

GENERAL SITE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, AND THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
 - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
 - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
 - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 6" OF RISE AT 8.33%
 - WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
 - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
 - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
 - OPEN PAVED PLAY AREAS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- DRAINAGE SHALL NOT BE ALLOWED onto ADJACENT PROPERTY.
- ALL FILL MATERIAL USED SHALL BE PLACED IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO START OF ANY WORK.
- CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT TO TURN OFF IRRIGATION A MINIMUM OF 2 DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT THROUGHOUT THE COURSE OF THE PROJECT FOR WATERING ALL NON-WATERING TIMES. CONTRACTOR SHALL NOTIFY THE DISTRICT AS SOON AS WORK IS COMPLETED TO THE POINT WHERE IRRIGATION SYSTEMS MAY BE TURNED BACK ON.
- ENSURE THAT ALL EXISTING STRIPING IS NOT VISIBLE AFTER APPLYING SEAL COAT AND PRIOR TO RESTRIPIING AND REPAINTING. OTHERWISE, ADDITIONAL SEAL COAT APPLICATION MAY BE REQUIRED.
- PRIOR TO ACCEPTANCE OF NEW PAVING AND APPLICATION OF SEAL COAT AND/OR STRIPING, THE CONTRACTOR SHALL COMPLETE A WATER TEST OF THE NEW PAVEMENT WITH THE ENGINEER OF RECORD PRESENT TO VERIFY THAT NO LOW SPOTS OR "BIRD BATHS" ARE PRESENT, PER THE PROJECT SPECIFICATIONS.
- LAYOUT ALL PAVEMENT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE ON PLANS.
- PAINT ALL CURBS AND WHEELSTOPS TO MATCH EXISTING WITHIN PROJECT LIMITS, UNLESS SHOWN OTHERWISE ON THE PLANS.
- ALL CONCRETE SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET OR LESS ON CENTER AND ONE HALF INCH PREMOULDED EXPANSION JOINTS AT 30 FEET OR LESS MINIMUM. MATCH EXISTING SCORE PATTERN DIMENSIONS ON ALL CONCRETE WALKS AND PAVEMENT.
- NO CONCRETE MAY BE POURED UNTIL ALL FORMS AND REINFORCEMENTS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- REPLACE ALL DAMAGED TURF AND IRRIGATION FACILITIES RESULTING FROM THE WORK REQUIRED.
- ADJUST ALL UTILITY LIDS TO FINISHED GRADE WITHIN CONSTRUCTION AREA PER DETAIL [E/X103] UNLESS NOTED OTHERWISE. REMOVE AND REPLACE ALL BROKEN OR DAMAGED LIDS AND BOXES. ALL LIDS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED.
- ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR TO MATCH EXISTING PAVEMENT GRADE AT ALL NEW PAVEMENT LOCATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- ASPHALT CONCRETE REMOVAL AND REPLACEMENT LIMITS SHOWN ARE APPROXIMATE AND ARE BASED ON PAVEMENT CONDITIONS OBSERVED DURING A PRE-DESIGN SITE REVIEW. ADJUST LOCATIONS AND LIMITS AS REQUIRED BY ACTUAL FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [D/X101]

COUNTY NOTES

- THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISION OF THE SPECIFICATIONS ENTITLED BY CITY OF MADERA, COUNTY OF MADERA AND THE STANDARD PLANS AND SPECIFICATIONS LATEST REVISION.
- THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS. AND SHALL DO ALL WORK NECESSARY TO CONSTRUCT ALL OF THE PROPOSED IMPROVEMENTS SHOWN OR SPECIFIED ON THE PLANS OR IN THE SPECIFICATIONS, WITH THE EXCEPTIONS OF EXISTING IMPROVEMENTS AND THOSE IMPROVEMENTS SPECIFICALLY SHOWN OR SPECIFIED AS "FUTURE" OR AS "BY OTHERS".
- RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS WERE DERIVED FROM ASSESSOR'S MAPS AND RECORD DRAWINGS. NO PROPERTY BOUNDARY SURVEYS WERE PERFORMED.
- UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.
- THE CONTRACTOR SHALL SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF MADERA FOR ALL WORK WITHIN THE PUBLIC RIGHT OF WAY.
- ALL CONSTRUCTION EQUIPMENT SHALL BE TUNED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR'S WORK CREWS SHALL SHUT OFF CONSTRUCTION EQUIPMENT WHEN NOT IN USE.
- CONTRACTOR SHALL FULLY COORDINATE INSTALLATION OF STREET IMPROVEMENTS WITH THE INSTALLATION OF THE TRAFFIC SIGNALS AND STREET LIGHTS.
- CONTRACTOR SHALL PERFORM ALL CLEARING, GRUBBING AND DEMOLITION REQUIRED FOR CONSTRUCTION OF THE IMPROVEMENTS INDICATED, WHETHER OR NOT SPECIFICALLY NOTED ON THE PLANS.
- TWO WORKING DAYS PRIOR TO COMMENCING UTILITY EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT, TOLL FREE, AT 1-800-227-2600.
- ANY EXISTING SECTION CORNER, QUARTER SECTION CORNER, PROPERTY CORNER, STREET CENTERLINE MONUMENT, OR ANY OFFICIAL BENCHMARK DAMAGED BY THE CONTRACTOR IN THE COURSE OF THE WORK COVERED BY THESE CONSTRUCTION PLANS, SHALL BE RESET TO THE SATISFACTION OF THE COUNTY PUBLIC WORKS DIRECTOR. A LICENSED LAND SURVEYOR OR CIVIL ENGINEER LICENSED TO PERFORM LAND SURVEYING SHALL CERTIFY THE PLACEMENT OR REPLACEMENT OF ALL MONUMENTS AND BENCHMARKS IN ACCORDANCE WITH ALL LAWS, RULES AND REGULATIONS GOVERNING SUCH PLACEMENTS OR REPLACEMENTS. PLACEMENT/REPLACEMENT AND CERTIFICATION SHALL BE COMPLETED BEFORE FINAL ACCEPTANCE OF THE PROJECT WORK BY THE COUNTY. BRONZE CAPS REQUIRED FOR THE INSTALLATION OF NEW OR REPLACEMENT MONUMENTS SHALL BE FURNISHED BY THE CONTRACTOR PER CITY STANDARD DRAWING NO. E-1, AND APPROVED BY THE COUNTY PRIOR TO INSTALLATION.
- PERFORM CONSTRUCTION STAKING NECESSARY TO COMPLETE THE WORK FOR THE PROJECT. A LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA MUST BE IN "RESPONSIBLE CHARGE" OF ANY SURVEYING PERFORMED. "RESPONSIBLE CHARGE" IS DEFINED IN THE CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION 8703. SURVEYING WILL BE CONDUCTED IN COMPLIANCE WITH ARTICLE 5 OF CHAPTER 15 OF THE BUSINESS AND PROFESSIONS CODE.
- ANY EXISTING SIGNING, STRIPING, AND STENCILING AND/OR IMPROVEMENT SHOWN ON THE PLANS TO REMAIN BUT ARE DAMAGED, DISTURBED OR FADED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH THE COUNTY OF MADERA STANDARDS AND AS DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY OF MADERA PUBLIC WORKS DEPARTMENT AT (559) 675-7811 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO INSTALLING OR REINSTALLING ANY SIGNS, MARKINGS, STRIPING OR STENCILING SUCH AS DIRECTIONAL ARROWS, STOPS, CROSS WALKS, ETC. DAMAGED OR FADED BY THE WORK. THE PUBLIC WORKS DEPARTMENT SHALL BE INFORMED OF ALL LOCATIONS, TYPES, DATES AND SCHEDULE OF WORK.
- THE CONTRACTOR SHALL MEET ALL REGULATIONS OF THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (REGULATION VIII) CONCERNING DUST SUPPRESSION DURING CONSTRUCTION OF THE PROJECT. METHODS INCLUDE, BUT ARE NOT LIMITED TO: USE OF WATER OR CHEMICAL STABILIZERS/SUPPRESSANTS TO CONTROL DUST EMISSIONS FROM DISTURBED AREA, STOCK PILES, AND ACCESS WAYS; COVERING OR WETTING MATERIALS THAT ARE TRANSPORTED OFF-SITE; LIMIT CONSTRUCTION RELATED SPEEDS TO 15 MPH ON ALL UNPAVED AREAS; CEASE GRADING AND EARTH MOVING DURING PERIODS OF HIGH WINDS (20MPH OR MORE).
- EXISTING TEMPORARY PAVEMENT SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL UTILITIES ARE COMPLETED AND PAVING CONTRACTOR IS READY TO REPAIR WITHIN 5 DAYS.
- ALL CURB AND GUTTER AND VALLEY GUTTERS SHALL BE WATER TESTED UNDER THE DIRECTION AND IN THE PRESENCE OF THE COUNTY INSPECTOR PRIOR TO ANY STREET OPERATIONS. ALL SAGS OR HUMPS SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE COUNTY.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY ADJACENT PROPERTY OWNER GIVING HIM PERMISSION TO ENTER HIS PROPERTY FOR PURPOSES OF CONSTRUCTION OF THE IMPROVEMENTS DELINEATED ON THESE PLANS AND TRANSITIONS THERETO. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH A COPY PRIOR TO START OR WORK.
- ALL INTERFERING UTILITY POLES IN THE STREET RIGHT OF WAY ARE TO BE REMOVED/RELOCATED A MINIMUM OF 8' FROM THE EDGE OF THE TRAVELED WAY AND PROVIDE A MINIMUM 4' WIDE PATH OF TRAVEL PRIOR TO ANY PAVING. CONTRACTOR SHALL COORDINATE RELOCATION WITH THE APPROPRIATE UTILITY COMPANY(IES) INCLUDING ALL SCHEDULING, REMOVALS, RELOCATIONS, SITE PREPARATION, EARTHWORK AND GRADING, AND ALL OTHER RELATED TO WORK REQUIRED TO UNDERGROUNDING/RELOCATING EXISTING UTILITIES AS REQUIRED BY THESE PLANS.

TRAFFIC CONTROL

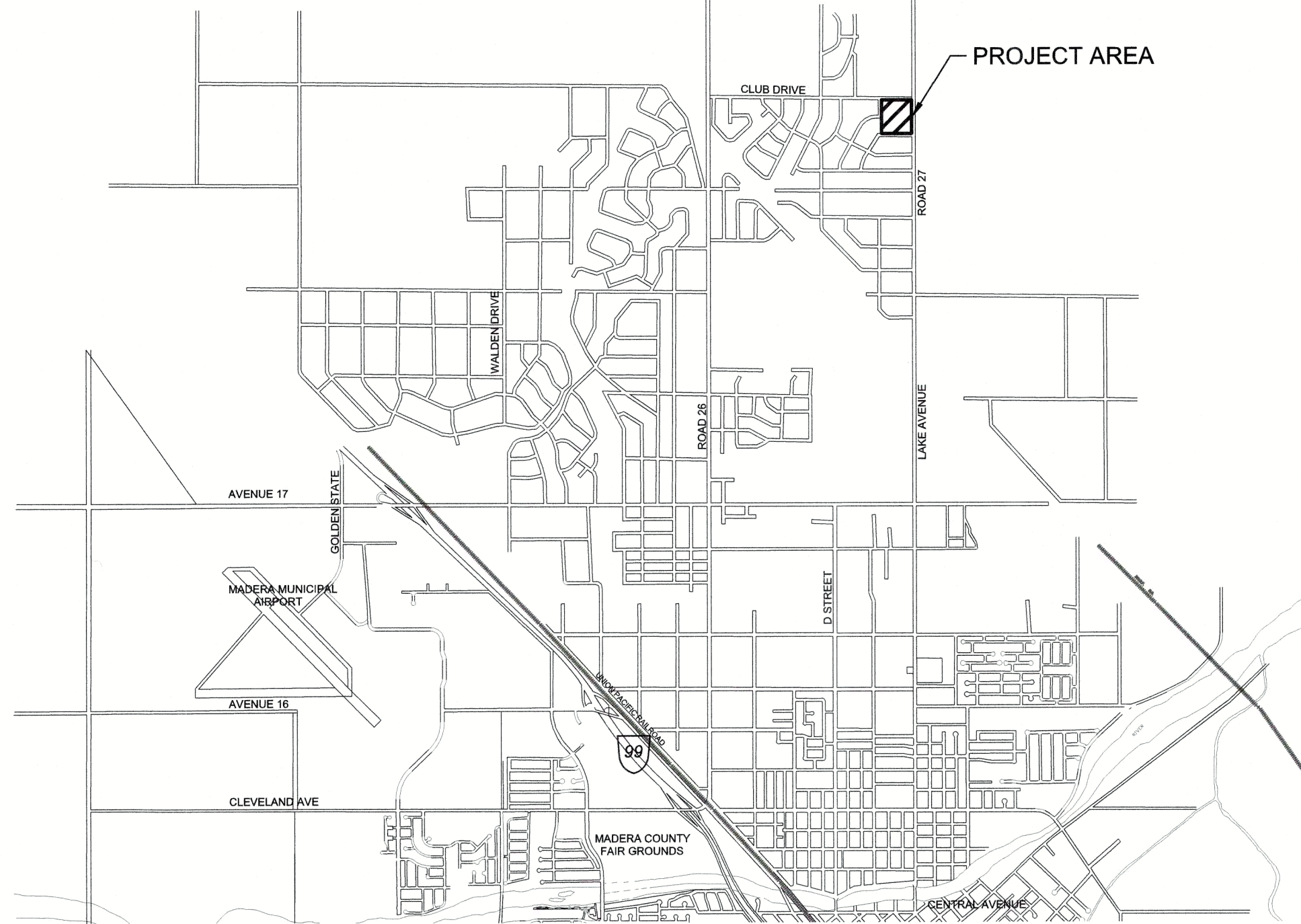
- BEFORE ANY WORK IS STARTED IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE LATEST CALIFORNIA SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, ISSUED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION AND BE APPROVED BY THE COUNTY OF MADERA BEFORE CONSTRUCTION BEGINS. COMPLIANCE WITH THE REQUIREMENTS OF SAID MANUAL SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL SAFETY DEVICES WHEN NECESSARY TO MAINTAIN A SAFE CONDITION.
- ONE 12 FOOT DRIVING LANE MUST BE MAINTAINED IN EACH DIRECTION OF TRAVEL AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE COUNTY OF MADERA PUBLIC WORKS DEPARTMENT. FLAGGERS, OR OTHER APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE UTILIZED THE ENTIRE TIME TRAFFIC IS REDUCED TO ONE DIRECTION
- PRIOR TO COMPLETION OF WORK EACH DAY, THE CONTRACTOR SHALL BACKFILL AND PROVIDE TEMPORARY TRENCH RESURFACING BEFORE LEAVING THE SITE.
- NO PUBLIC STREET SHALL BE CLOSED WITHOUT PRIOR APPROVAL FROM THE COUNTY OF MADERA PUBLIC WORKS DEPARTMENT.
- IF THE PROJECT IMPROVEMENTS NECESSITATE, TEMPORARY REMOVAL AND OR RELOCATION OF TRAFFIC CONTROL SIGNS, MARKINGS OR ANY OTHER TRAFFIC CONTROL DEVICES, THEY SHALL BE MAINTAINED THROUGHOUT THE ENTIRE DURATION OF THE PROJECT AND SHALL BE RESTORED TO THE SATISFACTION OF THE COUNTY OF MADERA PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL POTHOLE LOCATIONS TO JOIN EXISTING UTILITIES PRIOR TO ANY NEW CONSTRUCTION TO VERIFY EXACT DIMENSIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ENCROACHMENT PERMITS ISSUED TO ALLOW WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE REVOKED IF THE ABOVE REQUIREMENTS ARE NOT STRINGENTLY COMPLIED WITH BY THE CONTRACTOR DURING STREET IMPROVEMENT OPERATIONS. REVOKED PERMITS SHALL NOT BE RE-ISSUED UNTIL SUCH TIME AS THE COUNTY OF MADERA PUBLIC WORKS DIRECTOR IS SATISFIED THAT THE CONTRACTOR WILL PERFORM THEIR OPERATION IN COMPLIANCE WITH THE ABOVE REQUIREMENTS INCLUDING THE CONDITIONS OF THE STREET WORK PERMIT.
- CONTRACTOR MUST PROVIDE A CONSTRUCTION AREA SIGN PLAN APPROVED BY THE COUNTY OF MADERA PUBLIC WORKS DEPARTMENT PRIOR TO THE BEGINNING OF CONSTRUCTION.

- SWPPP**
- 65243-149
- DSA APPL NO:**
- 02-121164
28. THE SWPPP IS TO BE KEPT ON SITE AT ALL TIMES AND THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF ALL THE REQUIREMENTS CONTAINED THEREIN.

MADERA UNIFIED SCHOOL DISTRICT

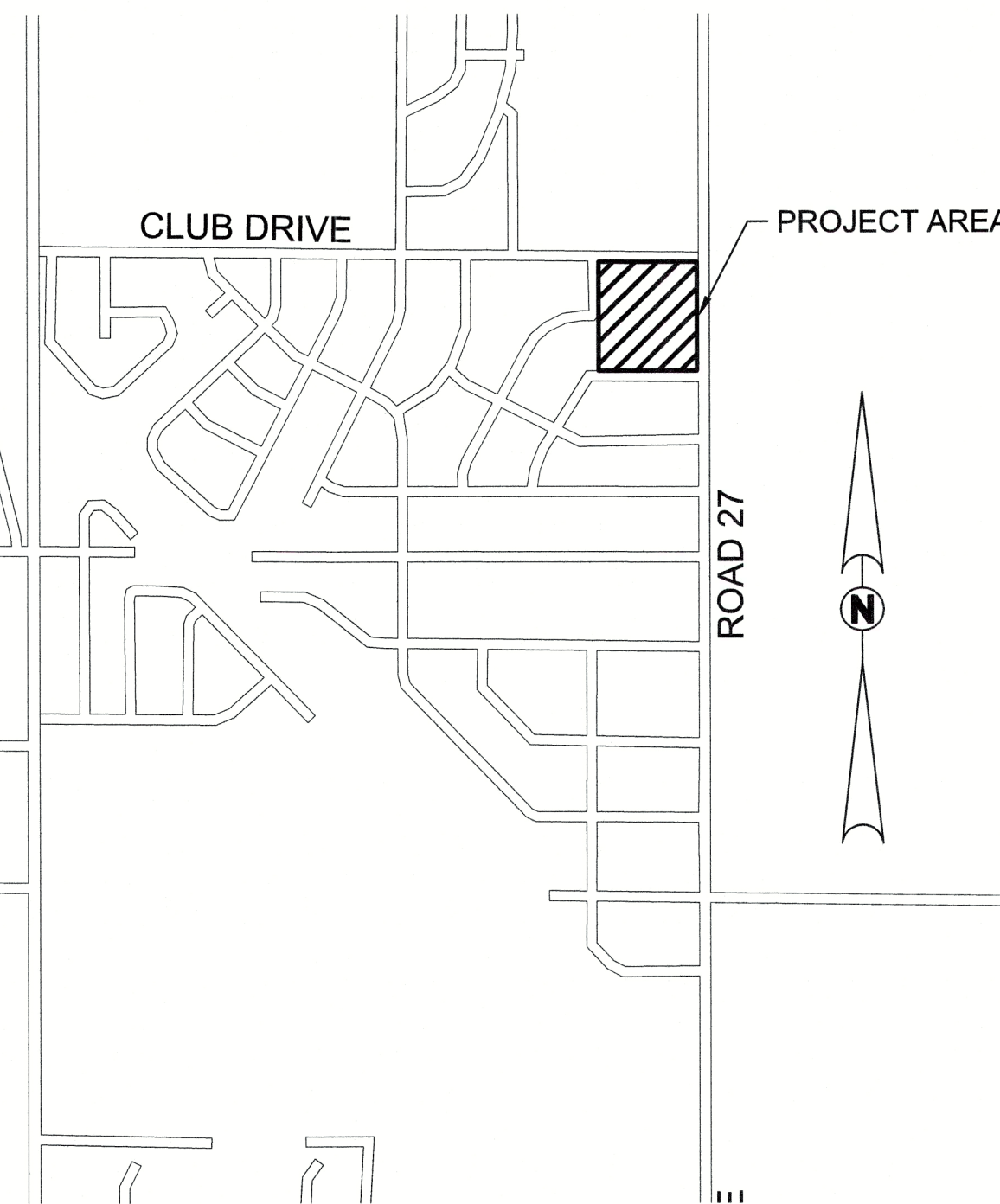
BUS DROP-OFF AND ADA IMPROVEMENTS

BERENDA ELEMENTARY SCHOOL



AREA MAP

NOT TO SCALE



SITE ADDRESS:

BERENDA ELEMENTARY SCHOOL
26820 CLUB DR
MADERA, CA 93638

DSA FILE NO:

20-30

PTN:

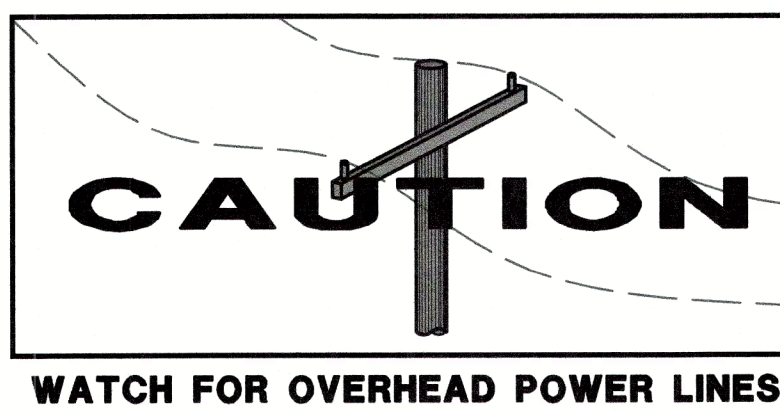
65243-149

DSA APPL NO:

02-121164

VICINITY MAP

NOT TO SCALE



Know what's below.
Call before you dig.

Blair,
Church & Flynn
CONSULTING ENGINEERS



CONSULTANT

Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel: (559) 326-1400
Fax: (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS

COVER SHEET

CONSTRUCTION DOCUMENTS

DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED

C000

FLOOD HAZARD INFORMATION:

FLOOD ZONE DESIGNATION:
ZONE X - AREA OF MINIMAL FLOOD HAZARD

FLOOD INSURANCE RATE MAP (F.I.R.M.) PANEL DESIGNATION:
MAP #06019C1695H

EFFECTIVE DATE OF F.I.R.M.:
FEBRUARY 18, 2009

ENFORCING AGENCY:

DIVISION OF THE STATE ARCHITECT (DSA), SACRAMENTO OFFICE

DEFERRED SUBMITTALS:

NO DEFERRED APPROVALS INCLUDED IN THIS DSA APPLICATION

DETERIORATION OF EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

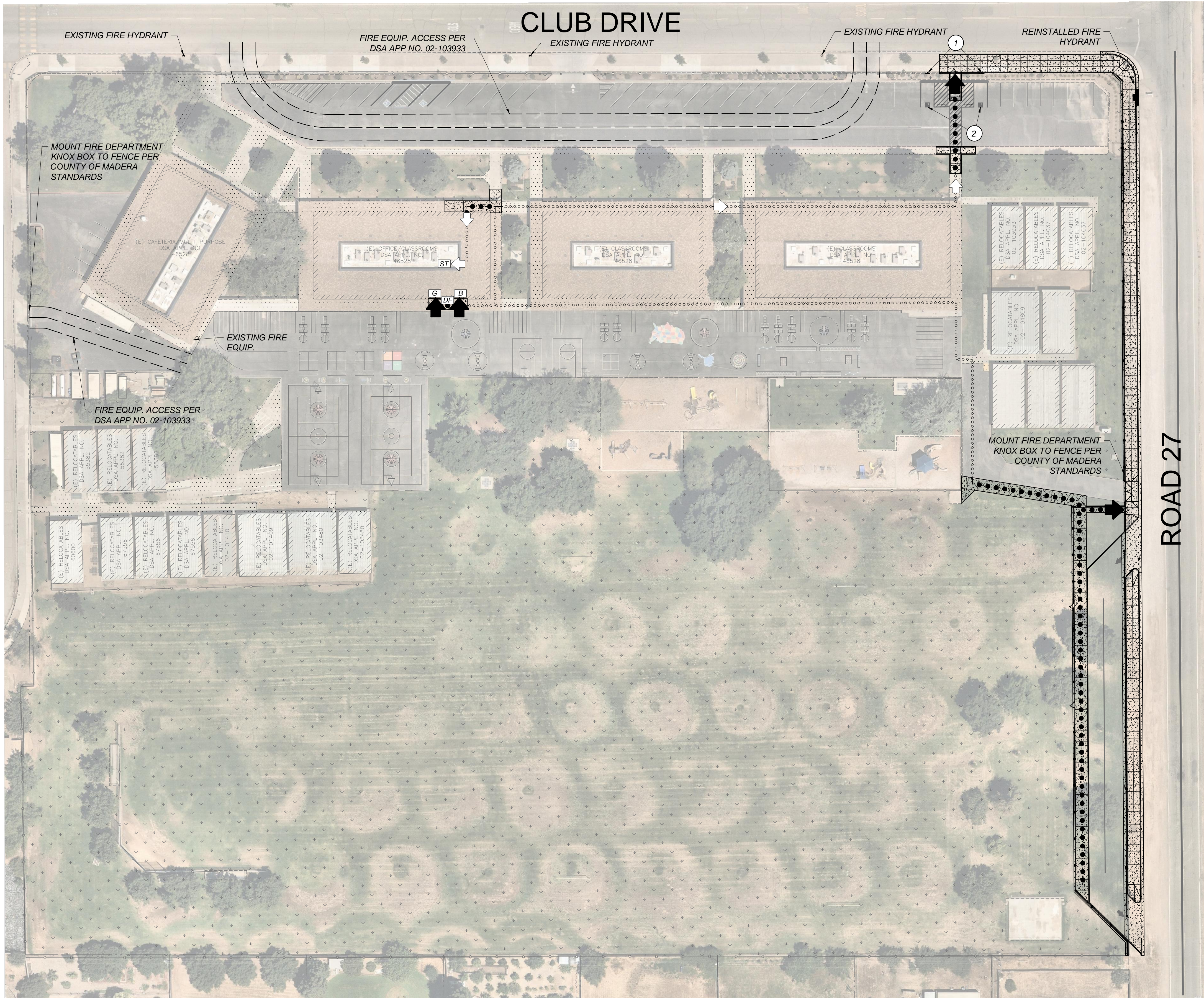
ONSITE STANDARD NOTES:

- A COPY OF TITLE 24 C.C.R. PARTS 1 THROUGH 5 AND 9 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN ACCEPTED SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED BY SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATIONS IR-A6.
- CONSTRUCTION CHANGE DOCUMENTS SHALL BE SIGNED BY THE FOLLOWING, ARCHITECT OR ENGINEER OF RECORD, STRUCTURAL ENGINEER (WHEN APPLICABLE), DELEGATED PROFESSIONAL ENGINEER, DSA.
- ADDENDA SHALL BE APPROVED BY DSA.
- NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF CODES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES.
- ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART I, AND APPROVED DSA-103.
- TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335 OF PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY, COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. TESTING LABORATORY SHALL BE AN APPROVED MEMBER OF THE DSA'S LEA (LABORATORY EVALUATION AND ACCEPTANCE) PROGRAM
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
- A CLASS 4 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b), THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART I.
- CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336 AND 4-343, PART I.
- THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(A), 4-341, AND 4-344, PART I.
- THE CONTRACTOR SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
- DSA IS NOT SUBJECT TO ARBITRATION.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R. A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OFFICE OF REGULATIONS SERVICES BEFORE PROCEEDING WITH THE WORK.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONCERNS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
- PER C.B.C. 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS."

GOVERNING CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2
2019 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3
2019 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4
2019 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5
2019 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9
2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R. TITLE 24, PART 12
2019 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
C.C.R. TITLE 24, PART II
C.C.R. TITLE 19 PUBLIC SAFETY
NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATIONS (AS AMENDED)
UL 484-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2012) EDITION
AMERICANS WITH DISABILITIES ACT

TABLE OF CONTENTS	
SHEET NUMBER	SHEET TITLE
GENERAL	
C000	COVER SHEET
C001	ACCESS COMPLIANCE PLAN
CIVIL	
C100	TOPOGRAPHIC SURVEY LEGEND AND NOTES
C101	TOPOGRAPHIC SURVEY
C102	TOPOGRAPHIC SURVEY
C201	DEMOLITION PLAN
C202	DEMOLITION PLAN
C301	SITE PLAN
C302	SITE PLAN
C401	HORIZONTAL CONTROL PLAN
C402	HORIZONTAL CONTROL PLAN
C501	GRADING PLAN
C502	GRADING PLAN
DETAILS	
X101	DETAILS
X102	DETAILS
X103	DETAILS
X104	COUNTY DETAILS
LANDSCAPE	
L101	IRRIGATION PLAN
L102	IRRIGATION PLAN
L103	IRRIGATION DETAILS
L104	IRRIGATION DETAILS
L201	PLANTING PLAN
L202	PLANTING PLAN
ARCHITECTURAL	
A100	DEMOLITION AND ENLARGED FLOOR PLAN
A101	INTERIOR ELEVATIONS
X1A01	INTERIOR DETAILS
PLUMBING	
P001	PLUMBING SCHEDULE, LEGEND, AND NOTES
P100	PLUMBING SITE PLAN
ELECTRICAL	
E101	ELECTRICAL NOTES
E201	ELECTRICAL SITE PLAN
E301	TITLE 24 DOCUMENTATION
TOTAL SHEETS:	31



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121164 INC:
REVIEWED FOR
SS ☐ FLS ☒ ACS ☒
DATE: 03/21/2023

FOR DSA USE ONLY

SITE LEGEND:

- PROPOSED ACCESSIBLE PATH OF TRAVEL
- EXISTING ACCESSIBLE PATH OF TRAVEL
- EXISTING PROPERTY LINE
- EXISTING BUILDING
- EXISTING CONCRETE TO REMAIN
- EXISTING TURF TO REMAIN
- PROPOSED CONCRETE
- PROPOSED ACCESSIBLE BOYS RESTROOM PER THIS APPLICATION
- PROPOSED ACCESSIBLE GIRLS RESTROOM PER THIS APPLICATION
- EXISTING ACCESSIBLE STAFF RESTROOM PER THIS APPLICATION
- EXISTING ACCESSIBLE DRINKING FOUNTAIN PER DSA APP. NO. 46528
- ACCESSIBLE PARKING SIGNAGE PER THIS APPLICATION
- ACCESSIBLE PARKING STALLS PER THIS APPLICATION

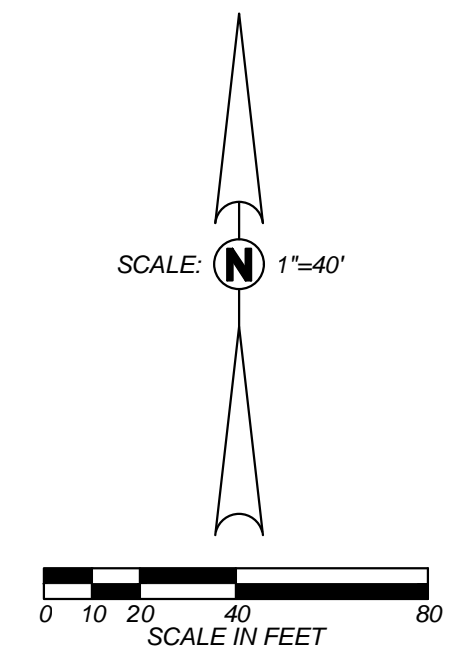
PATH OF TRAVEL REQUIREMENTS:

- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE PATH-OF-TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.

AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OF PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- THE ENGINEER HAS SURVEYED/INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER FREE ACCESSIBLE ROUTE:
 - AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE, WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4".
 - WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE; WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:48 OR LESS.
 - IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE
 - IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
- PASSING SPACES (11B-403.5.3) OF 60"x60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS HAVE 60" IN LENGTH OF LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK (11B-303.5).



Blair, Church & Flynn
Consulting Engineers
461 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500









REGISTERED PROFESSIONAL ENGINEER
LINE R. BADER
No. 47853
CIVIL
STATE OF CALIFORNIA

03-06-23
Date Signed:

CONSULTANT	REF. & REV.	MADERA UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 461 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS	CONSTRUCTION DOCUMENTS
		ACCESS COMPLIANCE PLAN	DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED
			C001

GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

	RCP	REINFORCED CONCRETE		12.55	SURVEY CONTROL MONUMENT	4"SLV	PIPE SLEEVE; DIAMETER AS SHOWN	C	COMMUNICATION LINE
AB	ABUTMENT	RHEL	RIPARIAN EDGE OF LAKE	DF	DRINKING FOUNTAIN		SEWER MANHOLE	350	MAJOR GRADE CONTOUR LINE
AC	ASPHALTIC CONCRETE	RREP	RIPARIAN EDGE OF POND	DS	DOORSTOP		SERVICE POLE	34.5	MINOR GRADE CONTOUR LINE
ACE	ASPHALTIC CONCRETE EDGE	RRES	RIPARIAN EDGE OF STREAM	ODW	DRYWELL		SIGNAL PULLBOX	CW 2"	CHILLED WATER LINE; SIZE AS NOTED
AD	ASPHALTIC CONCRETE DIKE	RREW	RIPARIAN EDGE OF WETLAND	EG	ELECTRICAL GROUND	*	SPRINKLER	CWR 2"	CHILLED WATER RETURN LINE; SIZE AS NOTED
AWT	ALL-WEATHER TRACK	RFL	RIPARIAN FLOWLINE	ELC	ELECTRICAL CONDUIT	4" SPO	STEEL POST; DIAMETER AS SHOWN	CWS 2"	CHILLED WATER SUPPLY LINE; SIZE AS NOTED
BD	BRIDGE DECK	RIMC	RIPARIAN MISC.		ELECTRICAL METER	12" SS	SAND SEPARATOR; SIZE AS NOTED	---	LIMIT OF DIRT
BFC	BOTTOM FACE OF CURB	RIP	RIP-RAP SLOPE PROTECTION	EPB	ELECTRICAL PULLBOX	24" STP	STAND PIPE; DIAMETER AS NOTED	---	LIMIT OF TURF
BGST	STEPS	RK	ROCK		ELECTRICAL VAULT LID	12" STUMP	TREE STUMP; DIAMETER AS SHOWN	DL 1"	DRAIN LINE; SIZE AS NOTED
BGTR	TOP OF ROOF	RW	RETAINING WALL	ETS	GAS ELECTRONIC TESTING STATION	MW	SURVEY MONUMENT WELL	EMS	EMERGENCY MANAGEMENT SYSTEM
BGV	BUILDING VENTS	SB	SPEED BUMP	PDC	FIRE DEPARTMENT CONNECTION	4" TEL	TELEPHONE; DIAMETER AS SHOWN	FA	FIRE ALARM LINE
BOD	BOTTOM OF DITCH	SDCD	STORM DRAIN CROSS DRAIN		FIRE HYDRANT		TELEPHONE MANHOLE	F 8"	FIRE LINE; SIZE AS NOTED
BR	BARRICADE	SDFL	STORM DRAIN FLOWLINE	FP	FENCE POST	IN	TENNIS NET POLE	FO	FIBER OPTIC LINE
BRK	BRICK	SDGR	STORM DRAIN GRATE	FLP	FLAG POLE		TELEPHONE POLE	---	DRAIN TUBE
BW	BARRIER WALL	SDMG	STORM DRAIN MANHOLE W/ GRATE	GAS	GAS LINE; DIAMETER AS SHOWN	TPB	TELEPHONE PULLBOX	HW 2"	HOT WATER LINE; SIZE AS NOTED
CB	CATCH BASIN	SSFL	SEWER FLOWLINE	GR	GAS REGULATOR	TPB	TELEVISION PULLBOX	HW 2"	HOT WATER RETURN LINE; SIZE AS NOTED
CD	CONCRETE DRIVE APPROACH	SDTH	STORM DRAIN TRENCH		IRRIGATION GATE VALVE		TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN	HW 2"	HOT WATER SUPPLY LINE; SIZE AS NOTED
CE	CONCRETE EDGE	SSGT	STORM DRAIN GREASE TRAP		GAS METER		PALM TREE; SPREAD SHOWN GRAPHICALLY	HYD	HYDRAULIC LINE
CMP	CORRUGATED METAL PIPE	SSST	SEWER TANK (SEPTIC)	ODP	GOAL POST		TELEPHONE SPLICE BOX	ID 18"	IRRIGATION DISTRICT; SIZE AS NOTED
CON	CONCRETE	SSTH	SEWER TRENCH	GP	GUY POLE		TRAFFIC SIGNAL POLE	IRR 3"	IRRIGATION MAIN LINE; SIZE AS NOTED
COTH	COMMUNICATION TRENCH	SRK	SIDEWALK	4" OR	GRATE; DIAMETER AS SHOWN		TRAFFIC SIGNAL PULLBOX	L 1"	IRRIGATION LATERAL LINE; SIZE AS NOTED
CR	CROWN OF ROAD	SWL	SWALE	GS	GATE STOP		UTILITY POLE	ITS	INTELLIGENT TRAFFIC SYSTEM
CRO	QUARTER CROWN	T	TURF	GR	GAS RISER	IB	VACUUM BREAKER	JT	JOINTLY TRENCHED UTILITIES
CS	CONCRETE SLAB	TBC	TOP BACK OF CURB	GRD	GAS VALVE	IN	VOLLEYBALL NET POST	OC	OVERHEAD COMMUNICATIONS LINE
CULV	CULVERT	TBW	TOP BACK OF WALK	GRD	GROUNDING ROD	2" VP	VENT PIPE; DIAMETER AS SHOWN	OE	OVERHEAD ELECTRIC LINE
CW	CONCRETE WALL	TF	TOP OF FOOTING	GUY	GUY WIRE	WELL	WELL	OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE
DD	DOWN DRAIN	TFC	TOP FACE OF CURB	HB	HOSE BIBB		WATER METER	OET	OVERHEAD ELECTRIC AND TELEPHONE LINE
DFL	DITCH FLOWLINE	TFW	TOP FACE OF WALK	HR	HANDRAIL	WP	WELL PUMP	OETV	OVERHEAD ELECTRIC AND TELEVISION LINE
DWY	DRIVEWAY	TLTH	TELEPHONE TRENCH	KCB	IRRIGATION CONTROLLER	6" WPD	CIRCULAR WOOD POST; DIAMETER AS SHOWN	OETVT	OVERHEAD ELECTRIC, TELEVISION AND TELEPHONE LINE
EGTH	ELECTRICAL TRENCH	TOB	TOP OF BANK		IRRIGATION REMOTE CONTROL VALVE	4" X 4" WPD	SQUARE WOOD POST; SIZE AS SHOWN	OTS	OVERHEAD TRAFFIC SIGNAL LINE
EDR	EDGE OF DIRT ROAD	TOE	TOE OF SLOPE		IRRIGATION SPLICE BOX	4" W	WATER LINE; DIAMETER AS SHOWN	OTV	OVERHEAD TELEVISION LINE
EDR	EDGE OF GRAVEL ROAD	TOP	TOP OF SLOPE		IN-GROUND HOSE BIBB	WV	WATER VALVE	OU	OVERHEAD UTILITY LINE
EDO	EDGE OF OILED DIRT	TRDO	TRUNCATED DOMES		MAIL BOX		ASPHALT PAVEMENT	P 6"	PETROLEUM LINE; SIZE AS NOTED
EP	EDGE OF PAVEMENT	TVTH	TV TRENCH		MANHOLE		CONCRETE BLOCK WALL	RW 3"	RECYCLED WATER IRRIGATION LINE; SIZE AS NOTED
ES	EDGE OF SHOULDER	TW	TOP OF WALL		MANUAL IRRIGATION VALVE		CONCRETE	8"	SEWER AND STORM DRAIN LINE; SIZE AS NOTED
ET	EDGE OF TRAVELED WAY	UTH	UNIDENTIFIED TRENCH/SCAR LINE		PULLBOX		DETECTABLE WARNINGS	SFM 6"	SEWER FORCE MAIN; SIZE AS NOTED
FF	FINISH FLOOR	VGFL	VALLEY GUTTER FLOWLINE		POST INDICATOR VALVE		DG OR GRAVEL	ST 2"	STEAM LINE; SIZE AS NOTED
FOTH	FIBER OPTIC TRENCH	VGR	VALLEY GUTTER		UTILITY STUB		CHAIN LINK FENCE	TFD	TRAFFIC FIBER OPTIC LINE
GB	GRADE BREAK	WALBA	BARRIER WALL		POST; DIAMETER AS SHOWN		CHAIN LINK ROLL GATE	TS	TRAFFIC SIGNAL LINE
GFL	GUTTER FLOWLINE	WALBW	BLOCK WALL		PVC PIPE; DIAMETER AS SHOWN		EDGE OF ASPHALT PAVEMENT	TV	TELEVISION LINE
GRA	GRAVEL SPOT SHOT	WALCW	CONCRETE WALL		QUICK COUPLER VALVE		WOOD FENCE	UNK	UNKNOWN UTILITY LINE
GRAE	EDGE OF GRAVEL	WALCW	CONCRETE WALL		ROOF DRAIN		DIRECTION OF FLOW	X	WIRE FENCE
GSTH	GAS TRENCH	WALRW	HEAD WALL		ROOF DRAIN UNDERGROUD		UNDERGROUND ELECTRIC	---	PROPERTY LINE
HDR	WOOD HEADER	WALRW	RETAINING WALL		ROOF SUPPORT		GAS LINE; SIZE AS NOTED	---	CITY LIMIT
HW	HEAD WALL	WALWW	WING WALL		STADIUM LIGHT POLE		OVERHEAD TELEPHONE	---	EASEMENT 1
KR	K-RAIL	WCR	WHEELCHAIR RAMP		STORM DRAIN MANHOLE		STORM DRAIN LINE; SIZE AS NOTED	---	EASEMENT 2
KR	K-RAIL	WLPD	WELL PAD		SIGN		SEWER LINE; SIZE AS NOTED	---	RIGHT-OF-WAY LINE
LIP	LIP OF GUTTER	WTH	WATER TRENCH		SIGNAL LIGHT PUSH BUTTON		UNDERGROUND TELEPHONE	---	RIGHT-OF-WAY CENTER LINE
LSDE	DECOMPOSED GRANITE EDGE	WW	WING WALL		STREET LIGHT		WATER LINE; SIZE AS NOTED	---	SETBACK LINE
LSDE	DECOMPOSED GRANITE	WALPD	WELL PAD		PIPE SLEEVE; DIAMETER AS SHOWN		SLOPE		
LSGC	GROUND COVER	WCR	WHEELCHAIR RAMP		STREET LIGHT PULLBOX				
LSGF	GOLF COURSE FAIRWAY	WTH	WATER TRENCH						
LSGG	GOLF COURSE GREEN	WW	WING WALL						
LSGT	GOLF COURSE TEE	WALPD	WELL PAD						
LSGA	SAND	WCR	WHEELCHAIR RAMP						
LSGP	SLOPE PROTECTION	WTH	WATER TRENCH						
LSST	GOLF COURSE SAND TRAP	WW	WING WALL						
NPTH	NON-POTABLE TRENCH	WALPD	WELL PAD						
PA	PATIO	WCR	WHEELCHAIR RAMP						
PGTH	PROPANE GAS TRENCH	WTH	WATER TRENCH						
PDS	POINT ON SLOPE	WW	WING WALL						

SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MARCH 9, 2022 AND APRIL 20, 2022.
- UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER. TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY, THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

SITE BENCHMARK #1:

CHISELED "X" ON THE SOUTH EDGE OF THE CONCRETE PAD AT THE SOUTHEAST CORNER OF THE PLAYFIELD.

ELEV.=305.45 NAVD88 DATUM

SITE BENCHMARK #2:

SPIKE IN THE TURF APPROXIMATELY 73' SOUTHERLY OF THE SOUTHEASTERN MOST SET OF PORTABLE CLASSROOMS.

ELEV.=301.31 NAVD88 DATUM

SITE BENCHMARK #3:

SPIKE IN THE EAST SHOULDER OF ROAD 27 APPROXIMATELY 45' EAST OF THE END OF THE CURB RETURN AT THE SOUTHWEST CORNER OF ROAD 27 AND CLUB DRIVE.

ELEV.=301.46 NAVD88 DATUM

SITE BENCHMARK #4:

CHISELED "X" IN THE SIDEWALK APPROXIMATELY 11' NORTHEAST OF THE NORTHEAST CORNER OF CLASSROOM BUILDING 1.

ELEV.=299.53 NAVD88 DATUM



Blair,
Church & Flynn
CONSULTING ENGINEERS



CONSULTANT

Blair, Church & Flynn
Consulting Engineers
455 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

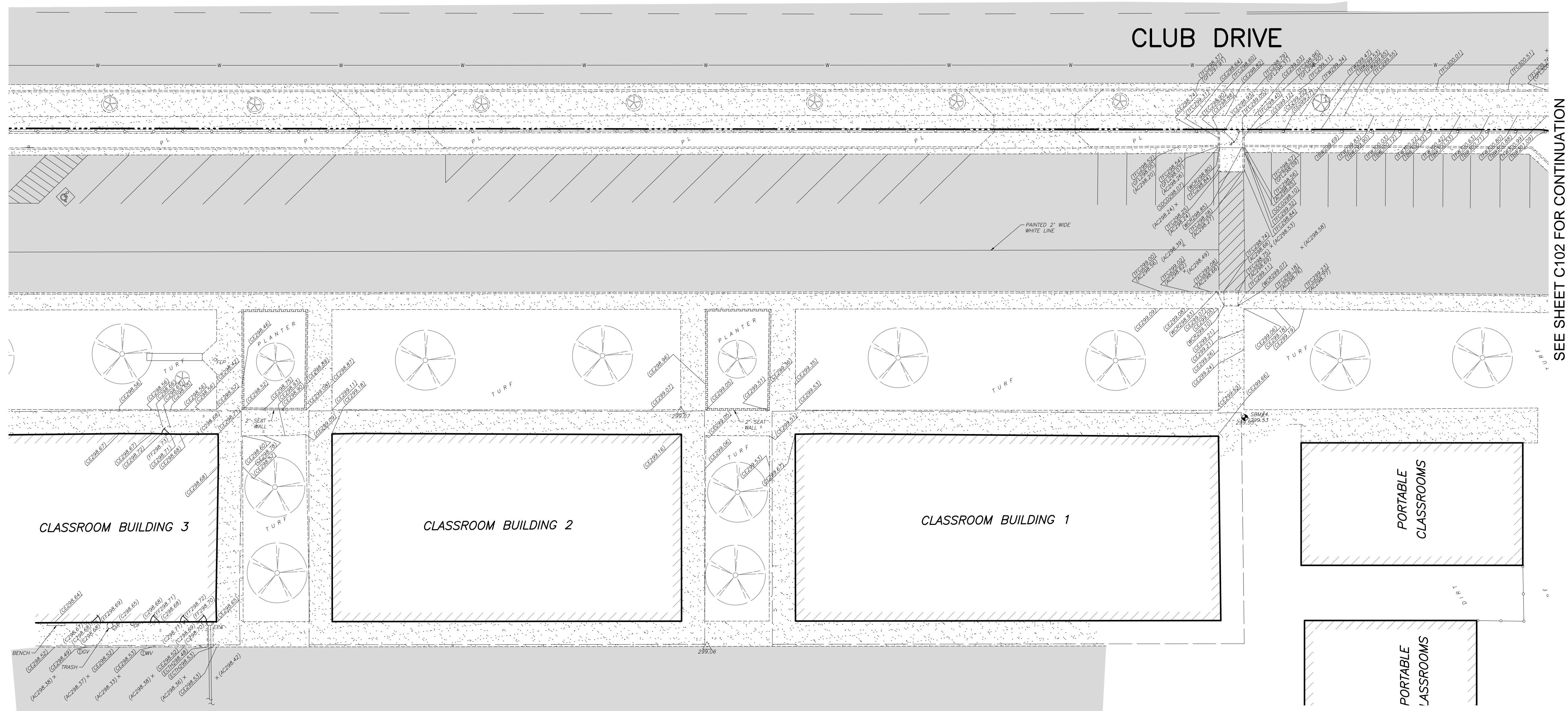
MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
TOPOGRAPHIC SURVEY
LEGEND AND NOTES

CONSTRUCTION DOCUMENTS

C100

DR. BY: S. DUNCAN
CH. BY: L. BADGER
DATE: 3/8/2023
SCALE AS NOTED



SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MARCH 9, 2022 AND APRIL 20, 2022.
2. UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

SITE BENCHMARK #1:

CHISELED "X" ON THE SOUTH EDGE OF THE CONCRETE PAD AT THE SOUTHEAST CORNER OF THE PLAYFIELD.

ELEV.=305.45 NAVD88 DATUM

SITE BENCHMARK #2:

SPIKE IN THE TURF APPROXIMATELY 73' SOUTHERLY OF THE SOUTHEASTERN MOST SET OF PORTABLE CLASSROOMS.

ELEV.=301.31 NAVD88 DATUM

SITE BENCHMARK #3:

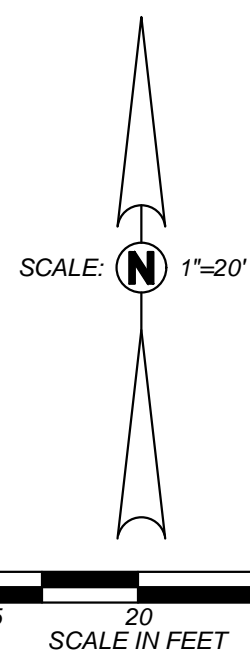
SPIKE IN THE EAST SHOULDER OF ROAD 27 APPROXIMATELY 45' EAST OF THE END OF THE CURB RETURN AT THE SOUTHWEST CORNER OF ROAD 27 AND CLUB DRIVE.

ELEV.=301.46 NAVD88 DATUM

SITE BENCHMARK #4:

CHISELED "X" IN THE SIDEWALK APPROXIMATELY 11' NORTHEAST OF THE NORTHEAST CORNER OF CLASSROOM BUILDING 1.

ELEV.=299.53 NAVD88 DATUM

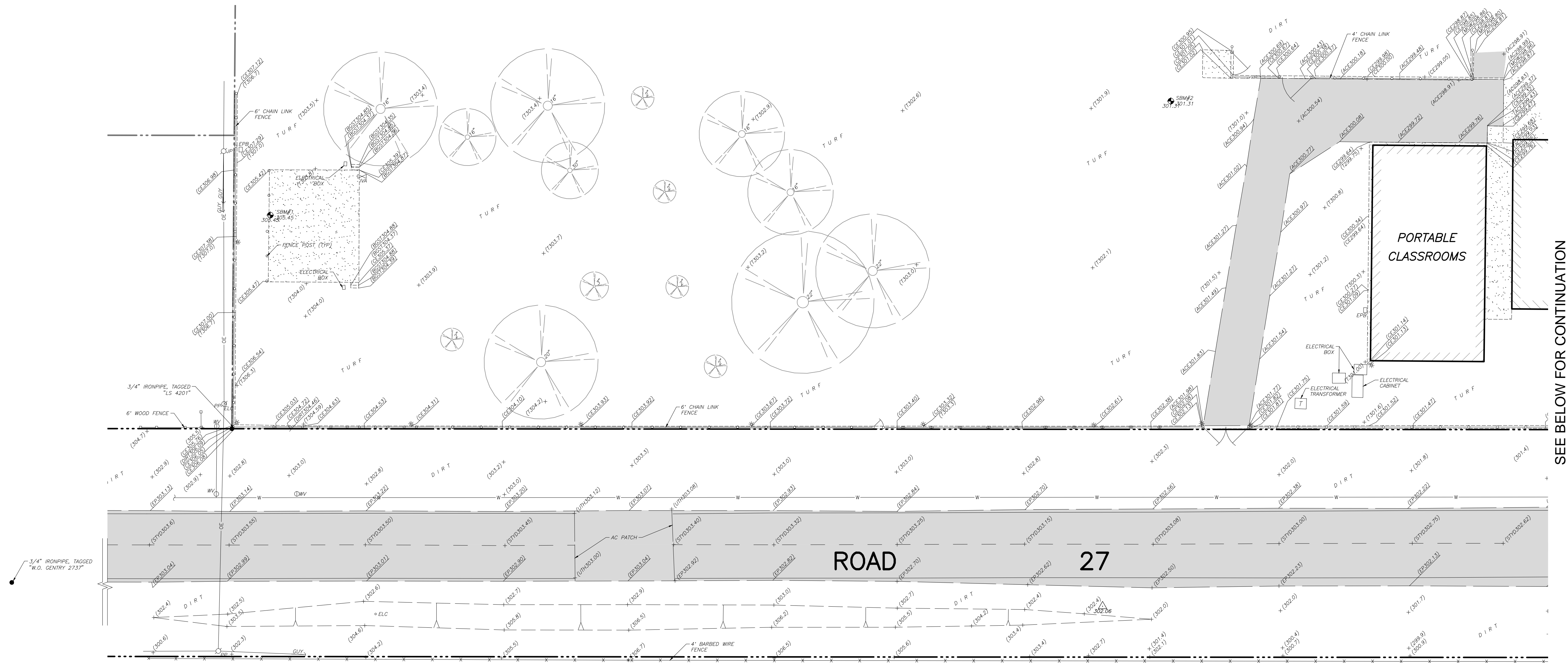


Blair, Church & Flynn
Consulting Engineers
451. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER
LANE R. BADER
No. 47,553
CIVIL
STATE OF CALIFORNIA

03-06-23
Date Signed:

CONSULTANT	REF. & REV.	MADERA UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 451. Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS TOPOGRAPHIC SURVEY	CONSTRUCTION DOCUMENTS
			DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED
			C101



SEE BELOW FOR CONTINUATION

SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MARCH 9, 2022 AND APRIL 20, 2022.
2. UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER. TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY, THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

SITE BENCHMARK #1:

CHISELED "X" ON THE SOUTH EDGE OF THE CONCRETE PAD AT THE SOUTHEAST CORNER OF THE PLAYFIELD.

ELEV.=305.45 NAVD88 DATUM

SITE BENCHMARK #2:

SPIKE IN THE TURF APPROXIMATELY 73' SOUTHERLY OF THE SOUTHEASTERN MOST SET OF PORTABLE CLASSROOMS.

ELEV.=301.31 NAVD88 DATUM

SITE BENCHMARK #3:

SPIKE IN THE EAST SHOULDER OF ROAD 27 APPROXIMATELY 45' EAST OF THE END OF THE CURB RETURN AT THE SOUTHWEST CORNER OF ROAD 27 AND CLUB DRIVE.

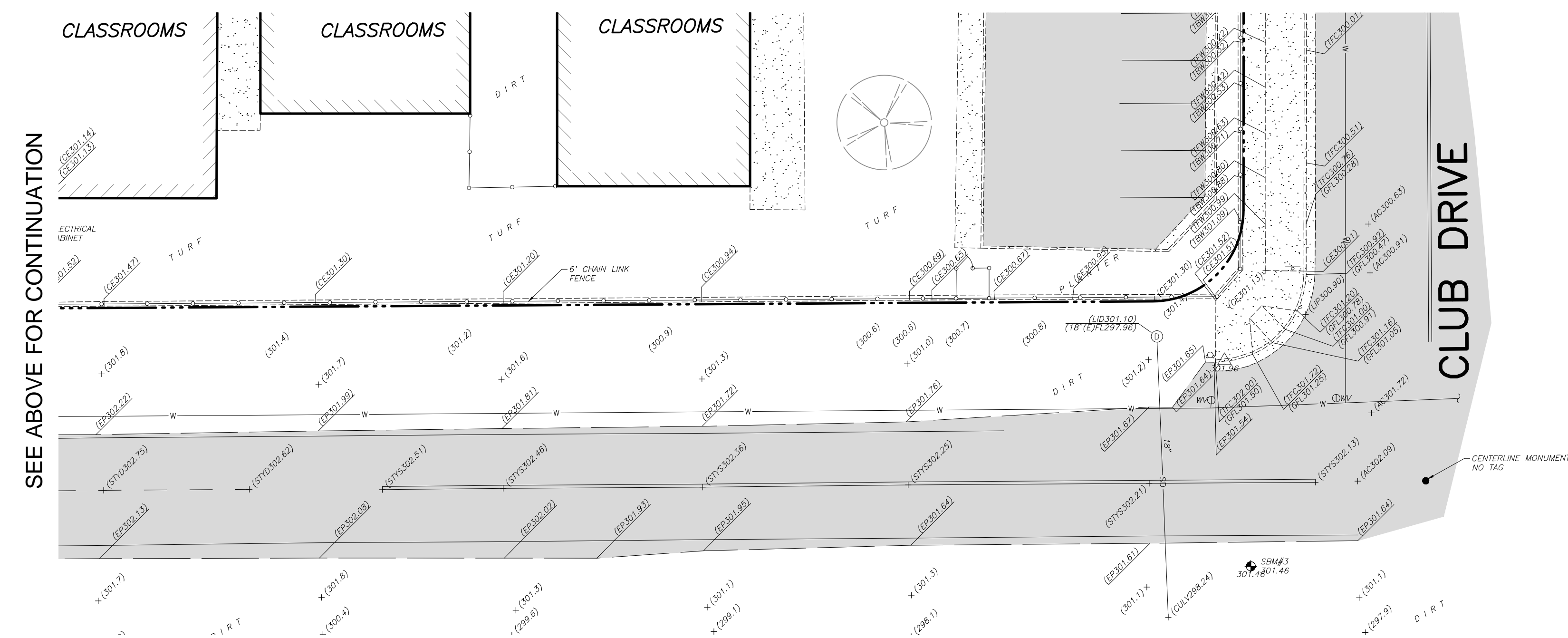
ELEV.=301.46 NAVD88 DATUM

SITE BENCHMARK #4:

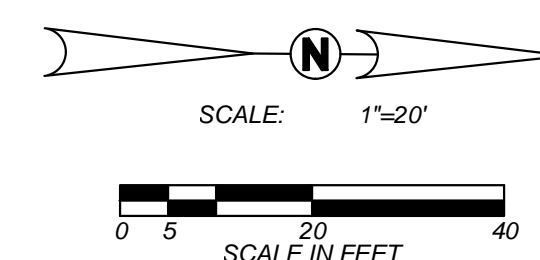
CHISELED "X" IN THE SIDEWALK APPROXIMATELY 11' NORTHEAST OF THE NORTHEAST CORNER OF CLASSROOM BUILDING 1.

ELEV.=299.53 NAVD88 DATUM

SEE SHEET C101 FOR CONTINUATION



SEE ABOVE FOR CONTINUATION



Know what's below.
Call before you dig.

**Blair,
Church & Flynn**
CONSULTING ENGINEERS



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

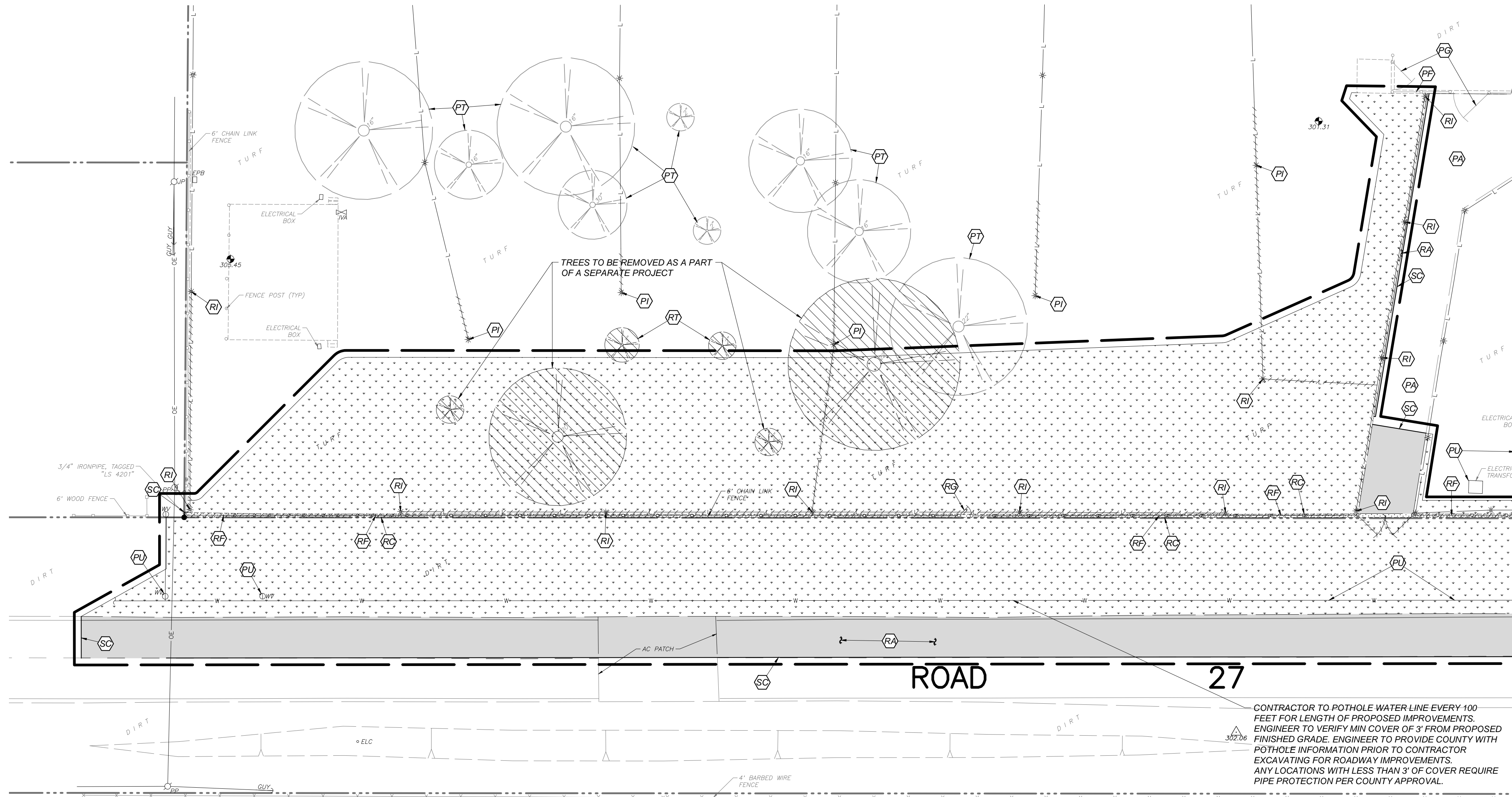
MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
TOPOGRAPHIC SURVEY

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED

C102

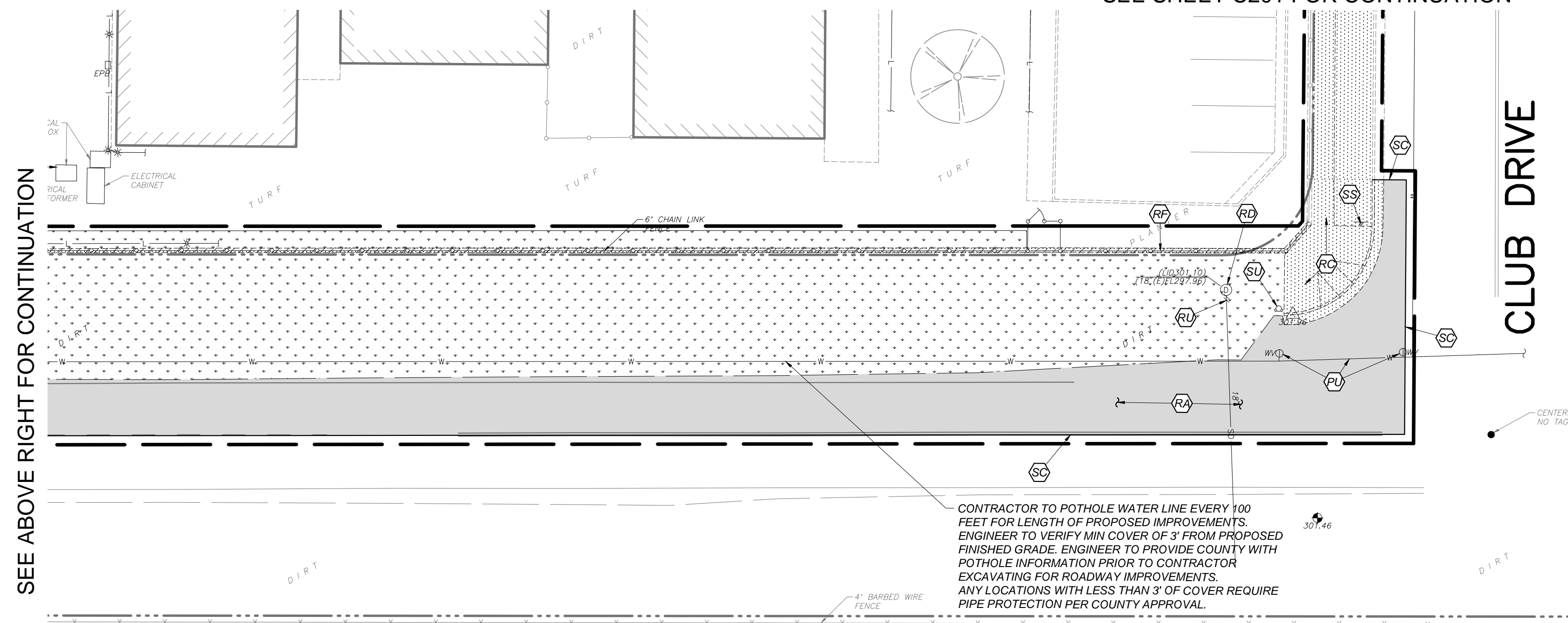
FOR DSA USE ONLY



SEE BELOW LEFT FOR CONTINUATION

CONTRACTOR TO POT HOLE WATER LINE EVERY 100 FEET FOR LENGTH OF PROPOSED IMPROVEMENTS. ENGINEER TO VERIFY MIN COVER OF 3' FROM PROPOSED FINISHED GRADE. ENGINEER TO PROVIDE COUNTY WITH POT HOLE INFORMATION PRIOR TO CONTRACTOR EXCAVATING FOR ROADWAY IMPROVEMENTS. ANY LOCATIONS WITH LESS THAN 3' OF COVER REQUIRE PIPE PROTECTION PER COUNTY APPROVAL.

SEE SHEET C201 FOR CONTINUATION



SEE ABOVE RIGHT FOR CONTINUATION

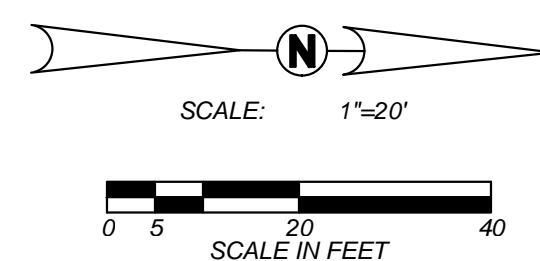
CONTRACTOR TO POT HOLE WATER LINE EVERY 100 FEET FOR LENGTH OF PROPOSED IMPROVEMENTS. ENGINEER TO VERIFY MIN COVER OF 3' FROM PROPOSED FINISHED GRADE. ENGINEER TO PROVIDE COUNTY WITH POT HOLE INFORMATION PRIOR TO CONTRACTOR EXCAVATING FOR ROADWAY IMPROVEMENTS. ANY LOCATIONS WITH LESS THAN 3' OF COVER REQUIRE PIPE PROTECTION PER COUNTY APPROVAL.

DEMOLITION LEGEND:

- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
- LIMITS OF CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL
- COMPLETELY COVER EXISTING ADA STRIPING WITH BLACK PAINT PRIOR TO REMOVAL APPLICATION
- PROTECT ASPHALT CONCRETE PAVEMENT TO REMAIN
- PROTECT BUILDING TO REMAIN
- PROTECT CONCRETE IMPROVEMENTS TO REMAIN
- PROTECT FENCE TO REMAIN
- PROTECT GATE TO REMAIN
- PROTECT IRRIGATION HEAD TO REMAIN. SEE IRRIGATION PLAN FOR NOZZLE ADJUSTMENT.
- PROTECT TREE AND ROOTS TO REMAIN
- PROTECT UTILITY TO REMAIN
- REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
- REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
- REMOVE DRAIN INLET AND APPROXIMATELY 1' OF 18" SD PIPE. REFER TO GRADING PLAN FOR NEW DI CONNECTION
- REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- REMOVE AND LAWFULLY DISPOSE OF GATE
- REMOVE AND SALVAGE IRRIGATION HEAD. RETURN TO DISTRICT.
- SALVAGE AND RE-INSTALL TRASH CAN
- REMOVE EXISTING SIGN, POST, AND FOOTING
- REMOVE TREE
- REMOVE AND LAWFULLY DISPOSE OF UTILITY
- SAWCUT
- SALVAGE SIGN AND RE-INSTALL PER SITE PLAN. INSTALL TEMP CONSTRUCTION STOP SIGN UNTIL PERMANENT SIGN IS REINSTALLED.
- SALVAGE UTILITY AND RE-INSTALL PER SITE PLAN
- LIMIT OF CHAIN LINK FENCE REMOVAL

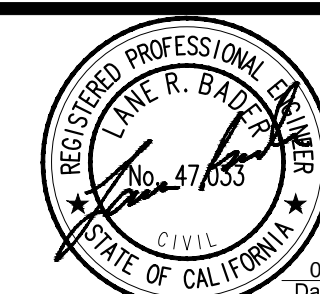
GENERAL DEMOLITION NOTES:

- THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
- CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
- THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS, AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POT HOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
- CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
- ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
- CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
- ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
 - FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
 - FOR ASPHALTIC PAVEMENT REMOVAL, SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
- REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
- COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.



Know what's below.
Call before you dig.

Blair,
Church & Flynn
CONSULTING ENGINEERS



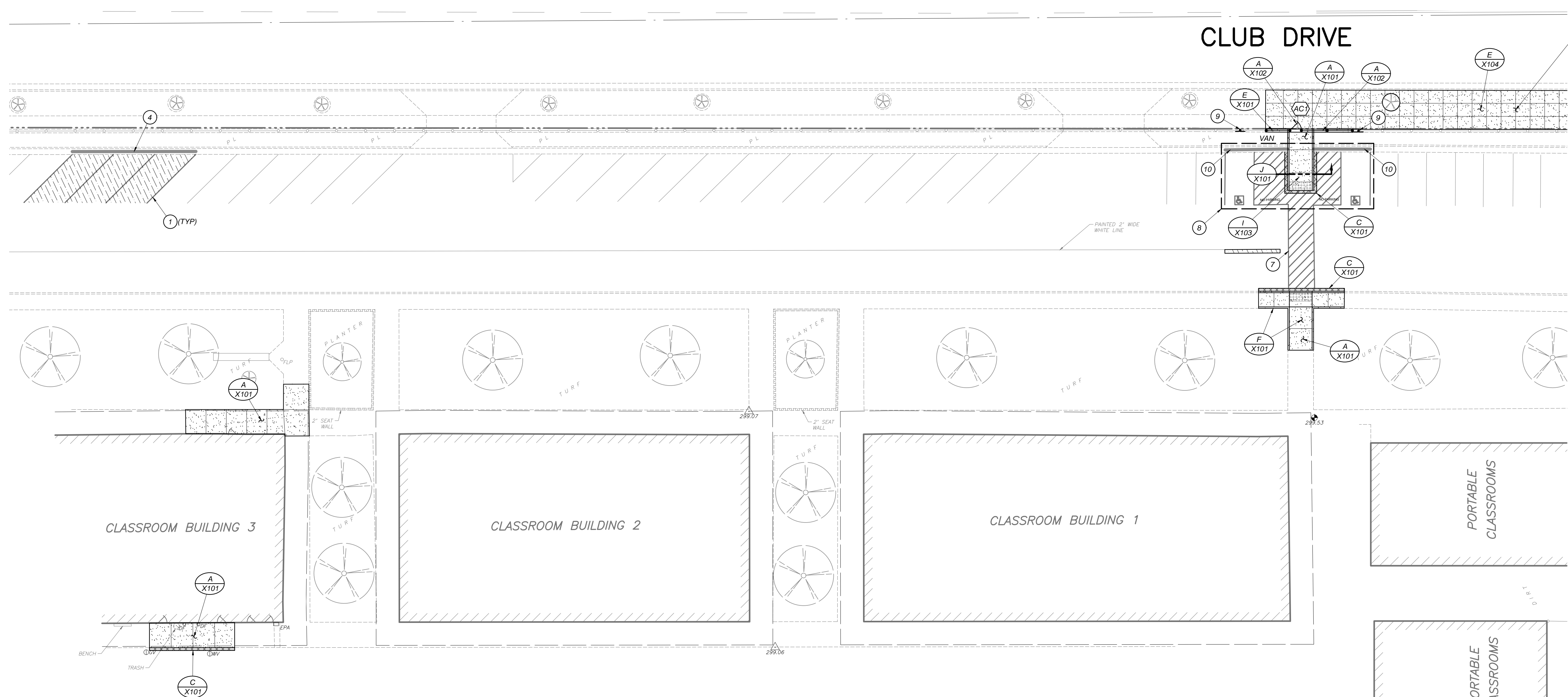
CONSULTANT
Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
C202

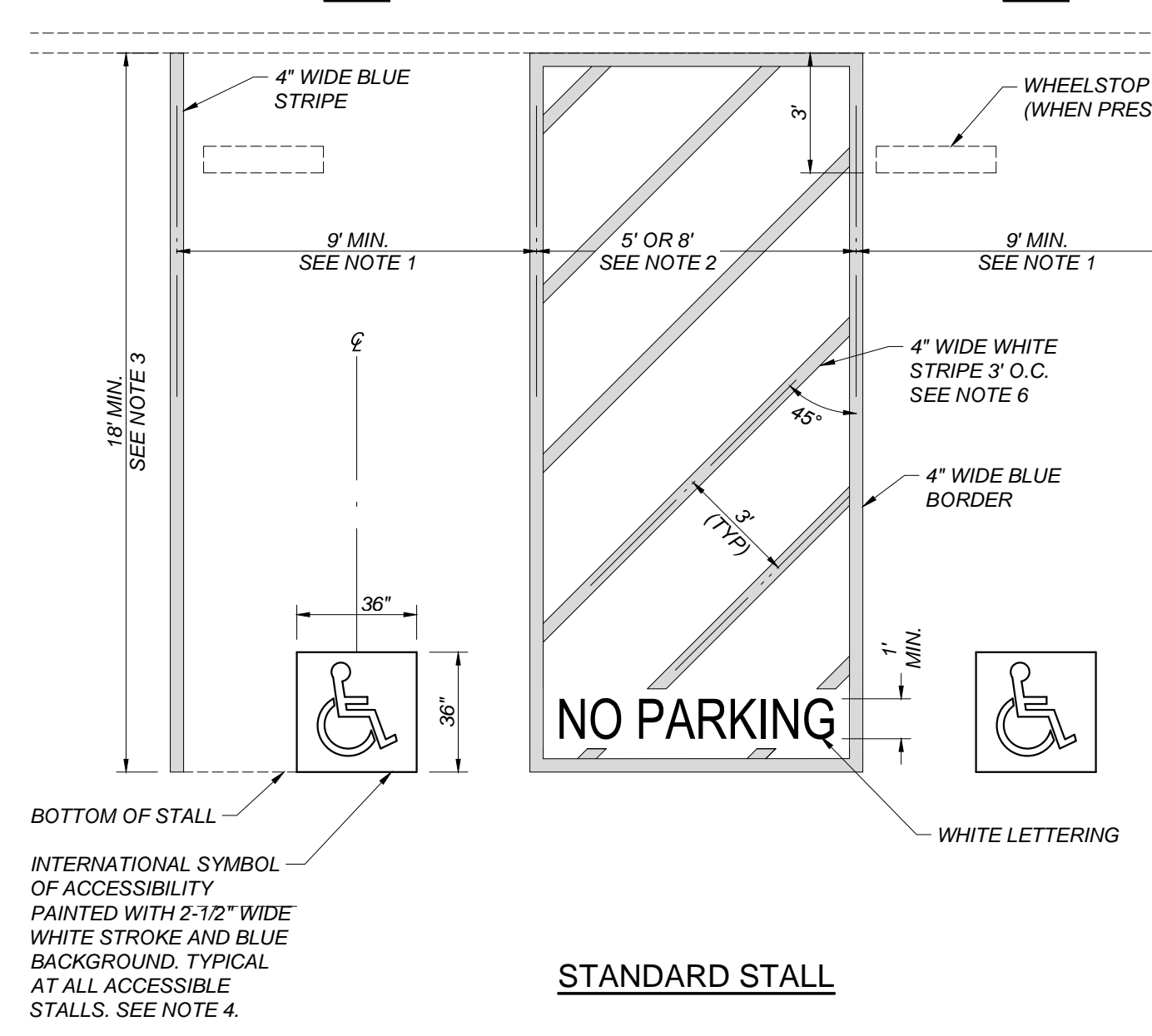


- SITE LEGEND:**
- LIMITS OF CONCRETE IMPROVEMENTS
 - LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS PER DETAIL [H/X101]
 - LIMITS OF ASPHALT PLUG IMPROVEMENTS PER DETAIL [C/X101]
 - LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/X101]
 - LIMITS OF HEAVY DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/X101]
 - DETECTABLE WARNINGS PER DETAIL [I/X101]
 - LIMITS OF SEAL COAT, APPLY SEAL COAT PER PROJECT SPECIFICATIONS
 - LIMITS OF PAINTED CURB
 - PLANTER
 - PAINT 4" WIDE WHITE LINE
 - PAINT YELLOW STRIPING PER CALTRANS STANDARD PLAN A20A DETAIL 21
 - REINSTALL EXISTING FIRE HYDRANT PER DETAILS [FX104] AND [GX104]
 - PAINT TOP AND FACE OF CURB WHITE
 - MOUNT FIRE DEPARTMENT KNOX BOX TO FENCE PER COUNTY OF MADERA STANDARDS
 - CONCRETE CURB RAMP PER DETAIL [D/X104]
 - PAINT 4" WIDE BLUE BORDER WITH 4" WIDE WHITE DIAGONAL LINES AT 3" ON CENTER
 - STANDARD ACCESSIBLE PARKING STALL. SEE [A/C301] FOR ALL ACCESS REQUIREMENTS
 - ACCESSIBLE PARKING SIGNAGE PER DETAIL [B/C301], MOUNT TO FENCE PER DETAIL [D/X103]
 - PAINT TOP AND FACE OF CURB BLUE
 - PAINT WHITE EDGELINE STRIPING PER CALTRANS STANDARD PLAN A20B DETAIL 27B

- GATE HARDWARE LEGEND:**
- PEDESTRIAN ACCESSIBLE EGRESS GATE, KEYED 'NIGHT' TYPE LATCH AND PANIC HARDWARE PER [A/X102] AND [B/X102]
 - PEDESTRIAN ACCESSIBLE DOUBLE SWING GATE, KEYED 'NIGHT' TYPE LATCH AND PANIC HARDWARE PER [B/X103] AND [C/X103]
 - MAINTENANCE USE GATE - LOCKABLE FORK LATCH

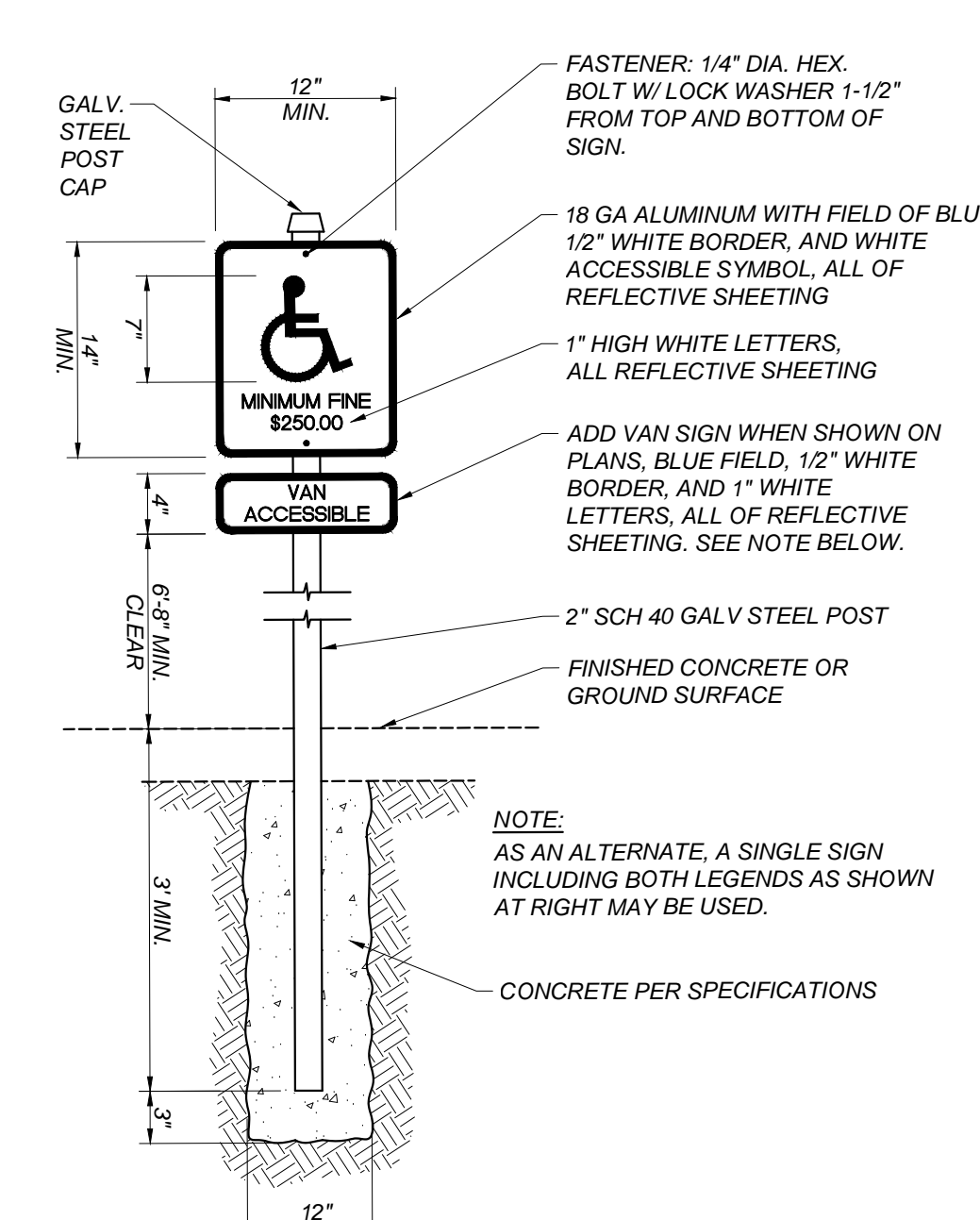
- GENERAL SITE NOTES:**
- ALL ON-SITE CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/X101]
 - INSTALL DOWELED CONNECTION AT ON-SITE JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [D/X101]
 - NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
 - ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
 - ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
 - 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
 - ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.
 - OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY

ACCESSIBLE PARKING STALL SIGN PER DETAIL [B/C301]. PROVIDE VAN STALL SIGNAGE WHERE NOTED ON SITE PLAN. TYPICAL AT ALL ACCESSIBLE STALLS. SEE NOTE 7

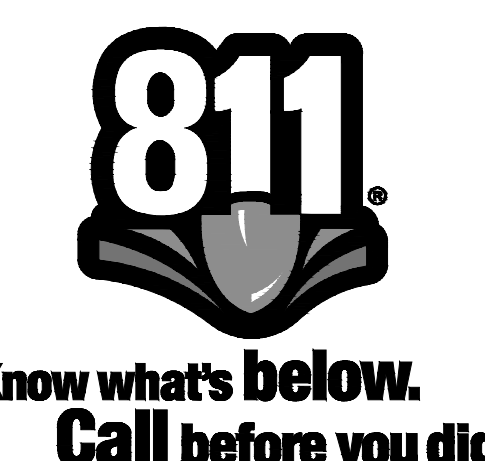


A
C301
EXISTING ACCESSIBLE PARKING STALL
NOT TO SCALE

- NOTES:**
- ACCESSIBLE STALLS SHALL BE A MINIMUM OF 9' WIDE. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
 - ACCESS AISLES SHALL BE A MINIMUM OF 5', AND 8' WHEN ADJACENT TO A VAN ACCESSIBLE STALL. SEE SITE PLAN FOR LOCATION AND ACTUAL DIMENSIONS.
 - ACCESSIBLE STALLS SHALL BE A MINIMUM OF 18' LONG. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
 - CENTERLINE OF INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6" FROM THE CENTERLINE OF THE STALL, AND THE BOTTOM SHALL BE ALIGNED WITH THE BOTTOM OF THE STALL.
 - SLOPES AT ACCESSIBLE STALLS AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.
 - PROVIDE BLUE HATCHED LINES WHEN ACCESS AISLE IS STRIPED ON CONCRETE TO COMPLY WITH CBC 11B-502.3.3
 - REFER TO SITE PLAN TO DETERMINE IF EXISTING ADA COMPLIANT PARKING SIGNAGE EXISTS. IF IT DOES, DO NOT INSTALL NEW SIGNAGE



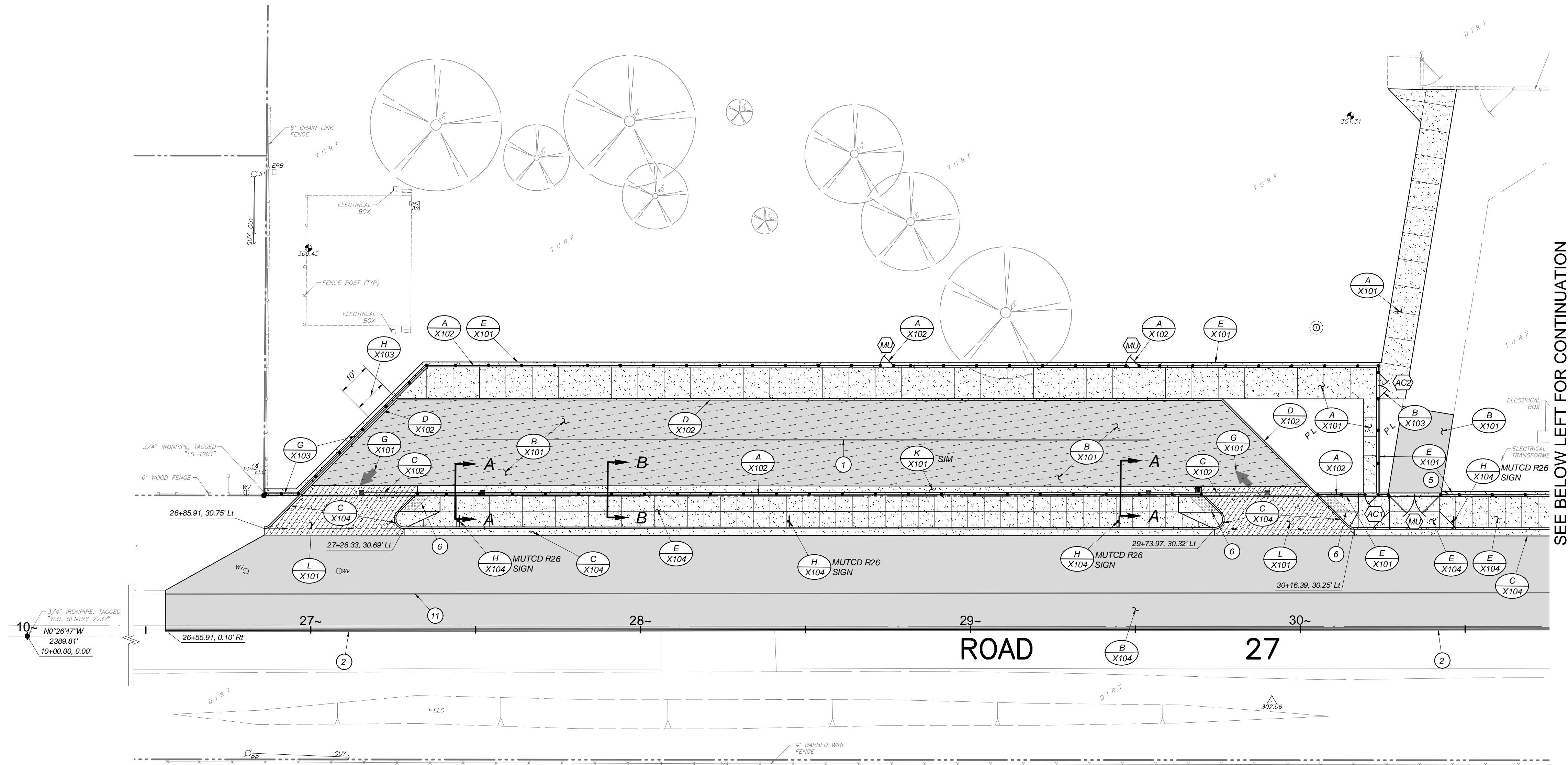
B
C301
ACCESSIBLE PARKING STALL SIGN
NOT TO SCALE



Blair, Church & Flynn
CONSULTING ENGINEERS
03-06-23
Date Signed:

CONSULTANT	REF. & REV.	MADERA UNIFIED SCHOOL DISTRICT
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS SITE PLAN
		CONSTRUCTION DOCUMENTS
		DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED
		C301

FOR DSA USE ONLY



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS PER DETAIL [H/X101]
- LIMITS OF ASPHALT PLUG IMPROVEMENTS PER DETAIL [C/X101]
- LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/X101]
- LIMITS OF HEAVY DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/X101]
- DETECTABLE WARNINGS PER DETAIL [U/X101]
- LIMITS OF SEAL COAT, APPLY SEAL COAT PER PROJECT SPECIFICATIONS
- LIMITS OF PAINTED CURB
- PLANTER
- PAINT 4" WIDE WHITE LINE
- PAINT YELLOW STRIPING PER CALTRANS STANDARD PLAN A20A DETAIL 21
- REINSTALL EXISTING FIRE HYDRANT PER DETAILS [F/X104] AND [G/X104]
- PAINT TOP AND FACE OF CURB WHITE
- MOUNT FIRE DEPARTMENT KNOX BOX TO FENCE PER COUNTY OF MADERA STANDARDS
- CONCRETE CURB RAMP PER DETAIL [D/X104]
- PAINT 4" WIDE BLUE BORDER WITH 4" WIDE WHITE DIAGONAL LINES AT 3' ON CENTER
- STANDARD ACCESSIBLE PARKING STALL. SEE [A/C301] FOR ALL ACCESS REQUIREMENTS
- ACCESSIBLE PARKING SIGNAGE PER DETAIL [B/C301], MOUNT TO FENCE PER DETAIL [D/X103]
- PAINT TOP AND FACE OF CURB BLUE
- PAINT WHITE EDGETRIP STRIPING PER CALTRANS STANDARD PLAN A20B DETAIL 27B

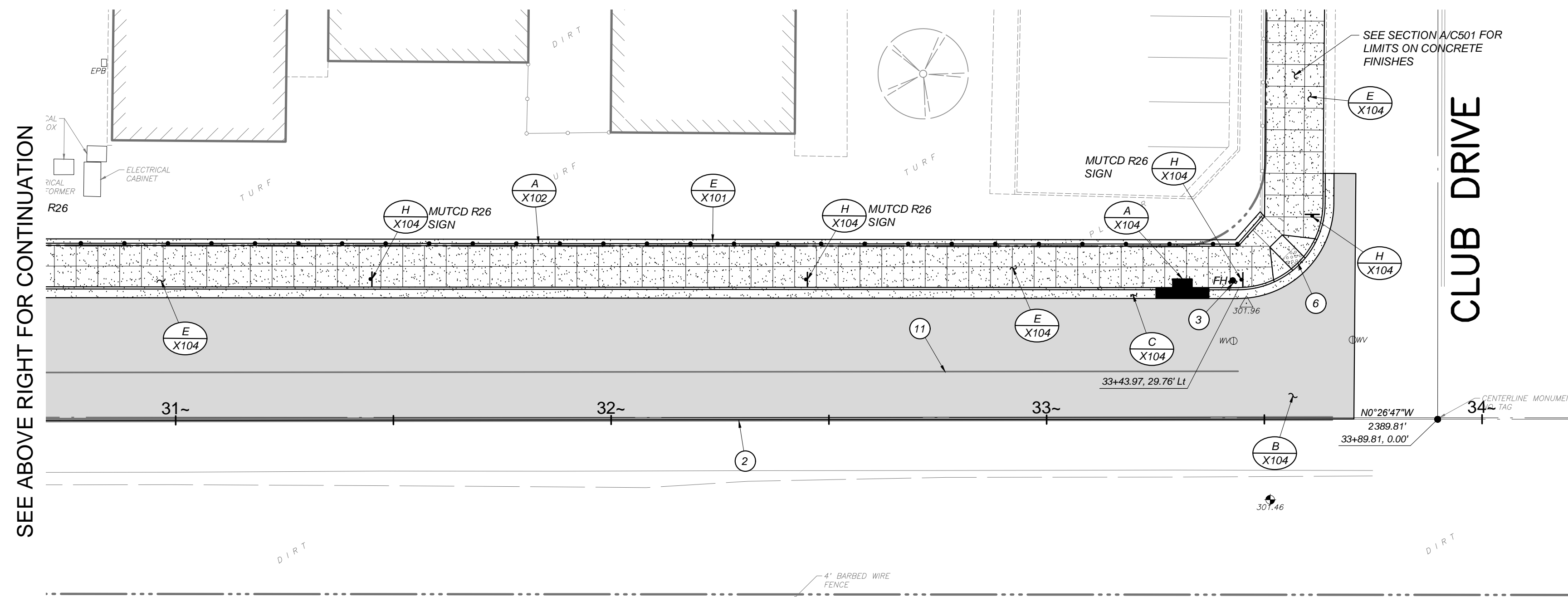
GATE HARDWARE LEGEND:

- PEDESTRIAN ACCESSIBLE EGRESS GATE, KEYED 'NIGHT' TYPE LATCH AND PANIC HARDWARE PER [A/X102] AND [B/X102]
- PEDESTRIAN ACCESSIBLE DOUBLE SWING GATE, KEYED 'NIGHT' TYPE LATCH AND PANIC HARDWARE PER [B/X103] AND [C/X103]
- MAINTENANCE USE GATE - LOCKABLE FORK LATCH

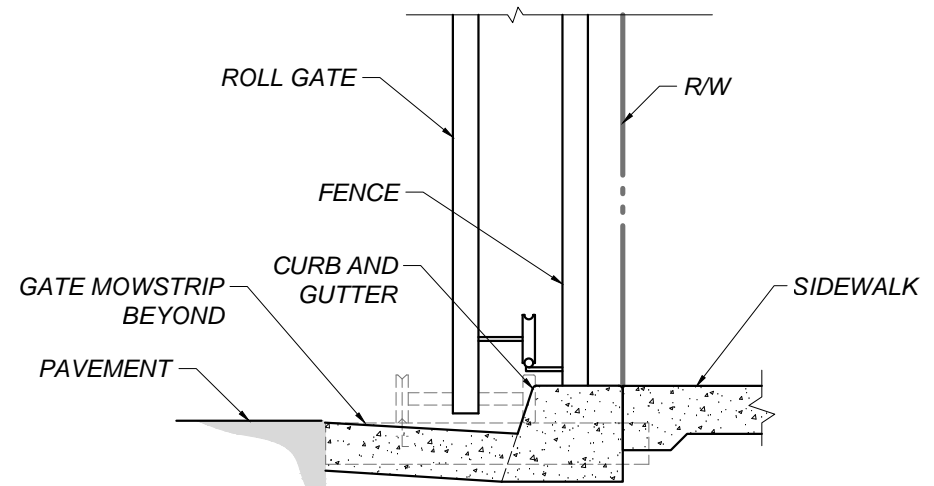
GENERAL SITE NOTES:

- ALL ON-SITE CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/X101]
- INSTALL DOWELED CONNECTION AT ON-SITE JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [D/X101]
- NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
- ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
- 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
- ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.
- OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY

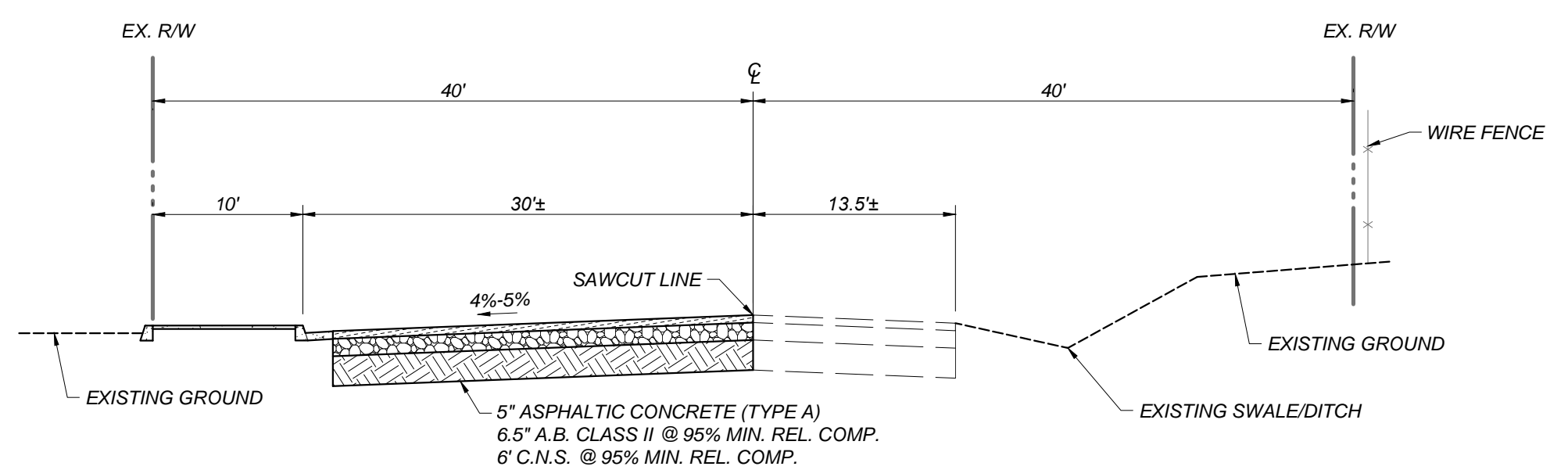
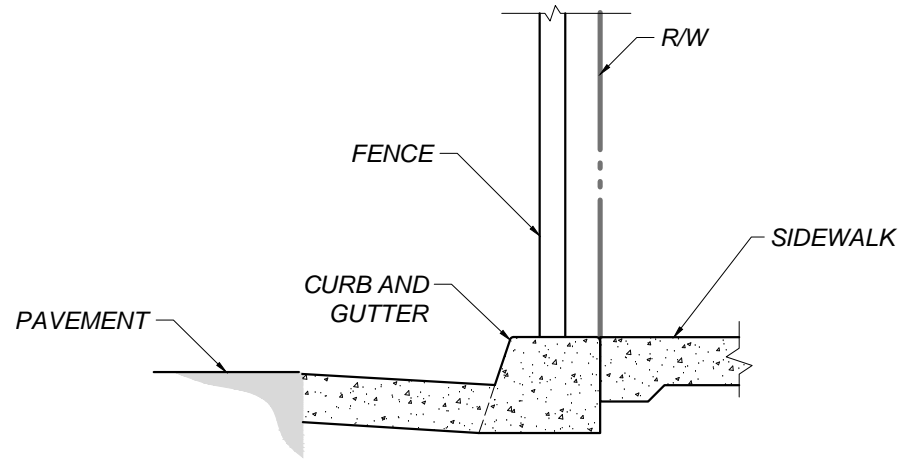
SEE SHEET C301 FOR CONTINUATION



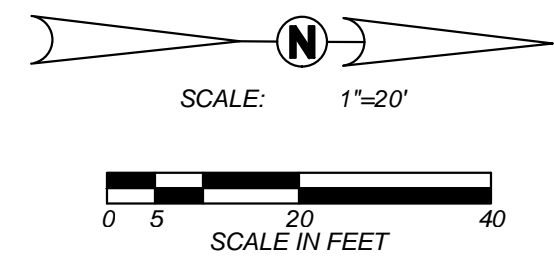
SECTION A-A



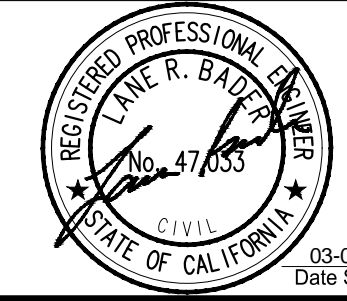
SECTION B-B



ROAD 27
NOT TO SCALE
26+55.91 TO 33+70.56
T.I. = 8
R = 45



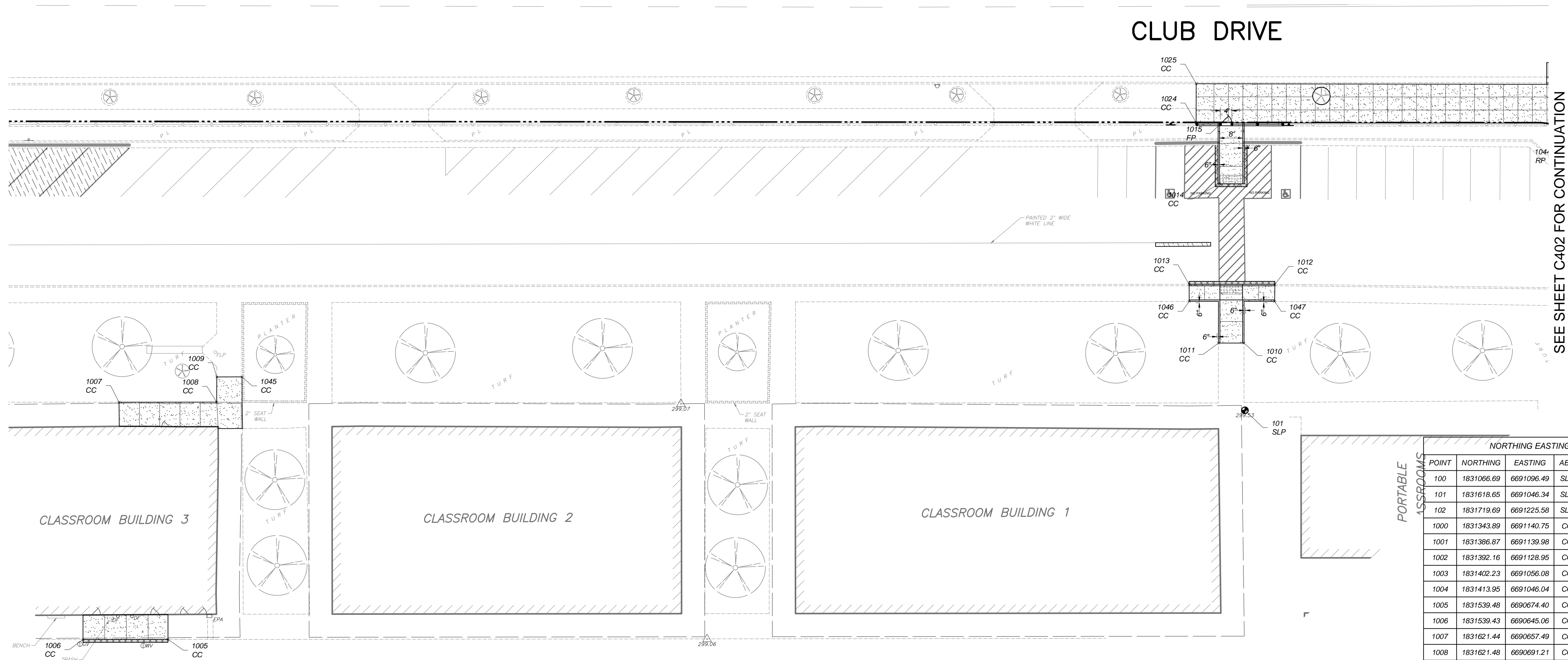
Blair, Church & Flynn
CONSULTING ENGINEERS



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

MADERA UNIFIED SCHOOL DISTRICT		
BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS		CONSTRUCTION DOCUMENTS
SITE PLAN		C302
DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED		

FOR DSA USE ONLY



HORIZONTAL CONTROL LEGEND:

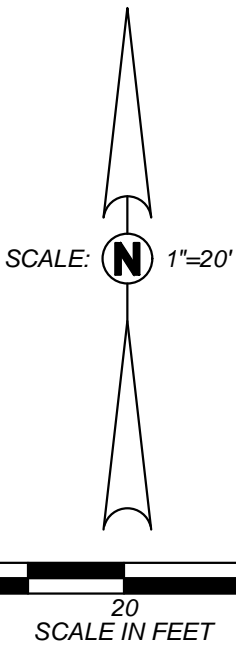
- 100 SLP SITE LAYOUT POINT
1000 LCP LAYOUT COORDINATE POINT

GENERAL HORIZONTAL CONTROL NOTES:

1. SITE LAYOUT POINT 100 IS A CHISELED 'X' ON THE SOUTH EDGE OF THE CONCRETE PAD AT THE SOUTHEAST CORNER OF THE PLAYFIELD.
2. SITE LAYOUT POINT 101 IS A CHISELED 'X' IN THE SIDEWALK APPROXIMATELY 11' NORTHEAST OF THE NORTHEAST CORNER OF CLASSROOM BUILDING 1.
3. SITE LAYOUT POINT 102 IS A SPIKE IN THE EAST SHOULDER OF ROAD 27 APPROXIMATELY 45' EAST OF THE END OF THE CURB RETURN AT THE SOUTHWEST CORNER OF ROAD 27 AND CLUB DRIVE.
4. DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.

NORTHING EASTING TABLE				
POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1831066.69	6691096.49	SLP	SLP
101	1831618.65	6691046.34	SLP	SLP
102	1831719.69	6691225.58	SLP	SLP
1000	1831343.89	6691140.75	CC	CORNER CONCRETE
1001	1831386.87	6691139.98	CC	CORNER CONCRETE
1002	1831392.16	6691128.95	CC	CORNER CONCRETE
1003	1831402.23	6691056.08	CC	CORNER CONCRETE
1004	1831413.95	6691046.04	CC	CORNER CONCRETE
1005	1831539.48	6690674.40	CC	CORNER CONCRETE
1006	1831539.43	6690645.06	CC	CORNER CONCRETE
1007	1831621.44	6690657.49	CC	CORNER CONCRETE
1008	1831621.48	6690691.21	CC	CORNER CONCRETE
1009	1831630.18	6690691.24	CC	CORNER CONCRETE
1010	1831641.89	6691046.03	CC	CORNER CONCRETE
1011	1831641.89	6691037.20	CC	CORNER CONCRETE
1012	1831662.14	6691056.68	CC	CORNER CONCRETE
1013	1831662.19	6691027.07	CC	CORNER CONCRETE
1014	1831696.95	6691037.59	CC	CORNER CONCRETE
1015	1831717.57	6691037.84	FP	FENCE POST
1016	1831102.92	6691131.77	FP	FENCE POST
1017	1831240.31	6691130.90	FP	FENCE POST
1018	1831064.16	6691171.01	FP	FENCE POST
1019	1831100.24	6691170.78	FP	FENCE POST
1020	1831337.94	6691169.29	FP	FENCE POST

POINT	NORTHING	EASTING	ABV	DESCRIPTION
1021	1831373.28	6691169.07	FP	FENCE POST
1022	1831391.31	6691129.95	FP	FENCE POST
1023	1831093.90	6691142.32	CC	CORNER CONCRETE
1024	1831718.09	6691029.49	CC	CORNER CONCRETE
1025	1831731.52	6691029.51	CC	CORNER CONCRETE
1026	1831371.57	6691168.08	CC	CORNER CONCRETE
1027	1831094.17	6691176.20	CC	CORNER CONCRETE
1028	1831096.33	6691181.31	BC	CORNER CONCRETE
1029	1831341.96	6691179.76	BC	CORNER CONCRETE
1030	1831344.04	6691174.63	EC	CORNER CONCRETE
1031	1831711.95	6691177.44	BC	CORNER CONCRETE
1032	1831731.83	6691157.45	EC	CORNER CONCRETE
1033	1831066.57	6691170.00	CC	CORNER CONCRETE
1034	1831056.02	6691180.68	BC	CORNER CONCRETE
1035	1831053.90	6691181.58	EC	CORNER CONCRETE
1036	1831382.25	6691178.63	BC	CORNER CONCRETE
1037	1831384.38	6691179.50	EC	CORNER CONCRETE
1038	1831053.88	6691178.58	RP	CORNER CONCRETE
1039	1831096.31	6691178.31	RP	CORNER CONCRETE
1040	1831341.94	6691176.76	RP	CORNER CONCRETE
1041	1831384.36	6691176.50	RP	CORNER CONCRETE
1042	1831399.05	6691139.91	CC	CORNER CONCRETE
1043	1831712.69	6691166.61	CC	CORNER CONCRETE
1044	1831711.83	6691157.44	RP	CORNER CONCRETE



Blair,
Church & Flynn
CONSULTING ENGINEERS

REGISTERED PROFESSIONAL
ENGINEER
No. 47,653
CIVIL
STATE OF CALIFORNIA

CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

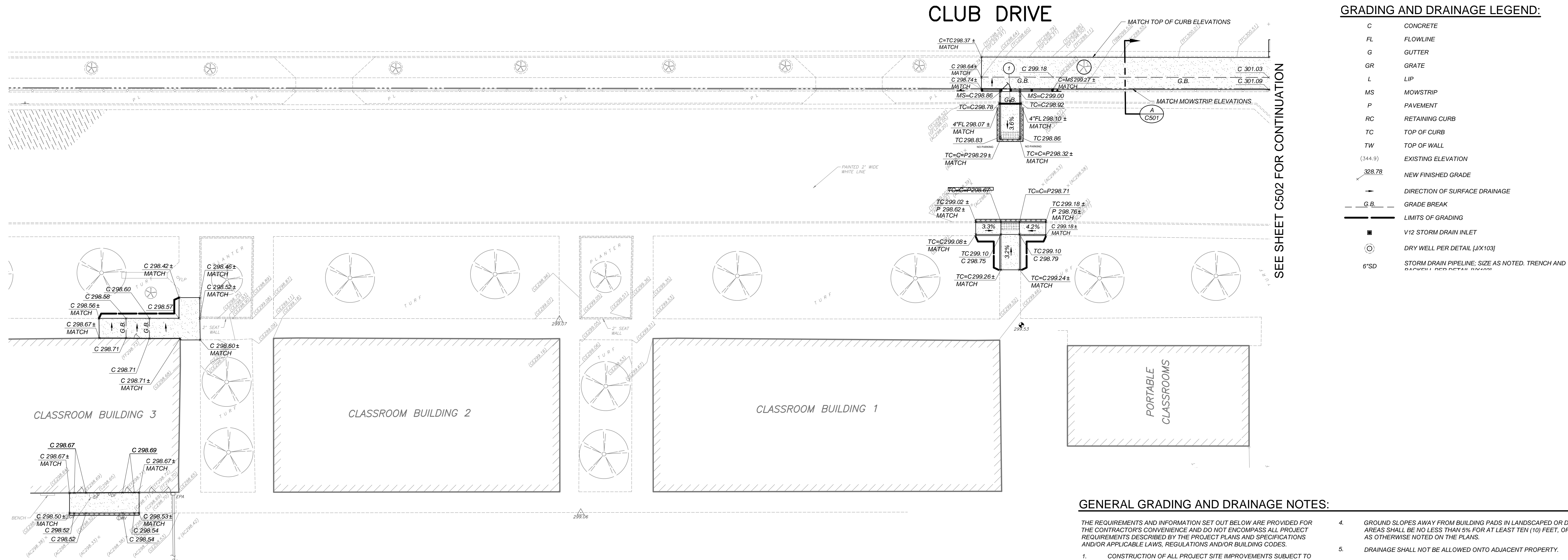
REF. & REV.

03-06-23
Date Signed:

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
HORIZONTAL CONTROL PLAN

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
C401

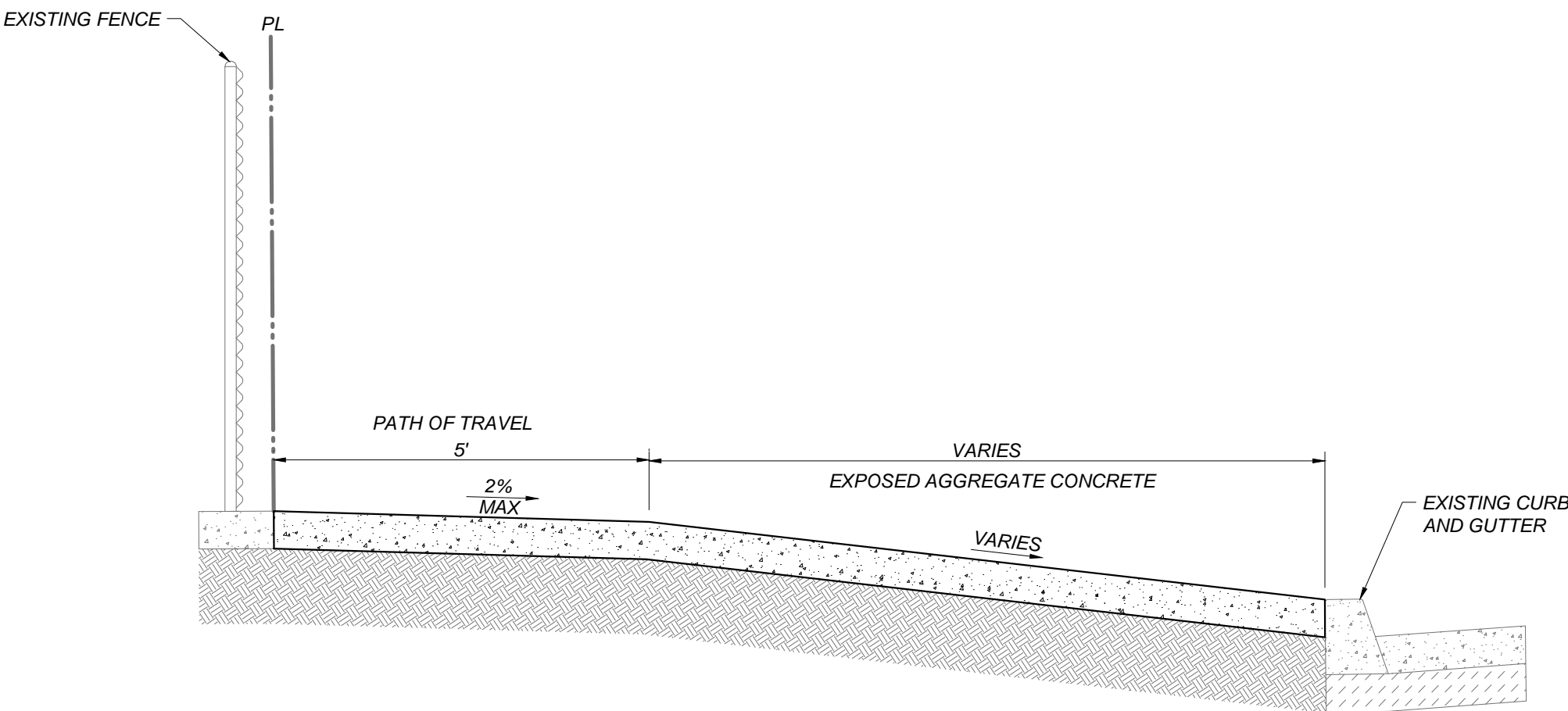


GRADING AND DRAINAGE LEGEND:

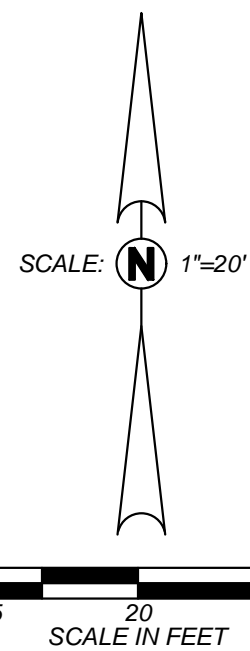
C	CONCRETE
FL	FLOWLINE
G	GUTTER
GR	GRATE
L	LIP
MS	MOWSTRIP
P	PAVEMENT
RC	RETAINING CURB
TC	TOP OF CURB
TW	TOP OF WALL
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
→	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
—	LIMITS OF GRADING
■	V12 STORM DRAIN INLET
⊙	DRY WELL PER DETAIL [JX103]
6"SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [JX103]

GENERAL GRADING AND DRAINAGE NOTES:

- THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.
- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
 - CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
 - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%.
 - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%.
 - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%.
 - ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH.
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%.
 - CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
 - GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
 - DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
 - ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
 - THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
 - THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.
 - AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLE DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
 - ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [E/X103]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.
 - WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.
 - MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS.



A
C501
SECTION AT CONCRETE WALK
NOT TO SCALE



Blair,
Church & Flynn
CONSULTING ENGINEERS



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
461 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
GRADING PLAN

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
C501

FOR DSA USE ONLY

GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FL	FLOWLINE
G	GUTTER
GR	GRATE
L	LIP
MS	MOWSTRIP
P	PAVEMENT
RC	RETAINING CURB
TC	TOP OF CURB
TW	TOP OF WALL
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
→	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
---	LIMITS OF GRADING
■	V12 STORM DRAIN INLET
⊙	DRY WELL PER DETAIL [JX103]
6"SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [IX103]
①	4" DIAMETER SCHD. 40 GALVANIZED STEEL DRAIN TUBE
②	INSTALL FLOGARD CATCH BASIN INSERT FILTER IN V12 INLET. MODEL NUMBER FGP-12F8

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

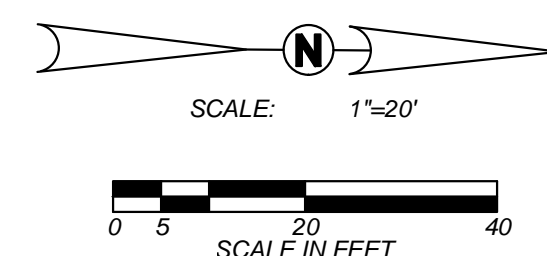
- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
 - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%.
 - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%.
 - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%.
 - ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH.
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
- ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT, IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.
- AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLE DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
- ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [E/X103]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.
- WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.
- MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS.

SEE BELOW LEFT FOR CONTINUATION

SEE SHEET C501 FOR CONTINUATION

CLUB DRIVE

SEE ABOVE RIGHT FOR CONTINUATION



Blair,
Church & Flynn
CONSULTING ENGINEERS



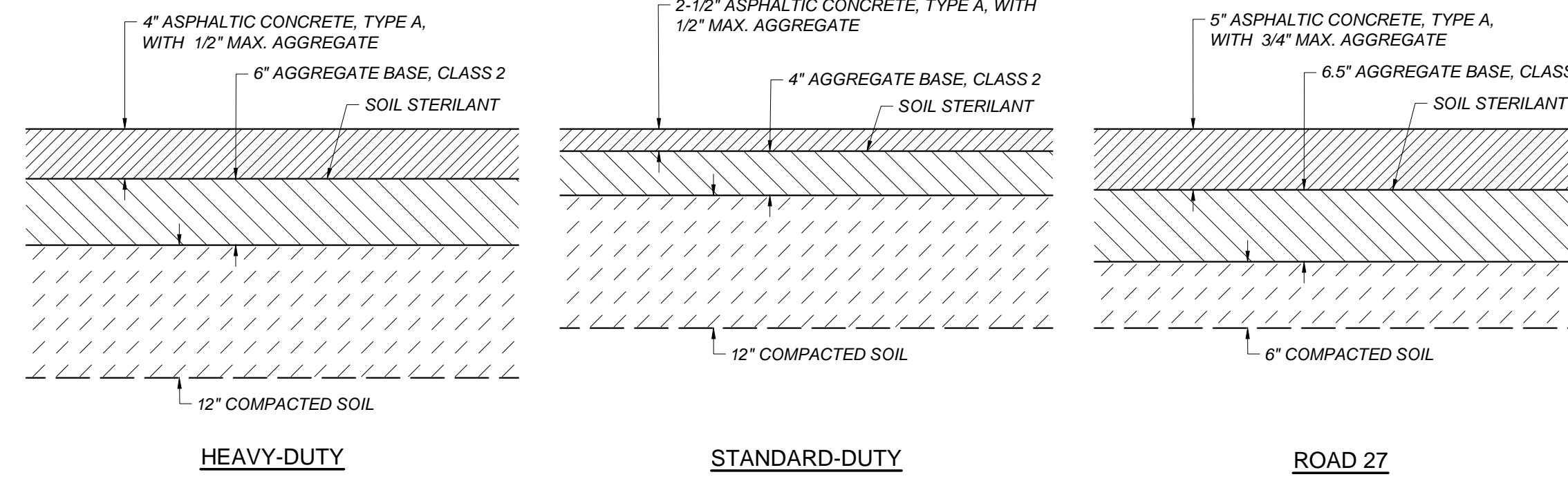
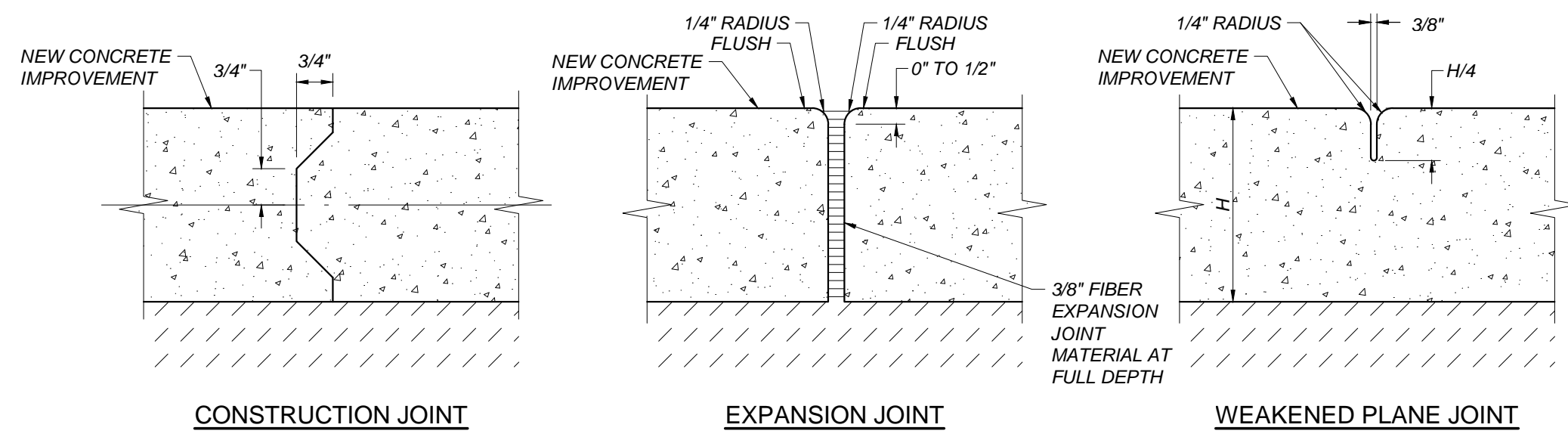
CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

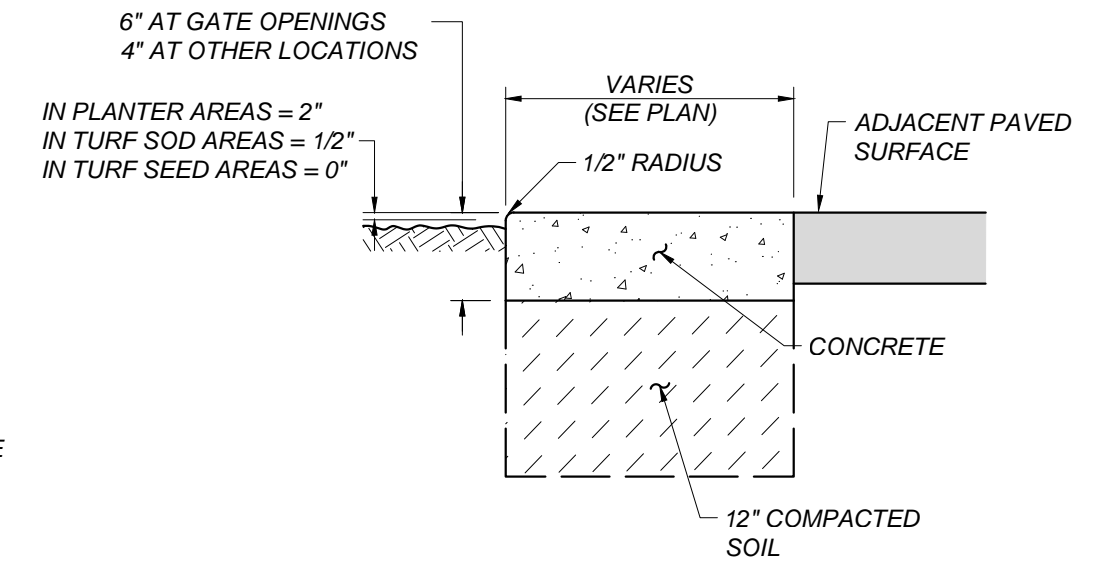
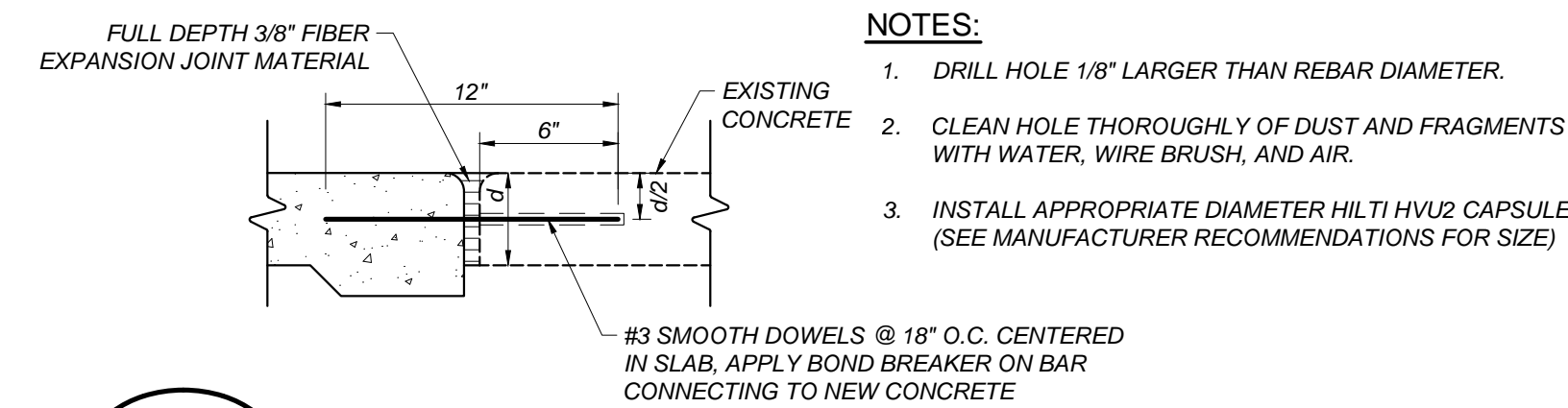
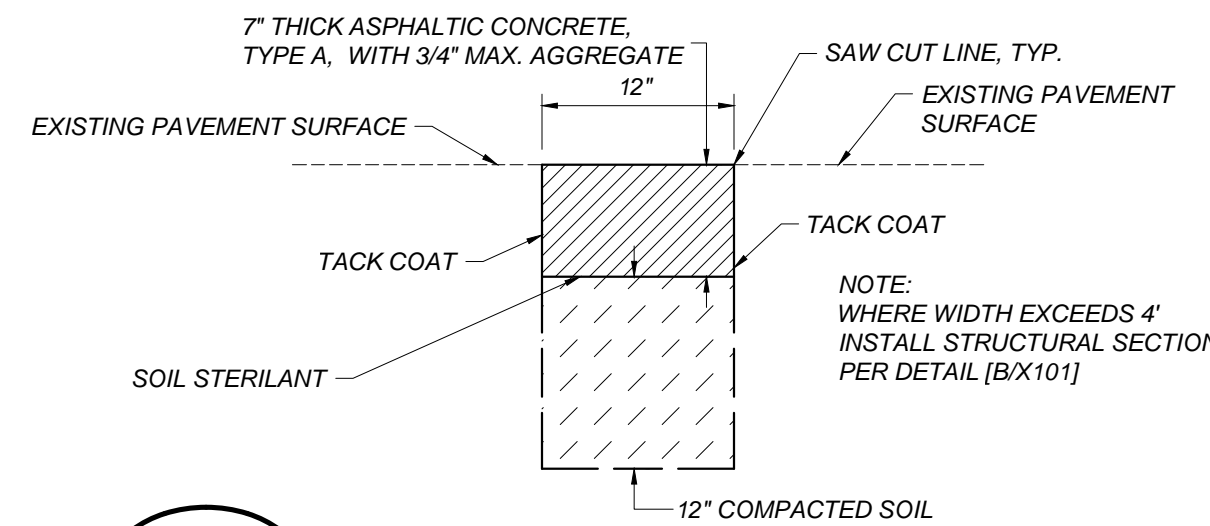
BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
GRADING PLAN

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
C502

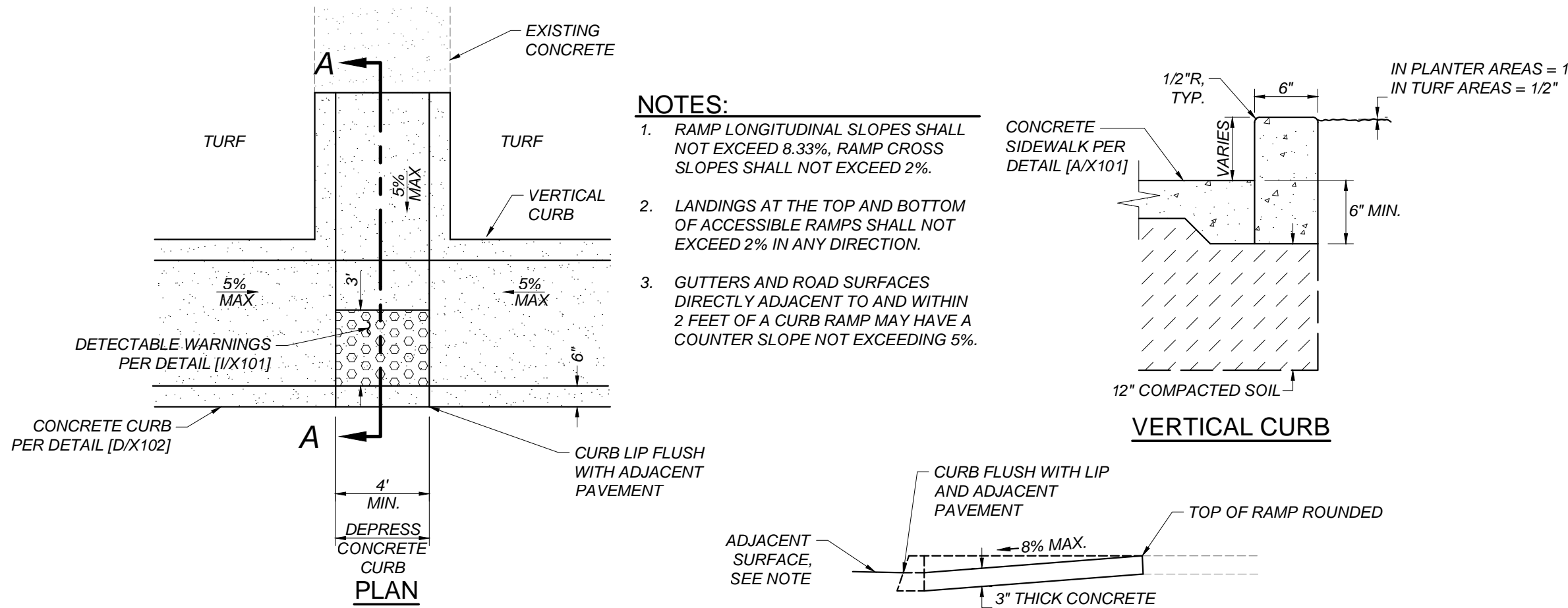


FOR DSA USE ONLY

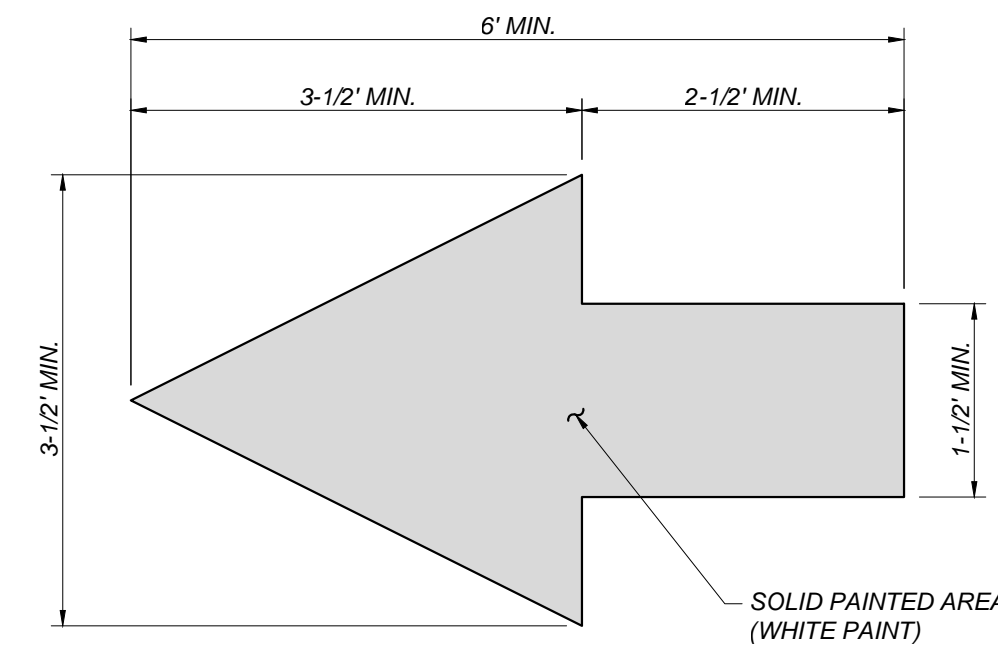
B
X101
NOT TO SCALE
ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTIONS



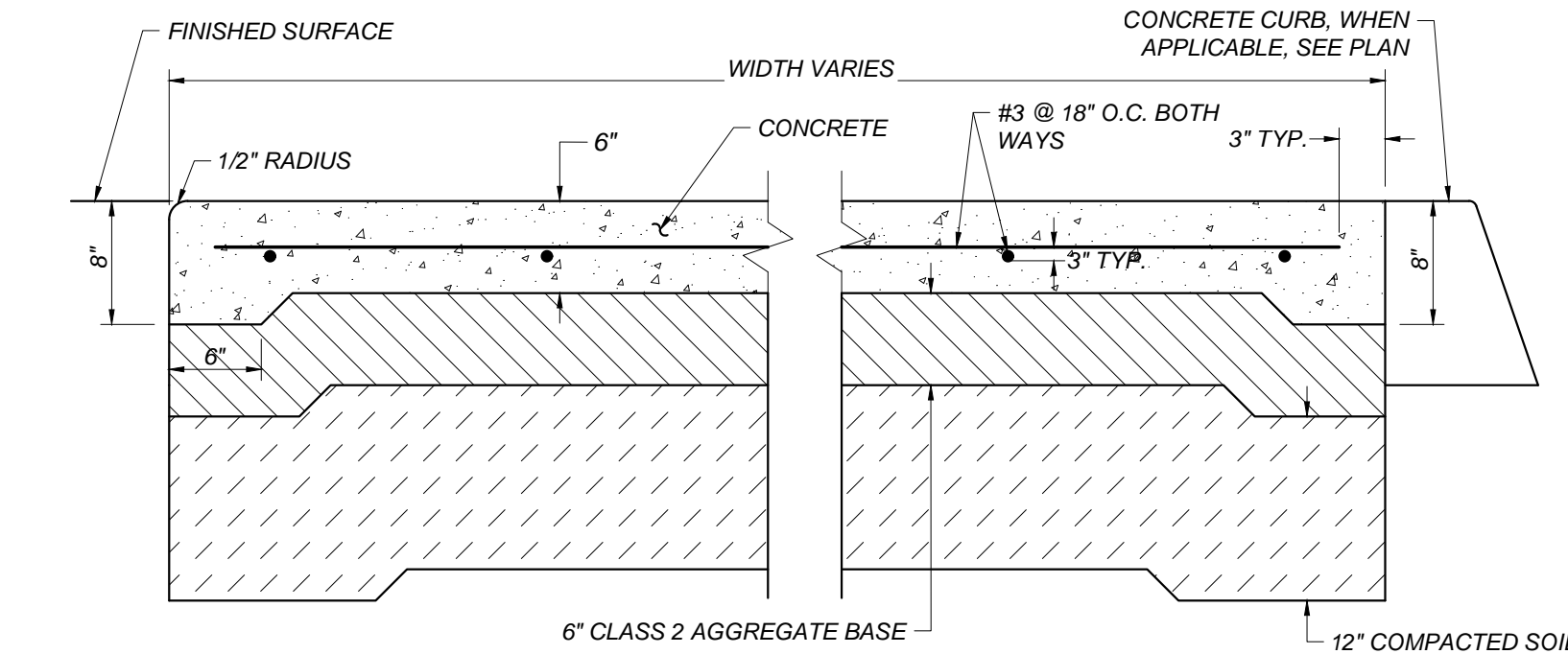
A
X101
NOT TO SCALE
REGULAR DUTY CONCRETE



C
X101
NOT TO SCALE
ASPHALT CONCRETE PLUG



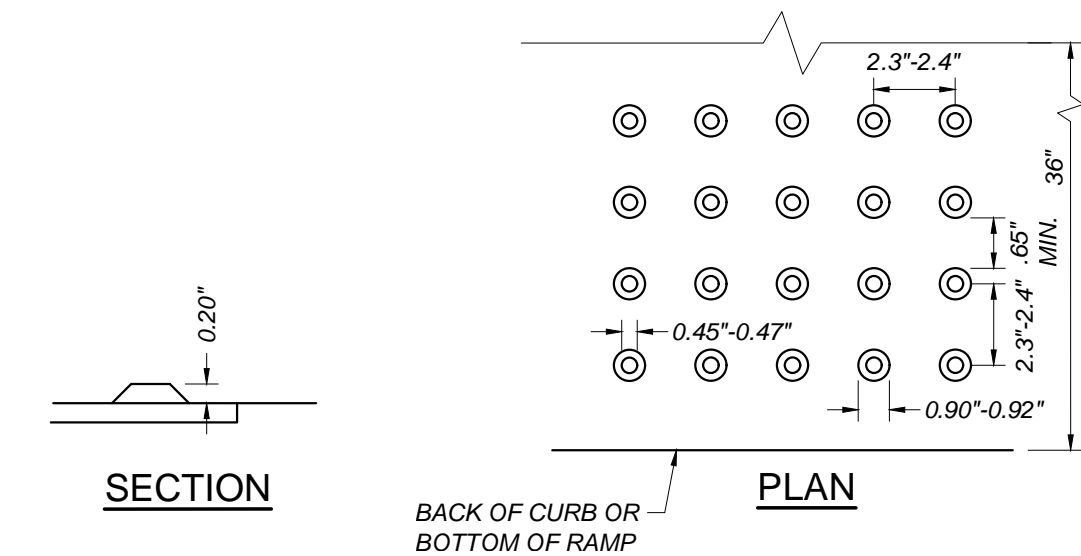
D
X101
NOT TO SCALE
DOWEL BAR



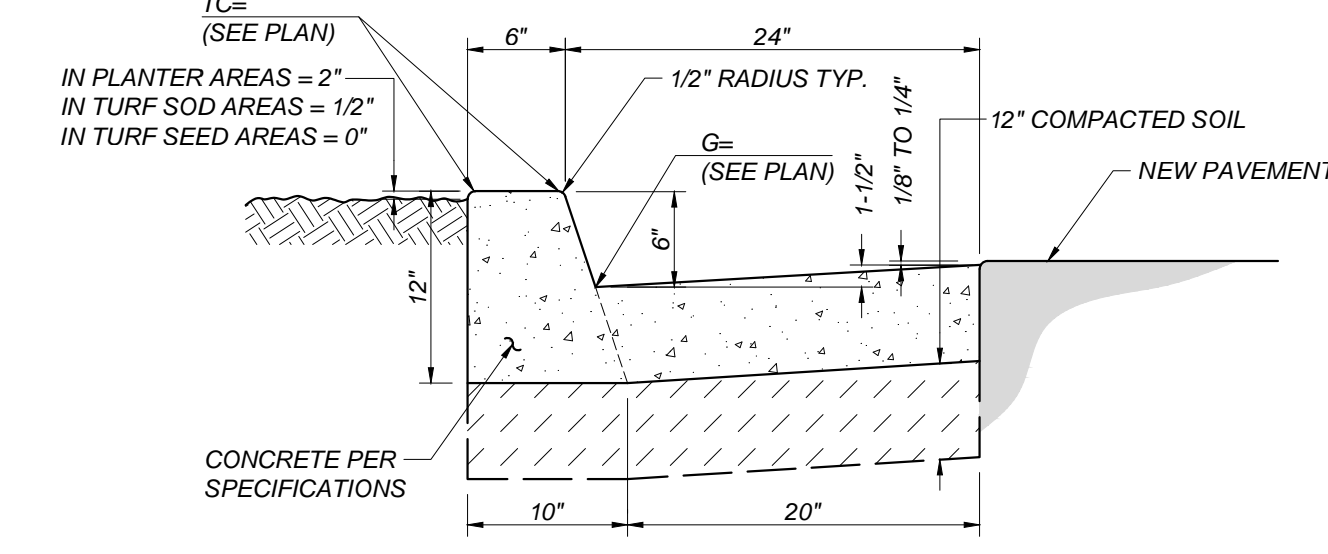
E
X101
NOT TO SCALE
CONCRETE MOWSTRIP

F
X101
NOT TO SCALE
ACCESSIBLE RAMP SECTION

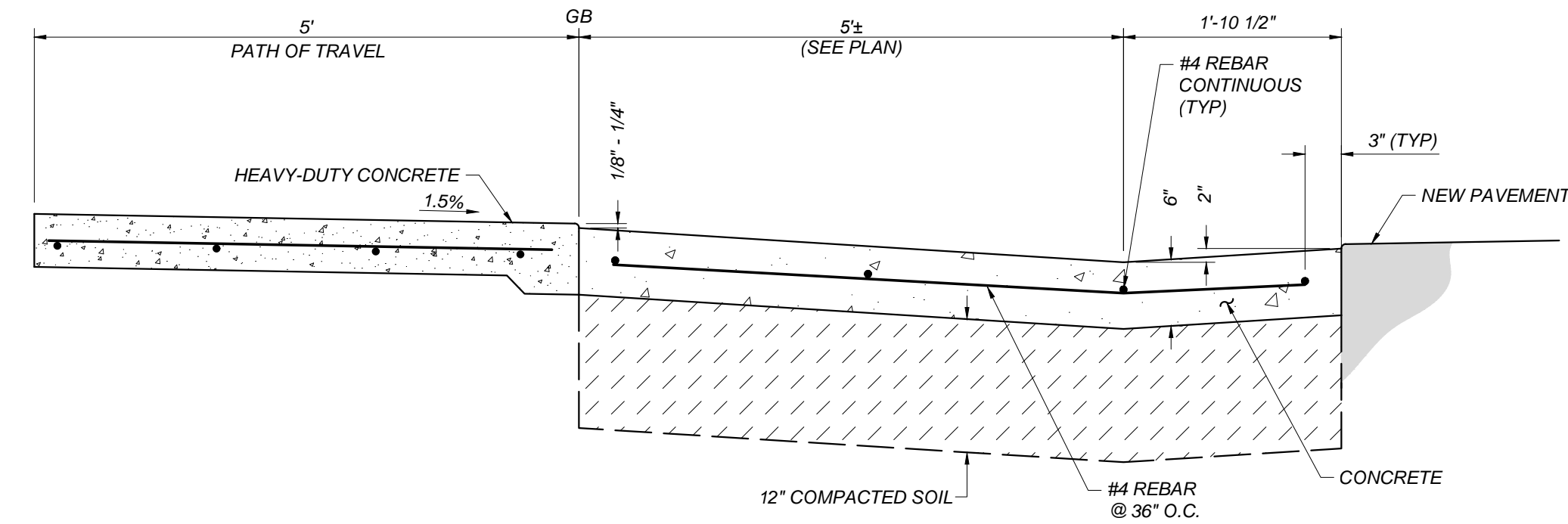
- NOTES:**
1. THE DETECTABLE WARNING SURFACE SHALL BE YELLOW AND APPROXIMATE FS 33538 OF SAE AMSSTD-595A.
 2. WHERE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70% CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM THE ADJACENT SURFACE.
 3. THE DOMES SHALL BE MANUFACTURED BY ARMOR TILE INC. OR APPROVED EQUAL.
 4. ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3 AND 4.



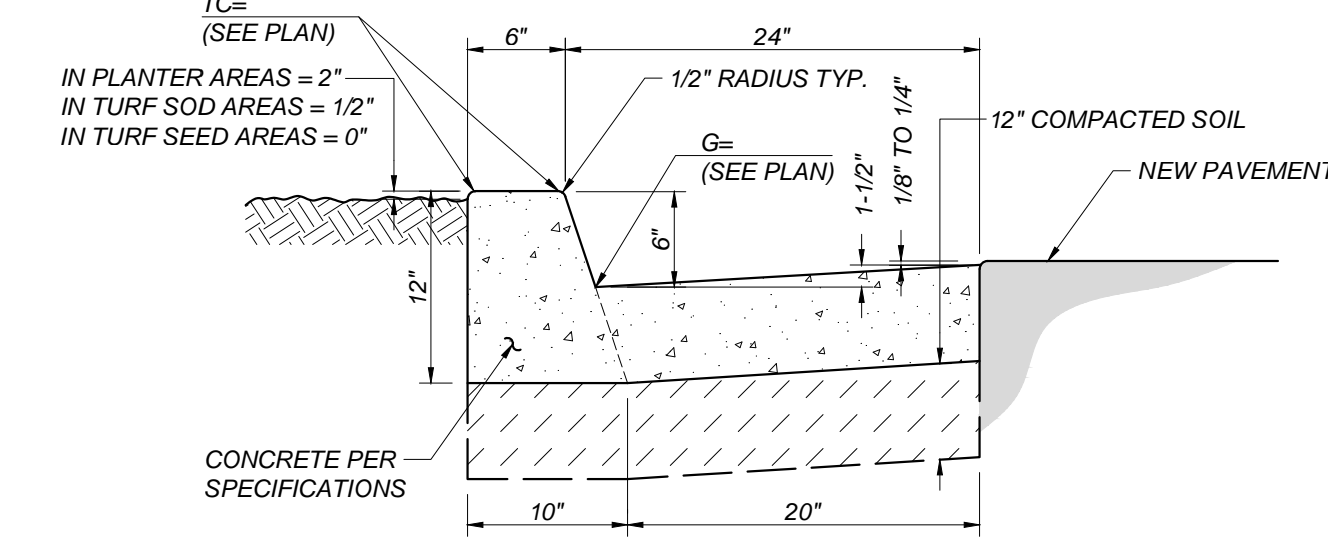
J
X101
NOT TO SCALE
RETAINING CURB WITH CONCRETE WALK



L
X101
NOT TO SCALE
REINFORCED CONCRETE VALLEY GUTTER



K
X101
NOT TO SCALE
CONCRETE CURB AND GUTTER



Blair, Church & Flynn
CONSULTING ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
LANE R. BADER
No. 47,053
CIVIL
STATE OF CALIFORNIA

CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

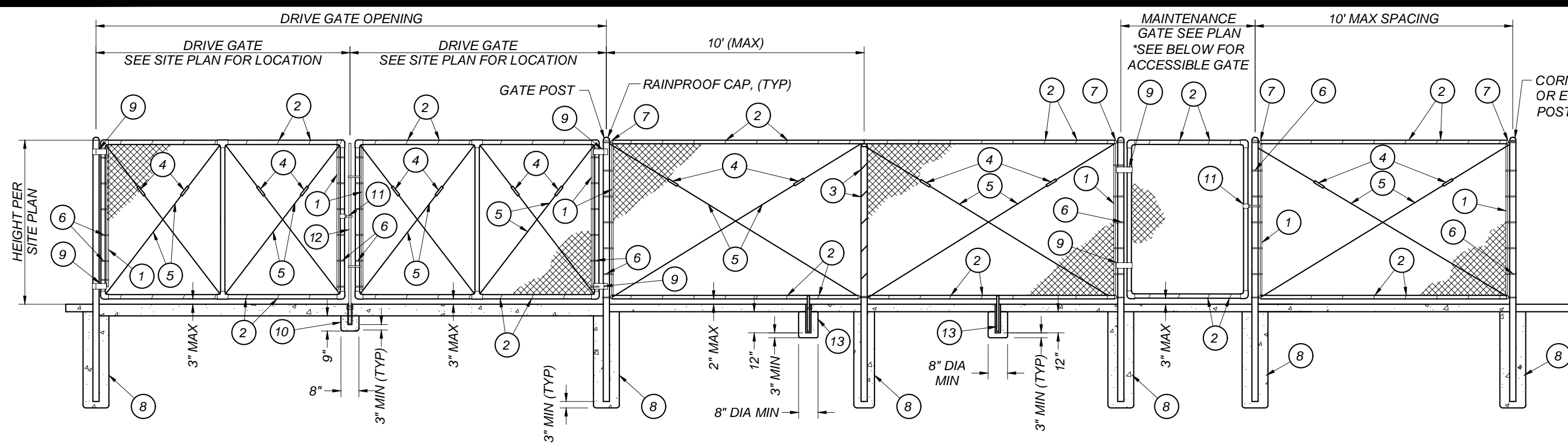
BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS

DETAILS

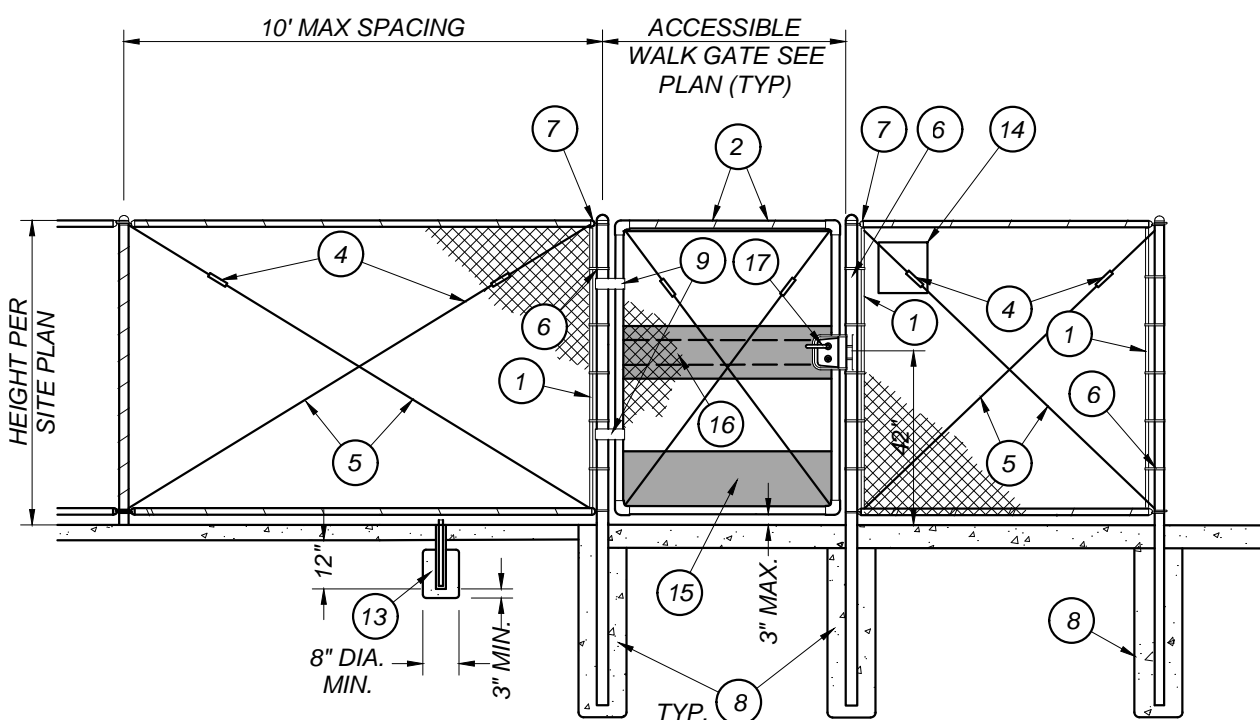
CONSTRUCTION DOCUMENTS

DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED

X101



FENCE AND GATE ELEVATIONS



ACCESSIBLE PEDESTRIAN GATE

CHAIN LINK FENCE SIZING SCHEDULE - OPEN FABRIC

FENCE HEIGHT	END, ANGLE, CORNER POSTS			LINE POSTS			SINGLE LEAF MAN GATE POSTS			DOUBLE GATE POSTS			COMMENT
	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	
6"	2-7/8" O.D.	12"	4'-0"	2-3/8" O.D.	12"	3'-3"	2-7/8" O.D.	12"	4'-0"	6" O.D.	15"	5'-0"	1.66" O.D. TOP AND BOTTOM RAIL, SCHEDULE 40

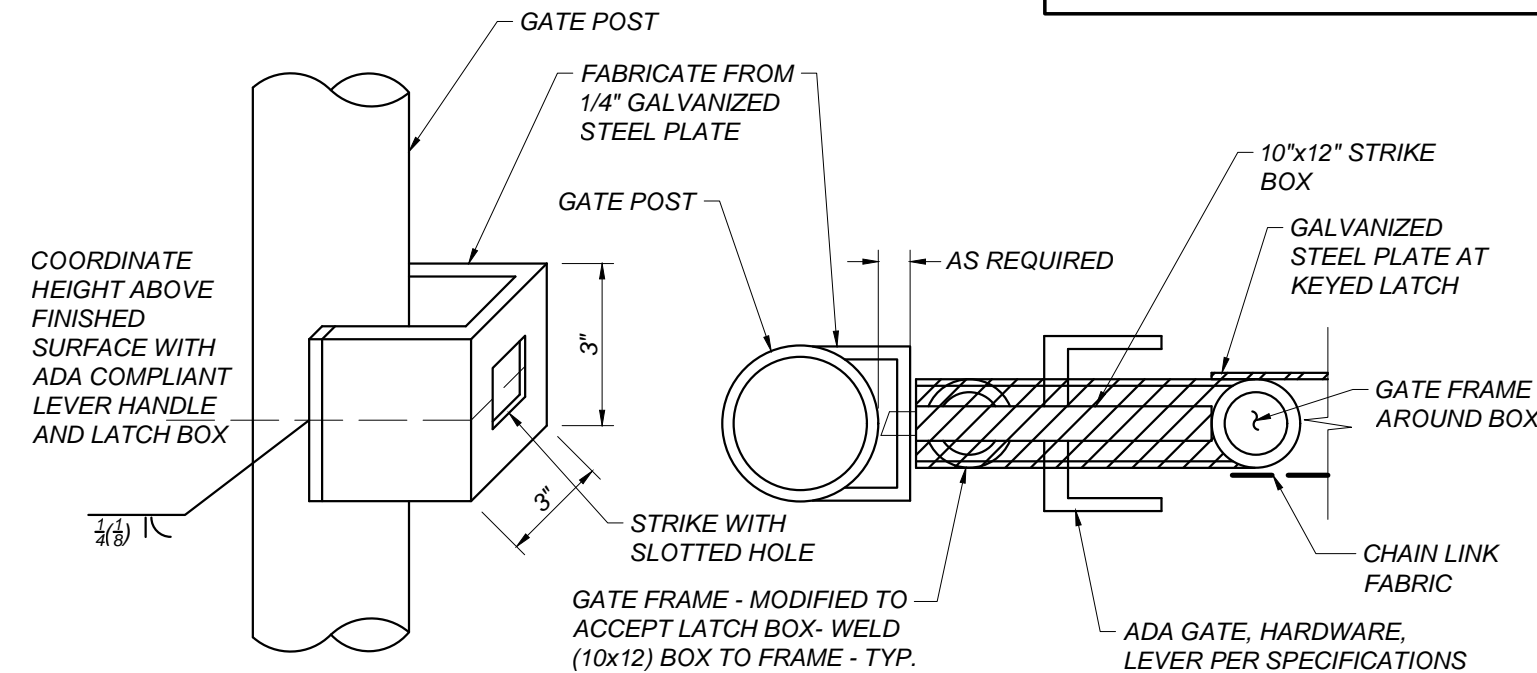
OPEN FABRIC CHAIN LINK FENCE AND GATE LEGEND:

- 1/8" X 3/4" GALVANIZED STEEL STRETCHER BAR.
- 9 GAUGE (0.148" DIA) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING. MINIMUM OF 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL.
- 6 GAUGE (0.192" DIA) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING. MINIMUM 3 POST CLIPS FOR EACH 4' POST.
- GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIAMETER TRUSS ROD.
- 3/8" DIAMETER GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS, END OR CORNER POST PANELS.
- 1/8" THICK GALVANIZED STEEL STRETCHER BAR. TENSION BAND AT 12" MAXIMUM SPACING. MINIMUM OF 4 TENSION BANDS FOR EACH 4' POST SECTION.
- GALVANIZED RAIL ENDS.
- CONCRETE FOOTING, TYPICAL.
- HINGES PER THE SPECIFICATION.
- GALVANIZED STEEL PIPE SLEEVE FOR GATE DROP ROD.
- LOCKABLE FORK LATCH PER SPECIFICATIONS
- CENTER GATE DROP POST AND LATCH
- INSTALL GATE HOLDBACK FOR ALL GATES.
- ACCESSIBLE GATE SIGN PER DETAIL [A/X103]
- 10" HIGH, 1/8" THICK STEEL PLATES WELDED ON THE BOTH SIDE OF THE GATE AT BOTTOM FULL WIDTH OF THE GATE. THE KICK PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE.
- 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON THE NON FABRIC SIDE. THE FULL WIDTH OF THE GATE. THE PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE. SEE DETAIL [B/X102]
- ALL WALK GATES SHALL HAVE ADA/CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. PROVIDE GATE NIGHT LATCH AND HARDWARE PER SPECIFICATIONS AT EXIT GATES.

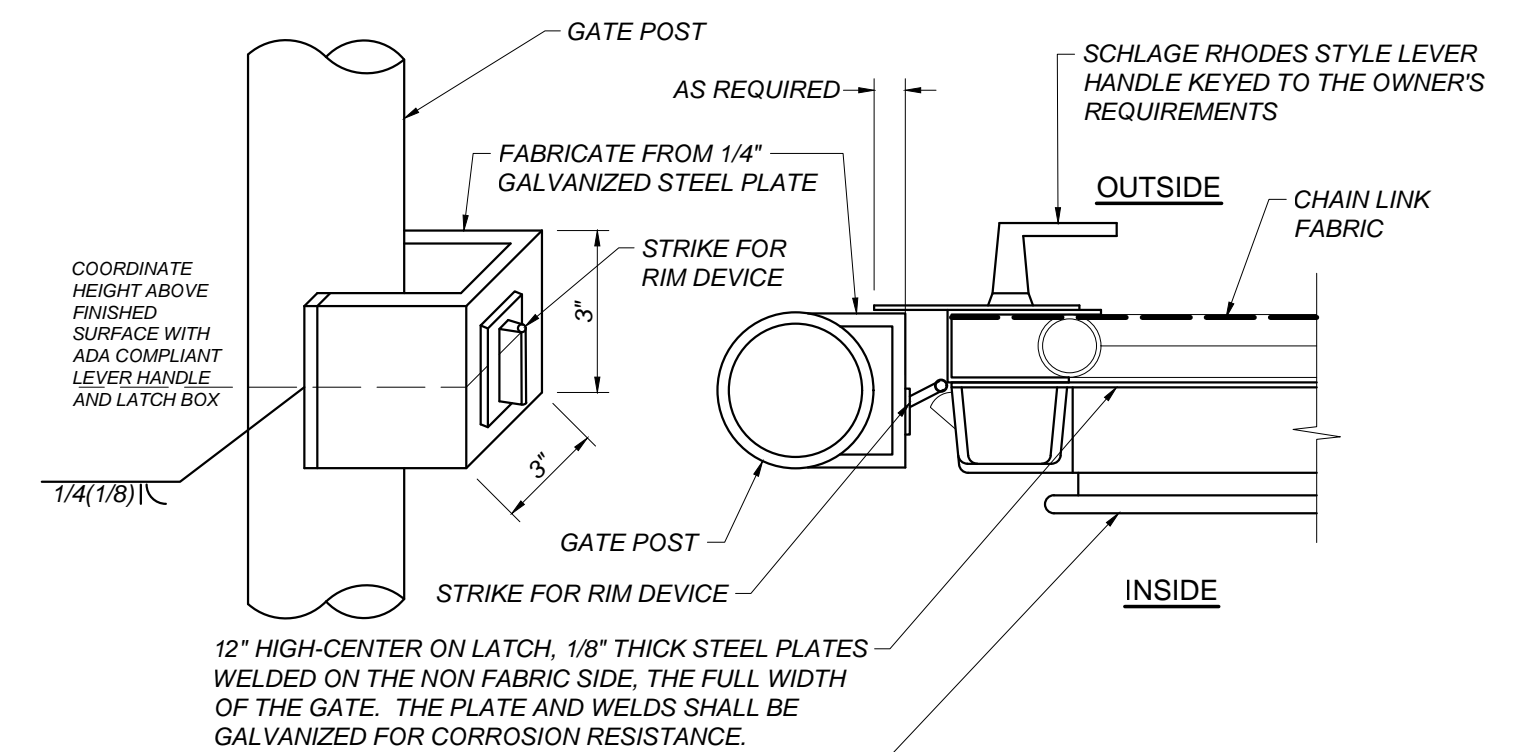
OPEN FABRIC CHAIN LINK FENCE AND GATE NOTES:

- GATE FRAME SHALL BE 2" O.D. GALVANIZED STEEL (2.72 LB/FT).
- FENCE FABRIC SHALL BE 2" X 2" MESH X 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW)
- ALL FENCES ADJACENT TO ATHLETIC FIELDS, COURTS, BALLFIELDS, OR RUNNING TRACKS SHALL HAVE 1.66" O.D. BOTTOM RAILS INSTEAD OF TENSION WIRE
- MATCH OWNER'S LOCKSET GATE HARDWARE AND KEYING SYSTEM FOR ALL KEYED GATES.
- WALK GATE POST SIZE LIMITED TO 6 FOOT WIDTH OR LESS. SEE DRIVE GATE SIZING FOR LARGER LEAF WIDTHS.
- DOUBLE TRUSS RODS ARE REQUIRED IN PANELS ADJACENT TO GATE POSTS AND AT ALL FENCE CORNERS AND END PANELS.
- ALL SUPPORT POINTS SHALL BE FASTENED TOGETHER AND REINFORCED WITH MALLEABLE IRON FITTINGS DESIGNED FOR THAT PURPOSE. WELDED CONNECTIONS WILL NOT BE ALLOWED.
- TACK WELD ALL GATE HINGES AND LATCH COLLARS TO POST.
- ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED (GALVANIZED) PER CONTRACT SPECIFICATIONS.
- CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
- ALL ACCESSIBLE GATES SHALL HAVE:
 - HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY CBC SECTION 11B-404.2.7 OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE MAXIMUM FORCE TO ACTIVATE OPERABLE PARTS SHALL BE 5LBS PER CBC 11B-309.4.
 - SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE BOTH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
- CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC 11B-404.2.8.1.
- GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO THE CLOSED POSITION 1.5 SECONDS MINIMUM PER CBC 11B-404.2.8.2.
- ACCESSIBLE GATE SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES AND A MAXIMUM CLEAR OPENING OF 48 INCHES PER CBC 11B-404.2.3
- THE MAXIMUM FORCE TO PUSH OR PULL OPEN A GATE SHALL BE 5 LBS. (11B-404.2.9)
- ALL GATE FRAMES SHALL HAVE WELDED CONNECTIONS.

FOR DSA USE ONLY



GATE LATCH PASSAGE NON-KEYED



EXIT GATE WITH NIGHT LATCH

A CHAIN LINK FENCE AND GATES

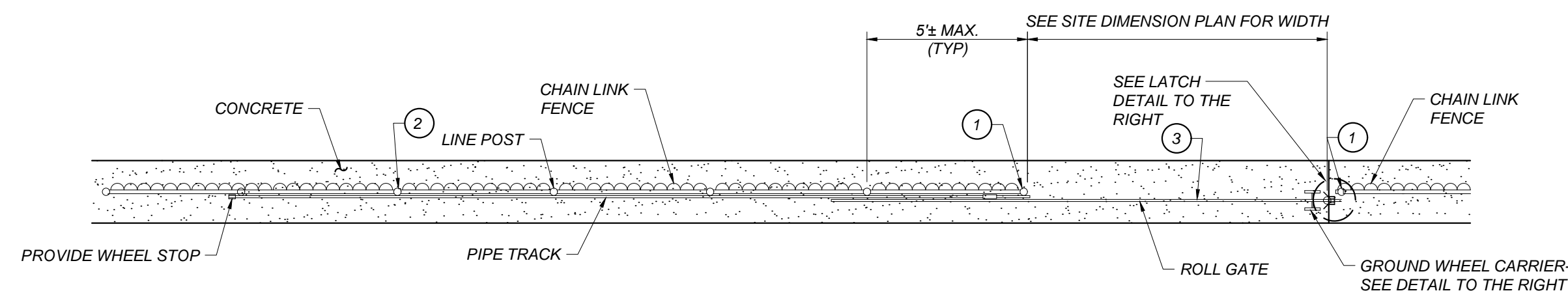
X102 NOT TO SCALE

FENCE AND ROLL GATE ITEMS:

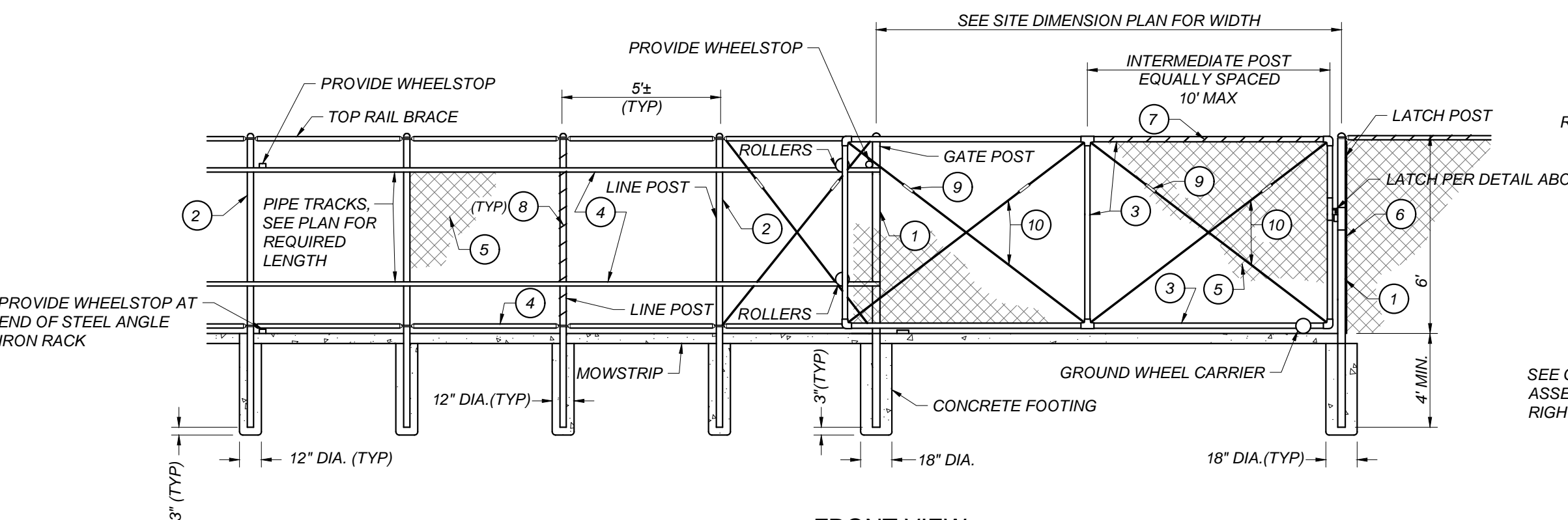
- 2-7/8" O.D. GALVANIZED STEEL POST (5.79 lbs/ft)
- 2-3/8" O.D. GALVANIZED STEEL LINE POST (3.65 lbs/ft)
- 2" O.D. GALVANIZED STEEL GATE FRAME (2.72 lbs/ft)
- 1-5/8" O.D. GALVANIZED STEEL HORIZONTAL RAIL (2.27 lbs/ft)
- 2" X 2" MESH X 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. GALVANIZE BEFORE WEAVING, (GBW)
- 1/4" X 3/4" GALVANIZED STEEL STRETCHER BAR
- 9 GAUGE (0.148" DIA.) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING
- 9 GAUGE (0.192" DIA.) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING
- 6" TURNBUCKLE ADJUSTERS FOR 3/8" DIA. TRUSS RODS
- 3/8" DIA. GALVANIZED STEEL ADJUSTABLE TRUSS RODS

NOTES ON FENCING AND GATES:

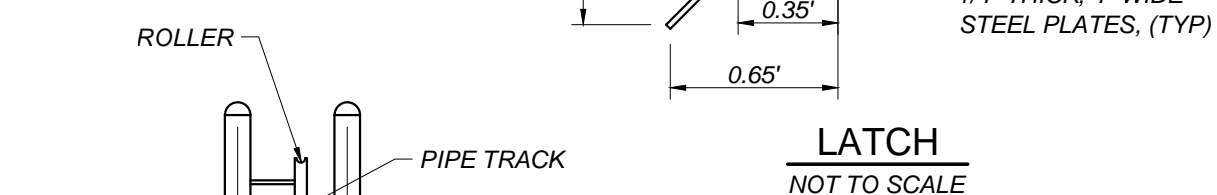
- DOUBLE TRUSS RODS ARE REQUIRED IN PANEL ADJACENT TO OPENING, GATE POSTS, AT ALL FENCE CORNERS AND IN ALL GATE PANELS.
- CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
- MOWSTRIP AT DRIVE GATE OPENING SHALL BE 5-1/2" THICK.
- USE FITTINGS FOR ALL GATE JOINTS AND TRUSS ROD CONNECTIONS. NO WELDING PERMITTED.
- LENGTH OF ROLL GATE SHALL MATCH THE GATE OPENING SHOWN ON THE SITE PLAN



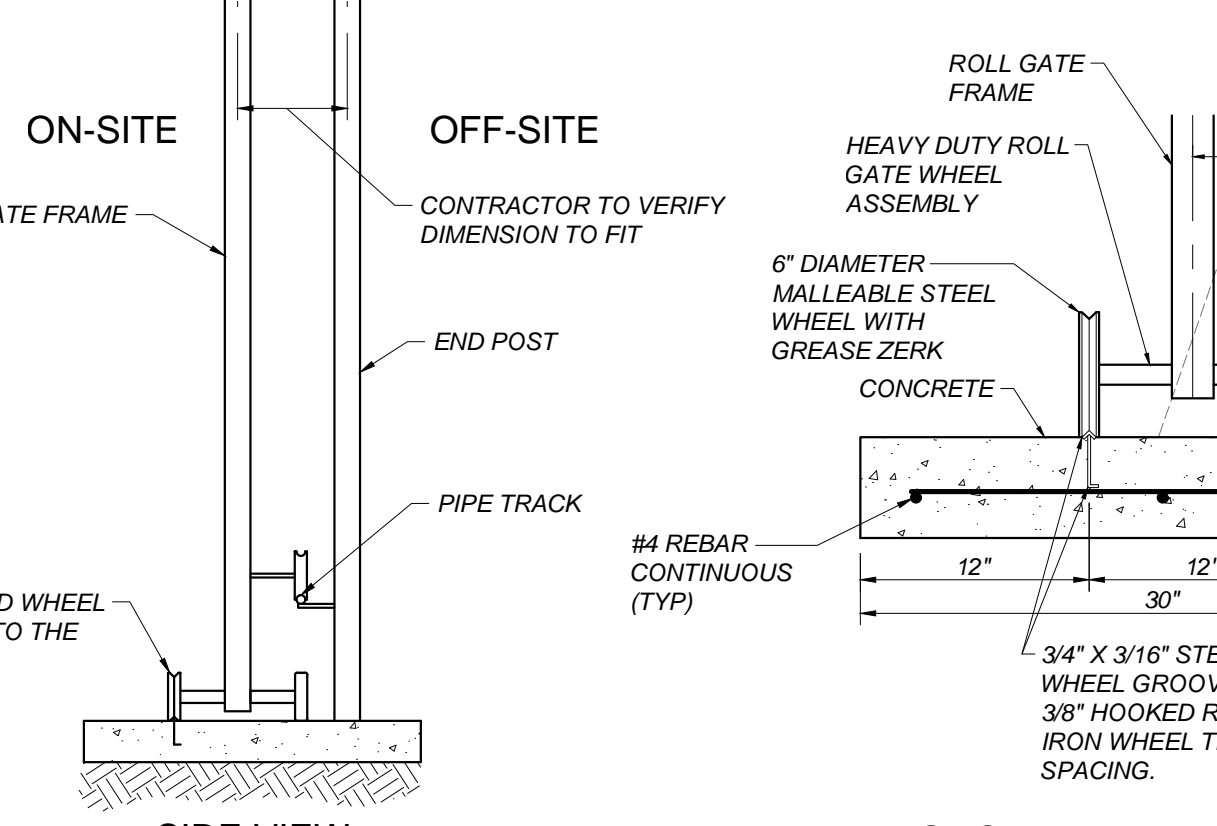
PLAN VIEW



FRONT VIEW

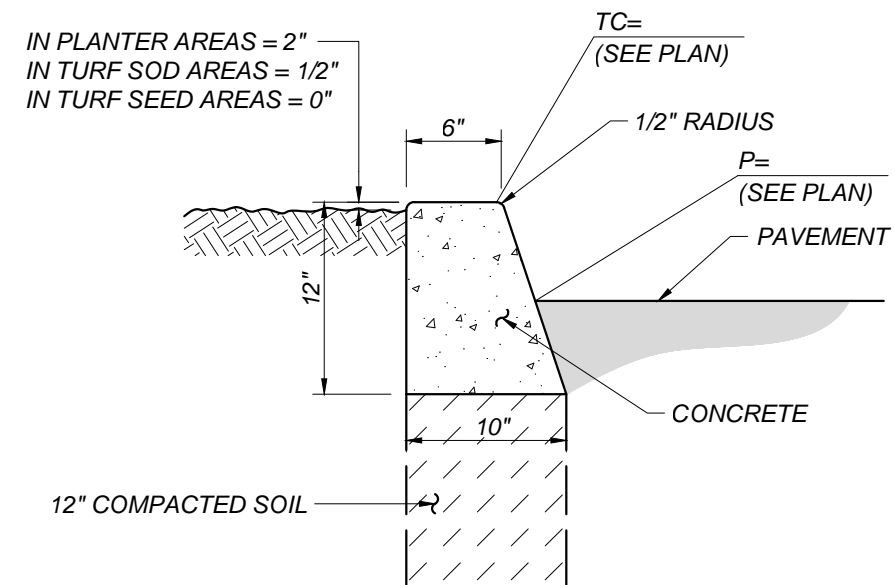


LATCH NOT TO SCALE



SIDE VIEW

GROUND WHEEL ASSEMBLY



D CONCRETE CURB

X102 NOT TO SCALE

C CHAIN LINK ROLL GATE INSTALLATION

X102 NOT TO SCALE

Blair,
Church & Flynn
CONSULTING ENGINEERS



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

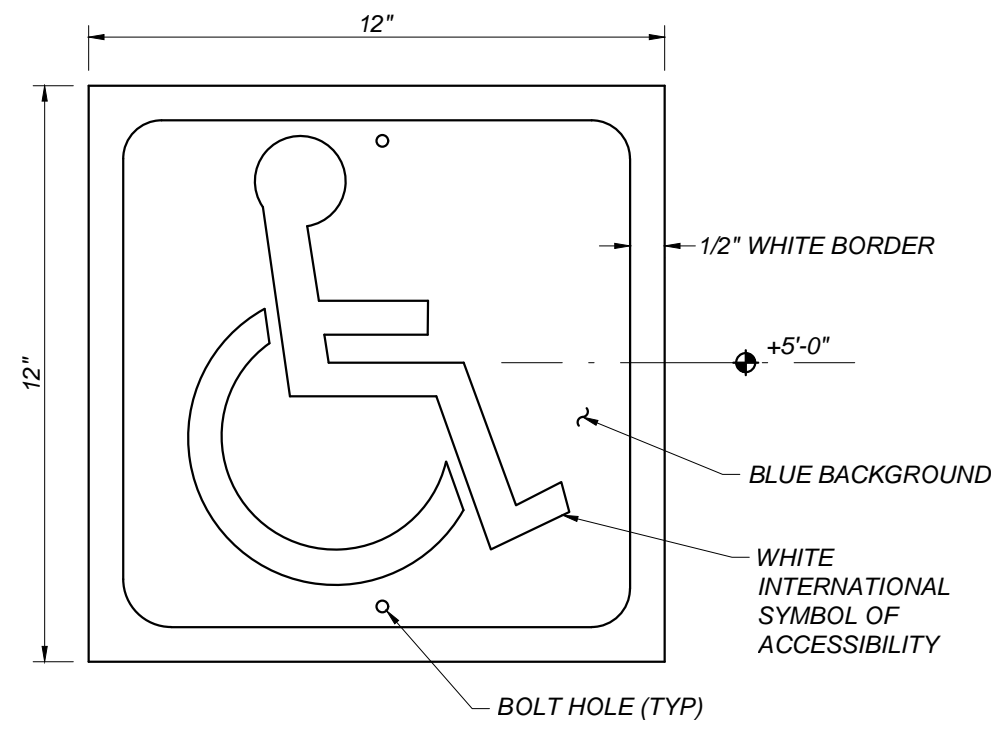
BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS

DETAILS

CONSTRUCTION DOCUMENTS

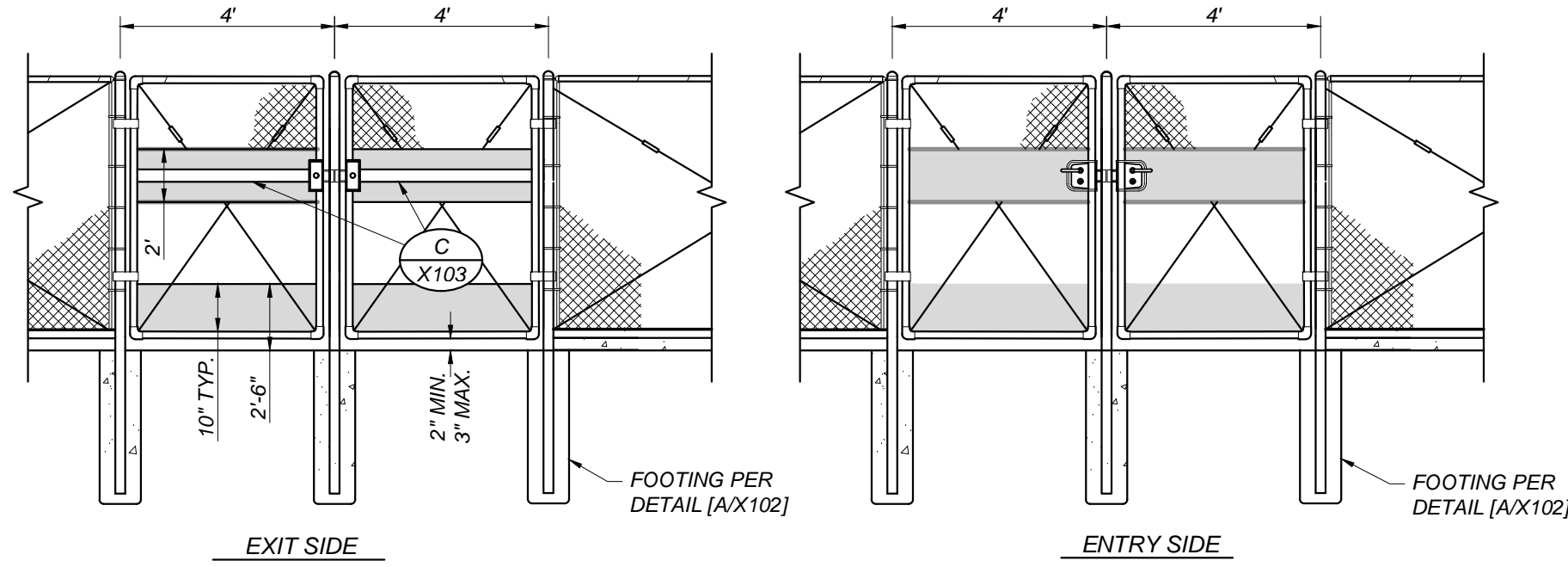
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED

X102

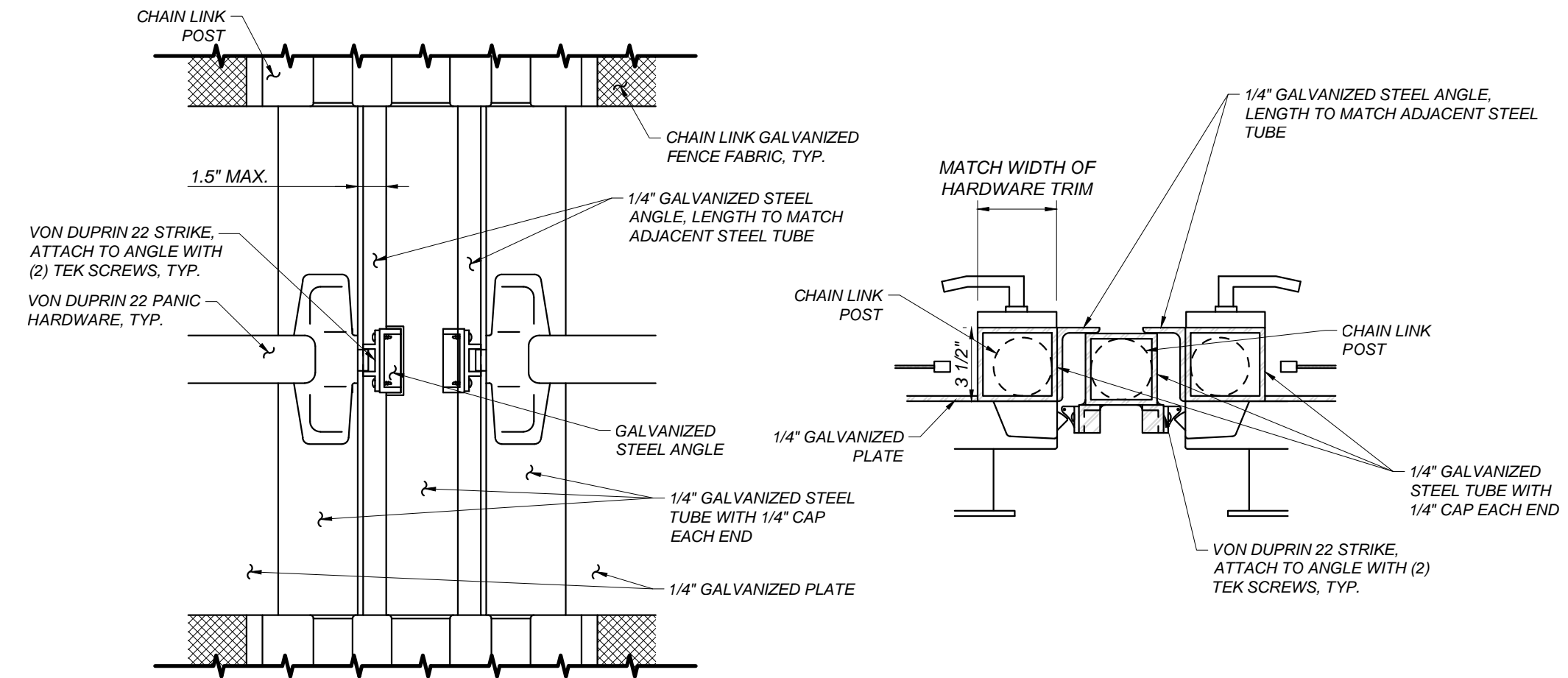


NOTES:

- SIGN BY "STOP SIGNS AND MORE", MODEL SKU-PAR-1124 WITH WEATHER AND GRAFFITI PROTECTION OR APPROVED EQUAL.
- BACKING PLATE 12"x12"x1/16 GAUGE METAL PLATE, SANDWICH CHAIN LINK FABRIC BETWEEN SIGN AND BACKING PLATE. FASTEN TOGETHER WITH TAMPER RESISTANT THRU BOLTS PER DETAIL [D/X103].



SEE DETAIL A/X102 FOR ADDITIONAL INFORMATION

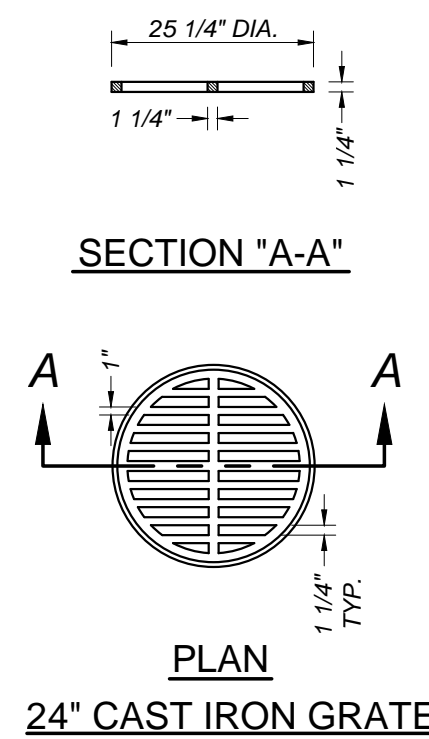
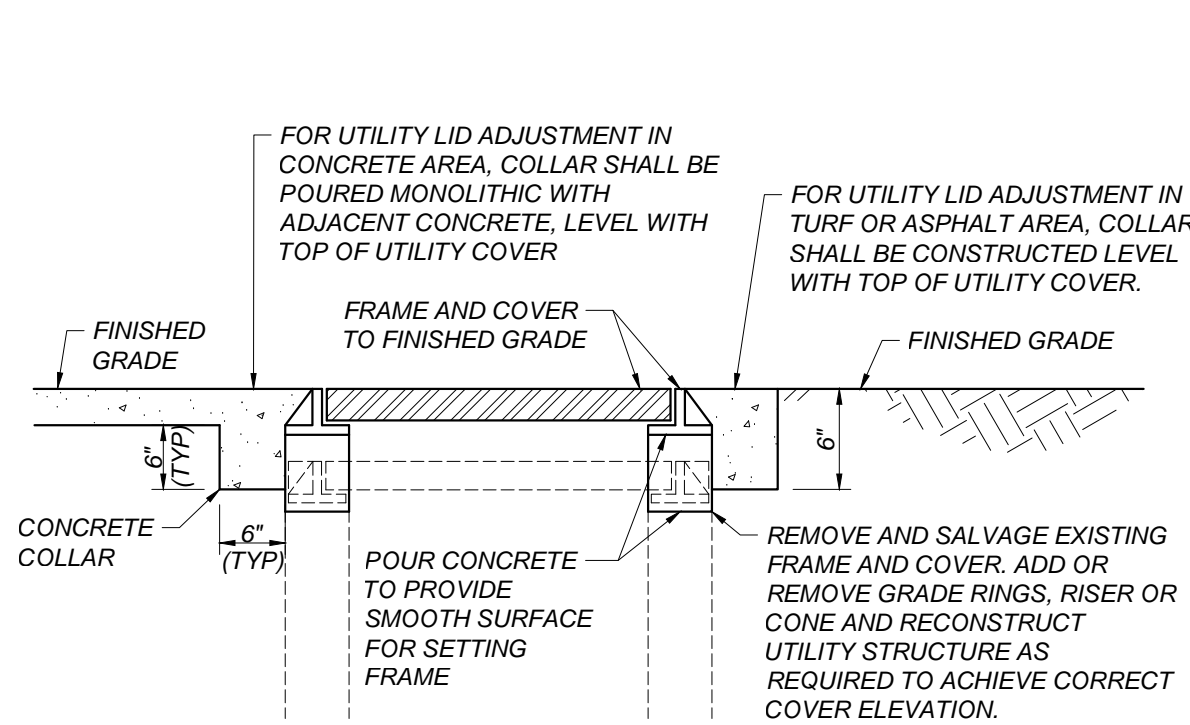
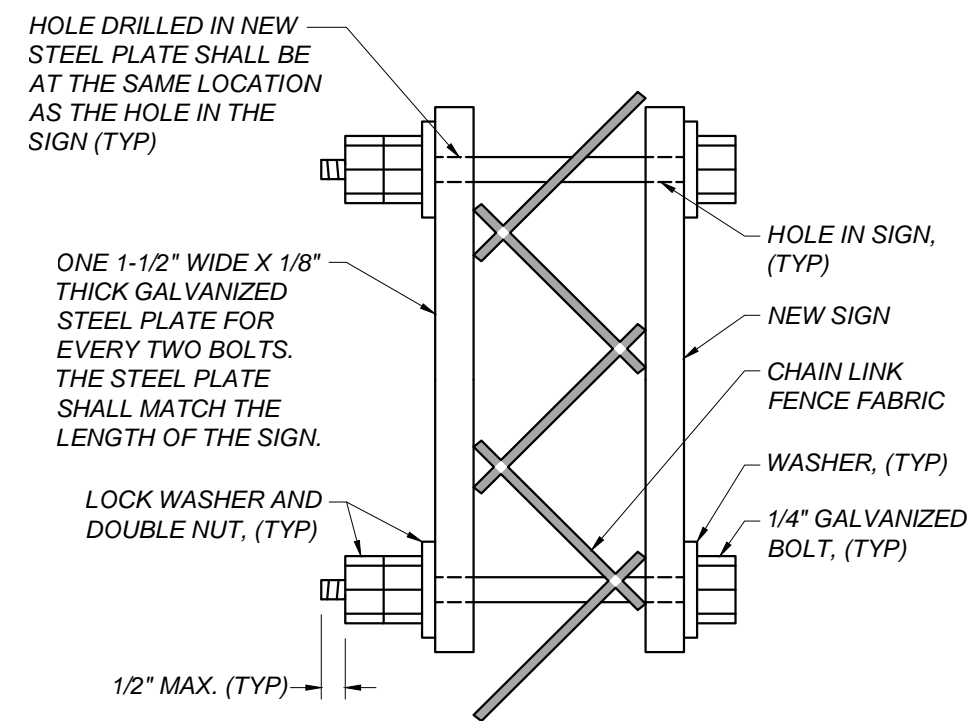


FOR DSA USE ONLY

A ENTRY ACCESSIBILITY SIGN X103 NOT TO SCALE

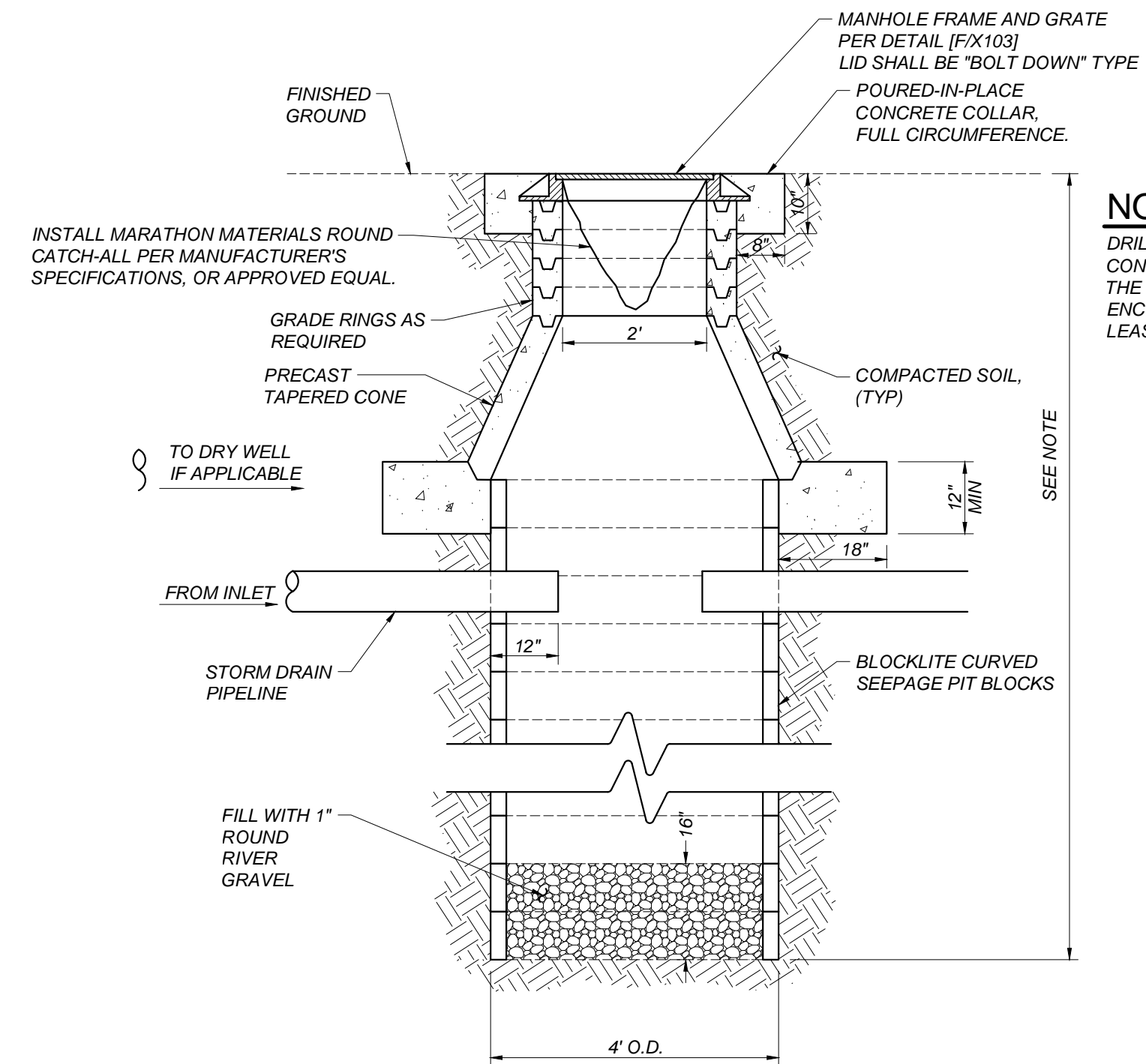
B DOUBLE ACCESSIBLE PEDESTRIAN GATE X103 NOT TO SCALE

C PANIC HARDWARE LATCH X103 NOT TO SCALE



NOTES:

- ALL DIMENSIONS ARE FINISHED DIMENSIONS.
- MATERIAL SHALL BE CAST IRON.
- FRAME AND COVER TO BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A48, CLASS 25.
- MANHOLE COVER DESIGN, AS A MINIMUM, IS TO HAVE THE WORDS "STORM SEWER" OR "STORM DRAIN" MOLDED INTO THE COVER, AS APPROPRIATE.
- GRATE OPENINGS SHALL BE 1/2" MAXIMUM WHERE LOCATED WITHIN THE PEDESTRIAN PATH OF TRAVEL.
- INSTALL SLOTTED GRATE SO SLOTS ARE PARALLEL WITH THE DIRECTION OF SURFACE DRAINAGE FLOW.



NOTE:

DRILL UNTIL SAND LAYER IS ENCOUNTERED. CONTINUE TO A MINIMUM DEPTH OF 20 FEET INTO THE SAND. WHERE SAND LAYER IS NOT ENCOUNTERED, DRILL TO TOTAL DEPTH OF AT LEAST 30 FEET.

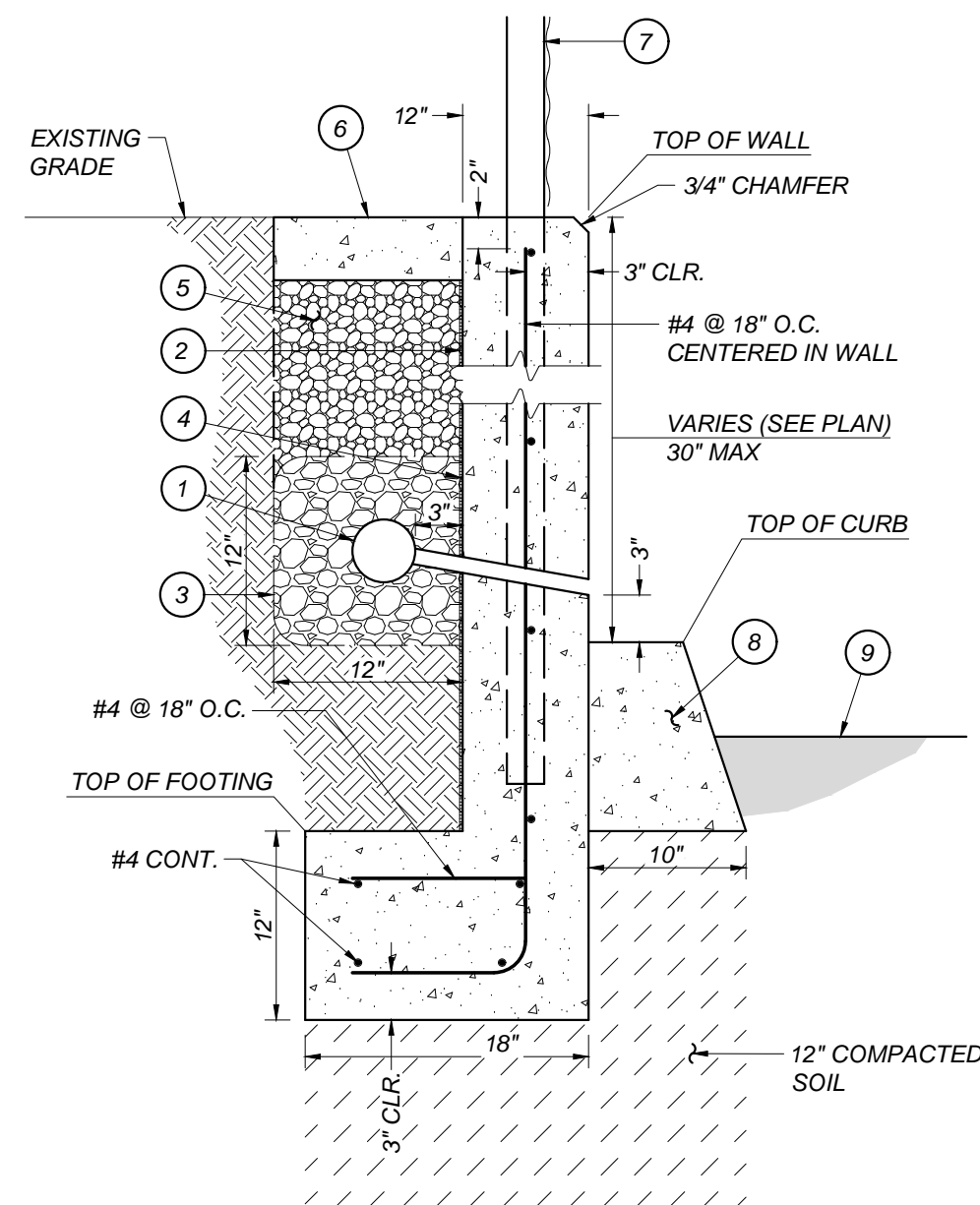
D SIGN MOUNTING DETAIL X103 NOT TO SCALE

E ADJUST UTILITY LID X103 NOT TO SCALE

F MANHOLE FRAME AND LID X103 NOT TO SCALE

NOTES:

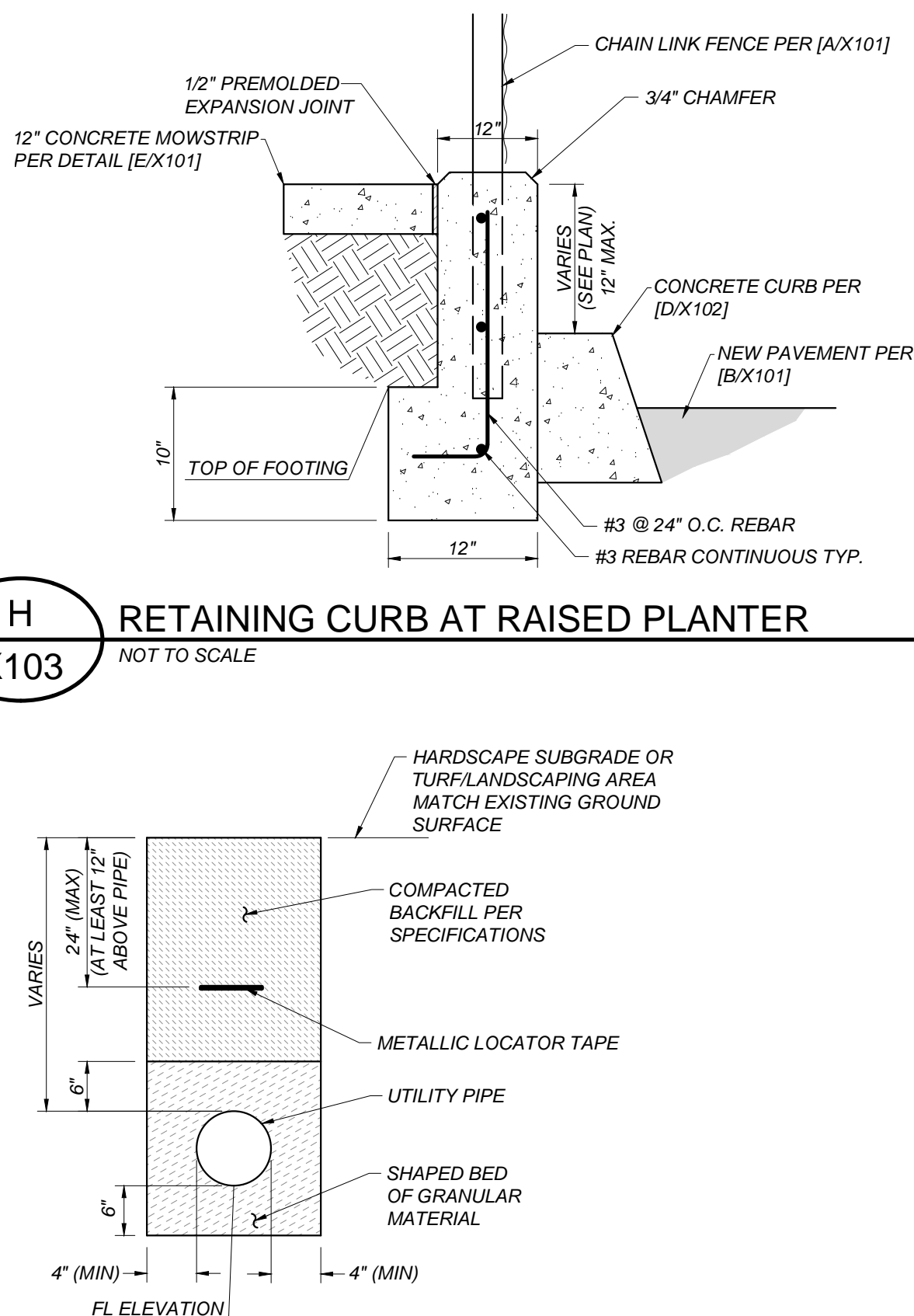
- CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- REINFORCING STEEL SHALL HAVE A TENSILE STRENGTH OF 60 KSI.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE 1/2" RADIUS.
- BACKFILL SHALL NOT BE PERFORMED FOR 7 DAYS FOLLOWING POUR, OR UNTIL CONCRETE HAS MET A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- ALL EXPOSED SURFACES INCLUDING VERTICAL WALL FACES SHALL RECEIVE A CLASS 1 CALTRANS SURFACE FINISH.
- MIRADRAIN SYSTEM, AS SUPPLIED BY WHITE CAP CONSTRUCTION SUPPLY, SHALL BE APPLIED TO THE BACK OF WALL PER MANUFACTURER'S RECOMMENDATIONS. SHEET DRAIN SHALL BE WRAPPED WITH FILTER FABRIC. EXTEND MIRADRAIN TO THE BOTTOM OF FLATWORK AT THE TOP OF THE WALL.
- PROVIDE PAINT-ON WATERPROOF MEMBRANE UNDERNEATH MIRADRAIN.



LEGEND:

- PERFORATED 4" CORRUGATED ABS DRAIN PIPE IN DRAIN ROCK ENVELOPE, WRAP DRAIN ROCK IN MIRAFI FW402 GEOTEXTILE OR APPROVED EQUAL. DRAIN ROCK TO BE ±1" FREE DRAINING ROCK. CONNECT WEEPHOLES TO 2" DRAIN PIPE TO DAYLIGHT THROUGH RETAINING WALL FACE
- TREMCO TREMPROOF 250GC FLUID APPLIED ELASTOMETRIC WATER PROOFING OR APPROVED EQUAL
- MIRAFI FW402 GEOTEXTILE OR APPROVED EQUAL
- MIRADRAIN SHEET DRAIN - SEE NOTE 6
- GRANULAR FILL
- 12" MOWSTRIP PER [E/X101]
- CHAIN LINK FENCE PER [A/X102]
- CONCRETE CURB PER [D/X102]
- NEW PAVEMENT PER [B/X101]

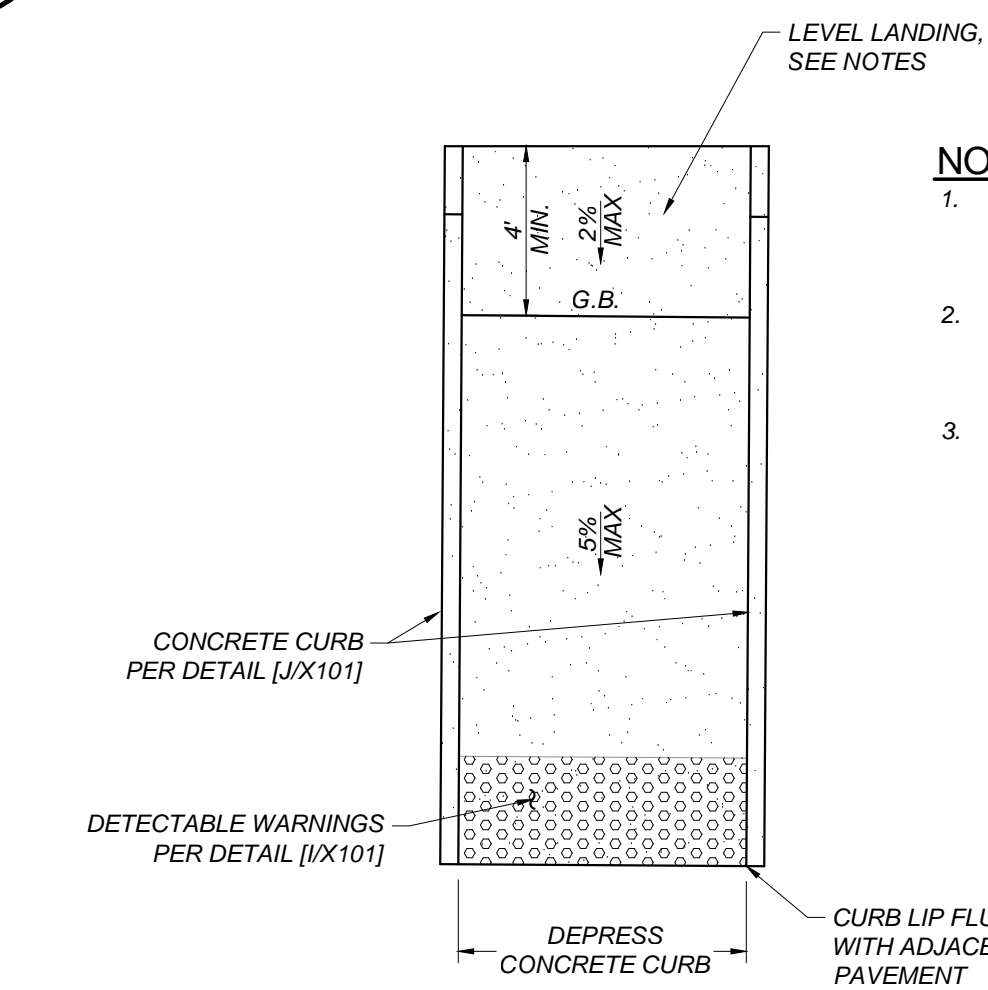
H RETAINING CURB AT RAISED PLANTER X103 NOT TO SCALE



G RETAINING WALL X103 NOT TO SCALE

I ONSITE TRENCH DETAIL FOR UTILITY LINES X103 NOT TO SCALE

J DRY WELL X103 NOT TO SCALE

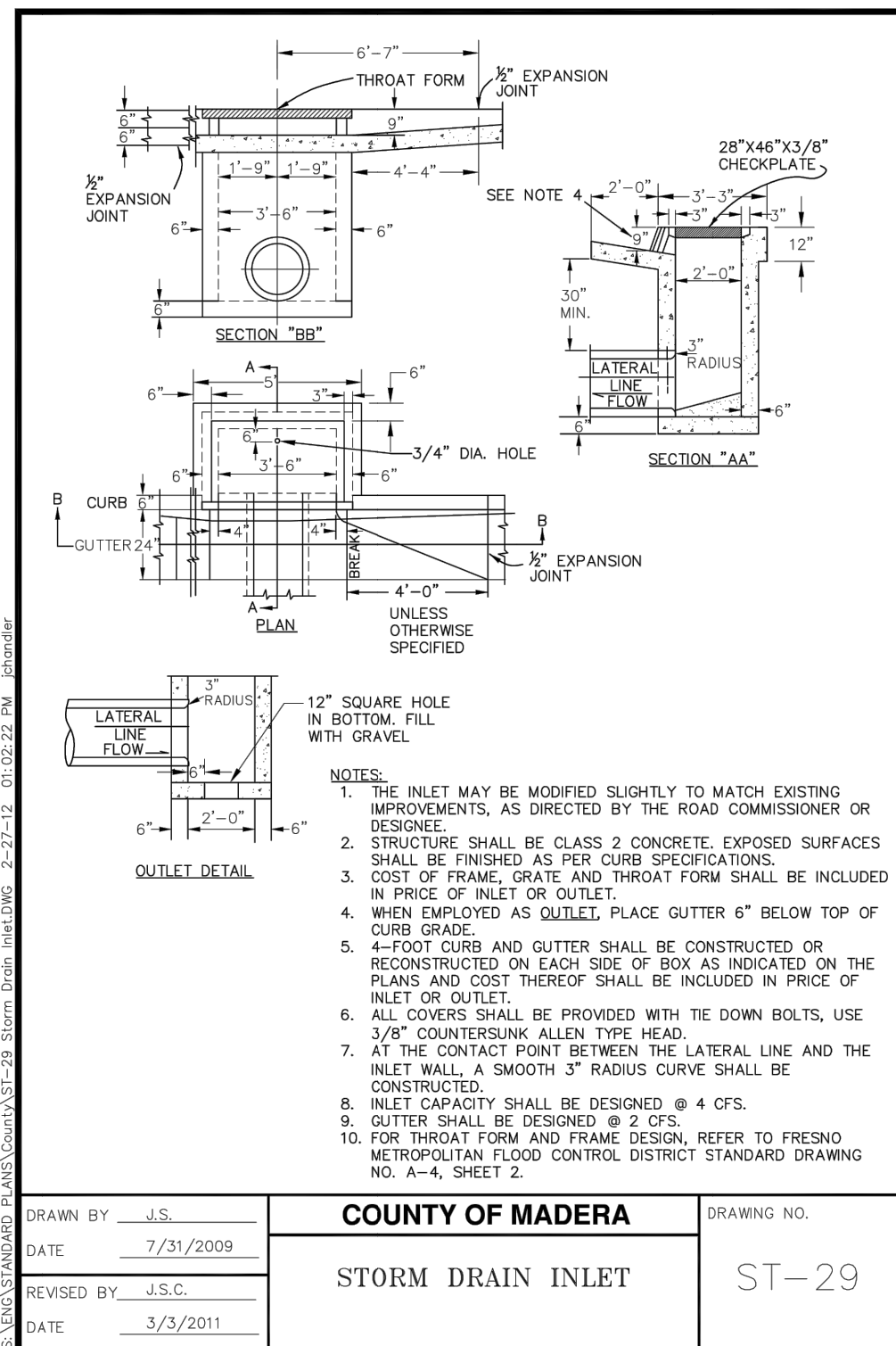


NOTES:

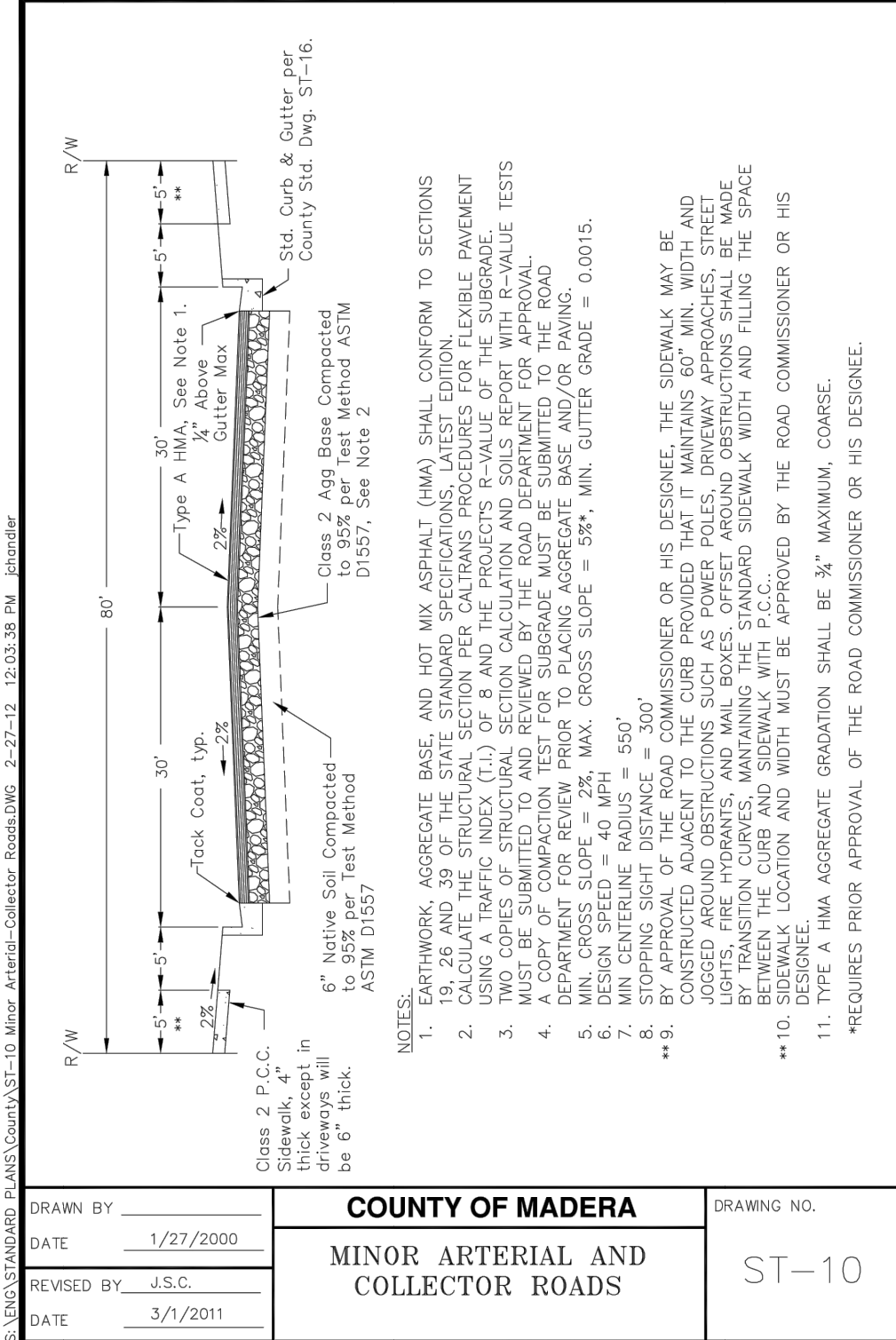
- RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%. RAMP CROSS SLOPES SHALL NOT EXCEED 2%.
- LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP MAY HAVE A COUNTER SLOPE NOT EXCEEDING 5%.

I ACCESSIBLE CURB RAMP AT PUBLIC RIGHT-OF-WAY X103 NOT TO SCALE

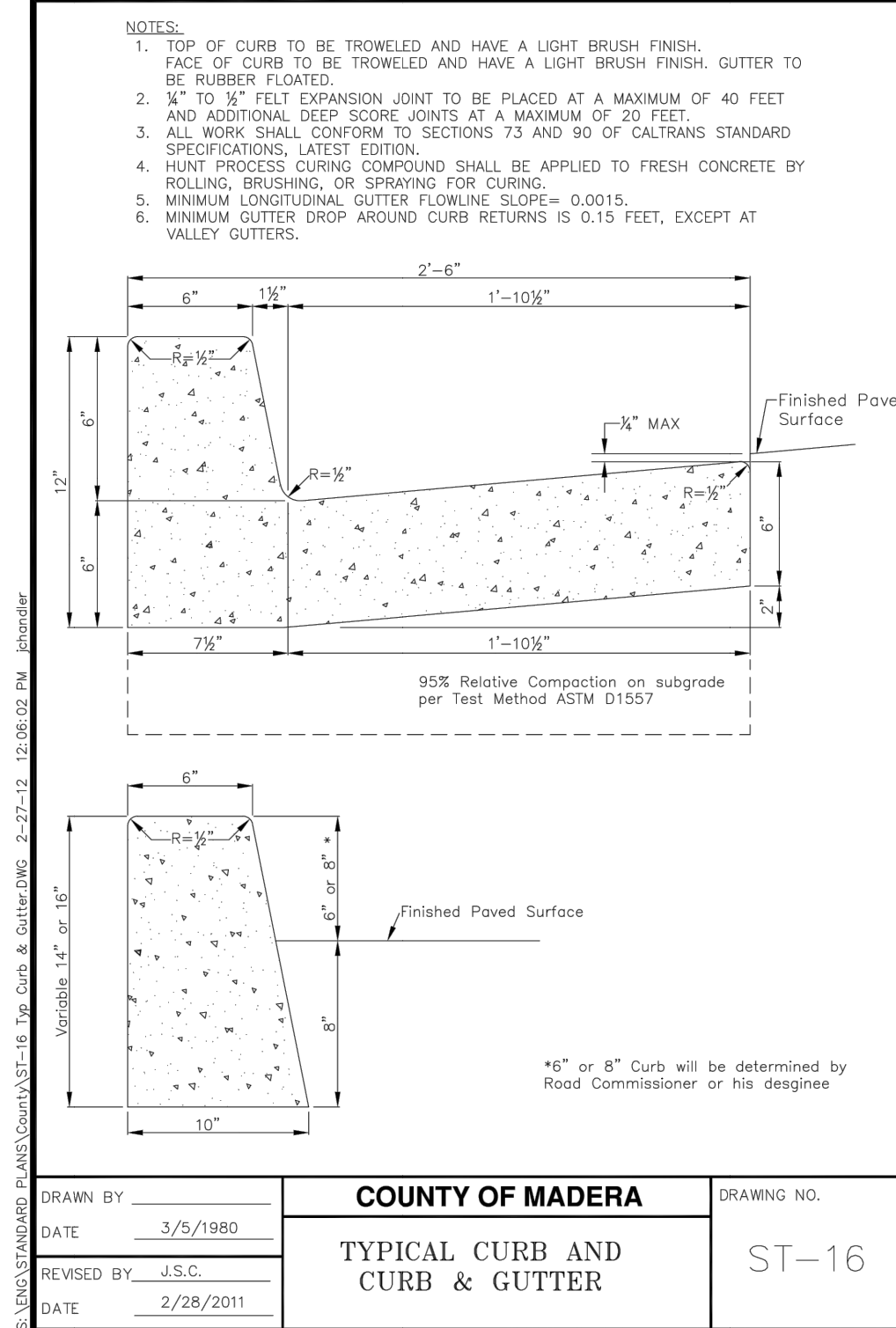
FOR DSA USE ONLY



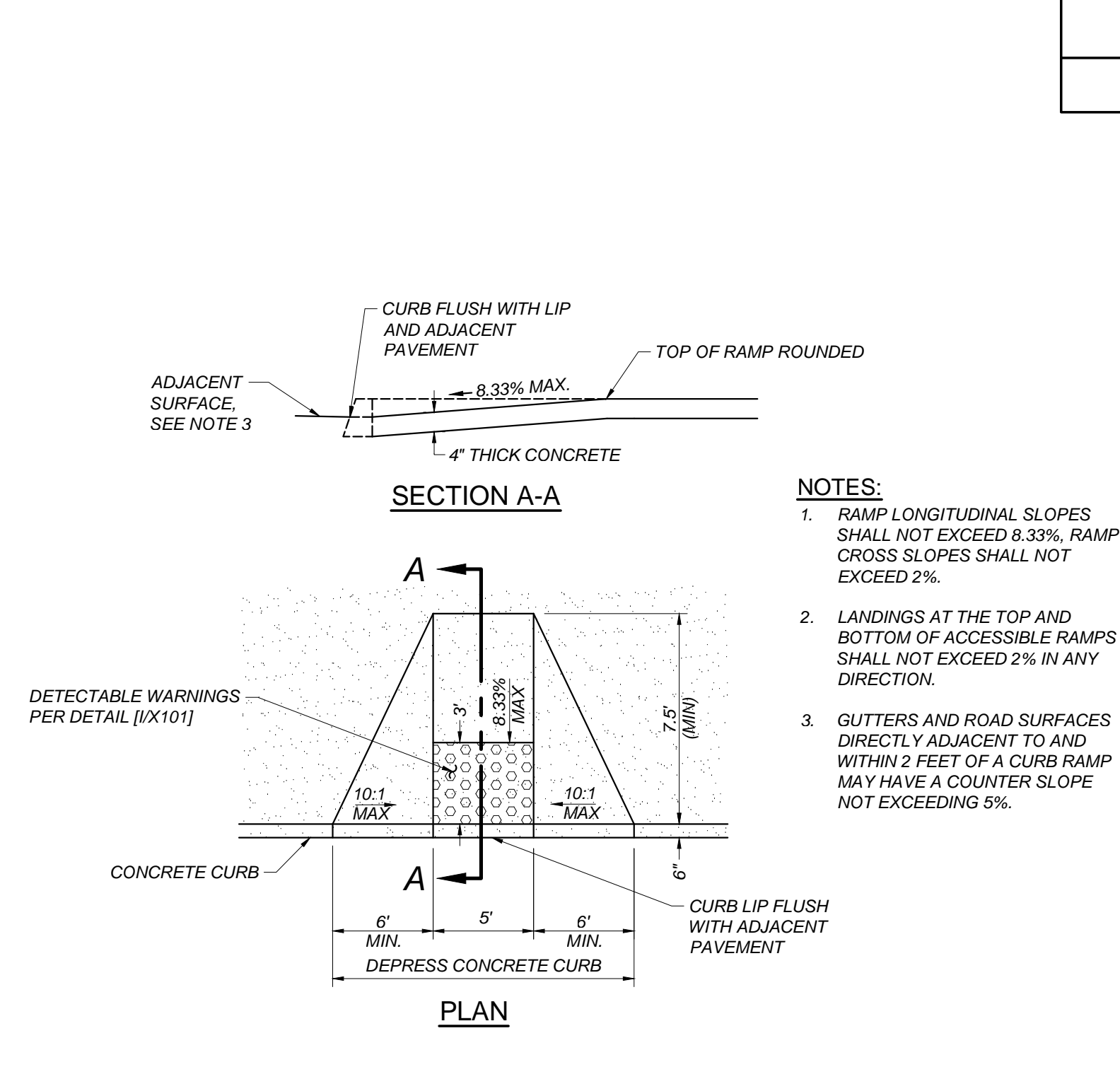
A
X104
STORM DRAIN INLET
NOT TO SCALE



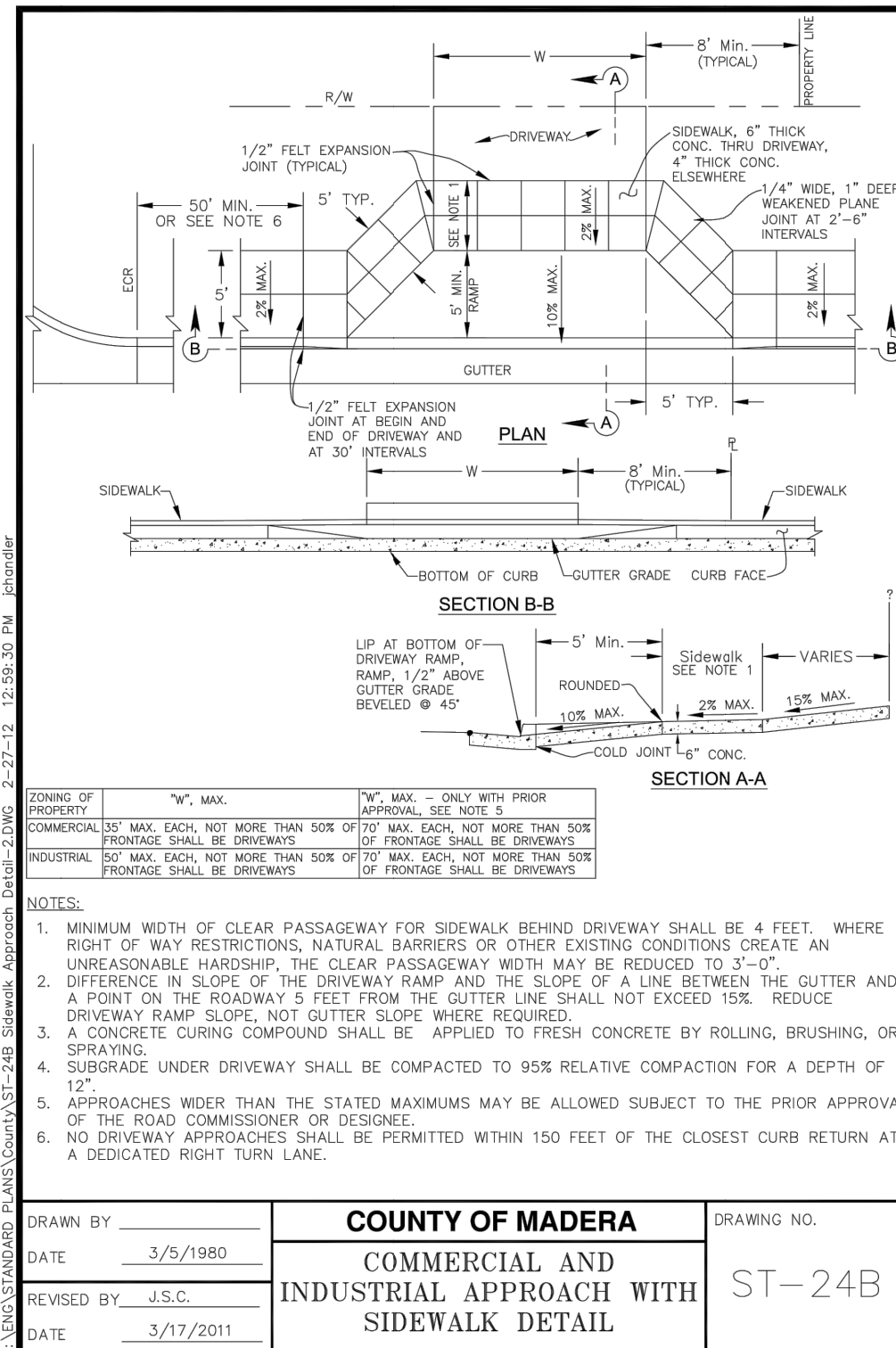
B
X104
MINOR ARTERIAL AND COLLECTOR ROADS
NOT TO SCALE



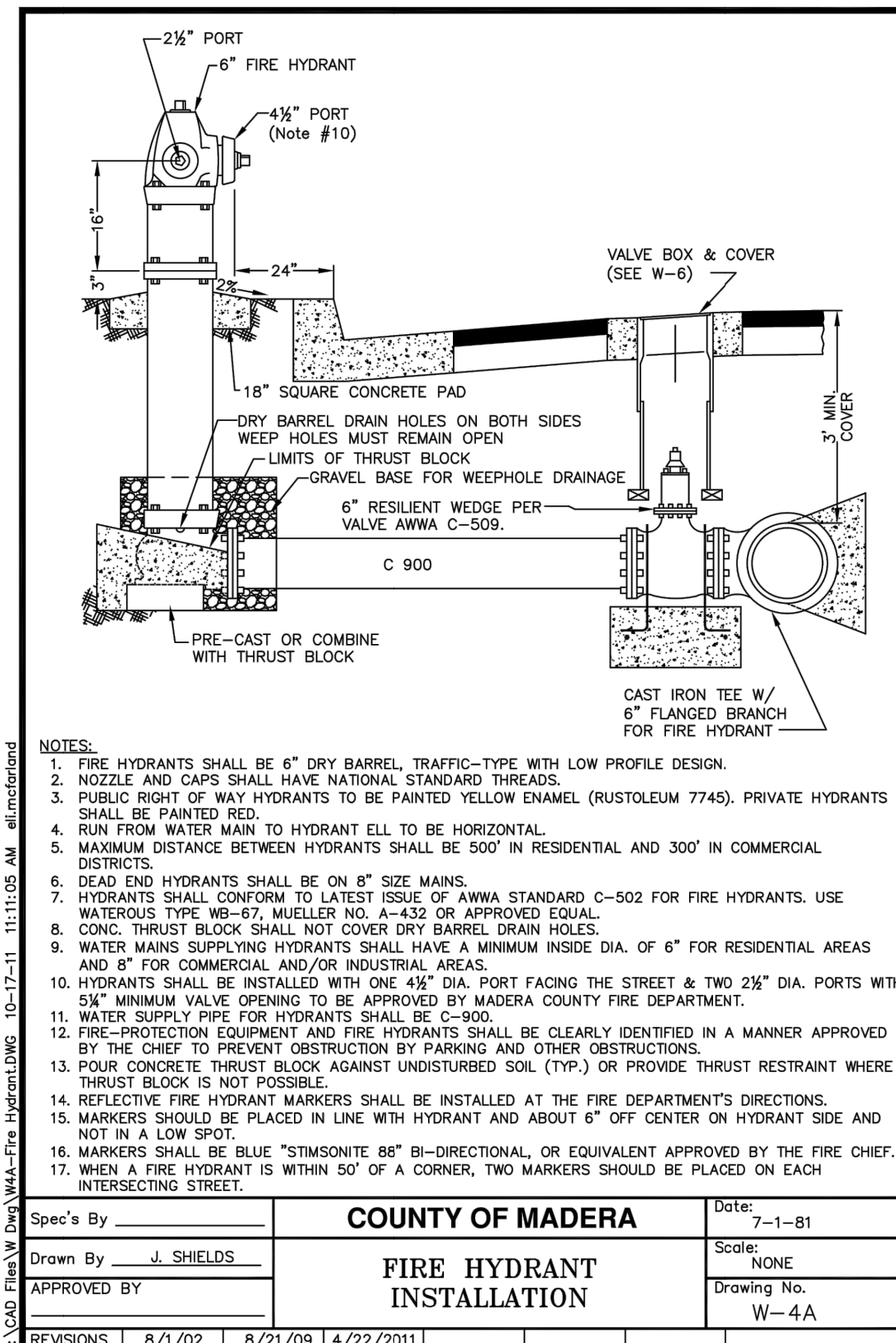
C
X104
TYPICAL CURB AND GUTTER
NOT TO SCALE



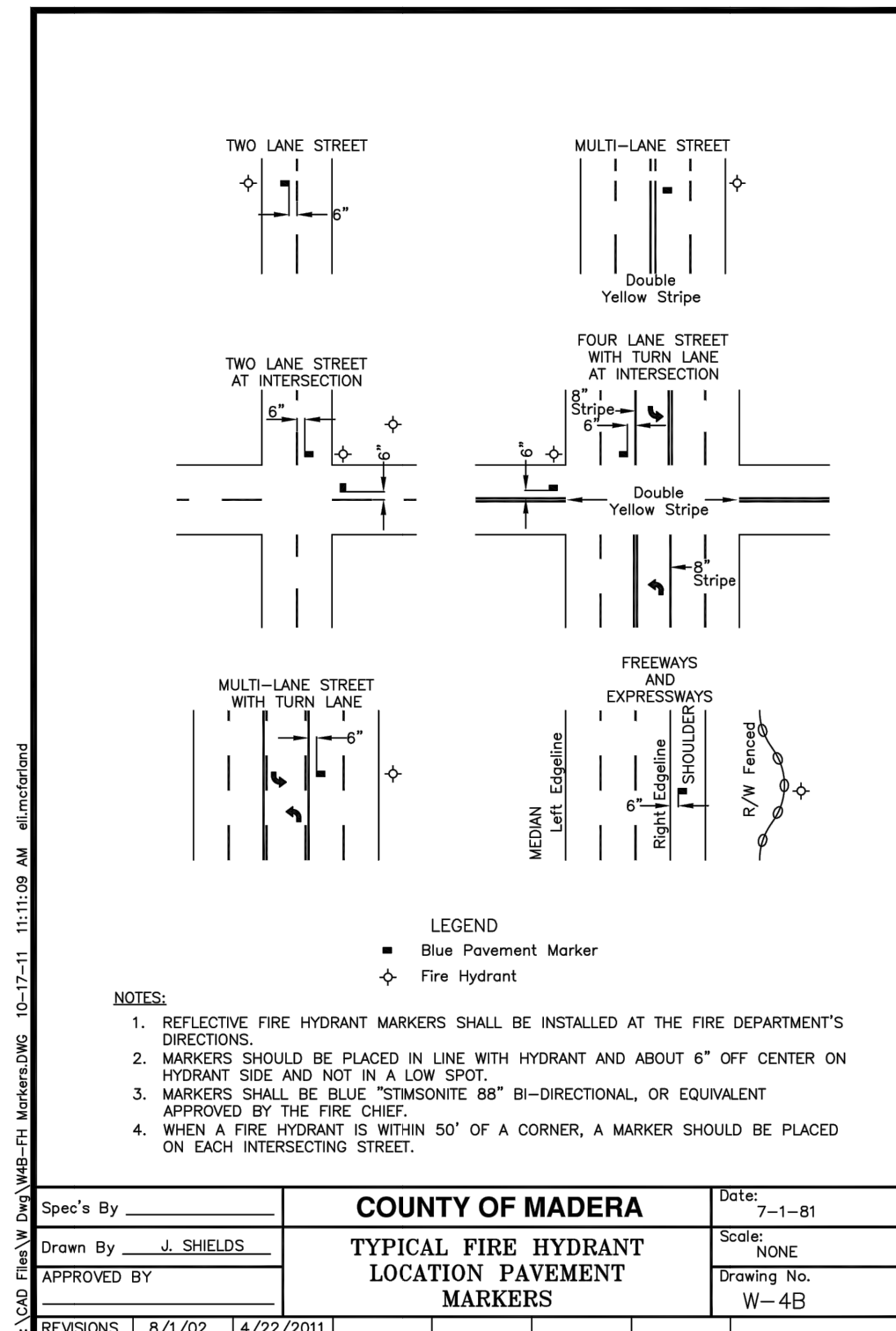
D
X104
CONCRETE CURB RAMP
NOT TO SCALE



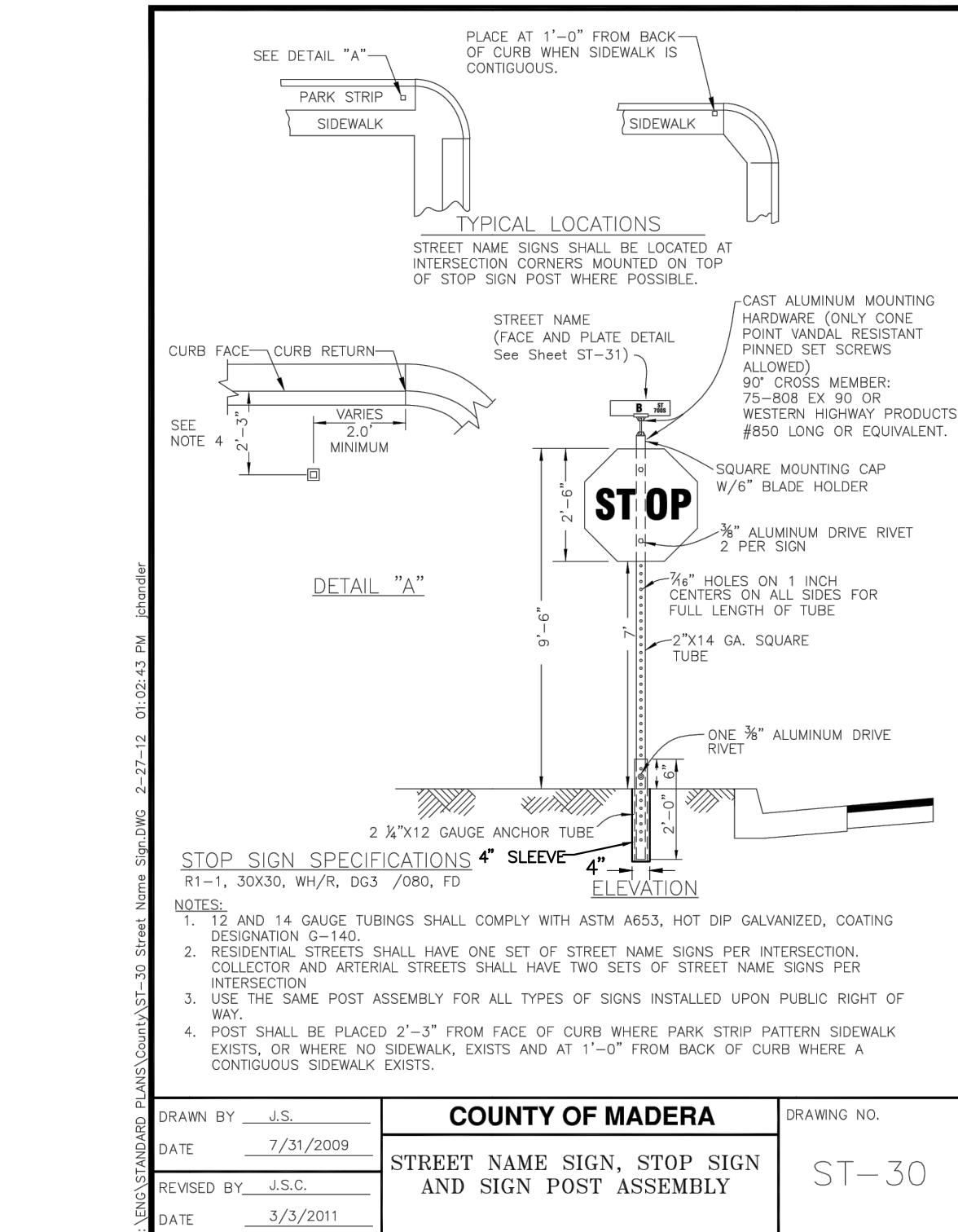
E
X104
DRIVE APPROACH
NOT TO SCALE



F
X104
FIRE HYDRANT INSTALLATION
NOT TO SCALE



G
X104
FIRE HYDRANT LOCATION MARKERS
NOT TO SCALE



H
X104
STOP SIGN ASSEMBLY
NOT TO SCALE

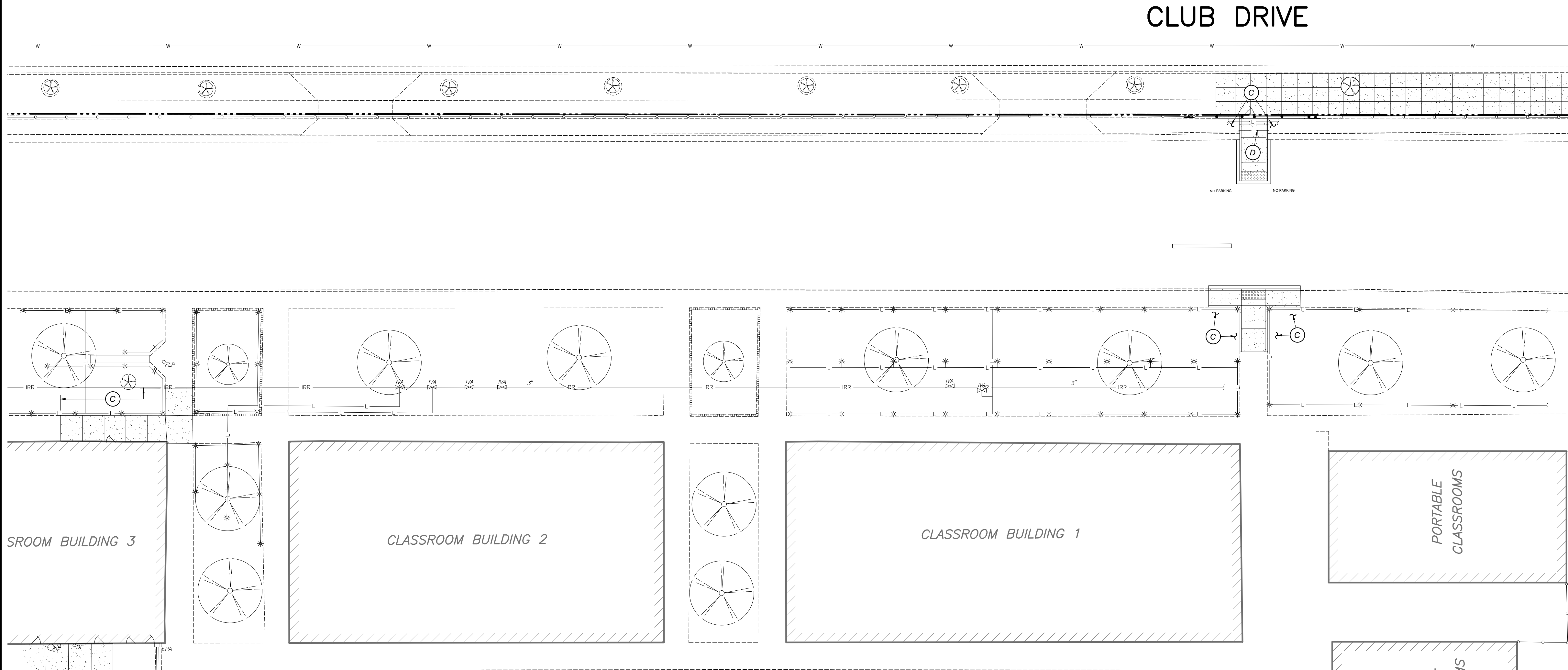


Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500



CONSULTANT
REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT
BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
COUNTY DETAILS
CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
X104



SEE SHEET L102 FOR CONTINUATION

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL	
	HUNTER MP1000 PROS-04-PRS40-CV-F (2) M	90-210	40	0.42	14'	K/L103	
	HUNTER MP2000 PROS-04-PRS40-CV-F (2) K	90-210	40	0.74	19'	K/L103	
	HUNTER MP2000 PROS-04-PRS40-CV-F (2) R	360	40	1.48	19'	K/L103	
	HUNTER MP3000 PROS-04-PRS40-CV-F (2) B	90-210	40	1.82	30'	K/L103	
	TREE BUBBLER 10F HUNTER MSBN 10F	360	30	1	1'	L/L103	
SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS	DETAIL		
	HUNTER I-20-04-PRB-SR 3.0	50	3	25'	J/L103		
	HUNTER I-25-04 25	60	23.5	66'	J/L103		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL					
	DRIP ASSEMBLY KIT TORO DZK-700	A/L104					
	FLUSH VALVE ASSEMBLY	D/L104					
	DRIP OPERATION INDICATOR HUNTER ECO-ID	E/L104					
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-18 TECHLINE PRESSURE COMPENSATING 17MM LANDSCAPE DRIPLINE WITH CHECK VALVE, 0.4 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. MINIMUM 3" COVER	C/L104					
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL					
	HUNTER ICV-G PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET.	I/L103					
	TORO P220-27-0 GLOBE	I/L103					
	HUNTER HQ-44RC QUICK COUPLER VALVE, YELLOW RUBBER COVER. 1" QCV NPT INLET, PROVIDE KEY AND HOSE SWIVEL AS SPECIFIED	H/L103					
	RESILIENT WEDGE GATE VALVE NIBCO P-619-RW OR APPROVED EQUAL	G/L103					
	HUNTER NODE-600 6-STATION CONTROLLER, OUTDOOR, BATTERY POWERED. PROVIDE DC LATCHING SOLENOID FOR VALVES CONTROLLED BY NODE. LOCATE IN VALVE BOX						
							A/L103
							A/L103
							D/L103
							B/L104
							E/L103
							D/L103
							VALVE NUMBER
							VALVE FLOW (GPM)
							VALVE SIZE
							PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE
							CONNECT NEW MAIN LINE TO EXISTING MAIN LINE
							CONNECT NEW LATERAL LINE TO EXISTING LATERAL LINE
							PROTECT EXISTING IRRIGATION HEADS. ADJUST HEADS/NOZZLES FOR NEW IMPROVEMENTS. SEE GENERAL IRRIGATION NOTE #17
							PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8

IRRIGATION EQUIPMENT LOCATION:

IRRIGATION CONTROLLER:

CONTROLLER MOUNTED ALONG FENCE THAT IS LOCATED IN WELL TANK YARD, SOUTH OF THE MPR BUILDING, ALONG MIDLAND WAY STREET.

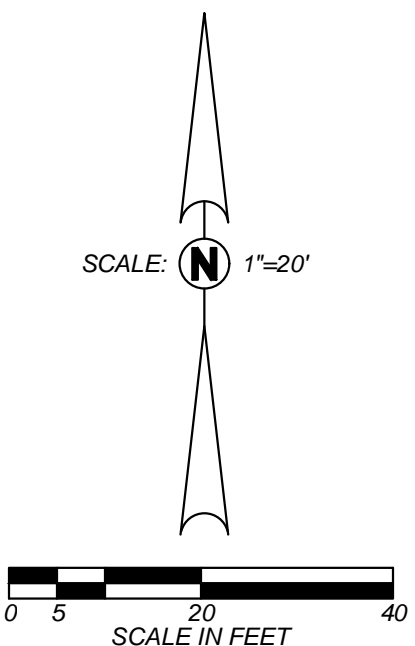
IRRIGATION PRESSURE TANK YARD AND BACKFLOW PREVENTER:

LOCATED IN WELL TANK YARD, SOUTH OF MPR BUILDING, ALONG MIDLAND STREET.

CONTRACTOR SPECIAL IRRIGATION NOTES:

- THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.
- PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
- THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
- UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

IRRIGATION SYSTEM OBSERVATION LOG			
ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH	
		PRINT NAME	SIGNATURE
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK		
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT		
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST		
IR-4	VALVE INSTALLATIONS		
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING		
IR-6	CONTROL EQUIPMENT INSTALLATION		
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)	N/A	N/A
IR-8	FINAL SYSTEM OPERATION REVIEW		
NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.			



POINT OF CONNECTION

WATER SERVICE SIZE MAX FLOW: WELL WATER. CONTRACTOR SHALL VERIFY
MAXIMUM STATION FLOW: CONTRACTOR SHALL VERIFY
IRRIGATION BACKFLOW SIZE: 3"
BOOSTER PUMP: 65-70 PSI
IRRIGATION WATER SOURCE: WELL WATER. CONTRACTOR SHALL VERIFY
MINIMUM EXISTING MINIMUM STATIC PRESSURE H/L: CONTRACTOR SHALL VERIFY. SEE IRRIGATION GENERAL NOTE #3
DESIGN OPERATING PRESSURE: 25 PSI DRIP
40 PSI ROTATORS
60 PSI ROTORS
30 PSI BUBBLERS

IRRIGATION SYSTEM BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF \$1,000 FOR THE REPLACEMENT OF EXISTING OR THE INSTALLATION OF NEW SPRINKLER HEADS, VALVES, PIPING AND OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR THE PROPER OPERATION OF THE EXISTING SYSTEM WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR NEW INSTALLATION.

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

David W. Briley, P.E. 2787



Blair, Church & Flynn
Consulting Engineers

Blair, Church & Flynn
Consulting Engineers
455. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

CONSULTANT

REF. & REV.

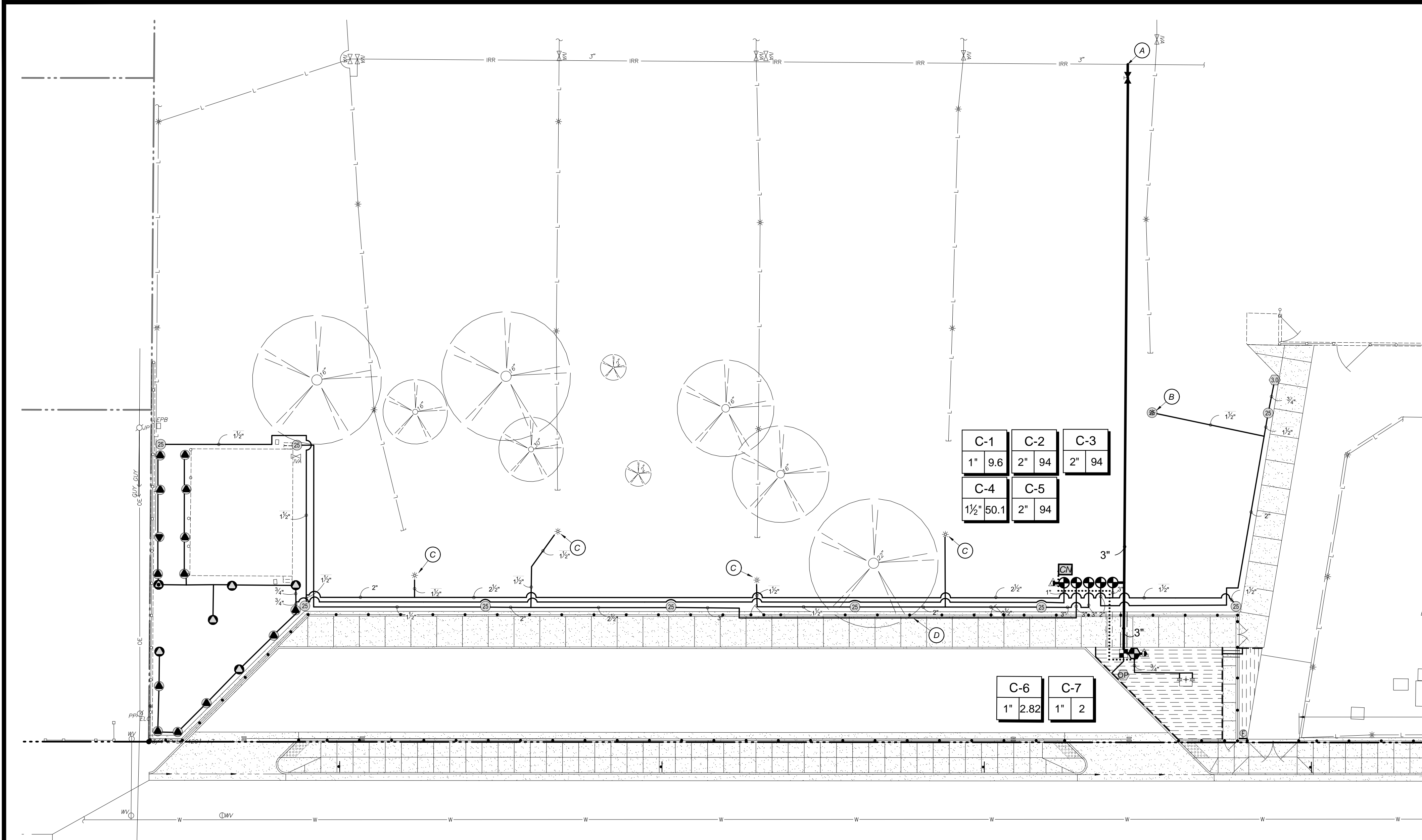
MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
IRRIGATION PLAN

CONSTRUCTION DOCUMENTS











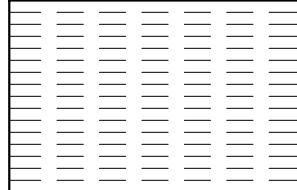





DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED

L101



FOR DSA USE ONLY

IRRIGATION LEGEND:

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>ARC</u>	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>	<u>DETAIL</u>
	HUNTER MP1000 PROS-04-PRS40-CV-F (2) M	90-210	40	0.42	14'	K/L103
	HUNTER MP2000 PROS-04-PRS40-CV-F (2) K	90-210	40	0.74	19'	K/L103
	HUNTER MP2000 PROS-04-PRS40-CV-F (2) R	360	40	1.48	19'	K/L103
	HUNTER MP3000 PROS-04-PRS40-CV-F (2) B	90-210	40	1.82	30'	K/L103
	TREE BUBBLER 10F HUNTER MSBN 10F	360	30	1	1'	L/L103
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL</u>	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>	<u>DETAIL</u>	
	HUNTER I-20-04-PRB-3.0	50	3	25'	J/L103	
	HUNTER I-25-04 25	60	23.5	66'	J/L103	
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>DETAIL</u>				
	DRIP ASSEMBLY KIT TORO DZK-700	AL104				
	FLUSH VALVE ASSEMBLY	D/L104				
	DRIP OPERATION INDICATOR HUNTER ECO-ID	E/L104				
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-18 TECHLINE PRESSURE COMPENSATING 17MM LANDSCAPE DRIPLINE WITH CHECK VALVE, 0.4 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. MINIMUM 3" COVER	C/L104				
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>DETAIL</u>				
	HUNTER ICV-G PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET.	I/L103				
	TORO P220-27-0 GLOBE	I/L103				
	HUNTER HQ-44RC QUICK COUPLER VALVE, YELLOW RUBBER COVER. 1" OCV NPT INLET, PROVIDE KEY AND HOSE SWIVEL AS SPECIFIED	H/L103				
	RESILIENT WEDGE GATE VALVE NIBCO P-619-RW OR APPROVED EQUAL	G/L103				
	HUNTER NODE-600 6-STATION CONTROLLER, OUTDOOR, BATTERY POWERED. PROVIDE DC LATCHING SOLENOID FOR VALVES CONTROLLED BY NODE. LOCATE IN VALVE BOX					

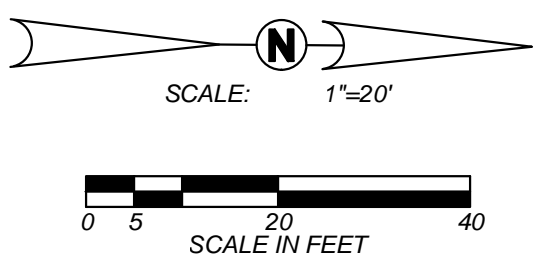
GENERAL IRRIGATION NOTES:

- ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)
- THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE, AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.
- VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.
- ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.
- INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.
- CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.
- THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.
- CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
- ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.
- WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
- ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:
 - CONTRACTOR'S ADDRESS AND PHONE NUMBER.
 - DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).
 - NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.
 - COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.
 - COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
 - ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.
 - INITIAL ELECTRICAL DATA ON EACH VALVE:
 - OHMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.
 - VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.
- THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.
- IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.
- REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.

	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 BELL END, SOLVENT WELD, SIZE AS NOTED	A/L103
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 GASKETED JOINTS, SIZE AS NOTED	A/L103
	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE	D/L103
	DRIPLINE MANIFOLD: PVC SCHEDULE 40	B/L104
	CONTROL WIRE PLUS ONE (1) COMMON WIRE	E/L103
	CONTROL WIRE SLEEVE	D/L103

	VALVE NUMBER
	VALVE FLOW (GPM)
	VALVE SIZE
	PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE
	CONNECT NEW MAIN LINE TO EXISTING MAIN LINE
	CONNECT NEW LATERAL LINE TO EXISTING LATERAL LINE
	PROTECT EXISTING IRRIGATION HEADS. ADJUST HEADS/NOZZLES FOR NEW IMPROVEMENTS. SEE GENERAL IRRIGATION NOTE #17
	PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8

SEE SHEET L103-L104 FOR IRRIGATION DETAILS



Blair,
Church & Flynn

CONSULTING ENGINEERS

LANDSCAPE ARCHITECT

CONSULTANT

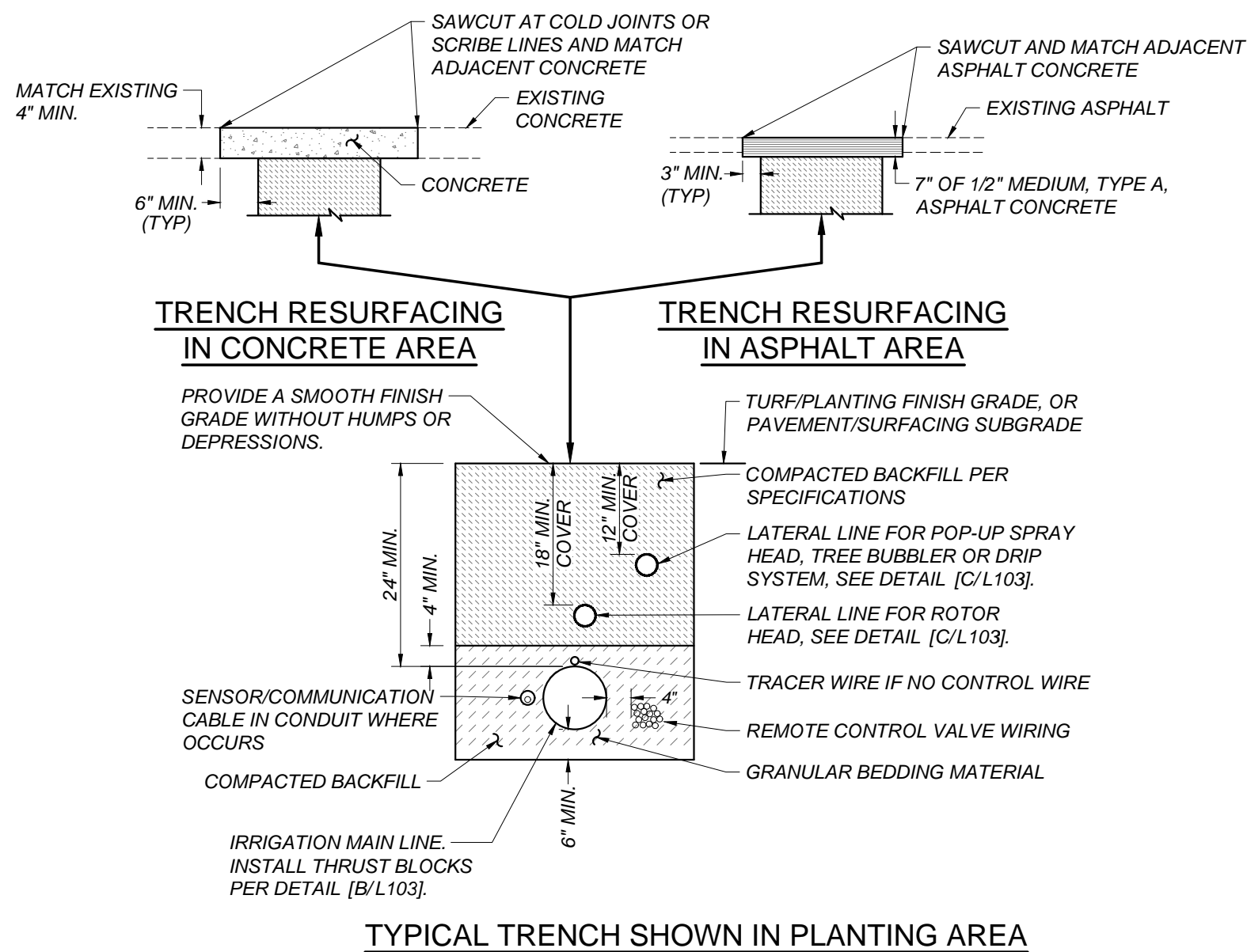
Blair, Church & Flynn
Consulting Engineers
465. Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

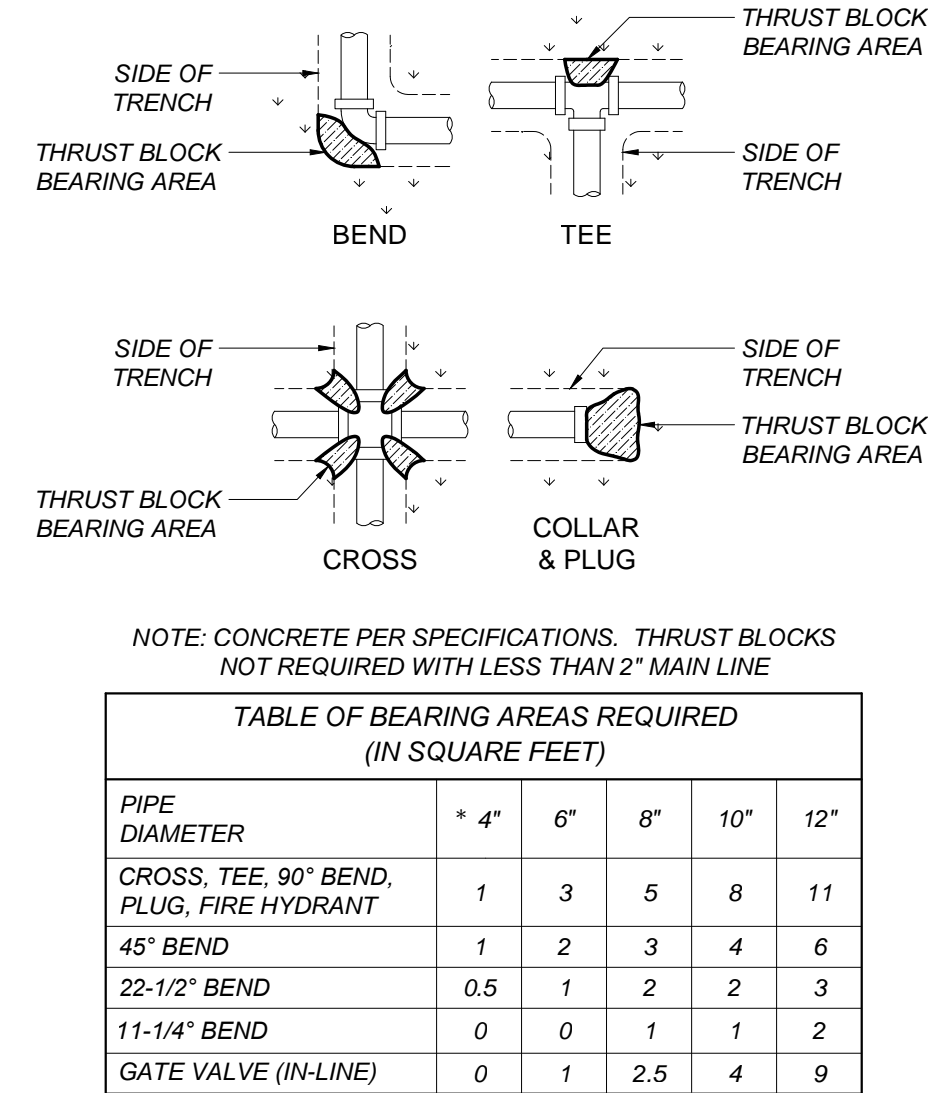
MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
IRRIGATION PLAN

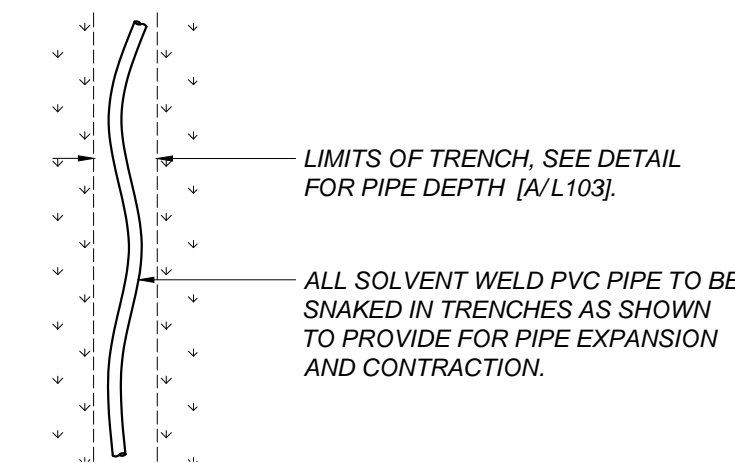
CONSTRUCTION DOCUMENTS	L102
DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED	



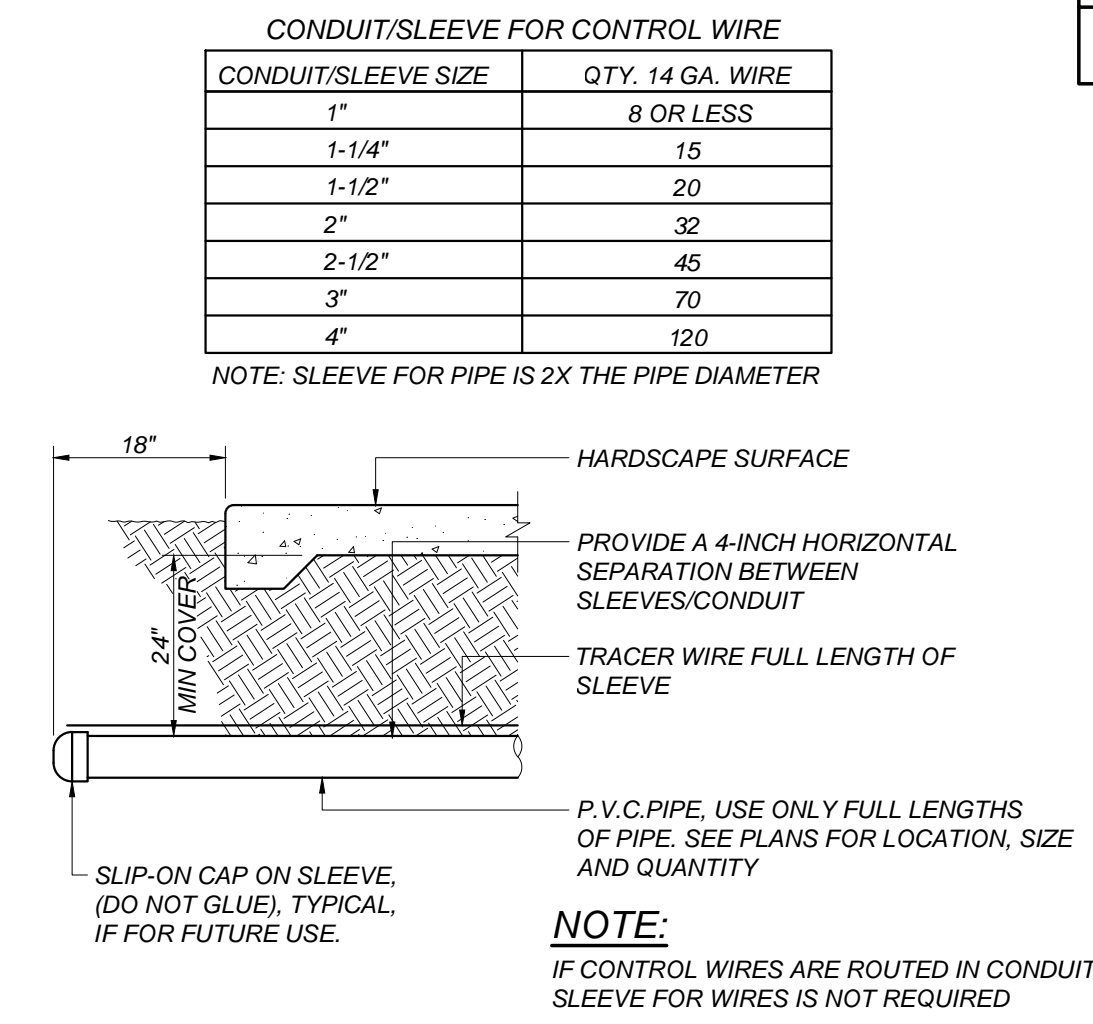
A
L103
IRRIGATION TRENCH BACKFILL
NOT TO SCALE



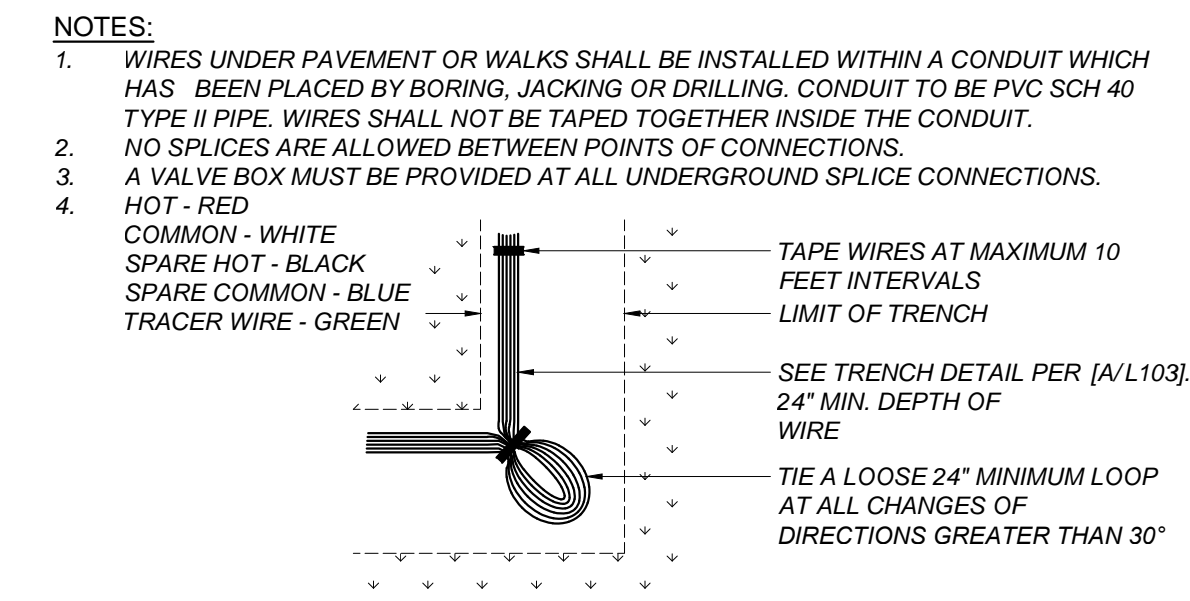
B
L103
CONCRETE THRUST BLOCKS
NOT TO SCALE



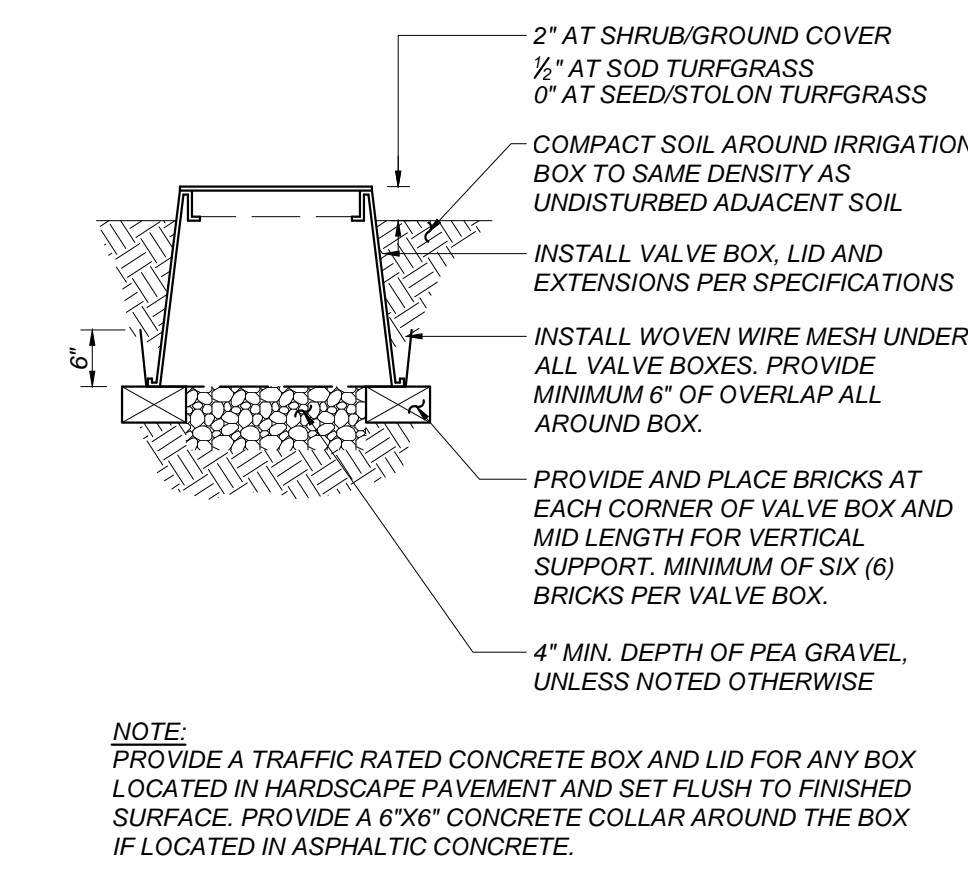
C
L103
SOLVENT WELD PIPE
NOT TO SCALE



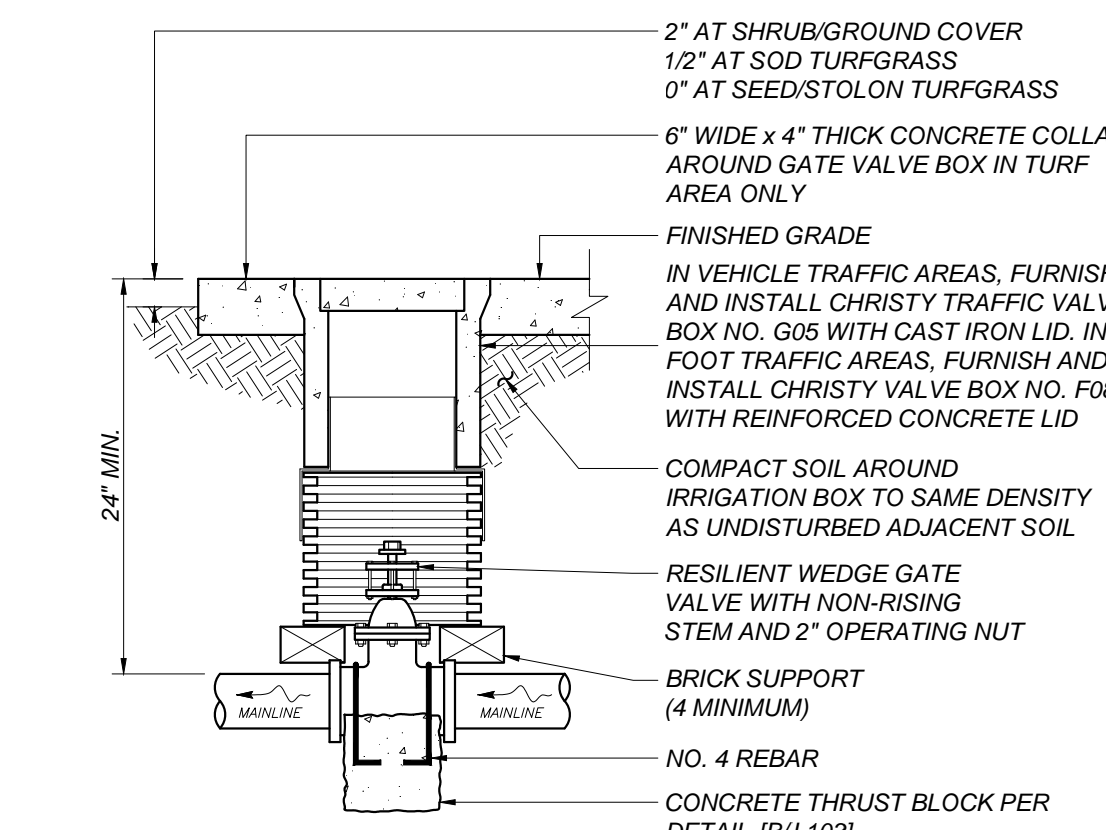
D
L103
IRRIGATION SLEEVE/CONDUIT
NOT TO SCALE



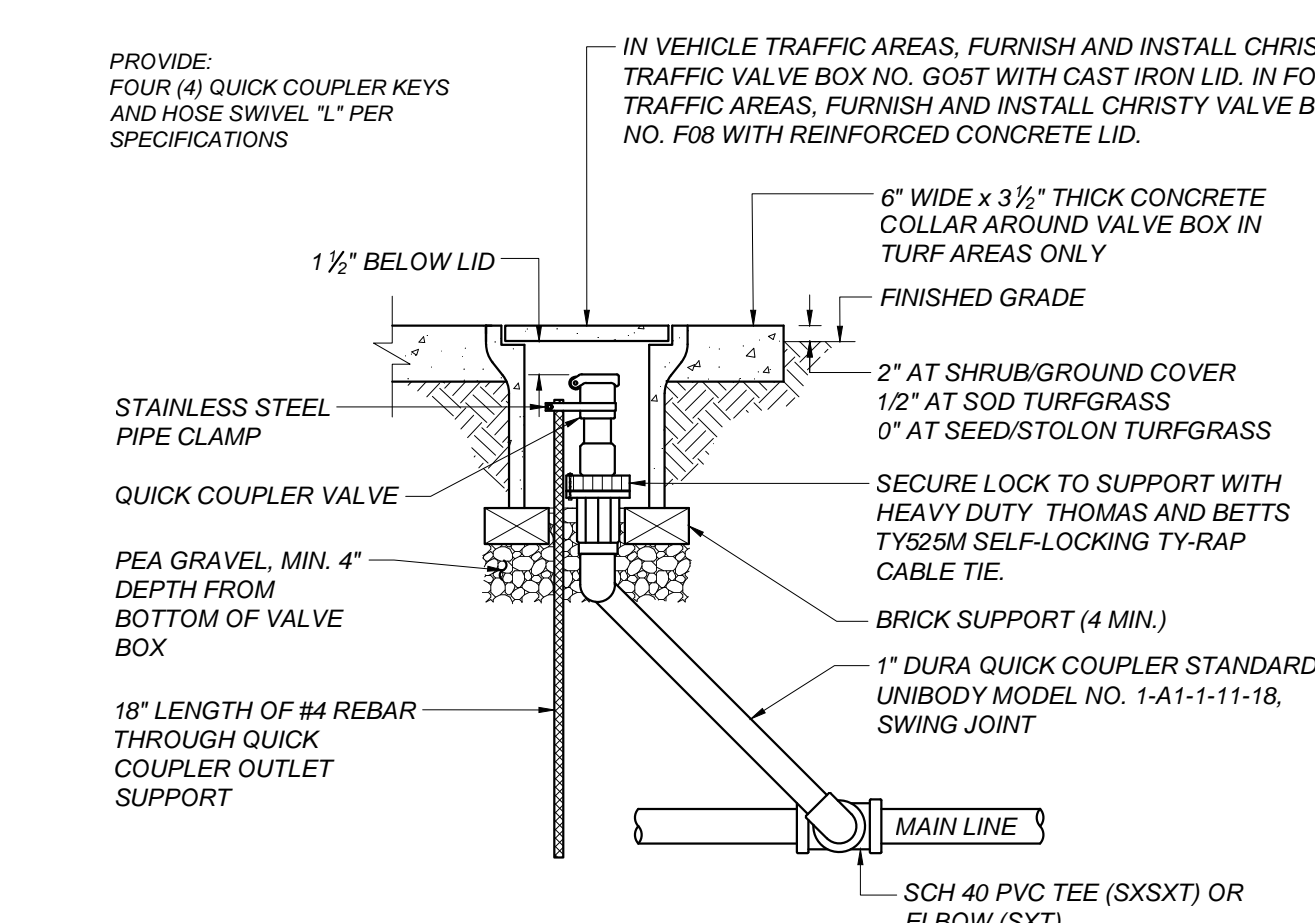
E
L103
IRRIGATION WIRE
NOT TO SCALE



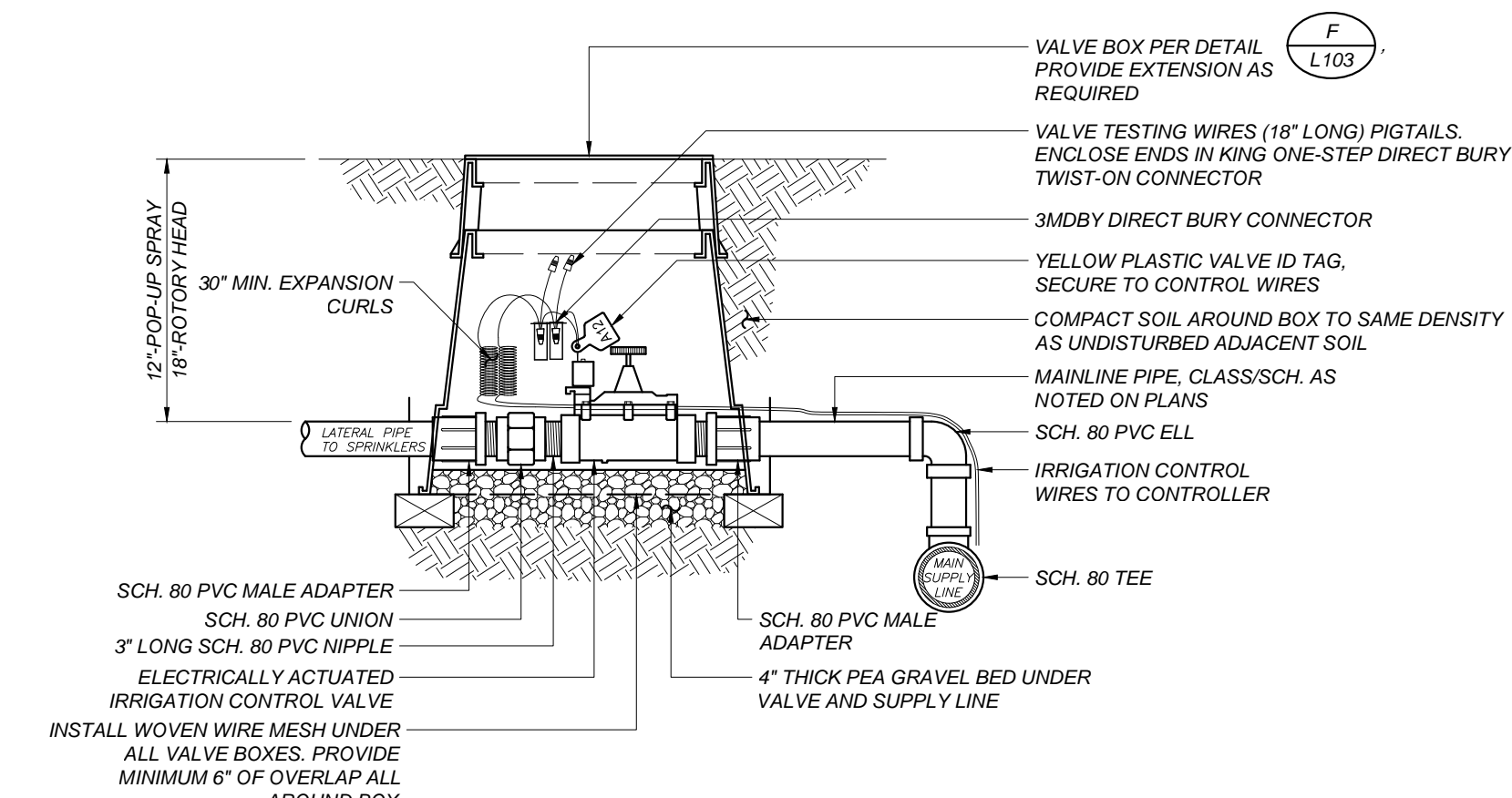
F
L103
IRRIGATION VALVE BOX
NOT TO SCALE



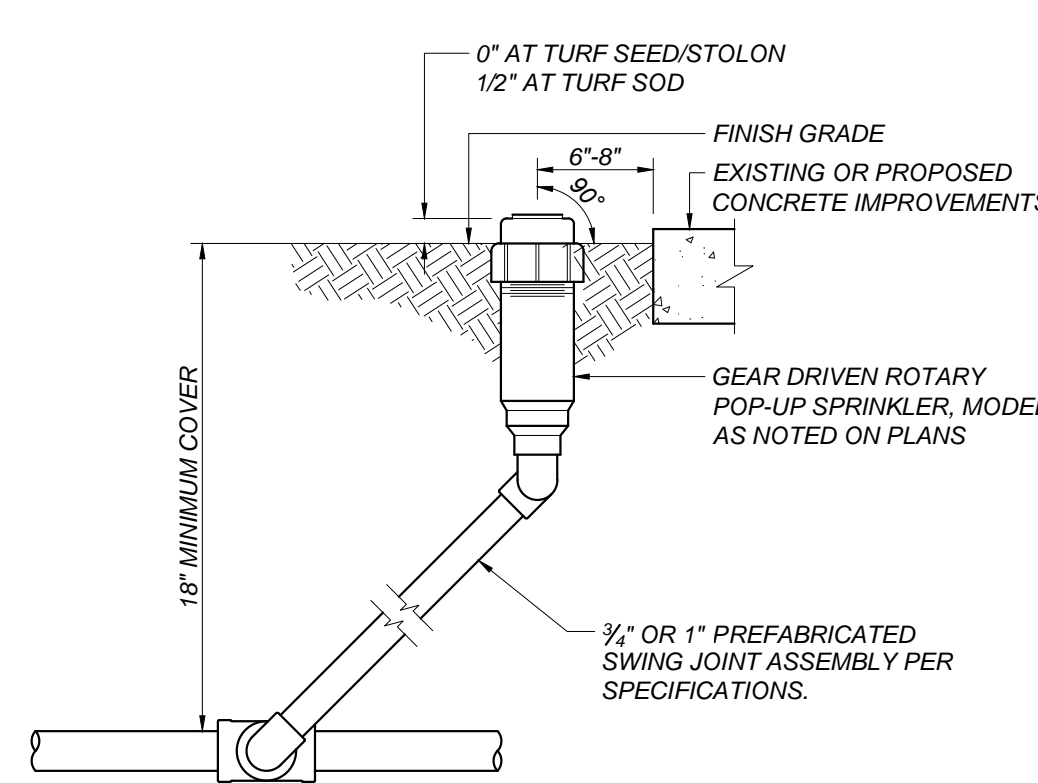
G
L103
2" AND LARGER GATE VALVE
NOT TO SCALE



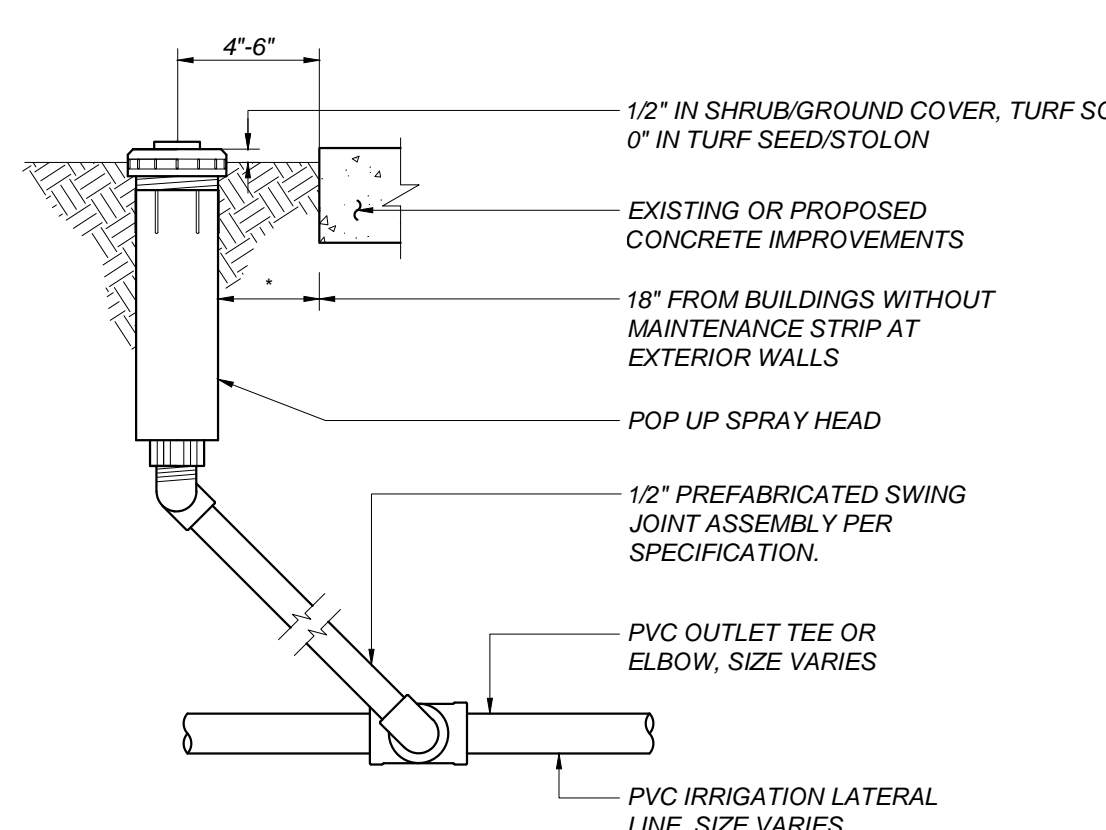
H
L103
QUICK COUPLER VALVE
NOT TO SCALE



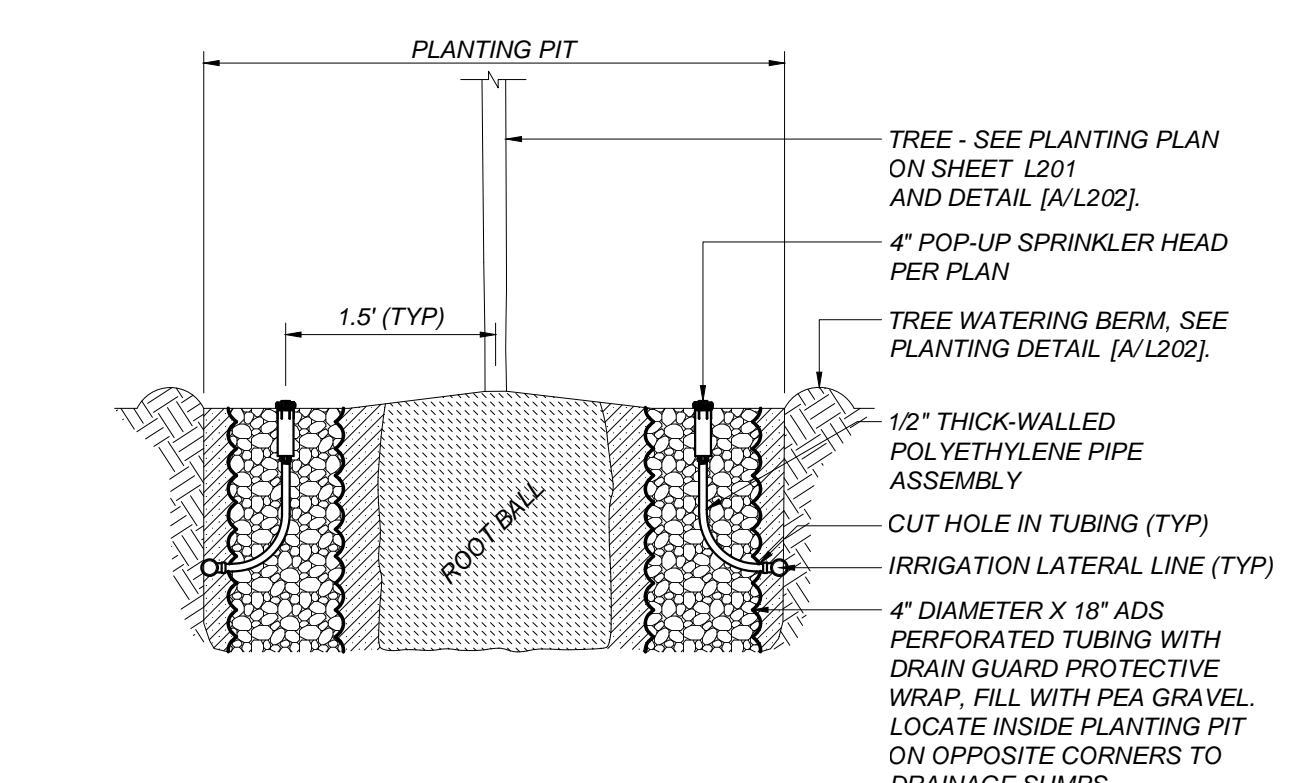
I
L103
REMOTE CONTROL VALVE - GLOBE
NOT TO SCALE



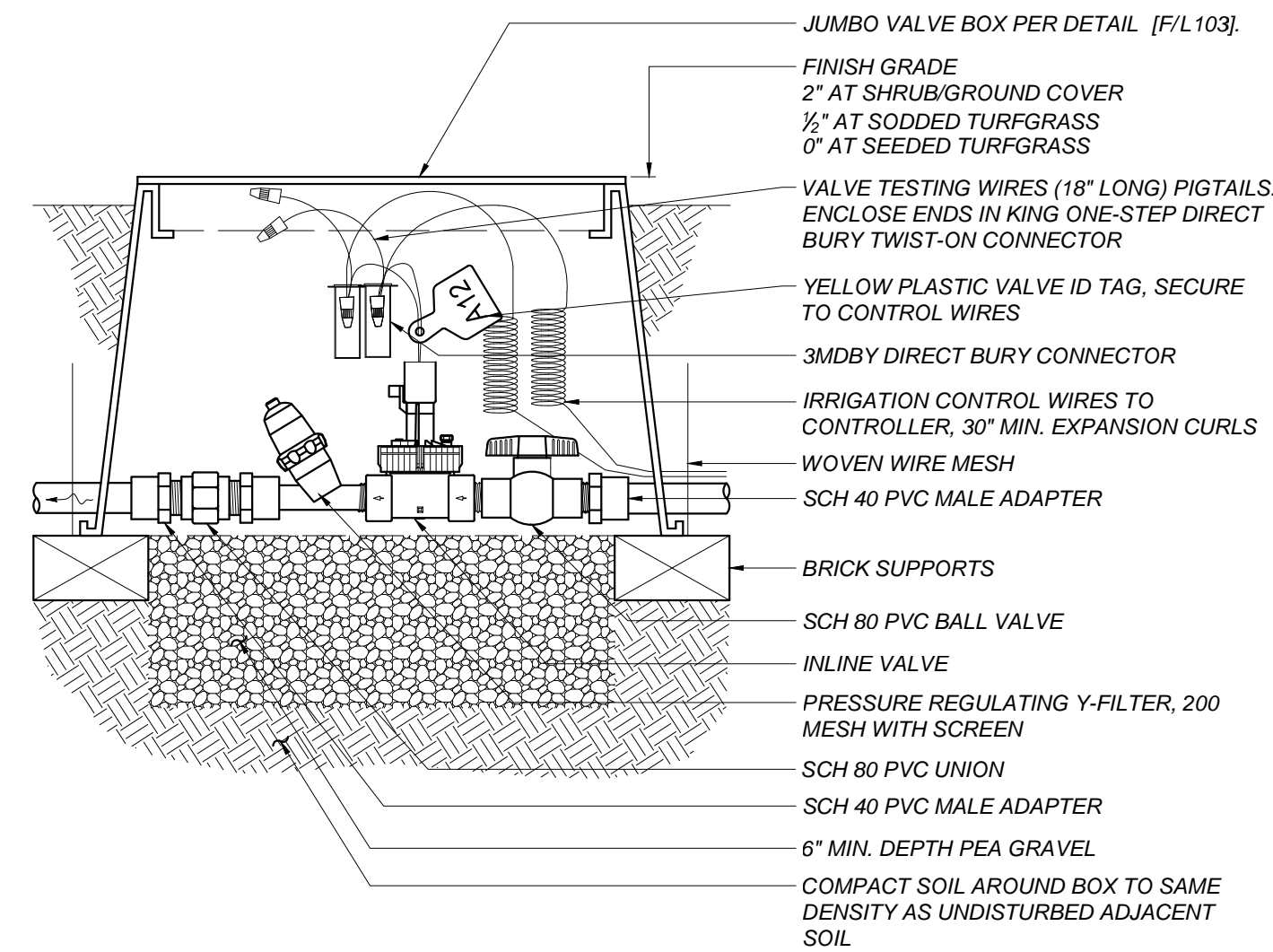
J
L103
POP-UP ROTOR
NOT TO SCALE



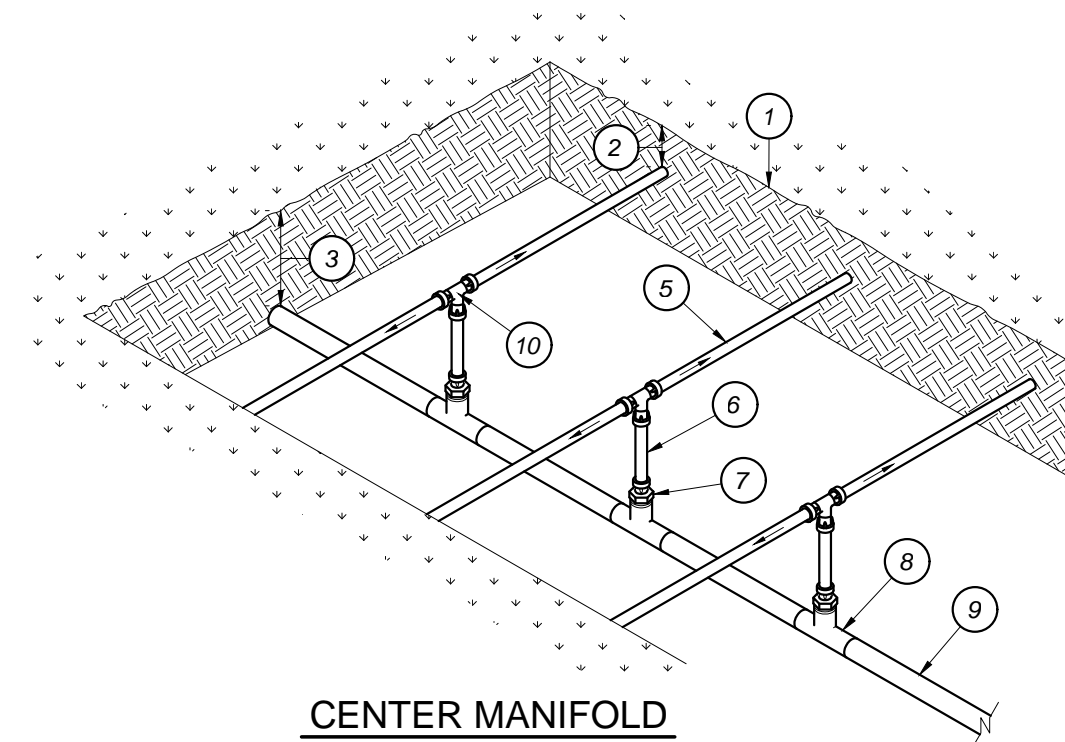
K
L103
POP-UP SPRAY
NOT TO SCALE



L
L103
TREE BUBBLERS
NOT TO SCALE

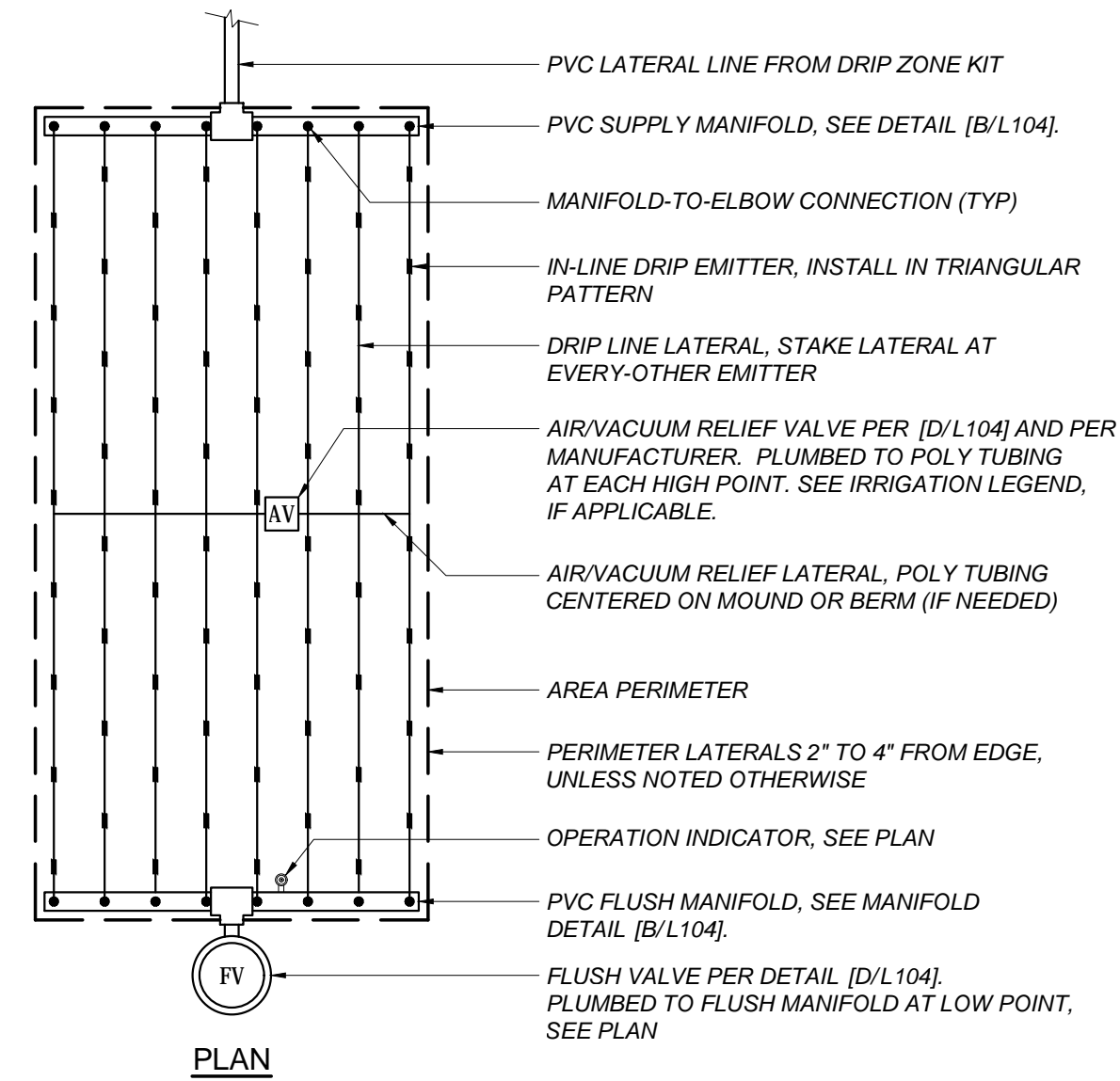


A
L104
DRIP ZONE ASSEMBLY
NOT TO SCALE

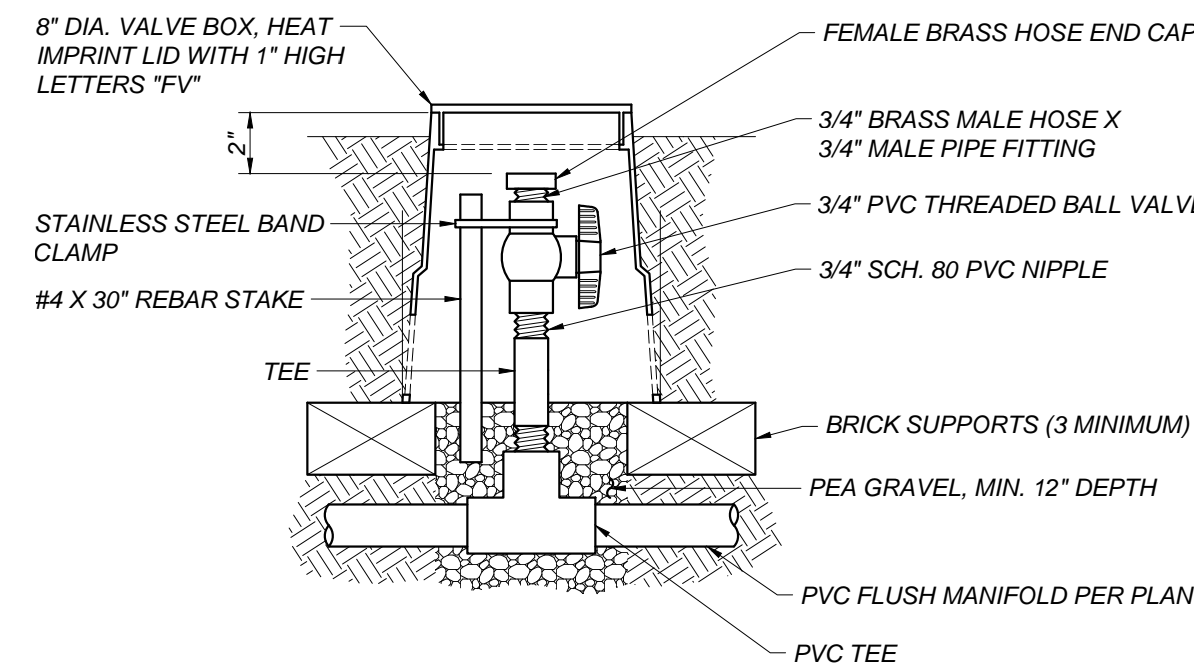


- LEGEND:**
1. FINISH GRADE
 2. DEPTH OF TUBING BELOW FINISHED GRADE - SEE LEGEND
 3. MIN. 12" DEPTH OF PVC SUPPLY / FLUSH MANIFOLD BELOW FINISHED GRADE
 4. ELBOW
 5. DRIPLINE LATERAL, SEE PLAN
 6. POLY TUBING, LENGTH AS NECESSARY
 7. MALE ADAPTER
 8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET
 9. SCH 40 PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT
 10. TEE

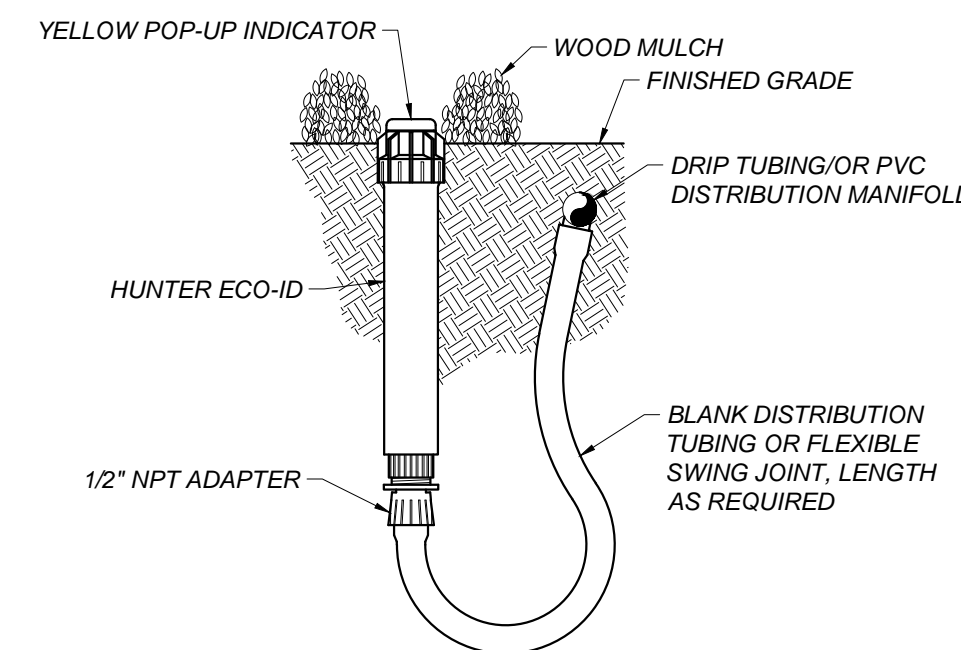
B
L104
DRIPLINE MANIFOLD
NOT TO SCALE



C
L104
DRIPLINE LAYOUT SCHEMATIC
NOT TO SCALE



D
L104
DRIPLINE FLUSH VALVE ASSEMBLY
NOT TO SCALE



E
L104
HUNTER ECO-INDICATOR
NOT TO SCALE

CLUB DRIVE

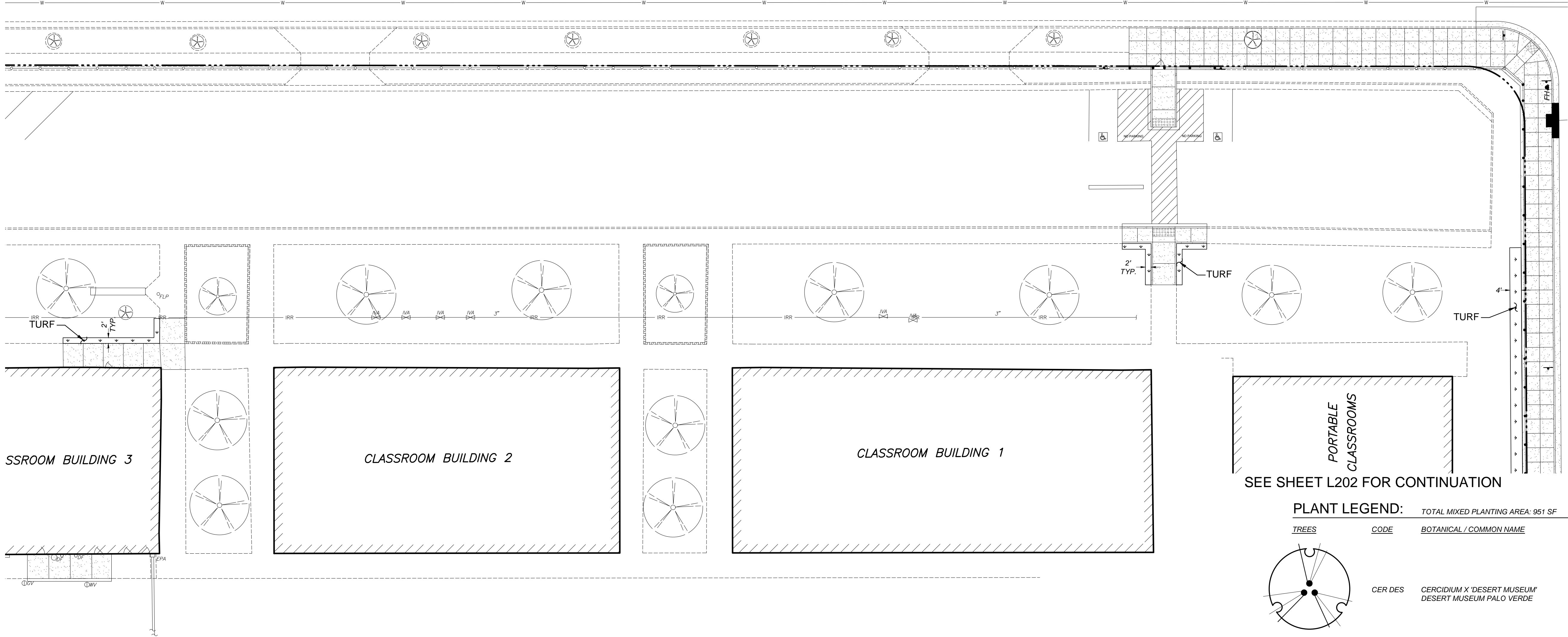
FOR DSA USE ONLY

CONTRACTOR SPECIAL PLANTING NOTES:

- AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.
- THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.
- ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES. CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.
- THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.

LANDSCAPE PLANTING BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF \$3,000 FOR THE REMOVAL AND REPLACEMENT OF EXISTING PLANTS/TURFGRASS AND/OR THE INSTALLATION OF NEW PLANTS/TURFGRASS WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR INSTALLATION.

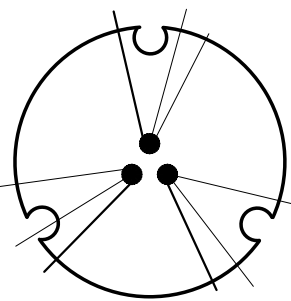


SEE SHEET L202 FOR CONTINUATION

PLANT LEGEND:

TOTAL MIXED PLANTING AREA: 951 SF SUNSET ZONE: 9

TREES	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
-------	------	-------------------------	------	-----------	-----	--------	---------



CER DES
CERCIDIUM X 'DESERT MUSEUM'
DESERT MUSEUM PALO VERDE

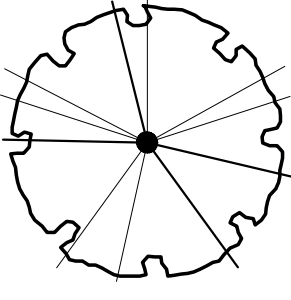
24"BOX

L

1

A/L202

MULTI-TRUNK FORM, DECIDUOUS
20-35' W



ULM DYN
ULMUS PARVIFOLIA 'DYNASTY'
DYNASTY LACEBARK ELM

24"BOX

L

1

A/L202

EVERGREEN, STANDARD FORM,
25-30' H X 25-30' W

SHRUBS



LAN LAV
LANTANA MONTEVIDENSIS 'LAVENDER SWIRL'
LAVENDER SWIRL TRAILING LANTANA

5 GAL

L

5

B/L202

8"-12" H X 3'-6" W



OLE LIT
OLEA EUROPAEA 'MONTRA'
LITTLE OLLIE® OLIVE

5 GAL

L

4

B/L202

EVERGREEN
4'-6" H X 4'-6" W



PHO ATO
PHORIDIUM TENAX 'ATROPURPUREUM COMPACTUM'
BRONZE NEW ZEALAND FLAX

5 GAL

L

6

B/L202

EVERGREEN PERENNIAL
6'-8" H X 6'-8" W



ROS COL
ROSMARINUS OFFICINALIS 'COLLINGWOOD INGRAM'
COLLINGWOOD INGRAM ROSEMARY

5 GAL

L

5

B/L202

EVERGREEN
2'-3" H X 4" W



SAL ALL
SALVIA 'ALLEN CHICKERING'
ALLEN CHICKERING SAGE

5 GAL

L

3

B/L202

3'-4" H X 3'-4" W

GRASSES



MUH REG
MUHLENBERGIA CAPILLARIS 'REGAL MIST'
PINK MUHLY

1 GAL

L

4

B/L202

3' H X 6' W



TUL VAR
TULBAGHIA VIOLACEA 'VARIEGATA'
STRIPED SOCIETY GARLIC

1 GAL

M

39

B/L202

PERENNIAL

GROUND COVERS



MULCH
WALK-ON WOOD MULCH

N/A

N/A

28 SF

SEE NOTE 18



TURF
'CELEBRATION' BERMUDAGRASS

SOD

M

4,321 SF

D/L202

TREE SIZE AND QUALITY STANDARDS

AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION) SHALL APPLY

CONTAINER SIZE	TYPES 1 & 2 SHADE TREES			TYPE 3 SMALL UPRIGHT TREES**			TYPE 4 SMALL SPREADING TREES***		
	MIN. CALIPER	MAX. CALIPER	TYPE 1 MIN./MAX. HEIGHT	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT
15 GALLON	0.75	2.0	7-10 FT	0.75	2.0	6-8 FT	0.75	2.0	4-8 FT
24" BOX	1.25	3.0	8-12 FT	1.25	3.0	8-10 FT	1.25	3.0	6-10 FT
36" BOX	1.75	3.5	10-16 FT	1.75	3.5	10-14 FT	1.75	3.5	7-12 FT
42" BOX	2.0	4.0	12-20 FT	2.0	4.0	12-18 FT	2.0	4.0	8-14 FT
48" BOX	2.5	5.0	14-26 FT	2.5	5.0	14-22 FT	2.5	5.0	9-16 FT

* TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.

** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES

*** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS

CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12"

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

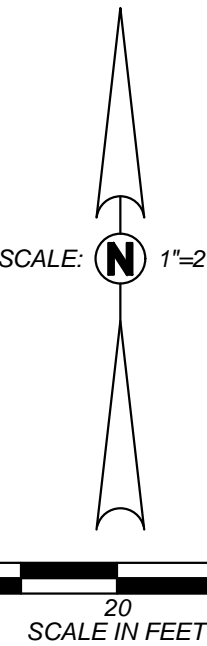
DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

David W. Briley, AIA
DAVID W. BRILEY, AIA 2787

LANDSCAPE SHADE CALCULATIONS			SHADING PER CALGREEN 5 106 12		
SITE SHADING - LANDSCAPE & HARDSCAPE			QUANTITY PROPOSED (SF)	PERCENT REQUIRED	SHADE AREA REQUIRED (SF)
LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS)			951	20	190
UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)			4,881	20	976
TOTAL SITE SHADE REQUIRED					1,166
PROVIDED SHADE TREES			PROVIDED SHADE AREA	NO. TREES	
VERY LARGE (40" dia = 1256 SF)			0	0	
LARGE (30" dia = 962 SF)			0	0	
MEDIUM (30" dia = 707 SF)			1,414	2	
SMALL (20" dia = 314 SF)			0	0	
TOTALS			1,414	2	
OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT					248



SEE SHEET L202
FOR PLANTING NOTES
AND DETAILS

811
Know what's below.
Call before you dig.

Blair, Church & Flynn
Consulting Engineers
455 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500



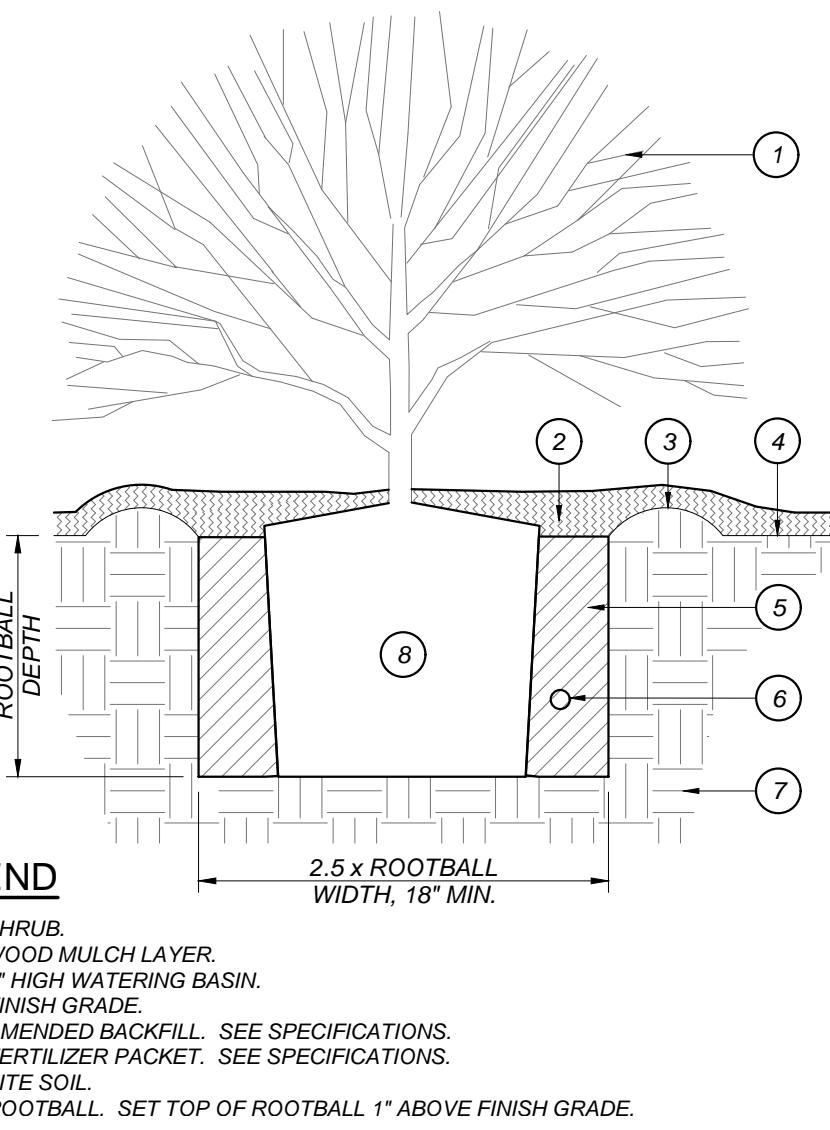
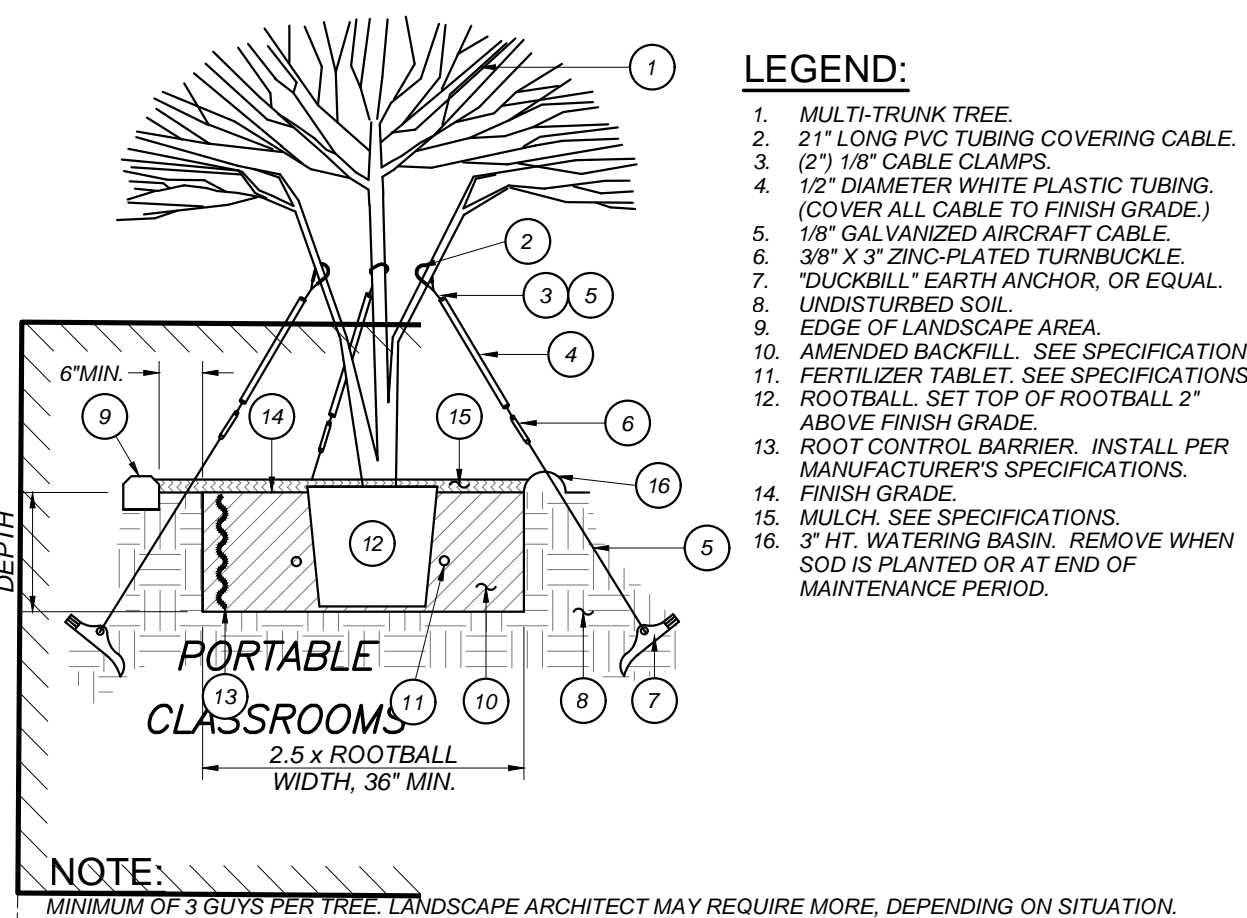
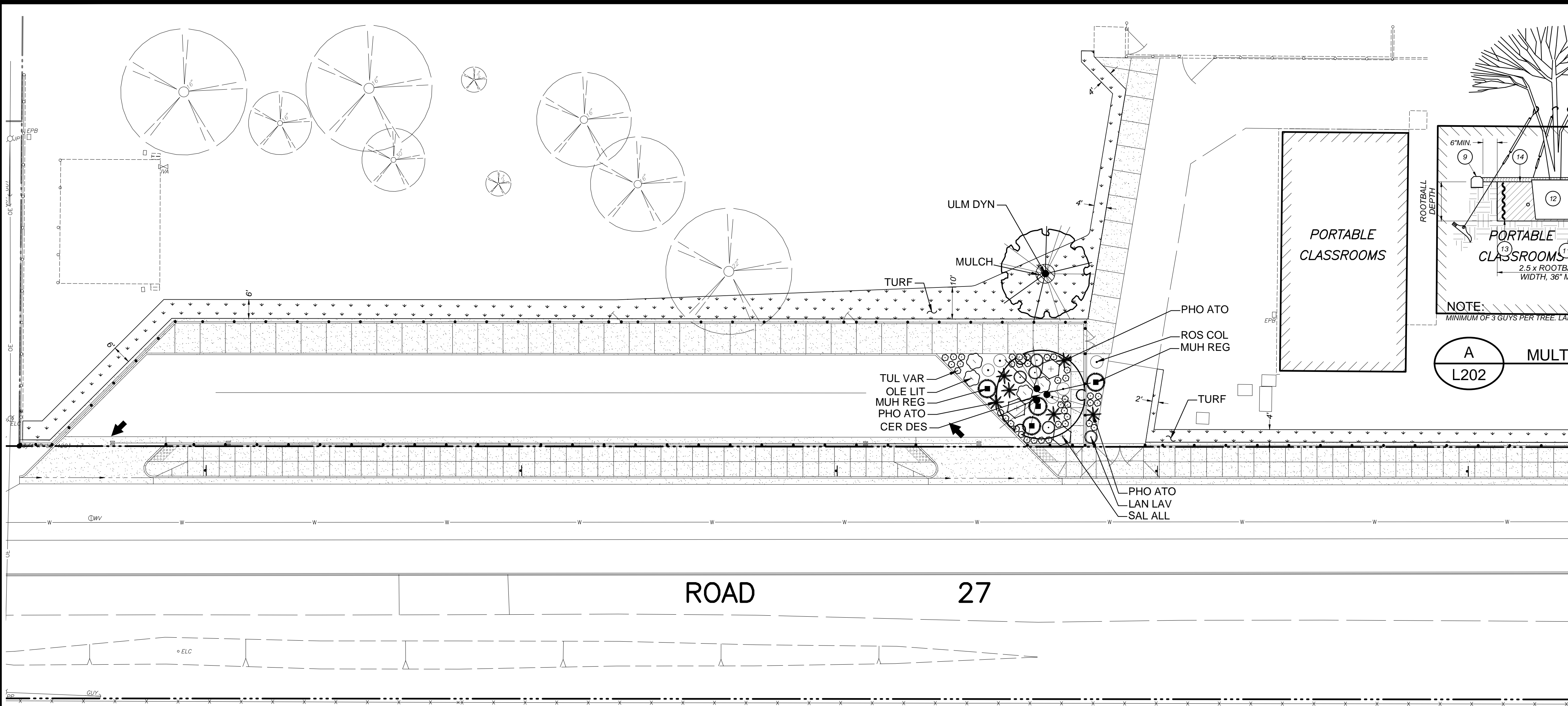
CONSULTANT
Blair, Church & Flynn
Consulting Engineers
455 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
PLANTING PLAN

CONSTRUCTION DOCUMENTS
DR. BY: S. DUNCAN
CH. BY: L. BADER
DATE: 3/8/2023
SCALE AS NOTED
L201



PLANT LEGEND:

TOTAL MIXED PLANTING AREA: 951 SF

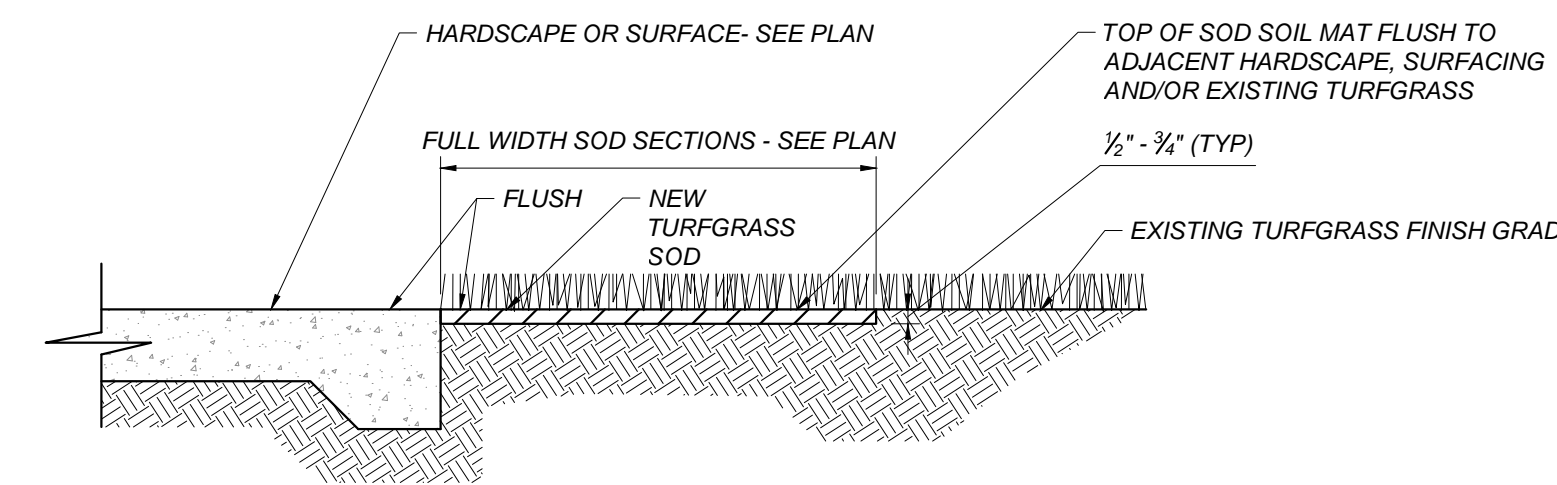
SUNSET ZONE: 9

PLANTING NOTES:

TREES	CODE	BOTANICAL / COMMON NAME	CONT.	WATER USE	QTY	DETAIL	REMARKS
	CER DES	CERCIDUM X 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE	24"BOX	L	1	A/L202	MULTI-TRUNK FORM, DECIDUOUS TRE. 20-35' W
	ULM DYN	ULMUS PARVIFOLIA 'DYNASTY' DYNASTY LACEBARK ELM	24"BOX	L	1	A/L202	EVERGREEN, STANDARD FORM, 25-30' H X 25-30' W
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
	LAN LAV	LANTANA MONTEVIDENSIS 'LAVENDER SWIRL' LAVENDER SWIRL TRAILING LANTANA	5 GAL	L	5	B/L202	8"-12" H X 3'-6" W
	OLE LIT	OLEA EUROPAEA 'MONTRA' LITTLE OLLIE® OLIVE	5 GAL	L	4	B/L202	EVERGREEN 4'-6" H X 4'-6" W
	PHO ATO	PHORMIUM TENAX 'ATROPURPUREUM COMPACTUM' BRONZE NEW ZEALAND FLAX	5 GAL	L	6	B/L202	EVERGREEN PERENNIAL 6'-8" H X 6'-8" W
	ROS COL	ROSMARINUS OFFICINALIS 'COLLINGWOOD INGRAM' COLLINGWOOD INGRAM ROSEMARY	5 GAL	L	5	B/L202	EVERGREEN 2'-3" H X 4' W
	SAL ALL	SALVIA 'ALLEN CHICKERING' ALLEN CHICKERING SAGE	5 GAL	L	3	B/L202	3'-4" H X 3'-4" W
GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
	MUH REG	MUHLBERGIA CAPILLARIS 'REGAL MIST' PINK MUHLY	1 GAL	L	4	B/L202	3' H X 6' W
	TUL VAR	TULBAGHIA VIOLACEA 'VARIEGATA' STRIPED SOCIETY GARLIC	1 GAL	M	39	B/L202	PERENNIAL
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT.	WATER USE	QTY	DETAIL	REMARKS
	MULCH	WALK-ON WOOD MULCH	N/A	N/A	28 SF		SEE NOTE 18
	TURF	'CELEBRATION' BERMUDAGRASS	SOD	M	4,321 SF	D/L202	

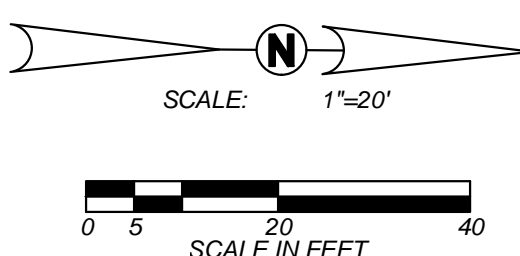
- IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
- ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.
- ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ANSI Z60.1).
- NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.
- PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.
- WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.
- ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.
- REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.
- INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
- THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.
- SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
- PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.
- PRIOR TO SOIL CONDITIONING, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING. ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET.
- UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
- OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
- AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.
- WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.
- INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.
- ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.

C L202 SHRUB AND GROUND COVER SPACING NOT TO SCALE



NOTE: IF THE EXISTING TURFGRASS FINISH GRADE IS HIGHER OR LOWER THAN THE NEW FINISH SURFACE, TRANSITION GRADE THE NEW SOD AT A MAXIMUM 1V:12H SLOPE

D L202 TURF SOD INSTALLATION NOT TO SCALE

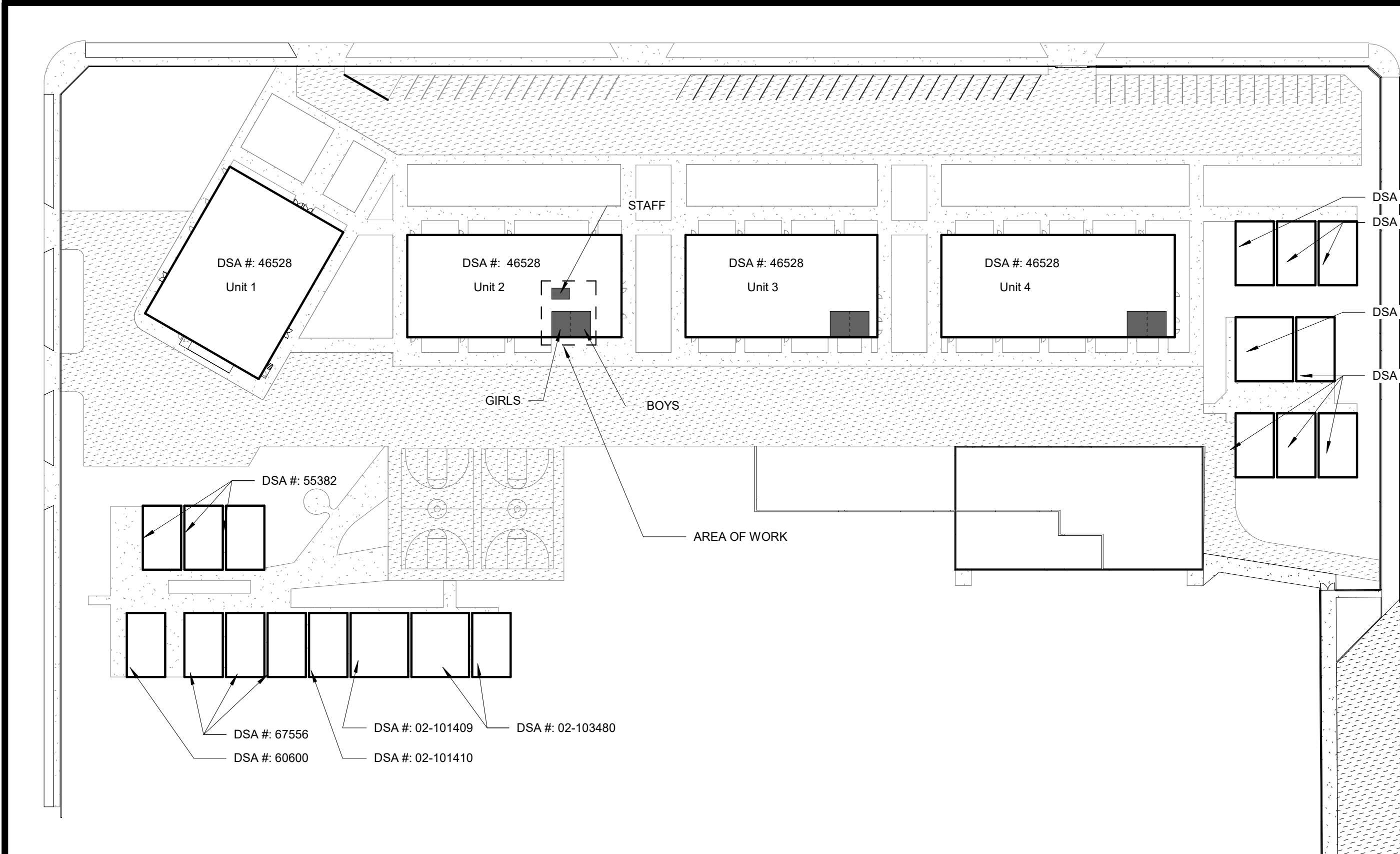


811 Know what's below. Call before you dig.

Blair, Church & Flynn Consulting Engineers 4551 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

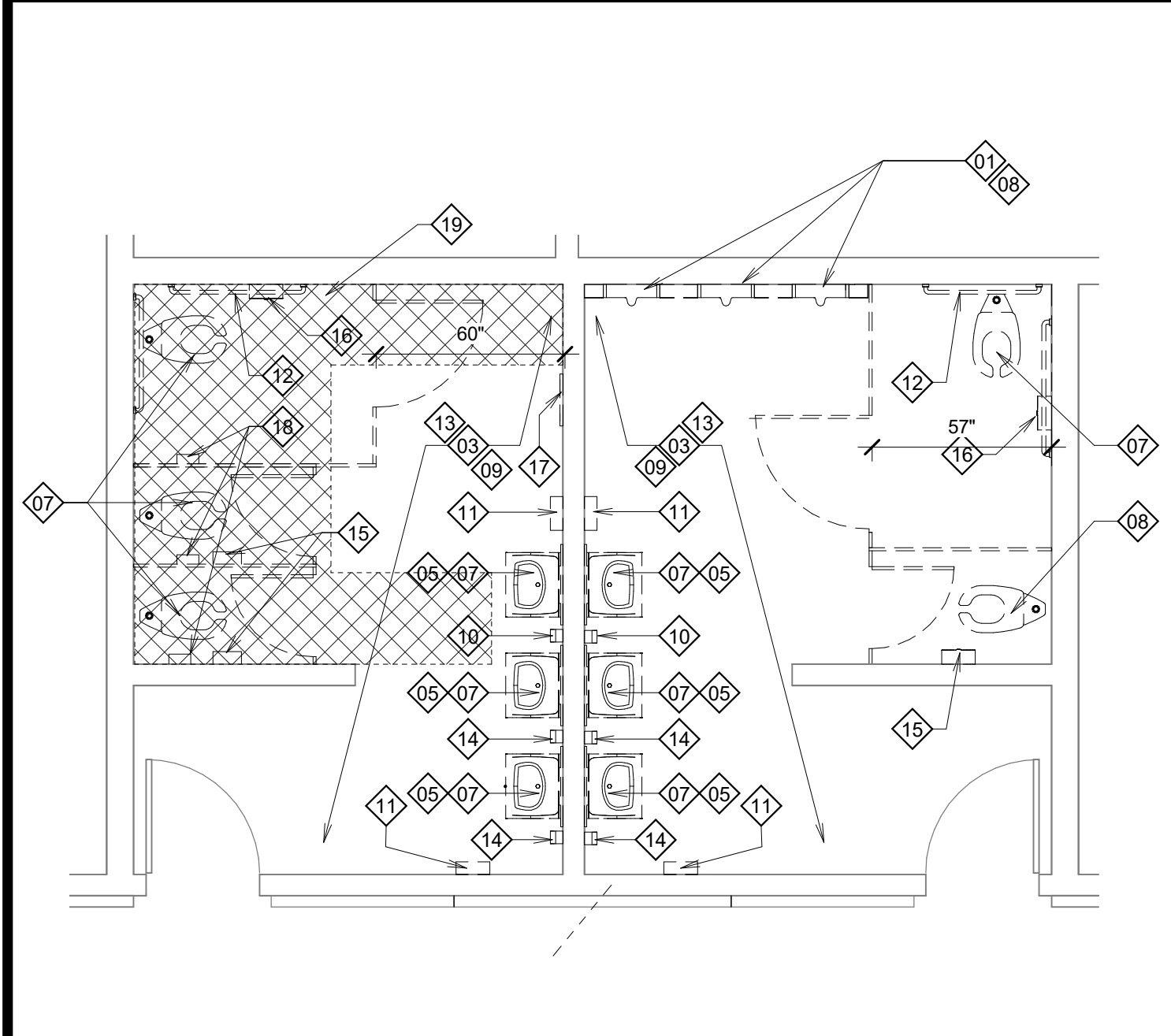


CONSULTANT	REF. & REV.	MADERA UNIFIED SCHOOL DISTRICT
Blair, Church & Flynn Consulting Engineers 4551 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS PLANTING PLAN
		CONSTRUCTION DOCUMENTS
		DR. BY: S. DUNCAN CH. BY: L. BADER DATE: 3/8/2023 SCALE AS NOTED
		L202



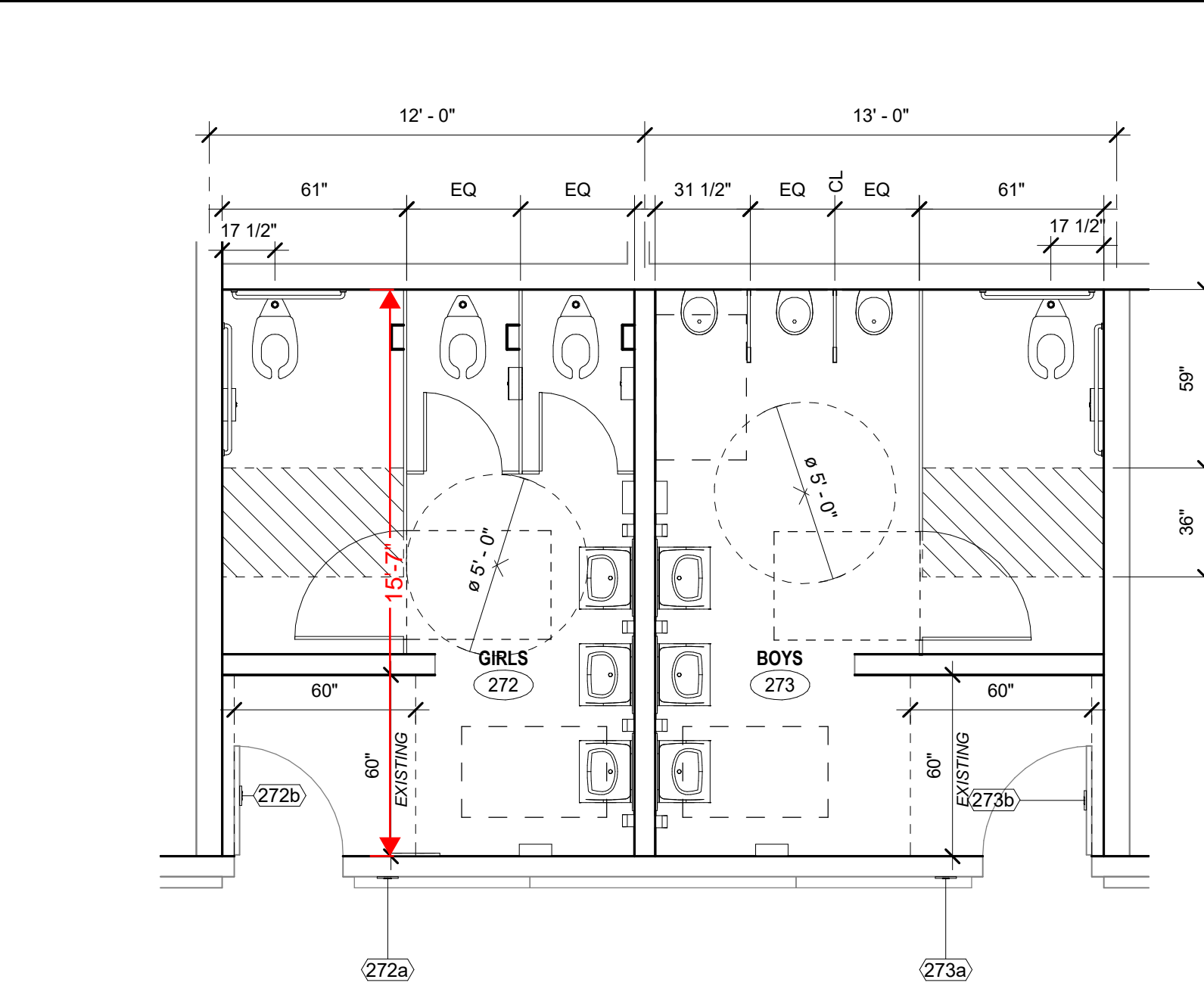
5
1" = 60'-0"

Regulatory- Site Plan



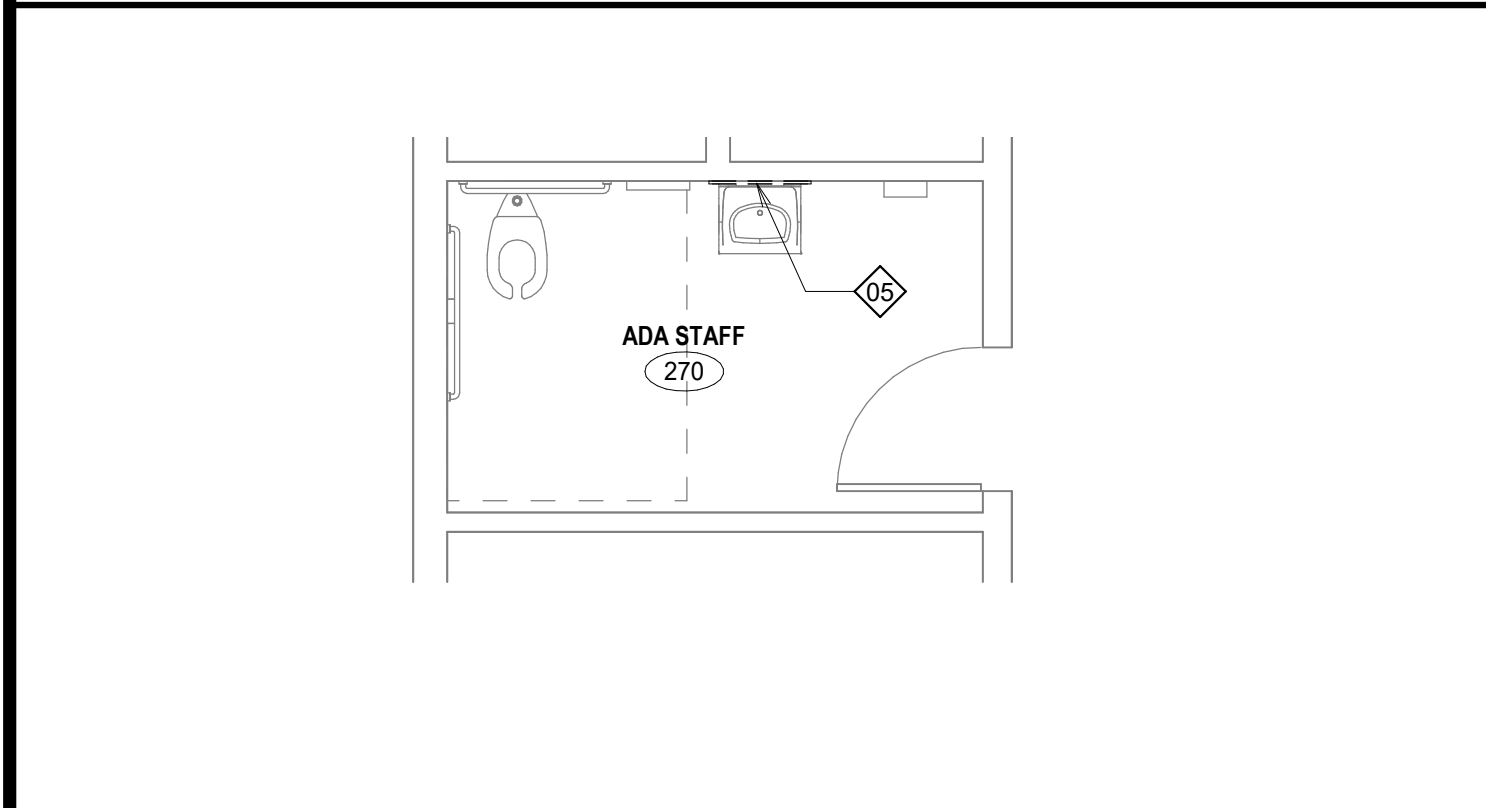
3
1/4" = 1'-0"

Demolition Floor Plan - Student Restrooms



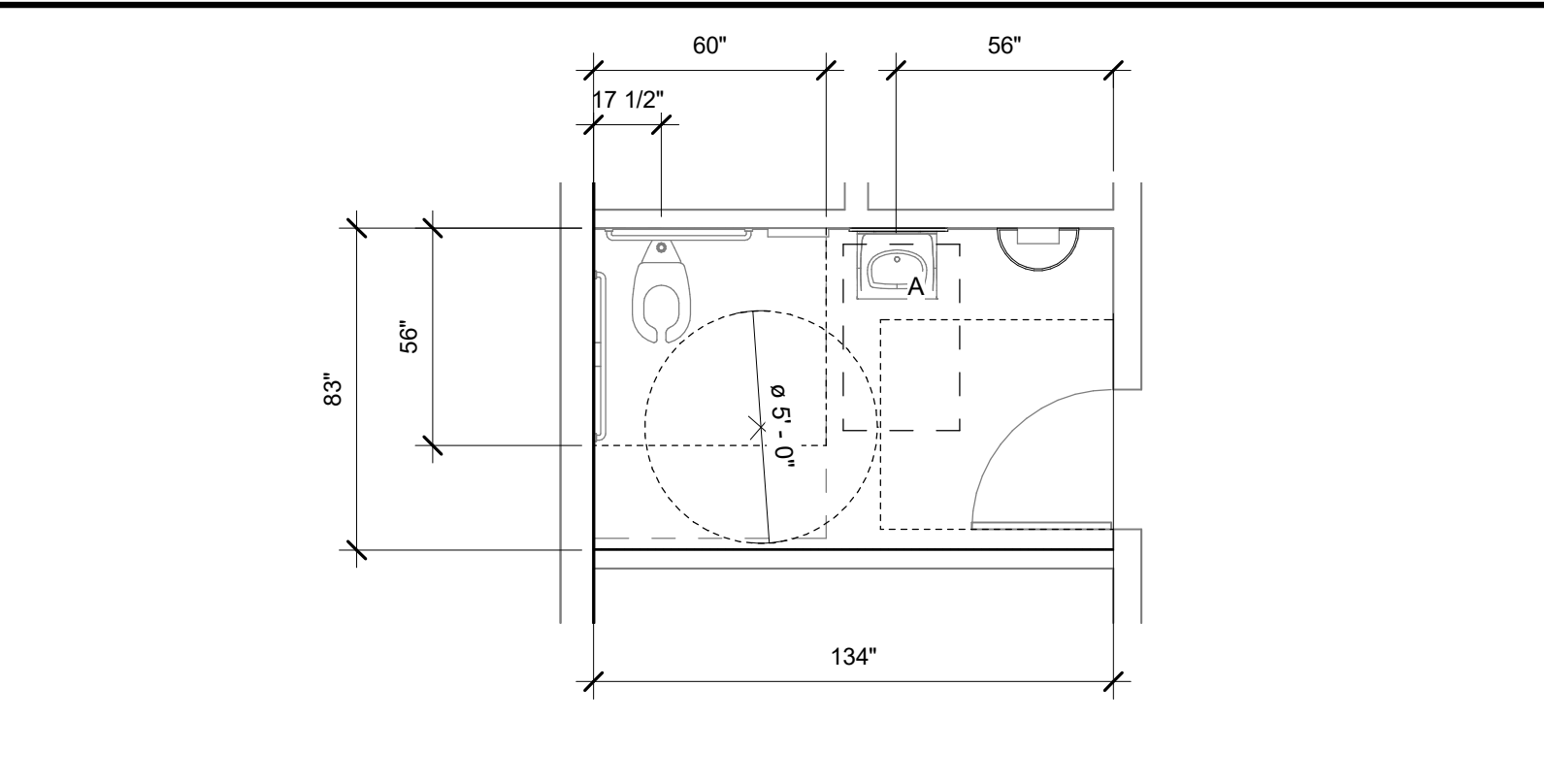
4
1/4" = 1'-0"

Enlarged Floor Plan - Student Restrooms



1
1/4" = 1'-0"

Demolition Floor Plan - Staff Restroom



2
1/4" = 1'-0"

Enlarged Floor Plan - Staff Restroom

DEMOLITION NOTES

- 01 NOT USED
- 02 SELECTIVE DEMOLITION, Remove and salvage Existing door for reinstallation. Fill, sand, and repaint frame for reinstallation of door with opposite swing
- 03 SELECTIVE DEMOLITION, Remove and Salvage Existing Flooring and base
- 04 NOT USED
- 05 SELECTIVE DEMOLITION, Remove and salvage (E) Mirror for reinstallation
- 06 SELECTIVE DEMOLITION, Remove and salvage (E) Mirror to owner
- 07 SELECTIVE DEMOLITION, Remove and salvage (E) plumbing fixture for reinstallation
- 08 SELECTIVE DEMOLITION, Remove and Dispose of (E) plumbing fixture
- 09 SELECTIVE DEMOLITION, Remove and Dispose of (E) Wall Tile and 3/4" Cement Plaster
- 10 SELECTIVE DEMOLITION, Remove and salvage soap dispenser to owner
- 11 SELECTIVE DEMOLITION, Remove and salvage (E) Paper Towel dispenser to owner
- 12 SELECTIVE DEMOLITION, Remove and salvage (E) Grab Bar for reinstallation
- 13 SELECTIVE DEMOLITION, Remove and dispose of (E) Toilet Partitions
- 14 SELECTIVE DEMOLITION, Remove and salvage soap dispenser for reinstallation
- 15 SELECTIVE DEMOLITION, Remove and salvage Toilet Paper Dispenser for reinstallation
- 16 SELECTIVE DEMOLITION, Remove and Dispose of Toilet Paper Dispenser
- 17 SELECTIVE DEMOLITION, Remove and salvage Sanitary Napkin Dispenser for reinstallation
- 18 SELECTIVE DEMOLITION, Remove and salvage Sanitary Napkin Disposal for reinstallation
- 19 SELECTIVE DEMOLITION, Saw Cut and remove slab, Coordinate Plumbing demo with Plumbing drawings

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room Designation
- Demolition Note Symbol

NOTES

- See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
- Remove materials, equipment, and finishes indicated by demolition key notes
- All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
- Coordinate removal of door hardware with HARDWARE in the specifications.
- Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
- Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
- Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
- Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
- When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121164 INC:
REVIEWED FOR
SS ☐ FLS ☒ ACS ☒
DATE: 03/21/2023

FOR DSA USE ONLY

C
No Scale

Demolition Legend

Signage Schedule							
Building	Sign Mark	Sign Material	Sign Type	Sign Copy Line 1	Mtg Height	Mtg Cond	Remarks
Unit 2	272b	A	2a	GIRLS	4' - 11"	5	
Unit 2	273b	A	2a	BOYS	4' - 11"	5	
Unit 2	273a	A	6a	BOYS	5' - 0"	2	-
Unit 2	272a	A	6a	GIRLS	5' - 0"	2	-

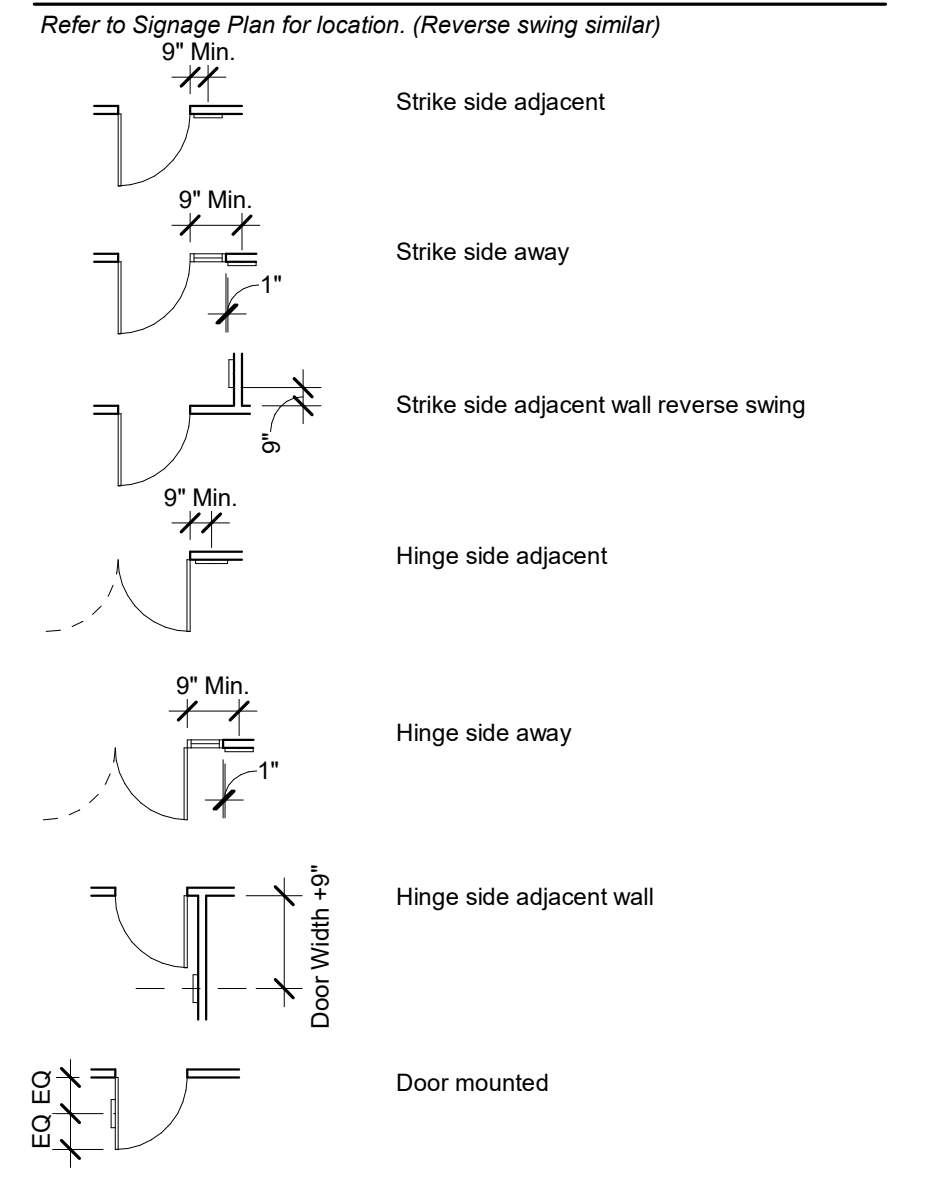
MOUNTING CONDITION

1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

SIGN MATERIAL
A = Acrylic

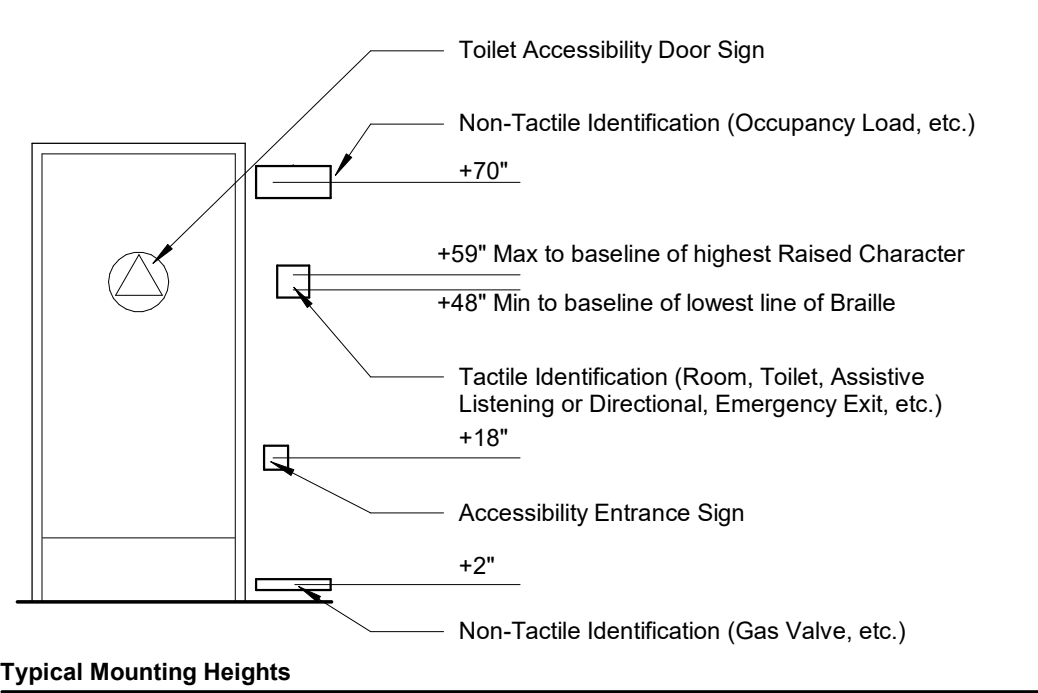
MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)



NOTES

- Refer to Specification Section IDENTIFYING DEVICES.
- Refer to Plan for Mounting Location.
- Verify Sign Copy with Owner prior to fabrication, "*" indicates a blank space
- For IDENTIFYING DEVICES, Signage Dimensions, refer to detail 2 X/A101 Typ



Typical Mounting Heights

Scale: N.T.S.



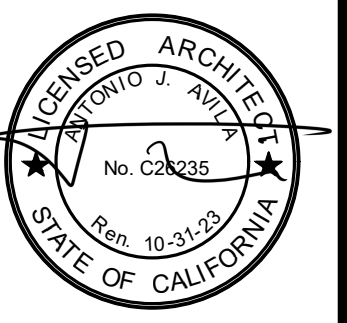
Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 300
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

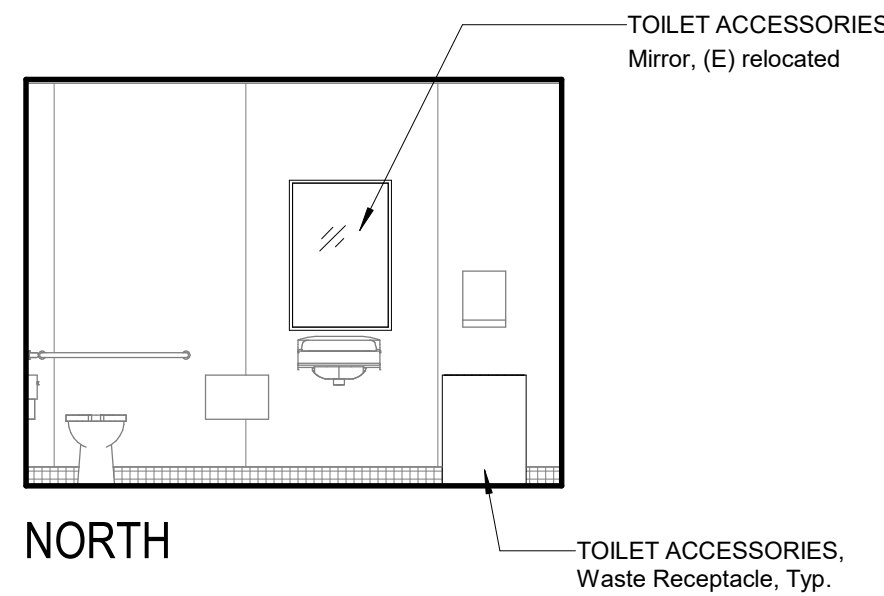
REGISTERED PROFESSIONAL ENGINEER
PLANE, R., B.A.D.P.
No. 47,033
CIVIL
STATE OF CALIFORNIA
#47-22
Date Signed:

CONSULTANT	REF. & REV.	MADERA UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 300 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		BERENDA ELEMENTARY SCHOOL BUS DROP-OFF AND ADA IMPROVEMENTS DEMOLITION AND ENLARGED FLOOR PLAN	CONSTRUCTION DOCUMENTS DR. BY: S. DUNCAN CH. BY: S. JUE DATE: 03/20/2022 SCALE AS NOTED A/A100

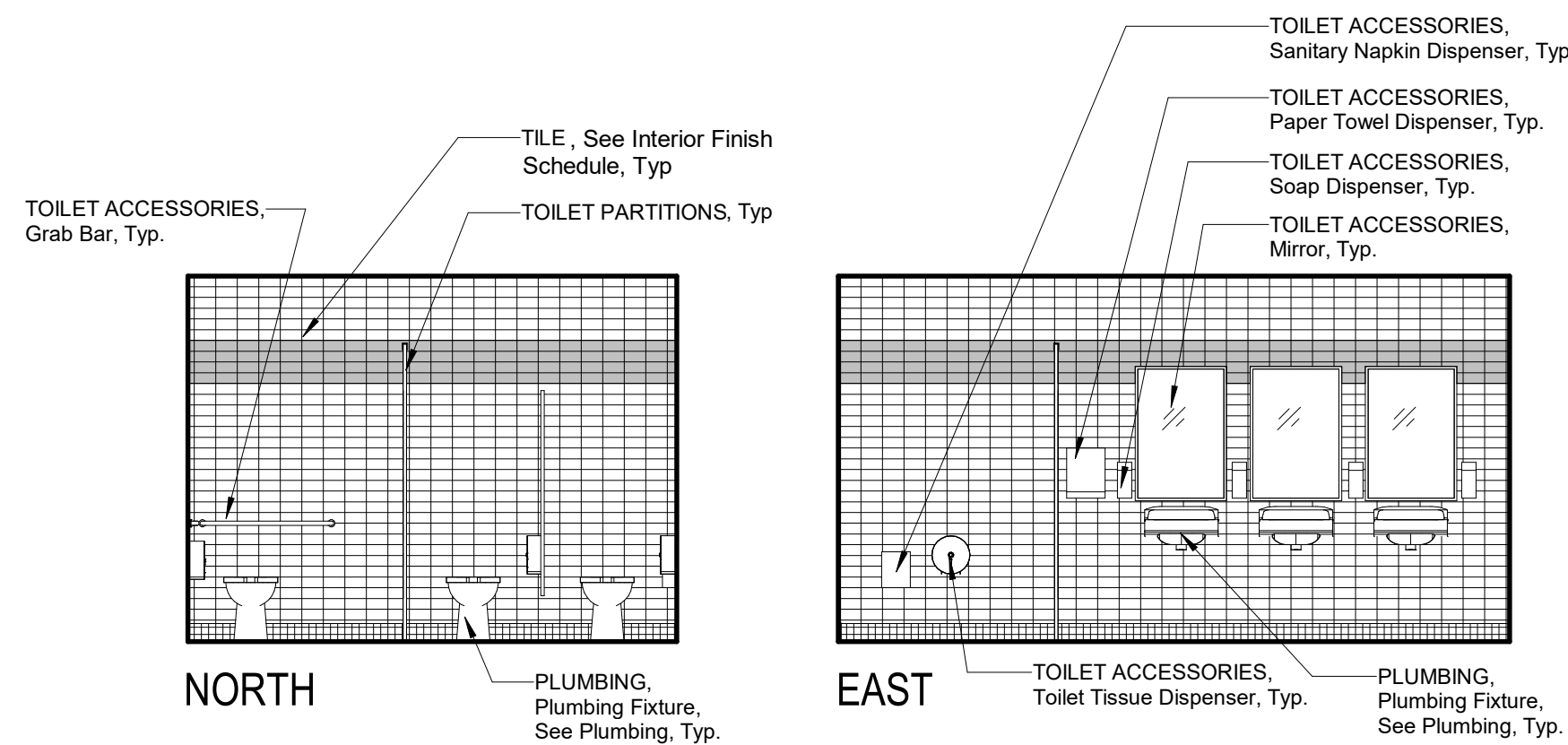
darden architects
790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com

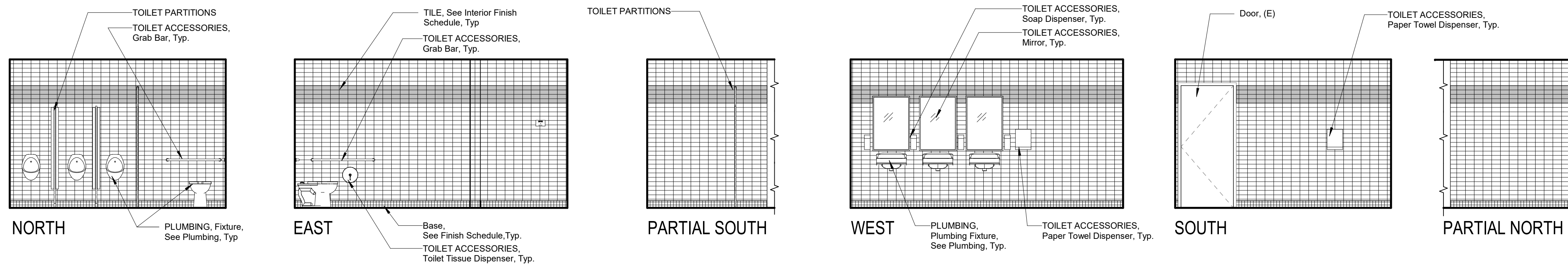




270 ADA STAFF



272 GIRLS



273 BOYS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121164 INC:
REVIEWED FOR
SS ☐ FLS ☒ ACS ☒
DATE: 03/21/2023

FOR DSA USE ONLY

SYMBOLS

	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
	Equipment Item No. Refer to Equipment Schedule.
	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
	FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
	ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Outlet
	ELECTRICAL, Light Switch
	ELECTRICAL, Fire Alarm Device
	ELECTRICAL, Volume Control
	ELECTRICAL, Television Outlet
	MECHANICAL, Thermostat
	PLUMBING, Hose Bib
	ELECTRICAL, Data Outlet
	ELECTRICAL, Microphone Outlet
	ELECTRICAL, Intrusion Sensor
	ELECTRICAL, Motion Sensor
	ELECTRICAL, Telephone Outlet

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

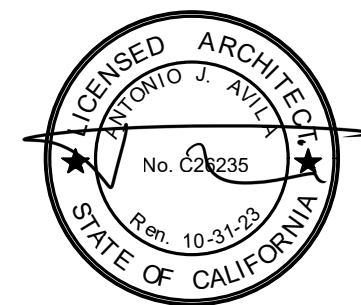
- All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
- Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
- Locate and mount TOILET ACCESSORIES and PLUMBING per detail Unless Noted Otherwise. 1 Typ
X/A101
- Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail Unless Noted Otherwise. 4 Typ
X/A101
- Provide Backing for TOILET ACCESSORIES, Grab Bars per detail Unless Noted Otherwise. 3 Typ
X/A101
- Locate and mount IDENTIFYING DEVICES per detail Unless Noted Otherwise. 2 Typ
X/A101

	CT-2
	CT-3

F18 Interior Elevation legend

No Scale

darden ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051



Architect

811
Know what's below.
Call before you dig.

Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 300
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 300
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS

DR. BY: S. DUNCAN
CH. BY: S. JUE
DATE: 03/20/22
SCALE: AS NOTED
A/A601

Offset Framing Anchors to avoid nail interference

ROUGH CARPENTRY, Wood, Studs @ 16" o.c. Unless Otherwise Noted, See Structural.

ROUGH CARPENTRY, Wood, Blocking, 4"x6". Fasten with Metal Framing Anchors, Simpson A34 @ all corners.

Verify height required

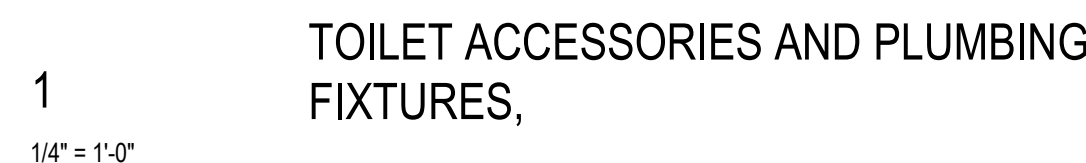
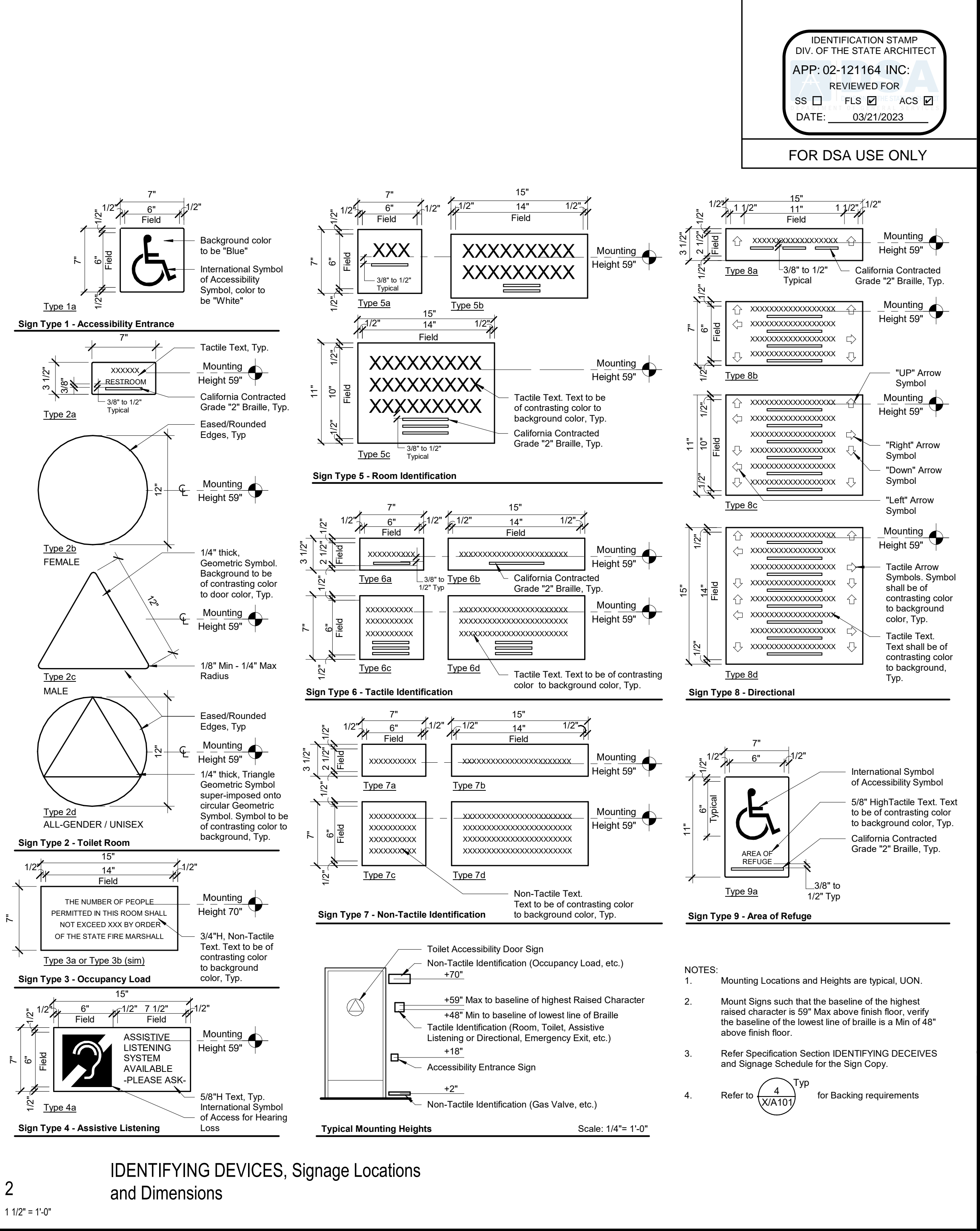
Fin. Flr.

CONDITION @ WOOD FRAMING

NOTE: Blocking for IDENTIFYING DEVICES, may be 2" x 6"

METAL FRAMING / ROUGH CARPENTRY, Backling Detail

1" = 1'-0"



PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE						
TYPE	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
U-1	URINAL ADA	2"	1-1/2"	3/4"	-"	KOHLER K-5452-ET-0 "DEXTER" 0.125 GPF, WALL-HUNG, WASHOUT URINAL WITH STRAINER, URN ZER6003AV-ULF-CPM AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, SENSOR OPERATED, BATTERY POWERED, 0.125 GPF AUTOMATIC FLUSH VALVE WITH MANUAL OVERRIDE, AND JAY R. SMITH 637 FLOOR-MOUNTED SUPPORT CARRIER WITH BOTTOM BEARING PLATE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. COLOR: WHITE.
FD-1	FLOOR DRAIN	2"	1-1/2"	1/2"	-"	"JAY R. SMITH" MODEL SERIES S2005Y-A05SS-, 5" DIAMETER, VANDAL PROOF TRAP PRIMER.
TP-1	TRAP PRIMER	-"	-"	1/2"	-"	PRECISION PLUMBING PRODUCTS MODEL P1-500 PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION, PROVIDE 12"x12" STAINLESS STEEL ACCESS DOOR WITH CYLINDER LOCK.

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
5. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
6. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
7. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
8. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
9. MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP

MD

PP

E

- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP

MD

PP

E

- OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE APPROVAL (OPM #) # 0043-13.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
ARCHITECT / ARCHITECTURAL	ARCH	
@	AT	
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
Q	CENTER LINE	
CONTINUATION	CONT	
	CUBIC FEET PER HOUR	CFH
Ø	DIAMETER	DIA
DOWN	DN	
DRAWING	DWG	
ELBOW	ELL	
ELECTRICAL	ELEC	
EXISTING	(E)	
FEET	FT	
FLOOR	FLR	
FLOW LINE	FL	
GALLON	GAL	
GALLONS PER HOUR	GPH	
GALLONS PER MINUTE	GPM	
GAUGE	GA	
INSIDE DIAMETER	ID	
INVERT ELEVATION	I.E.	
MAXIMUM	MAX	
MINIMUM	MIN	
NEW	(N)	
NOT IN CONTRACT	NIC	
NOT TO SCALE	NTS	
#	NUMBER	NO.
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	UNDER GROUND	U/G
	WATER COLUMN	WC
	WITH	W/
	WITHOUT	W/O
A	COMPRESSED AIR	A
AV	ACID VENT	AV
AW	ACID WASTE	AW
○	ACID VENT RISER	AVR
○	ACID VENT THRU ROOF	AVTR
CD	CONDENSATE DRAIN	CD
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
HPG	HIGH PRESSURE GAS	HPG
ICW	INDUSTRIAL COLD WATER	ICW
LPG	LIQUIFIED PETROLEUM GAS	LPG
F	FIRE PROTECTION LINE	

SYMBOL	ITEM	ABBR.
— RWL —	RAIN WATER LEADER	RWL
— OD —	OVERFLOW DRAIN	OD
— SD —	STORM DRAIN	SD
—	SOIL or WASTE	S or W
— MA —	MEDICAL AIR	MA
— O ₂ —	OXYGEN	O ₂
— VAC —	VACUUM	VAC
— — — — —	VENT	V
○	VENT RISER	VR
○	VENT THRU ROOF	VTR
— ◇ —	CLEANOUT TO GRADE	COTG
+++++	DEMOLITION	DEMO
— — — — —	EXISTING PIPING	
— ◇ —	FLOOR CLEANOUT	FCO
— T —	HOSE BIBB	
— ○ —	PIPING TURN UP	
— ⊙ —	PIPING TURN DOWN	
— ⊞ —	PIPING CAP	
— X —	POINT OF CONNECTION TO EXISTING	POC
— ↗ —	ANGLE VALVE	
— ▽ —	BALANCE VALVE	
— ○ —	BALL VALVE	
— N —	CHECK VALVE	
— ▷ —	CONCENTRIC REDUCER	
— ⌘ —	TWO-WAY CONTROL VALVE	
— ▽ —	PLUG VALVE	
— ⌘ —	PRESSURE REDUCING VALVE	
— ⊗ —	SHUT-OFF VALVE IN BOX	SOV
— ⊗ —	SHUT-OFF VALVE	SOV
— ⌘ —	THERMOSTATIC MIXING VALVE	
— Δ —	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
— I —	UNION	
— I —	WALL CLEANOUT	WCO
— N —	"Y" TYPE STRAINER	
Ⓟ	PRESSURE GAUGE	
Ⓣ	TEMPERATURE GAUGE	
①	KEYNOTE	
WC-1	NEW FIXTURE TAG EXAMPLE: WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE)	
2 P800	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P800	
3 P300	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P300	

PLUMBING SHEET INDEX

- P001 PLUMBING SCHEDULE, LEGEND, AND NOTES
- P100 PLUMBING SITE PLAN



NET POSITIVE
consulting
engineers

www.NPCeng.com
project no. 1291

Blair, Church & Flynn
Consulting Engineers
4851 Clovis Avenue,
Suite 300
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

CONSULTANT

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
PLUMBING SCHEDULE,
LEGEND, AND NOTES

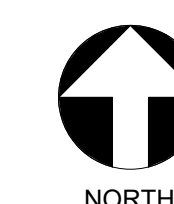
CONSTRUCTION DOCUMENTS

DR. BY: S. DUNCAN,
CH. BY: S. JUE
DATE: 05/2022
SCALE AS NOTED

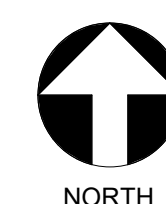
P001



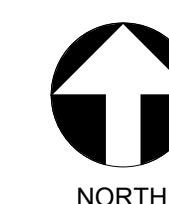
- 1 (E) FIXTURE TO BE REMOVED AND SALVAGED
FOR REINSTALLATION.
- 2 ALL ASSOCIATED PLUMBING LINES TO BE
REMOVED AND CAPPED BACK TO MAINS.
- 3 (E) SEWER AND VENT LINES TO REMAIN.
- 4 (E) PLUMBING LINES TO REMAIN.
- 5 (E) CW BRANCH TO BE REMOVED AND CAPPED
AT MAIN.
- 6 MODIFY (E) S & V LINES AS NECESSARY TO
ACCOMMODATE REPOSITIONED FIXTURE.
- 7 (E) CW, S & V LINES TO BE MODIFIED AS
NECESSARY TO ACCOMMODATE (N) FIXTURE.
- 8 4" S, 2" V & 1" CW TO WATER CLOSET.
- 9 2" S, 1-1/2" V, 3/4" CW FOR URINALS.
- 10 2" S w/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER
CONNECTION FOR FLOOR DRAIN
- 11 1/2" CW TO TRAP PRIMER.
- 12 POC, (N) 1-1/2" CW TO (E) 2".
- 13 POC, (N) 2" VENT TO (E) VENT MAIN. FIELD
VERIFY LOCATION OF (E) MAIN PRIOR TO
COMMENCEMENT OF WORK.
- 14 POC, (N) 4" S TO (E) 4" S.
- 15 POC, (N) 2" S TO (E) 2" S.
- 16 (E) FIXTURE TO BE REMOVED AND DISPOSED OF.
- 17 (E) FIXTURE TO BE REINSTALLED.
- 18 CAP 1" CW ABOVE CEILING.
- 19 CAP 4" S BELOW GRADE.
- 20 (N) 4" COTG.
- 21 (E) FLOOR DRAIN TO BE RELOCATED, REMOVE
(E) VENT LINES BELOW GRADE AND CAP ABOVE
CEILING. (E) SEWER LINE TO BE MODIFIED AS
SHOWN IN REMODEL PLAN.



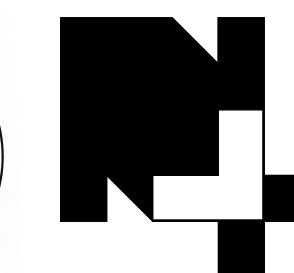
1	PARTIAL PLUMBING SITE PLAN
1" = 60'-0"	



3	ENLARGED DEMO PLUMBING PLAN - STUDENT & STAFF RESTROOMS
1/4" = 1'-0"	



4	ENLARGED PLUMBING PLAN - STUDENT & STAFF RESTROOMS
1/4" = 1'-0"	



NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1291



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93611
Tel (559) 326-1400
Fax (559) 326-1500

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
PLUMBING SITE PLAN

CONSTRUCTION DOCUMENTS	
DR. BY: <u>S. DUNCAN</u>	P100
CH. BY: <u>S. JUE</u>	
DATE: <u>8/5/2022</u>	

ELECTRICAL COMPONENT ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE ANCHORED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16, SECTION 13.3 AS DEFINED IN ASCE 7-16, SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM SHALL BE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

THE ELECTRICAL DISTRIBUTION SYSTEM IS DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS. WHEN A DETAIL IS NOT PROVIDED ON THE PLANS, THE ELECTRICAL DISTRIBUTION SYSTEM SHALL COMPLY WITH OSHPD PRE-APPROVAL #OPM-0052-13 (B-LINE).

ELECTRICAL GENERAL NOTES:

- 1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2019
CALIFORNIA ELECTRICAL CODE	2019
NON RESIDENTIAL CEC ENERGY STANDARDS	2019

- 2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.

- 4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.

- 5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.

- 6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.

- 7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.

- 8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.

- 9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.

- 10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 30 4W PER CEC 110.26.

- 11. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 30 4W PER CEC 110.26.

- 12. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.

- 13. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.

- 14. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.

- 15. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.

- 16. PATH OF TRAVEL LIGHTING TO THE PUBLIC WAY OR DISPERSAL AREA SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE.

- 17. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.

- 18. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.

- 19. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.

- 20. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.

- 21. PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.

- 22. CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.

- 23. CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.

- 24. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.

- 25. ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12", AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT, METALLIC WARNING TAPE AT 12", AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.

- 26. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.

- 27. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.

- 28. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.

- 29. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.

- 30. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.

- 31. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.

- 32. INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.

- 33. ALL LOW VOLTAGE EQUIPMENT SHALL BE DEENERGIZED PRIOR TO DEMO WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LIVE EQUIPMENT.

ELECTRICAL SYMBOLS SCHEDULE:

	POLE WITH AREA LUMINAIRE	
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	WIRING BELOW GRADE	REFER TO DETAIL 2/E201, 1" C. CONDUIT MIN.
(E)	"EXISTING"	
(N)	"NEW"	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121164 INC:
REVIEWED FOR
SS ☐ FLS ☒ ACS ☒
DATE: 03/21/2023

FOR DSA USE ONLY



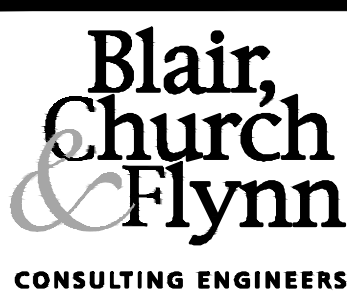
Know what's below.
Call before you dig.



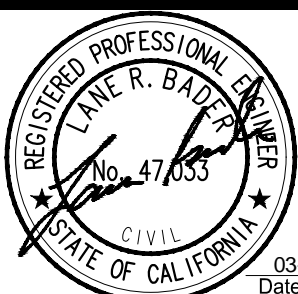
REGISTERED PROFESSIONAL ENGINEER
R. J. HARDIN
NO. 9125
ELECTRICAL
STATE OF CALIFORNIA



Hardin-Davidson
Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax



Blair,
Church
& Flynn
CONSULTING ENGINEERS



REGISTERED PROFESSIONAL ENGINEER
LANE R. BADGER
NO. 47853
CIVIL
STATE OF CALIFORNIA

CONSULTANT

Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-4990

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

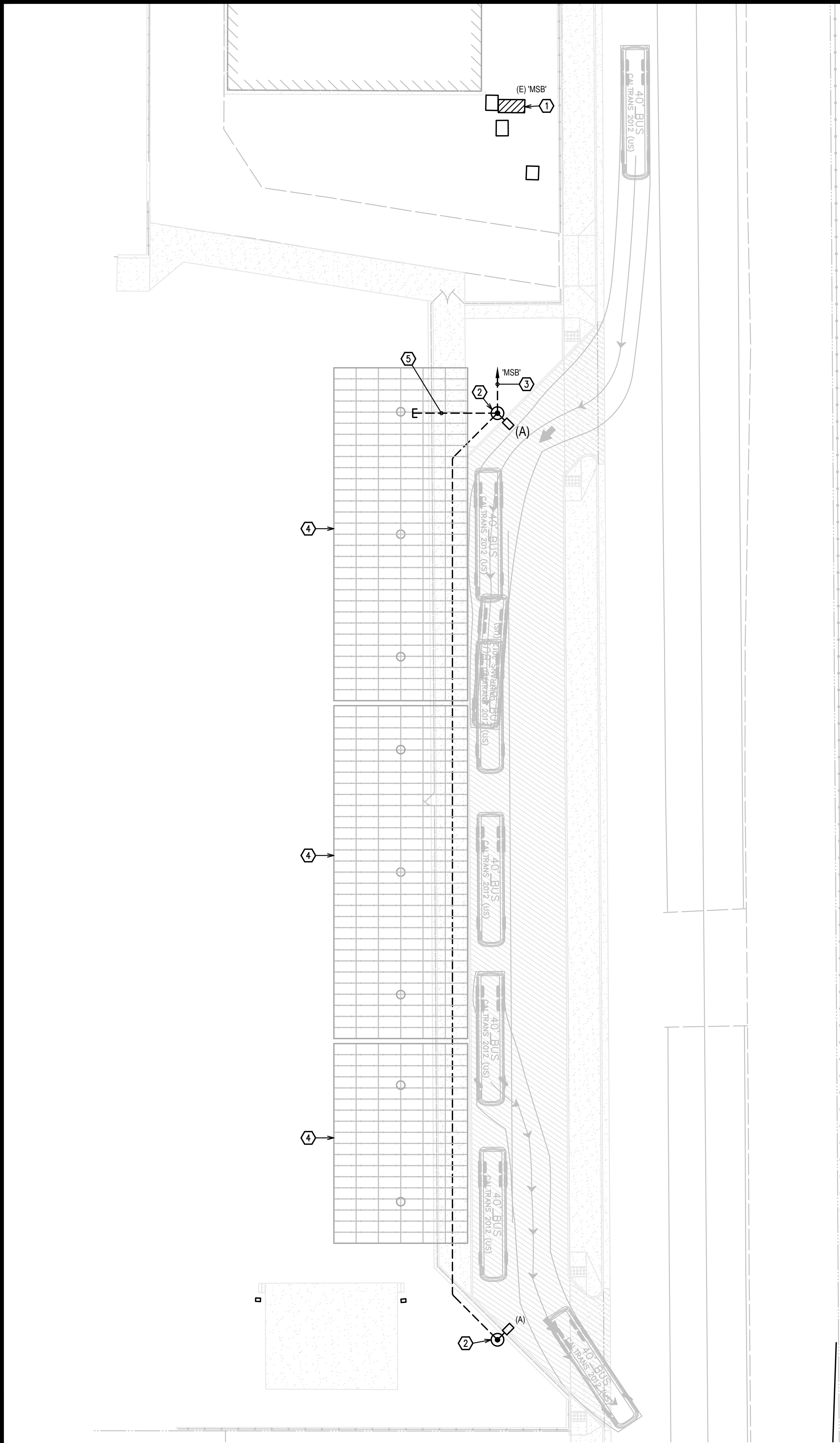
BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS

ELECTRICAL NOTES

CONSTRUCTION DOCUMENTS

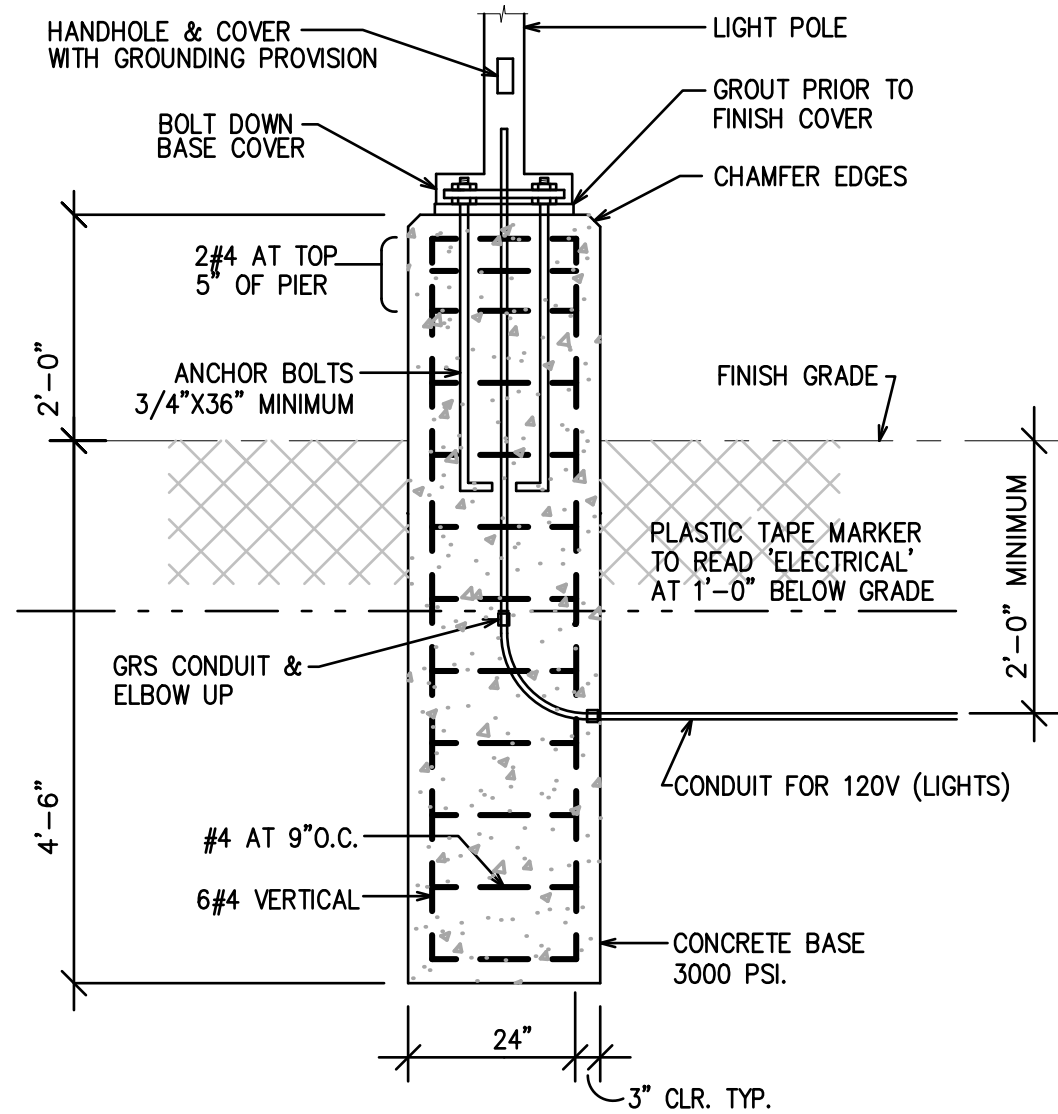
DR. BY: S. DUNCAN
CH. BY: S. JUE
DATE: 8/6/2022
SCALE: AS NOTED

E101



KEYNOTES ◊

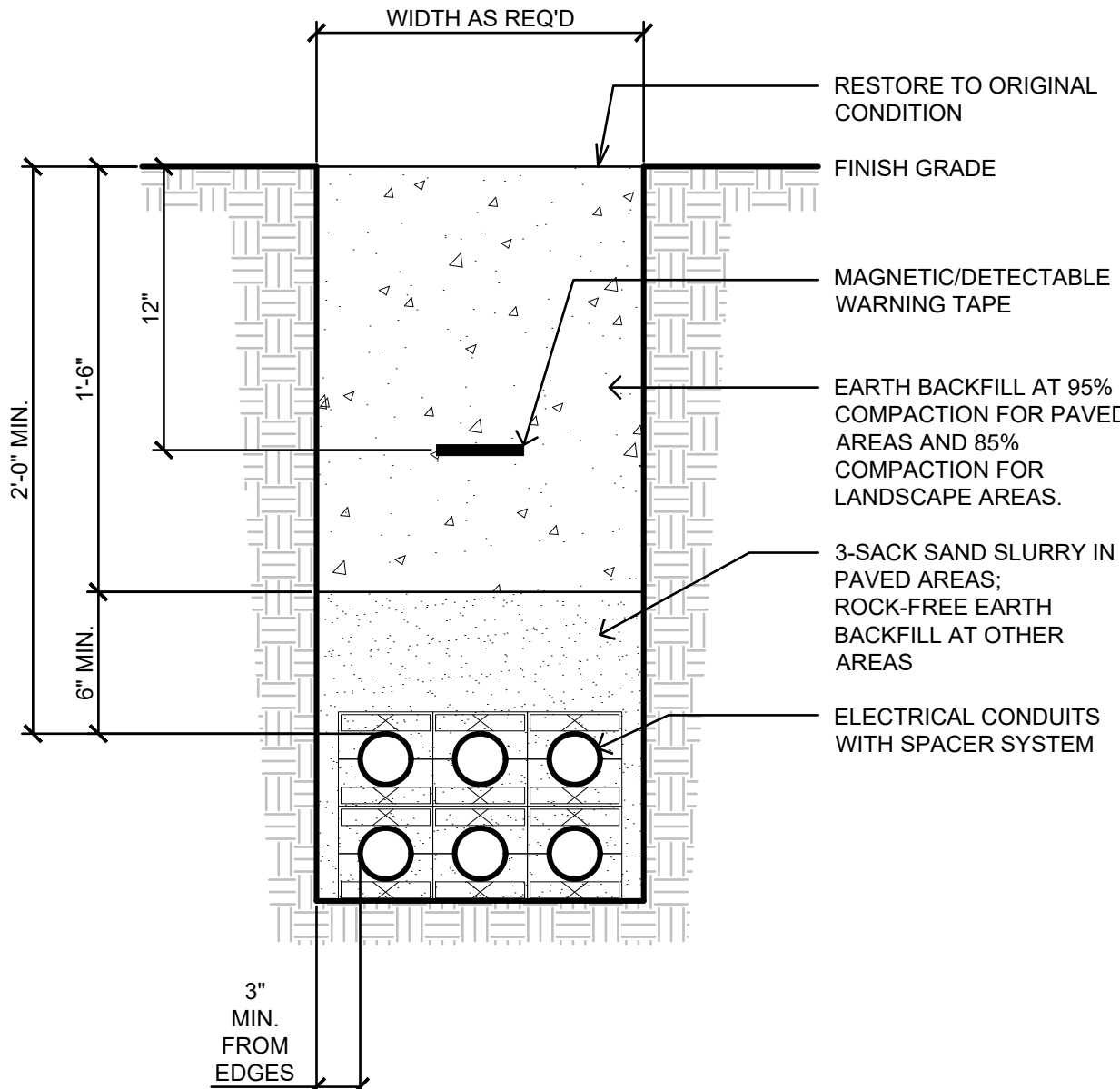
1. (E) MAIN SWITCHBOARD "MSB". PROVIDE NEW (1) 20A/1P CIRCUIT BREAKER. MATCH EXISTING EQUIPMENT FOR MANUFACTURER, TYPE AND AIC RATING.
2. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE, POLE AND POLE BASE. SEE FIXTURE SCHEDULE AND POLE BASE DETAIL 1/E201.
3. PROVIDE 1"Ø 2#10 CU, 1#10 CU GRD. CONNECT TO NEW CIRCUIT BREAKER IN EXISTING "MSB". SEE KEYNOTE #1. SEE DETAIL 2/E201 FOR TRENCH DETAIL.
4. SOLAR CANOPY UNDER SEPARATE PERMIT.
5. STUB 1"Ø. FOR FUTURE SOLAR CANOPY LIGHTING. PROVIDE #10 WHITE TRACER WIRE COILED IN HANDHOLE OF POLE.



LIGHT POLE BASE DETAIL

NO SCALE

1



TRENCHING DETAIL

NO SCALE

2

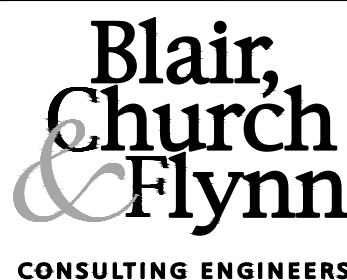
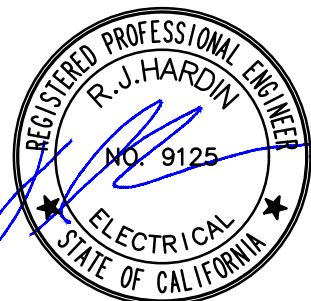
LUMINAIRE SCHEDULE

TYPE	MANUFACTURER		LAMP	WATTS	VOLT	MOUNTING	DETAIL	REMARKS
S	LUMARK	PRV-P PA1A 740 U T4W BZ MS/DIM-L40	LED 4K	31	UNV	POLE	1/E201	PROVIDE MOTION & DAYLIGHT SENSOR
	LUMARK	SSS 4 A 20 S F N 1 X	--	--	--	CONCRETE BASE	1/E201	20' POLE



ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"



REF. & REV.

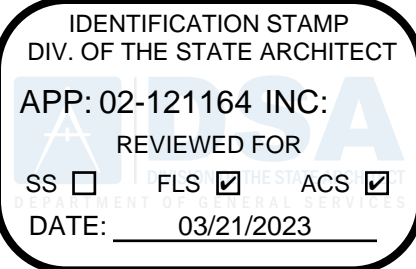
MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS
ELECTRICAL SITE PLAN

CONSTRUCTION DOCUMENTS

DR. BY: S. DUNCAN
CH. BY: S. JULIE
DATE: 8/8/2022
SCALE AS NOTED

E201



FOR DSA USE ONLY

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 1 of 7)

Project Address:

Date Prepared: 10/27/2022

A. GENERAL INFORMATION

01 Project Location (city) Madera

04 Total Illuminated Hardscape Area (ft²) 10924

02 Climate Zone 13

03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ L2-0: Very Low - Undeveloped Parkland

☐ L2-2: Moderate - Rural Areas

☐ L2-4: High - Must be reviewed by CA Energy Commission for Approval

☐ L2-1: Low - Developed Parkland

☒ L2-3: Moderately High - Urban Areas

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2), for alterations.

My Project Consists of:

01

02

☒ New Lighting System

Must Comply with Allowances from §140.7

☐ Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

☐ Yes

☐ No

03

04

05

% of Existing Luminaires Being Altered¹

Sum Total of Luminaires Being Added or Altered

Calculation Method

☐ < 10%

☐ ≥ 10% and < 50%

☐ ≥ 50%

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 2 of 7)

Project Address:

Date Prepared: 10/27/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)

01

02

03

04

05

06

07

08

09

General Hardscape Allowance §140.7(d)(1) (See Table I)

Per Application §140.7(d)(2) (See Table J)

Sales Frontage §140.7(d)(2) (See Table K)

Ornamental §140.7(d)(2) (See Table L)

Per Specific Area §140.7(d)(2) (See Table M)

OR

Existing Power Allowance §141.0(b)(2) (See Table N)

OR

Total Allowed (Watts)

796.6

≥

Total Actual (Watts)

62

07 must be ≥ 08

Cutoff Compliance (See Table G for Details)

COMPLIES

Controls Compliance (See Table H for Details)

COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 4 of 7)

Project Address:

Date Prepared: 10/27/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (i.e. untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Mandatory Controls

01

02

03

04

05

Area Description

Shut-Off §130.7(c)(1)

Auto-Schedule §130.7(c)(2)

Motion Sensor §130.7(c)(3)

Field Inspector

Bus Drop Off

Photocontrol

Yes

Yes

☐ Pass

☐ Fail

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

OR: Not permitted by health & safety to be turned off: EXCEPTION 1 to §130.7(c)(1)

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 5 of 7)

Project Address:

Date Prepared: 10/27/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01

General Hardscape Allowance Table I (below)

"Use it or lose it" Allowance (select all that apply) (select all that apply)

☐ Per Application Table J

☐ Sales Frontage Table K

☐ Ornamental Table L

☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 & 3)

02

03

04

05

06

07

08

9

10

Area Description

Surface Type

Illuminated Area (ft²)

Allowed Density (W/ft²)

Area Allowance (Watts)

Perimeter Length (ft)

Allowed Density (W/ft²)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

Undefined Ext Task

Asphalt

10924

0.03

273.1

694

0.4

173.5

446.6

Initial Wattage Allowance for Entire Site (Watts):

350

Total General Hardscape Allowance (Watts):

796.6

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 7 of 7)

Project Address:

Date Prepared: 10/27/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard J. Hardin, PE

Documentation Author Signature:

Signature Date: 2022-10-27

CEA/HERS Certification Identification (if applicable): E9125

Address: 356 Pollasky Ave., Ste 200

City/State/Zip: Clovis CA 93612

Phone: 559.323.4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Richard J. Hardin, PE

Responsible Designer Signature:

Signature Date: 2022-10-27

License: E9125

Address: 356 Pollasky Ave., Ste 200

City/State/Zip: Clovis CA 93612

Phone: 559.323.4995

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-121164 INC:

REVIEWED FOR

SS ☐ FLS ☒ ACS ☒

DATE: 03/21/2023

FOR DSA USE ONLY

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 3 of 7)

Project Address:

Date Prepared: 10/27/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire¹,²

How is Wattage determined

Total number luminaires²

Luminaire Status³

Excluded per §140.7(a)

Design Watts

Cutoff Req. > 6,200 Initial lumen output §130.7(b)⁴

Field Inspector

A

31w LED

☐ Linear

31

Mfr. Spec

2

New

☐

62

NA < 6,200 lumens

☐ Pass

☐ Fail

Total Design Watts:

62

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue: EXCEPTION 2 to §130.7(b)
¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.8(c)
² For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.7(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Berenda Elementary School

Report Page: (Page 6 of 7)

Project Address:

Date Prepared: 10/27/2022

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCLV/

Yes

No

Field Inspector

Pass

Fail

☒ Yes

☐ No

NRCH-LTO-01-E - Must be submitted for all buildings

☐

☐

☒ Yes

☐ No

NRCH-LTO-02-E: Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

☐

☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes

No

Field Inspector

Pass

Fail

☒ Yes

☐ No

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

☐

☐

Registration Number:

Registration Date/Time:

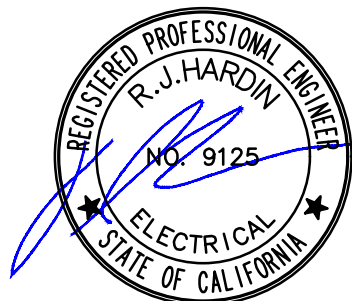
Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-10-27 16:54:48



Hardin-Davidson
Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

Blair,
Church
& Flynn
CONSULTING ENGINEERS



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-4990

REF. & REV.

MADERA UNIFIED SCHOOL DISTRICT

BERENDA ELEMENTARY SCHOOL
BUS DROP-OFF AND ADA IMPROVEMENTS

CONSTRUCTION DOCUMENTS

TITLE 24 DOCUMENTATION

DR. BY: S. DUNCAN
CH. BY: S. JUE
DATE: 8/6/2022
SCALE AS NOTED

E301