE FOLLOWING PARTS

3.13.2.1. WHEN PLANTING, AND ALL OTHER INDICATED OR SPECIFIED WORK, EXCEPT THE MAINTENANCE PERIOD. HAS BEEN COMPLETED. ACCEPTANCE AND WRITTEN APPROVAL SHALL ESTABLISH BEGINNING OF THE

3.13.2.2. FINAL SITE OBSERVATION VISITS AT THE COMPLETION OF THE MAINTENANCE PERIOD. THIS SITE OBSERVATION VISIT SHALL ESTABLISH THE BEGINNING DATE FOR THE WARRANTY PERIOD OF PLANT MATERIAL

3.13.2.3. UPON COMPLETION OF THE WARRANTY PERIOD.

3.13.3. ACCEPTANCE: UPON COMPLETION OF THE FINAL SITE OBSERVATION VISIT AND THE WORK OF THIS SECTION, THE CONTRACTOR WILL BE NOTIFIED IN WRITING (1) WHETHER THE WORK IS ACCEPTABLE; (2) OF ANY REQUIREMENTS NECESSARY FOR COMPLETION AND ACCEPTANCE.

3.13.4. THIS CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL BE

ON THE SITE AT THE TIME OF EACH SITE OBSERVATION VISIT BY THE

LANDSCAPE ARCHITECT.

END OF SECTION 02900

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 D FLS 🗹 HESTACS 🗌

APP. 03-120493 INC:

DATE: 06/30/2020

1300 Dove Street, Suite # 100 Newport Beach, CA. 92660

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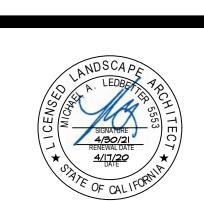
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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

PROJECT NAME

2 2

CONSULTANT



DSA RESUBMITTAL

PROJECT TEAM

PROJECT MANAGER Raymond Gamo

DESIGN TEAM

Barsin Bet Govargez

Michael Ledbetter

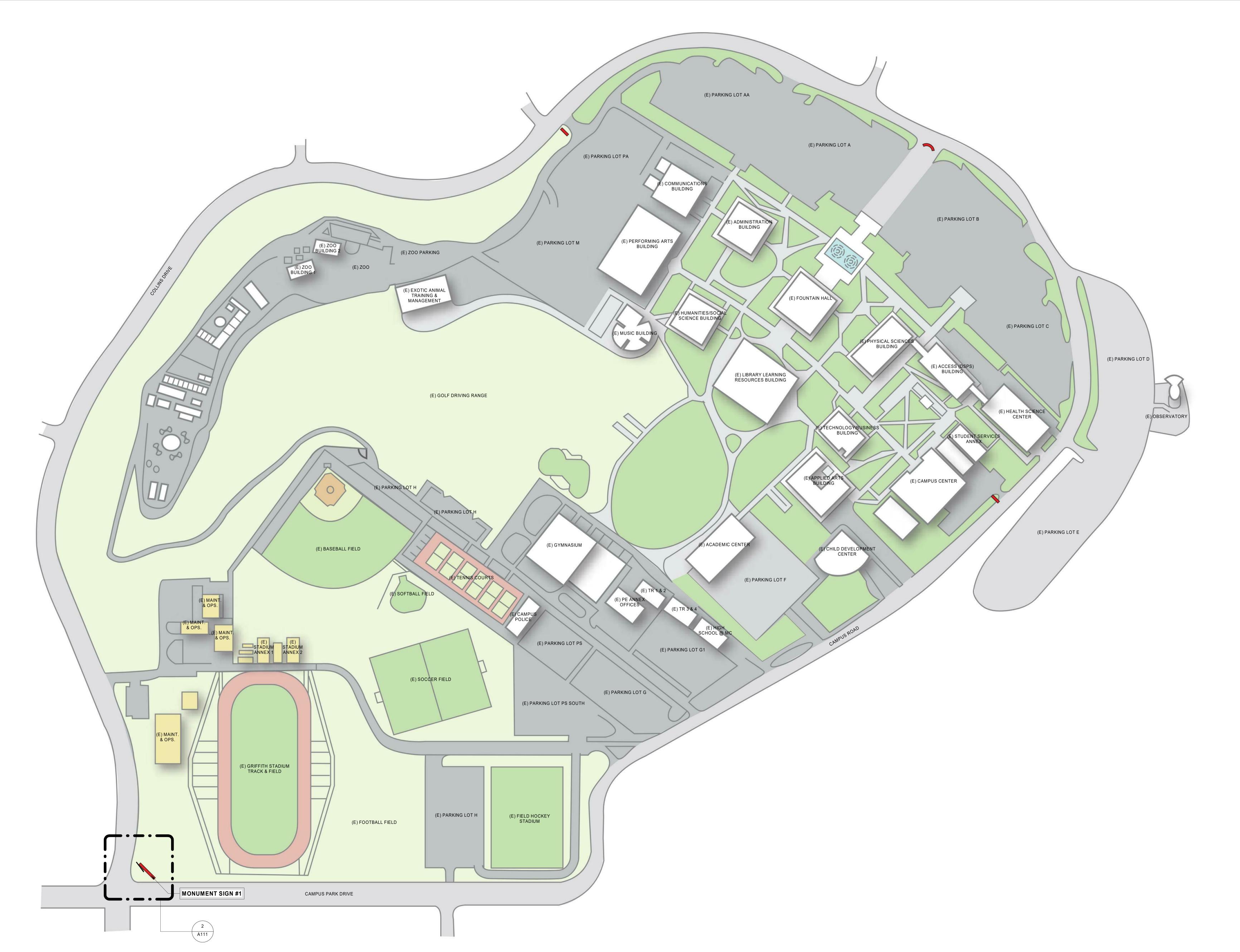
ISSUE DATE 04/17/2020

PROJECT NAME MOORPARK COLLEGE WAYFINDING

PROJECT NO.

PLANTING SPECIFICATIONS

613696000





IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 03-120493 INC: REVIEWED FOR SS V FLS V ACS DATE: 06/30/2020



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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

> COLLEGE 7075 CAMPUS F MOORPARK, CA MOORPARK

DSA A# 03-120493

DSA RESUBMITTAL
DSA A# 03-120493

PROJECT TEAM PRINCIPAL IN CHARGE
RITA CARTER

PROJECT MANAGER EMAN BERMANI DESIGN TEAM
JEFF HATFIELD

> MOORPARK COLLEGE MAIN **ENTRY SIGN**

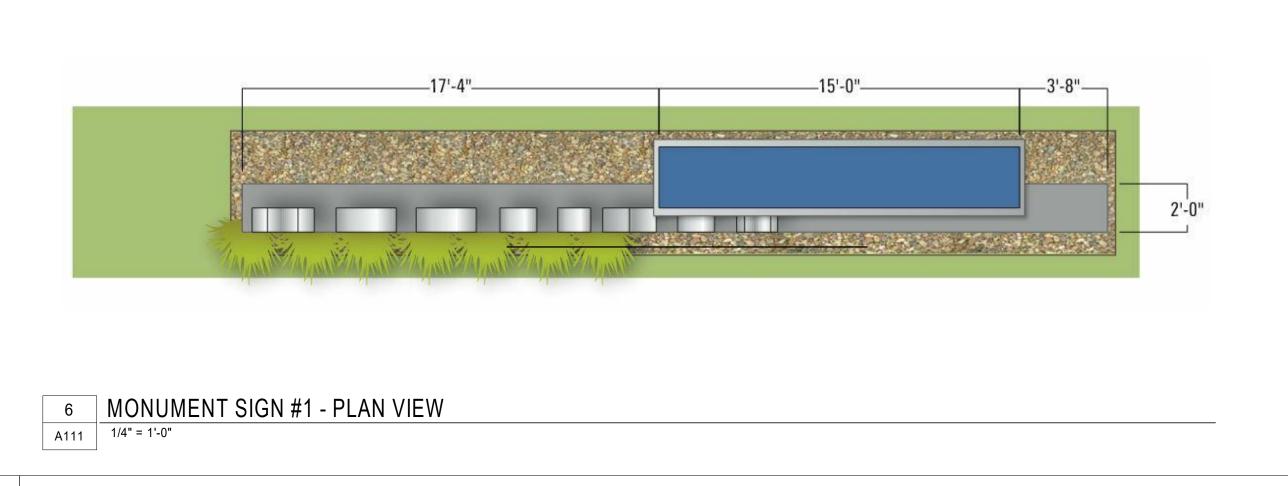
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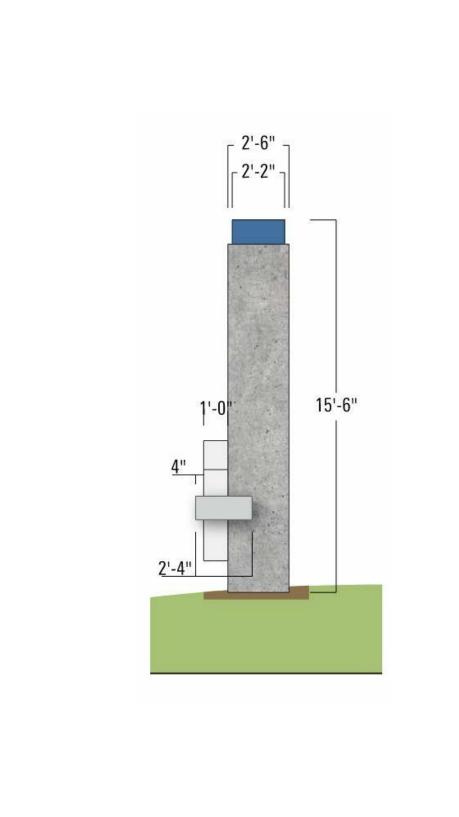
OVERALL SITE PLAN

A101

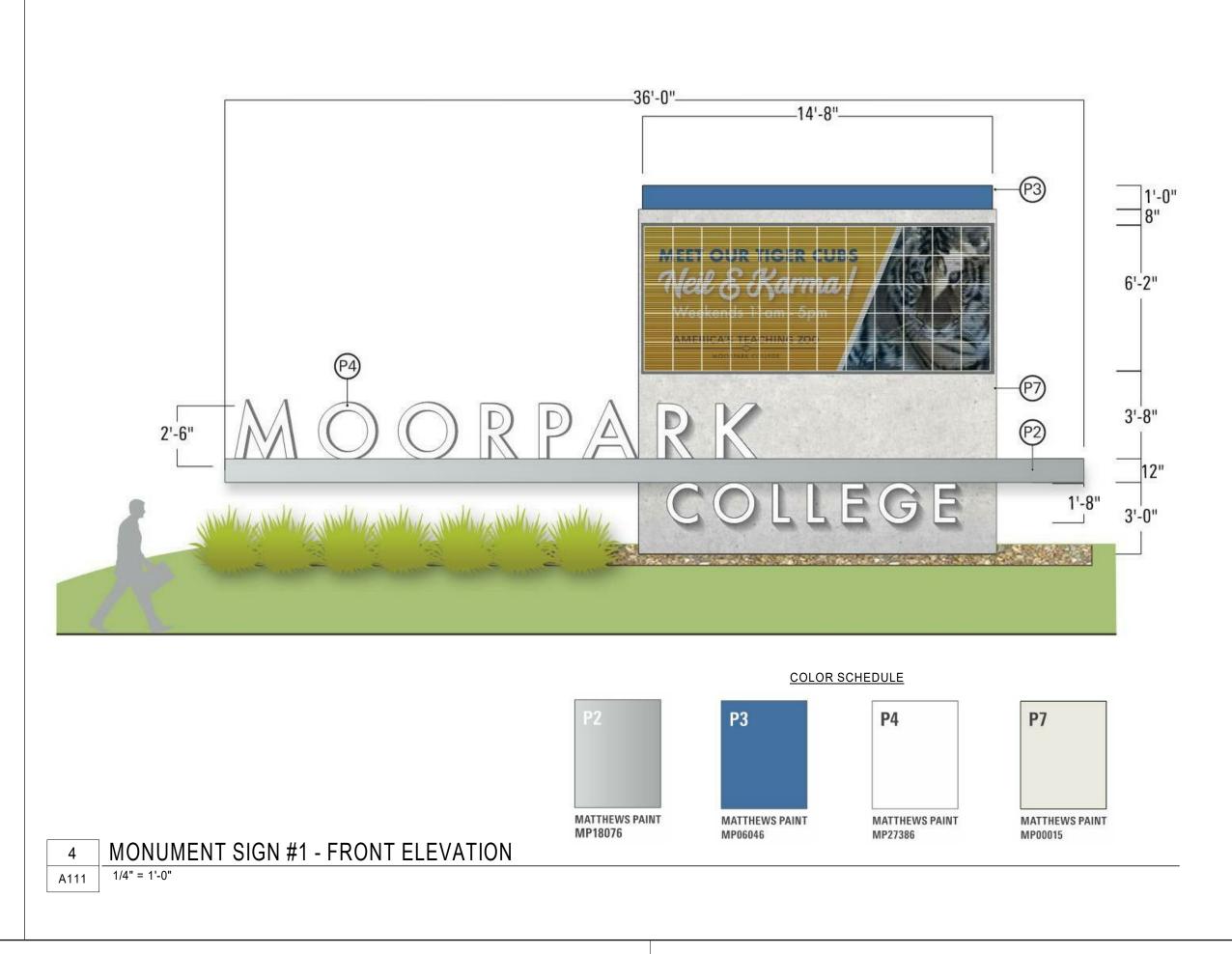


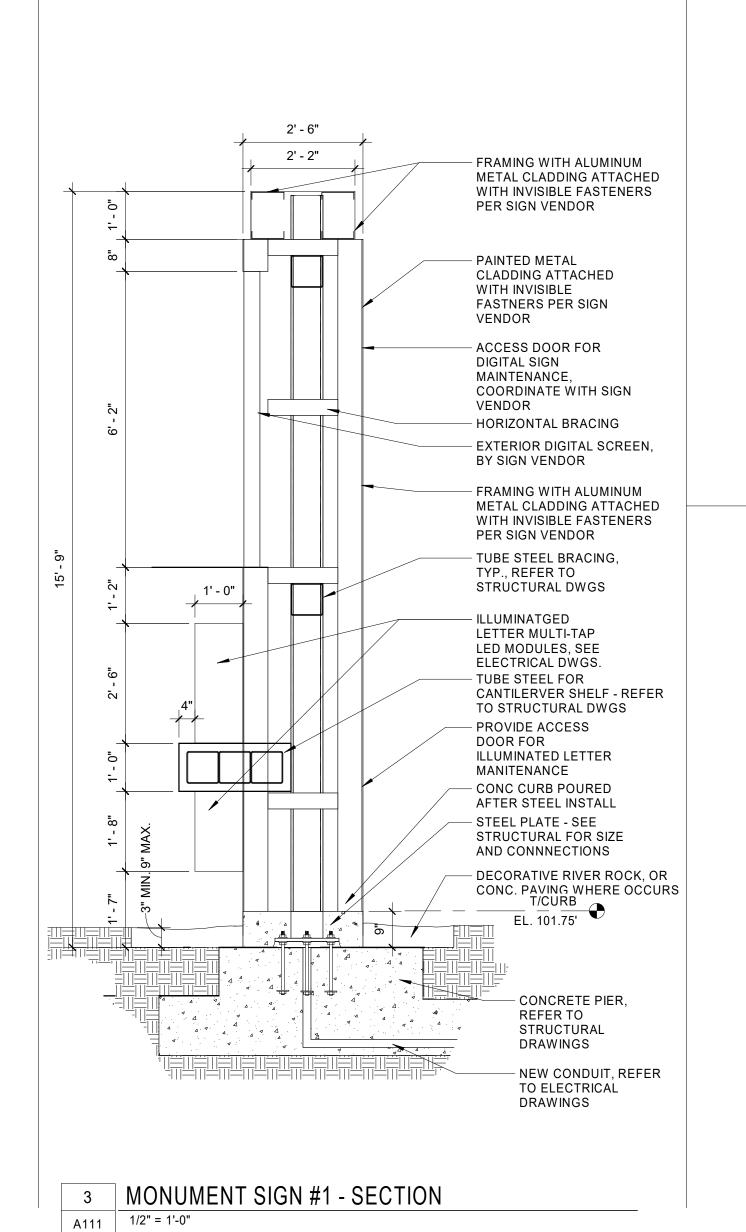


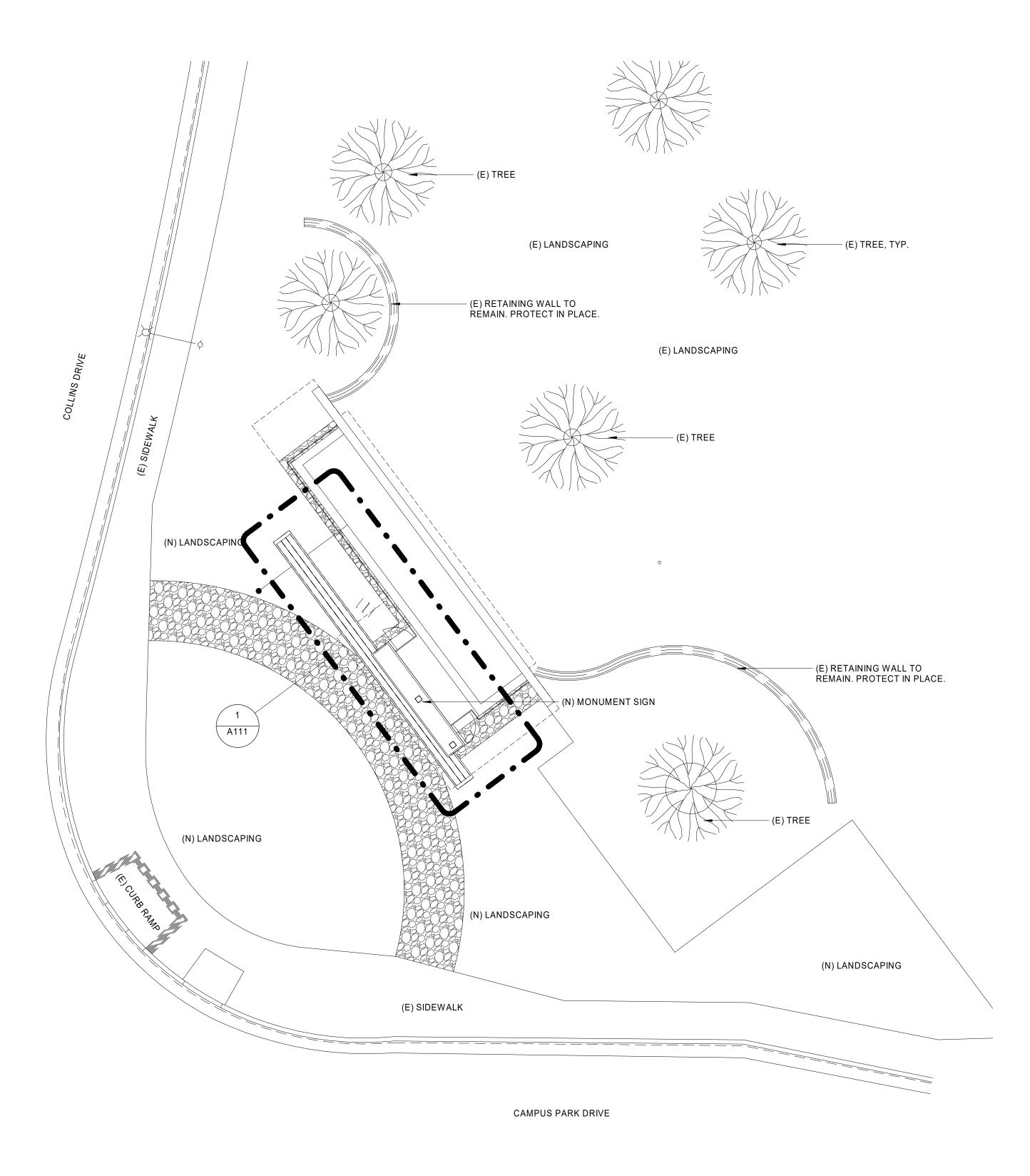




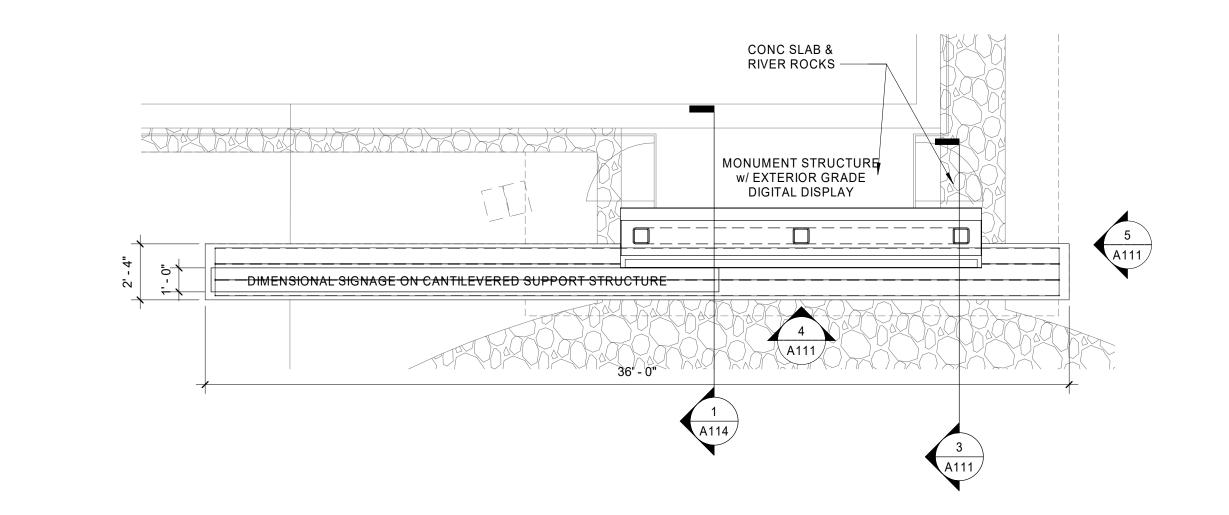
5 MONUMENT SIGN #1 - RIGHT SIDE ELEVATION



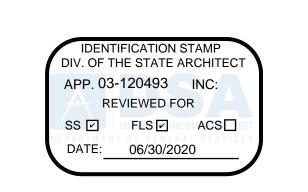




2 ENLARGED SITE PLAN @ MONUMENT SIGN #1



1 MONUMENT SIGN #1 - PLAN A111 1/4" = 1'-0"





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> COLLEGE SIGN 7075 CAMPUS I MOORPARK, CA

MOORP,

DSA A# 03-120493

DSA RESUBMITTAL

PROJECT TEAM PRINCIPAL IN CHARGE RITA CARTER PROJECT MANAGER EMAN BERMANI DESIGN TEAM
JEFF HATFIELD

MOORPARK **COLLEGE MAIN**

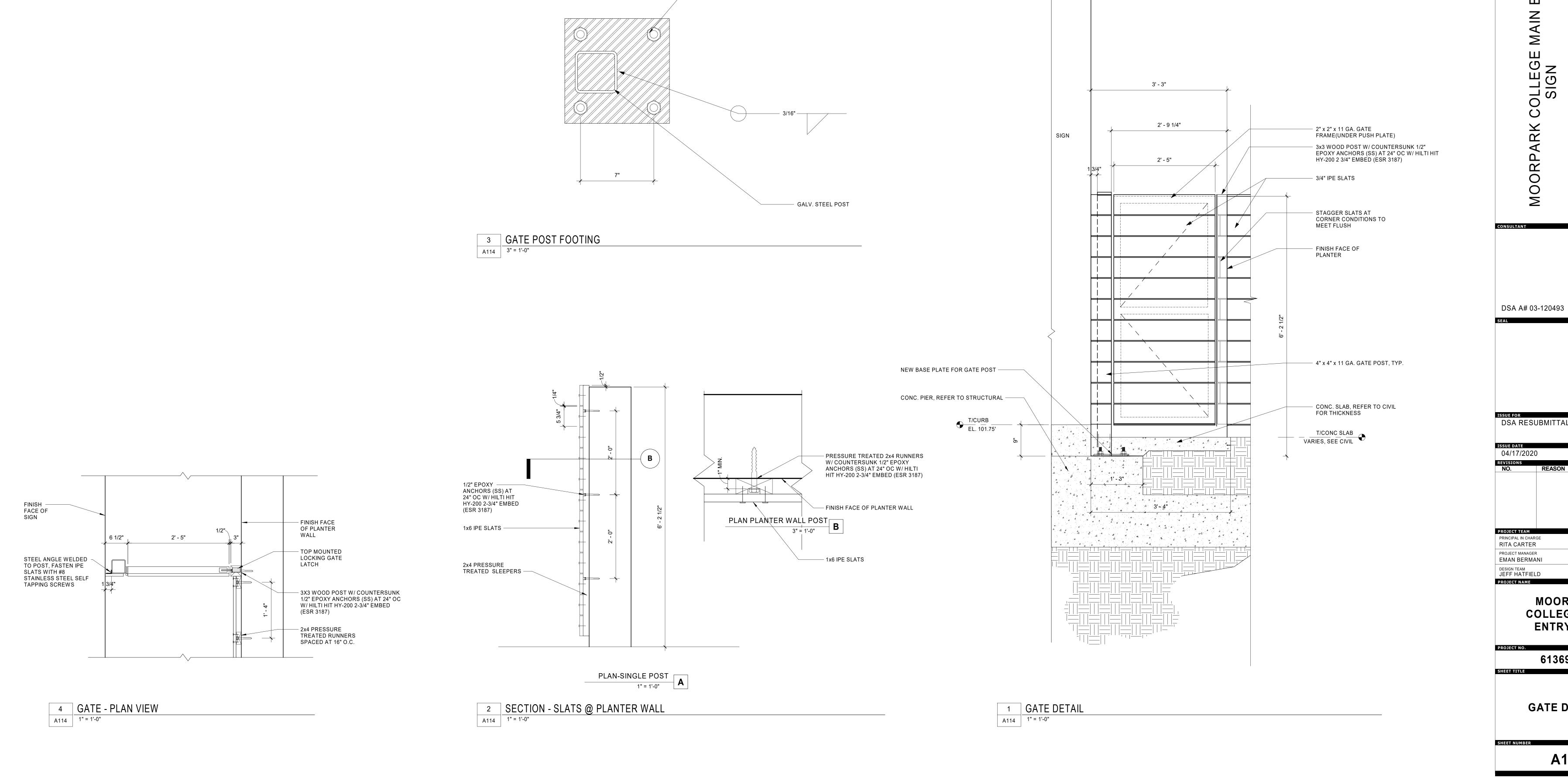
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ENTRY SIGN

MONUMENT SIGN #1

A111





— GALVANIZED BASEPLATE 1/2"x10"x10" A/ (4) 3/4" S.S. THREADED ROD IN HILTI HIT HY-200 EPOXY W/ 4" EMBEDMENT AT 7" O.C. (ESR-3187)

DIV. OF THE STATE ARCHITECT APP. 03-120493 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS DATE: 06/30/2020

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DSA RESUBMITTAL

PROJECT TEAM PRINCIPAL IN CHARGE

RITA CARTER PROJECT MANAGER EMAN BERMANI

DESIGN TEAM
JEFF HATFIELD

MOORPARK COLLEGE MAIN **ENTRY SIGN**

613696000

GATE DETAILS

A114

STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT. SUBMIT SHOP DRAWINGS ON ALL STRUCTURAL MATERIALS FOR APPROVAL BEFORE FABRICATION. CONTRACTOR SHALL

REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMISSION. THE STRUCTURE INDICATED BY THE DRAWINGS AND SPECIFICATIONS IS STRUCTURALLY STABLE ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCES AND OPERATIONS OF CONSTRUCTION AND SHALL PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE

DURING CONSTRUCTION. ALL DETAILS. SECTIONS. AND NOTES INDICATED ON THE DRAWINGS SHALL APPLY AT ALL LOCATIONS WHERE CONDITIONS

ARE SIMILAR TO THOSE INDICATED BY THE DETAIL, SECTION, OR NOTE. CENTERLINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTIONS UNLESS NOTED

CENTERLINES OF FLOOR AND ROOF FRAMING MEMBERS SHALL COINCIDE WITH GRID LINES UNLESS NOTED OTHERWISE. EQUALLY SPACE FLOOR AND ROOF FRAMING MEMBERS BETWEEN GRID LINES UNLESS NOTED OTHERWISE. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS OR USE ANY DIMENSIONS TAKEN

STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO

FROM ELECTRONIC DATA FILES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND ALL OTHER RELEVANT TRADES. IN CASE OF CONFLICT BETWEEN STRUCTURAL WORK AND DRAWINGS RELATED TO OTHER TRADES THE CONTRACTOR SHALL MAKE IN THEIR BID ALLOWANCE FOR THE MORE SEVERE REQUIREMENTS. CONFLICTS BETWEEN THE STRUCTURAL WORK AND THE DRAWINGS OF OTHER TRADES SHALL NOT BE A REASON FOR ANY ADDITIONAL COST OR DELAY IN EXECUTION OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE

ABBREVIATIONS

PROCEEDING WITH THE WORK.

CMU CONCRETE MASONRY UNIT COL COLUMN GB GRADE BEAM QTY QUANTITY CONC CONCRETE GC GENERAL CONTRACTOR REINF REINFORCEMENT CONN CONNECTION GLB GLULAM BEAM REF REFERENCE CONT CONTINUOUS HD HEADED REQD REQUIRED COORD COORDINATE HORIZ; H HORIZONTAL SCHD SCHEDULE CTR CENTER INT INTERIOR SIM SIMILAR DBA DEFORMED BAR ANCHOR JBE JOIST BEARNING ELEVATION SOG SLAB ON GRADE DCJ DOWELED CONSTRUCTION JT JOINT SPEC SPECIFICATIONS JOINT K KIPS STD STANDARD DEFL DEFLECTION KLF; PLF KIPS/POUNDS PER LINEAR T/ TOP OF DEMO DEMOLISH OF DEMOLITION KSI; PSI KIPS/POUND PER SQUARE TYP TYPICAL	ACTUATED AP T FILLER
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DIA; Ø DIAMETER KSI; PSI KIPS/POUND PER SQUARE TYP TYPICAL	SION
DIM DIMENSION INCH UNO UNLESS NOTED OTH	HERWISE
DWG DRAWING KSF; PSF KIPS/POUNDS PER SQUARE VERT; V VERTICAL	
DWL DOWEL FOOT VIF VERFIY IN FIELD	
EA EACH LB POUND W/ WITH EF EACH FACE LG LONG WP WORK POINT	
EJ EXPANSION JOINT LLH LONG LEG HORIZONTAL WWF WELDED WIRE FABR	RIC.

DESIGN CRITERIA

DESIGN CODES

1.	BUILDING CODE
2.	DESIGN LOADS
3.	STEEL
4.	CONCRETE
5.	CONCRETE MASONRY
6	COLD FORMED STEEL

2019 CALIFORNIA BUILDING CODE ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 530-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AISI S100-16 NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL

NDS 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

DESIGN LOADS

STRUCTURAL MEMBERS

BUILDING RISK CATEGORY

WIND LOAD

WOOD

SIGN DEAD LOAD 3. SEISMIC LOAD

TOTAL DEAD LOAD 6,000 LBS MAX SITE CLASSIFICATION D (DEFAULT) 0.995 SEISMIC DESIGN CATEGORY SEISMIC FORCE RESISTING SYSTEM ANALYSIS PROCEDURE ASCE7 CHAPTER 13 SEISMIC BASE SHEAR 3 KIPS (ASD) WIND SPEED 110 MPH **EXPOSURE**

WIND BASE SHEAR 5.4 KIPS (ASD) COMPONENTS AND CLADDING PRESSURES IN ACCORDANCE WITH ASCE 7

SELECTIVE DEMOLITION

- THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS OF DEMOLITION AND THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION AND THROUGHOUT CONSTRUCTION UNTIL THE WORK IS COMPLETED. EXISTING CONDITIONS AND STRUCTURAL MEMBERS INDICATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR. NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN CONDITIONS
- INDICATED AND THOSE FOUND AT THE SITE PRIOR TO THE START OF DEMOLITION OF EXISTING STRUCTURAL MEMBERS. PRIOR TO THE START OF DEMOLITION WORK VERIFY THAT ANY ELECTRICAL SYSTEM, MECHANICAL SYSTEM, PLUMBING SYSTEM, OR UTILITY EMBEDDED IN THE EXISTING STRUCTURE IS NOT DAMAGED OR DISRUPTED BY THE DEMOLITION WORK UNLESS IT IS REQUIRED BY THE WORK AND ADEQUATE MEASURES ARE TAKEN TO PRESERVE THE SYSTEM OR UTILITY
- BEYOND THE AREA OF DEMOLITION. WHERE NEW OPENINGS ARE INDICATED TO BE CUT THROUGH EXISTING CONCRETE MEMBERS, THE CONTRACTOR SHALL CORE DRILL ALL CORNERS OF THE OPENING AND SAW CUT OPENING EDGES BETWEEN CORE DRILLED HOLES. DO NOT CUT BEYOND HOLES. CUT AND CHIP CORNER HOLES TO PRODUCE SQUARE OPENING CORNERS AS REQUIRED.

EXISTING CONDITIONS

EXISTING DRAWINGS WERE NOT AVAILABLE FOR THIS PROJECT, ALL EXISTING DIMENSIONS, CONNECTION DETAILS, MEMBER SIZES, FRAMING CONFIGURATION, ETC. HAVE BEEN ASSUMED. THE GENERAL CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION OR PREPARING SHOP DRAWINGS. NOTIFY THE ARCHITECT AND ENGINEER OF ANY AREA WHERE THE EXISTING CONDITIONS DO NOT MATCH THE CONDITIONS ASSUMED ON THESE

DEFERRED SUBMITTALS

ENGINEER.

THE FOLLOWING ITEMS SHALL BE DESIGNED BY A SPECIALTY ENGINEER FOR THE CONTRACTOR, DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO DSA AND THE ARCHITECT FOR REVIEW AND APPROVAL, SEALED AND SIGNED BY A CALIFORNIA STRUCTURAL

ENTRY SIGN FRAMING & CONNECTIONS

SOIL AND SUBSURFACE CONDITIONS

- SOIL BEARING CAPACITY SHALL BE VERIFIED BY PROJECT STATE GEOTECHNICAL ENGINEER. THE FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE FOLLOWING PRESUMPTIVE CODE VALUES:
- SPREAD FOOTING BEARING PRESSURE ON SOIL 1,500 PSF ACTIVE SOIL PRESSURE ON RETAINING WALL OF 60 PSF/FT ALL FILL MATERIALS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. THE TOP 12" BELOW FOOTINGS SHALL BE
- COMPACTED TO 98% OF STANDARD PROCTOR. FOOTING BEARING ELEVATIONS SHALL BE ADJUSTED AT TIME OF EXCAVATION TO ACHIEVE THE REQUIRED BEARING CAPACITY
- IF SO REQUIRED. BACKFILLING OF RETAINING WALLS SHALL BE PLACED SO THAT EQUAL LOADING SHALL BE MAINTAINED ON EACH SIDE OF WALL UNTIL THE LOWER GRADE IS REACHED.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS BOTH DURING CONSTRUCTION AND PERMANENTLY. MAINTAIN STABILITY OF EXCAVATIONS UNTIL PROPERLY BACKFILLED. KEEP EXCAVATIONS FREE OF LOOSE MATERIAL. DEWATER EXCAVATIONS AND REMOVE ANY WET MATERIAL PRIOR TO PLACING CONCRETE. HEAVY EQUIPMENT USED FOR PLACING OR COMPACTING BACKFILL SHALL NOT BE OPERATED WITHIN A DISTANCE EQUAL TO
- THE HEIGHT OF THE BACKFILL ABOVE THE TOP OF FOOTING, (1 HORIZONTAL TO 1 VERTICAL). HAND OPERATED COMPACTION EQUIPMENT SHALL BE USED FOR COMPACTION OPERATIONS IN THIS AREA. EXCAVATION BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION BRACING SHALL BE DESIGNED FOR

LATERAL LOADING RESULTING FROM AN EQUIVALENT FLUID PRESSURE OF 60 PCF AND A SURFACE SURCHARGE OF 250 PSF.

CAST IN PLACE STRUCTURAL CONCRETE

- SUBMIT MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED.
- SUBMIT DATA FOR ALL ADMIXTURES. CURING COMPOUNDS AND HARDENERS THAT ARE INTENDED FOR USE. TESTING LABORATORY SHALL SAMPLE AND TEST CONCRETE AS FOLLOWS: TAKE SAMPLES IN ACCORDANCE WITH ASTM C31. SAMPLE 4 CYLINDERS FOR EACH 100 CUBIC YARDS, 5000 SF OF SURFACE
- AREA OR FOR EACH PLACEMENT OF EACH TYPE OF CONCRETE PLACED IN ANY ONE DAY. TEST WHEN SAMPLES ARE TAKEN FOR AIR CONTENT AND SLUMP IN ACCORDANCE WITH ASTM C143. TEST CYLINDERS FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM C39.
- TEST 1 CYLINDER AT 7 DAYS TEST 2 CYLINDERS AT 28 DAYS HOLD ONE CYLINDER IN RESERVE AND BREAK AT 56 DAYS IF THE 28 DAY CYLINDERS DO NOT SATISFY ACI CRITERIA FOR THE
- SPECIFIED STRENGTH. TEST REPORTS SHALL BE SENT TO THE STRUCTURAL ENGINEER AND SHALL BE AVAILABLE AT THE JOBSITE CONCRETE SHALL HAVE THE MINIMUM 28 DAY COMPRESSIVE STRENGTH AND WEIGHTS: WATER/CEMENT RATIO LOCATION 28 DAY STRENGTH UNIT WEIGHT **FOUNDATIONS** 4.000 PSI 145 PCF 0.50 MAX
- COARSE AGGREGATE TO BE 1" MAXIMUM. CONCRETE WORK SHALL CONFORM TO ACI 318.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185. PROVIDE MATERIAL IN SHEETS. LAP ALL WELDED WIRE FABRIC ONE FULL SQUARE PLUS 2" AT ALL SHEET EDGES.
- REINFORCING BAR SUPPORT DEVICES SHALL CONFORM TO CRSI MANUAL OF STANDARD PRACTICE. CONCRETE CLEAR COVER ON EMBEDDED REINFORCING SHALL BE AS FOLLOWS: LOCATION
- MINIMUM CLEAR COVER FOOTINGS 3" BOTTOM AND SIDES, ALL 2" TOP CONCRETE EXPOSED TO EARTH OR WEATHER #5 AND SMALLER 1 1/2"
- ALL CONTINUOUS BARS SHALL HAVE A CLASS B TENSION LAP SPLICE AT ALL SPLICES UNO. PROVIDE CORNER BARS FOR ALL CONTINUOUS BARS AT ALL FOUNDATION AND WALL CORNERS AND INTERSECTIONS. LAP CORNER BARS 48 BAR DIAMETERS PROVIDE DOWELS TO FOOTINGS TO MATCH ALL WALL, PIER AND COLUMN VERTICAL REINFORCING UNO. EMBED DOWELS IN FOOTING WITH HOOK TO WITHIN 3" OF BOTTOM OF FOOTING. EXTEND DOWELS ABOVE FOOTING FOR 48 BAR DIAMETER LAP

#6 THROUGH #18

- SPLICE WITH VERTICAL REINFORCING UNO. CONSTRUCTION AND CONTRACTION JOINTS IN WALLS SHALL BE LOCATED AT 20'-0" OC MAXIMUM AND 10'-0" MAXIMUM FROM WALL CORNERS. ALIGN JOINTS IN WALLS WITH JOINTS IN SLABS AT LOCATIONS WHERE SLABS ARE CONNECTED TO WALLS. CONFORM TO ACI 306 FOR COLD WEATHER CONCRETE AND ACI 305 FOR HOT WEATHER CONCRETE WORK WHEN ANY
- COMBINATION OF TEMPERATURE, HUMIDITY OR WIND SPEED RESULTS IN CONDITIONS THAT WOULD IMPAIR THE QUALITY OF CONCRETE. CONCRETE IS TO BE REJECTED IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90 DEGREES F OR ABOVE. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNO. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EMBEDDED ITEMS IN CONCRETE WORK. COORDINATE WITH THE FOLLOWING: CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, PRECAST SHOP DRAWINGS, MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AND FIXTURE REQUIREMENTS.

STRUCTURAL STEEL

STRUCTURAL STEEL CONSTRUCTION DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SHAPES ASTM A992 ANGLE, CHANNELS AND PLATES ASTM A36 ASTM F1554 GRADE 36 ANCHOR RODS <= 3/4"Ø ANCHOR RODS >= 7/8"Ø ASTM F1554 GRADE 55 ASTM A53 RECTANGULAR HSS ASTM A500 GRADE C, 50 ksi HEADED STUDS ASTM A108, GRADE 1015-1020

ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER FOR THE LOCATION AND TYPE OF SPLICE. CAMBER BEAMS WHERE INDICATED. WHERE NO CAMBER IS INDICATED, BEAMS SHALL BE FABRICATED SO THAT AFTER

ERECTION, ANY NATURAL CAMBER IS UPWARD. ALL COPES. HOLES. OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES SHALL BE INDICATED ON THE SHOP DRAWINGS AT TIME OF SUBMITTAL FOR REVIEW.

FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL STEEL AND SHALL INDICATE COMPLETE CONNECTION

INFORMATION, BOTH SHOP AND FIELD. PROVIDE A SHOP COAT OF FABRICATOR'S STANDARD RUST INHIBITIVE PRIMER TO ALL STEEL UNO.

FILL SOLID WITH NON-SHRINK GROUT UNDER ALL BASE AND BEARING PLATES (5,000 PSI MIN AT 28 DAYS). CONNECTION NOTES:

CONNECTION MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES: ASTM A36 ANGLES ASTM A992

PLATES ASTM A36 ASTM A325 **BOLTS** NUTS ASTM A563 ASTM F436 **WASHERS** WELDING ELECTRODES

BOLTED CONNECTIONS SHALL CONFORM TO THE PROVISIONS OF THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."

WELDED CONNECTIONS SHALL BE MADE WITH CONTINUOUS FILLET WELDS UNO. MINIMUM WELD SIZE SHALL BE 1/4" OR AS REQUIRED BY AISC SPECIFICATION, WHICHEVER IS LARGER. MINIMUM WELD LENGTH SHALL BE 2". ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS, APPROVED BY DSA.

LIGHT GAGE METAL FRAMING

- LIGHT GAGE METAL FRAMING INDICATED ON THE DRAWINGS INDICATES TYPICAL CONDITIONS AND MINIMUM REQUIREMENTS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE LAYOUT OF ALL LIGHT GAGE METAL FRAMING INCLUDING ARRANGEMENT, DIMENSIONS, MATERIALS,
 - STRESS VALUES, CONNECTORS, ANCHORAGE, AND RELATION TO ADJACENT WORK. LIGHT GAGE METAL FRAMING DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AISI NORTH AMERICAN
 - SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- MINIMUM GAGE OF MEMBERS PROVIDING LATERAL SUPPORT FOR MASONRY VENEER SHALL BE 18 GAGE (43 MILS). LIMIT LATERAL DEFLECTION OF STUDS PROVIDING LATERAL SUPPORT FOR MASONRY VENEER TO H/600.
- MINIMUM YIELD STRENGTH (Fy) FOR LIGHT GAGE METAL FRAMING MEMBERS SHALL BE 33,000 PSI FOR 18 GAGE (43 MILS) AND THINNER. MINIMUM YIELD STRENGTH (Fy) FOR MEMBERS SHALL BE 50,000 PSI FOR 16 GAGE (54 MILS) AND
- ALL LIGHT GAGE METAL STUDS, TRUSSES, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING CONFORMING TO ASTM A653 AND C955.
- A MINIMUM OF 10" LENGTH OF UN-PUNCHED STEEL IS REQUIRED AT ENDS OF STUDS AND AT ALL BEARING POINTS
- THE STUD FLANGES IS PERMITTED.
- LOAD BEARING STUDS SHALL HAVE FULL BEARING AGAINST THE INSIDE TRACK WEB TOP AND BOTTOM. STUD ENDS SHALL BE CUT SQUARE.
- (2) 1 1/2" 18 GA (43 MILS) FLAT STRAP (ONE EACH SIDE OF WALL). FASTEN BRIDGING TO EACH STUD FLANGE WITH (1) #10 SCREW. PROVIDE TRACK BLOCKING BETWEEN STUDS IN LINE WITH BRIDGING SPACED AT 10'-0" MAXIMUM ALONG LENGTH OF ALL BRIDGING LINES AND EACH SIDE OF WALL OPENINGS.
- MINIMUM TRACK FASTENING AT FOUNDATION SHALL BE 0.177"Ø POWDER ACTUATED FASTENERS (PAF) SPACED AT 8"
- OC. WITH 1 1/2" MINIMUM PENETRATION INTO CONCRETE. CUTTING OF LOAD BEARING METAL STUDS, TRACK, BRIDGING OR BRACING IS NOT PERMITTED WITHOUT SPECIFIC

POST-INSTALLED ANCHORS

- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
 - ANCHORAGE TO CONCRETE ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD PER ICC ESR-3187. MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE: HILTI KWIK HUS-EZ AND KWIK HUS EZ-1 SCREW ANCHORS PER ICC ESR-3027
 - HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917 REBAR DOWELING INTO CONCRETE
- a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE: HILTI HY-200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC150/300 VACUUM (VC105 OR VC 300) SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187 ALL ANCHOR BASE PLATES, PRESSURE TREATED WOOD SILLS, OR EXTERIOR APPLICATIONS SHALL BE GALVANIZED OR
- STAINLESS STEEL. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER
- METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
- OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION
- TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE
- OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON DRAWINGS. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. EXISTING REBAR AND STANDS MUST NOT BE CUT OR DAMAGED, UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, OR OTHER

DIV. OF THE STATE ARCHITE APP. 03-120493 INC: REVIEWED FOR SS I FLS I ACS DATE: 06/30/2020



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VENTURA COUNTY COLLEGE DISTRICT

DSA A# 03-120493



DSA RESUBMITTAL

PROJECT TEAM PRINCIPAL IN CHARGE PROJECT MANAGER

> **MOORPARK COLLEGE MAIN ENTRY SIGN**

613696000

Brvan Starr, SE

STRUCTURAL GENERAL **NOTES**

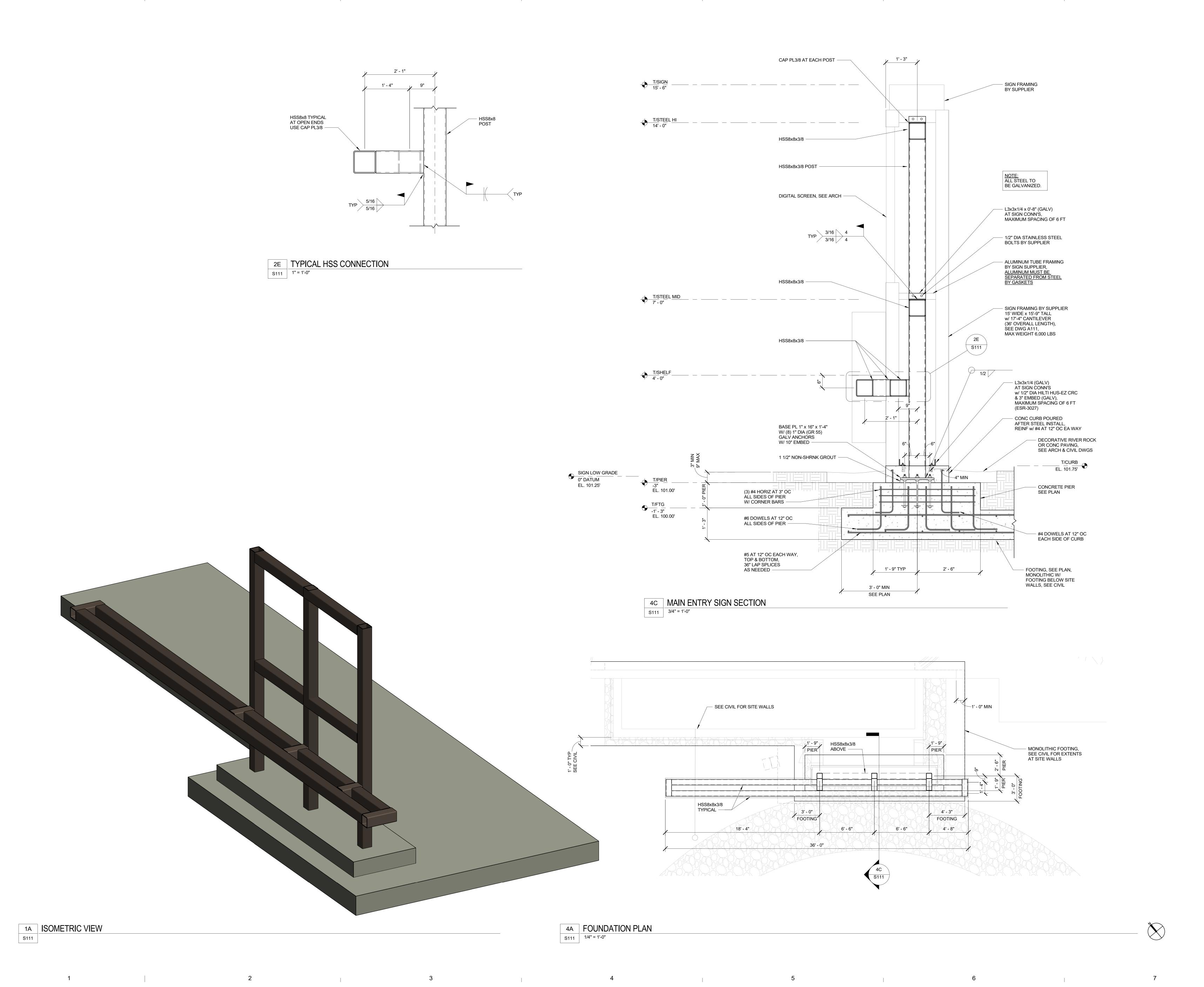
S001

AND CONCENTRATED LOADS (NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10 INCHES). NO CUTTING OF SPLICES IN LOAD BEARING STUDS ARE NOT PERMITTED.

LATERAL BRIDGING SHALL BE USED TO PROVIDE LATERAL STABILITY OF LOAD BEARING STUDS. BRIDGING SHALL BE

BRIDGING IS TO BE SPACED AT 4' - 0" OC VERTICALLY.

APPROVAL FROM THE ENGINEER OF RECORD. ATTACH ALL EXTERIOR SHEATHING AND INTERIOR SHEATHING AT BEARING WALLS TO METAL STUDS WITH #6 SCREWS SPACED AT 6" OC AT ALL PANEL EDGES AND PANEL INTERIOR. REFER TO ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS AND ALL WALL DIMENSIONS.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120493 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/30/2020



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VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

IOORPARK COLLEGE MAIN ENTRY SIGN 7075 CAMPUS ROAD, MOORPARK, CA 93021

DSA A# 03-120493



DSA RESUBMITTAL

NO	DEACON	DATE
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MOORPARK COLLEGE MAIN ENTRY SIGN

613696000

MAIN ENTRY SIGN STRUCTURE & FOUNDATION

S111

3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS. 4. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE. . ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES. FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS INSTALLATION

IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES. . DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. . PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR . FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR. . DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB, WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE L_2LA 1-3-5,7 LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.. ____ . SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP. . ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE, ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES. 9. ALL RECEPTACLES SHALL BE MOUNTED AT 18" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM OF BOX. ALL DISTRIBUTION BOARDS, SWITCHBOARDS AND TRANSFORMERS THAT ARE FLOOR MOUNTED SHALL BE MOUNTED ON 2" THICK HOUSEKEEPING PAD. TRANSFORMER SHALL BE ON VIBRATION ISOLATION PADS AND CONNECTED WITH FLEXIBLE CONDUIT. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY . PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4. . PROVIDE 90% COMPACTION OR SAND SLURRY OVER ALL UNDERGROUND CONDUITS, USE ONLY CLEAN FILL. MARKING - UNDERGROUND SYSTEM SHALL BE LEGIBLY MARKED "UNDERGROUND SYSTEM" AT THE SOURCE OR FIRST DISCONNECTING MEANS OF THE SYSTEM. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. (250.21)(C) PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION FOR THE LISTED RATED ASSEMBLY. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED

MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE) 150AT COLOR CODE FOR CONDUCTORS

FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE

SYMBOLS

(2)DATA OUTLETS, 2 GANG FLOOR BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE

4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS

" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE

DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON

CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)

E410

WP GFCI RECEPTACLE AT 18" AFF TO BOTTOM OF DEVICE

JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370

JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370

THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY

SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.

BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3Ø, 4W.

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,

CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND

- WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE

HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH

#12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE.

INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL &

MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL

FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL

1-1/4"C MINIMUM TO CABLE TRAY OR IDF.

TRANSFORMER

CONDUITS.)

(3/4" CONDUIT MINIMUM).

3/4"C-2#12 & 1#12 GND

3/4"C-3#12 & 1#12 GND

3/4"C-4#12 & 1#12 GND

3/4"C-5#12 & 1#12 GND

3/4"C-2#10 & 1#10 GND

3/4"C-3#10 & 1#10 GND

3/4"C-4#10 & 1#10 GND

3/4"C-5#10 & 1#10 GND

SEE KEY NOTE #1 AS INDICATED ON DRAWING

SWITCH WITH PILOT LIGHT @ 42"AFF

SWITCH MOUNTED @ +42" AFF

POWER IN - GRADE PLULLBOX

100A UTILITY METER (OR AS NOTED)

COM IN - GRADE PULLBOX

41 AND ABOVE

MOTOR RATED SWITCH

CIRCUIT SWITCH LEGS

—— WALL SWITCHES

CKT 7 WITH DEDICATED NEUTRAL.

120/208VAC,3Ø,4W: BLUE,BLACK,RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND. 277/480VAC,3Ø,4W: ORANGE,BROWN,YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF

DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U.O.N.

DERATING TABLE

NEC #310-8 ADJUSTMENT FACTORS (a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE PERCENT OF VALUES IN TABLES AS ADJUSTED NUMBER OF CURRENT-CARRYING FOR AMBIENT TEMPERATURE IF NECESSARY CONDUCTORS 4 THROUGH 6 7 THROUGH 9 10 THROUGH 2 21 THROUGH 30 31 THROUGH 40

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 318-11 SHALL APPLY.

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH

IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT

EXCEPTION NO. 5: FOR OTHER LOADING CONDITIONS, ADJUSTMENT FACTORS AND AMPACITIES SHALL BE PERMITTED TO BE CALCULATED

(FNC): SEE APPENDIX B, TABLE B-310-11 FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE WITH LOAD DIVERSITY.

(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.

LIST OF DRAWINGS SHEET DESCRIPTION GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST EXISTING ELECTRICAL SITE DEMOLITION PLAN ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULE ELECTRICAL SITE PLAN - NEW WORK ELECTRICAL PLAN ENLARGED AREA - NEW WORK ELECTRICAL DETAIL SHEET SCOPE OF WORK FOR NEW MARQUE SIGN, PROVIDE NEW POWER CONNECTION & EXTEND EXISTING OPTICAL FIBER TO NEW SIGN. DEMO OR EXTEND OLD SIGN ELECTRICAL SYSTEMS AS NOTED. APPLICABLE CODES AND STANDARDS 8. CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1 ACCESSIBILITY STANDARDS

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19 2019 CALIFORNIA BUILDING CODE (CBC) 9. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (CAL GREEN), PART II, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC) 10. 2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4

(2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS) (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY CODE 11. 2019 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6 CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS) 2016 CALIFORNIA FIRE CODE (CFC)

13. 2016 NFPA 72 NATIONAL FIRE ALARM CODE 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9

AMP FRAME/AMP FUSE

ARCH ARCHITECT

BKBD BACKBOARD

CKT

AMP SWITCH

AMP TRIP

ASTM AMERICAN SOCIETY OF

AWG AMERICAN WIRE GAGE

CONTINUATION

CONDUIT ONL'

CABLE TELEVISION

COLD WATER PIPE

DISCONNECT SWITCH

ELECTRICAL CONTRACTOR

EMERGENCY LIGHT/FEEDER

ELECTRICAL METAL TUBING

ETHYLENE PROPYLENE RUBBER

GROUND FAULT INTERRUPTER

INTERMEDIATE DISTRIBUTION

ENGINEER OF RECORD

SHALLOW FLOOR BOX

GENERAL CONTRACTOR

DISCONNECT

CIRCUIT

CEILING

COPPER

GROUND

HORSEPOWER

IDENTIFICATION

ISOLATED GROUND

KILO VOLT AMPS=1000VA

LONG CONTINUOUS LOAD

LIGHTING CONTACTOR

JUNCTION BOX

LOW VOLTAGE

AVAILABLE FAULT CURRENT

AMP INTERRUPTING CURRENT

ABOVE FINISHED FLOOR

TESTING MATERIAL(S)

CONDUIT OR CEILING

CIRCUIT BREAKER

(2018 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)

1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

ABBREVIATIONS

MDF

MIN.

MTD

TTC

UON

(X)

VOLTAGE DROP

WEATHERPROOF

WITH

PHASE

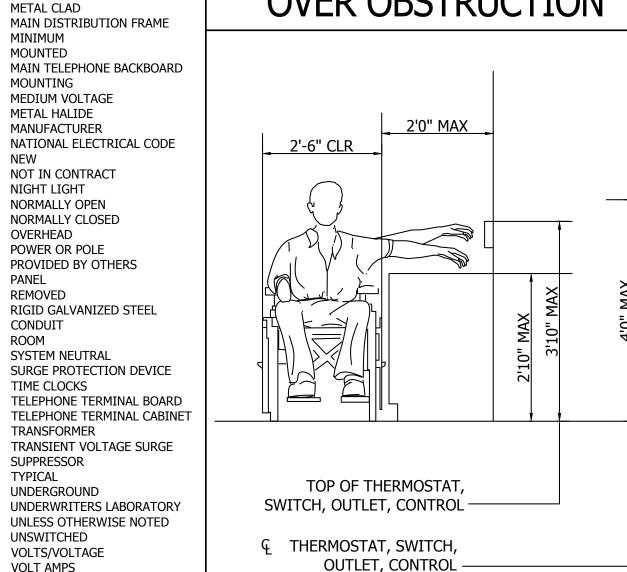
EXISTING

WATTS/WATTAGE OR WIRE

MOUNTING HEIGHT OVER OBSTRUCTION

12. 2013 TITLE 19 CALIFORNIA CODE OF REGULATIONS (CCR)

PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS



SITE/AREA MAP



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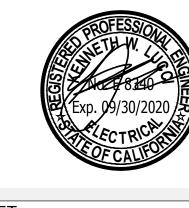
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3251 CORTE MALPASO, #511



PROGRESS SET DSA A# 03-120493

03/23/2020

PRINCIPAL IN CHARGE

MOORPARK

COLLEGE **WAYFINDING PROJECT**

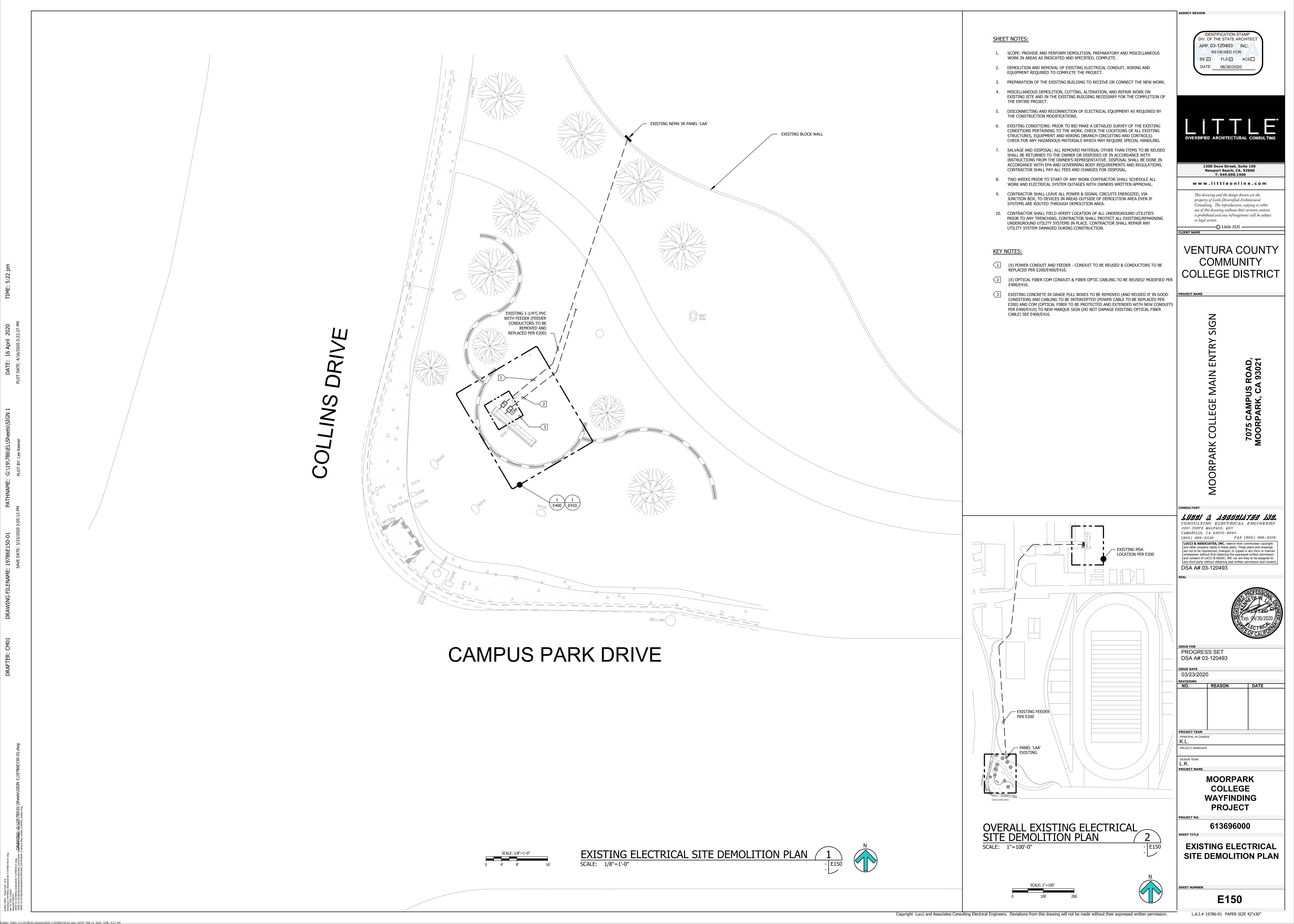
613696000 SHEET TITLE

> **GENERAL NOTES,** SYMBOLS, **ABBREVIATIONS & DRAWING LIST**

E100

L.A.I.# 19786-01 PAPER SIZE 42"x30"

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- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING.
- 4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.
- 5. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC SCHEDULE 80.
- 8. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
- 10. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL ELECTRICAL DRAWINGS OR NOT.

KEY NOTES:

- EXISTING FIBER OPTIC CONDUIT TO BE REUSED & EXTENDED TO NEW MARQUE SIGN WITH NEW 1" C - CONDUIT (IN THRU CONCRETE BASE PER DETAIL 2 THIS SHEET AND AS REQUIRED BY MANUFACTURER).
 - NEW 12" x 18" CONCRETE IN-GRADE PULLBOX (WITH CONCRETE COVER) FOR COM OPTICAL CABLE, EXTEND 1-1/4" CONDUIT & FIBER INTO SIGN AND TERMINATE FIBER AS REQUIRED PER SIGN MANUFACTURER.
- EXISTING POWER FEEDER (CONDUIT TO BE INTERCEPTED), & CONDUIT TO BE REUSED BUT CONDUCTORS REPLACED PER E200, NEW POWER FEEDER TO BE ROUTED INTO NEW 12" x 18" IN-GRADE CONCRETE PULLBOX WITH CONCRETE COVER AND NEW MARQUE SIGN CONDUCTORS EXTENDED TO SIGN THRU SIGN CONCRETE BASE PER MANUFACTURERS
- GROUND CONDUCTOR IN 1"C-(PVC).

MARQUE SIGN REQUIRES POWER (60A/3 PHASE AT 120/208 VAC) AND OPTICAL FIBER. EACH SYSTEM IS RUN IN DEDICATED CONDUIT. EXISTING POWER CONDUIT TO MARQUE AREA IS TO BE REUSED TO MAXIMUM EXTENT POSSIBLE. EXISTING POWER PULLBOX (THIS BOX WILL REQUIRE REMOVAL) & FEEDER/CONDUIT SHALL BE INTERCEPTED AND EXTENDED TO NEW 12" x 18" POWER PULLBOX (IN-GRADE WITH CONCRETE COVER) WITH NEW CONDUCTORS PER E200 TO MARQUE SIGN & NEW CONDUCTORS TO RECEPTACLE WP GFCI (SEE DETAIL 3 ON E600). FIBER OPTIC CABLE IN EXISTING CONDUIT SHALL BE PROTECTED FROM DAMAGE AND "PULLED BACK" TO NEW COM 12" x 18" PULLBOX (IN-GRADE WITH CONCRETE COVER) AND THE CONDUIT EXTENDS INTO THE MARQUEE SIGN

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SHEET NOTES:

- 1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL PLANS.
- 2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
- ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.

- 6. LABEL BOTH PULLBOXES COVERS WITH "COM" AND "POWER" AS PER SYSTEM TYPE.
- 7. MINIMUM CONDUIT BURIAL DEPTH IS 24".
- 8. 1" CONDUIT MINIMUM UNDERGROUND.
 - CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON
- 11. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

- NEW WP GFCI RECEPTACLE FED PER E200 VIA NEW E200 FEEDER VIA POWER CONCRETE
- EXISTING PULLBOXES & ASSOCIATED FEEDERS, FOR DEMOLITION SEE E150.

CONCRETE BASE (JUST LIKE POWER CONDUIT) AS REQUIRED BY MARQUE SIGN VENDOR.

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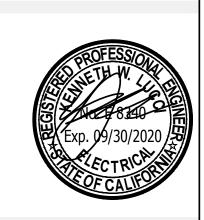
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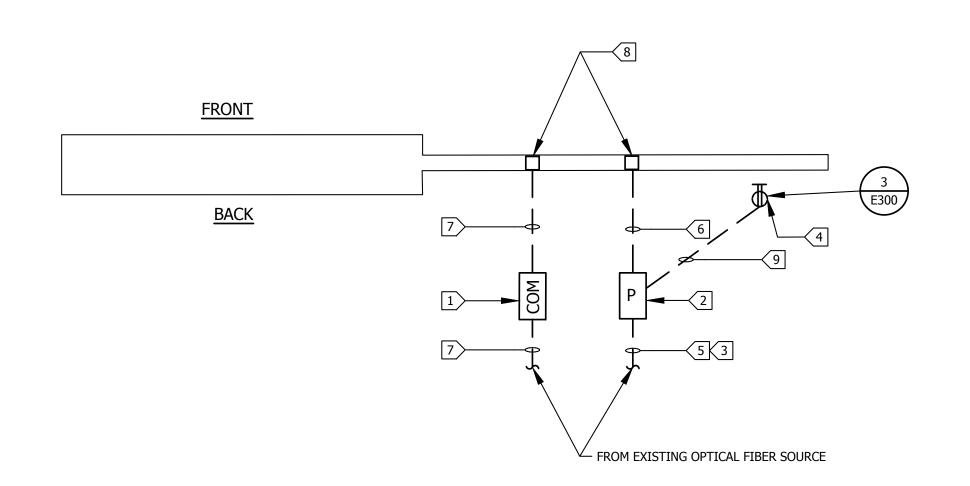
MOORPARK COLLEGE WAYFINDING **PROJECT**

613696000

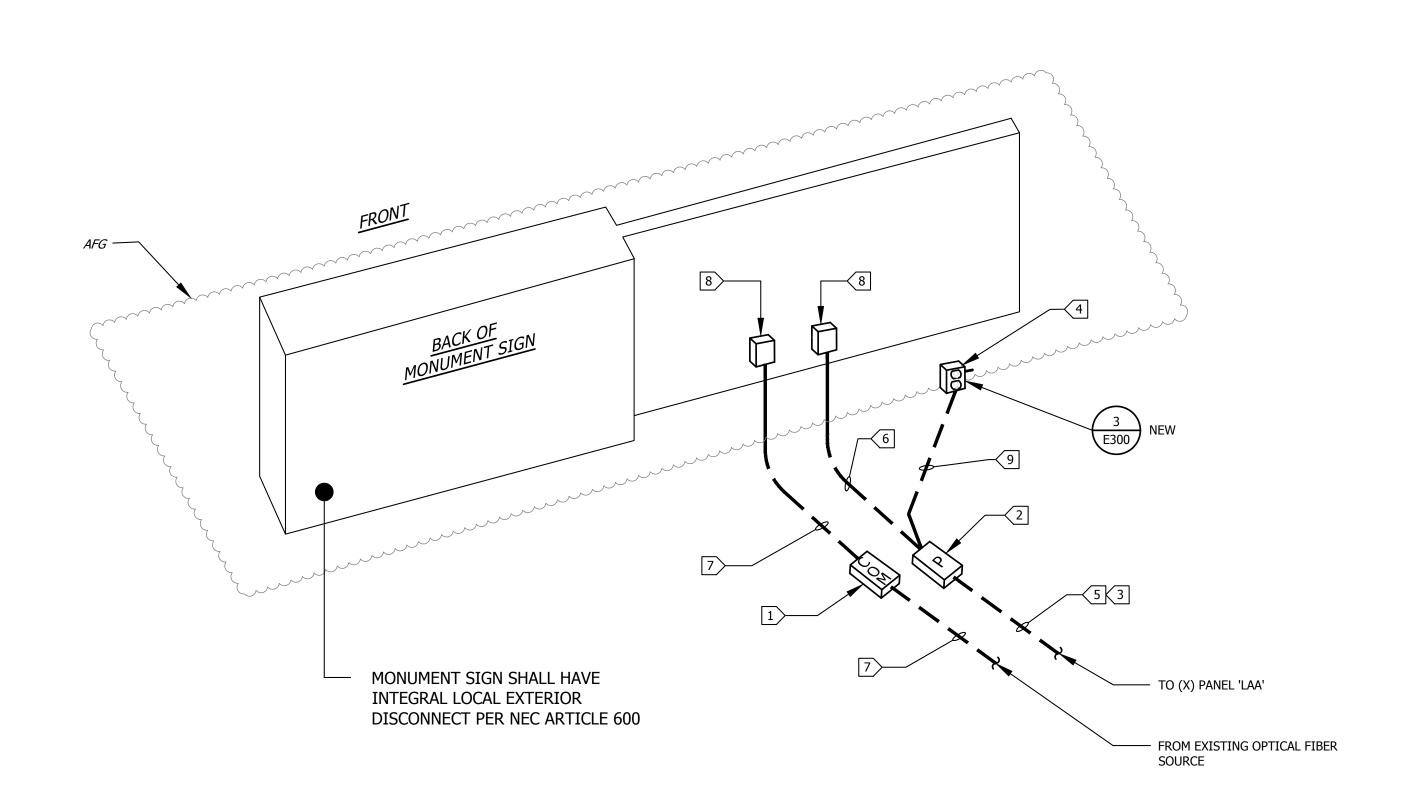
ELECTRICAL PLAN NEW WORK

E400

L.A.I.# 19786-01 PAPER SIZE 42"x30"

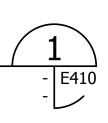


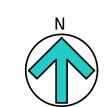
PLAN VIEW OF MARQUE SIGN B



BACK ELEVATION OF MARQUE SIGN A ISOMETRIC VIEW

ELECTRICAL PLAN - NEW MARQUE SIGN ALL NEW WORK





SHEET NOTES:

- 2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL
- 3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY
- CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE
- 5. 1" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 6. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,

KEY NOTES:

- NEW 12"x18" CONCRETE IN-GRADE COMMUNICATION PULLBOX (OPTICAL FIBER CABLING TO BE REUSED FOR NEW MARQUE SIGN).
- 2 NEW 12"x18" POWER PULLBOX (CONDUCTORS TO BE REPLACED SEE E200).
- 3 EXISTING CONDUIT, PULL NEW CONDUCTOR PER E200 AND 5.
- REMOVE EXISTING CONDUCTORS AND REPLACE WITH 4#6 & 1#10GND TO MARQUE SIGN & 2#10 & 1#10 FOR NEW WP GFCI RECEPTACLE REUSE IN EXISTING 1-1/4" C FOR NEW FEEDER.
- 6 WITH NEW FEEDER 1-1/4"C-4#6 AND 1#10 GROUND.
- TO NEW SIGN.
- 9 NEW 1"C-2#10 AND 1#10 GROUND.

- VERIFY STUB UP LOCATIONS ON ARCHITECTURAL PLANS.
- CONNECTIONS PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 - PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS FOR MARQUE SIGN

- 4 NEW RECEPTACLE GFCI.
- 7 EXISTING INTERCEPTED OPTICAL FIBER FOR MARQUE SIGN TO BE EXTENDED VIA NEW 1-1/4" C
- 8 NEW INTERIOR POINT OF CONNECTION PER SIGN MANUFACTURER.

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LUGGI & ASSUCIATES ING. CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520

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PROGRESS SET DSA A# 03-120493

03/23/2020

REASON

PRINCIPAL IN CHARGE

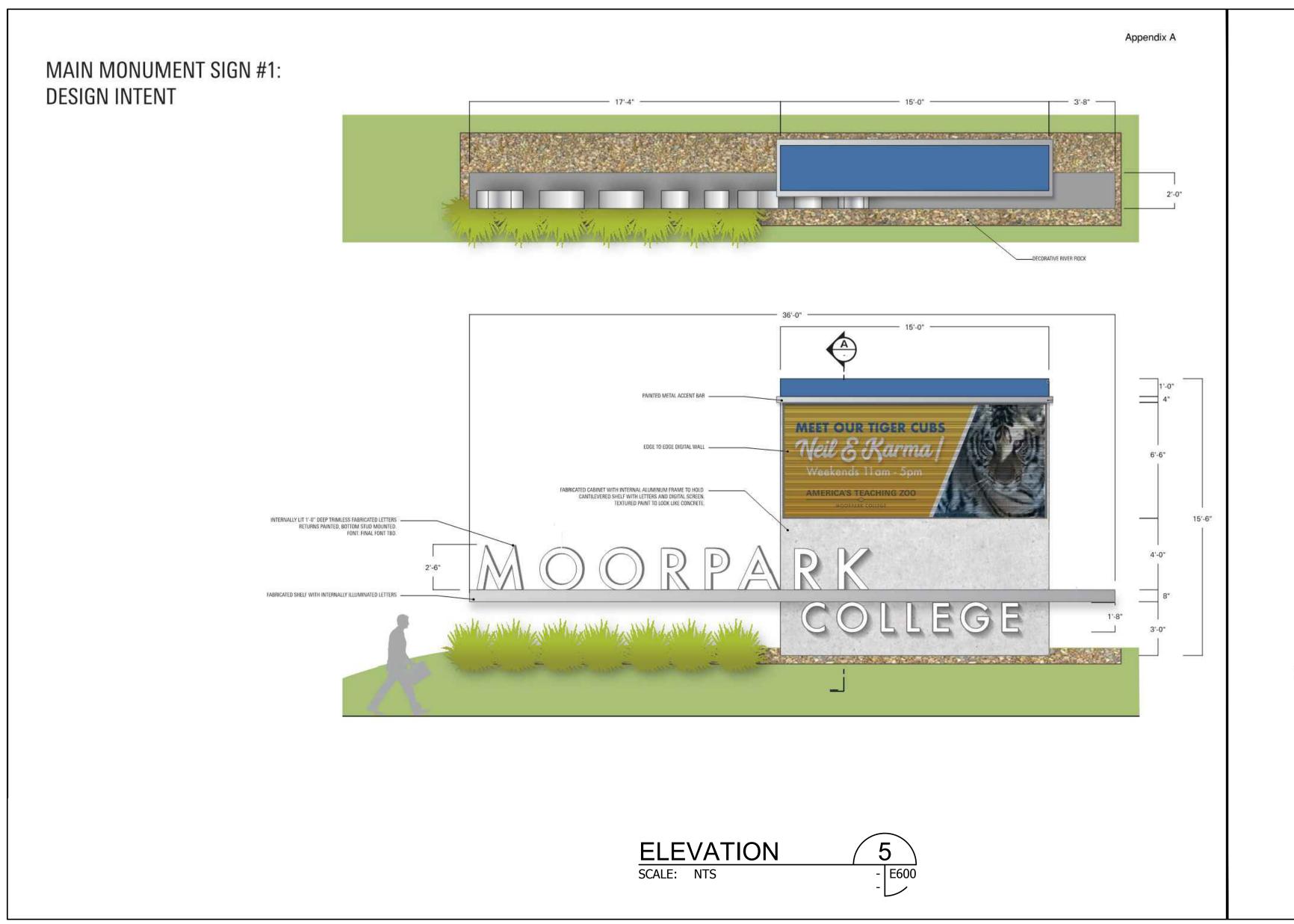
MOORPARK COLLEGE **WAYFINDING PROJECT**

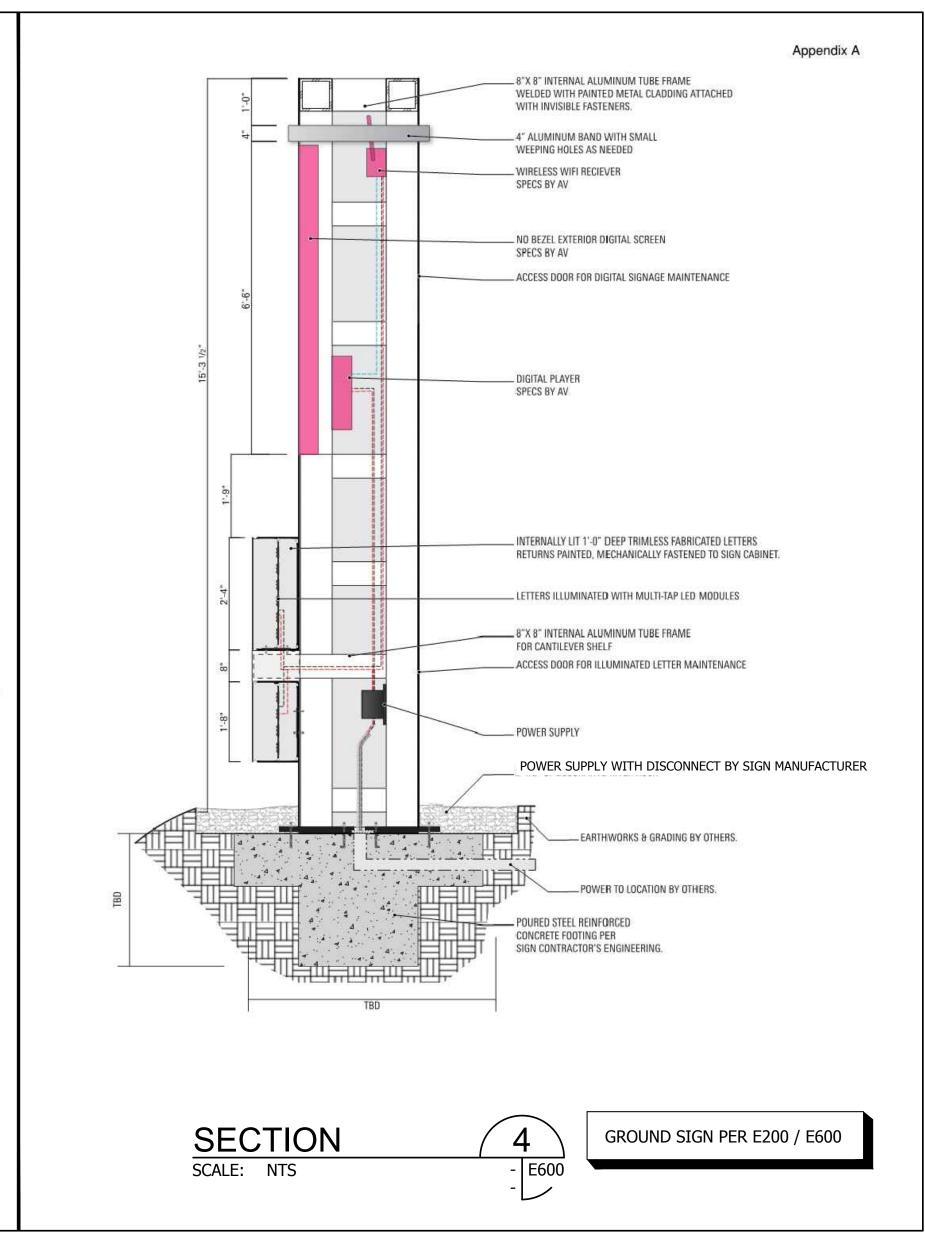
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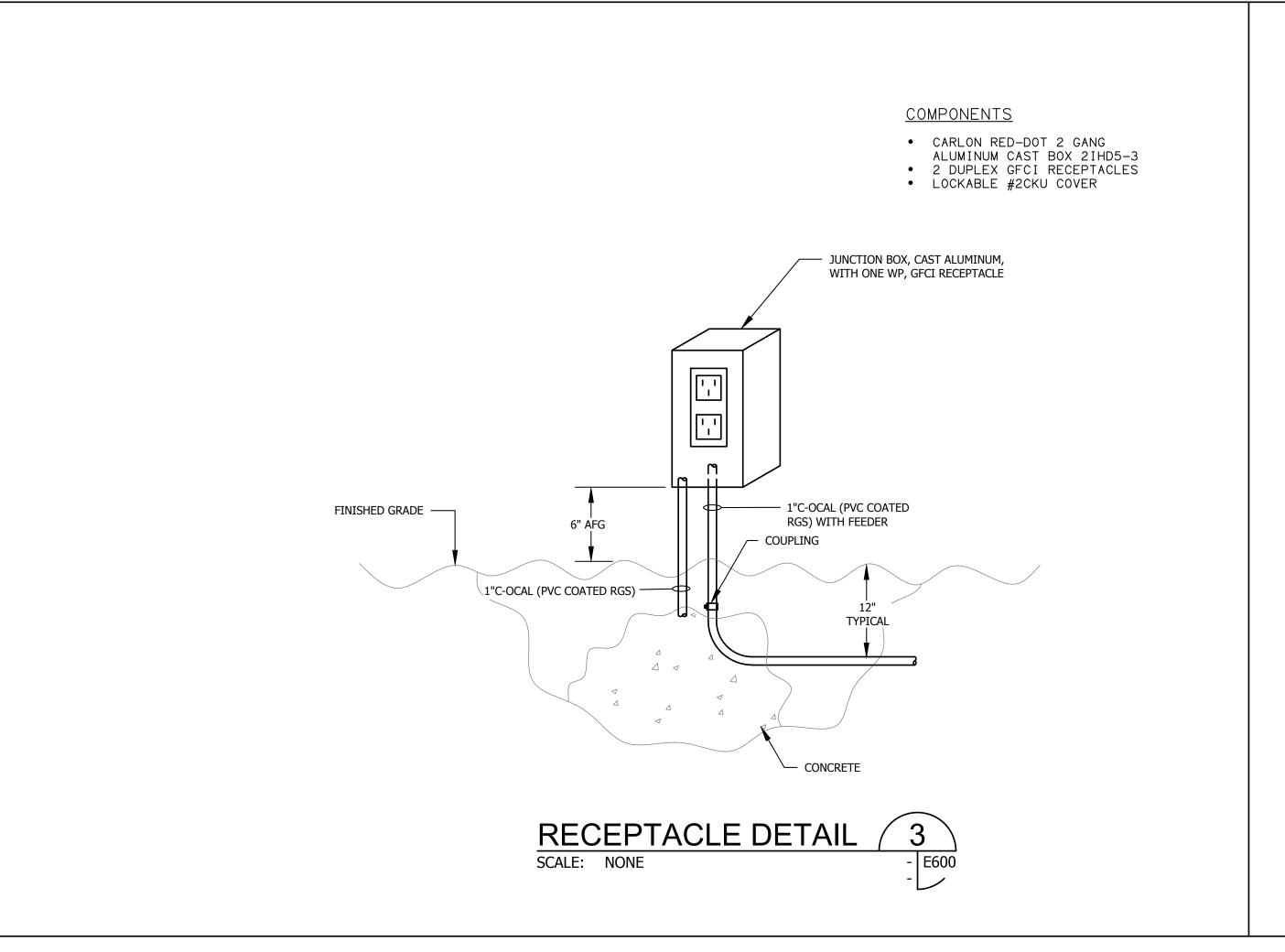
ELECTRICAL PLAN ENLARGED AREA NEW WORK

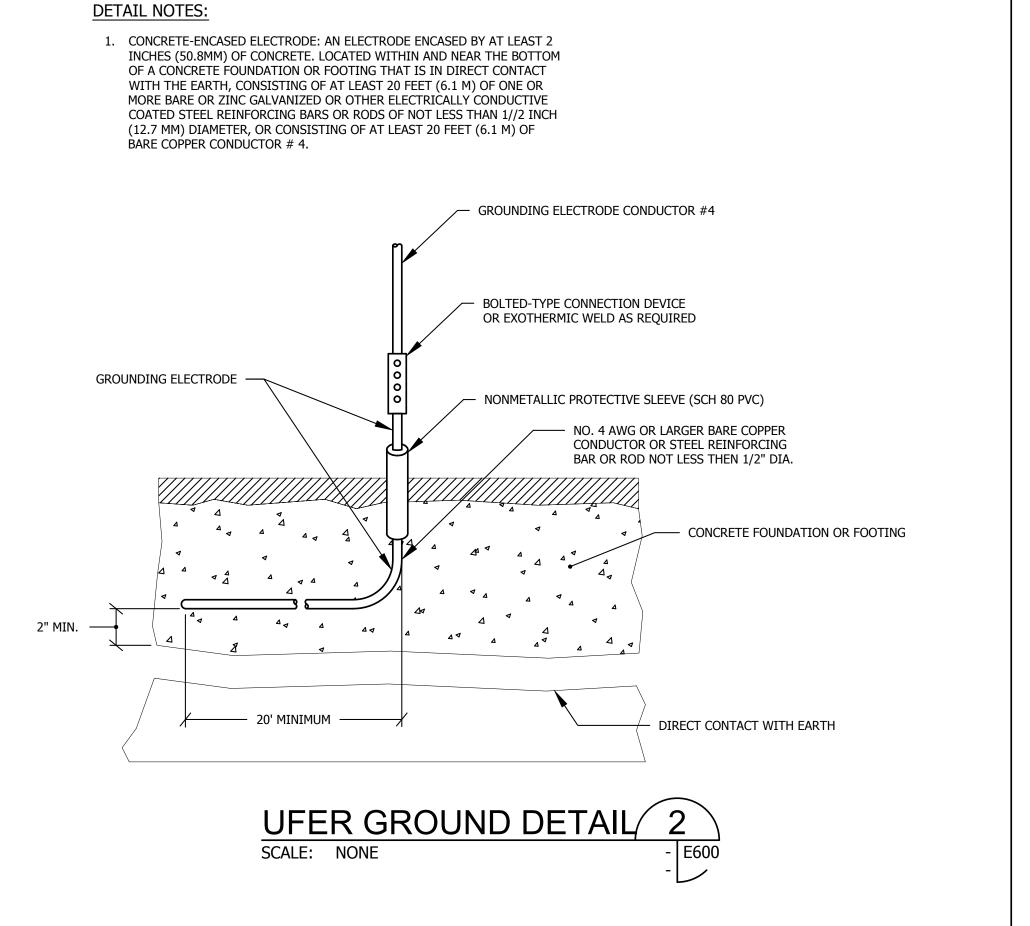
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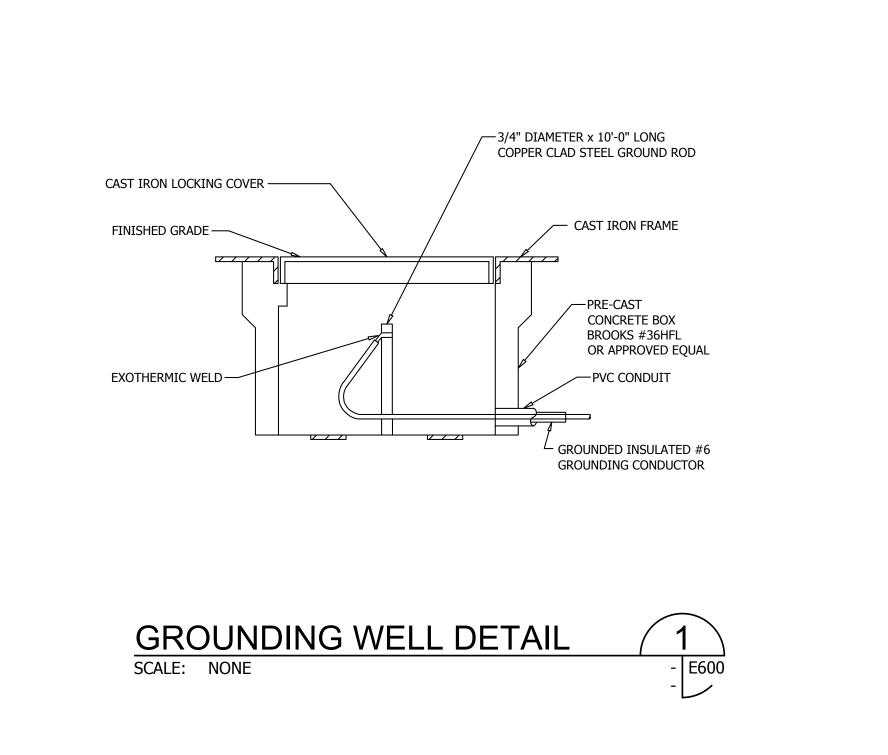
L.A.I.# 19786-01 PAPER SIZE 42"x30"











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DIV. OF THE STATE ARCHITEC APP. 03-120493 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS DATE: 06/30/2020

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

PROJECT NAME

LUBBI & ABBUBLATEB LYB.

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DSA A# 03-120493

PROGRESS SET



DSA A# 03-120493 03/23/2020 NO. REASON DATE

PROJECT TEAM PRINCIPAL IN CHARGE PROJECT MANAGER

MOORPARK COLLEGE WAYFINDING **PROJECT**

613696000

ELECTRICAL DETAILS

E600

L.A.I.# 19786-01 PAPER SIZE 42"x30"