Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way, San Rafel, CA 94903

San Rafael City Schools

DSA FILE NO: 21-H1 **DSA APPLICATION NO:** 01-119221 **PTN:** 65466-39

PROJECT TEAM

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San Rafael, CA 94903
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(707) 576-0829

LICENSED ARCHITECT
STEVEN KWOK
LICENSE # C20161
EXP APRIL 30, 2021
STATE OF CALIFORNIA

SIGNED: JANUARY 26, 2021

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DSA APP NO. 01-119221

ARCH PROJECT NO:	1854.00
DRAWN BY:	TF
DRAWING SCALE:	NO SCALE
PTN: 65466-39	FILE NO: 21-H1

100% CD

JANUARY 26, 2021

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

P:\1854.00 - Terra Linda HS Gym & Frontage_SRCS\Drawings\04-CD\1854.00 SITE PLAN - INC.1.pln:1/26/2021;10:11 AM

ABBREVIATIONS

&	AND
L	ANGLE
@	AT
℄	CENTERLINE
'	FEET
"	INCHES
d	PENNY
#	POUND/ NUMBER
AB	ANCHOR BOLT
ABBREV	ABBREVIATION
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
AC T	ACOUSTICAL TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BD	BOARD
BFP	BACKFLOW PREVENTER
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BO	BY OWNER
BRK	BREAK
BRG	BEARING
BTWN	BETWEEN
BU	BUILT-UP
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIR	CIRCLE
CJ	CONTROL JOINT
CORR	CORRIDOR
CL	CLOSET/ CENTER LINE
CLG	CEILING
CLR	CLEAR
CLS	CLOSURE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
CUST	CUSTODIAN
CW	COLD WATER
DBL	DOUBLE
DDC	DOUBLE DETECTOR CHECK
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DRAIN INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DIV	DIVISION
DN	DOWN
DO	DOOR OPENING
DIR	DIRECTLY
DR	DOOR
DSA	DIVISION OF STATE ARCHITECT
DS	DOWN SPOUT
DSP	DRY STAND PIPE
DT	DRAIN TILE
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	EAST
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EE	EACH END
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION GRADE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENCL	ENCLOSURE
EP	ELECTRIC PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FACE
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPT. CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FGL	FIBERGLAS
FH	FIRE HYDRANT
FHMS	FLAT HEAD MACHINE SCREW
FHS	FIRE HOSE STATION
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR LINE
FLASH	FLASHING
FLUOR	FLUORESCENT
FLR	FLOOR
FM / FOM	FACE OF MASONRY
FN	FACE NAIL
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRMG	FRAMING
FR	FIRE-RESISTANT
FRP	FIBERGLASS REINFORCED PANEL
FT	FEET
FTG	FOOTING
FURR	FURRING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS/ GLAZING
GLB	GLUE LAMINATED BEAM
GND	GROUND
GR	GRADE
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HYDRATION STATION
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR-CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INTEG	INTEGRAL
INTERMED	INTERMEDIATE
INV	INVERT
JH	JOIST HANGER
JST	JOIST
JT	JOINT
KIT	KITCHEN
KP	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LL	LIVE LOAD
LP	LOW POINT
LT	LIGHT
MAT	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULAR
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
(N)	NEW
NAT	NATURAL
N.I.C.	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
O.L.F.	OCCUPANT LOAD FACTOR
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PC	PORTLAND CEMENT
P.C.F.	POUNDS PER CUBIC FOOT
PDA	POWER DRIVEN ANCHOR
PERF	PERFORATED
PH	PLATE HEIGHT
PIV	PRESSURE INDICATOR VALVE
PL	PLATE
P/L	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER/ PLASTIC
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
P.O.C.	POINT OF CONTACT
PR	PAIR
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RISER
R / RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGULAR
REQD	REQUIRED
REINF	REINFORCED
RH	ROOF HATCH
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
RWD	REDWOOD
S	SOUTH
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.AV.D.	SEE AUDIO/VIDEO DRAWINGS
SC	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SEP	SEPARATION
SHR	SHOWER
SHTG	SHEATHING
SIM	SIMILAR
SL	SLIDING
S.L.D.	SEE LANDSCAPE DRAWINGS
SM	SHEET METAL
S.M.D.	SEE MECHANICAL DRAWING
SOV	SHUT OFF VALVE
S.P.D.	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DRAWINGS
S.TH.D.	SEE THEATER DRAWINGS
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T	TREAD
T&B	TOP & BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TER	TERRAZZO
T&G	TONGUE & GROOVE
TH	THICK
THRU	THROUGH
TJ	TOOL JOINT
TN	TOE NAIL
T.O.D.	TOP OF DECK
T.O.P.	TOP OF PLATE
T.O.R.	TOP OF ROOF
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVEMENT
TRN	TRANSOM
TRANS	TRANSPARENT
TS	TUBE STEEL
TUB	TUBULAR
TV	TELEVISION
TW	TACKWALL
TYP	TYPICAL
UNF	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
V.I.F.	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
W/O	WITHOUT
WP	WATER PROOF
W.P.	WORK POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
YD	YARD

LEGEND

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS INTENDED EXCEPT AS SPECFICALLY NOTED.

- AA / 1 — COLUMN GRIDS A AND 1 IN BUILDING A
- 6'-0" — DIMENSION TO FACE OF STUD OR MASONRY
- 6'-0" — DIMENSION TO FACE OF FINISH
- 6'-0" — DIMENSION TO CENTER LINE OR COLUMN LINE
- 12'-0" — RELATIVE ELEVATION DIMENSION
- B101A — DOOR A IN ROOM NUMBER 101 IN BUILDING B ACCESSIBLE CLEARANCES SHOWN DASHED
- SEE — SEE
- 009 — WINDOW NUMBER 009
- 11 / A-9.12 — DETAIL NUMBER 11 ON SHEET NUMBER A-9.12
- 3 / A-B6.2 — SECTION NUMBER 3 ON SHEET NUMBER A-B6.2
- 2 / A-B5.3 — ELEVATION NUMBER 2 ON SHEET NUMBER A-B5.3

FLOOR PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
F-4	FLOOR FINISH CODE F-4
A-A7.6	INTERIOR ELEVATION SHOWN ON SHEET A-A7.6

REFLECTED CLG PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
CL-6	CEILING FINISH CODE CL-6
10'-0"	FINISH CEILING HEIGHT 10'-0"

- 33 — KEYNOTE NUMBER 33
- 8" — WALL FRAMING SIZE 8"
- 50 — WALL ACOUSTIC RATING OF STC 50
- C — TOILET ACCESSORY C
- 222 — ARCHITECTURAL WOODWORK STANDARDS (AWS) CABINET DESIGN SERIES IDENTIFIER
- W-2 — FINISH CODE, WALL FINISH 2 SHOWN
- E1 — ROOM / BUILDING ACCESSIBLE SIGNAGE TYPE E1. SEE ARCHITECTURAL GRAPHICS PLAN AND ACCESSIBLE SIGNAGE DETAIL
- W.P. — RELATIVE ORIGIN OR WORK POINT
- EQUIPMENT TAG REFER TO EQUIPMENT SCHEDULE

GENERAL NOTES

1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.

   ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.

2. ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
   - DO NOT SCALE DRAWINGS.
   - VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.

3. ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL

4. GOVERNING CODES: A COPY OF TITLE 24 PARTS 1-5 SHALL BE KEPT ON THE JOB AT ALL TIMES.
   CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE:
   - PART 1 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
   - PART 2 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)
   - PART 3 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   - PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   - PART 5 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
   - PART 6 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
   - PART 9 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
   - PART 10 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
   - PART 11 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN), PART 11, TITLE 24 CCR
   - PART 12 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

   TITLE 19 CCR, PUBLIC SAFETY CODE, STATE FIRE MARSHAL REGULATIONS
   2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
   2016 ASME A17.1-16/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS

5. STANDARD AND GUIDES:

NFPA 13	INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL FIRE EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 25	CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2016 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
UL 2034	STANDARD FOR SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS	2017 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION

6. IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS)
   - 4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.
   - 4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA.
   - 4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER.
   - 4-333(b) THE DISTRICT MUST PROVIDE AND PAY FOR PROJECT INSPECTOR.
   - 4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION.
   - 4-335 STRUCTURAL TESTS AND INSPECTION ARE REQUIRED IN ACCORDANCE WITH THIS SECTION. TESTS OF MATERIALS AND TESTING LAB SHALL BE IN ACCORDANCE WITH SECTION 4-335 AND THE DISTRICT SHALL EMPLOY AND PAY THE LAB. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103)
   - 4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343
   - 4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337.
   - 4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS. CHANGES IN THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN CHARGE. ADDENDA AND CHANGE DOCUMENTS SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF WORK.
   - 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
   - 4-341(d) INSPECTOR SHALL BE APPROVED BY DSA.
   - 4-342 INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333 THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH THIS SECTION.
   - 4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.

7. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (TITLE 24 PART 1, SECTION 4-338(c))

8. COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.

9. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

STATEMENT OF GENERAL CONFORMANCE

THESE DRAWINGS (MARKED LANDSCAPING, CIVIL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, FIRE ALARM AND ELECTRICAL) AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED, HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" of TITLE 24, Part 1. (Title 24, Part 1, SECTION 4-317 (b))

SIGNATURE OF ARCHITECT/ENGINEER	DATE
STEVE KWOK, PRINCIPAL	C20161, 30 APRIL 2021
NAME, TITLE	LICENSE NO., EXP. DATE

PROJECT DESCRIPTON

INCREMENT 1 - DEMOLITION OF EXISTING CAFETERIA & INSTALLATION OF UTILITIES FOR INCREMENT 2.

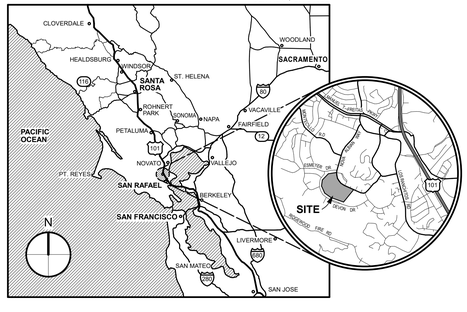
INCREMENT 2 - A NEW 21,000 SF COMPETITION GYMNASIUM WITH SUPPORTING PROGRAM. WORK INCLUDES SURROUNDING SITE WORK, RECONFIGURATION OF THE CAMPUS FRONTAGE AND SITE ENTRY/EXIT.

DEFERRED APPROVALS

INCREMENT 1 - NONE.

VICINITY MAP

320 Nova Albion Way
San Rafel, CA 94903



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G-0.2	ABBREVIATIONS, NOTES & INDEX
G-0.3	CAMPUS PLAN

CIVIL

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C-2.1	PAD PREPARATION & ROUGH GRADING PLAN
C-3.1	UTILITY PLAN
C-4.1	EROSION CONTROL & LAYOUT PLAN
C-5.1	WATER POLLUTION CONTROL DRAWING
C-6.1	DETAILS

ARCHITECTURAL

A-1.1	DEMOLITION SITE PLAN

PLUMBING

P-1.0	PLUMBING SCHEDULES & LEGENDS
P-2.1	GYMNASIUM SITE PLUMBING PLAN
P-3.1	GYMNASIUM SITE PLUMBING ENLARGED DEMOLITION PLAN
P-3.2	GYMNASIUM SITE PLUMBING ENLARGED OVERALL PLAN

ELECTRICAL

E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-1.0	SITE DEMOLITION PLAN - ELECTRICAL
E-1.1	SITE PLAN - ELECTRICAL
E-7.1	DETAILS

QUATTROCCHI KWOK ARCHITECTS

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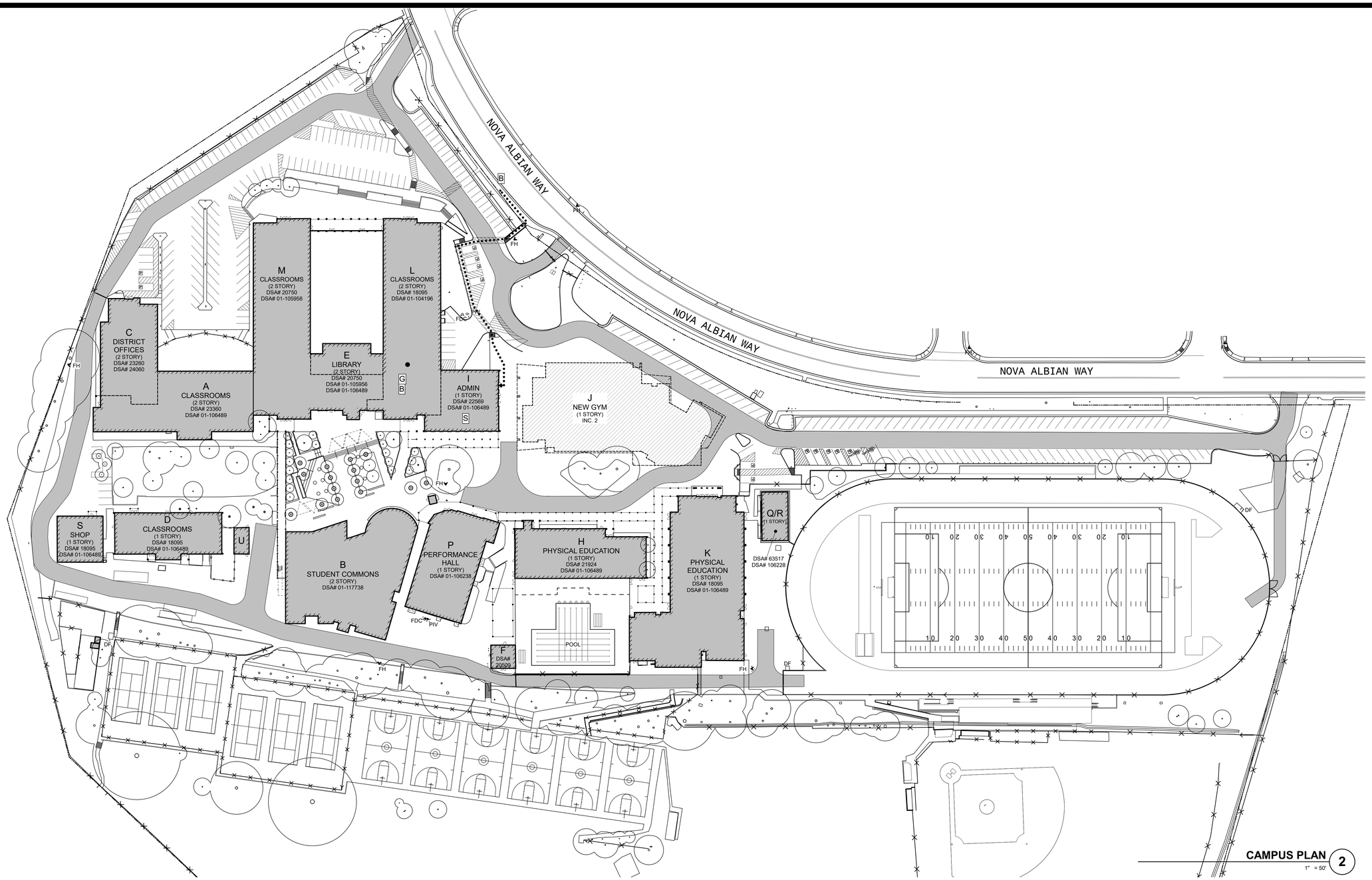
G-0.2

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\04-CD\1854.00 SITE PLAN - INC 1.pln,1/26/2021;10:13 AM



CAMPUS PLAN 2
1" = 50'

GENERAL NOTES

1. FOR BUILDING CODE ANALYSIS SEE G-0.4.
2. PAVING MATERIALS NOT OTHERWISE NOTED SHALL BE CONCRETE.
   - CONCRETE SHALL SLOPE MIN. 1/8" PER FOOT AWAY FROM BUILDINGS, S.C.D.
   - EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT MAX. AWAY FROM BUILDING FOR DRAINAGE.
3. REFER TO CIVIL ENGINEERING DWGS FOR SIDEWALK GRADES AND SITE FEATURES NOT OTHERWISE INDICATED.
4. PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 & 11B-703.7.2.1
5. BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703
6. PEDESTRIAN GATES SHALL COMPLY WITH CBC 1010.2 & 11B-206.5

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE 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 ELEMENT, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT

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 NONCOMPLIANT ELEMENT, COMPONENT, OR PORTION 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 NONCONFORMING 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 DOUCMENT.

THE BARRIER FREE PATH OF TRAVEL INDICATED HAS BEEN PROVIDED IN ACCORDANCE WITH IR 11B-10 AND SHALL COMPLY WITH THE FOLLOWING:
- 1:20 MAXIMUM SLOPE WITHOUT A RAMP
- 1:48 MAXIMUM CROSS SLOPE
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4". CHANGES BETWEEN 1/4" TO 1/2" VERTICAL CAN BE AT 1:2 MAX SLOPE. CHANGES LESS THAN 1/4" CAN BE VERTICAL
- 48" MIN. CLEAR IN WIDTH (60" MIN PASSING SPACE)
- NON-SLIP SURFACE -HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%
- MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN
- PROTRUDING OBJECTS NOT GREATER THAN 4" SHALL BE MOUNTED BETWEEN 27" AND 80" A.F.F.
- WHERE A DRAIN INLET IS IN THE PATH OF TRAVEL, THE GRATE SHALL BE ORIENTED SO THAT MAX OPENING IS 1/2" & LONG DIM IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF PEDESTRIAN TRAVEL
- CONTRACTOR TO VERIFY THAT NO BELOW-GRADE PULL BOXES OCCUR WITHIN THE AREA OF TRUNCATED DOMES

CAMPUS PLAN LEGEND

- (E) BUILDING TO REMAIN
- BUILDING TO BE BUILT IN INCREMENT 2 (NOT PART OF THIS INCREMENT)
- PROPERTY LINE
- 20' WIDE EMERGENCY VEHICLE ACCESS 60,000# ALL WEATHER
- ACCESSIBLE PATH OF TRAVEL
- (E) FENCES
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION
- PIV — POST INDICATOR VALVE
- ACCESSIBLE DRINKING FOUNTAIN
- P — PUBLIC BUS STOP
- S — ACCESSIBLE GENDER-NEUTRAL STAFF RESTROOM
- B — ACCESSIBLE BOY'S RESTROOM
- G — ACCESSIBLE GIRL'S RESTROOM

PARKING ANALYSIS

	TOTAL SPACES PROVIDED EV	STD.	ACC SPACES REQUIRED *	ACC SPACES PROVIDED
ALL PARKING LOTS	16	257	7 (2 VAN)*	11 (4 VAN) **
EV PARKING SPOTS	16		2 (1 VAN)***	2 (1 VAN)

* CBC SECTION 11B-208.2 & TABLE 11B-208.2
PER 11B-208.2.4: 1 VAN ACC SPACE REQUIRED PER 6 ACC SPACES

**DOES NOT INCLUDE ACC EV SPACES
***PER CBC TABLE 11B-228.3.2.1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION	
School District/Owner	San Rafael City Schools
Project Name/School	Terra Linda High School New Gym & Frontage Improvements
Project Address	310 Nova Albion Way, San Rafael, CA 94903

FIRE & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑	No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by CalFire? *(If yes, indicate FHSZ classification below.)*	Yes ☐	No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐ High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*		WIFA ☐

DGS DSA 810 (revised 01/30/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 — STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✔	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✔	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✔	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✔	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code, California Fire Code, and California Code of Regulations requirements for one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

DGS DSA 810 (revised 01/30/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 — STATE OF CALIFORNIA

QUATTROCCHI KWOK ARCHITECTS
Main Office:
636 Fifth Street, Santa Rosa, CA 95404
Pleasanton Office:
600 Main Street, Suite E,
Pleasanton, CA 94566
(707) 576-0829

LICENSED ARCHITECT
STEVEN KWOK
LICENSE # C20161
EXP APRIL 30, 2021
STATE OF CALIFORNIA

SIGNED: JANUARY 26, 2021

Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

DSA APP NO.	01-119221
ARCH PROJECT NO:	1854.00
DRAWN BY:	TF
DRAWING SCALE:	NO SCALE
PTN: 65466-39	FILE NO: 21-H1

100% CD

JANUARY 26, 2021

SHEET TITLE

CAMPUS PLAN

SHEET NUMBER

G-0.3

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCSD\Drawings\04-CD\1854.00 SITE PLAN - INC 1.pln\1/26/2021\10:14 AM

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AD	ALGEBRAIC DIFFERENCE
ADA	AMERICANS WITH DISABILITIES ACT
ADPT	ADAPTER
AGG	AGGREGATE
ALUM	ALUMINUM
AP	ANGLE POINT
APN	ASSESSORS PARCEL NUMBER
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
AVE	AVENUE
BC	BEGIN HORIZONTAL CURVE
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BO	BLOWOFF
BV	BUTTERFLY VALVE
BVC	BEGIN VERTICAL CURVE
BSW	BACK OF SIDEWALK
BT	BOTTOM OF TAPER
BW	BOTTOM OF WALL
B&R	BRELJE & RACE
CAV	COMBINATION AIR AND VACUUM RELEASE VALVE
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CDF	CONTROLLED DENSITY FILL
CHK	CHECK
CIPP	CAST-IN-PLACE PIPE
℄	CENTERLINE
CL	CENTERLINE
CL	CLASS
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEANOUT
COAX	COAXIAL CABLE
CONC	CONCRETE
COND	CONDUIT
CO/GS	CLEANOUT TO GRADE
CP	CONTROL POINT
CPLG	COUPLING
CR	CURB RETURN
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CY	CUBIC YARDS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
DBL	DOUBLE
DCDC	DOUBLE CHECK DETECTOR CHECK
DDC	DOUBLE DETECTOR CHECK
DET	DETECTOR
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DS	DOWNSPOUT
DS	DOWNSTREAM
DW	DRAWING
D/W	DRIVEWAY
E	EAST
EC	END HORIZONTAL CURVE
ECC	ECCENTRIC
EFFL	EFFLUENT (SEWER)
EG	EXISTING GROUND
EL	ELEVATION
ELEC	ELECTRICAL
ELL	ELBOW
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EX	EXISTING
EXIST	EXISTING
FC	FACE OF CURB
FCA	FLANGED COUPLING ADAPTER
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
⅊	FLOWLINE
FL	FLOWLINE
FLG	FLANGE
FLSO	FLOWLINE OF SIDE OPENING
FLEX	FLEXIBLE
FM	FORCE MAIN (PRESSURE)
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FTG	FOOTING
GALV	GALVANIZED
GB	GRADE BREAK
GPM	GALLONS PER MINUTE
GRD	GROUND
GSP	GALVANIZED STEEL PIPE
GV	GAS VALVE
GV	GATE VALVE
HB	HOSE BIBB
HB	HEADER BOARD
HDG	HOT DIPPED GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HPG	HIGH PRESSURE GAS
HWY	HIGHWAY
ICV	IRRIGATION CONTROL VALVE
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
IRR	IRRIGATION
ISA	INTERNATIONAL SIGN ASSOCIATION
JP	JOINT POLE
JT	JOINT TRENCH
L	ARC LENGTH
L	LENGTH
LF	LINEAL FEET
LG	LIP OF GARAGE
LG	LIP OF GUTTER
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MBGR	METAL BEAM GUARD RAIL
MFR	MANUFACTURE
MG	MILLION GALLONS
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MSL	MEAN SEA LEVEL
N	NORTH
NO.	NUMBER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NPT	NATIONAL PIPE THREAD
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OZ	OUNCE
PA	PLANTER AREA
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PE	PLAIN END
PG	PAD GRADE
PIV	POST INDICATOR VALVE
ℙ	PROPERTY LINE
PN	PAVING NOTCH
POC	POINT OF CONNECTION
POC	POINT ON CURVE
POS	PRIVATE OPEN SPACE
POT	POINT ON TANGENT
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PSI	POUND PER SQUARE INCH
PSV	PRESSURE SUSTAINING VALVE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PWE	PUBLIC WATER EASEMENT
R	RADIUS
RAW	RAW WATER
RC	RELATIVE COMPACTION
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RD	ROOF DRAIN
RED	REDUCER
REF	REFERENCE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RSC	REMOTE SUPERVISORY CONTROL
RT	RIGHT
RT	RING TIGHT
RW	RECYCLED WATER
RWL	RAIN WATER LEADER
R/W	RIGHT OF WAY
S	SOUTH
S	SLOPE
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCH	SCHEDULE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN DROP INLET
SDE	STORM DRAIN EASEMENT
SDMH	STORM DRAIN MANHOLE
SE	SEWER EASEMENT
S.E.D.	SEE ELECTRICAL DRAWINGS
SF	SQUARE FEET
SG	SUBGRADE
S.L.D.	SEE LANDSCAPE DRAWINGS
SOF	SLIP ON FLANGE
SO	SIDE OPENING (SD)
S.P.D.	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
S.S.D.	SEE STRUCTURAL DRAWINGS
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SVC	SERVICE
SWE	SIDEWALK EASEMENT
SY	SQUARE YARDS
S/W	SIDEWALK
T	TANGENT
TAN	TANGENT
TB	TOP OF BOX
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TD	TOP OF DIKE
TEL	TELEPHONE
TEMP	TEMPORARY
TF	TOP OF FOUNDATION
TG	TOP OF GRATE
THD	THREADED
TS	TOP OF SLAB
TT	TOP OF TAPER
TW	TOP OF WALL
TYP	TYPICAL
UFFG	UNDER FLOOR FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
VC	VERTICAL CURVE
W	WEST
W	WATER
WM	WATER METER
WNF	WELD NECK FLANGE
WS	WATER SERVICE
WT	WEIGHT
WV	WATER VALVE
°	DEGREES
'	MINUTES
"	SECONDS
Δ	DELTA
&	AND
@	AT
#	NUMBER
#	POUNDS
%	PERCENT

LEGEND

LINES

BOUNDARY

PARCEL

CENTER

EASEMENT

UTILITY LINES

	EXISTING	PROPOSED
STORM DRAIN	24"SD	24"SD
WATER	8"W	8"W
SEWER	12"SS	12"SS
GAS	GAS	
ELECTRICAL	E	12KV E
TELEPHONE	T	
TELEVISION	TV	
JOINT TRENCH	JT	

TOPOGRAPHY

DROP INLET

DROP INLET WITH SIDE OPENINGS

WATER METER

WATER VALVE

BLOWOFF

FIRE HYDRANT

THRUST BLOCK

GAS METER

STORM DRAIN MANHOLE

STORM DRAIN CATCH BASIN

SEWER MANHOLE

SEWER CLEANOUT

JOINT POLE

LIGHT STANDARD

GUY/ANCHOR

CURB & GUTTER

AC DIKE

FENCE

CHAIN LINK FENCE

DITCH/SWALE

MONUMENT

TREE PROTECTION

TREE TO BE SAVED

TREE TO BE REMOVED

FEMA INFORMATION

THE APPLICABLE FIRMS FOR THIS SITE ARE PANEL NOS. 06041C0293E AND 06041C0456F, DATED MARCH 16, 2016. THIS SITE IS LOCATED IN ZONE X (NO HATCH), WHICH REPRESENTS AREA OUTSIDE THE 1% ANNUAL CHANGE FLOOD HAZARD AREA.

GENERAL NOTES

1. ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
2. ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS DATED JULY 2006 EXCEPT AS NOTED ON PLANS AND THE STANDARD SPECIFICATIONS OF CITY OF SAN RAFAEL.
3. CONTRACTOR SHALL OBTAIN ALL AGENCIES' REQUIRED PERMITS AND PAY ALL FEES PRIOR TO COMMENCEMENT OF ANY WORK.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ARCHITECT AND HIS CONSULTANTS, AND THE DISTRICT, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.
5. ANY EXCESS MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, ODORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING ROADWAYS AND PROPERTIES.
7. CONTRACTOR SHALL BE RESPONSIBLE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURER APPROVED MUFFLERS/BAFFLES.

ROOF DRAIN NOTES

1. SEE ARCHITECTURAL PLANS FOR INDIVIDUAL BUILDINGS FOR CONNECTION DETAILS, EXACT LOCATION, AND ELEVATION OF ROOF DRAIN STUBOUTS. THESE STUBOUTS SHALL BE CONNECTED TO THE ONSITE STORM DRAIN SYSTEM AS SHOWN, WITH A 1% MINIMUM SLOPE. THE INTENT OF THIS PLAN IS TO CONVEY ROOF DRAINAGE FROM CONNECTION POINTS PROVIDED IN ARCHITECTURAL PLANS. IF THE ROOF DRAIN SYSTEM SHOWN HEREON IS CONSTRUCTED IN ADVANCE OF BUILDING STUBS BEING CONSTRUCTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY ADJUSTMENTS TO THE COLLECTION SYSTEM TO MATCH THE AS CONSTRUCTED LOCATION OF ROOF DRAINS. THE ROOF DRAIN SYSTEM SHALL BE CONSTRUCTED SO AS TO AVOID FOOTINGS AND OTHER OBSTRUCTIONS.
2. WHERE ROOF DRAINS (RD OR SD) ARE SHOWN CONNECTING TO THE MAIN STORM DRAIN, THE CONNECTION SHALL BE MADE USING A MANUFACTURED FITTING WHEREVER POSSIBLE. WHERE IT IS NOT POSSIBLE TO UTILIZE A MANUFACTURED FITTING, THE RD, OR SD SHALL BE BLIND CONNECTED TO THE MAIN STORM DRAIN AT OR ABOVE THE SPRINGLINE OF THE MAIN STORM DRAIN, AND SHALL NOT PROJECT MORE THAN 1/4" INTO THE INTERIOR OF THE MAIN STORM DRAIN. THE CONNECTION SHALL BE SECURED VIA A CONCRETE COLLAR AROUND THE RD, OR SD AT THE POINT OF CONNECTION TO THE MAIN STORM DRAIN.
3. ALL ROOF DRAIN COLLECTION SYSTEM PIPING SHALL BE 1% MINIMUM SLOPE AND 6" MINIMUM COVER, WHERE POSSIBLE OR DEEPER AS NECESSARY TO CONNECT TO THE DRAINAGE SOURCE.
4. ALL ROOF DRAINS (RD) ARE 4" UNLESS OTHERWISE SHOWN. ALL PIPE SHALL BE RIGID PIPE WITH SMOOTH INTERIOR WALL. ALL PIPE CONNECTIONS SHALL BE MADE WITH FITTINGS MANUFACTURED TO BE COMPATIBLE WITH THE PIPE AND SHALL BE WATER TIGHT.
5. ANY RD OR SD LATERAL CONSTRUCTED IN ADVANCE OF THE DRAIN TO WHICH IT IS DESIGNED TO CONNECT SHALL BE TEMPORARILY PLUGGED AND MARKED WITH A WOOD END STAKE TO PREVENT THE ENTRY OF DEBRIS INTO THE SYSTEM, AND TO FACILITATE LOCATING THE LATERAL AT A LATER TIME.

GENERAL UNDERGROUND NOTES

1. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, MAY BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER, THE ENGINEERS AND THE ARCHITECT ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
2. CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS BEFORE STARTING WORK.
3. UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES AT PROPOSED POINTS OF CONNECTION AND CROSSINGS WITH EXISTING UTILITIES AND NOTIFY ENGINEER OF FINDINGS VIA THE RFI PROCESS PRIOR TO THE CONSTRUCTION OF ANY UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, SEWER LINES, STORM DRAINS, GAS MAINS AND LATERALS, ELECTRICAL DISTRIBUTION LINES AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED, ABANDONED IN PLACE BY FILLING WITH CONCRETE SLURRY OR BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW STORM DRAIN OR SANITARY SEWER CONSTRUCTION ACCORDINGLY.
6. DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS, AND YARD DRAINS OR AS MARKED ON THE DRAWINGS.
7. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS – NEW GYMNASIUM PREPARED FOR THIS PROJECT BY, A3GEO, INC. DATED MARCH 25, 2020, INCLUDING THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED TLHS IMPROVEMENTS DATED FEBRUARY 16, 2018.
2. SEE SPECIFICATION SECTIONS 31 1000 AND 31 2000 FOR SPECIFIC REQUIREMENTS.

FIRE PROTECTION NOTES (NFPA 2016 EDITION)

1. NFPA 24 SEC. 10.1 ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD-COATED AND WRAPPED AFTER ASSEMBLY. FOR BURIED PIPE, GALVANIZING, INTERNALLY OR EXTERNALLY, DOES NOT MEET THE REQUIREMENTS OF THIS SECTION.
2. NFPA 24 SEC. 10.4.1.1 ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH CHRISTY'S HD 50 COAL TAR MASTIC (OR APPROVED EQUAL) CORROSION-RETARDING MATERIAL AFTER INSTALLATION.
3. NFPA 24 SEC. 10.6.2.5 AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH CHRISTY'S HD 50 COAL TAR MASTIC (OR APPROVED EQUAL) CORROSION-RETARDING MATERIAL.
4. NFPA 24 SEC. 10.10.2.1.1 UNDERGROUND PIPING FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD-IN CONNECTIONS TO THE SYSTEM RISER, SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSTREAM FIRE PROTECTION SYSTEM PIPING TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION AND RUN UNTIL WATER RUNS CLEAR. WITNESSED BY THE INSPECTOR OF THE RECORD. (LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FLUSH AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.)
5. NFPA 24 SEC. 10.10.2.2.1 ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI PRESSURE AND MAINTAINED FOR A MINIMUM OF TWO HOURS. WITNESSED BY THE INSPECTOR OF RECORD. (LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF HYDRO-TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.)
6. NFPA 24 SEC. 10.6 PRIVATE FIRE SERVICE MAINS SHALL BE RESTRAINED AGAINST MOVEMENT CHANGES IN DIRECTION IN ACCORDANCE WITH 10.6.1 OR 10.6.2. IF RODS ARE USED, THE SIZE AND NUMBER SHALL BE AS SPECIFIED IN TABLE 10.6.2.1.2.2. IF CLAMPS OR RESTRAINT STRAPS ARE USED, THE SIZE SHALL BE AS SPECIFIED IN FIGURE 10.6.2.2.3 AND TABLE 10.6.2.2.3.
7. NFPA 24 SEC. 10.6.1.2/10.6.1.3 THRUST BLOCKS SHALL BE A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE-HALF PARTS SAND, AND FIVE PARTS STONE. THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE CAPABLE OF RESISTING THE CALCULATED THRUST FORCES.
8. NFPA 24 SEC. 10.6.1.4 WHENEVER POSSIBLE, THRUST BLOCKS SHALL BE LOCATED SO THAT THE JOINTS ARE ACCESSIBLE FOR REPAIR.
9. THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURED AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVEGROUND PIPING. (ALSO SEE SEC. 10.10.2.2.6 FOR ALLOWABLE LEAKAGE)
10. HYDROSTATIC TESTS SHALL BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED. PIPE SECTIONS BETWEEN JOINTS MAY BE COVERED, BUT JOINTS SHALL REMAIN EXPOSED UNTIL HYDROSTATIC TESTING IS COMPLETE.
11. NFPA 24 SEC. 10.10.1 THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING AND SIGNING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 10.10.1. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR OF RECORD.
12. NFPA 24 SEC. 10.4.3 THE DEPTH OF COVER OVER WATER PIPES SHALL NOT BE LESS THAN 2 1/2 FT. TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3 FT. UNDER DRIVEWAYS. IF INFORMATION ON THE PLANS OR IN THE SPECIFICATIONS REQUIRE A DEEPER DEPTH OF COVER, THAT DEEPER REQUIREMENT WILL APPLY.
13. THE METHOD USED FOR UNDERGROUND FIRE-LINES WHEN ENTERING BUILDINGS UNDER CONCRETE FOOTINGS SHALL HAVE THE STRUCTURAL ENGINEER OF RECORD APPROVAL. NFPA 24 SEC. 10.4 REQUIRES A CLEARANCE BY A PIPE SLEEVE WITH A NOMINAL DIAMETER 4 IN. LARGER THAN THE NOMINAL DIAMETER OF THE SUPPLY PIPING FOR 4 IN. NOMINAL AND LARGER. (IE: FIRE-LINES NOMINAL 6 IN. REQUIRES 10 IN. SLEEVE.)
14. PVC PIPING MAY BE INSTALLED TO 5 FEET OUTSIDE THE FOUNDATION OF ANY BUILDING OR STRUCTURE OR PARTS THEREOF. IT SHALL BE BURIED IN THE GROUND FOR ITS ENTIRE LENGTH. IT SHALL NOT BE INSTALLED WITHIN OR UNDER ANY BUILDING OR STRUCTURE. (DUCTILE PIPE SHALL BE INSTALLED WITHIN 5 FEET OF BUILDING.)
15. THE USE OF STEEL PIPE IS NOT PERMITTED ON FIRE MAINS OR SPRINKLER SERVICES.
16. ELECTRICAL CONDUIT SHALL BE ROUTED FROM ALL BACKFLOW DEVICES (DOUBLE DETECTOR CHECK VALVES AND SINGLE CHECK VALVES) TO CENTRAL CONTROL AND MONITORING STATION LOCATED IN ADMINISTRATION BUILDING. REFER TO ELECTRICAL AND FIRE ALARM DRAWINGS FOR CONDUIT SIZE AND WIRING REQUIREMENTS. ALL VALVES SHALL BE SUPERVISED IN ACCORDANCE WITH THE CALIFORNIA FIRE CODE AND NFPA 24.
17. PROVIDE LOCAL FIRE AUTHORITY WITH 48 HOUR NOTICE BEFORE UNDERTAKING ANY WORK ON FIRE SYSTEM.
18. ALL FIRE LINES SHALL BE PVC, AWWA C900, PC 305 (DR-14), UNLESS OTHERWISE NOTED ON THE PLANS.
19. ALL DUCTILE IRON PIPE, FITTINGS, AND VALVES SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PER AWWA C105.
20. A FLUSH OF UNDERGROUND FIRE MAIN PIPING SUFFICIENT TO PRODUCE A WATER VELOCITY OF 10 FEET PER SECOND IS REQUIRED BY RFPA 24. PROVIDE A FLUSH OF UNDERGROUND FIRE MAIN PIPING IN THE PRESENCE OF THE FIRE INSPECTOR.
21. PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, 7.1.1.2.
22. ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THEY SERVE 6 OR MORE SPRINKLER HEADS.
23. POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED.
24. TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FOR DSA.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO OCTOBER 15TH AND ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT VEGETATION IS ESTABLISHED AND HAS ACHIEVED AT LEAST 70% COVERAGE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FORM THE FINAL PROPOSED DRAINAGE PATTERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS ENCOUNTERED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION SHALL BE REPORTED TO THE OWNER/ENGINEER IMMEDIATELY.
2. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER J OF THE CALIFORNIA BUILDING CODE, APPLICABLE MARIN COUNTY REGULATIONS, AND SECTION 21 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. THE APPROVED PLANS SHALL CONFORM WITH THE EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES CONTAINED IN THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS OR AN EQUIVALENT BEST MANAGEMENT PRACTICE:

   EROSION AND SEDIMENT CONTROL FIELD MANUAL BY THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD.

   MANUAL OF STANDARDS FOR EROSION & SEDIMENT CONTROL MEASURES BY THE ASSOCIATION OF BAY AREA GOVERNMENTS.

   CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL BY CALTRANS.

   STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.
4. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.
5. SOME ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE PROJECT ENGINEER AND/OR INSPECTOR OF RECORD.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING PER BEST MANAGEMENT PRACTICES.
7. THE OWNER IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000002 WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.
8. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. NO CONSTRUCTION ACTIVITY, INCLUDING ANY GRADING, SHALL BEGIN UNTIL COVERAGE UNDER THE REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT HAS BEEN OBTAINED BY FILING THE NOI AND APPROPRIATE FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL ASPECTS OF THE SWPPP INCLUDING PROVIDING A QUALIFIED SWPPP PRACTITIONER (QSP) TO MONITOR AND REPORT TO THE WATER QUALITY CONTROL BOARD AS REQUIRED UNDER THE GENERAL PERMIT. A COPY OF THE SWPPP AND NOI SHALL BE KEEP ON THE SITE AT ALL TIMES. THE CONTRACTOR'S QSP SHALL UPDATE THE WATER POLLUTION CONTROL DRAWINGS (WPCDS) BASED ON WINTER CONDITIONS. THE WPCDS SHALL BE KEPT UP TO DATE BY THE CONTRACTOR'S QSP THROUGHOUT ALL PHASES OF CONSTRUCTION.
9. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.
10. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
11. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. THE OWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 – APRIL 15).
12. THE CONTRACTOR SHALL HAVE EROSION AND SEDIMENT CONTROL MEASURES ON SITE ADEQUATE TO PROTECT THE ENTIRE SITE PRIOR TO THE OCTOBER 15TH DATE SUCH THAT IT IS IMMEDIATELY AVAILABLE IN PREPARATION OF THE UPCOMING WINTER SEASON OR IN THE EVENT OF AN EARLY RAIN.
13. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER ACTUAL STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. STORM EVENTS PRODUCE AT LEAST 1 INCH OF PRECIPITATION IN A 24 HOUR PERIOD. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
14. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.
15. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE,

NOTE
INSTALL PORTABLE CHAIN LINK FENCE PANELS AS TEMPORARY TREE PROTECTION FENCING AT LOCATIONS SHOWN ON PLANS.

TEMPORARY TREE PROTECTION FENCE

NOT TO SCALE

DEMOLITION NOTES

- A SAWCUT EXISTING IMPROVEMENTS.
- B EXISTING BUILDING TO REMAIN. PROTECT IN PLACE.
- C REMOVE EXISTING BUILDING IN ITS ENTIRETY, INCLUDING SLAB-ON-GRADE AND FOUNDATIONS/FOOTINGS AND PROPERLY DISPOSE OF THEM OFFSITE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- D REMOVE EXISTING WALKWAY CANOPY, INCLUDING COLUMNS AND FOUNDATIONS/FOOTINGS, AND PROPERLY DISPOSE OF OFFSITE. REFER TO ARCHITECTURAL DRAWINGS FOR LIMITS OF DEMOLITION AND ANY ADDITIONAL REQUIREMENTS.
- E EXISTING WALKWAY CANOPY TO REMAIN. PROTECT IN PLACE.
- F REMOVE EXISTING STORM DRAIN INLET AND PROPERLY DISPOSE OF OFFSITE. CAP EXISTING STORM DRAIN TO REMAIN AND PROTECT IN PLACE.
- G REMOVE ENTRY ARCH, INCLUDING FOOTINGS, IN ITS ENTIRETY AND PROPERLY DISPOSE OF OFFSITE. AFTER REMOVAL OF FOOTINGS FILL EXCAVATION PER GEOTECHNICAL REPORT RECOMMENDATIONS AND PLACE A TEMPORARY 3" ASPHALT PATCH.

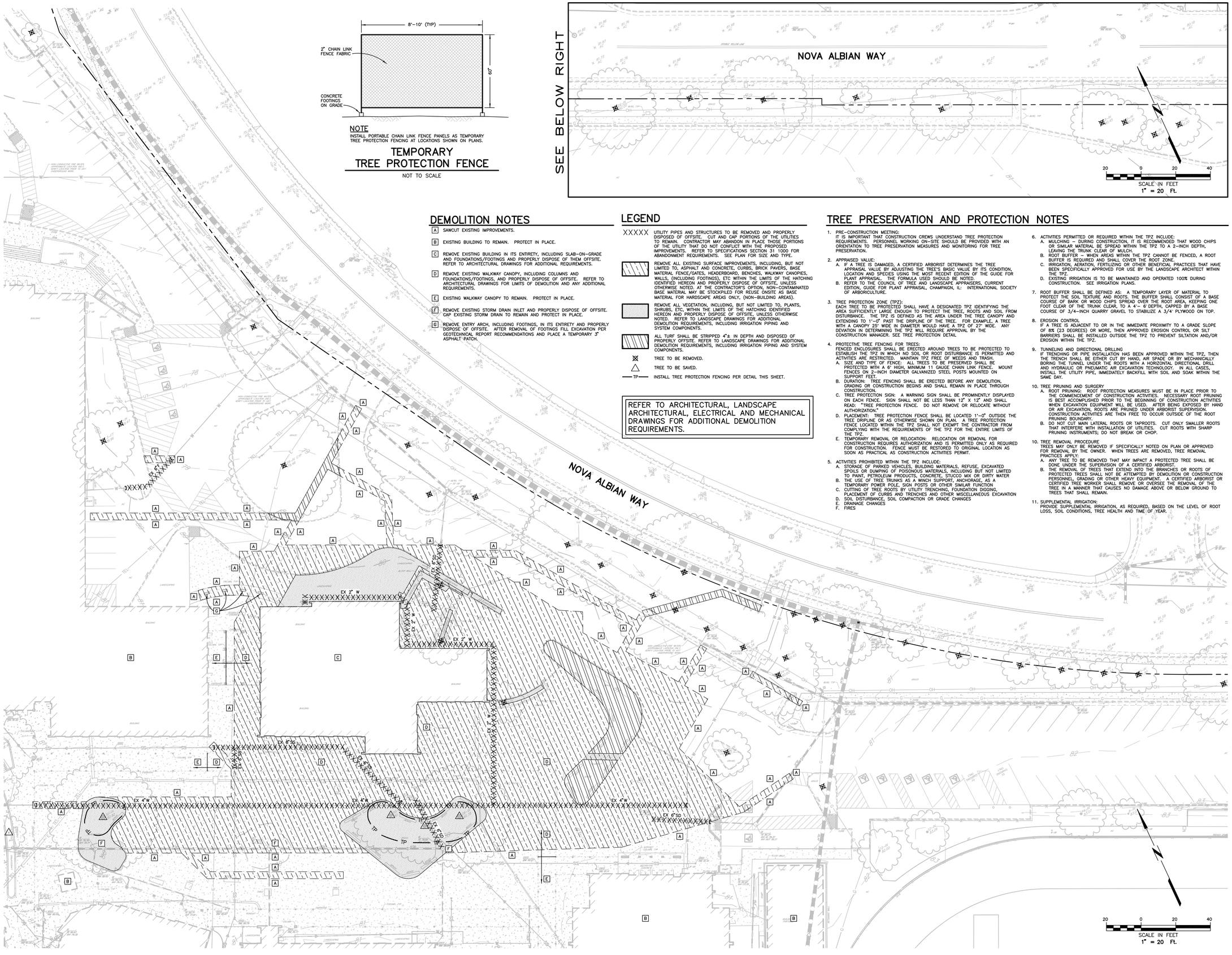
LEGEND

- XXXXX UTILITY PIPES AND STRUCTURES TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. CUT AND CAP PORTIONS OF THE UTILITIES TO REMAIN. CONTRACTOR MAY ABANDON IN PLACE THOSE PORTIONS OF THE UTILITY THAT DO NOT CONFLICT WITH THE PROPOSED IMPROVEMENTS. REFER TO SPECIFICATIONS SECTION 31 1000 FOR ABANDONMENT REQUIREMENTS. SEE PLAN FOR SIZE AND TYPE.
- REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, ASPHALT AND CONCRETE, CURBS, BRICK PAVERS, BASE MATERIAL FENCE/GATES, HEADERBOARD, BENCHES, WALKWAY CANOPIES, WALLS, (INCLUDING FOOTINGS), ETC WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED. AT THE CONTRACTOR'S OPTION, NON-CONTAMINATED BASE MATERIAL MAY BE STOCKPILED FOR REUSE ONSITE AS BASE MATERIAL FOR HARDSCAPE AREAS ONLY, (NON-BUILDING AREAS).
- REMOVE ALL VEGETATION, INCLUDING, BUT NOT LIMITED TO, PLANTS, SHRUBS, ETC, WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS, INCLUDING IRRIGATION PIPING AND SYSTEM COMPONENTS.
- ALL TURF SHALL BE STRIPPED 4"± IN DEPTH AND DISPOSED OF PROPERLY OFFSITE. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS, INCLUDING IRRIGATION PIPING AND SYSTEM COMPONENTS.
- ⊠ TREE TO BE REMOVED.
- △ TREE TO BE SAVED.
- TP — INSTALL TREE PROTECTION FENCING PER DETAIL THIS SHEET.

REFER TO ARCHITECTURAL, LANDSCAPE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

TREE PRESERVATION AND PROTECTION NOTES

1. PRE-CONSTRUCTION MEETING:
   IT IS IMPORTANT THAT CONSTRUCTION CREWS UNDERSTAND TREE PROTECTION REQUIREMENTS. PERSONNEL WORKING ON-SITE SHOULD BE PROVIDED WITH AN ORIENTATION TO TREE PRESERVATION MEASURES AND MONITORING FOR TREE PRESERVATION.
2. APPRAISED VALUE:
   A. IF A TREE IS DAMAGED, A CERTIFIED ARBORIST DETERMINES THE TREE APPRAISAL VALUE BY ADJUSTING THE TREE'S BASIC VALUE BY ITS CONDITION, LOCATION AND SPECIES USING THE MOST RECENT EDITION OF THE GUIDE FOR PLANT APPRAISAL. THE FORMULA USED SHOULD BE NOTED.
   B. REFER TO THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS, CURRENT EDITION, GUIDE FOR PLANT APPRAISAL, CHAMPAIGN, IL: INTERNATIONAL SOCIETY OF ARBORICULTURE.
3. TREE PROTECTION ZONE (TPZ):
   EACH TREE TO BE PROTECTED SHALL HAVE A DESIGNATED TPZ IDENTIFYING THE AREA SUFFICIENTLY LARGE ENOUGH TO PROTECT THE TREE, ROOTS AND SOIL FROM DISTURBANCE. THE TPZ IS DEFINED AS THE AREA UNDER THE TREE CANOPY AND EXTENDING TO 1'-0" PAST THE DRIPLINE OF THE TREE. FOR EXAMPLE, A TREE WITH A CANOPY 25' WIDE IN DIAMETER WOULD HAVE A TPZ OF 27' WIDE. ANY DEVIATION IN DETERMINING THE TPZ WILL REQUIRE APPROVAL BY THE CONSTRUCTION MANAGER. SEE TREE PROTECTION DETAIL
4. PROTECTIVE TREE FENCING FOR TREES:
   FENCED ENCLOSURES SHALL BE ERECTED AROUND TREES TO BE PROTECTED TO ESTABLISH THE TPZ IN WHICH NO SOIL OR ROOT DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED. MAINTAIN TPZ FREE OF WEEDS AND TRASH.
   A. SIZE AND TYPE OF FENCE: ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH A 6' HIGH, MINIMUM 11 GAUGE CHAIN LINK FENCE. MOUNT FENCES ON 2-INCH DIAMETER GALVANIZED STEEL POSTS MOUNTED ON SUPPORT FEET.
   B. DURATION: TREE FENCING SHALL BE ERECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND SHALL REMAIN IN PLACE THROUGH CONSTRUCTION.
   C. TREE PROTECTION SIGN: A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH FENCE. SIGN SHALL NOT BE LESS THAN 12" X 12" AND SHALL READ: "TREE PROTECTION FENCE. DO NOT REMOVE OR RELOCATE WITHOUT AUTHORIZATION."
   D. PLACEMENT: TREE PROTECTION FENCE SHALL BE LOCATED 1'-0" OUTSIDE THE TREE DRIPLINE OR AS OTHERWISE SHOWN ON PLAN. A TREE PROTECTION FENCE LOCATED WITHIN THE TPZ SHALL NOT EXEMPT THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE TPZ FOR THE ENTIRE LIMITS OF THE TPZ.
   E. TEMPORARY REMOVAL OR RELOCATION: RELOCATION OR REMOVAL FOR CONSTRUCTION REQUIRES AUTHORIZATION AND IS PERMITTED ONLY AS REQUIRED FOR CONSTRUCTION. FENCE MUST BE RESTORED TO ORIGINAL LOCATION AS SOON AS PRACTICAL AS CONSTRUCTION ACTIVITIES PERMIT.
5. ACTIVITIES PROHIBITED WITHIN THE TPZ INCLUDE:
   A. STORAGE OF PARKED VEHICLES, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS, INCLUDING BUT NOT LIMITED TO PAINT, PETROLEUM PRODUCTS, CONCRETE, STUCCO MIX OR DIRTY WATER
   B. THE USE OF TREE TRUNKS AS A WINCH SUPPORT, ANCHORAGE, AS A TEMPORARY POWER POLE, SIGN POSTS OR OTHER SIMILAR FUNCTION
   C. CUTTING OF TREE ROOTS BY UTILITY TRENCHING, FOUNDATION DIGGING, PLACEMENT OF CURBS AND TRENCHES AND OTHER MISCELLANEOUS EXCAVATION
   D. SOIL DISTURBANCE, SOIL COMPACTION OR GRADE CHANGES
   E. DRAINAGE CHANGES
   F. FIRES
6. ACTIVITIES PERMITTED OR REQUIRED WITHIN THE TPZ INCLUDE:
   A. MULCHING - DURING CONSTRUCTION, IT IS RECOMMENDED THAT WOOD CHIPS OR SIMILAR MATERIAL BE SPREAD WITHIN THE TPZ TO A 2-INCH DEPTH, LEAVING THE TRUNK CLEAR OF MULCH.
   B. ROOT BUFFER - WHEN AREAS WITHIN THE TPZ CANNOT BE FENCED, A ROOT BUFFER IS REQUIRED AND SHALL COVER THE ROOT ZONE.
   C. IRRIGATION, AERATION, FERTILIZING OR OTHER BENEFICIAL PRACTICES THAT HAVE BEEN SPECIFICALLY APPROVED FOR USE BY THE LANDSCAPE ARCHITECT WITHIN THE TPZ.
   D. EXISTING IRRIGATION IS TO BE MAINTAINED AND OPERATED 100% DURING CONSTRUCTION. SEE IRRIGATION PLANS.
7. ROOT BUFFER SHALL BE DEFINED AS: A TEMPORARY LAYER OF MATERIAL TO PROTECT THE SOIL TEXTURE AND ROOTS. THE BUFFER SHALL CONSIST OF A BASE COURSE OF BARK OR WOOD CHIPS SPREAD OVER THE ROOT AREA, KEEPING ONE FOOT CLEAR OF THE TRUNK CLEAR, TO A 4- 6' DEPTH, CAPPED BY A BASE COURSE OF 3/4-INCH QUARRY GRAVEL TO STABILIZE A 3/4' PLYWOOD ON TOP.
8. EROSION CONTROL
   IF A TREE IS ADJACENT TO OR IN THE IMMEDIATE PROXIMITY TO A GRADE SLOPE OF 8% (23 DEGREES) OR MORE, THEN APPROVED EROSION CONTROL OR SILT BARRIERS SHALL BE INSTALLED OUTSIDE THE TPZ TO PREVENT SILTATION AND/OR EROSION WITHIN THE TPZ.
9. TUNNELING AND DIRECTIONAL DRILLING
   IF TRENCHING OR PIPE INSTALLATION HAS BEEN APPROVED WITHIN THE TPZ, THEN THE TRENCH SHALL BE EITHER CUT BY HAND, AIR SPADE OR BY MECHANICALLY BORING THE TUNNEL UNDER THE ROOTS WITH A HORIZONTAL DIRECTIONAL DRILL AND HYDRAULIC OR PNEUMATIC AIR EXCAVATION TECHNOLOGY. IN ALL CASES, INSTALL THE UTILITY PIPE, IMMEDIATELY BACKFILL WITH SOIL AND SOAK WITHIN THE SAME DAY.
10. TREE PRUNING AND SURGERY
    A. ROOT PRUNING: ROOT PROTECTION MEASURES MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. NECESSARY ROOT PRUNING IS BEST ACCOMPLISHED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES WHEN EXCAVATION EQUIPMENT WILL BE USED. AFTER BEING EXPOSED BY HAND OR AIR EXCAVATION, ROOTS ARE PRUNED UNDER ARBORIST SUPERVISION. CONSTRUCTION ACTIVITIES ARE THEN FREE TO OCCUR OUTSIDE OF THE ROOT PRUNING BOUNDARY.
    B. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS. CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF UTILITIES. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
10. TREE REMOVAL PROCEDURE
    TREES MAY ONLY BE REMOVED IF SPECIFICALLY NOTED ON PLAN OR APPROVED FOR REMOVAL BY THE OWNER. WHEN TREES ARE REMOVED, TREE REMOVAL PRACTICES APPLY:
    A. ANY TREE TO BE REMOVED THAT MAY IMPACT A PROTECTED TREE SHALL BE DONE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.
    B. THE REMOVAL OF TREES THAT EXTEND INTO THE BRANCHES OR ROOTS OF PROTECTED TREES SHALL NOT BE ATTEMPTED BY DEMOLITION OR CONSTRUCTION PERSONNEL, GRADING OR OTHER HEAVY EQUIPMENT. A CERTIFIED ARBORIST OR CERTIFIED TREE WORKER SHALL REMOVE OR OVERSEE THE REMOVAL OF THE TREE IN A MANNER THAT CAUSES NO DAMAGE ABOVE OR BELOW GROUND TO TREES THAT SHALL REMAIN.
11. SUPPLEMENTAL IRRIGATION:
    PROVIDE SUPPLEMENTAL IRRIGATION, AS REQUIRED, BASED ON THE LEVEL OF ROOT LOSS, SOIL CONDITIONS, TREE HEALTH AND TIME OF YEAR.



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REGISTERED PROFESSIONAL ENGINEER BARTON J. BRELJE No. 40512 Exp. 3-31-21 CIVIL STATE OF CALIFORNIA
01-18-21

Terra Linda High School

Increment 1

New Gym & Frontage Improvements

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

ARCH PROJECT NO:	1854.00/2528.10
DRAWN BY:	PIT
DRAWING SCALE:	AS SHOWN
PTN:	#65466-39

100% CD

JANUARY 18, 2021

SHEET TITLE

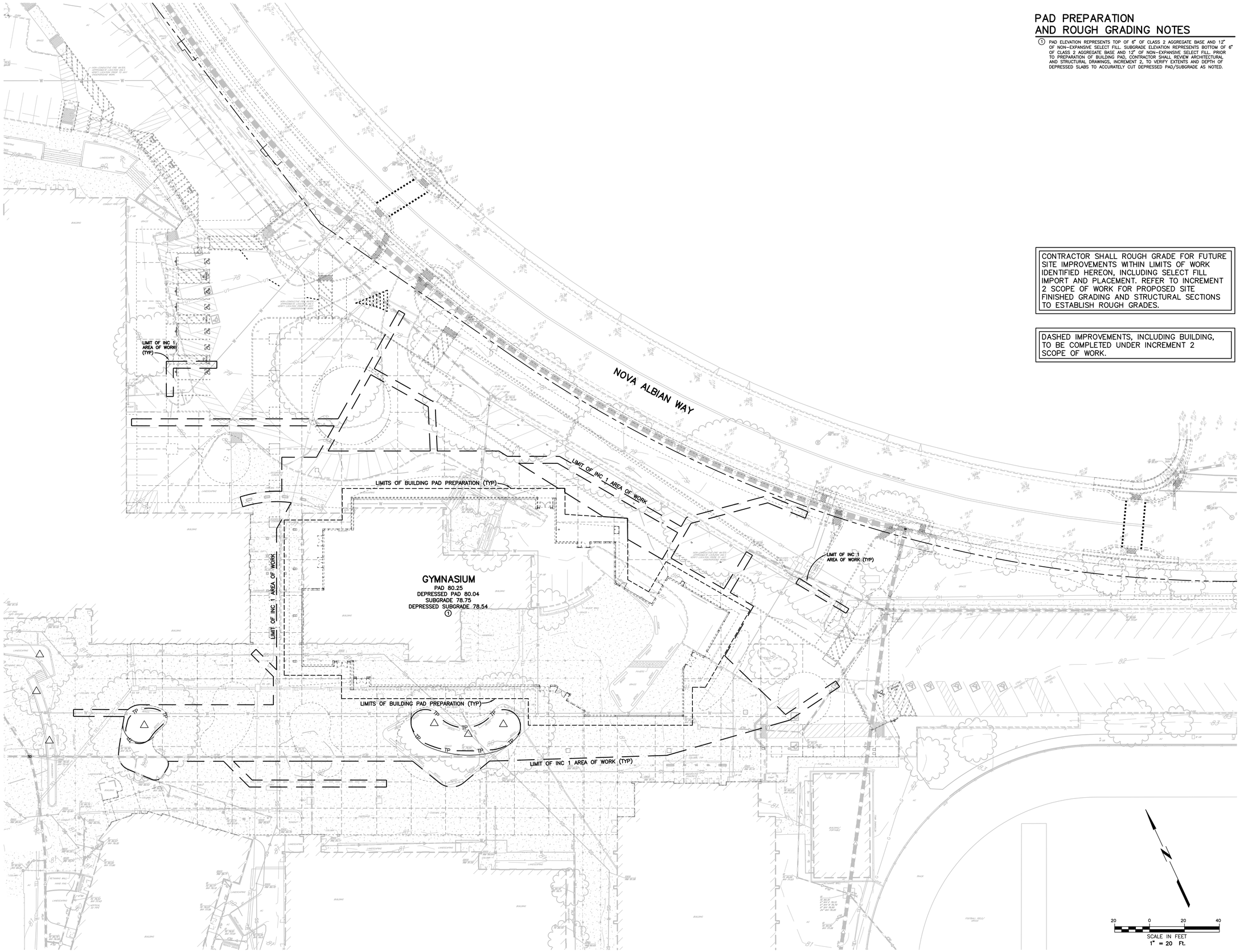
DEMOLITION PLAN

SHEET NUMBER

C-1.1

TAB: Inc1 C-1.1 Demo

01-18-21 erickson \2528\dwg\2528 10\2528.10 PLAN.dwg



PAD PREPARATION AND ROUGH GRADING NOTES

1. PAD ELEVATION REPRESENTS TOP OF 6" OF CLASS 2 AGGREGATE BASE AND 12" OF NON-EXPANSIVE SELECT FILL. SUBGRADE ELEVATION REPRESENTS BOTTOM OF 6" OF CLASS 2 AGGREGATE BASE AND 12" OF NON-EXPANSIVE SELECT FILL. PRIOR TO PREPARATION OF BUILDING PAD, CONTRACTOR SHALL REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS, INCREMENT 2, TO VERIFY EXTEMTS AND DEPTH OF DEPRESSED SLABS TO ACCURATELY CUT DEPRESSED PAD/SUBGRADE AS NOTED.

CONTRACTOR SHALL ROUGH GRADE FOR FUTURE SITE IMPROVEMENTS WITHIN LIMITS OF WORK IDENTIFIED HEREON, INCLUDING SELECT FILL IMPORT AND PLACEMENT. REFER TO INCREMENT 2 SCOPE OF WORK FOR PROPOSED SITE FINISHED GRADING AND STRUCTURAL SECTIONS TO ESTABLISH ROUGH GRADES.

DASHED IMPROVEMENTS, INCLUDING BUILDING, TO BE COMPLETED UNDER INCREMENT 2 SCOPE OF WORK.

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JANUARY 18, 2021

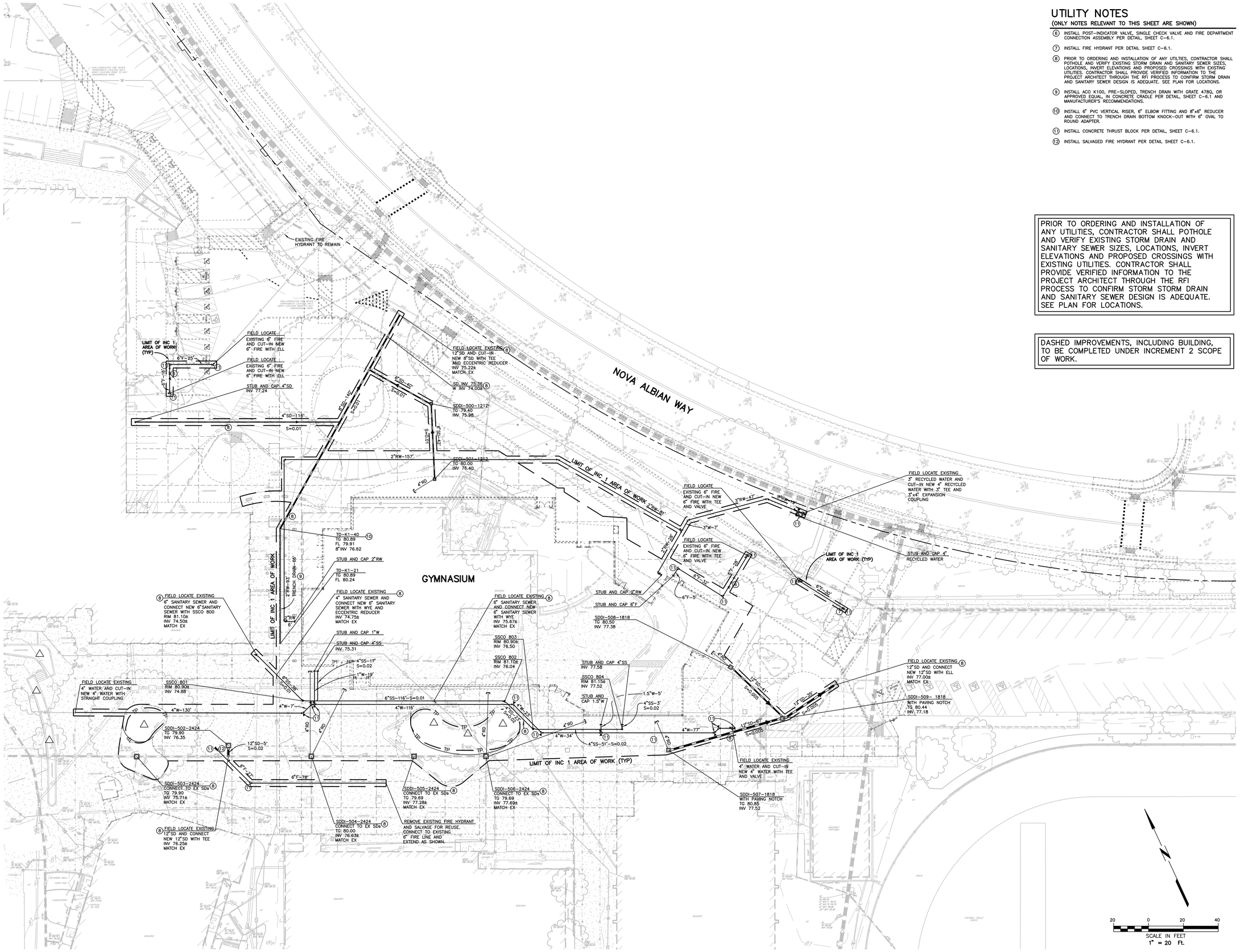
SHEET TITLE

PAD PREPARATION & ROUGH GRADING PLAN

SHEET NUMBER

C-2.1

TAB: Inc1 C-2.1 Pad and R-Grad
01-18-21 erickson \2528\dwg\2528 10\2528.10 PLAN.dwg



UTILITY NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

6. INSTALL POST-INDICATOR VALVE, SINGLE CHECK VALVE AND FIRE DEPARTMENT CONNECTION ASSEMBLY PER DETAIL, SHEET C-6.1.
7. INSTALL FIRE HYDRANT PER DETAIL SHEET C-6.1.
8. PRIOR TO ORDERING AND INSTALLATION OF ANY UTILITIES, CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING STORM DRAIN AND SANITARY SEWER SIZES, LOCATIONS, INVERT ELEVATIONS AND PROPOSED CROSSINGS WITH EXISTING UTILITIES. CONTRACTOR SHALL PROVIDE VERIFIED INFORMATION TO THE PROJECT ARCHITECT THROUGH THE RFI PROCESS TO CONFIRM STORM DRAIN AND SANITARY SEWER DESIGN IS ADEQUATE. SEE PLAN FOR LOCATIONS.
9. INSTALL ACO K100, PRE-SLOPED, TRENCH DRAIN WITH GRATE 478Q, OR APPROVED EQUAL, IN CONCRETE CRADLE PER DETAIL, SHEET C-6.1 AND MANUFACTURER'S RECOMMENDATIONS.
10. INSTALL 6" PVC VERTICAL RISER, 6" ELBOW FITTING AND 8"x6" REDUCER AND CONNECT TO TRENCH DRAIN BOTTOM KNOCK-OUT WITH 6" OVAL TO ROUND ADAPTER.
11. INSTALL CONCRETE THRUST BLOCK PER DETAIL, SHEET C-6.1.
12. INSTALL SALVAGED FIRE HYDRANT PER DETAIL SHEET C-6.1.

PRIOR TO ORDERING AND INSTALLATION OF ANY UTILITIES, CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING STORM DRAIN AND SANITARY SEWER SIZES, LOCATIONS, INVERT ELEVATIONS AND PROPOSED CROSSINGS WITH EXISTING UTILITIES. CONTRACTOR SHALL PROVIDE VERIFIED INFORMATION TO THE PROJECT ARCHITECT THROUGH THE RFI PROCESS TO CONFIRM STORM STORM DRAIN AND SANITARY SEWER DESIGN IS ADEQUATE. SEE PLAN FOR LOCATIONS.

DASHED IMPROVEMENTS, INCLUDING BUILDING, TO BE COMPLETED UNDER INCREMENT 2 SCOPE OF WORK.

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REGISTERED PROFESSIONAL ENGINEER PAUL T. BARTHOLOMEW No. 40512 Exp. 3-31-21 CIVIL STATE OF CALIFORNIA

01-18-21

Terra Linda High School

Increment 1

New Gym & Frontage Improvements

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

ARCH PROJECT NO:	1854.00/2528.10
DRAWN BY:	PIT
DRAWING SCALE:	AS SHOWN
PTN:	#65466-39

100% CD

JANUARY 18, 2021

SHEET TITLE

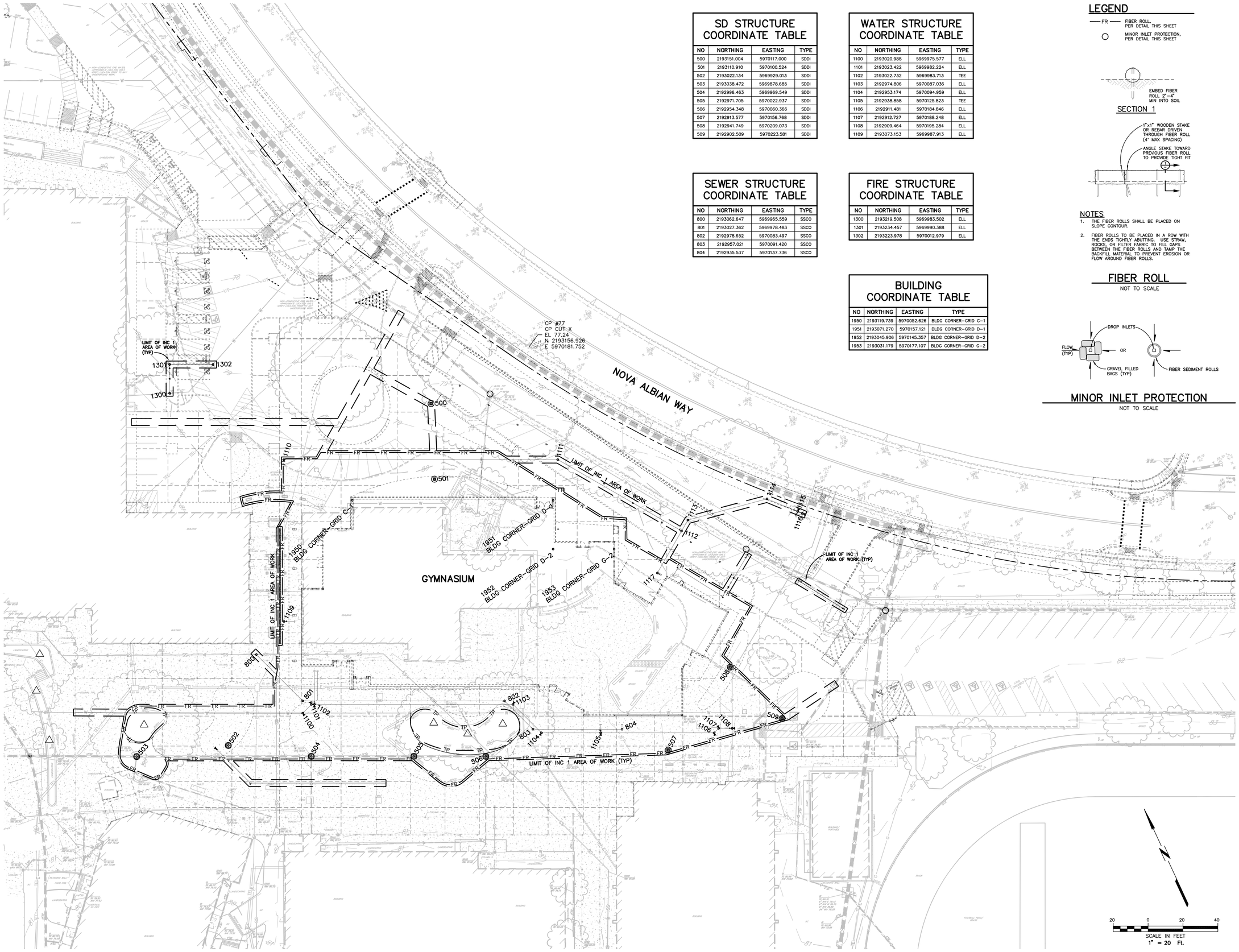
UTILITY PLAN

SHEET NUMBER

C-3.1

TAB: Inc1 C-3.1 UTIL

01-18-21 erickson \2528\dwg\2528 10\2528.10 PLAN.dwg



SD STRUCTURE COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
500	2193151.004	5970117.000	SDDI
501	2193110.910	5970100.524	SDDI
502	2193022.134	5969929.013	SDDI
503	2193038.472	5969878.685	SDDI
504	2192996.463	5969969.549	SDDI
505	2192971.705	5970022.937	SDDI
506	2192954.348	5970060.366	SDDI
507	2192913.577	5970156.768	SDDI
508	2192941.749	5970209.073	SDDI
509	2192902.509	5970223.581	SDDI

WATER STRUCTURE COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
1100	2193020.988	5969975.577	ELL
1101	2193023.422	5969982.224	ELL
1102	2193022.732	5969983.713	TEE
1103	2192974.806	5970087.036	ELL
1104	2192953.174	5970094.959	ELL
1105	2192938.858	5970125.823	TEE
1106	2192911.481	5970184.846	ELL
1107	2192912.727	5970188.248	ELL
1108	2192909.464	5970195.284	ELL
1109	2193073.153	5969987.913	ELL

SEWER STRUCTURE COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
800	2193062.647	5969965.559	SSCO
801	2193027.362	5969978.483	SSCO
802	2192978.652	5970083.497	SSCO
803	2192957.021	5970091.420	SSCO
804	2192935.537	5970137.736	SSCO

FIRE STRUCTURE COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
1300	2193219.508	5969983.502	ELL
1301	2193234.457	5969990.388	ELL
1302	2193223.978	5970012.979	ELL

BUILDING COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
1950	2193119.739	5970052.626	BLDG CORNER-GRID C-1
1951	2193071.270	5970157.121	BLDG CORNER-GRID D-1
1952	2193045.906	5970145.357	BLDG CORNER-GRID D-2
1953	2193031.179	5970177.107	BLDG CORNER-GRID G-2

LEGEND

— FR — FIBER ROLL, PER DETAIL THIS SHEET

○ MINOR INLET PROTECTION, PER DETAIL THIS SHEET

NOTES

1. THE FIBER ROLLS SHALL BE PLACED ON SLOPE CONTOUR.
2. FIBER ROLLS TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL GAPS BETWEEN THE FIBER ROLLS AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND FIBER ROLLS.

FIBER ROLL

NOT TO SCALE

MINOR INLET PROTECTION

NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER — PAUL BARTHOLOMEW — No. 40512 — Exp. 3-31-21 — CIVIL — STATE OF CALIFORNIA — 01-18-21

Terra Linda High School

Increment 1

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DRAWN BY:	PIT
DRAWING SCALE:	AS SHOWN
PTN:	#65466-39

100% CD

JANUARY 18, 2021

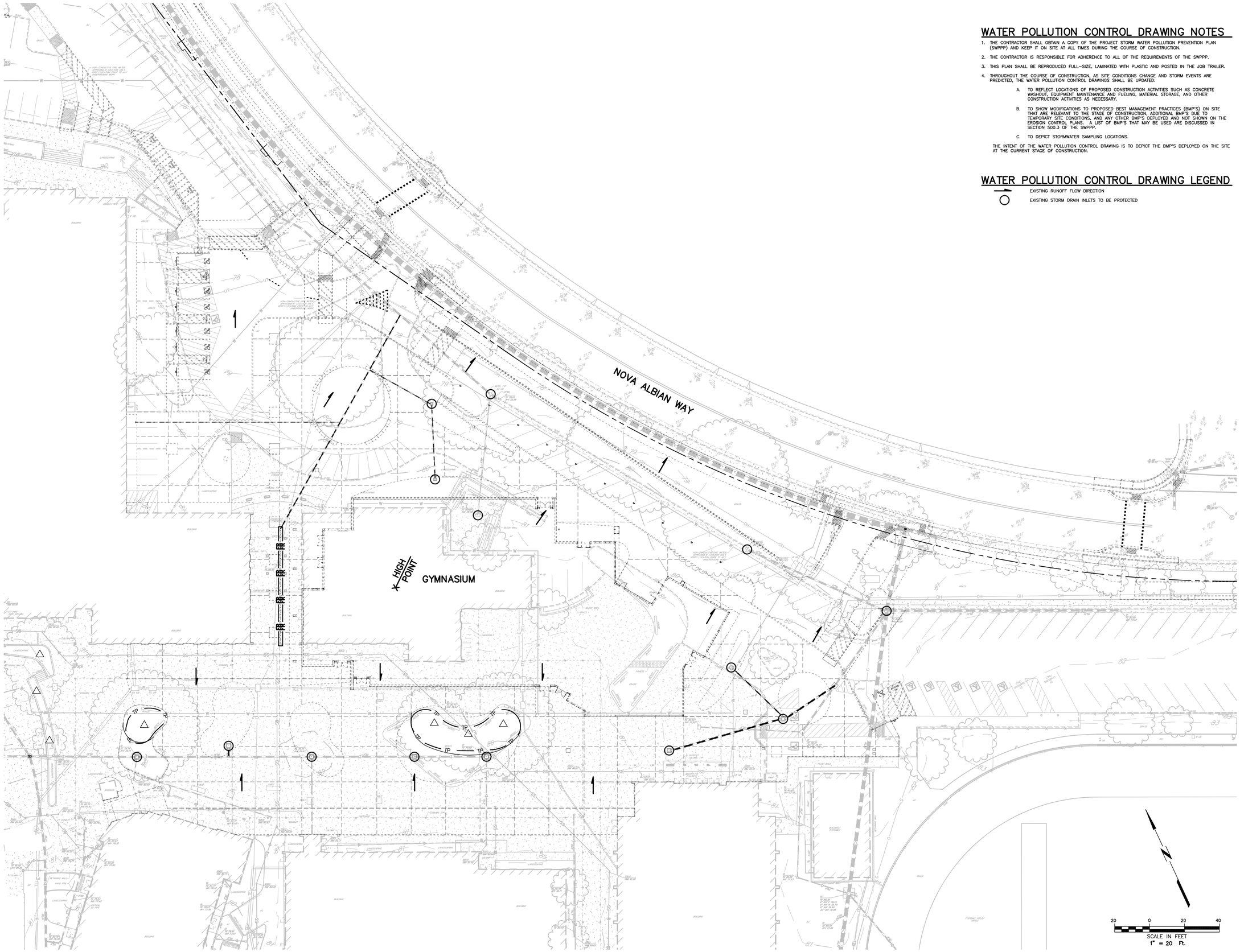
SHEET TITLE

EROSION CONTROL & LAYOUT PLAN

SHEET NUMBER

C-4.1

01-18-21 erickson \2528\dwg\2528 10\2528.10 PLAN.dwg TAB: Inc1 C-4.1 EC and Layout



WATER POLLUTION CONTROL DRAWING NOTES

1. THE CONTRACTOR SHALL OBTAIN A COPY OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND KEEP IT ON SITE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL OF THE REQUIREMENTS OF THE SWPPP.
3. THIS PLAN SHALL BE REPRODUCED FULL-SIZE, LAMINATED WITH PLASTIC AND POSTED IN THE JOB TRAILER.
4. THROUGHOUT THE COURSE OF CONSTRUCTION, AS SITE CONDITIONS CHANGE AND STORM EVENTS ARE PREDICTED, THE WATER POLLUTION CONTROL DRAWINGS SHALL BE UPDATED:
   - A. TO REFLECT LOCATIONS OF PROPOSED CONSTRUCTION ACTIVITIES SUCH AS CONCRETE WASHOUT, EQUIPMENT MAINTENANCE AND FUELING, MATERIAL STORAGE, AND OTHER CONSTRUCTION ACTIVITIES AS NECESSARY.
   - B. TO SHOW MODIFICATIONS TO PROPOSED BEST MANAGEMENT PRACTICES (BMP'S) ON SITE THAT ARE RELEVANT TO THE STAGE OF CONSTRUCTION, ADDITIONAL BMP'S DUE TO TEMPORARY SITE CONDITIONS, AND ANY OTHER BMP'S DEPLOYED AND NOT SHOWN ON THE EROSION CONTROL PLANS. A LIST OF BMP'S THAT MAY BE USED ARE DISCUSSED IN SECTION 500.3 OF THE SWPPP.
   - C. TO DEPICT STORMWATER SAMPLING LOCATIONS.

THE INTENT OF THE WATER POLLUTION CONTROL DRAWING IS TO DEPICT THE BMP'S DEPLOYED ON THE SITE AT THE CURRENT STAGE OF CONSTRUCTION.

WATER POLLUTION CONTROL DRAWING LEGEND

EXISTING RUNOFF FLOW DIRECTION

EXISTING STORM DRAIN INLETS TO BE PROTECTED

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01-18-21

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DRAWING SCALE:	AS SHOWN
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100% CD

JANUARY 18, 2021

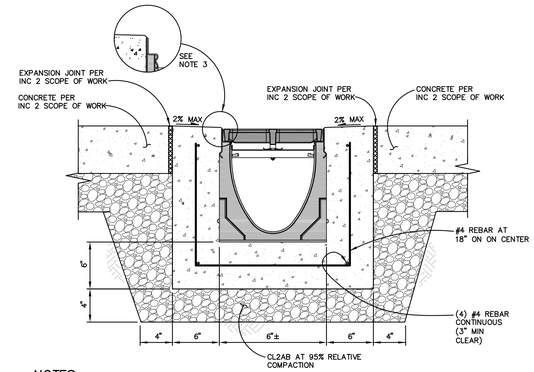
SHEET TITLE

WATER POLLUTION CONTROL DRAWING

SHEET NUMBER

C-5.1

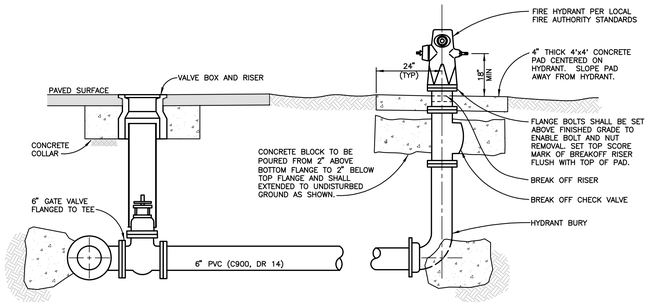
TAB: inc1 C-5.1 WPCD
01-18-21 erickson \2528\dwg\2528 10\2528.10 PLAN.dwg



NOTES
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS ARE ACHIEVED.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROXIMATE 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

TRENCH DRAIN (K100–KLASSIKDRAIN)

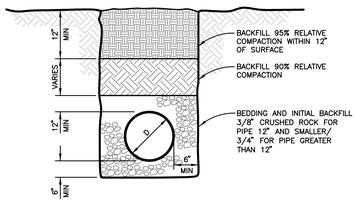
NOT TO SCALE



NOTES
1. HYDRANT PAD SHALL BE SLOPED AWAY FROM HINGE POINT IN CUT SLOPE AREAS.
2. RESTRAINED JOINTS ARE REQUIRED FROM GATE VALVE TO HYDRANT BURY.
3. BLUE REFLECTIVE PAVEMENT MARKERS SHOULD BE PLACED 6 INCHES FROM THE CENTER LINE STRIPE, OR APPROXIMATE CENTER OF THE PAVEMENT WHERE THERE IS NO CENTER LINE STRIPE, ON THE SIDE NEAREST THE FIRE HYDRANT.
4. FINISHED GRADING TO DRAIN AWAY FROM HYDRANT.
5. TRACER WIRE SHALL BE INSTALLED FROM VALVE TO HYDRANT

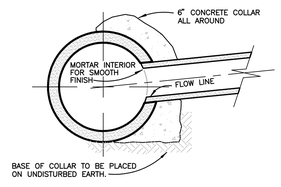
FIRE HYDRANT

NOT TO SCALE



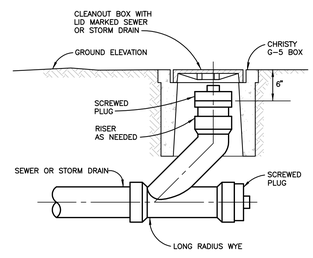
STANDARD TRENCH

NOT TO SCALE



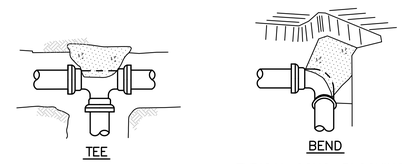
BLIND CONNECT (NEW SD TO OLD SD)

NOT TO SCALE

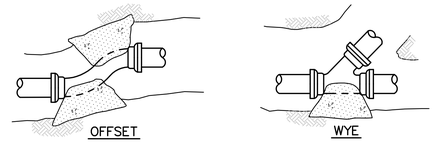


SSCO/SDCO

NOT TO SCALE



TYPICAL CONC. BLOCKING SHOWN IN PERSPECTIVE



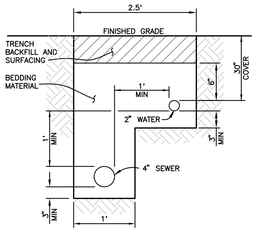
NOTES
1. SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.
2. CONCRETE BLOCKING, CAST–IN–PLACE, TO EXTEND FROM BELLS OF FITTINGS TO UNDISTURBED SOIL AND ENTIRE BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
3. IN USING THE THRUST BLOCKING TABLE, ASSUME 1000 P.S.F. BEARING CAPACITY UNLESS OTHERWISE SHOWN ON THE PLANS. THE DESIGN ENGINEER SHALL SPECIFY THRUST BLOCKING REQUIREMENTS FOR ALL OTHER SOIL BEARING CONDITIONS.
4. FOR PLUGGED LEG(S) OF TEE OR CROSS, USE HARNESS TYPE BLOCKING AND CONCRETE BLOCKING INDICATED IN TABLE.

MIN REQUIRED BEARING AREA IN SF FOR 200 PSI TEST PRESSURE						
PIPE SIZE	SOIL BEARING CAPACITY	HARNESS BLOCKS *	TEES & DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS
6"	1000	8	8	12	6	4
8"	1000	14	14	20	10	6
12"	1000	32	32	44	24	12
14"	1000	44	44	60	32	36
18"	1000	56	56	84	42	28

* BEARING AREA BELOW BOTTOM OF TRENCH AGAINST UNDISTURBED GROUND.

CONCRETE THRUST BLOCKING

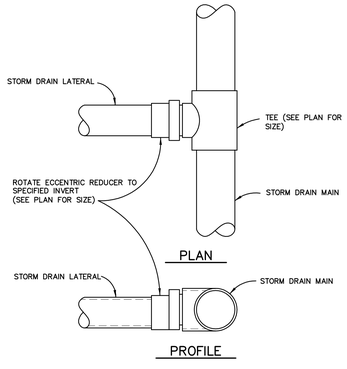
NOT TO SCALE



NOTE
1. TRENCH SHALL BE "STEPPED" AS SHOWN.

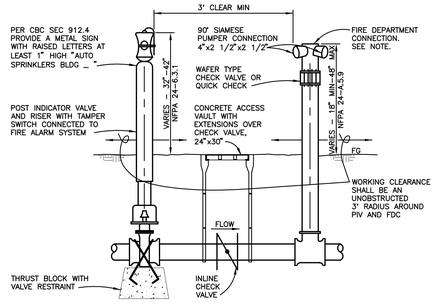
SHARED TRENCH

NOT TO SCALE



BLIND CONNECTION (NEW SD TO NEW SD)

NOT TO SCALE



NOTE
ABOVE GRADE PIPE SHALL BE GALVANIZED AND BELOW GRADE PIPE SHALL BE DUCTILE IRON.

PIV/CV/FDC

NOT TO SCALE

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01-18-21

Terra Linda High School

Increment 1

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San Rafael, CA 94903

San Rafael City Schools

ARCH PROJECT NO:	1854.00/2528.10
DRAWN BY:	PIT
DRAWING SCALE:	AS SHOWN
PTN:	#65466-39

100% CD

JANUARY 18, 2021

SHEET TITLE

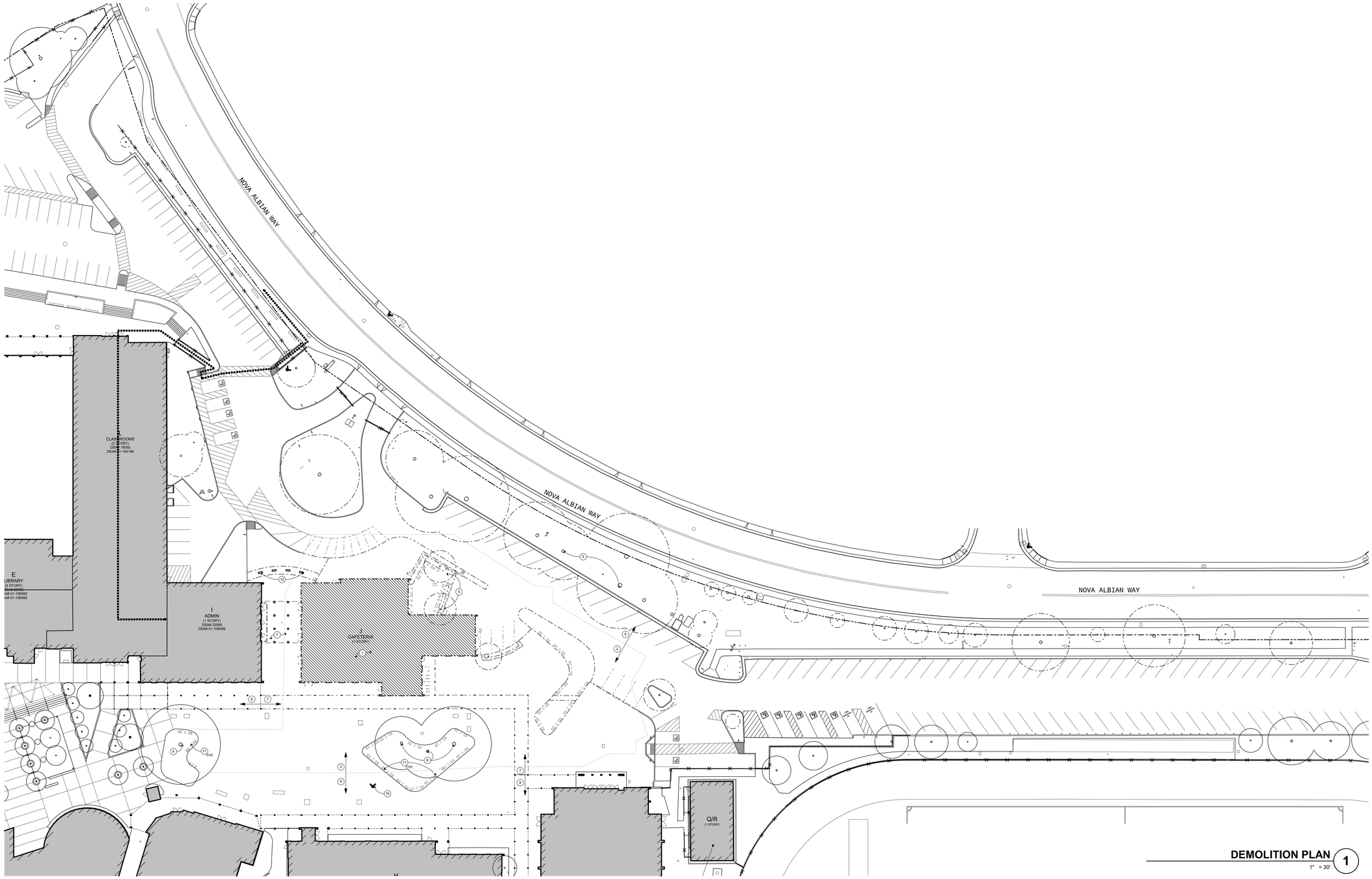
DETAILS

SHEET NUMBER

C-6.1

TAB: Inc1 C-6.1 DETAIL

01-18-21 erickson \2528\dwg\2528 10\2528.10 DETAIL.dwg



DEMOLITION PLAN 1

1" = 30'

DEMOLITION SITE PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY CONFIRM EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. REFER TO CIVIL DRAWINGS FOR EXISTING UNDERGROUND UTILITY MAINS AND SERVICE LINES.
3. IF UTILITIES TO REMAIN IN PLACE ARE DAMAGED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY AND MAKE REPAIRS TO SAID LINES AS QUICKLY AS POSSIBLE, AT NO EXPENSE TO THE OWNER.
4. DEMOLITION OF UTILITIES TO BE STAGED AS REQUIRED SO THAT EXISTING SERVICE TO REMAINING BUILDINGS ARE NOT INTERRUPTED.
5. WITHIN THE LIMIT OF DEMOLITION, REMOVE ALL PAVING AND AGGREGATE BASE, STRUCTURES, TREES AND PLANTS, TOPSOILS, ORGANIC MATERIAL AND MISCELLANEOUS ITEMS UNLESS OTHERWISE NOTED ON PLANS. EXCAVATE TO PAD ELEVATION OR SUBGRADE DEPTH FOR PROPOSED CONSTRUCTION AS INDICATED ON PROJECT DOCUMENTS. REFER TO GEOTECH REPORT FOR ADDITIONAL INFORMATION.
6. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
7. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
8. TO ACCOMPLISH THE FULL SCOPE OF WORK, ADDITIONAL WORK MAY BE REQUIRED BEYOND THE INDICATED SITE WORK. REFER TO ALL CONSTRUCTION DOCUMENTS. ALL SUCH WORK SHALL BE PATCHED AND REPAIRED TO ORIGINAL CONDITION.

DEMOLITION SITE PLAN NOTES

1. REMOVE (E) BUILDING & (E) FOUNDATIONS, S.C.D.
2. REMOVE ALL (E) SURFACE IMPROVEMENTS, S.C.D.
3. (E) CIVIL & LANDSCAPE EQUIPMENT TO REMAIN, S.C.D.
4. (E) ELECTRIC EQUIPMENT TO REMAIN, S.E.D.
5. REMOVE (E) TREE
6. (E) TREE TO REMAIN, PROTECT IN PLACE
7. REMOVE (E) COVERED WALK & (E) COLUMNS TO CONCRETE FACE OF (E) BUILDING
8. (E) COVERED WALK & (E) COLUMNS TO REMAIN, PROTECT IN PLACE.
9. (E) SUFACE IMPROVEMENTS TO REMAIN, S.C.D.
10. SALVAGE (E) FIRE HYDRANT FOR REUSE, S.C.D.
11. REMOVE (E) BENCHES
12. REMOVE (E) ENTRY ARCH & (E) ARCH FOUNDATIONS

LEGEND

- REMOVE (E) BUILDING, S.C.D.
- (E) BUILDING TO REMAIN
- PROPERTY LINE
- (E) FENCES
- ACCESSIBLE PATH OF TRAVEL DURING DEMOLITION SEE DSA APP 01-104196
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION
- PIV — POST INDICATOR VALVE
- (E) TREE TO REMAIN, PROTECT IN PLACE, S.C.D.
- REMOVE (E) TREE, S.C.D.

KEYPLAN

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LICENSED ARCHITECT
STEVEN KWOK
LICENSE # C20161
EXP APRIL 30, 2021
STATE OF CALIFORNIA

SIGNED: JANUARY 26, 2021

Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

DSA APP NO. 01-119221

ARCH PROJECT NO: 1854.00
DRAWN BY:
DRAWING SCALE:
PTN: 65466-39 FILE NO: 21-H1

100% CD

JANUARY 26, 2021

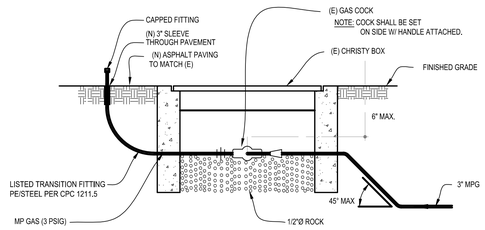
SHEET TITLE

DEMOLITION SITE PLAN

SHEET NUMBER

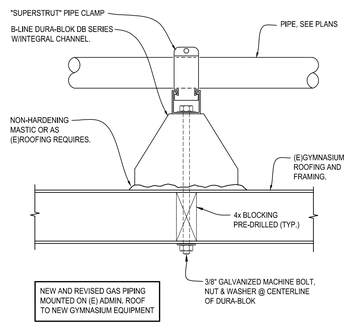
A-1.1

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\04-CD\1854.00 SITE PLAN - INC 1.pln:1/26/2021 9:52 AM



(A) GAS SHUT OFF IN YARD BOX DETAIL

SCALE: NONE



NOTE: SUPPORTS SHALL BE AT 8'-0" ON CENTER & AT ALL CHANGE OF DIRECTION

(B) NEW PIPE SUPPORT ON ROOF DETAIL

SCALE: NONE

PLUMBING GENERAL NOTES

A. ALL CONNECTIONS FROM NEW FIXTURES TO EXISTING DOMESTIC WATER SHALL BE PROVIDED WITH NEW RED BRASS NIPPLES.

B. PROVIDE ACCESS PANELS FOR ALL WATER HAMMER ARRESTORS LOCATED IN NON-ACCESSIBLE AREAS (WALLS, CEILINGS, AND SUB-FLOORING), SEE SPECIFICATIONS FOR ACCESS DOOR MODEL NUMBERS.

C. LOCATION OF EXISTING SANITARY SEWER, VENT PIPING, DOMESTIC WATER, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF OF EXISTING SYSTEMS PRIOR TO START OF WORK.

D. MAKE ALL NECESSARY UTILITY OFFSETS AS REQUIRED TO CONNECT TO EXISTING SANITARY SEWER, VENT AND DOMESTIC WATER PIPING.

E. ALL UNUSED PIPING ABOVE GRADE SHALL BE REMOVED. ALL UNUSED PIPING BELOW GRADE SHALL BE CAPPED AND ABANDONED. CAP DEAD BRANCHES AS CLOSE AS POSSIBLE TO LIVE MAINS.

F. SEE FIXTURE CONNECTION SCHEDULE FOR FIXTURE BRANCH LINE SIZES.

G. SEE DRAIN, WASTE, AND VENT PLAN FOR FIXTURE IDENTIFICATION.

APPLICABLE GOVERNING CODES:

2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA PLUMBING CODE

PLUMBING ANCHORAGE NOTES

PLUMBING ANCHORAGE NOTES:

ALL PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. 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 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.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 PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), 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 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 OSHPD PRE-APPROVAL (OPM #)

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
1 / P-1		DRAWING NUMBER
A / P-1		DETAIL NUMBER / DRAWING NUMBER
WH / 1		EQUIPMENT IDENTIFICATION
		PIPE UP
		PIPE DOWN
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HOT WATER RETURN LINE
MG	MG	MEDIUM PRESSURE GAS (2 - 5 PSIG)
G	G	GAS LINE (LOW PRESSURE)
	GM	GAS METER ASSEMBLY
	S OR W	SANITARY SEWER OR WASTE LINE
	V	VENT LINE
	BG	PIPE BELOW GRADE
		DIRECTION OF FLOW
F	F	FIRE PROTECTION WATER SUPPLY
CD	CD	CONDENSATE DRAIN
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	GCO	GRADE CLEANOUT
GM	GM	GAS METER
	SA	SHOCK ABSORBER
	CV	CHECK VALVE
	GC	GAS COCK
	STR	STRAINER
		UNION
	POC	POINT OF CONNECTION
	AP	ACCESS PANEL
	BF	BELOW FLOOR
	CFH	CUBIC FEET PER HOUR
	CR	CONDENSATE RECEIVER
	DIW	DOWN IN WALL
	DN	DOWN
	DTBG	DOWN TO BELOW GRADE
	DTR	DOWN THROUGH ROOF
	GA	GAUGE
	HB	HOSE BIBB
	IFC	IN FURRED CEILING
	ITS	IN TRUSS SPACE
	IW	IN WALL
	NIPS	NOT IN PLUMBING SECTION
	SHTMTL	SHEET METAL
	SMD	SEE MECHANICAL DRAWINGS
	TP	TRAP PRIMER
	UIW	UP IN WALL
	UTR	UP THROUGH ROOF
	VTR	VENT THROUGH ROOF

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SIGNED: JUNE 15, 2020

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Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

REVISIONS

ARCH PROJECT NO:	1854.00
DRAWN BY:	MEC
DRAWING SCALE:	AS SHOWN
PTN:	65466-39

100% CD

FEB. 1, 2021

SHEET TITLE

PLUMBING SCHEDULES & LEGENDS

SHEET NUMBER

P-1.0

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\02-SD\1854.00 Base Plan.pln:2/4/2020 4:17 PM

1 GYMNASIUM SITE PLUMBING OVERALL PLAN

SCALE: 1"=30'-0"

PLUMBING SITE DEMOLITION NOTES

1. EXISTING SITE GAS MAIN CONNECTION LOCATIONS AND BRANCH LATERALS OR RISERS AT BUILDINGS, INCLUDING ROUTING AND SIZES SHOWN ON PLANS, IS BEST AVAILABLE DATA FROM ARCHIVE DRAWINGS AND FIELD INVESTIGATION FOR EXPECTED POINTS OF CONNECTION (POC) TO NEW SCOPE. ALERT E.O.R. TO CONDITIONS SIGNIFICANTLY IMPACTING SCOPE AS SHOWN.
2. FIELD VERIFY EXISTING MAIN GAS METER OUTLET PRESSURE AND PSIG DELIVERED TO EXISTING KITCHEN PRIOR TO DEMOLITION OF REGULATOR AND CAPPING PIPE FOR NEW SCOPE EXTENSION. ALERT E.O.R. OF DELIVERY PRESSURE LESS THAN MIN. 3 PSIG FROM MAIN SOURCE.
3. VERIFY SEISMIC SHUT-OFF VALVE AT EXISTING MAIN GAS METER FUNCTIONALITY PER 2019 CPC AND ADDITIONAL SEISMIC VALVE PROTECTION AT EXISTING KITCHEN. VALVE TO REMAIN AND PROTECT IN PLACE IF RESIDING OUTSIDE DEMOLITION BOUNDARY.

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SHEET TITLE

GYMNASIUM SITE PLUMBING OVERALL PLAN

SHEET NUMBER

P-2.1

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\02-SD\1854.00 Base Plan.pln:2/4/2020-4:17 PM

1 GYMNASIUM SITE PLUMBING OVERALL PLAN

SCALE: 1"=30'-0"

PLUMBING SITE DEMOLITION NOTES

1. EXISTING SITE GAS MAIN CONNECTION LOCATIONS AND BRANCH LATERALS OR RISERS AT BUILDINGS, INCLUDING ROUTING AND SIZES SHOWN ON PLANS, IS BEST AVAILABLE DATA FROM ARCHIVE DRAWINGS AND FIELD INVESTIGATION FOR EXPECTED POINTS OF CONNECTION (POC) TO NEW SCOPE. ALERT E.O.R. TO CONDITIONS SIGNIFICANTLY IMPACTING SCOPE AS SHOWN.
2. FIELD VERIFY EXISTING MAIN GAS METER OUTLET PRESSURE AND PSIG DELIVERED TO EXISTING KITCHEN PRIOR TO DEMOLITION OF REGULATOR AND CAPPING PIPE FOR NEW SCOPE EXTENSION. ALERT E.O.R. OF DELIVERY PRESSURE LESS THAN MIN. 3 PSIG FROM MAIN SOURCE.
3. VERIFY SEISMIC SHUT-OFF VALVE AT EXISTING MAIN GAS METER FUNCTIONALITY PER 2019 CPC AND ADDITIONAL SEISMIC VALVE PROTECTION AT EXISTING KITCHEN. VALVE TO REMAIN AND PROTECT IN PLACE IF RESIDING OUTSIDE DEMOLITION BOUNDARY.

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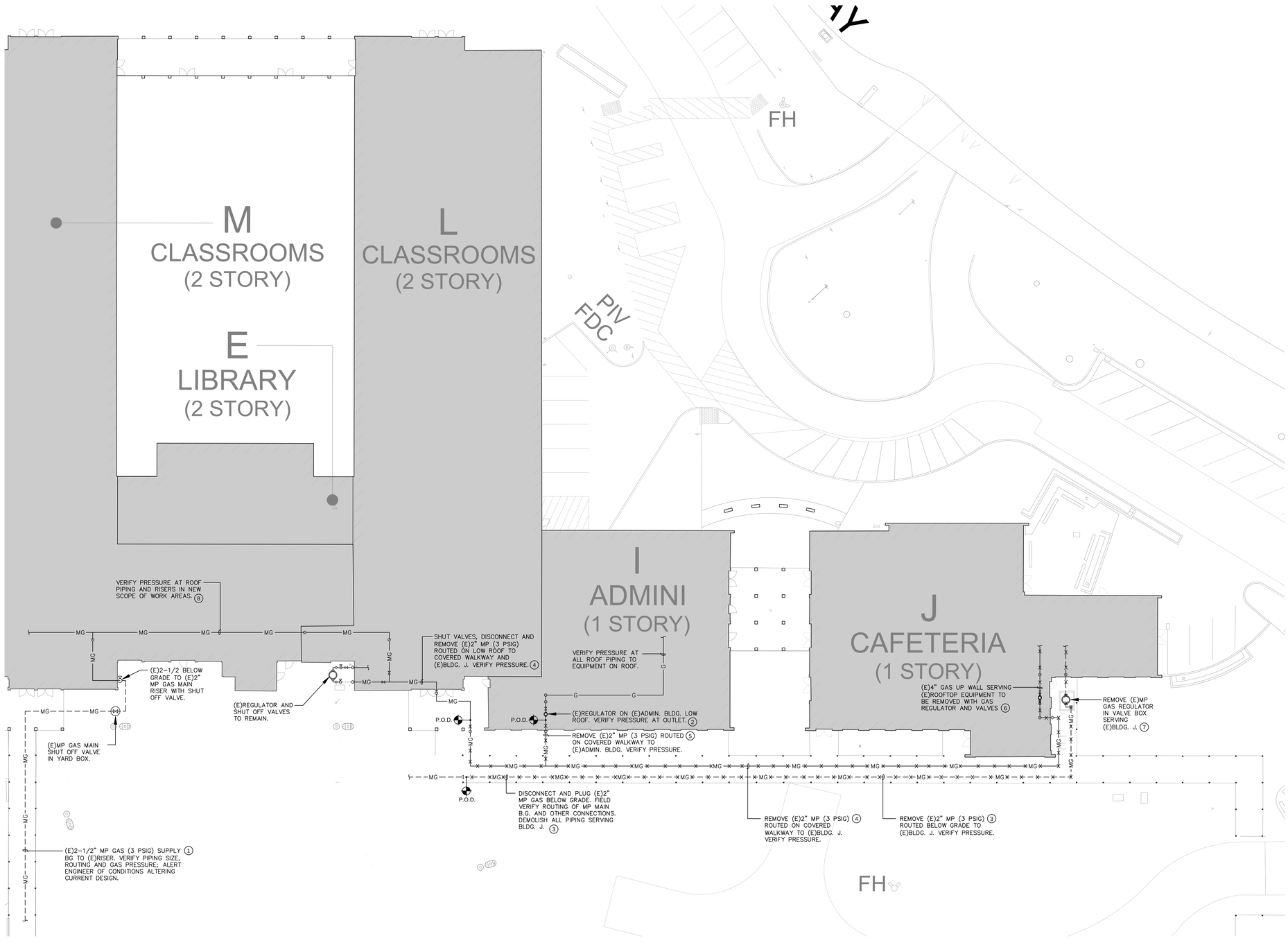
GYMNASIUM SITE PLUMBING OVERALL PLAN

SHEET NUMBER

P-2.1

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\02-SD\1854.00 Base Plan.pln:2/4/2020-4:17 PM



1 GYMNASIUM SITE PLUMBING ENLARGED DEMO PLAN

SCALE: 1/16" = 1'-0"

PLUMBING SITE DEMOLITION NOTES

1. EXISTING SITE GAS MAIN CONNECTION LOCATIONS AND BRANCH LATERALS OR RISERS AT BUILDINGS, INCLUDING ROUTING AND SIZES SHOWN ON PLANS, IS BEST AVAILABLE DATA FROM ARCHIVE DRAWINGS AND FIELD INVESTIGATION FOR EXPECTED POINTS OF CONNECTION (POC) TO NEW SCOPE. ALERT E.O.R. TO CONDITIONS SIGNIFICANTLY IMPACTING SCOPE AS SHOWN.
2. FIELD VERIFY EXISTING MAIN GAS REGULATOR OUTLET PRESSURE AND PSIG DELIVERED TO EXISTING KITCHEN AND ROOFTOP EQUIPMENT PRIOR TO DEMOLITION AND CAPPING PIPE FOR NEW SCOPE EXTENSION. ALERT E.O.R. OF DELIVERY PRESSURE LESS THAN MIN. 3 PSIG FROM MAIN SOURCE.
3. VERIFY EXISTING BELOW GRADE GAS PIPE ROUTING, ISOLATE SERVICE AT CORRESPONDING DROPS OR RISERS. PURGE DOWNSTREAM OF SHUT OFF VALVE AND PURGE PIPING SYSTEMS. COORDINATE FOR ALL ASSOCIATED EQUIPMENT SHUT DOWN PERIODS WITH DISTRICT PRIOR TO COMMENCING WORK. CAP PIPE BELOW SHUT OFF VALVE AND DEMOLISH ALL PIPING, VALVES AND ATTACHMENTS OR ENCLOSURES TO TERMINATION POINT.
4. VERIFY EXISTING GAS PIPE ROUTING ABOVE GRADE TO LOW ROOF AND COVERED WALKWAY SERVING DEMOLISHED KITCHEN AREA. ISOLATE SERVICE AT CORRESPONDING DROPS OR RISERS AND MAIN BRANCH TEE. PURGE DOWNSTREAM OF SHUT OFF VALVE AND PURGE PIPING SYSTEMS. INSTALL NEW SHUT OFF VALVE AND TEMPORARILY CAP FOR EXTENSION IN NEW WORK. COORDINATE FOR ALL ASSOCIATED EQUIPMENT SHUT DOWN PERIODS WITH DISTRICT PRIOR TO COMMENCING WORK. DEMOLISH ALL PIPING, VALVES AND ATTACHMENTS OR ENCLOSURES TO TERMINATION POINT.
5. DISCONNECT AND PURGE ADMIN BUILDING GAS SUPPLY MAIN AS SHOWN AND CAP FOR RECONNECTION IN NEW SCOPE. VERIFY EXISTING EQUIPMENT GAS LOAD REQUIREMENTS AND SUBMIT IN REPORT TO E.O.R. PLUMBING DRAWINGS ARE CONSTRUED TO BE DIAGRAMMATIC AND MINOR ALTERATIONS TO PIPING ROUTING, ETC. ARE ALLOWED **WITHOUT** ADDITIONAL COST INCURRED BY DISTRICT. MAJOR REVISIONS SHALL BE PROPOSED THROUGH ARCHITECT FOR APPROVAL BEFORE COMMENCING REVISIONS.
6. VERIFY GAS PRESSURE AT EXISTING ROOF MOUNTED REGULATOR OUTLET SERVING DEMOLISHED KITCHEN AND RECORD. REMOVE REGULATOR, VALVES AND ALL DOWNSTREAM PIPING INCLUDING ATTACHMENTS.
7. COORDINATE WITH APPROPRIATE ABATEMENT CONSULTANT REGARDING OSHA APPROVED HANDLING OF MOLDS AND OTHER TOXINS PRIOR TO DEMOLITION OF BELOW GRADE EXISTING GAS REGULATOR VAULT, PIPING AND VALVES. PURGE SYSTEM COMPLETELY AS DIRECTED, DEMOLISH AND DISPOSE OF ALL ITEMS IN ACCORDANCE WITH CODE AND OSHA REGULATIONS.

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Terra Linda High School

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SITE WORK
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San Rafael City Schools

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DRAWING SCALE:	AS SHOWN
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FEB. 1, 2021

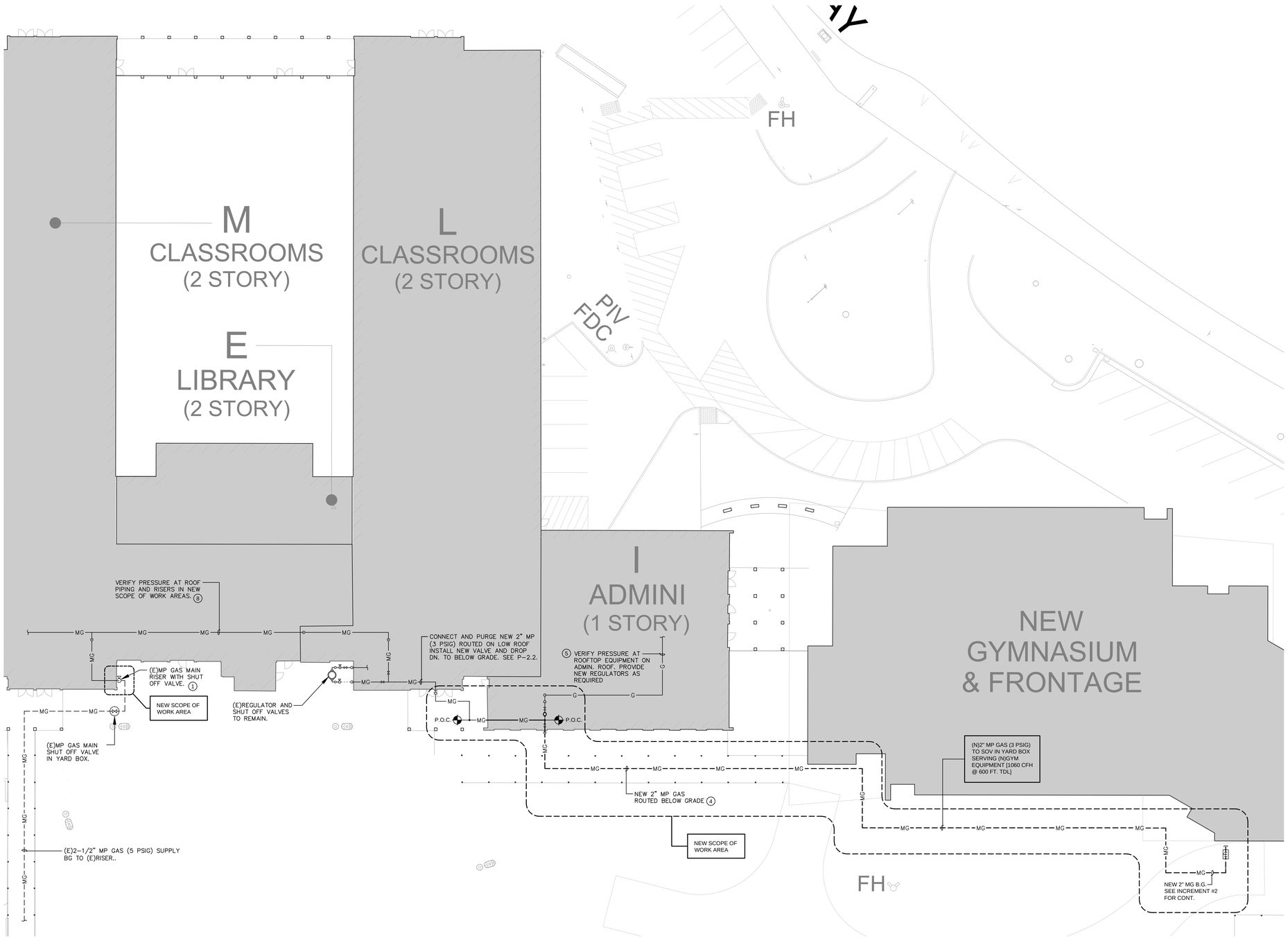
SHEET TITLE

GYMNASIUM SITE PLUMBING ENLARGED DEMO PLAN

SHEET NUMBER

P-3.1

P:\1854.00 - Terra Linda HS Gym & Frontage. SRCS\Drawings\02-SD\1854.00 Base Plan.pln;2/4/2020;4:17 PM



1 GYMNASIUM SITE PLUMBING ENLARGED UTILITY PLAN

SCALE: 1/16" = 1'-0"

PLUMBING SITE IMPROVEMENT NOTES

1. PLUMBING DRAWINGS ARE CONSTRUED TO BE DIAGRAMMATIC AND MINOR ALTERATIONS TO PIPING ROUTING, ETC. ARE ALLOWED **WITHOUT** ADDITIONAL COST INCURRED BY DISTRICT. MAJOR REVISIONS SHALL BE PROPOSED THROUGH ARCHITECT FOR APPROVAL BEFORE COMMENCING REVISIONS..
2. VERIFY EXISTING MAIN GAS REGULATOR OUTLET PRESSURE AND ADJUST TO MIN. 3 PSIG DELIVERED TO EXISTING ROOFTOP EQUIPMENT AND NEW SCOPE OF WORK PIPING. PROVIDE NEW GAS REGULATORS AT EQUIPMENT AS REQUIRED FOR INITIATION OF NEW SYSTEMS AND ADJUST AS REQUIRED. ALERT E.O.R. OF CIRCUMSTANCES WHERE MEDIUM PRESSURE DELIVERY CANNOT BE ACCOMMODATED BY EXISTING CONDITIONS, EITHER EQUIPMENT FIRING CONTROL OR PIPING SIZING PRIOR TO GAS INITIATION.
3. ROUTE NEW GAS PIPE ROUTING ABOVE GRADE ON LOW ROOF AND MAKE ELEVATION CHANGES AS REQUIRED. ATTACH PIPING TO ROOF AS PER DETAIL C/P-1.0 AND SPECIFICATIONS 22 0000. RESTRAIN ALL PIPING PER 2019 CPC.
4. ROUTE NEW BELOW GRADE GAS PIPE PER SPECIFICATIONS AND USE APPROVED FITTINGS, VALVES AND ATTACHMENTS PER SPECIFICATIONS. PURGE AND FLUSH AS DIRECTED PRIOR TO GAS INITIATION AND PRESSURE TESTING, CAP PIPING AT NEW SHUT OFF VALVE IN YARD BOX FOR FUTURE EXTENSION IN INCREMENT #2 PER/A/P-1.0.
5. INSTALL NEW GAS REGULATORS FOR ALL EXISTING EQUIPMENT IMPACTED BY NEW SCOPE OF WORK. FIELD SURVEY ALL EXITING CONDITIONS AND PRESSURES, ROUTING AND DELIVER REPORT TO GENERAL CONTRACTOR FOR SCOPE IMPACT NOT SPECIFICALLY DETAILED ON PLANS TO ACCOMMODATE ADEQUATE OPERATIONAL GAS SUPPLY PRESSURE TO NEW GYMNASIUM AND IS SUPPORTED BY EXISTING PIPING SYSTEMS AND INFRASTRUCTURE.

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SHEET TITLE

GYMNASIUM SITE PLUMBING ENLARGED UTILITY PLAN

SHEET NUMBER

P-3.2

P:\1854.00 - Terra Linda HS Gym & Frontage, SRCS\Drawings\02-SD\1854.00 Base Plan.pln;2/4/2020;4:17 PM

TERRA LINDA HS GYM - 220010\CAD\INCREMENT 1

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL 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, CHAPTER 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 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 RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE 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 CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENT 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 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 NOTE:

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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 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 PREAPPROVED INSTALLATION GUIDE (eg., OSHPD OPM FOR 2013 CBC), 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.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
2. ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

SYMBOLS LIST

	WEATHERPROOF ENCLOSURE
	CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
	CONDUIT AND WIRE RUN EXPOSED
	CONDUIT STUBBED OUT, CAPPED AND MARKED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
T	TELEPHONE SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
C	COMPUTER/DATA SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
D	TELEPHONE/DATA SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
G	#4/0 COPPER GROUNDING ELECTRODE CONDUCTOR, U.O.N.
1	NUMBERED SHEET NOTE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
CO	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
EMS	ENERGY MANAGEMENT SYSTEM
(E)	EXISTING
EQPT	EQUIPMENT
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT	EXTERIOR
FMC	FLEXIBLE METALLIC CONDUIT
FTL	FEED THROUGH LUGS
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
O.A.H.	OVERALL HEIGHT
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
STC	SIGNAL TERMINAL CABINET
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
TELE	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
WP	WEATHER PROOF, NEMA 3R
WPIU	WEATHER PROOF WHILE IN USE

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

GENERAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.
21. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
22. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
25. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
27. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
28. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.
29. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
30. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
31. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
32. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
33. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
34. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
35. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

LIST OF DRAWINGS

E-0.1 SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS

E-1.0 SITE DEMOLITION PLAN - ELECTRICAL
E-1.1 SITE PLAN - ELECTRICAL

E-7.1 DETAILS

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Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafel, CA 94903

San Rafael City Schools

REVISIONS

ARCH PROJECT NO:	1854.00
DRAWN BY:	LN/TV/JW
DRAWING SCALE:	AS NOTED
PTN:	#65466-39

100% CD

JAN. 20, 2021

SHEET TITLE

SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS

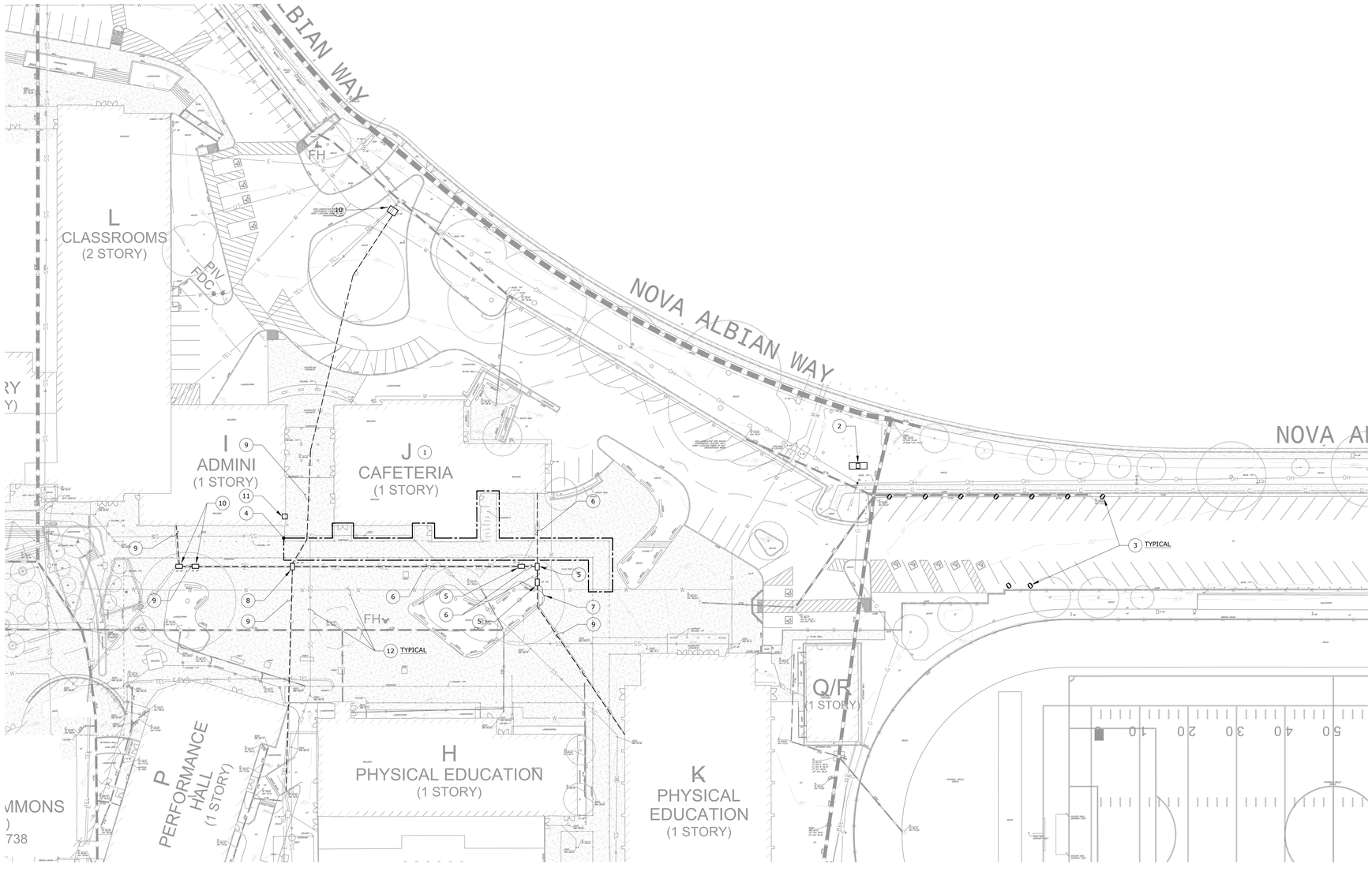
SHEET NUMBER

E-0.1

TERRA LINDA HS GYM - 220010\CAD\INCREMENT 1

NUMBERED SHEET NOTES

1. EXISTING BUILDING TO BE REMOVED. SAFE OFF EXISTING ELECTRICAL AND DISCONNECT AND REMOVE EXISTING ELECTRICAL, LIGHTING AND SIGNAL SYSTEMS IN BUILDING, BACK TO SOURCES OUTSIDE OF BUILDING, U.O.N.
2. (E) PAD MOUNTED EV CHARGING STATION EQUIPMENT, TO REMAIN. PROTECT IN PLACE.
3. (E) EV CHARGERS, TO REMAIN. PROTECT IN PLACE.
4. PORTION OF (E) CANOPY TO BE REMOVED. REMOVE (E) LUMINAIRES MOUNTED TO UNDERSIDE OF CANOPY TO BE REMOVED, ALONG WITH ASSOCIATED (E) CONDUIT AND CABLING, BACK TO LAST LUMINAIRE TO REMAIN.
5. (E) LOW VOLTAGE PULLBOX TO BE REMOVED.
6. (E) UNDERGROUND CONDUIT TO BE REMOVED. (E) LOW VOLTAGE CABLING TO BE REMOVED BACK TO NEAREST BOX TO REMAIN.
7. SECTION OF (E) UNDERGROUND CONDUIT TO BE REMOVED. REMOVE (E) LOW VOLTAGE CABLING BACK TO END OF NEAREST REMAINING CONDUIT. SEE E-1.1 FOR CONTINUATION WITH (N) CONDUIT AND CABLING.
8. (E) PULLBOX TO BE REPLACED. SEE E-1.1 FOR (N) PULLBOX INFORMATION.
9. (E) CONDUIT TO REMAIN. PROTECT IN PLACE.
10. (E) PULLBOX TO REMAIN. PROTECT IN PLACE.
11. (E) ROOF MOUNTED PULLCAN AND CONDUIT AT THIS LOCATION TO REMAIN. PROTECT IN PLACE.
12. SEE CIVIL DRAWINGS FOR INFORMATION ABOUT (E) SANITARY SEWER, STORM AND WATER UNDERGROUND PIPE.



SITE DEMOLITION PLAN - ELECTRICAL

SCALE: 1" = 30'-0"

1 / E-1.0

NORTH

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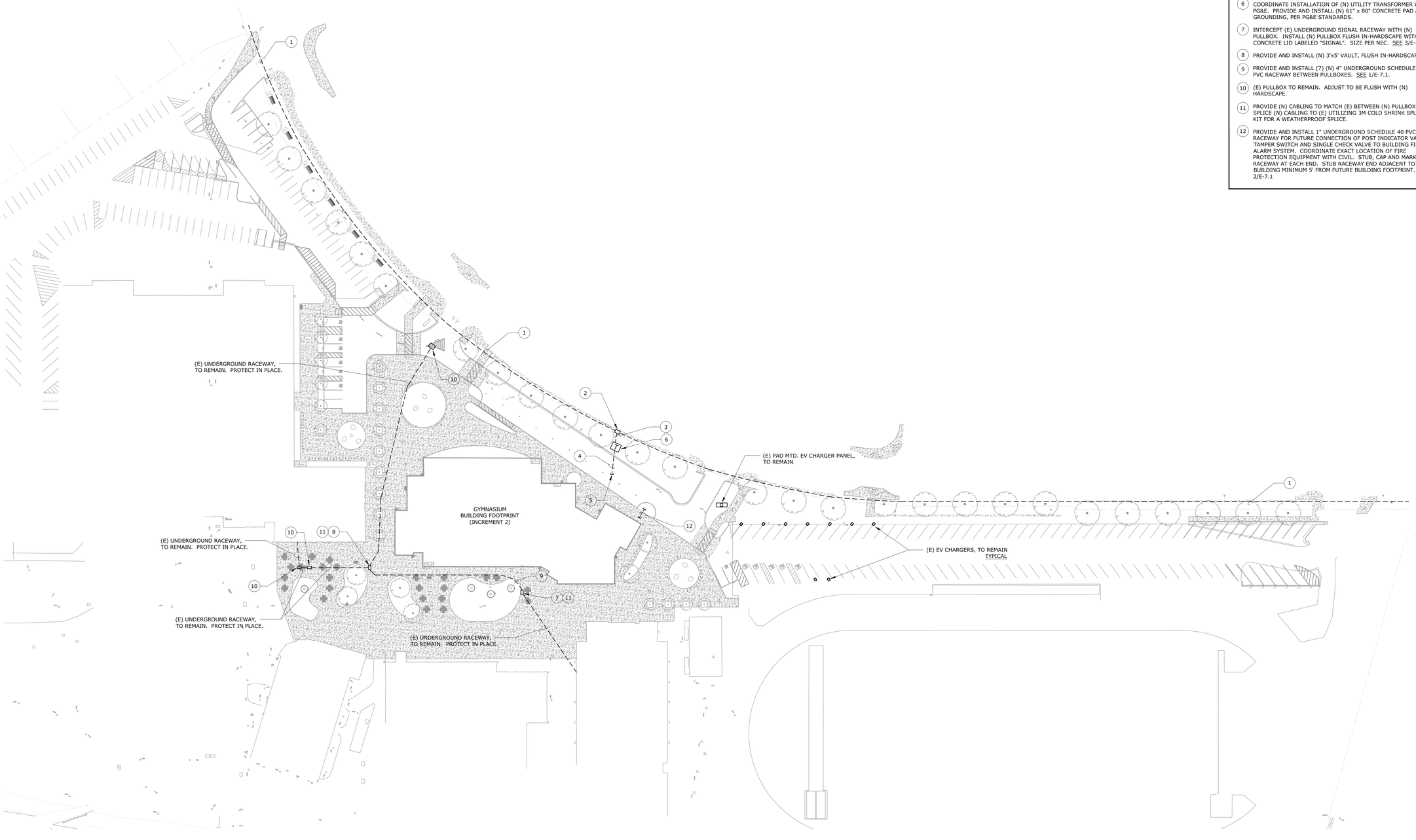
SITE DEMOLITION PLAN - ELECTRICAL

SHEET NUMBER

E-1.0

TERRA LINDA HS GYM - 220010\CAD\INCREMENT 1



SITE PLAN - ELECTRICAL

SCALE: 1" = 40'-0"

1 / E-1.1

NORTH

NUMBERED SHEET NOTES

1. APPROXIMATE ROUTE OF NEW UNDERGROUND PUBLIC UTILITY LINES, INSTALLED UNDER FRONTAGE PORTION OF WORK.
2. (N) PG&E UNDERGROUND PRIMARY 3-WAY JUNCTION VAULT FOR (N) SERVICE EXTENSION.
3. PROVIDE AND INSTALL (1) 4" SCHEDULE 40 PVC UNDERGROUND PRIMARY SERVICE CONDUIT BETWEEN PG&E VAULT AND PG&E TRANSFORMER PAD PRIMARY WINDOW. SEE 1/E-7.1.
4. PROVIDE AND INSTALL (1) 5" SCHEDULE 40 PVC UNDERGROUND SECONDARY SERVICE CONDUIT BETWEEN PG&E TRANSFORMER PAD SECONDARY WINDOW AND STUB-OUT LOCATION SHOWN. SEE NOTE 5 AND 1/E-7.1.
5. STUB-OUT, CAP AND MARK FOR EXTENSION TO NEW GYM BUILDING ELECTRIC SERVICE UNDER INCREMENT 2 WORK. SEE DETAIL 2/E-7.1.
6. COORDINATE INSTALLATION OF (N) UTILITY TRANSFORMER WITH PG&E. PROVIDE AND INSTALL (N) 61" x 80" CONCRETE PAD AND GROUNDING, PER PG&E STANDARDS.
7. INTERCEPT (E) UNDERGROUND SIGNAL RACEWAY WITH (N) PULLBOX. INSTALL (N) PULLBOX FLUSH IN-HARDSCAPE WITH CONCRETE LID LABELED "SIGNAL". SIZE PER NEC. SEE 3/E-7.1.
8. PROVIDE AND INSTALL (N) 3'x5' VAULT, FLUSH IN-HARDSCAPE.
9. PROVIDE AND INSTALL (7) (N) 4" UNDERGROUND SCHEDULE 40 PVC RACEWAY BETWEEN PULLBOXES. SEE 1/E-7.1.
10. (E) PULLBOX TO REMAIN. ADJUST TO BE FLUSH WITH (N) HARDSCAPE.
11. PROVIDE (N) CABLING TO MATCH (E) BETWEEN (N) PULLBOXES. SPLICE (N) CABLING TO (E) UTILIZING 3M COLD SHRINK SPLICE KIT FOR A WEATHERPROOF SPLICE.
12. PROVIDE AND INSTALL 1" UNDERGROUND SCHEDULE 40 PVC RACEWAY FOR FUTURE CONNECTION OF POST INDICATOR VALVE TAMPER SWITCH AND SINGLE CHECK VALVE TO BUILDING FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION OF FIRE PROTECTION EQUIPMENT WITH CIVIL. STUB, CAP AND MARK RACEWAY AT EACH END. STUB RACEWAY END ADJACENT TO THE BUILDING MINIMUM 5' FROM FUTURE BUILDING FOOTPRINT. SEE 2/E-7.1

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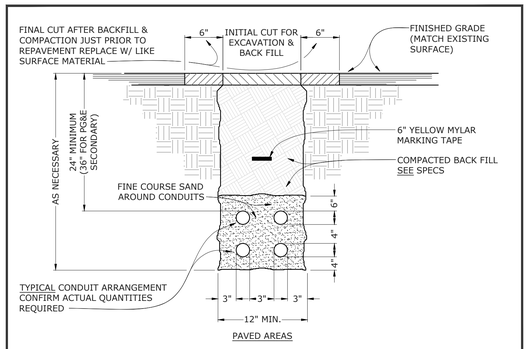
SITE PLAN - ELECTRICAL

SHEET NUMBER

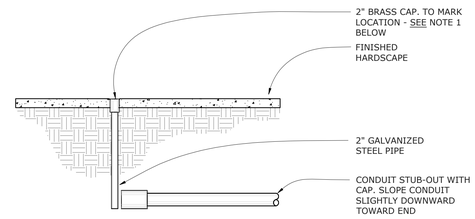
E-1.1



TYPICAL TRENCH SECTION

SCALE: NONE

1 / E7.1



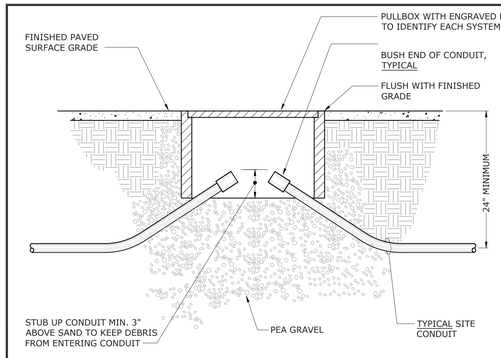
NOTES:

1. ENGRAVE BRASS CAP INDICATING FUNCTION & FINAL DESTINATION
2. RECORD ALL ACTUAL STUB-OUT LOCATIONS ON AS-BUILT DRAWINGS

CONDUIT STUB-OUT

SCALE: NONE

2 / E7.1



PULLBOX DETAIL - PAVED AREAS

SCALE: NONE

3 / E7.1

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Exp. 6/21
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Terra Linda High School

New Gym & Frontage Improvements

SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafel, CA 94903

San Rafael City Schools

REVISIONS

ARCH PROJECT NO:	1854.00
DRAWN BY:	LN/TV/JW
DRAWING SCALE:	AS NOTED
PTN:	#65466-39

100% CD

JAN. 20, 2021

SHEET TITLE

DETAILS

SHEET NUMBER

E-7.1