



FACILITY:

6715 GLORIA DR.

PROJECT:

SHEET NAME: **COVER SHEET** 

DATE: 12/20/22 SHEET:



IDENTIFICATION STAM DIV. OF THE STATE ARCHITI

APP: 02-120928 INC: **REVIEWED FOR** 

SACRAMENTO, CA 95831

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

CLIENT PROJ NO:

## **GENERAL NOTES**

1.	CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE
2.	OVERALL DESIGN INTENT OF THE PROJECT. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED
	BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3.	PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND
	SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4.	VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK.
	NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE
	CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF
-	PREPARATION.
5.	ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES,
6.	ORDINANCES, REGULATIONS AND LAWS. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND
	SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7.	WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8.	IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9.	DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED
10.	OTHERWISE. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO
11.	EQUAL OR BETTER CONDITION. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT

- IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED. CONTRACTOR SHALL EXCERCISE EXTREME 12 CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CHANGES TO THE APPROVED DRAWINGS 13.
- AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER. 14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.

# SYMBOL LEGEND

TN

	NORTH ARROW
PN	- TICK INDICATES PLAN NORTH
	- ARROW INDICATES TRUE NORTH
	ELEVATION CALLOUT (TYPICAL FOR EXTERIOR)
	- LOCATION ON SHEET
AX.XX	- SHEET WHERE ELEVATION IS DRAWN
A1	
	ELEVATION CALLOUT (TYPICAL FOR INTERIOR)
AX.XX A2	- LOCATION ON SHEET
	- SHEET WHERE ELEVATION IS DRAWN
A3	ELEVATION CALLOUT - ALT.
18/AX.XX	LOCATION & SHEET WHERE
	ELEVATION IS DRAWN
SIM	SECTION CALLOUT
	- INDICATES A SIMILAR CONDITION
	- LOCATION ON SHEET

DETAIL CALLOUT

LOCATION ON SHEET

GRID BUBBLE

DOOR CALLOUT

- MATERIAL FINISH TYPE

(SEE FINISH SCHEDULE)

WINDOW CALLOUT

(SEE WINDOW SCHEDULE)

WINDOW NUMBER

DOOR NUMBER

GRID NUMBER

- SHEET WHERE SECTION IS DRAWN

- INDICATES A SIMILAR CONDITION

- SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT

- EXISTING BUILDING GRID SYMBOL

INTERIOR FINISH CALLOUT

NEW BUILDING GRID SYMBOL

 $\begin{pmatrix} 1 \\ AX.XX \end{pmatrix}$ 

← FIRST FLOOR ← NAME OF ELEVATION (IF APPLICABLE) +0' - 0" ← ELEVATION ABOVE FINISHED FLOOR

(101A)

09-WF1

(FA•)

- ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR) THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST
- DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. **INSPECTOR TO BE CLASS 1.** A DSA ACCEPTED TESTING LABORATORY 20 DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE
- REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER. GRADING PLANS, DRAINAGE
- IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
- THE INTENT OF THESE DRAWINGS AND 23 SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24,

AS4A 55 11FB

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Χe

? •

CCR)

	MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT   SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
R	OJECT DATA

CONTRACTOR IS TO REVIEW AND COMPLY

WITH ALL REQUIREMENTS AND MITIGATION

- EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION. ALL MATERIALS AND WORKMANSHIP
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- DETAILS ON THE DRAWINGS. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY

NOTED OTHERWISE.

### WALL TYPE CALLOUT AS6A -- WALL TYPE MARK - SEE A10.11 - WALL STC RATING WALL FIRE RATING TYPE MATCHLINE REFERENCE - LOCATION ON SHEET - SHEET WHERE PLAN IS DRAWN KEYNOTE - KEYNOTE NUMBER (SEE LEGEND ON SHEET) **ROOM EXITING INFORMATION** AREA (SQ FT) - OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR) - OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1) - OCCUPANCY TYPE - NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)



MANUFACTURER REFERENCE AND MODEL NUMBER - LOCK - CABINET DEPTH

DISCIPLINE

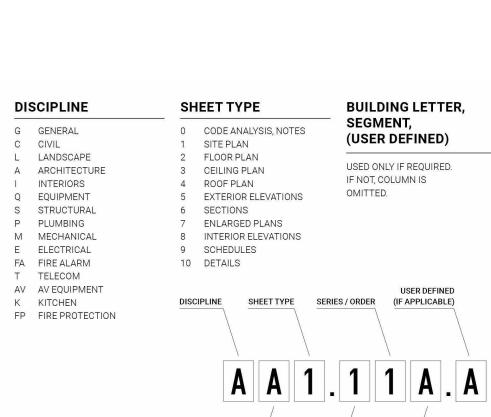
G GENERAL

T TELECOM

K KITCHEN

C CIVIL

- CABINET HEIGHT - CABINET WIDTH



BULIDING LETTER FLOOR LEVEL OR SEGMENT (IF APPLICABLE) SEQUENTIAL (IF APPLICABLE)

ORDER

## CODES

## PARTIAL LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3 TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24 CCR

(2015 INTERNATIONAL EXISTING CODE AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS ASME A17.1/B44-13 SAFETY CODE FOR

ELEVATORS AND ESCALATORS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2016 ED.
NFPA 14	AMENDED) STANDARD FOR STANDPIPE AND HOSE SYSTEMS	2013 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2016 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR	2016 ED.
NFPA 72	APPURTENANCES NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2016 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED.
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED.
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2012 ED.

PARTIAL LIST OF APPLICABLE STANDARDS

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

## **PROJECT DESCRIPTION**

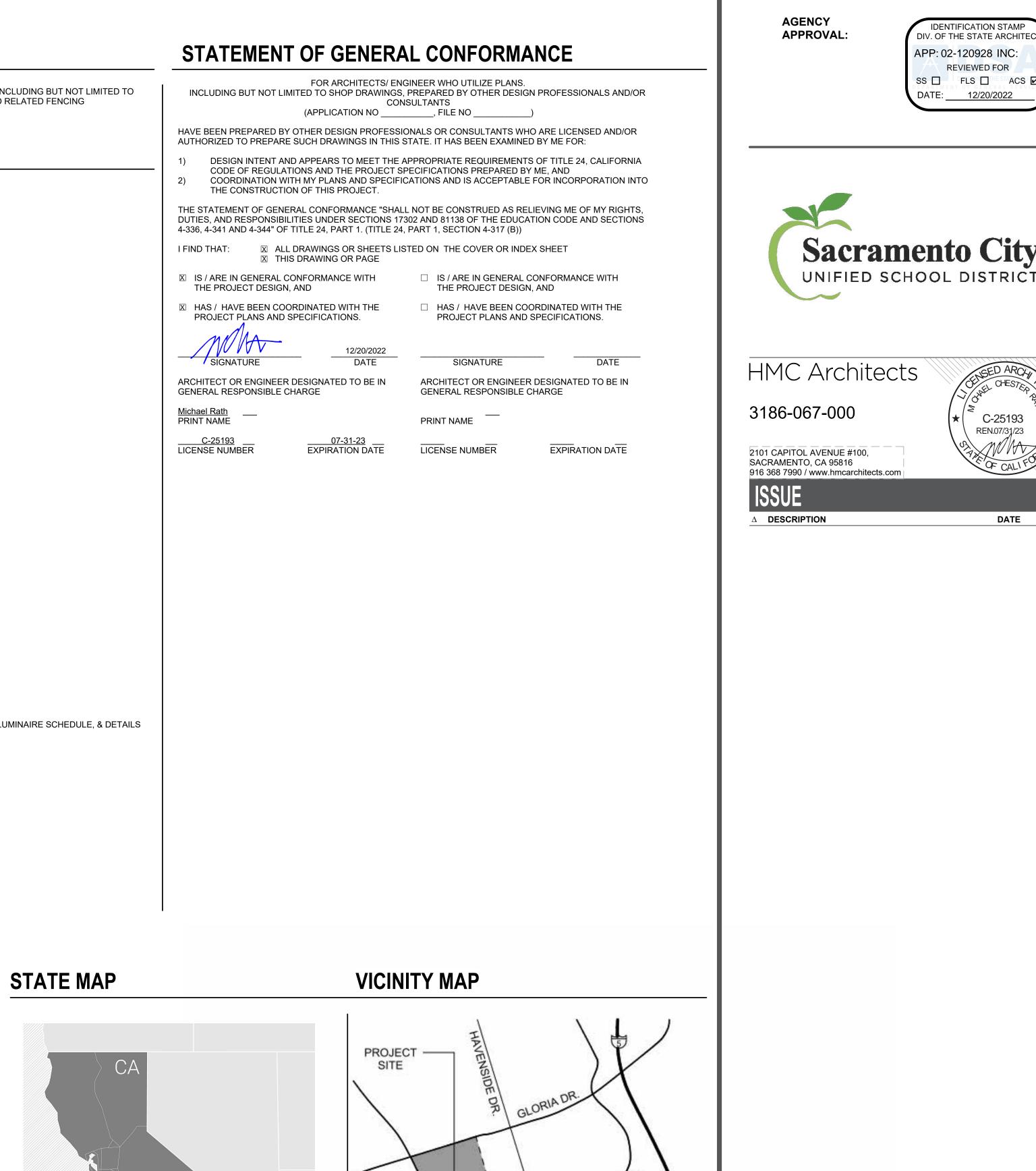
MODERNIZATION OF WEST AND EAST PARKING LOTS INCLUDING BUT NOT LIMITED TO PAVING, ACCESSIBLE PARKING STALLS, LIGHTING AND RELATED FENCING

## SHEET INDEX

GENERAL G0.1 G0.1.1 G1.1.1	COVER SHEET SHEET INDEX AND PROJECT DATA SHEET
CIVIL C0.1 C0.2 C0.3 C0.4 C1.1 C1.2 C1.3 C1.4 C1.5 C2.1 C2.2 C2.3 C3.1 C3.2 C4.1 C4.2 C5.1 C6.1 C6.2	GENERAL NOTES AND ABBREVIATIONS TOPOGRAPHIC SURVEY TOPOGRAPHIC SURVEY TOPOGRAPHIC SURVEY DEMOLITION PLAN DEMOLITION PLAN DEMOLITION PLAN ENGINEERED FILL PLAN ENGINEERED FILL PLAN GRADING PLAN GRADING PLAN GRADING PLAN DRAINAGE PLANS DRAINAGE PLANS PAVING PLAN EROSION CONTROL PLAN DETAILS
L3.2	DETAILS PE TREE PLANTING PLAN TREE PLANTING PLAN SHRUB/TURF PLANTING PLAN SHRUB/TURF PLANTING PLAN LANDSCAPE IRRIGATION PLAN LANDSCAPE PLANTING DETAILS LANDSCAPE IRRIGATION DETAILS
A1.2.2 A1.3.1 A1.3.2 A1.4.1	CTURAL OVERALL SITE PLAN EAST PARKING LOT - IMPROVEMENT PLAN WEST PARKING LOT IMPROVEMENT PLAN ENLARGED PLAN ENLARGED PLANS SITE DETAILS - FENCES AND GATES SITE DETAILS
E-004 E-005 E-101 E-102 E-103 E-201	CAL ABBREVIATIONS, SYMBOLS, SHEET INDEX, LU ELECTRICAL SPECIFICATIONS ELECTRICAL SPECIFICATIONS TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE OVERALL SITE PLAN - ELECTRICAL PARTIAL SITE PLAN - ELECTRICAL PARTIAL SITE PLAN - PHOTOMETRIC ONE-LINE DIAGRAM & PANEL SCHEDULES IEET COUNT: 46

## ABBREVIATIONS

E) AB	EXISTING ANCHOR BOLT	FRP FRT	FIBERGLASS REINFORCED PLASTIC FIRE RETARDANT TREATED	PTC PTD	POST TENSIONED CONCRETE PAPER TOWEL DISPENSER
	ASPHALTIC CONCRETE PAVING	FS	FINISH SURFACE	PTN	PARTITION
		FTG	FOOTING	PTS	PNEUMATIC TUBE STATION /
ACC	ACCESS/ACCESSIBLE	GB	GRAB BAR		SYSTEM
ACP	ACOUSTICAL CEILING PANEL	GFRC	GLASS FIBER REINFORCED	PVC	POLYVINYL CHLORIDE
		GFRC			
ACT	ACOUSTICAL CEILING TILE		CONCRETE	PVMT	PAVEMENT
ADJ	ADJACENT/ADJUSTABLE	GL	GLASS TYPE	QT	QUARRY TILE
<b>\FF</b>	ABOVE FINISH FLOOR	GLB	GLUE LAMINATED BEAM	R	RADIUS, RISER
AGG	AGGREGATE	GYP BD	GYPSUM BOARD	RB	RESILIENT BASE
AHU	AIR HANDLING UNIT	GYP PLAS	GYPSUM PLASTIC	RD	ROOF DRAIN
ARCH	ARCHITECTURAL	HB	HOSE BIBB	RECEPT	ECEPTACLE
TT	ATTENUATION	HD	HEAVY DUTY	REF	REFERENCE
UTO	AUTOMATIC	HDR	HEADER	REFL	REFLECT(ED), (IVE)
D	BOARD	HDWR	HARDWARE	REFL	REFLECT(ED), (IVE)
		HGT		REFR	
BLCG	BLOCKING		HEIGHT		REFRIGERATOR
UR	BUILT UP ROOFING	HM	HOLLOW METAL	REINF	REINFORCE/REINFORCED/
ABT	CABINET	HP	HIGH POINT		REINFORCEMENT
F	CUBIC FEET	HSS	HOLLOW STEEL SECTION	REM	REMOVE
FCI	CONTRACTOR FURNISHED,	ID	INSIDE DIAMTER	RH	ROUND HEAD
	CONTRACTOR INSTALLED	INT	INTERIOR	RHS	ROUND HEAD SCREW
		INV	INVERT	RO	ROUGH OPENING
FOI	CONTRACTOR FURNISHED,	LANDS	LANDSCAPE	ROW	RIGHT OF WAY
			LAVATORY	SCH	
	OWNER INSTALLED	LAV			SCHEDULE (FOR PIPE)
G	CORNER GUARD	LLH	LONG LEG HORIZONTAL	SCHED	SCHEDULE / SCHEDULING
J	CONTROL JOINT	LLV	LONG LEG VERTICAL	SD	STORM DRAIN / SOAP DISPEN
L	CENTER LINE	LP	LOW POINT	SECT	SECTION
LF	CHAIN LINK FENCE	LT WT	LIGHT WEIGHT	SG	SAFETY GLASS
LR	CLEAR	LVR	LOUVER	SHT	SHEET
MU	CONCRETE MASONRY UNIT	MACH	MACHINE	SHTG	SHEATHING
0	CLEANOUT	MB	MACHINE BOLT	SMS	SHEET METAL SCREW
,0 COL		MDF		SND	
	COLUMN		MEDIUM DENSITY FIBERBOARD		SANITARY NAPKIN DISPOSAL
OMP	COMPRESSION / COMPOSITE	MDO	MEDIUM DENSITY OVERLAY	SOV	SHUT OFF VALVE
CF	CUBIC FEET	MECH	MECHANICAL	SPEC	SPECIFICATIONS
COORD	COORDINATE	MED	MEDIUM	SS	STAINLESS STEEL
ORR	CORRUGATED	MEMB	MEMBRANE	STC	SOUND TRAMISSION CLASS
Т	CERAMIC TILE	MFR	MANUFACTURER	STL	STEEL
TSK	COUNTER SKUNK	MH	MANHOLE	STSMS	SELF TAPPING SHEET METAL
SW STOR	CURTAINWALL	MO	MASONRY OPENING	SCREW	GEEL TALLING GHEET METAL
					CUOPENDER
DEPR	DEPRESSED / DEPRESSION	MTD	MOUNTED	SUSP	SUSPENDED
DF	DRINKING FOUNTAIN	MTL	METAL	SV	SHEET VINYL
DIM	DIMENSION	NIC	NOT IN CONTRACT	SYM	SYMMETRICAL
DISP	DISPENSER	NR	NON RATED	T	TREAD
)S	DOWNSPOUT	NRC	NOISE REDUCTION COEFFICIENT	T&B	TOP AND BOTTOM
DTL	DETAIL	NTS	NOT TO SCALE	то	TOP OF
W	DISHWASHER	O/	OVER	тос	TOP OF CURB / CONCRETE
Ź/W	EACH WAY	O/A	OVERALL	TOP	TOP OF PARAPET
EIFS	EXTERIOR INSULATION FINISH	OC OC	ON CENTER	TOS	TOP OF STEEL
	EXTERIOR INSULATION FINISH	OD			
YSTEM		-	OUTSIDE DIAMTER	TOW	TOP OF WALL
J	EXPANSION JOINT	OFCI	OWNER FURNISHED, CONTRACTOR	TPD	TOILET PAPER DISPENSER
LEC	ELECTRICAL		INSTALLED	TS	TACKABLE SURFACE
LEV	ELEVATION / ELEVATOR	OFOI	OWNER FURNISHED, OWNER	U/C	UNDER CABINET (OR COUNTE
NCL	ENCLOSE / ENCLOSURE		INSTALLED	UNO	UNLESS NOTED OTHERWISE
		OFVI	OWNER FURNISHED, VENDOR	UR	URINAL
OS	EDGE OF SLAB		INSTALLED	VAC	VACUUM
P	ELECTRICAL PANEL	он	OPPOSITE HAND	VAC	VAPOR BARRIER
.r :Q	EQUAL	OPER	OPERABLE	VCT	VINYL COMPOSITION TILE
SC	EXCUTCHEON	OPNG	OPENING	VIF	VERIFY IN FIELD
WC	ELECTRIC WATER COOLER	ORD	OVERFLOW ROOF DRAIN	VTR	VENT THROUGH ROOF
XP	EXPOSED	P/L	PROPERTY LINE	VWC	VINYL WALL COVERING
A	FIRE ALARM	PA	PUBLIC ADDRESS	W/	WITH
D	FLOOR DRAIN	PAF	POWDER ACTUATED FASTENER	W/O	WITHOUT
DC	FIRE DEPARTMENT CONNECTION		PAVING	WB	WOOD BASE
Ē	FIRE EXTINGUISHER	PCC	PORTLAND CEMENT CONCRETE	WC	WATER CLOSET
EC	FIRE EXTINGUISHER W/ CABINET		PAVING	WD	WOOD
F	FINISH FLOOR	PED	PEDESTRIAN	WDW	WINDOW
G	FINISH GRADE	PERF	PERFORATED	WGT	WEIGHT
Н	FIRE HYDRANT	PERIM	PERIMETER	WH	WATER HEATER
HC	FIRE HOSE CABINET	PERP	PERPENDICULAR	WP	WATERPROOFING/WALL
SH	FLAT HEAD SCREW	PH	PANIC HARDWARE		PROTECTION
IN	FINISH	PIV	POST INDICATOR VALVE	WR	WATER RESISTANT
LR	FLOOR	PL	PLATE	WRGB	WATER RESISTANT GYPSUM
OC	FACE OF CONCRETE	PLAM	PLASTIC LAMINATE		BOARD
OF	FACE OF FINISH	PLAS	PLASTER	WS	WOOD SCREW
OM	FACE OF MASONRY	PLUMB	PLUMBING	WSCT	WAINSCOT
OS	FACE OF STUD	PNL	PANEL	WWF	WELDED WIRE FABRIC
P	FIREPROOFING	PNT	PAINT / PAINTED		
R	FIRE RATED	POC	POINT OF CONNECTION	NOTE:	
RG	FIRE RATED GLASS	POLY ISO	POLYISOCYANURATE		BREVIATIONS USED ON THESE
	-	PREFIN	PREFINISHED		ARE CONSIDERED STANDARDS IN
		PREP	PREP / PREPARATION		ING INDUSTRY. CONTACT ARCHITE



FACILITY:

6715 GLORIA DR. SACRAMENTO, CA 95831

PROJECT: JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

SHEET NAME:

DATE: 12/20/22

SHEET:



CLIENT PROJ NO:

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

**REVIEWED FOR** SS 🔲 FLS 🗌 ACS 🗹

12/20/2022

C-25193

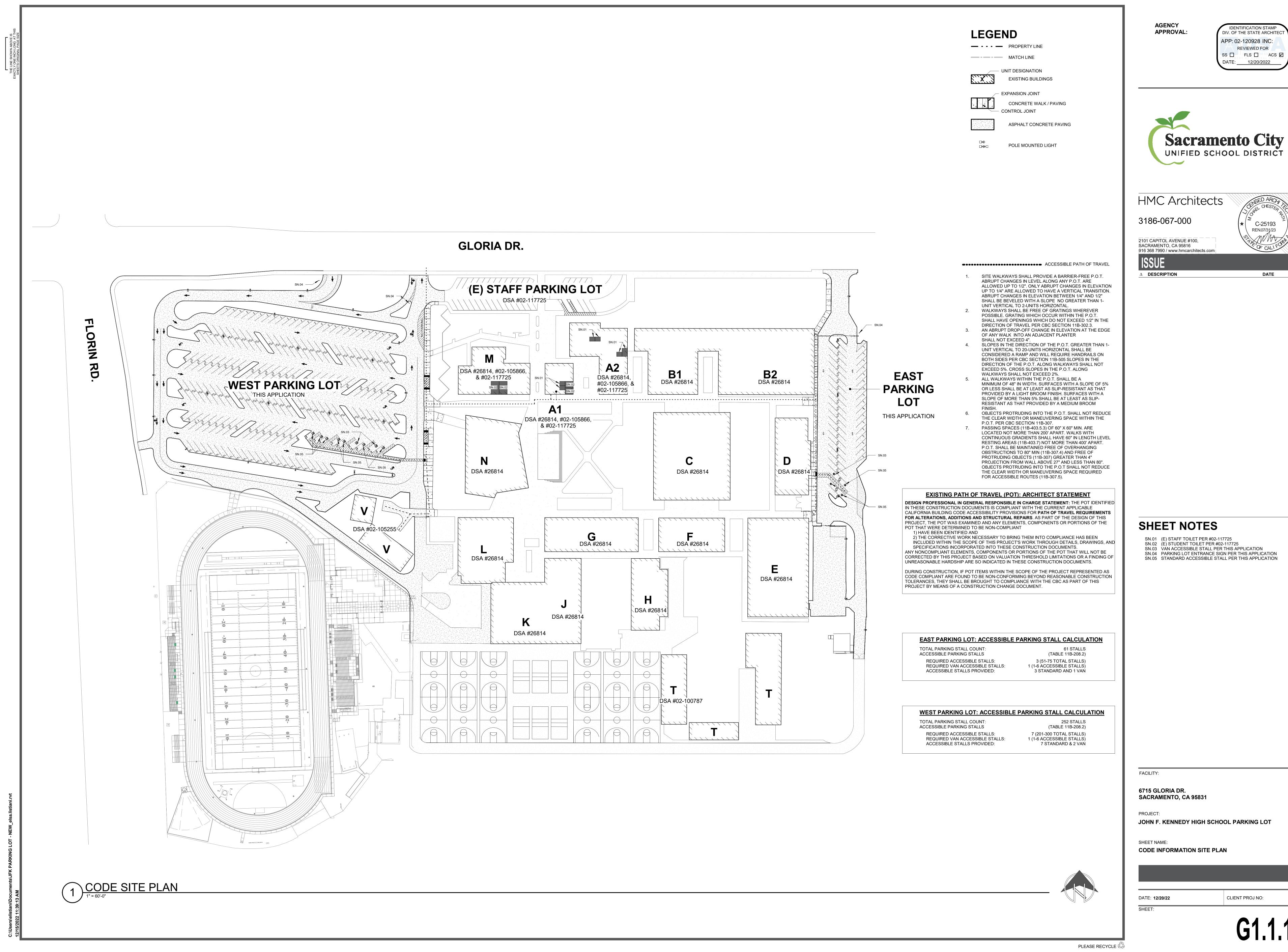
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SHEET INDEX AND PROJECT DATA SHEET





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JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

CODE INFORMATION SITE PLAN

CIVII	_ SHEET IND
C0.1 -	CIVIL GENERAL
C0.2 -	TOPOGRAPHIC S
C0.3 -	TOPOGRAPHIC S
C0.4 -	TOPOGRAPHIC S
C1.1 -	DEMOLITION PLA
C1.2 -	DEMOLITION PLA
C1.3 -	DEMOLITION PLA
C1.4 -	ENGINEERED FIL
C1.5 -	ENGINEERED FIL
C2.1 -	GRADING PLAN
C2.2 -	GRADING PLAN
C2.3 -	GRADING PLAN
C3.1 -	DRAINAGE PLAN
C3.2 -	DRAINAGE PLAN
C4.1 -	PAVING PLAN
C4.2 -	PAVING PLAN
C5.1 -	EROSION CONTR
C6.1 -	DETAILS AND SE
C6.2 -	DETAILS AND SE

### DEX

- NOTES AND ABBREVIATIONS
- SURVEY
- SURVEY
- SURVEY
- LAN
- AN
- \_AN
- FILL PLAN
- FILL PLAN

- TROL PLAN
- SECTIONS
- ECTIONS

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS Know what's below. OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF

PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.



- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL 2. LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- 3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- 4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- 9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK .. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- 11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- 12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- 14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS. OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- 15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN. 17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER.
- ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- 18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- 19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.
- 21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- 22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS. 23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS

### **GENERAL PAVING SURFACE NOTES:**

WILL NOT BE ALLOWED.

- 1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- 2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS: - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL. - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
- NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

## CIVIL ABBREVIATIONS AND LEGEND

		ABBREVIATIONS	<u>LE</u> (	<u>GEND</u>
		: NOT ALL ABBREVIATIONS	NOTE: NOT ALL BE USED ON T	
	MAY <b>AB</b>	BE USED ON THESE PLANS. AGGREGATE BASE		& DRAINAGE SYMBOLS:
V.	AC AD APN	ASPHALTIC CONCRETE AREA DRAIN ASSESSOR'S PARCEL NUMBER	8" SD	STORM DRAIN LINE (SIZE AND FLOW SHOWN)
g.	ARV ASB BO	AIR RELEASE VALVE AGGREGATE SUB-BASE BLOW-OFF VALVE		STORM DRAIN MANHOLE (SDMH)
	BV BW	BUTTERFLY VALVE BACK OF WALK		CATCH BASIN (CB)
	C/L CB	CENTERLINE CATCH BASIN	<b>F</b>	DROP INLET (DI)
	CL CMP	CLASS CORRUGATED METAL PIPE		AREA DRAIN (AD)
	CATV CO	CABLE TELEVISION CLEANOUT		PLANTER DRAIN (PD) OR
	COMM CONC.	COMMUNICATION CONCRETE	-	FLOOR DRAIN (FD)
	CONST. CR	CONSTRUCT CURB RETURN	99.99 co	STORM DRAIN CLEANOUT
	CS DC	CONCRETE SURFACE DOUBLE CHECK VALVE	<u>33.35</u>	ELEVATION
	DDC DG	DOUBLE DETECTOR CHECK VALVE DECOMPOSED GRANITE	FF=100.00	FINISHED FLOOR ELEVATION
	DI DIA	DROP INLET DIAMETER	PAD=99.33	BUILDING PAD ELEVATION
	DIP DWG	DUCTILE IRON PIPE DRAWING		CONCRETE SIDEWALK
	DS E EP	DOWNSPOUT ELECTRIC EDGE OF PAVEMENT	$\longrightarrow$	GRADED DIRECTION FOR DRAINAGE FLOW
	ESMT EX	EASEMENT EXISTING	$\longrightarrow$	SWALE
	FS FDC	FIRE SERVICE LINE FIRE DEPARTMENT CONNECTION	<b>Y Y Y</b>	SLOPE
	FL FM	FLOWLINE SANITARY SEWER FORCE MAIN	£₩	TREE TO BE REMOVED
	FF FH	FINISHED FLOOR ELEVATION FIRE HYDRANT	۷۵	RETAINING WALL
	G GR	GAS GRATE ELEVATION	PROPOSED SANITARY	SEWER SYMBOLS:
	GRD GV	GRADE ELEVATION GATE VALVE	6" SS	SANITARY SEWER LINE
	HB HBD	HOSE BIBB HEADER BOARD	•	(SIZE AND FLOW SHOWN)
	HDPE HP	HIGH DENSITY POLYETHYLENE PIPE HIGH POINT		SANITARY SEWER MANHOLE (SSMH)
	INV JP LF	PIPE INVERT ELEVATION JOINT UTILITY POLE LINEAL FEET	<b></b> CO	SEWER CLEANOUT FLUSHER BRANCH
	LIP LT	LIP OF GUTTER LEFT	PROPOSED WATER SY	MBOLS:
	MS NTS	MOWSTRIP NOT TO SCALE	——	WATER LINE & SIZE
	OH PCC	OVERHEAD PORTLAND CEMENT CONCRETE	8" FS	FIRE LINE & SIZE
	PD PIV	PLANTER DRAIN POST INDICATOR VALVE	[8" DW	DOMESTIC WATER LINE & SIZE
	P/L PP	PROPERTY LINE POWER POLE	8" RW]	RECLAIMED WATER LINE & SIZE
	PUE PVC	PUBLIC UTILITY EASEMENT POLYVINYL CHLORIDE		IRRIGATION SERVICE LINE & SIZE
	RCP R	REINFORCED CONCRETE PIPE RADIUS		NON POTABLE WATER LINE & SIZE
	RIM RP	MANHOLE RIM ELEVATION (SOLID COVER) REDUCED PRESSURE BACKFLOW PREVENTER	8" SP	FIRE SPRINKLER SERVICE LINE & SIZE
	RW SCH	RIGHT OF WAY SCHEDULE		GATE VALVE
	SD SDMH	STORM DRAIN STORM DRAIN MANHOLE		WATER METER
	SG SS	SUBGRADE ELEVATION SANITARY SEWER	FH	FIRE HYDRANT ASSEMBLY
	SSMH STD	SANITARY SEWER MANHOLE STANDARD	Y FDC	FIRE DEPARTMENT CONNECTION
	S/W T	SIDEWALK TELEPHONE		DETECTOR CHECK VALVE
	TC TD	TOP OF CURB TRENCH DRAIN		DOUBLE DETECTOR CHECK VALVE
	TDCB TP	TRENCH DRAIN CATCH BASIN TELEPHONE POLE	RP	REDUCED PRESSURE
	TRW TSW	TOP OF RETAINING WALL TOP OF SEAT WALL	K I	BACKFLOW PREVENTER
	TW U	TOP OF WALK ELEVATION UTILITY	1"	BUTTERFLY VALVE
	UG UON	UNDERGROUND UNLESS OTHERWISE NOTED	<b>←</b> ' 1"	AIR RELEASE VALVE + SIZE
	VCP W	VITRIFIED CLAY PIPE WATER	PIV	BLOW-OFF VALVE + SIZE
	W/ W/O			POST INDICATOR VALVE

### DEMOLITION GENERAL NOTES

W/0

WV

WITHOUT

WATER VALVE

1.	IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY
	THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED
	DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE
	ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

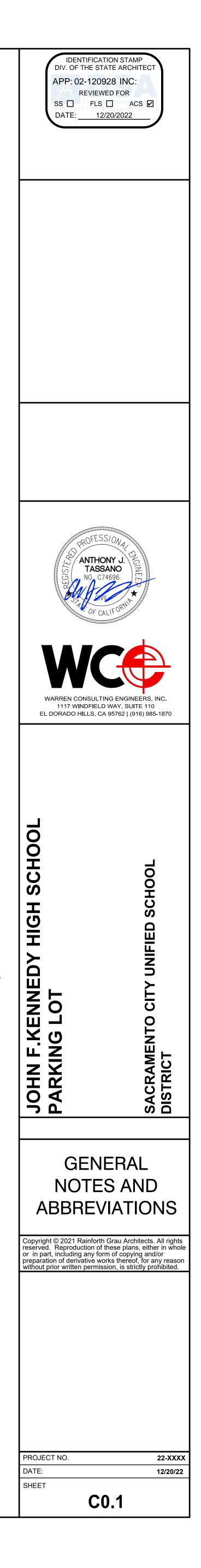
- 2. NO BURNING OR BLASTING SHALL BE PERMITTED.
- 3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- 4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- 5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- 7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
- 8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 10. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

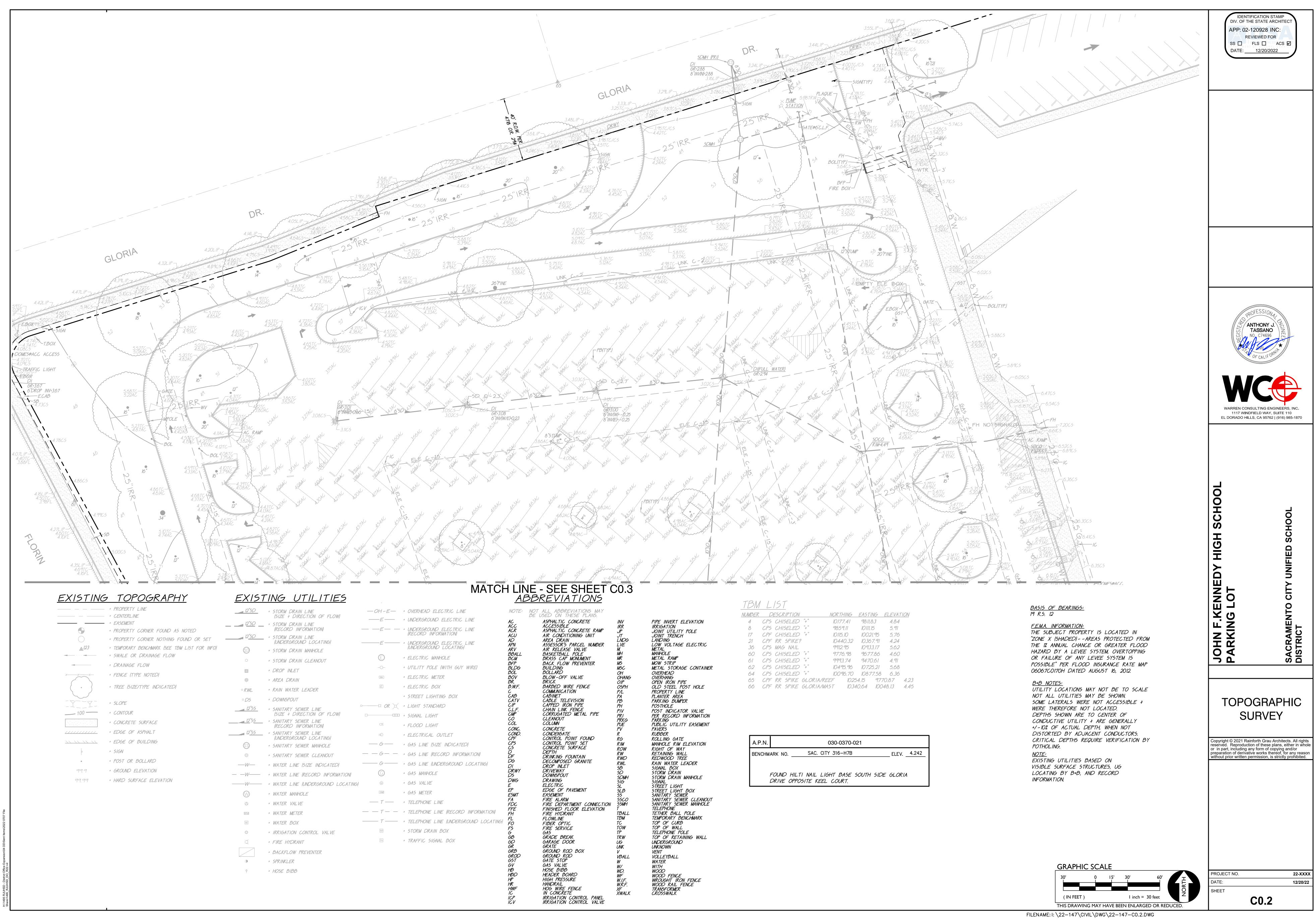
CONCRETE SAWCUT NOTE SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

UTILITY VERIFICATION NOTE PRIOR TO THE START OF CONSTRUCTION, LOCATE AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

**IRRIGATION DEMOLITION NOTE** 

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.





EXISTING	$\frac{1000}{1000}$
	= PROPERTY LINE
	= CENTERLINE
	= EASEMENT
	= PROPERTY CORN
$\bigcirc$	= PROPERTY CORN
<u>A</u> 123	= TEMPORARY BENC
	= SWALE OR DRA
	= DRAINAGE FLOW
xx	= FENCE (TYPE NO
	= TREE (SIZE/TYPE
	= SLOPE
100	= CONTOUR
	= CONCRETE SURF
	= EDGE OF ASPH/
	- EDGE DE BUILL

12"5D	= STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
12"5D	= STORM DRAIN LINE (RECORD INFORMATION)
12 <u>"5D</u>	= STORM DRAIN LINE [UNDERGROUND LOCATING]
SD	= STORM DRAIN MANHOLE
0	= STORM DRAIN CLEANOUT
	= DROP INLET
ê	= AREA DRAIN
°RWL	= RAIN WATER LEADER
° D5	= DOWNSPOUT
12"55	= SANITARY SEWER LINE (SIZE + DIRECTION OF FLOW)
12"55	= SANITARY SEWER LINE [RECORD INFORMATION]
12"55	= SANITARY SEWER LINE [UNDERGROUND LOCATING]
(53)	= SANITARY SEWER MANHOLE
	= SANITARY SEWER CLEANOUT
— <i>W</i> —	= WATER LINE (SIZE INDICATED)
W	= WATER LINE (RECORD INFORMATION)
	= WATER LINE (UNDERGROUND LOCATING)
	= WATER MANHOLE
	= WATER VALVE
WM	= WATER METER
W	= WATER BOX
0	= IRRIGATION CONTROL VALVE
Q	= FIRE HYDRANT
	= BACKFLOW PREVENTER
•	= SPRINKLER

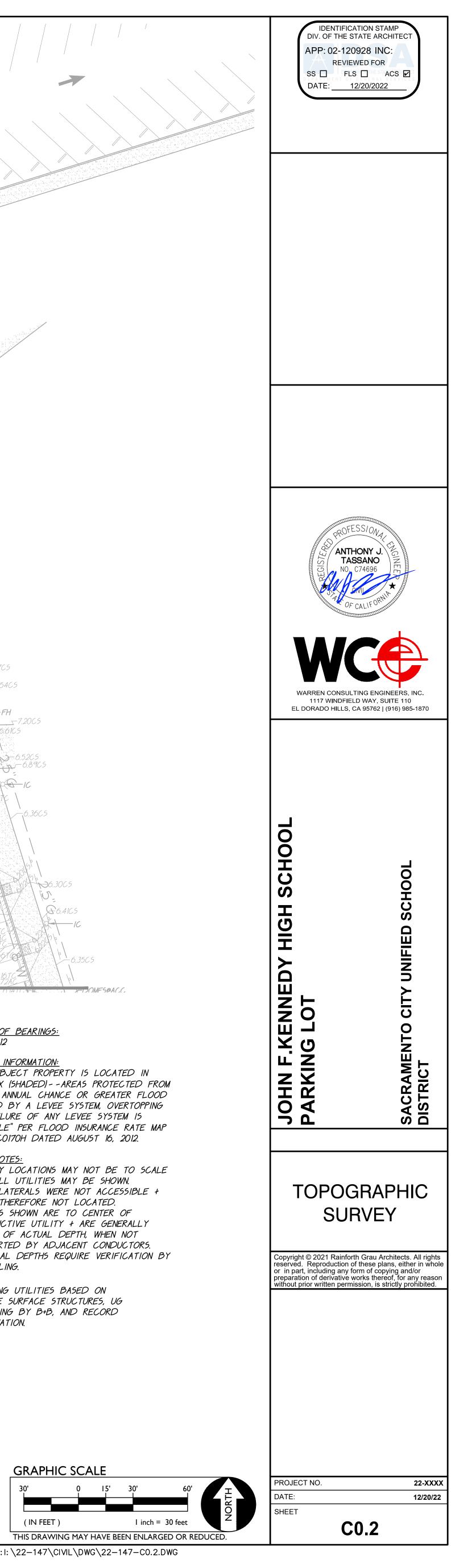
-	
H-E-	= OVERHEAD ELECTRIC LINE
E	= UNDERGROUND ELECTRIC LINE
E— —	= UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
E	= UNDERGROUND ELECTRIC LINE [UNDERGROUND LOCATING]
Ð	= ELECTRIC MANHOLE
-0	= UTILITY POLE (WITH GUY WIRE)
EM	= ELECTRIC METER
E	= ELECTRIC BOX
	= STREET LIGHTING BOX
a or 💢	= LIGHT STANDARD
	= SIGNAL LIGHT
Œ	= FLOOD LIGHT
Ð	= ELECTRICAL OUTLET
G ——	= GAS LINE (SIZE INDICATED)
G— —	= GAS LINE (RECORD INFORMATION)
G	= GAS LINE (UNDERGROUND LOCATING)
<b>G</b>	= GAS MANHOLE
G	= GAS VALVE
GM	= GAS METER
Τ	= TELEPHONE LINE
$\tau$	= TELEPHONE LINE (RECORD INFORMATION)
Τ	= TELEPHONE LINE (UNDERGROUND LOCATI
5D	= STORM DRAIN BOX
TS	= TRAFFIC SIGNAL BOX

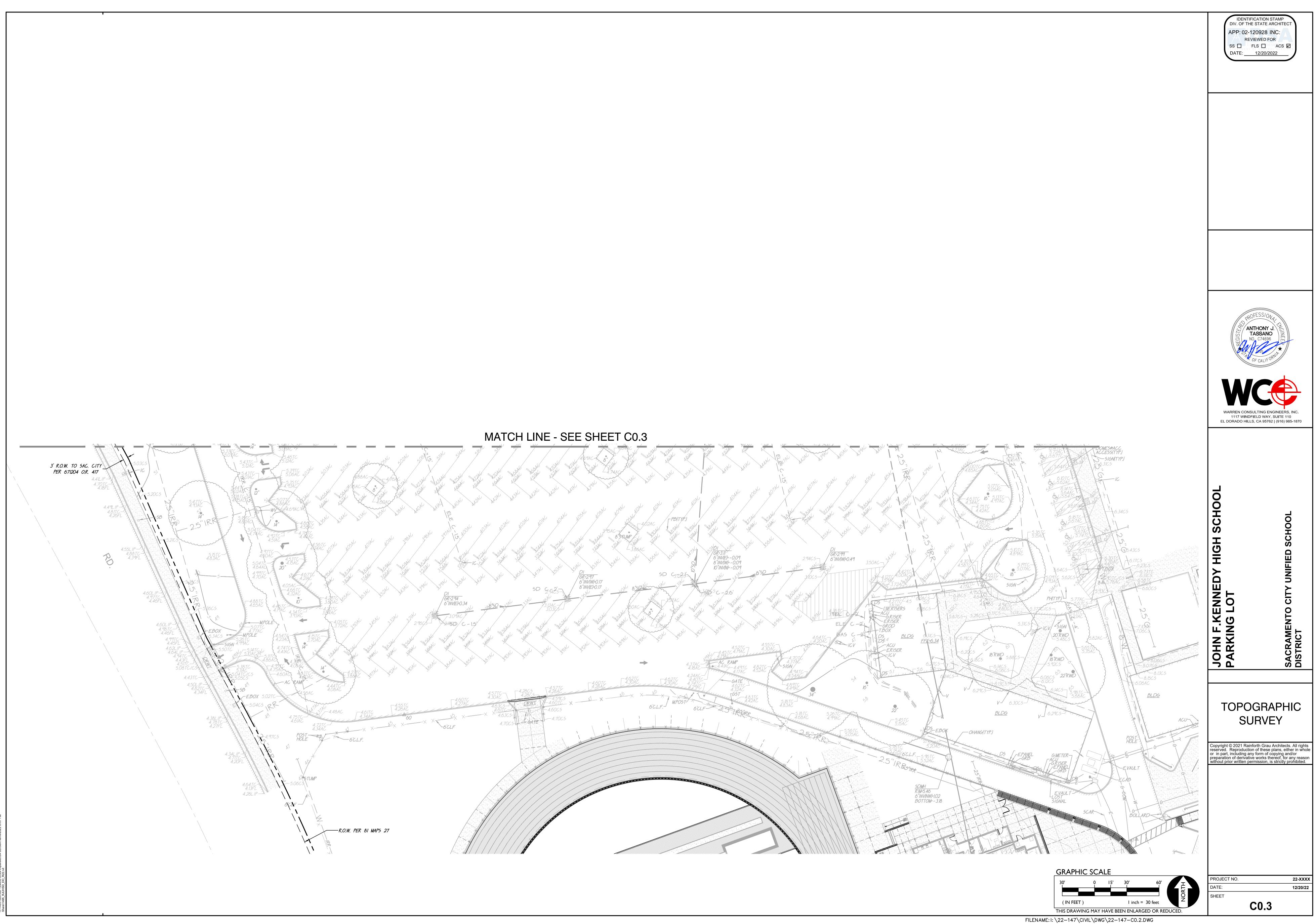
OT ALL ABBREVIATIONS MAY
E USED ON THESE PLANS. ASPHALTIC CONCRETE
ACCESSIBLE ASPHALTIC CONCRETE RAMP
AIR CONDITIONING UNIT AREA DRAIN
ASSESSOR'S PARCEL NUMBER AIR RELEASE VALVE
BASKETBALL POLE BRASS CAP MONUMENT
BACK FLOW PREVENTER BUILDING
BOLLARD BLOW-OFF VALVE
BRICK BARBED WIRE FENCE
COMMUNICATION
CABINET CABLE TELEVISION CAPPED IRON PIPE
CHAIN LINK FENCE CORRUGATED METAL PIPE
CLEANOUT COLUMN
CONCRETE CONDENSATE
CONDENSATE CONTROL POINT FOUND CONTROL POINT SET
CONCRETE SURFACE DEPTH
DRINKING FOUNTAIN DECOMPOSED GRANITE
DROP INLET DRIVEWAY
DOWNSPOUT DRAWING
ELECTRIC EDGE OF PAVEMENT
EDOL OF TAVLIMLNT EASEMENT FIRE ALARM
FIRE ALARM FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION
FIRE HYDRANT
FLOWLINE FIBER OPTIC
FIRE SERVICE GAS GRADE BREAK
GRADE DREAM GARAGE DOOR GRATE
GROUND ROD BOX GROUND ROD
GATE STOP GAS VALVE
HOSE BIBB HEADER BOARD
HIGH PRESSURE HANDRAIL
HOG WIRE FENCE IN CONCRETE
IRRIGATION CONTROL PANEL IRRIGATION CONTROL VALVE

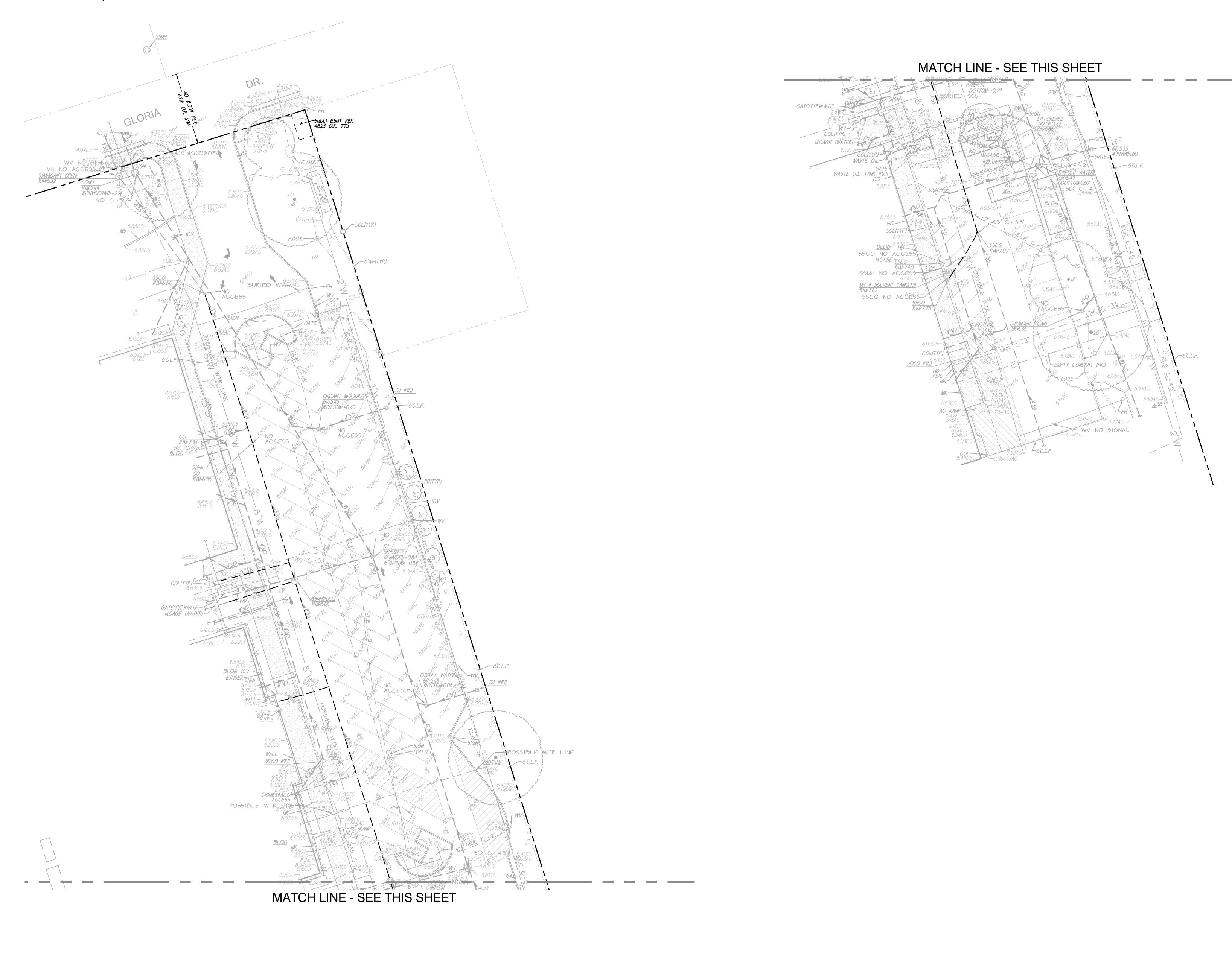
PIPE INVERT ELEVATION
IRRIGATION
JOINT UTILITY POLE JOINT TRENCH
LANDING LOW VOLTAGE ELECTRIC
METAL
MANHOLE
METAL RAMP
MOW STRIP
METAL STORAGE CONTAINER
OVERHEAD
OVERHANG
OPEN IRON PIPE
OPEN IRON PIPE OLD STEEL POST HOLE
PROPERTY LINE
PLANTER AREA
PARKING BUMPER
POSTHOLE
POST INDICATOR VALVE
PER RECORD INFORMATION
PARKING
PUBLIC UTILITY EASEMENT
PAVERS
RUBBER
ROLLING GATE
MANHOLE RIM ELEVATION
RIGHT OF WAY RETAINING WALL
RETAINING WALL
REDWOOD TREE
RAIN WATER LEADER
SIGNAL BOX STORM DRAIN
STORM DRAIN
STORM DRAIN MANHOLE
SIGNAL STREET LIGHT
STREET LIGHT BOX
SANITARY SEWER
SANITARY SEWER SANITARY SEWER CLEANOUT SANITARY SEWER MANHOLE
SANITARY SEWER MANHOLE
TELEPHONE
TETHER BALL POLE
TEMPORARY BENCHMARK
TOP OF CURB
TOP OF WALL
TELEPHONE POLE
TOP OF RETAINING WALL
UNDERGROUND
UNKNOWN
VENT
VOLLEYBALL
WATER
WITH
WOOD WOOD EENCE
WOOD FENCE WROUGHT IRON FENCE
WOOD RAIL FENCE
TRANSFORMER CROSSWALK

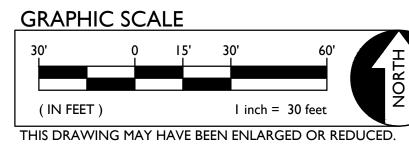
TBM	LIST			
NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
4	CPS CHISELED "+"	10177.41	9811.83	4.84
8	CPS CHISELED "+"	9859.11	10111.15	5.91
17	CPF CHISELED "+"	10115.10	10021.95	5.76
21	CPF RR SPIKE?	10440.32	10367.91	4.24
36	CPS MAG NAIL	9912.95	10933.17	5.62
60	CPS CHISELED "+"	9776.98	9677.86	4.60
61	CPS CHISELED "+"	9993.74	9470.61	4.91
62	CPS CHISELED "+"	10495.96	10725.21	5.68
64	CPS CHISELED "+"	10096.70	10877.58	6.36
65	CPF RR SPIKE GLORIA/RE	EF 1025	54.15 97	70.87 4.23
66	CPF RR SPIKE GLORIA/MA.	ST 1034	10.64 100	48.13 4.45

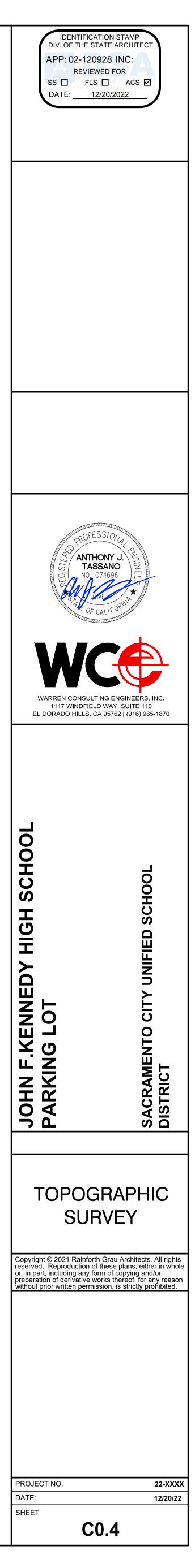
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BENCHM	ARK NO	SAC. CITY 316-H7B	ELEV	4.242
		TI NAIL LIGHT BASE SOUTH S ISITE KEEL COURT.	SIDE GLORIA	l

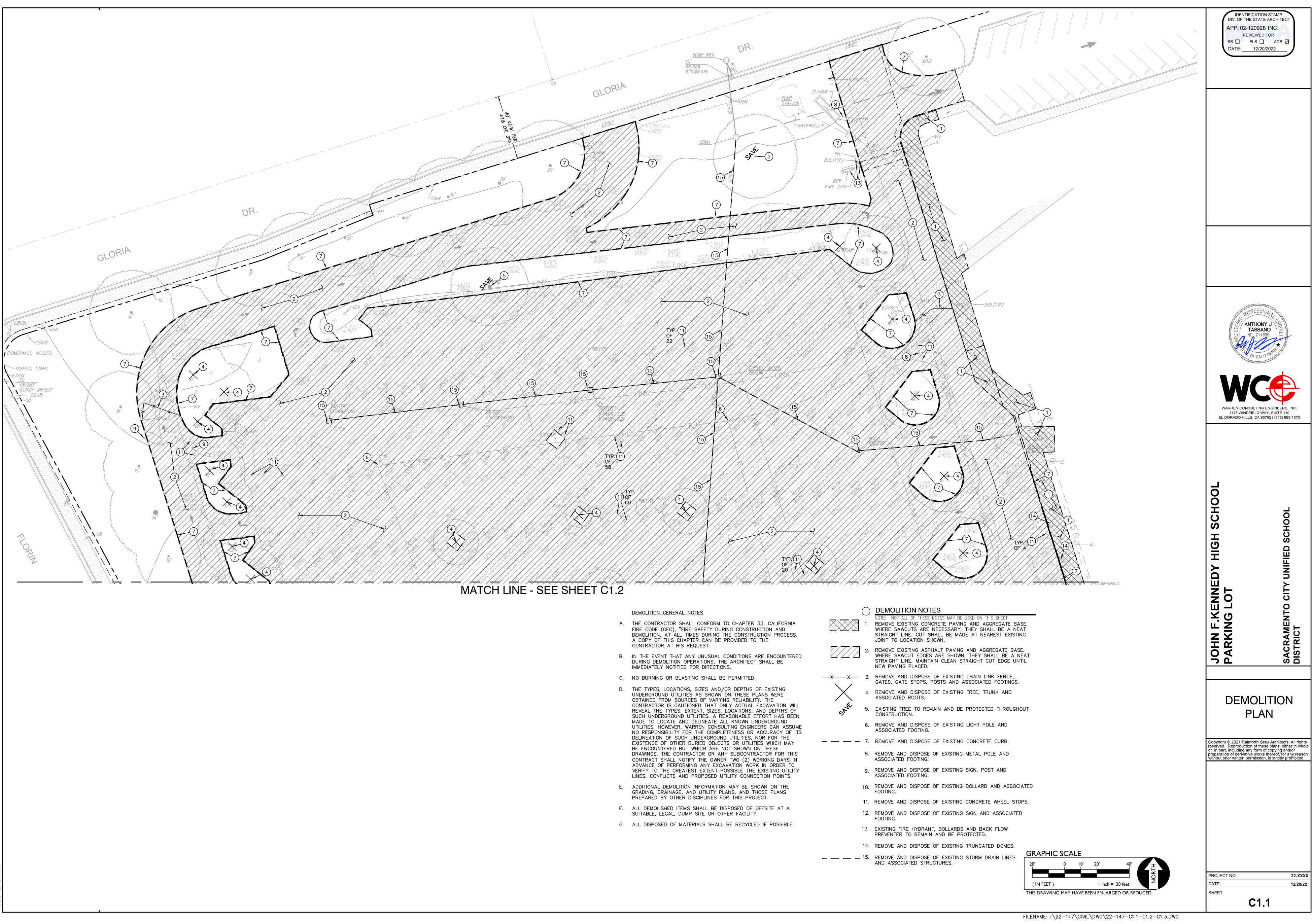




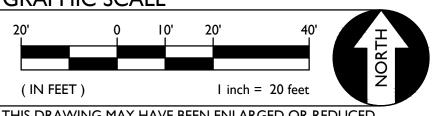


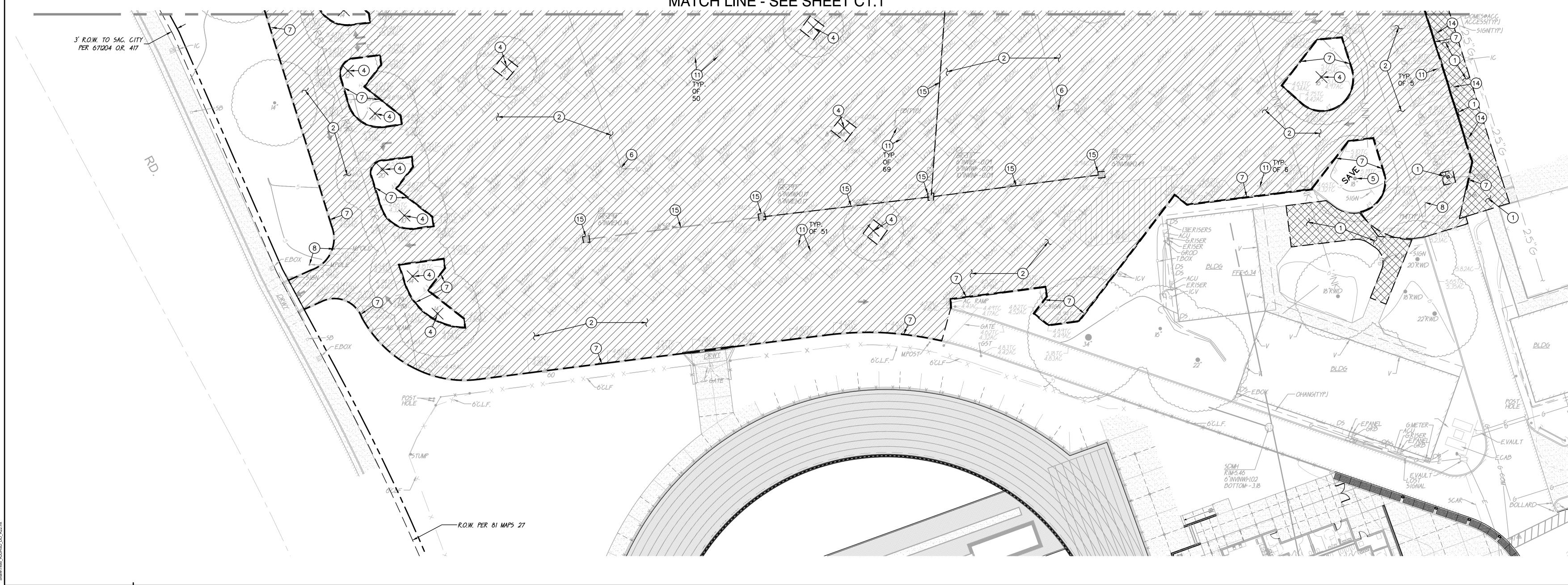




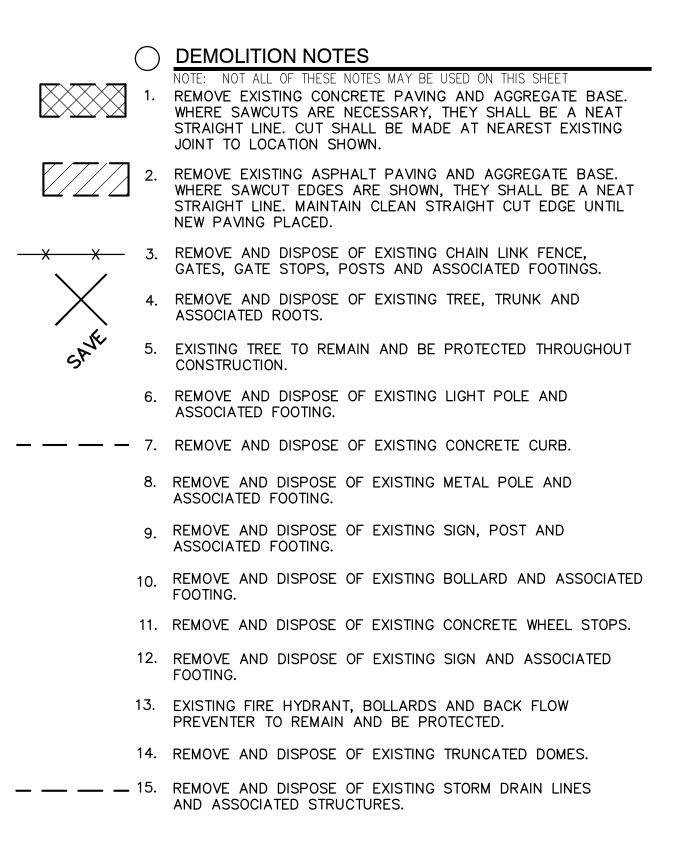


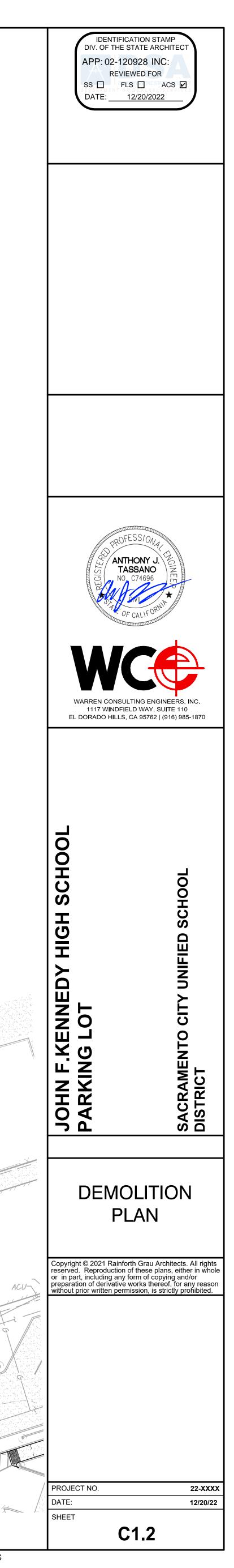
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ON WILL HS OF S BEEN	SAVE	5.	EXI: CON
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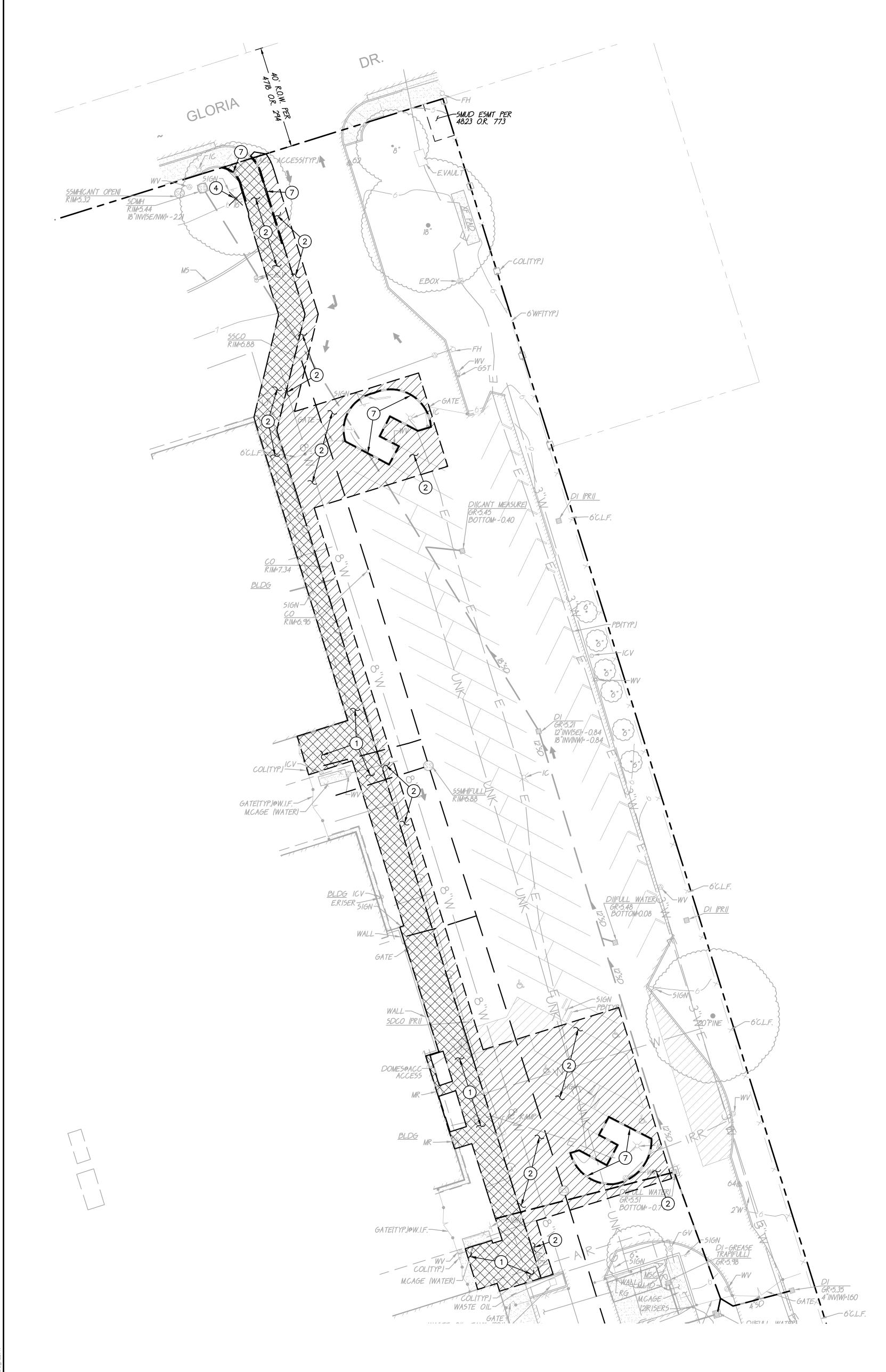




MATCH LINE - SEE SHEET C1.1







DEMOLITION GENERAL NOTES

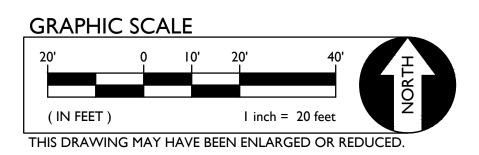
- A. THE CONTRACTOR SHALL CONFORM TO CHAPTER 33, CALIFORNIA FIRE CODE (CFC), "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AT ALL TIMES DURING THE CONSTRUCTION PROCESS. A COPY OF THIS CHAPTER CAN BE PROVIDED TO THE CONTRACTOR AT HIS REQUEST.
- B. IN THE EVENT THAT ANY UNUSUAL CONDITIONS ARE ENCOUNTERE DURING DEMOLITION OPERATIONS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- C. NO BURNING OR BLASTING SHALL BE PERMITTED.
- D. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSU NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF I DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE OWNER TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILIT LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- E. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- F. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- G. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.

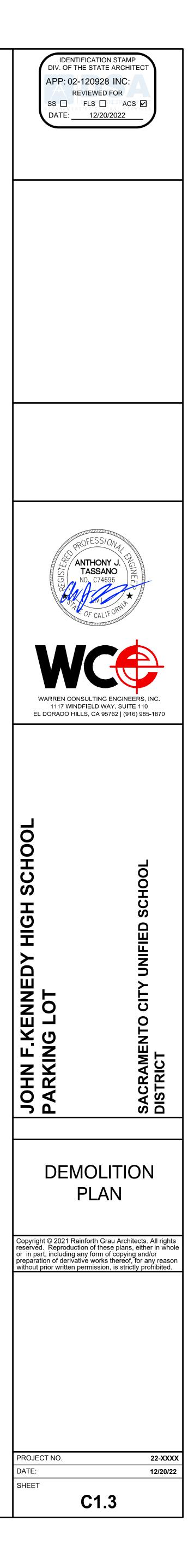
14. EXISTING BUILDING TO REMAIN.

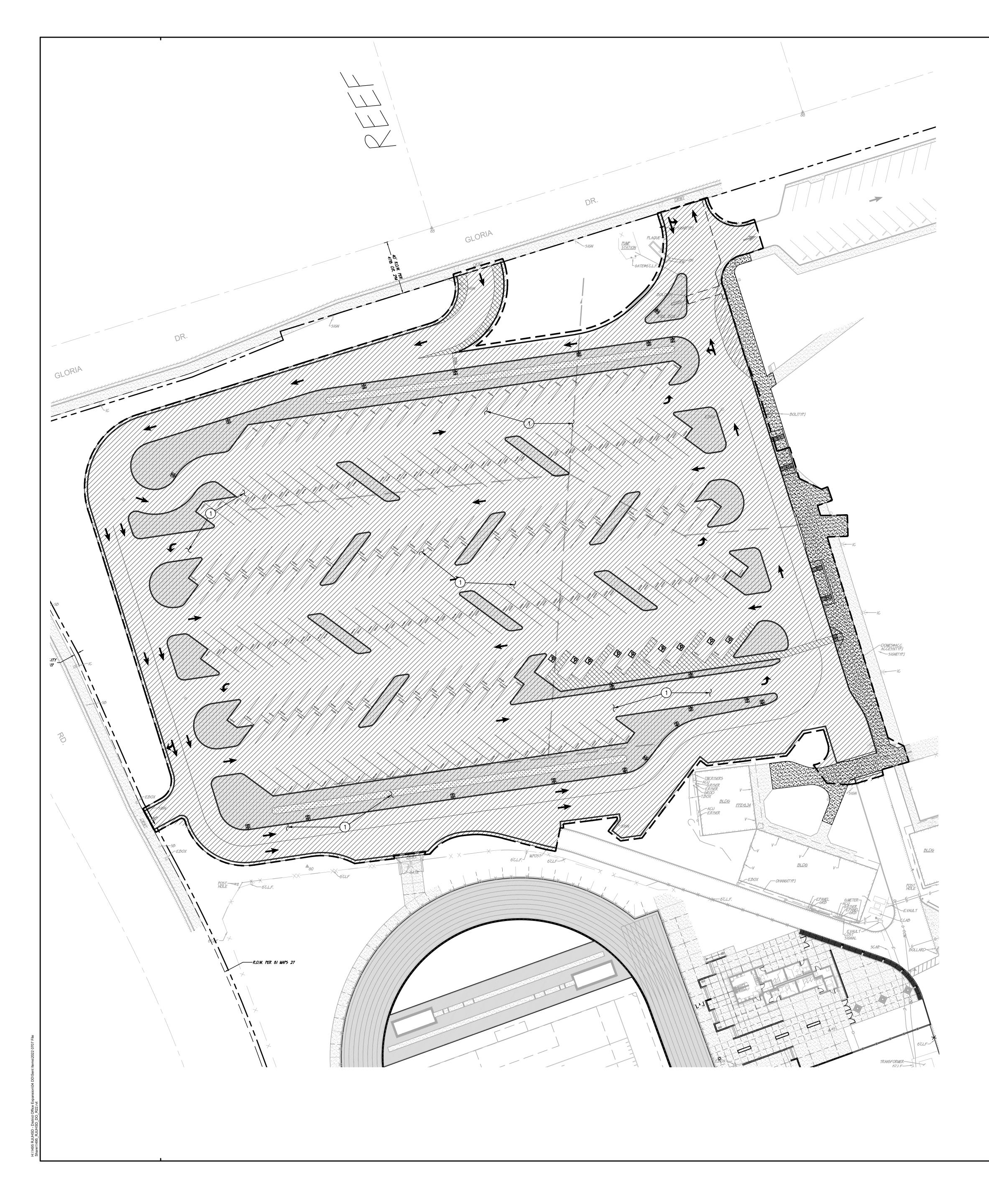
FOOTING.

15. REMOVE AND DISPOSE OF EXISTING WALL AND ASSOCIATED

	$\bigcirc$	DEMOLITION NOTES
IA SS.	1.	NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET REMOVE EXISTING CONCRETE PAVING AND AGGREGATE BASE. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
RED	2.	REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
	— X X 3.	REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, GATES, POSTS AND ASSOCIATED FOOTINGS.
	4.	REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
VILL OF EEN	GANE 5.	EXISTING TREE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
SUME TITS	6.	REMOVE EXISTING STORAGE CONTAINER AND RETURN TO DISTRICT FOR RELOCATION.
Y	<b>—</b> — — 7.	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
HIS IN	<b>— — —</b> 8.	REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE TO EXTENT SHOWN.
0 JTY	9.	REMOVE AND DISPOSE OF EXISTING DRAINAGE INLET/MANHOLE.
	10.	REMOVE AND DISPOSE OF EXISTING LIGHT POLE AND ASSOCIATED FOOTING.
	11.	REMOVE AND DISPOSE OF EXISTING CONCRETE WHEEL STOPS.
	12.	REMOVE AND DISPOSE OF EXISTING SIGN AND ASSOCIATED FOOTING.
<u>.</u>	13.	REMOVE AND SALVAGE EXISTING FIRE HYDRANT. SEE UTILITY SHEET FOR NEW LOCATION.









### SUBGRADE PREPARATION

FOR AREAS TO BE CUT TO ACHIEVE SUBGRADE, EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 6 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY

SOILS TO A MINIMUM DEPTH OF 6 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE PLACED IN LEVEL LAYERS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

THE UPPER 12 INCHES OF PROPOSED SUBGRADE SHALL BE LIME TREATED AT A RATE OF AT LEAST 4.5 POUNDS OF QUICKLIME PER SQUARE FOOT MIXING DEPTH. LIME TREATED SUBGRADE SHALL BE COMPACTED TO NOT LESS 95 PERCENT OF THE ASTM D1557 MAXIUM DRY DENSITY, AT A MOISTURE CONTENT OF A LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

LIME TREATMENT SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED ASPHALT AND CONCRETE PAVING WHEN NOT ABUTTING EXISTING PAVING..

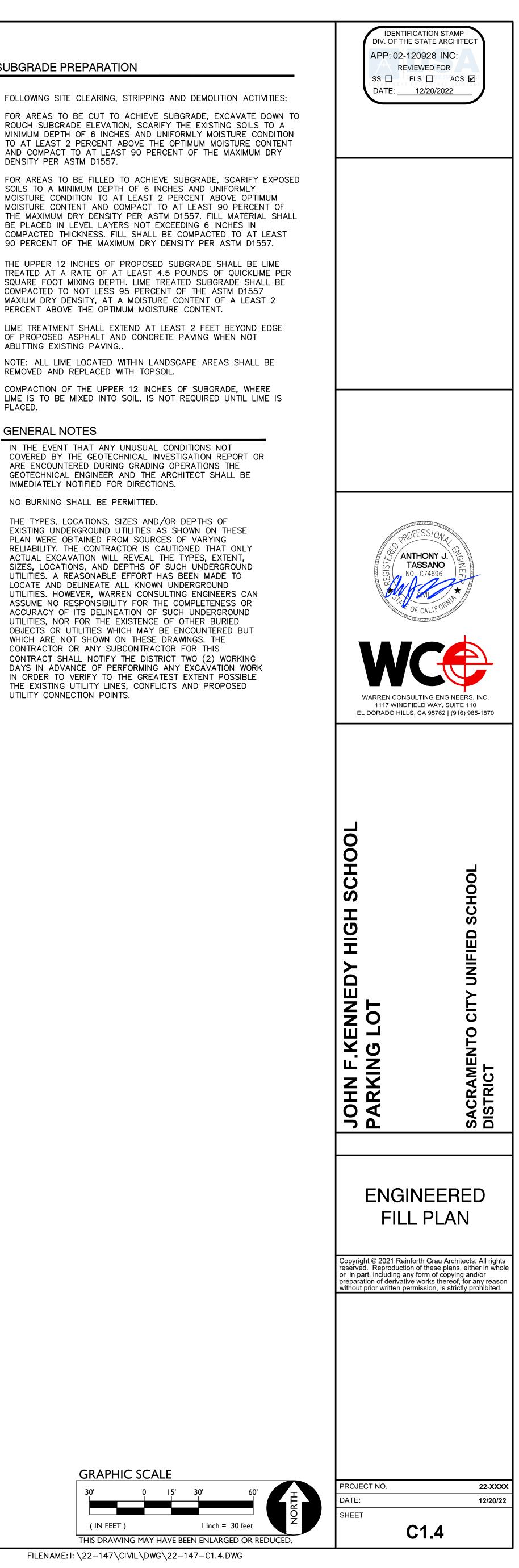
NOTE: ALL LIME LOCATED WITHIN LANDSCAPE AREAS SHALL BE REMOVED AND REPLACED WITH TOPSOIL.

COMPACTION OF THE UPPER 12 INCHES OF SUBGRADE, WHERE LIME IS TO BE MIXED INTO SOIL, IS NOT REQUIRED UNTIL LIME IS PLACED.

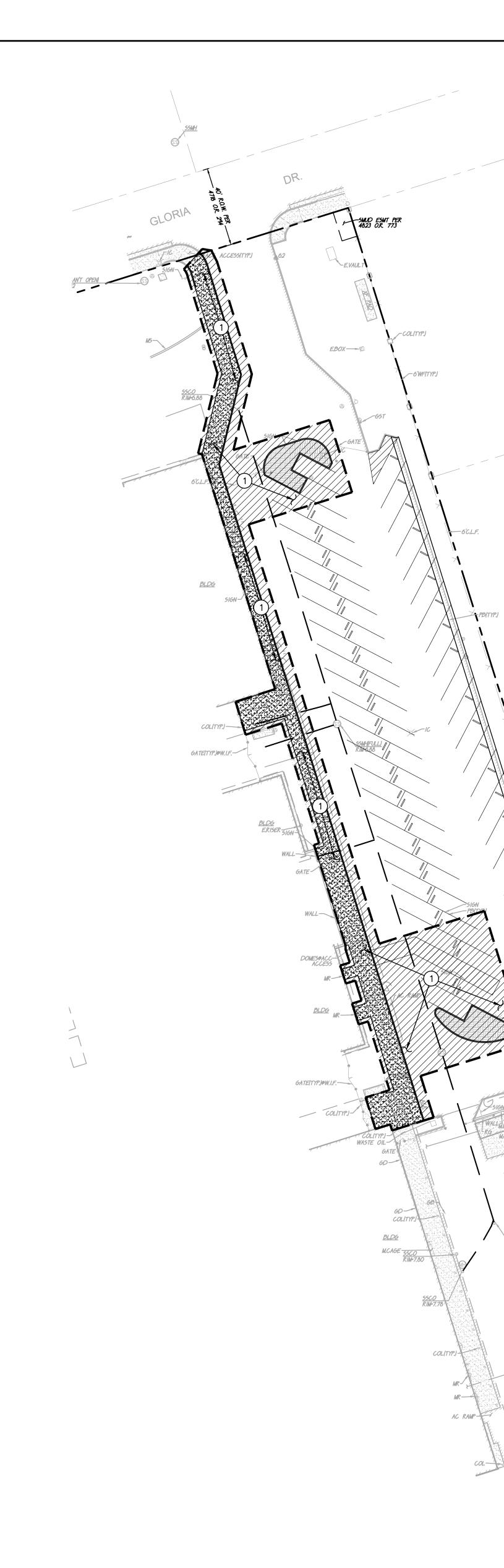
GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

- 2. NO BURNING SHALL BE PERMITTED.
- 3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.



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## SUBGRADE PREPARATION

FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES: FOR AREAS TO BE CUT TO ACHIEVE SUBGRADE, EXCAVATE DOWN TO

ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 6 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

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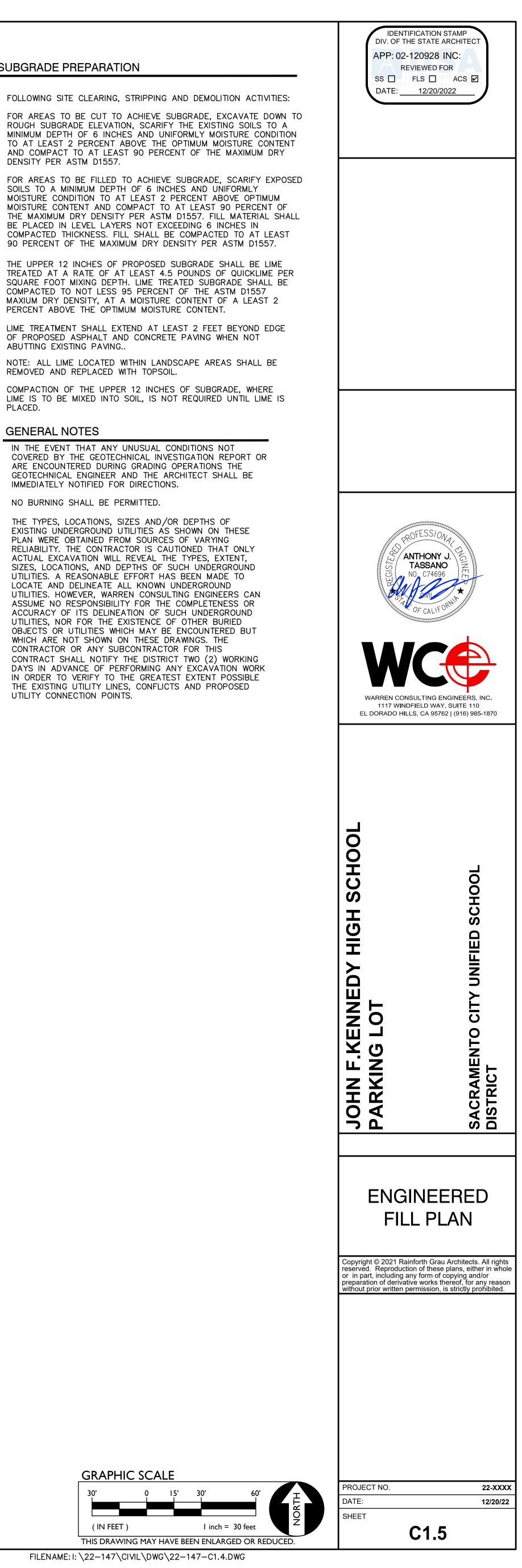
NOTE: ALL LIME LOCATED WITHIN LANDSCAPE AREAS SHALL BE REMOVED AND REPLACED WITH TOPSOIL.

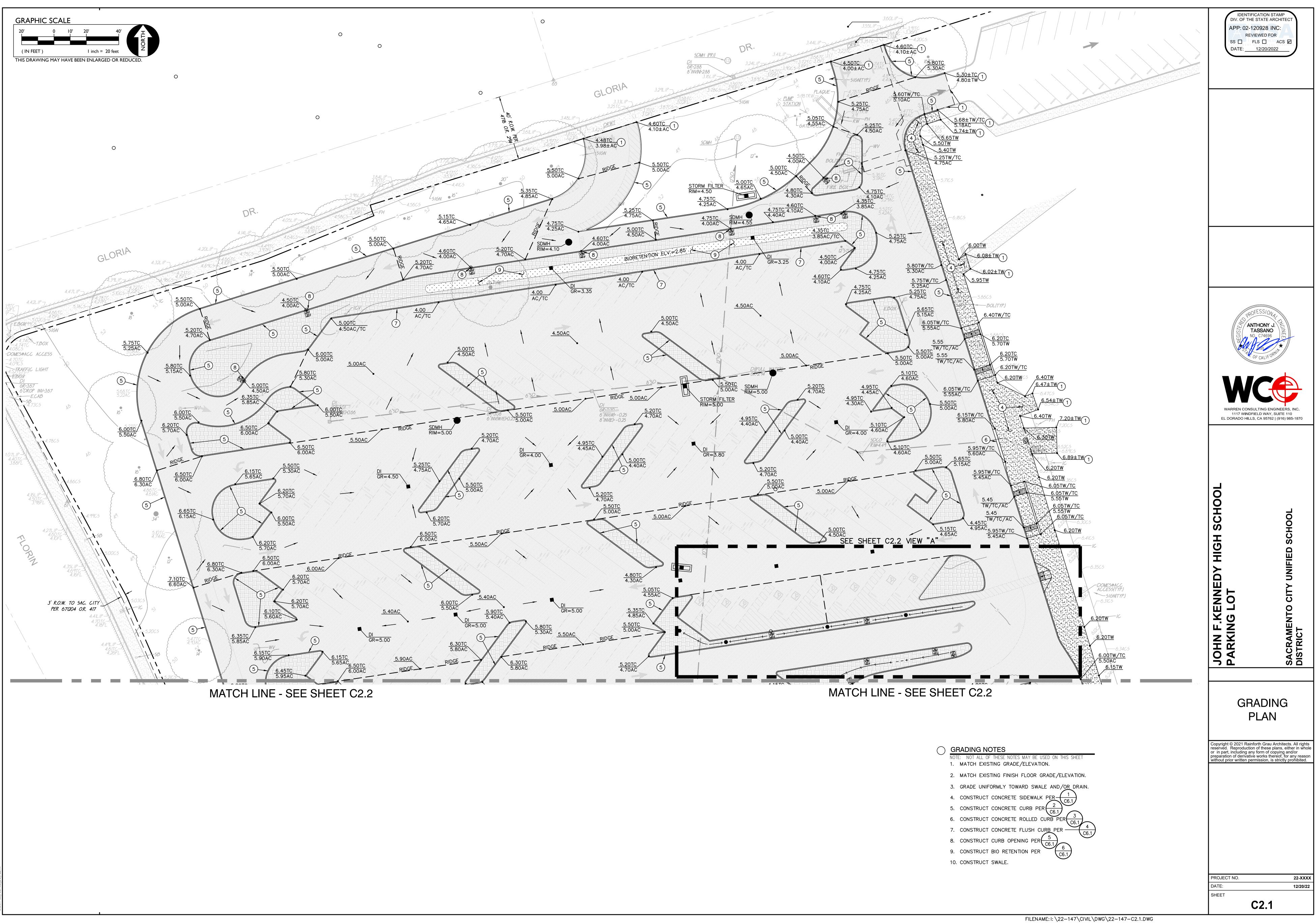
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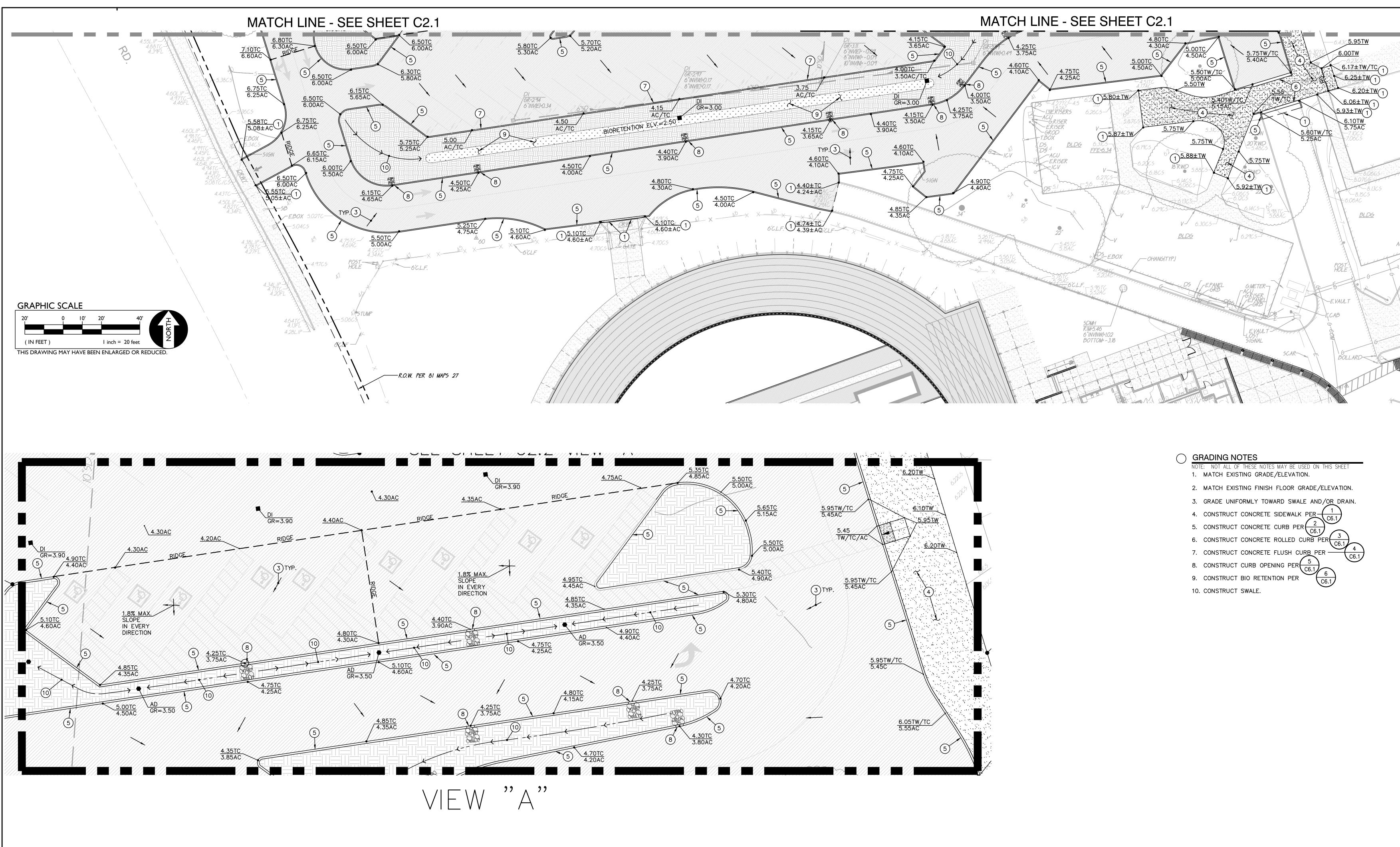
GENERAL NOTES

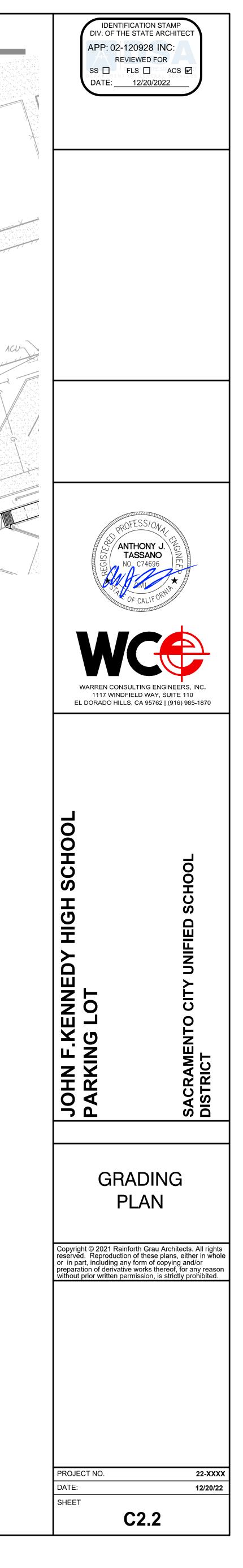
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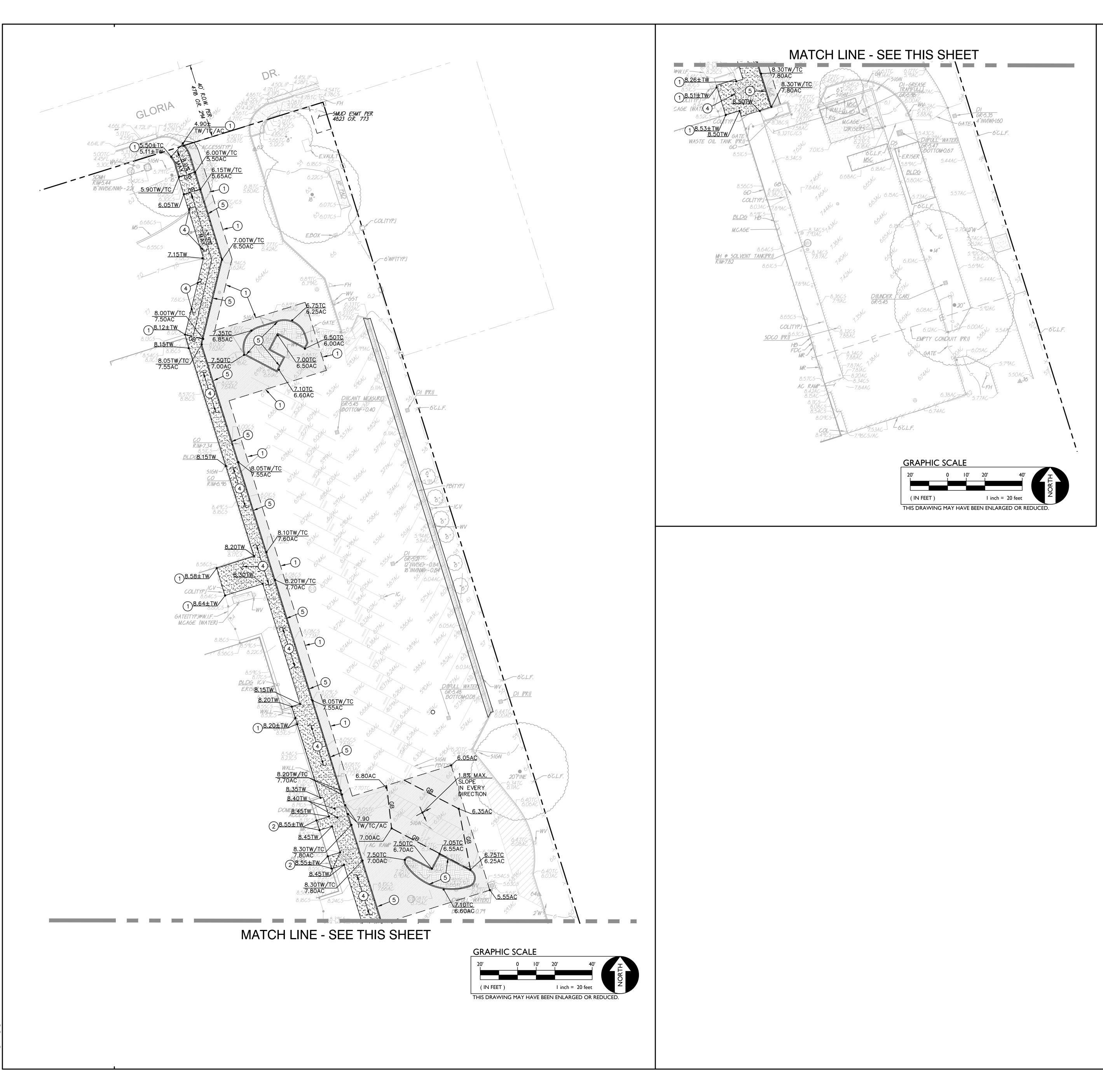
- 2. NO BURNING SHALL BE PERMITTED.
- 3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.











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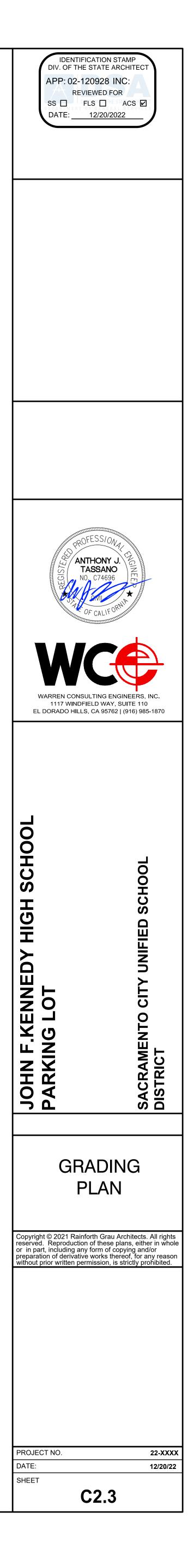
- NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET
   MATCH EXISTING GRADE/ELEVATION.
   MATCH EXISTING FINISH FLOOR GRADE/ELEVATION.
   GRADE UNIFORMLY TOWARD SWALE AND/OR DRAIN.

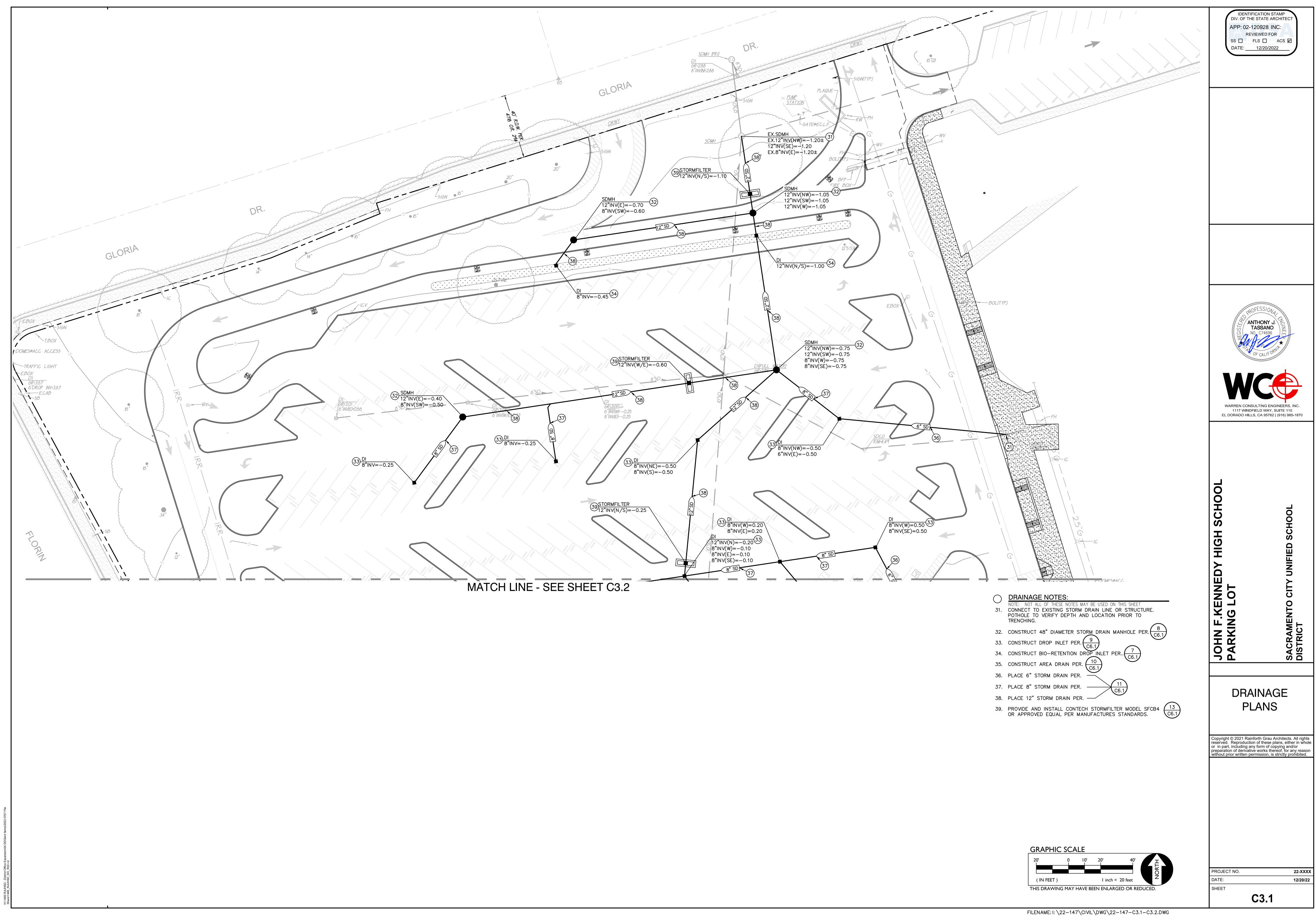
- 6. CONSTRUCT CONCRETE ROLLED CURB PER
- 7. CONSTRUCT CONCRETE FLUSH CURB PER

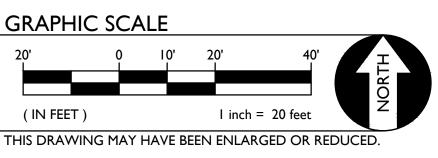
C6.1

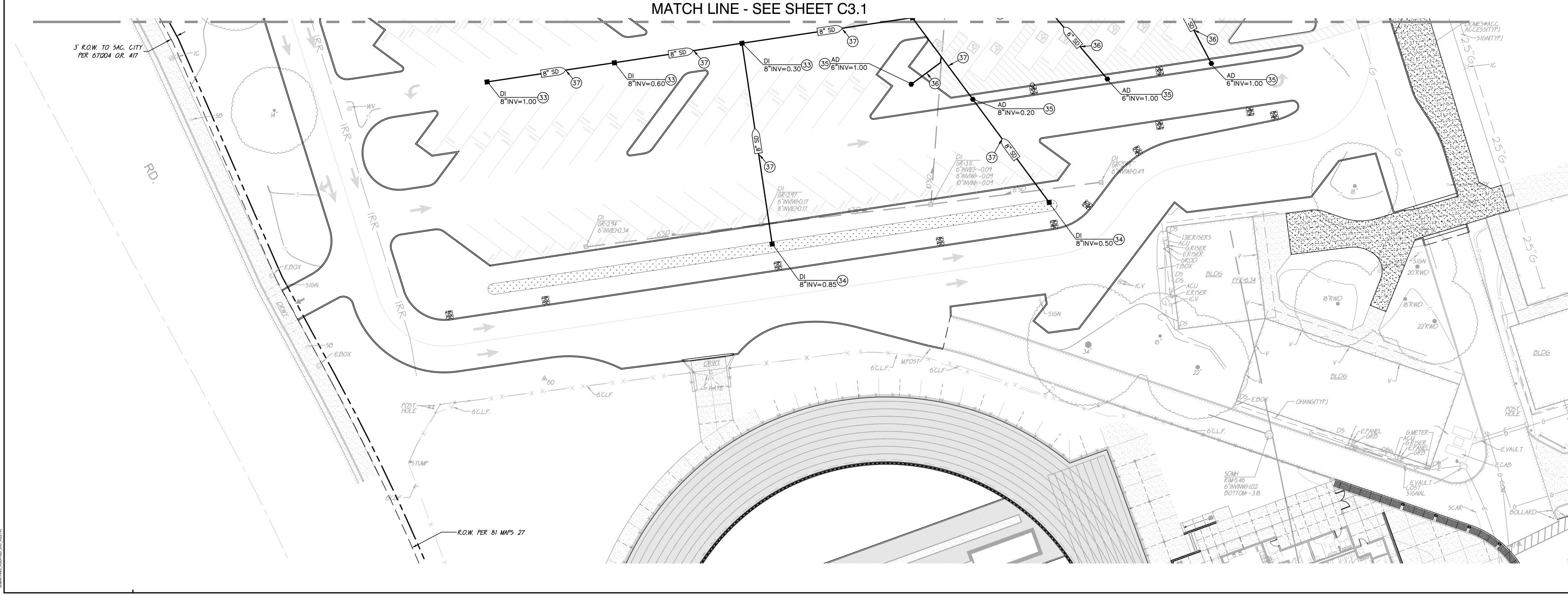
C6.1

- 8. CONSTRUCT CURB OPENING PER $\begin{pmatrix} 5\\ C6.1 \end{pmatrix}$
- 9. CONSTRUCT BIO RETENTION PER
- 10. CONSTRUCT SWALE.









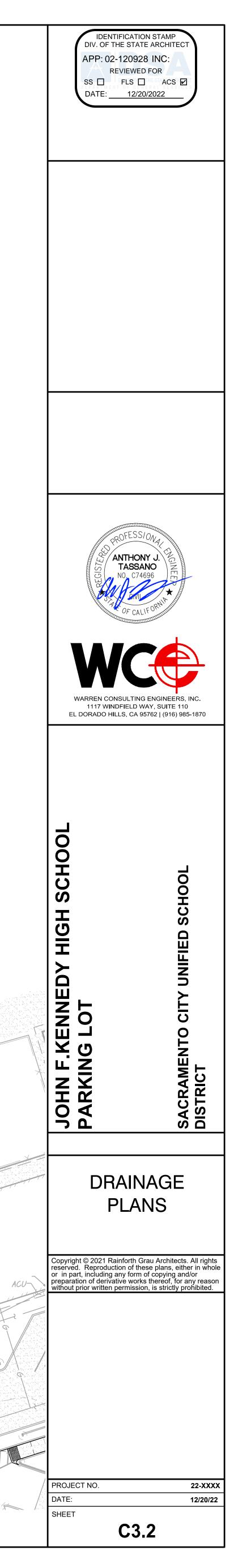
MATCH LINE - SEE SHEET C3.1

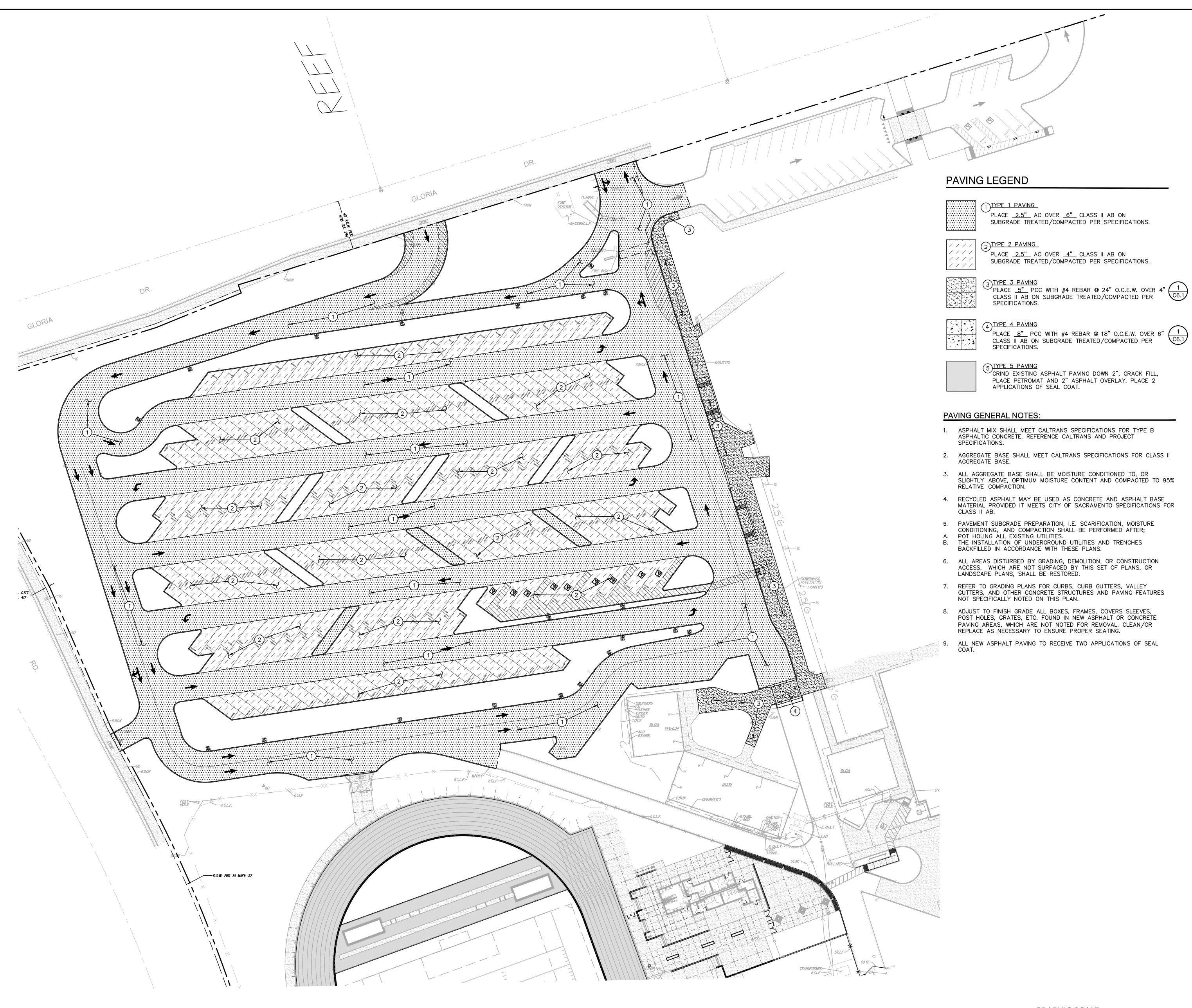
39. PROVIDE AND INSTALL CONTECH STORMFILTER MODEL SFCB4 (13) OR APPROVED EQUAL PER MANUFACTURES STANDARDS. (6.1)

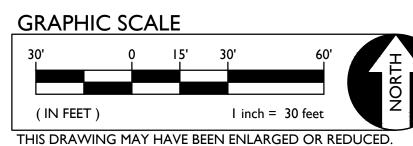
C6.1

- 38. PLACE 12" STORM DRAIN PER.
- 37. PLACE 8" STORM DRAIN PER. —
- 36. PLACE 6" STORM DRAIN PER. —
- 34. CONSTRUCT BIO-RETENTION DROP INLET PER.  $\begin{pmatrix} 7 \\ C6.1 \end{pmatrix}$ 35. CONSTRUCT AREA DRAIN PER.  $\begin{pmatrix} 10 \\ C6.1 \end{pmatrix}$
- DRAINAGE NOTES: NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET
   CONNECT TO EXISTING STORM DRAIN LINE OR STRUCTURE. POTHOLE TO VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.
   CONSTRUCT 48" DIAMETER STORM DRAIN MANHOLE PER. 8 C6.1

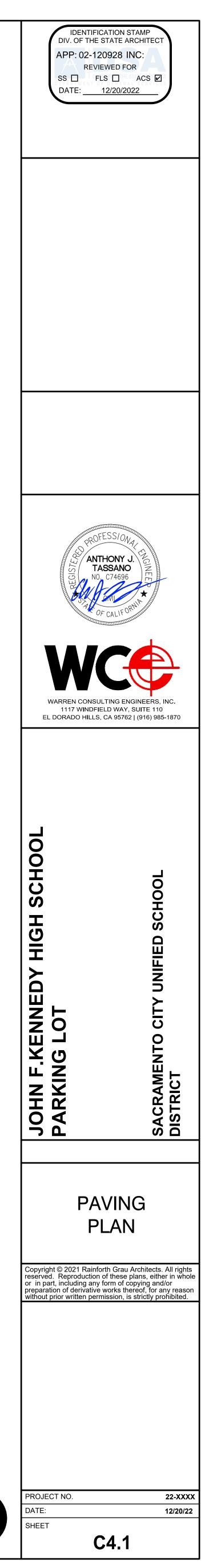
   CONSTRUCT DROP INLET PER. 9 C6.1

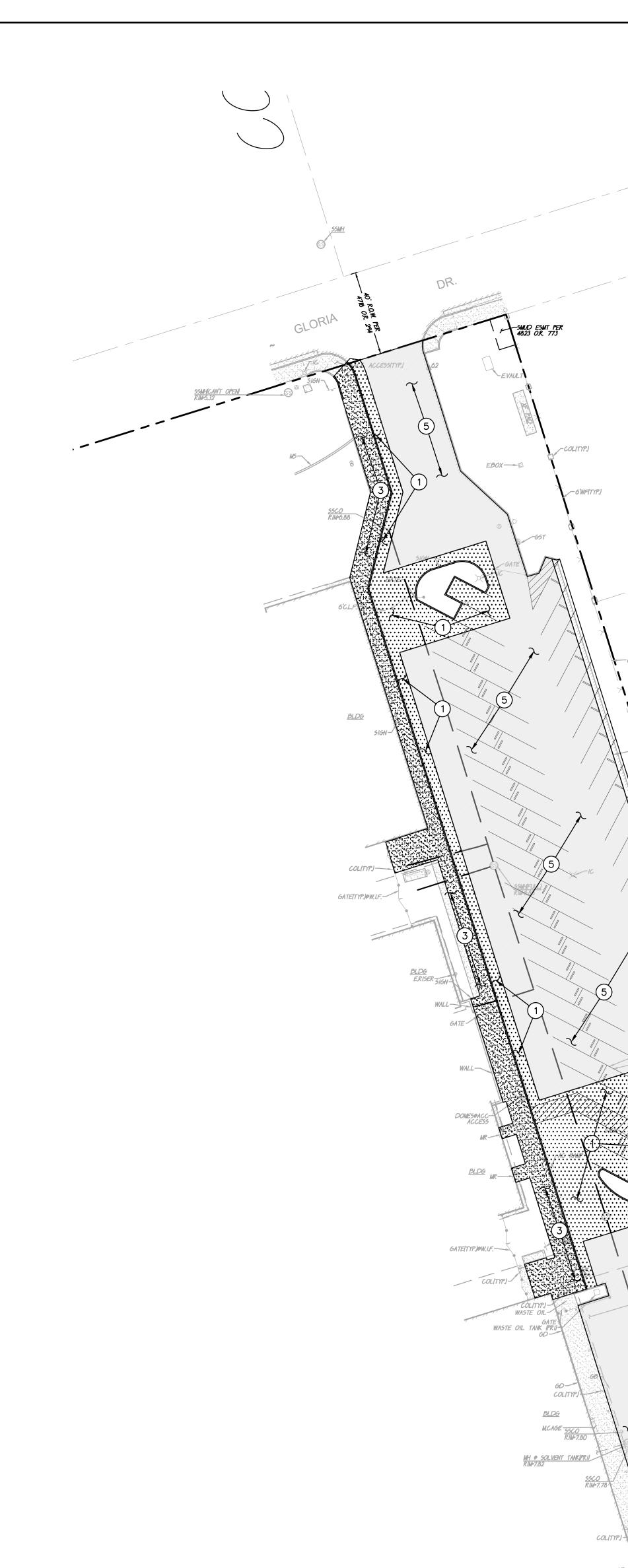






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# PAVING LEGEND

Image: Type 1 Paving         Image: Displace 1 Paving         PLACE 2.5" AC OVER 6" CLASS II AB ON         SUBGRADE TREATED/COMPACTED PER SPECIFICATIONS.
2       TYPE 2 PAVING         2       PLACE 2.5" AC OVER 4" CLASS II AB ON         2       SUBGRADE TREATED/COMPACTED PER SPECIFICATIONS.
3 <u>TYPE 3 PAVING</u> PLACE <u>5</u> PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 4" 1 CLASS II AB ON SUBGRADE TREATED/COMPACTED PER C6.1 SPECIFICATIONS.
TYPE 4 PAVING PLACE <u>8</u> " PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE TREATED/COMPACTED PER SPECIFICATIONS.
5 <u>TYPE 5 PAVING</u> GRIND EXISTING ASPHALT PAVING DOWN 2", CRACK FILL, PLACE PETROMAT AND 2" ASPHALT OVERLAY. PLACE 2 APPLICATIONS OF SEAL COAT.

PAVING GENERAL NOTES:

SIGN

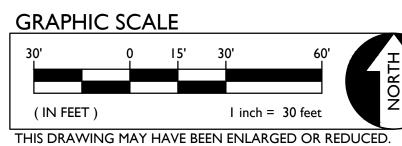
(5)

6'C.L.F.

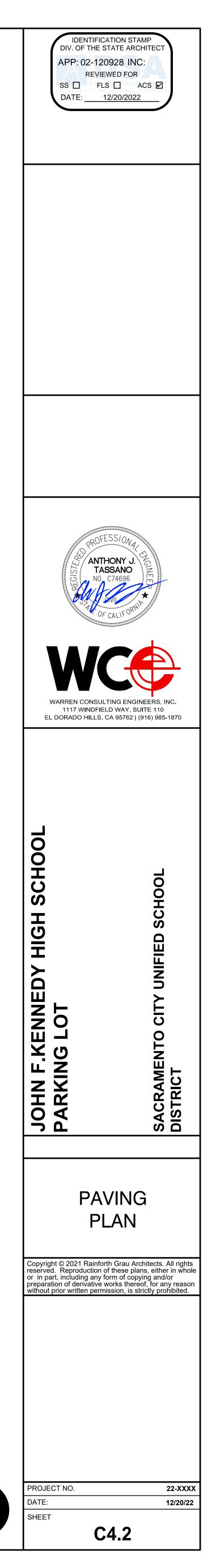
—6'C.L.F.

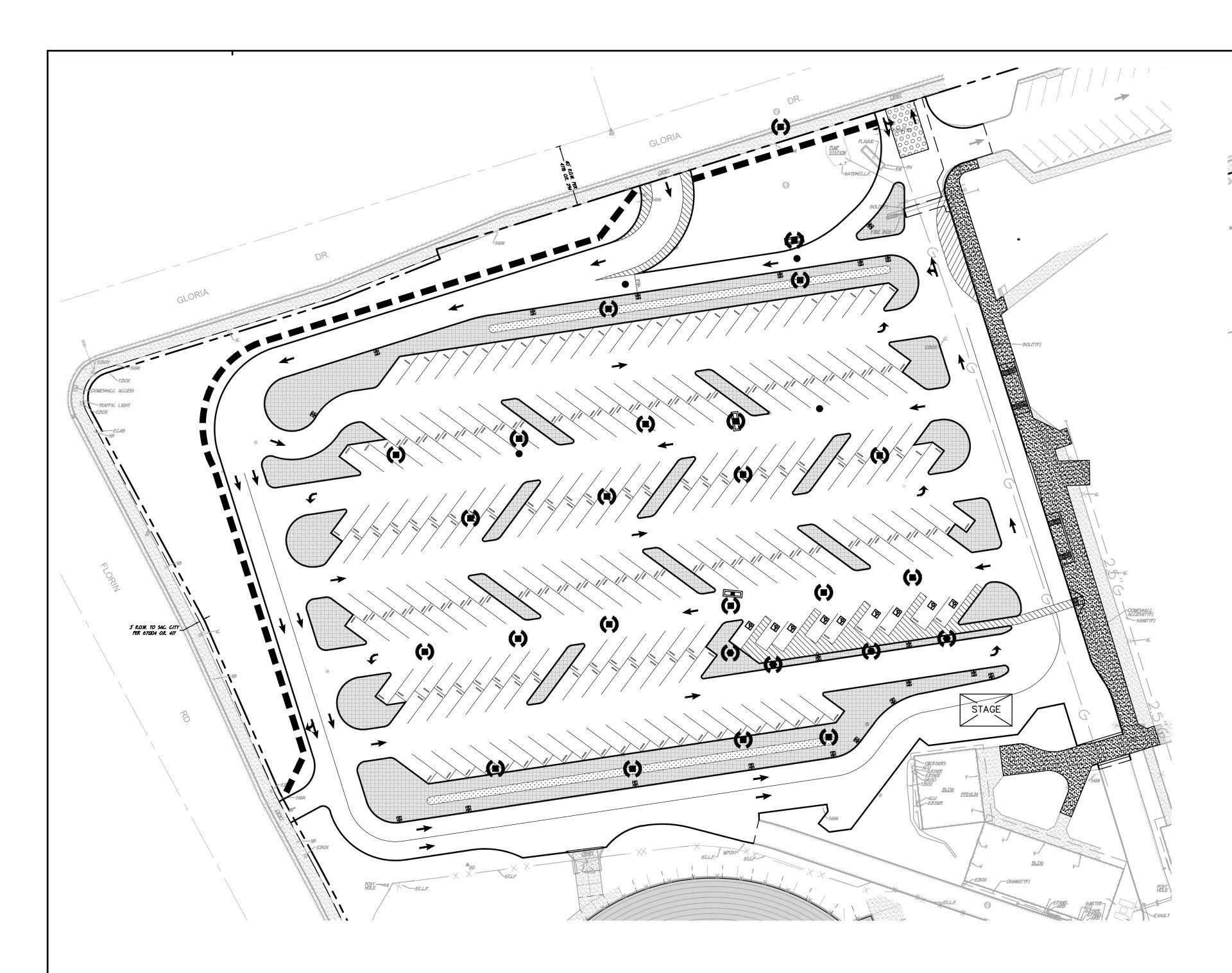
(5)

- 1. ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS AND PROJECT SPECIFICATIONS.
- AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
- ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CITY OF SACRAMENTO SPECIFICATIONS FOR CLASS II AB.
- 5. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER; A. POT HOLING ALL EXISTING UTILITIES.
- B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
- 6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
- 7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- 8. ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. CLEAN/OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.
- 9. ALL NEW ASPHALT PAVING TO RECEIVE TWO APPLICATIONS OF SEAL COAT.



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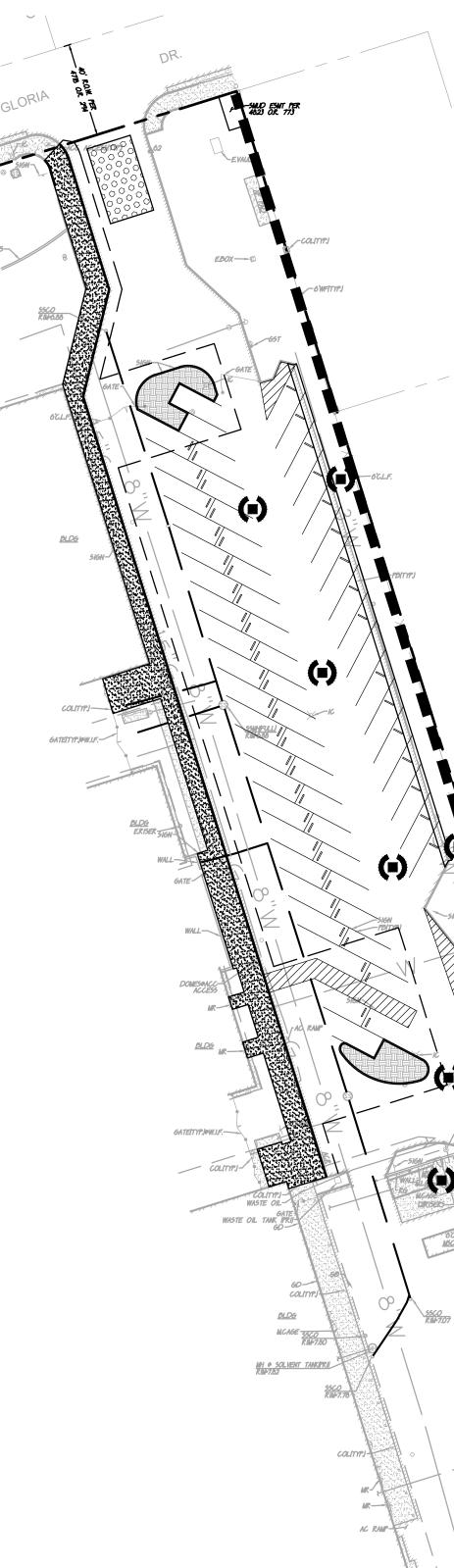


## MONITORING SCHEDULE

- WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO EACH QUALIFYING RAIN EVENT.
- 2. EVERY 24 HOURS DURING A QUALIFYING RAIN EVENT.
- WITHIN 2 BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT RESULTING IN 0.50 INCHES OF RAIN OR MORE.
- RECORD THE TIME, DATE AND RAIN GAUGE READING OF ALL QUALIFYING RAIN EVENTS.
- . QUARTERLY NON-STORM WATER DISCHARGE INSPECTIONS.
- WEEKLY INSPECTIONS.

PROJECT INFORMATION		
PARCEL AREA	41.90	ACRES
TOTAL DISTURBED AREA	6.97	ACRES
S.W.P.P.P. REQUIRED?		YES

PHASE OF	EROSION AND SEDIMENT CONTROL MEASURES																
CONSTRUCTION	WET SEASON											WET &	DRY SEASON	l			
	HYDRO- SEEDING	STRAW MULCHING TACTIFIER	SOIL BINDERS	PRESERVATION OF EXISTING VEGITATION	BLANKETS MATS & GEOTEXTILES	FIBER ROLLS	DUST CONTROL	OUTLET PROTECTION	SILT FENCING	SAND/GRAVEL BAG BARRIERS	STORM DRAIN INLET PROTECTION	SEDIMEN BASIN		DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRE WASHOL
PRE-GRADING	Х	X		X			Х		N/A			N/A	N/A				
CUT-FILL ACTIVITIES	Х	X	Х	Х	Х	Х	Х			Х	Х		Х	X	Х	Х	
UNDERGROUND WORK	Х	X	Х	Х	Х	Х	Х	Х		Х	Х		Х	X	Х	Х	Х
STORM IMPROVEMENTS	Х		Х	Х	Х	Х	Х	Х		Х	Х		Х	X	Х	Х	Х
CURB AND GUTTER	N/A		Х	Х	Х	Х	Х	Х		Х	Х			X	Х	Х	Х
STREET IMPROVEMENTS			Х	Х	Х	Х	Х	Х		Х	Х			X	Х	Х	Х
PAVE OUT				Х	Х		Х	Х		Х	Х			X		Х	Х
POST CONSTRUCTION			Х	Х	Х												
MAINTENANCE SCHEDULE																	
DAILY*																	
WEEKLY*		X	Х		Х	Х		Х		Х	Х				Х	Х	X
MONTHLY*																	
BEFORE RAIN		Х	Х		Х	Х		Х		Х	Х						
DURING RAIN		Х	Х		Х	Х		Х		Х	Х						
AFTER RAIN		Х	Х		Х	Х		Х		Х	Х						
AS NEEDED				Х			Х						1	Х			



	50' MIN.			
	3"-6" FRACTURE			_
GEOTEXTILE - MATERIAL	<u>SECTION A-</u>	. L <sub>12</sub> '	'MIN.	
CONSTRUCTION	12' MIN. DIRECT TRA TRA PLAN VIEW		R/W	
CONSTRUCTED C CONFORMING TC OVER GEOTEXTIL MINIMUM THICKN SPREADING AND SECTION 26 OF 2. LENGTH OF SITE FIFTY FEET. WID FEET OR AS NE AND EGRESS.	NESS OF SIX INCHES COMPACTING ROCK THE STATE SPECIF ACCESS SHALL BE TH SHALL BE A MI CESSARY TO COVER SS SHALL BE KEPT	ROCK MATE TATE SPECIF K SHALL BE S. THE METH K SHALL CO ICATIONS. E A MINIMUM NIMUM WIDTH R ALL VEHIC	ERIAL FICATIONS PLA PLACED TO IOD OF PLACI NFORM TO I LENGTH OF H OF TWELVE FULAR INGRES	A NG,
J ST	ABILIZED SITE	CONST ACCES	S	
3CE101			NO SC	CALE

CONSTRUCTION SITE R/W

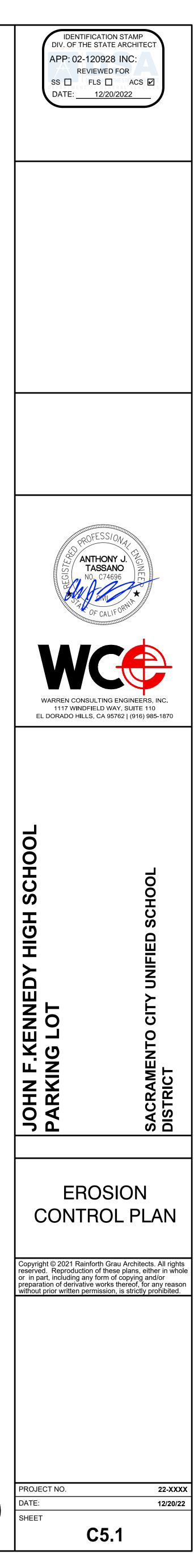
## EROSION AND SEDIMENT CONTROL GENERAL NOTES

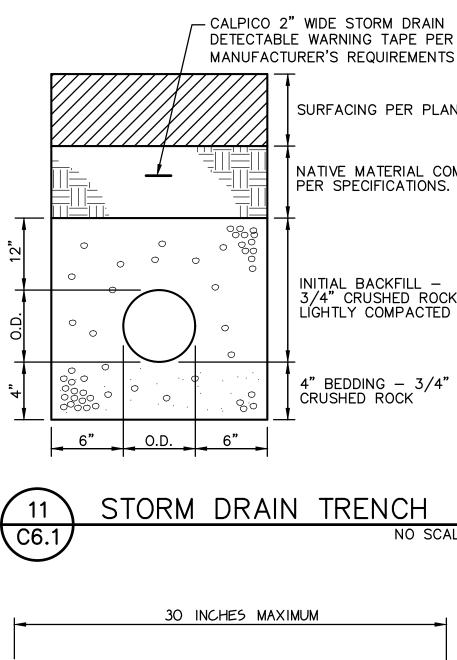
- 1. IF CERTAIN SOIL TYPES (E.G. COLLOIDAL SOILS) ARE DETECTED, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL TREATMENT MEASURES PRIOR TO DISCHARGE.
- 2. CONTRACTOR IS RESPONSIBLE FOR THE DEWATERING AND REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES JUST PRIOR TO THE COMMENCING OF THE FINAL GRADING AND PAVING OPERATIONS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SITE TO MINIMIZE DUST CREATED DURING CONSTRUCTION.
- 4. PRIOR TO PLACEMENT OF HYDRO SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES (STRAW WATTLE FENCE AND TRACKED LOOSE STRAW).
- 5. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPLIANCE WITH STATE WATER RESOURCES CONTROL BOARD REQUIREMENTS.
- 6. ALL MATERIALS STORED ON-SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS.
- 7. CONTRACTOR SHALL MAINTAIN ALL WATTLE OR SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AS WELL AS BEFORE, DURING, AND AFTER A STORM EVENT. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED. REFER TO SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.
- 8. CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION FENCING THROUGHOUT THE PROJECT. THIS FENCING SHALL DETER PEDESTRIANS AND NON-CONSTRUCTION RELATED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE AREA TO THE GREATEST POSSIBLE EXTEND, THE CONTRACTOR SHALL COORDINATE THIS FENCING LAYOUT WITH SCHOOL DISTRICT PERSONNEL PRIOR TO ANY FENCING PLACEMENT SO AS TO NOT SIGNIFICANTLY INTERFERE WITH SCHOOL OPERATION.
- 9. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.
- 10. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.

-5/GW	<u>LEGEND</u>	#       EROSION CONTROL NOTES         NOTE:       EXACT LOCATION WILL BE COORDINATED BY       CONTRACTOR
	) (-)	AND PROJECT QSP. 1. CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF ON-SITE WORK PER THE DETAIL PROVIDED. IN ADDITION TO WATTLE, PROVIDE FILTER BAG AT EACH INLET. STRAW WATTLES NOT REQUIRED AT INLETS IN PAVED AREAS, ONLY FILTER BAG.
		2. CONTRACTOR SHALL PROVIDE STRAW WATTLES AT 2 PERIMETER OF SITE PER DETAIL
C <sup>ev</sup> sign	000000000000000000000000000000000000000	3. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS
641E 661E 661E 661E 661E 661E 661E	STAGE	4. CONTRACTOR SHALL CONSTRUCT AND UTILIZE A STAGING AREA IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS IN SECTION 4 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK. SIZE AS NEEDED. AFTER CONSTRUCTION COMPLETE, RETURN AREA TO NATURAL CONDITION.
		ANY CHANGES MADE TO THE SWPPP IN THE FIELD MUST BE SHOWN ON THE MAP. UPDATE MAP TO REFLECT CHANGES.
CO EIPTY CONDUIT IRU EIPTY CONDUIT IRU		MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.
GATE		STORM DRAINAGE OUTFALL BMP'S REFER TO PROTECT CONSTRUCTION PLAN DETAILS FOR SPECIFIC POST CONSTRUCTION BMP MEASURES AT OUTFALL STRUCTURES.
		SEDIMENT AND EROSION CONTROL MEASURES ON SWPPP MAP ARE MINIMUM BMP'S RECOMMENDED FOR COMPLIANCE. CONSTRUCTION SITE MUST BE MONITORED AND BMP'S SHALL BE MODIFIED DEPENDING ON CONSTRUCTION SCHEDULE AND RAIN EVENTS.
		ADD TO MAP AS LOCATED IN THE FIELD
		CONSTRUCTION TRAILER.
		VEHICLE/EQUIPMENT MAINTENANCE AND FUELING AREA.
NLET		COVERED WASTE STORAGE (DUMPSTERS).
	-	STAGE STAGING AREA
MEW STAKE X/ STAKE SECTION A-		MATERIAL STORAGE
<u>NOTE:</u> STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3–1/2" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.		SP SOIL STOCKPILES.
$\sim$		CWO CONCRETE WASHOUT.
1 STRAW WATTLE INLET FILTER 3CE101 NO SCAL		
/X/ STAKE 3-A 3-A 3-A 3'-5" 8"-10" DIA. SECTION		
<u>NOTE:</u> STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.		
2 STRAW ROLLS		GRAPHIC SCALE           40'         0         20'         40'         80'         T
3CE101 NO SCALE		40' 0 20' 40' 80' (IN FEET) I inch = 40 feet

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THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.







STORMWATER STAMP/PLAQUE 12 C6.1 OTHER STYLES OK WITH APPROVAL NO SCALE

### - CALPICO 2" WIDE STORM DRAIN DETECTABLE WARNING TAPE PER

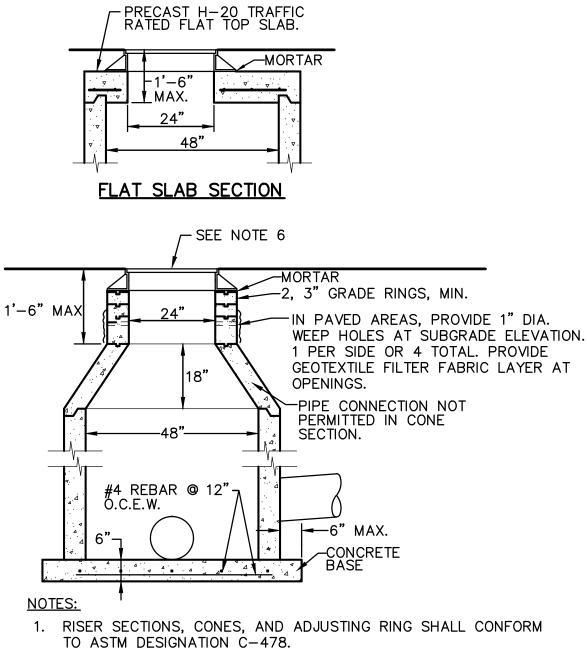
SURFACING PER PLANS

NATIVE MATERIAL COMPACTED PER SPECIFICATIONS.

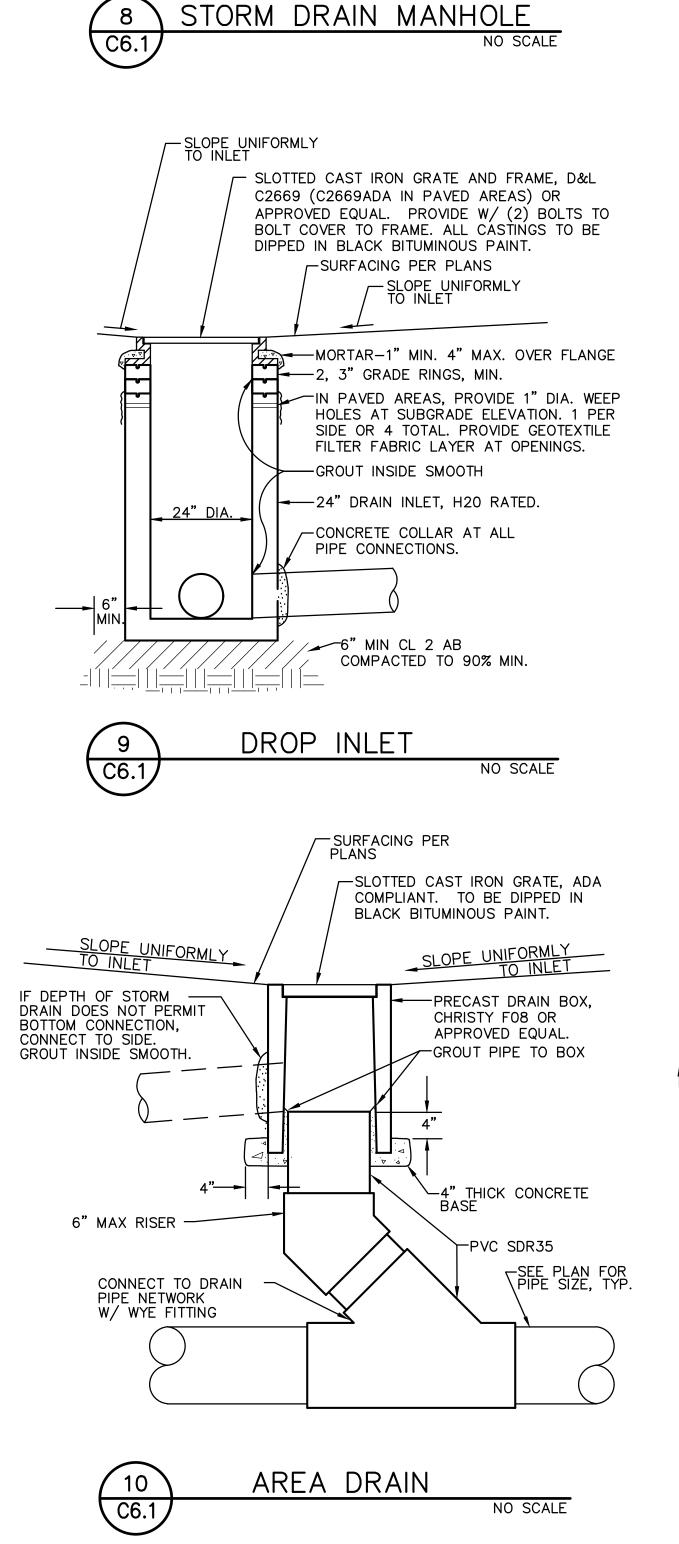
INITIAL BACKFILL -3/4" CRUSHED ROCK, LIGHTLY COMPACTED

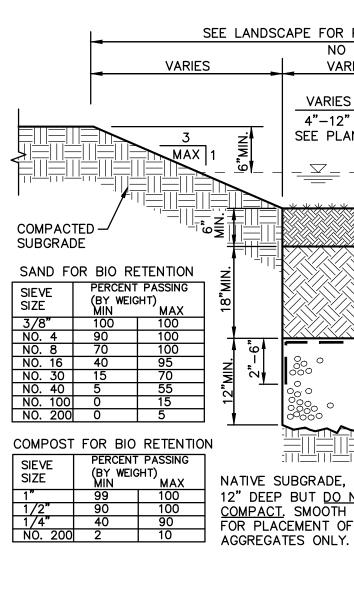
4" BEDDING - 3/4" CRUSHED ROCK

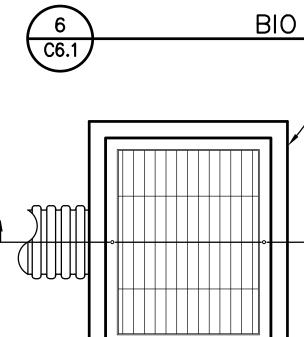
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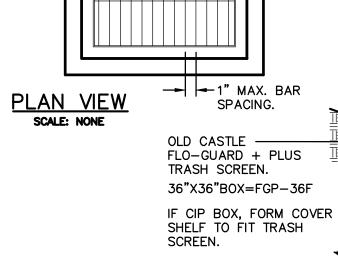


- 2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
- 3. THE CONTRACTOR MAY AT HIS OPTION, CAST THE LOWER PORTION OF MANHOLE IN PLACE. THE CAST-IN-PLACE PORTION SHALL NOT BE PLACED HIGHER THAN 6 INCHES ABOVE THE OUTSIDE TOPS OF THE MAIN INCOMING AND OUTGOING PIPES.
- 4. ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
- 5. FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT. FLAT TOP SLAB TO BE TRAFFIC RATED.
- 6. SLOTTED CAST IRON GRATE AND FRAME SHALL BE D&L C2669 (C2669ADA IN PAVED AREAS) OR APPROVED EQUAL. PROVIDE WITH TWO (2) BOLTS TO BOLT COVER/GRATE TO FRAME. SOLID COVERS TO BE MARKED "STORM DRAIN". ALL CASTINGS TO BE DIPPED IN BLACK BITUMINOUS PAINT.

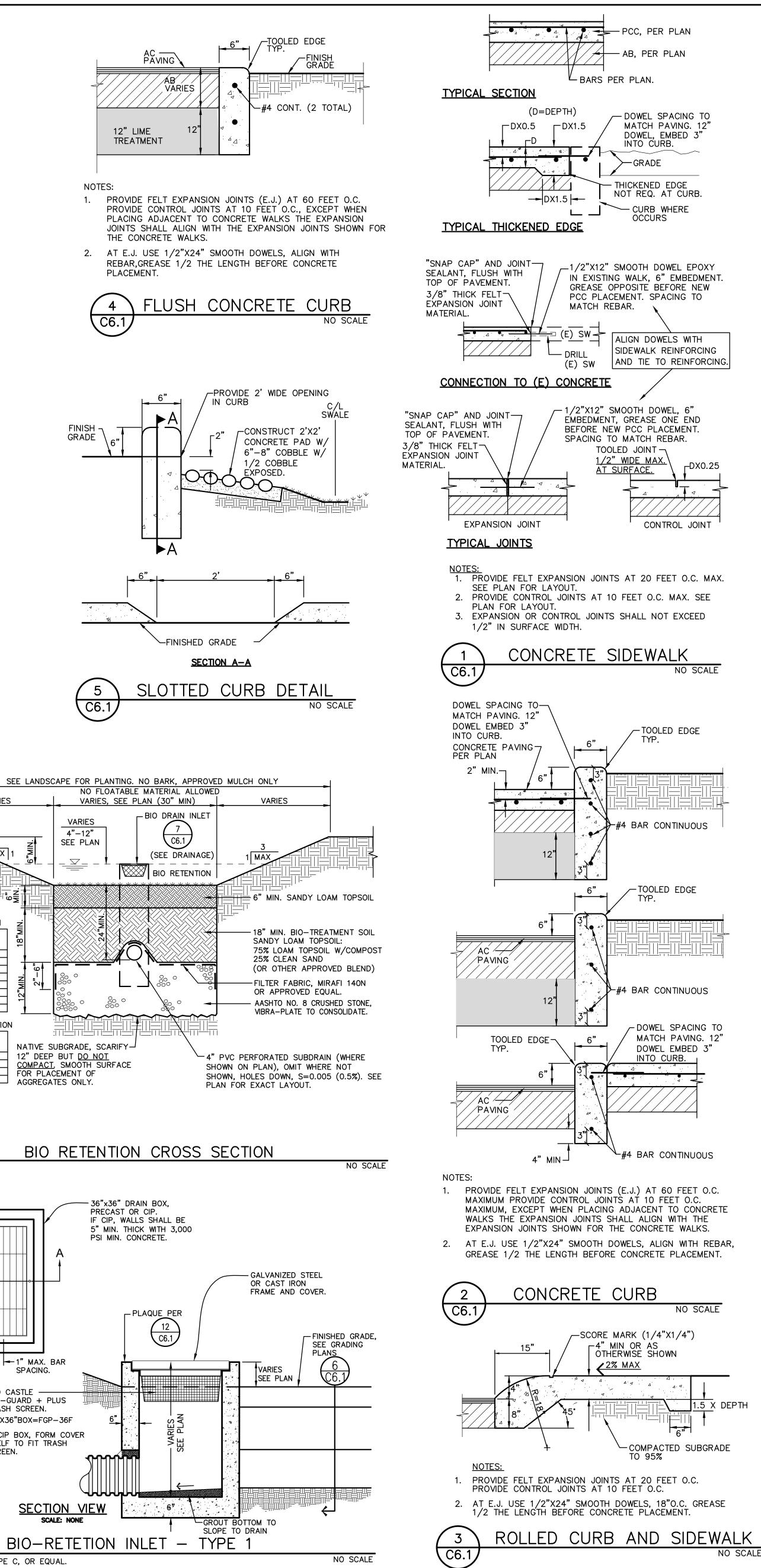


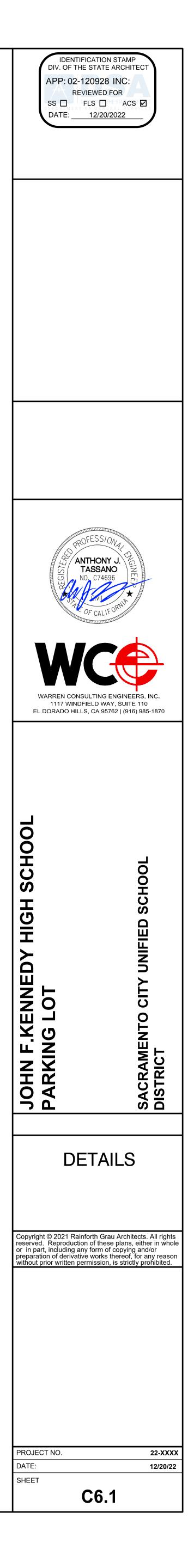


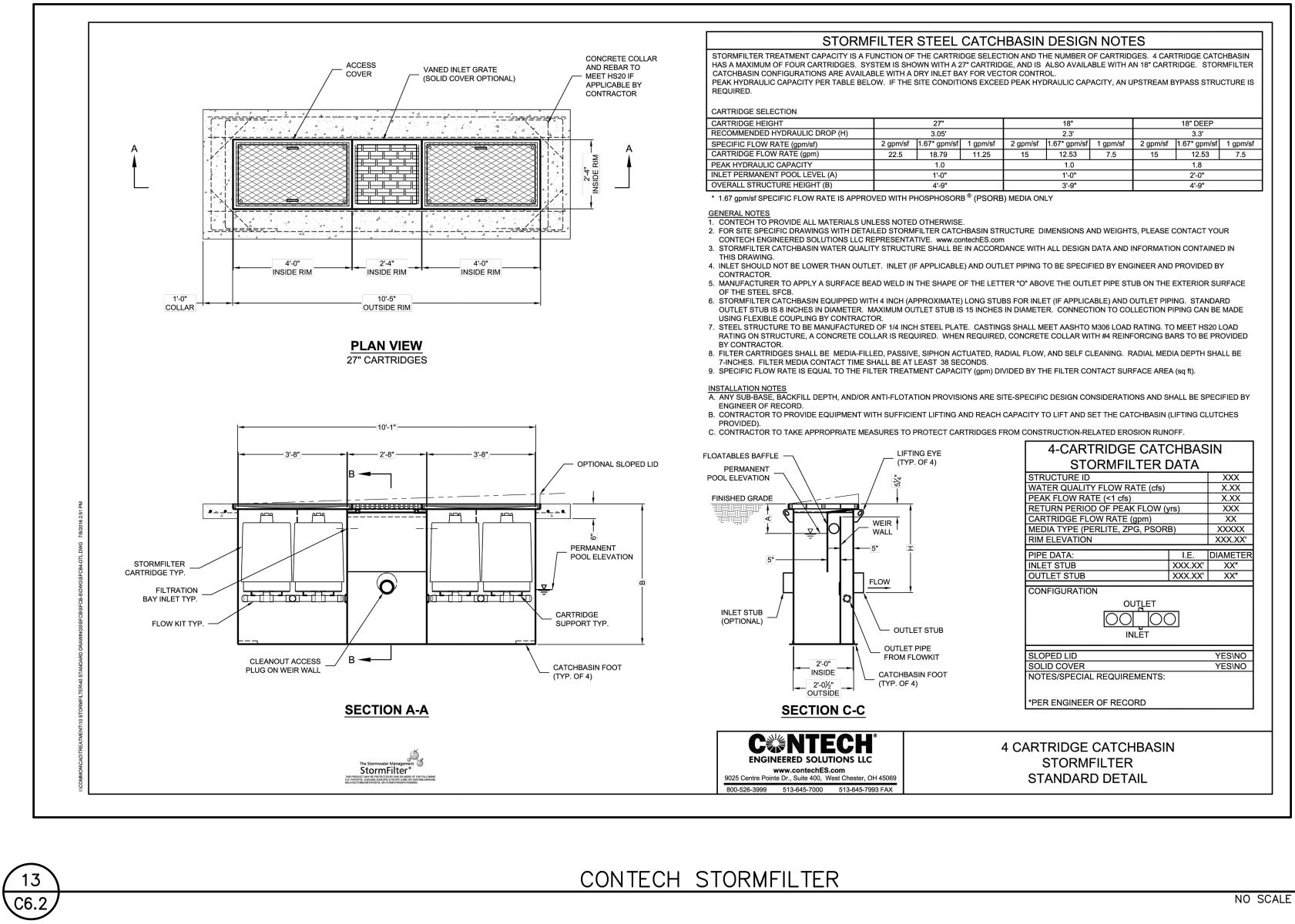




C6.1 OLD CASTLE TYPE C, OR EQUAL.

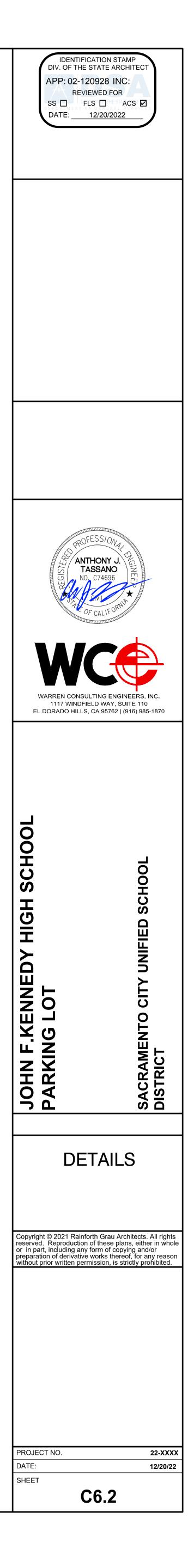


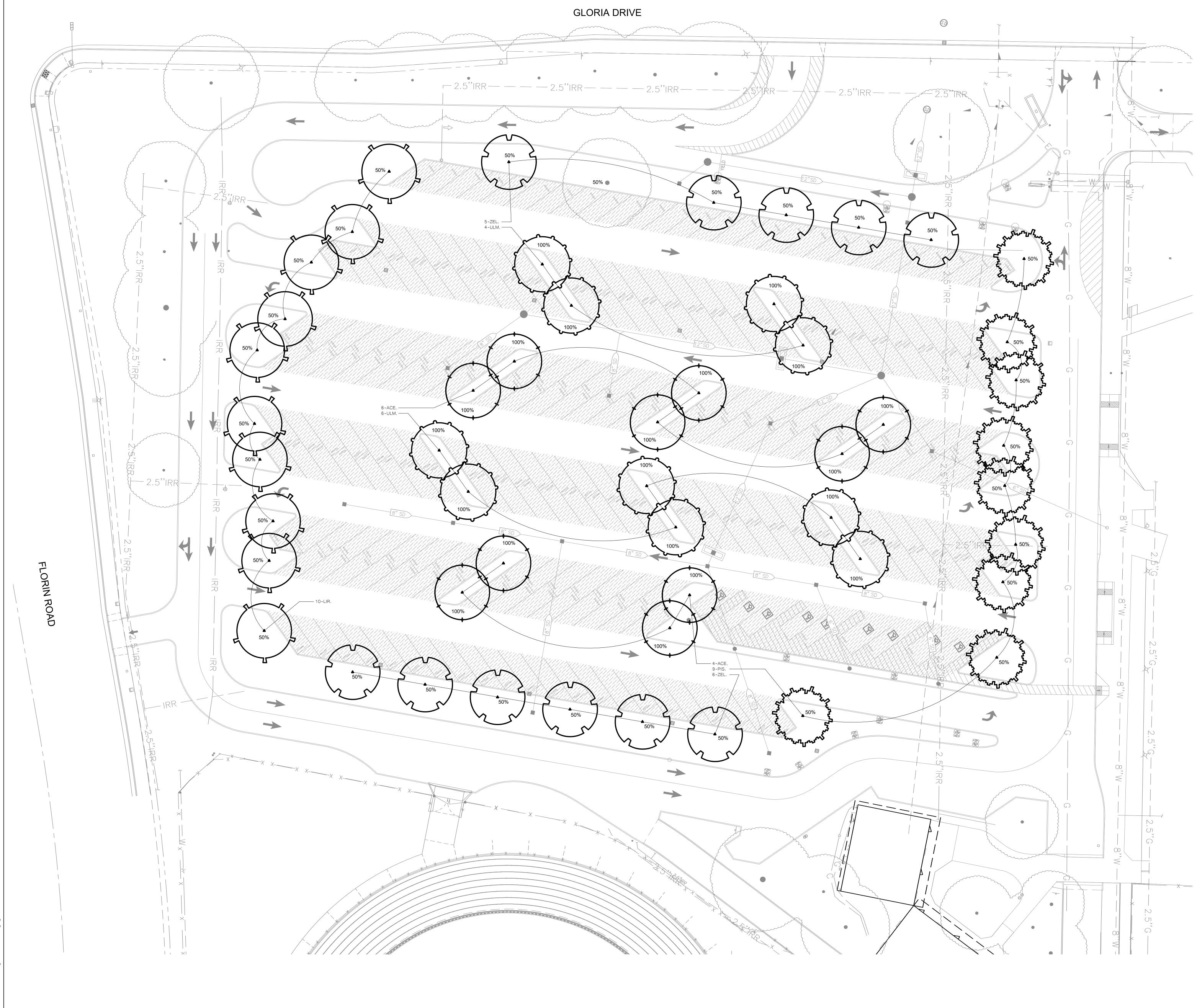




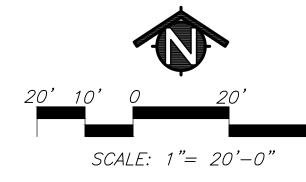
CONTECH STORMFILTER

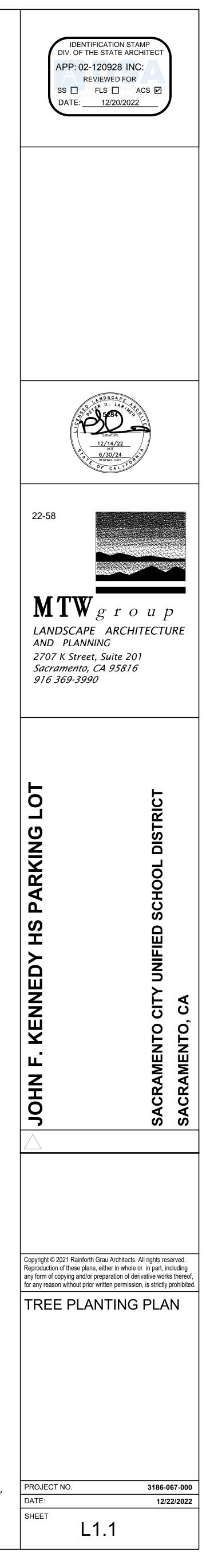
NO SCALE





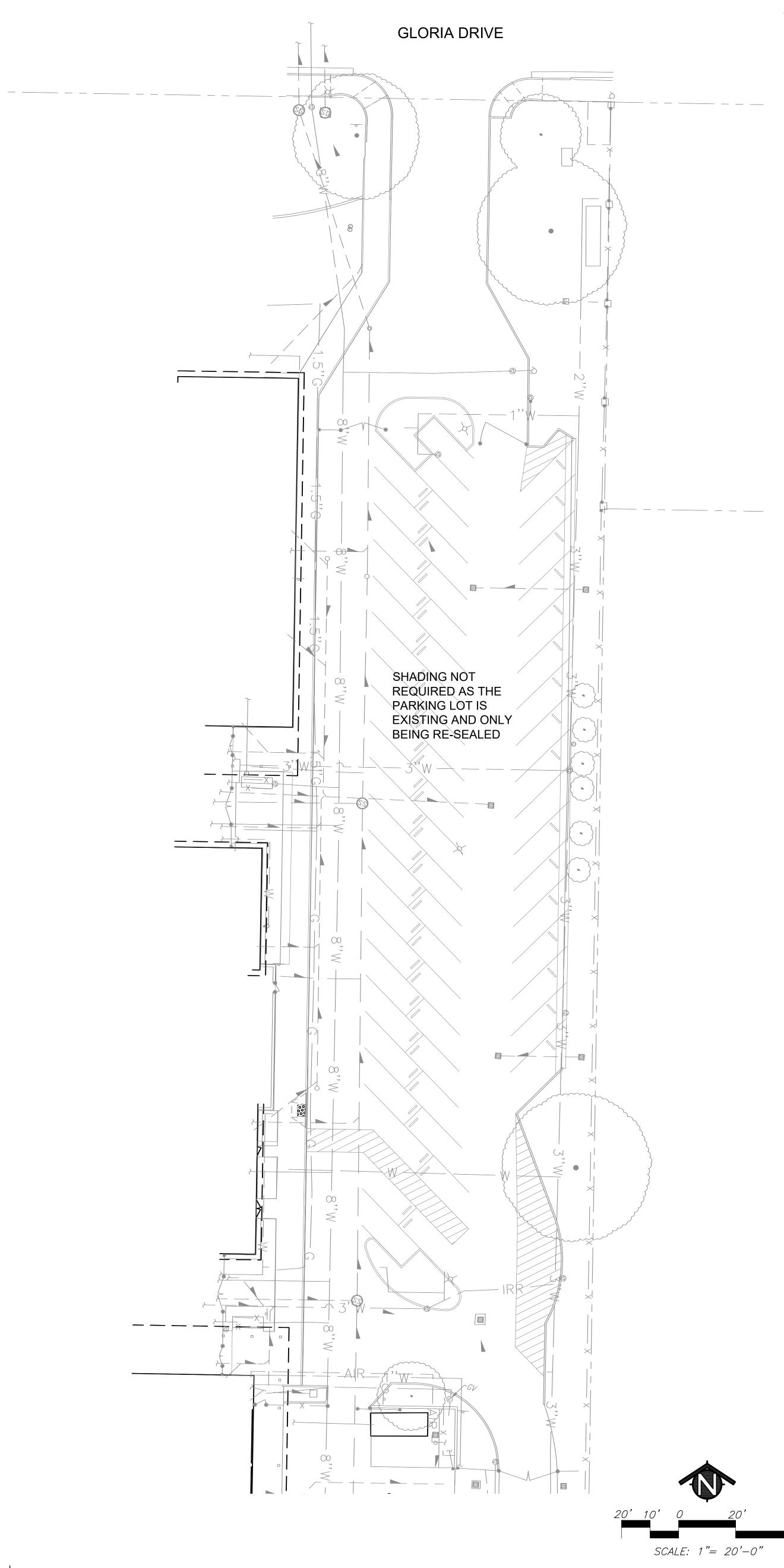
SEE SHEET L1.2 FOR LEGEND AND NOTES

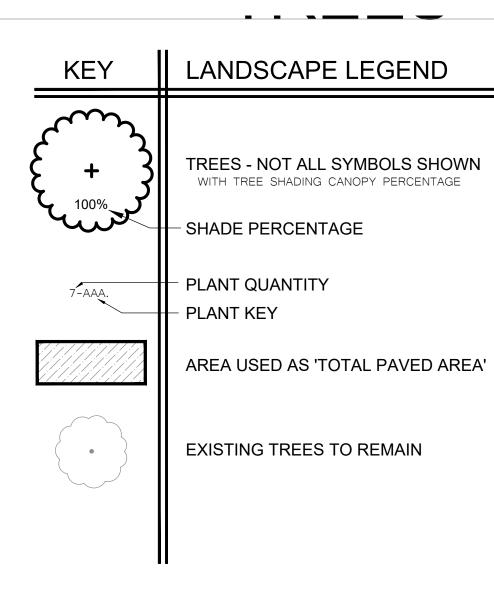




*40'* 







### TREE MATERIAL LIST

SIZE	QTY.	KEY	BOTANICAL NAME COMMON NAME
			TREES:
24" BOX 24" BOX 24" BOX 24" BOX 24" BOX 24" BOX	10 10 9 10 11	ACE. LIR. PIS. ULM. ZEL.	ACER RUBRUM 'OCTOBER GLORY' RED MAPLE LIRIODENDRON TULIPIFERA TULIP TREE PISTCIA CHINENSIS 'KEITH DAVEY' CHINESE PISTACHE ULMUS WILSONIANA 'PROSPECTOR' PROSPECTOR ELM ZELKOVA SERRATA ZELKOVA

### GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR

IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED. 2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN

COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

3. QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.

4. PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.

5. SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

### ENVIRONMENTAL REQUIREMENTS:

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

### PROTECTION:

EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

EXISTING UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK. LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO SOD OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

### PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS

NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, SNOW COVERED, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

### SOIL TESTING/SOIL IMPROVEMENT:

SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

## SOIL PERCOLATION

EXCAVATE 10 PLANTING PITS IN RANDOM AREAS OF SITE. FILL EXCAVATED PLANTING PITS WITH WATER TO 1/2 DEPTH OF PIT. PITS SHOULD DRAIN WITHIN 4 HOURS. IF PLANTING PITS DO NOT DRAIN, NOTIFY INSPECTOR IMMEDIATELY. PLANTING SHALL NOT BE STARTED UNTIL OWNER'S REPRESENTATIVE HAS RESOLVED A METHOD TO REMEDY DRAINAGE ISSUE.

### PLANT MATERIAL STANDARDS

PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1-AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANSI Z60.1, DRAWINGS AND SPECIFICATIONS SHALL PREVAIL. PRUNE, THIN OUT AND SHAPE TREES IN ACCORDANCE WITH ANSI STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD. UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT, DO NOT CUT TREE LEADERS, AND REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.

## EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM

WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED, DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.

## STUDENT PARKING LOT SHADING (50% WITHIN 15 YEARS)

19,240 S.F.

100%

EXISTING

30-35'

1 (481) = 481 S.F. 20 (962) = 19,240 S.F. 29 (481) = 13,949 S.F.

14,430 S.F.

50%

## SUB-TOTALS

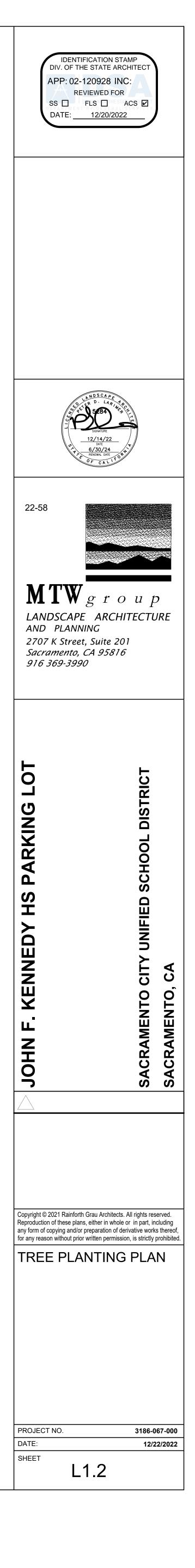
TREES

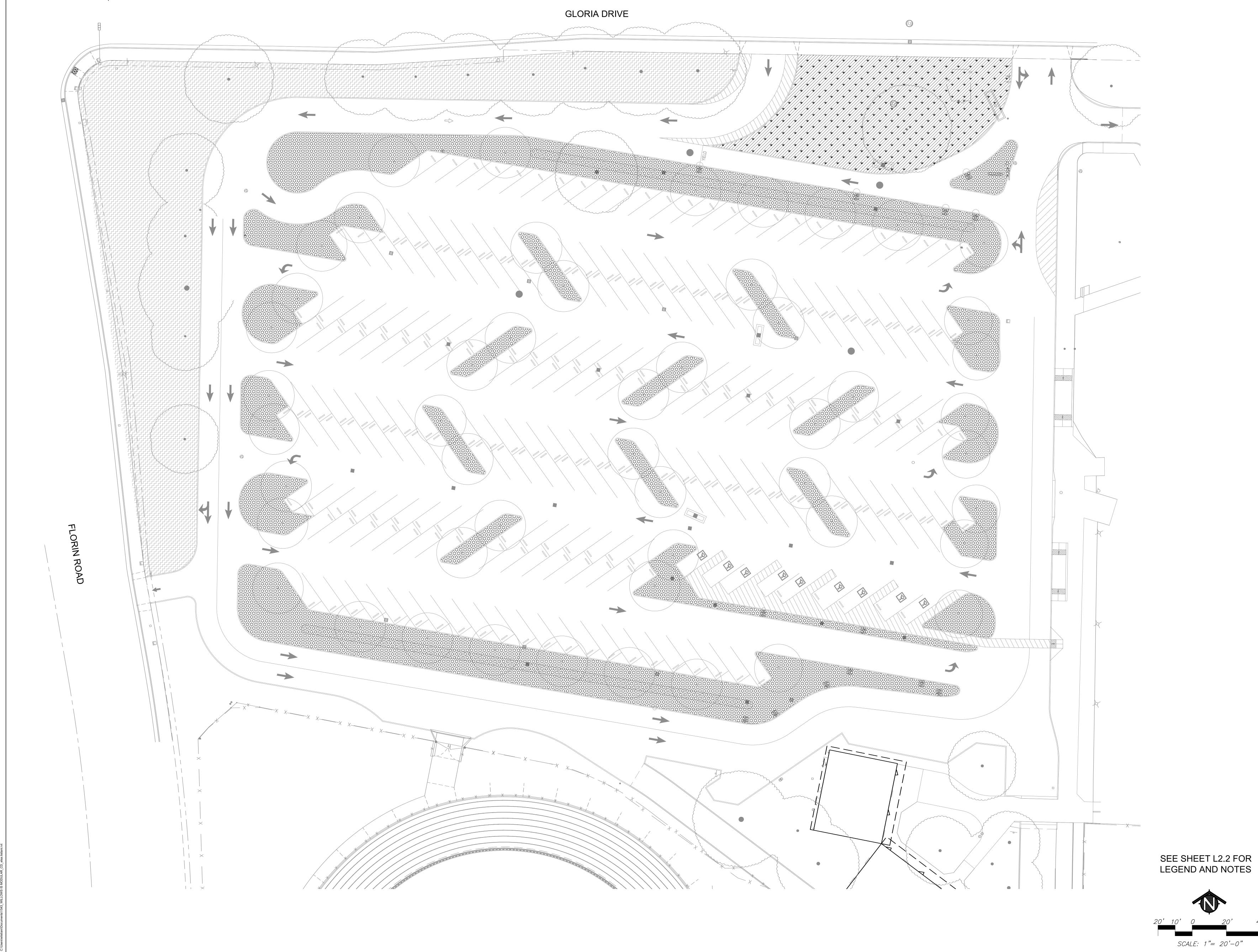
TOTAL PAVED AREA = 59,294 S.F.

TOTAL SHADED AREA = 33,670 S.F.

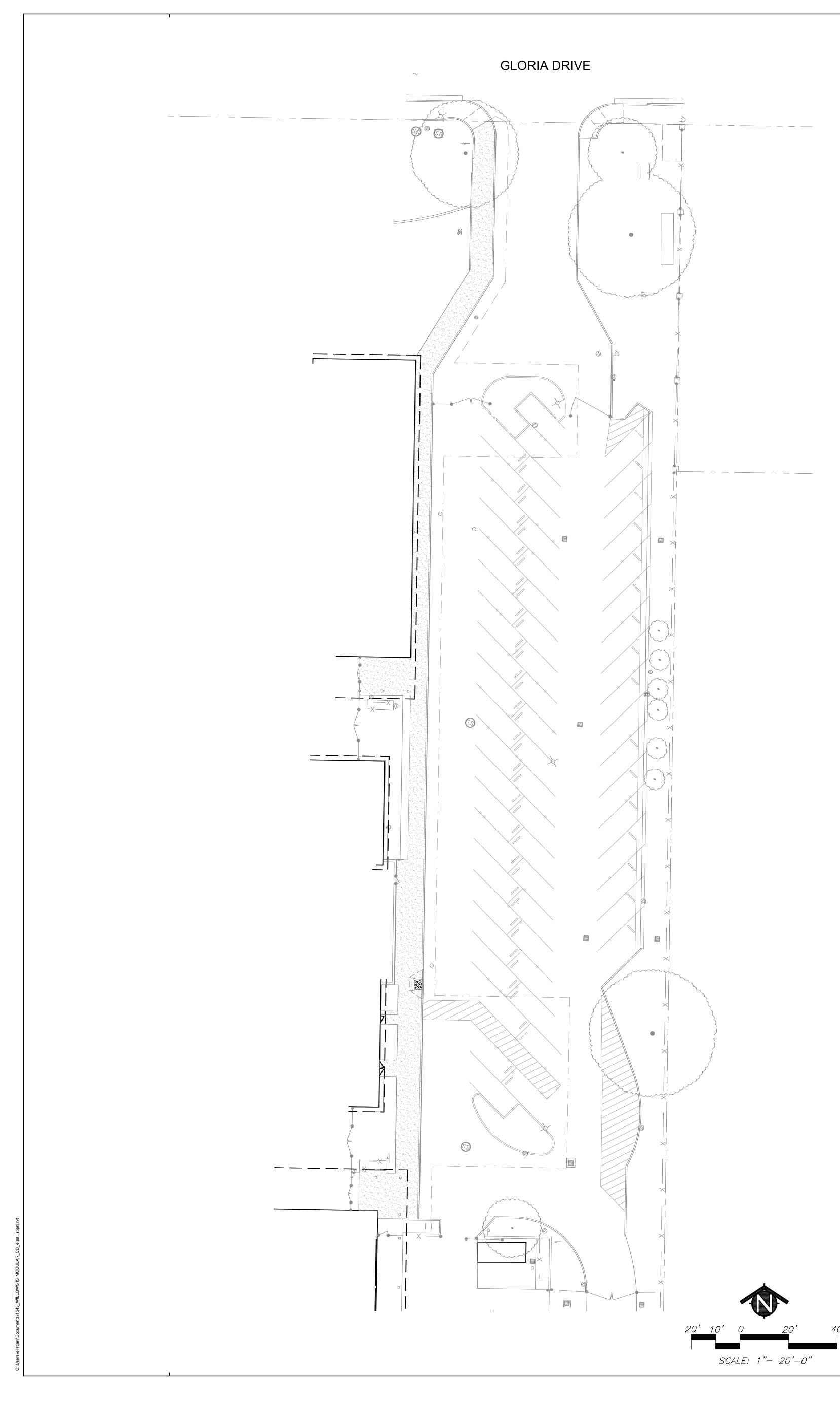
PERCENTAGE OF SHADE = 57.0%

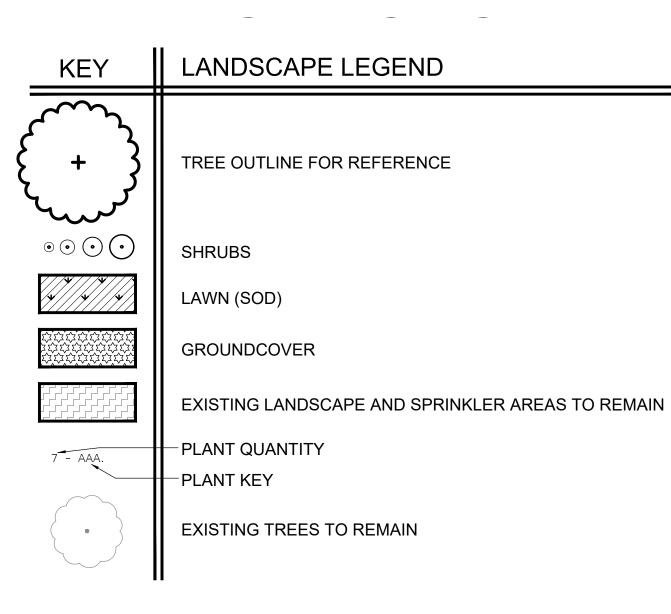
WATER USE MEDIUM MEDIUM LOW MEDIUM











## PLANT MATERIAL LIST

WATER USE	SIZE	QUANTITY	KEY	BOTANICAL NAME COMMON NAME
				SHRUBS:
LOW LOW LOW LOW LOW LOW LOW LOW LOW LOW	5 G.C. 1 G.C.		ABE. AGA. AGA.P. AZA.P. AZA.W. BAC. CAM. CEA.E. CEA.J. CEA.Y. CIS.D. CIS.P. CIS.H. COT.H. COT.P. DIE. ESC. EUO. HYP. JUN.B. JUN.C. JUN.N. JUN.R. JUN.S. LIG. MAH. NAN. PHO. PIT. POD. RHA.B. RHA.J. ROS. TRA. VIB. XYL.	ABELIA GRANDIFLORA 'SHERWOODII' GLOSSY ABELIA AGAPANTHUS AFRICANUS LILY-OF-THE-NILE AGAPANTHUS AFRICANUS 'PETER PAN' DWARF LILY-OF-THE-NILE AZALEA (PINK) PINK DECIDUOUS AZALEA AZALEA (WHITE) WHITE DECIDUOUS AZALEA BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH CAMELLIA SASANQUA 'YULETIDE' CAMELLIA CEANOTHUS 'EMILY BROWN' CEANOTHUS CEANOTHUS 'JOYCE COULTER' CEANOTHUS CEANOTHUS 'JOYCE COULTER' CEANOTHUS CISTUS 'DORIS HIBBERSON' PINK ROCKROSE CISTUS PURPUREUS ORCHID ROCKROSE CISTUS PURPUREUS ORCHID ROCKROSE CISTUS HYBRIDUS WHITE ROCKROSE COTONEASTER HORIZONTALIS ROCK COTONEASTER DIETES VEGETA FORTNIGHT LILY ESCALLONIA RUBRA 'NEWPORT DWARF' DWARF ESCALLONIA EUONYMUS MICROPHYLLA 'VARIEGATA' VARIEGATED EUONYMUS HYPERICUM MOSERANUM GOLD FLOWER JUNIPERUS SABINA 'BUFFALO' JUNIPER JUNIPERUS CHINENSIS 'COASTI AUREA' GOLD COAST JUNIPER JUNIPERUS CHINENSIS 'DOMSTI' AUREA' GOLD COAST JUNIPER JUNIPERUS CHINENSIS 'COASTI AUREA' JUNIPER JUNIPERUS CHINENSIS 'PHITZERANA GLAUCA' JUNIPER JUNIPERUS CHINENSIS 'PHITZERANA GLAUCA' JUNIPER JUNIPERUS CHINENSIS 'PHITZERANA GLAUCA' JUNIPER JUNIPERUS CHINENSIS 'COASTI AUREA' DWARF PROED JUNIPERUS CHINENSIS 'PHITZERANA GLAUCA' JUNIPER JUNIPERUS CHINENSIS 'PHITZERANA GLAUCA' JUNIPER JUNIPERUS CHINENSIS 'COASTI AUREA' DWARF HEAVENLY BAMBOO PHOTINIA FRASERI PHOTINIA PITTOSPORUM TOBIRA 'WHEELER'S DWARF' DWARF PITTOSPORUM PODOCARPUS GRACILOR 'HARBOR DWARF' DWARF PITTOSPORUM PODOCARPUS GRACILOR 'HERLER'S DWARF' DWARF PITTOSPORUM PODOCARPUS GRACILOR 'BALLERINA' DWARF INDIA HAWTHORN RHAPHIOLEPIS INDICA 'JACK EVANS' PINK INDIA HAWTHORN ROSMARINUS 'PROSTRATUS' DWARF ROSEMAR
				GROUNDCOVER:
LOW LOW	FROM FLATS 1 G.C.	9" O.C. 18" O.C.	GAZ. TRA.	GAZANIA 'MITSUWA YELLOW' TRAILING GAZANIA TRACHELOSPERMUM JASMINOIDES STAR JASMINE

## GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.

2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

3. QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.

4. PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE. 5. SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

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SOIL TESTING/SOIL IMPROVEMENT: SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

### SOIL PERCOLATION

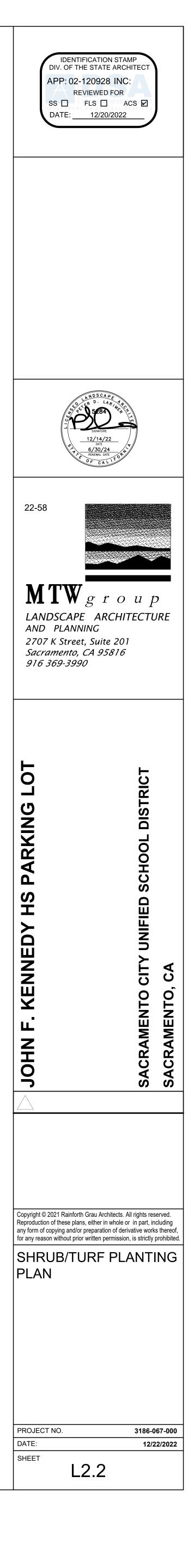
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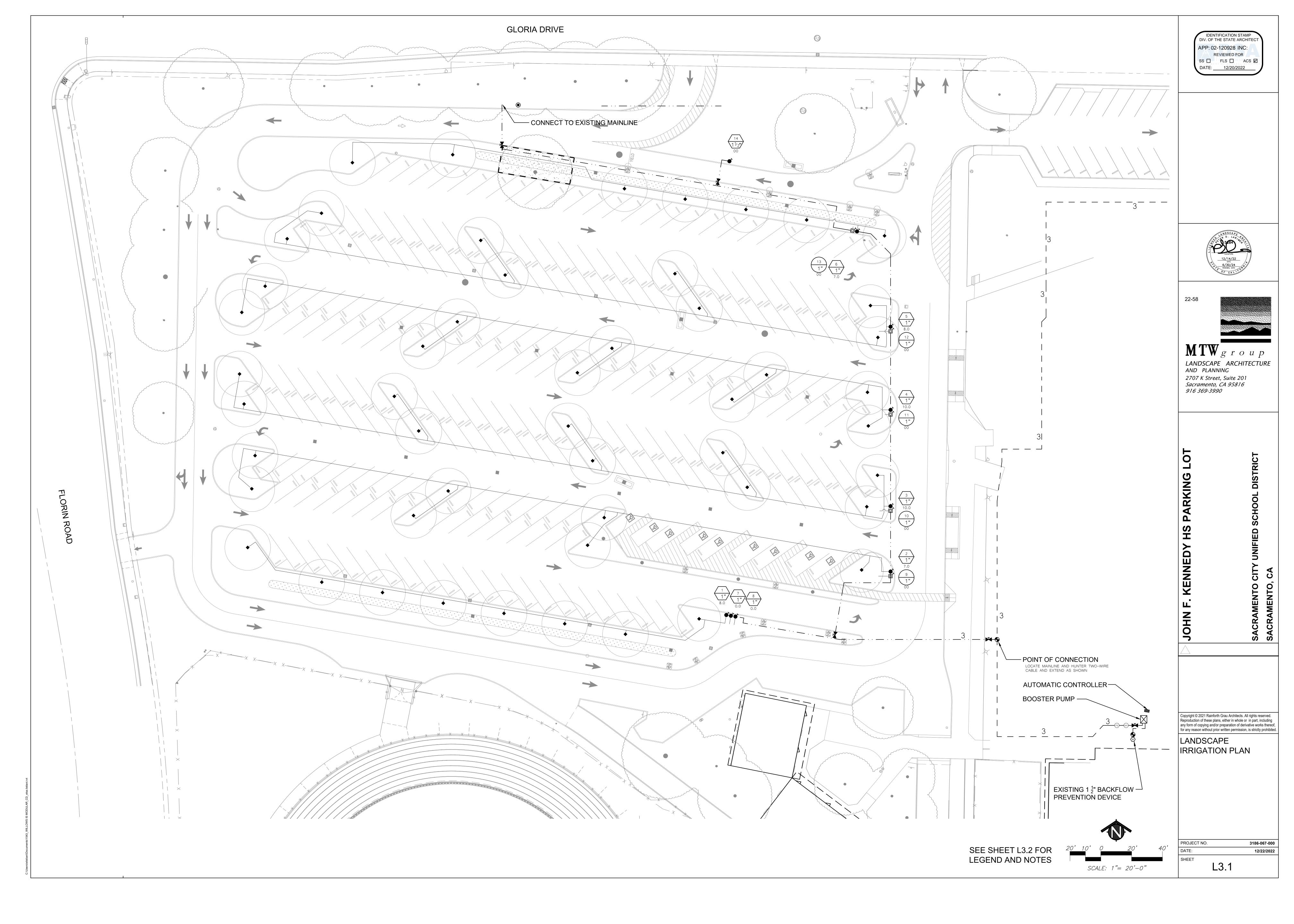
### PLANT MATERIAL STANDARDS

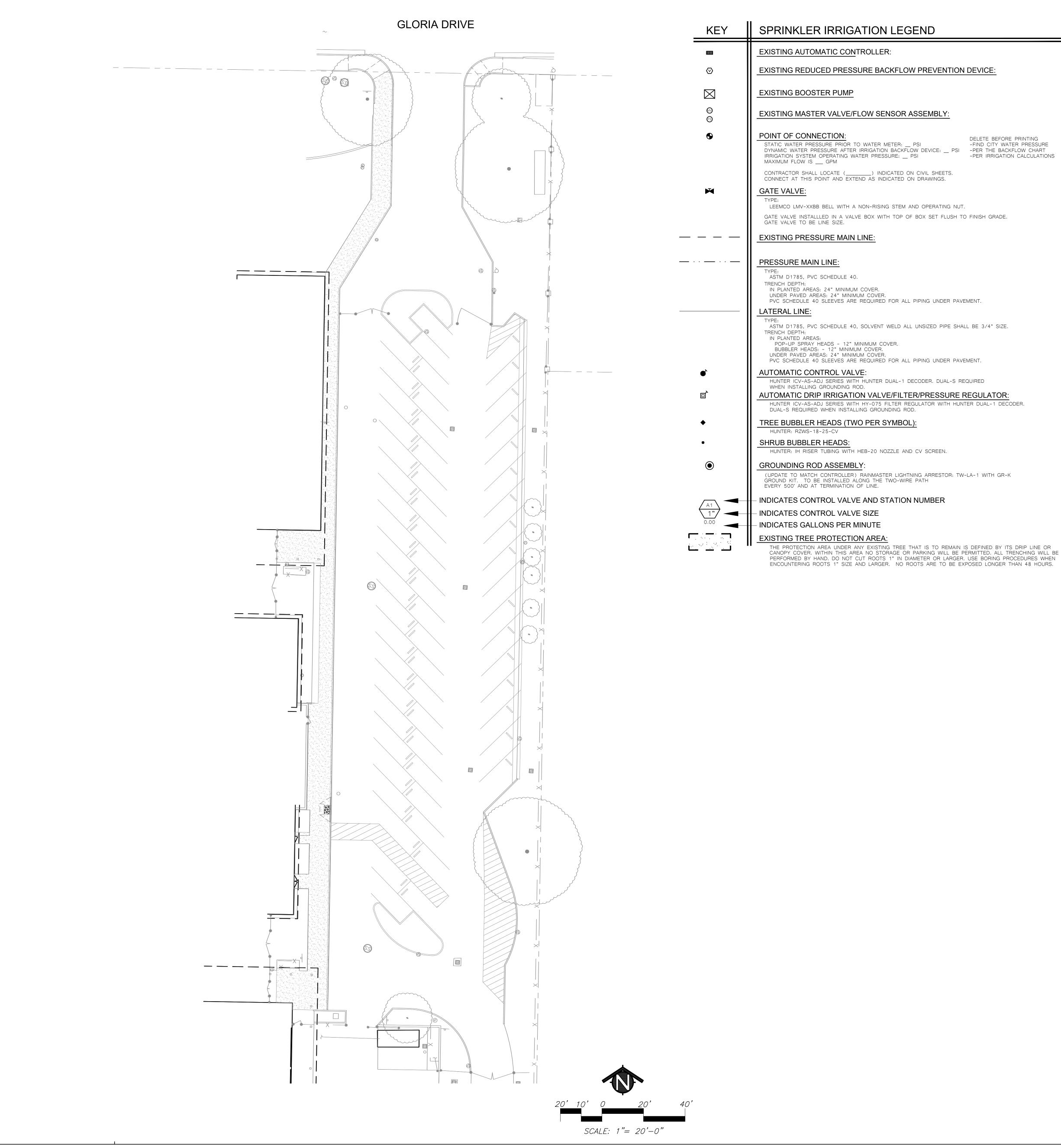
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### EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM

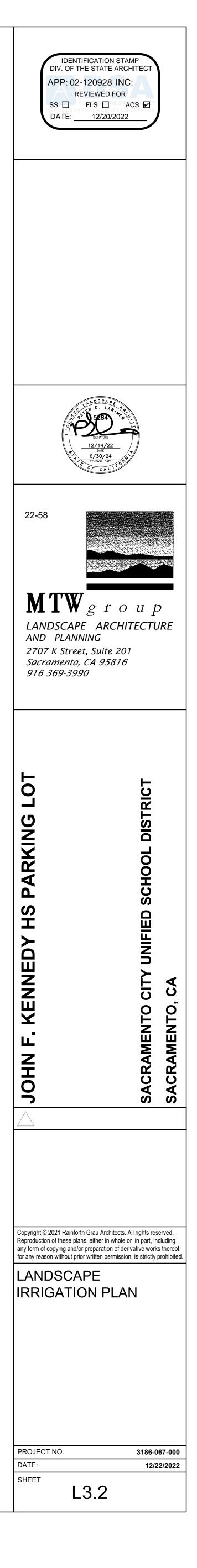
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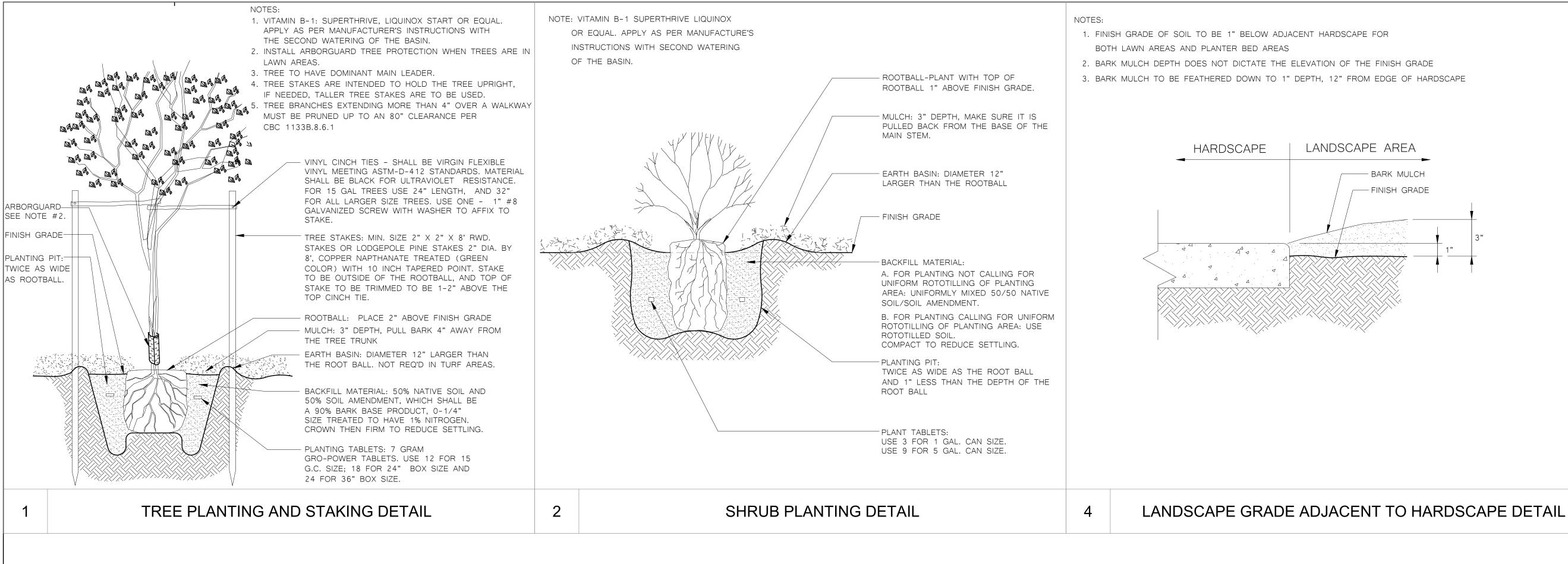




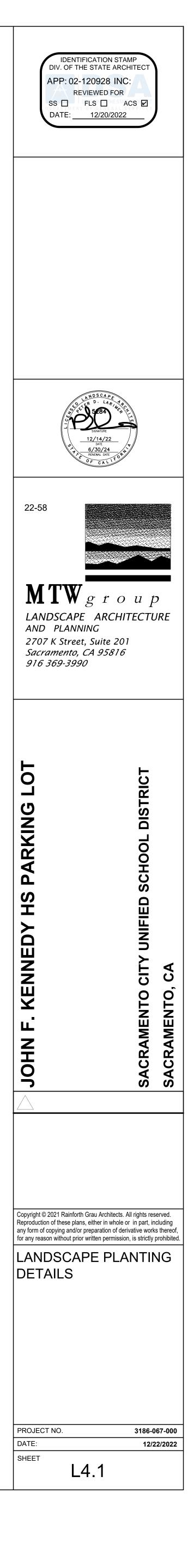


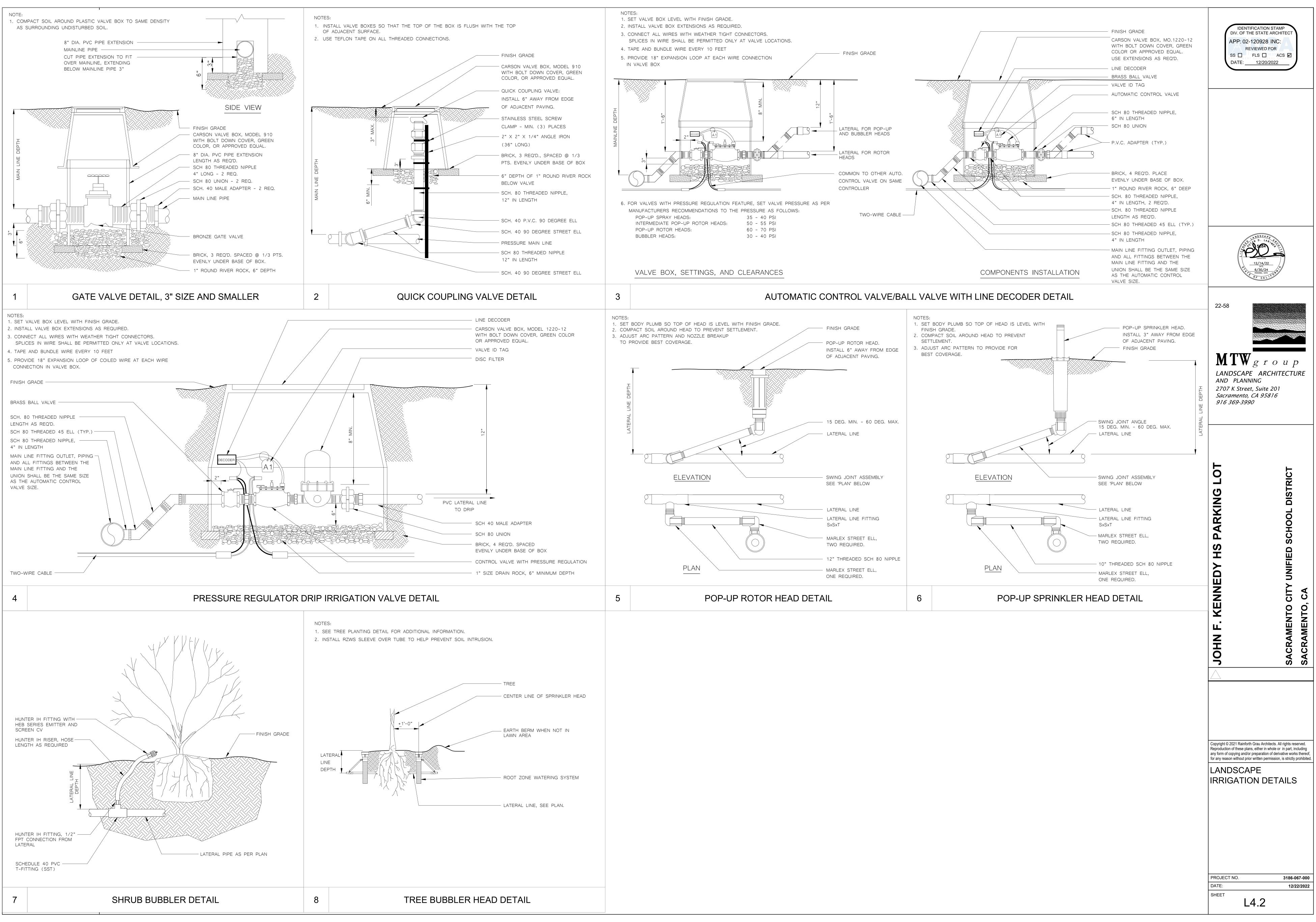
### SPRINKLER IRRIGATION NOTES 1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK. 2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR. 3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT. 4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY DELETE BEFORE PRINTING OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY. -FIND CITY WATER PRESSURE 5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE -PER IRRIGATION CALCULATIONS IMMEDIATELY. 6. TESTING: A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS: SYSTEMS WITH BOOSTER PUMP: MAIN LINE - AT 100 PSI FOR 4 HOURS. LATERAL LINES - AT 100 PSI FOR 2 HOURS. SYSTEMS WITH OUT BOOSTER PUMP: MAIN LINE - AT STATIC PSI FOR 4 HOURS. LATERAL LINES - AT STATIC PSI FOR 2 HOURS. B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE. 7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED. 8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE. 9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY. 10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER. 11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER. 12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE. 13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.1.



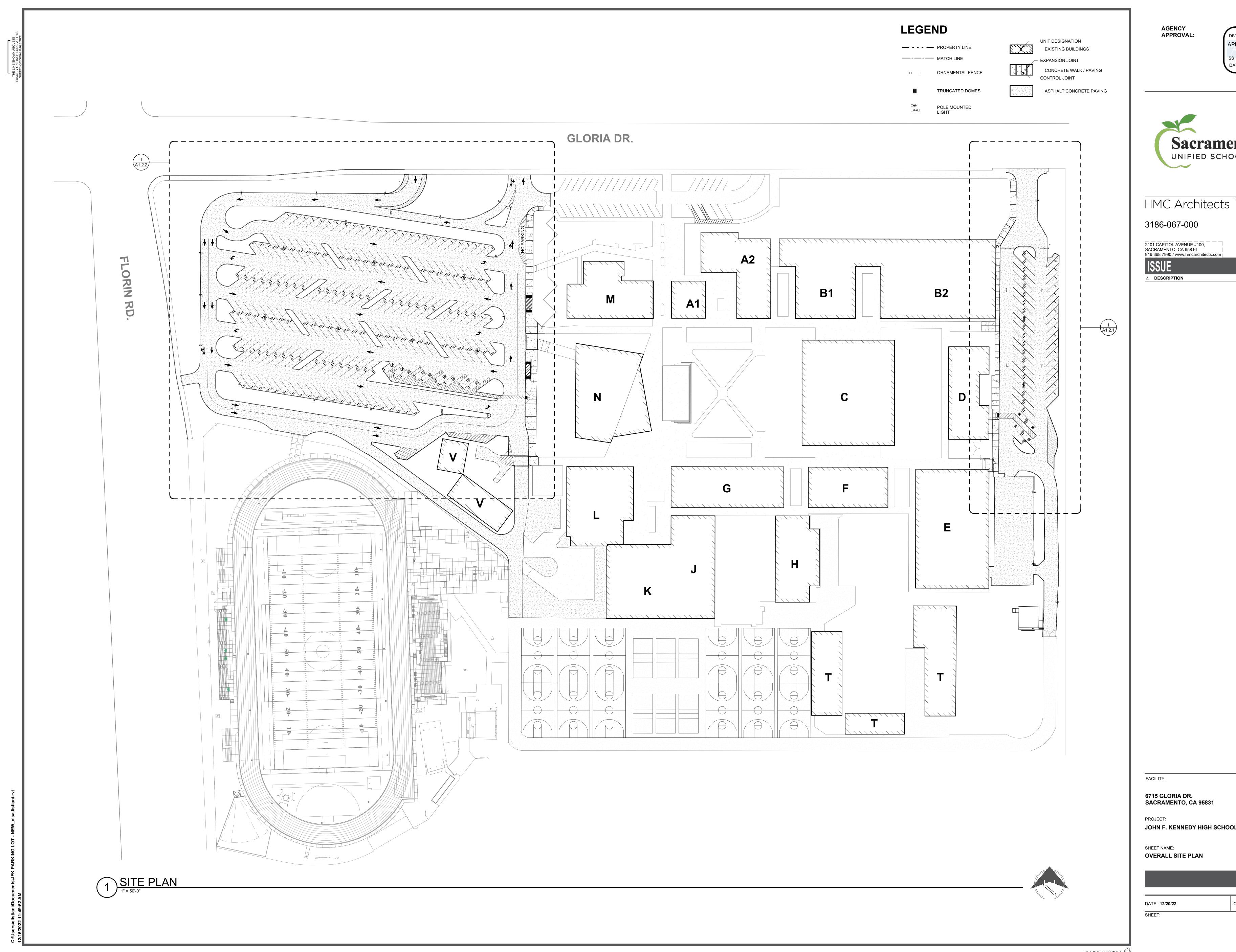


- BARK MULCH FINISH GRADE





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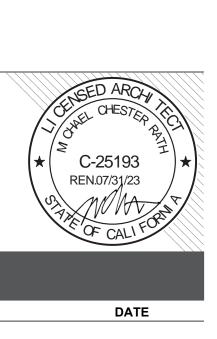




CLIENT PROJ NO:

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

Sacramento City UNIFIED SCHOOL DISTRICT



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

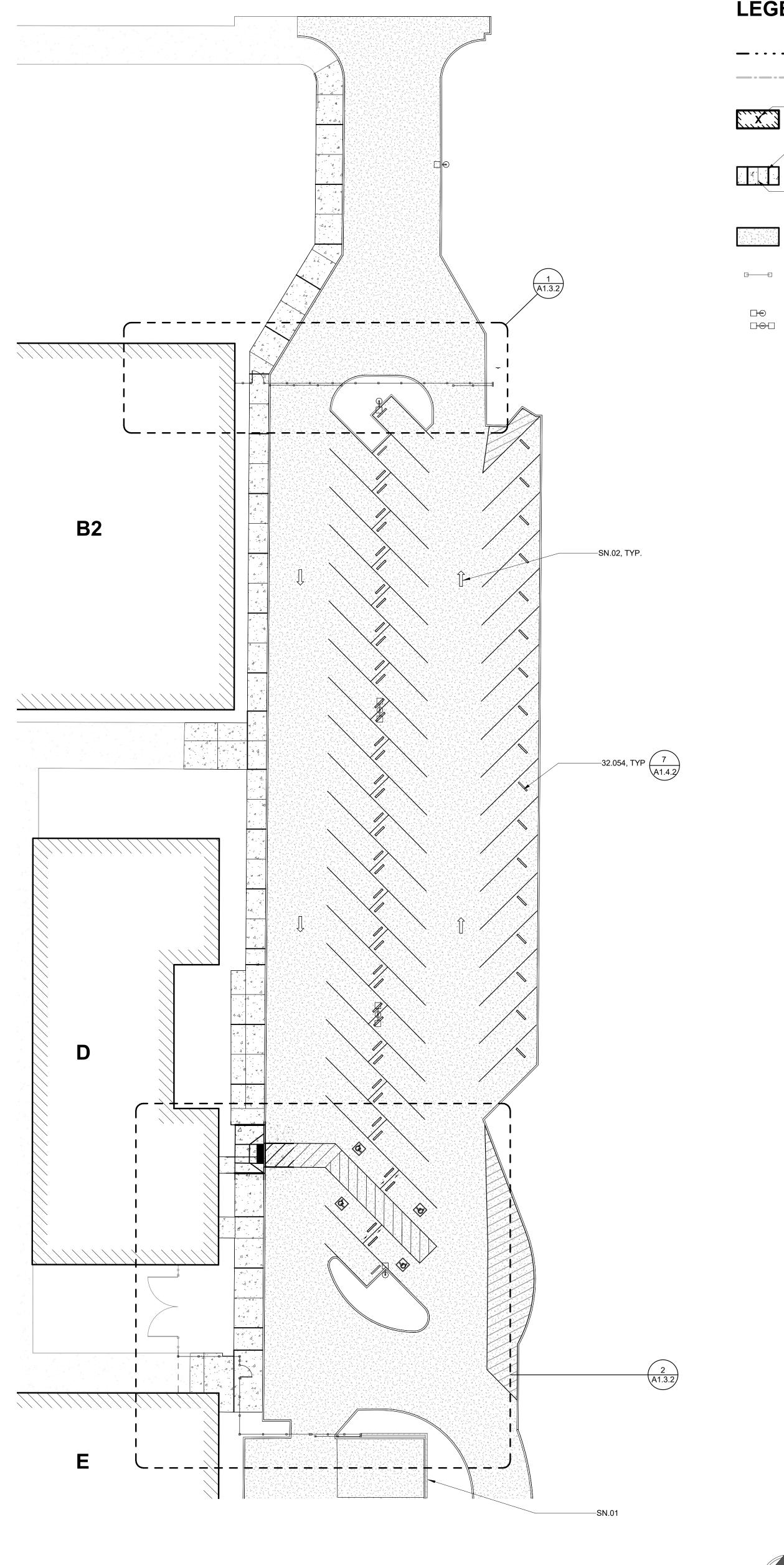
REVIEWED FOR SS 🔲 FLS 🗌 ACS 🗹

APP: 02-120928 INC:

DATE: <u>12/20/2022</u>



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(1) EAST PARKING LOT - ENLARGED IMPROVEMENT PLAN

# LEGEND

------ PROPERTY LINE MATCH LINE

> - UNIT DESIGNATION EXISTING BUILDINGS

> > EXPANSION JOINT (20'-0" MAX. SPACING) CONCRETE WALK / PAVING CONTROL JOINT (10'-0" MAX. SPACING)

ASPHALT CONCRETE PAVING

ORNAMENTAL FENCE

POLE MOUNTED LIGHT

AGENCY APPROVAL:



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-120928 INC: REVIEWED FOR SS 🔲 FLS 🗌 ACS 🗹 DATE: <u>12/20/2022</u>

3186-067-000

ISSUE  $\Delta$  **DESCRIPTION** 

**KEYNOTES** 

FACILITY:

PROJECT:

SHEET NAME:

DATE: **12/20/22** SHEET:



CLIENT PROJ NO:

# 6715 GLORIA DR. SACRAMENTO, CA 95831

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

EAST PARKING LOT - IMPROVEMENT PLAN

SN.01 (E) CMU WALL SN.02 DIRECTIONAL ARROW. PAINT IN WHITE U.O.N. SEE DETAIL

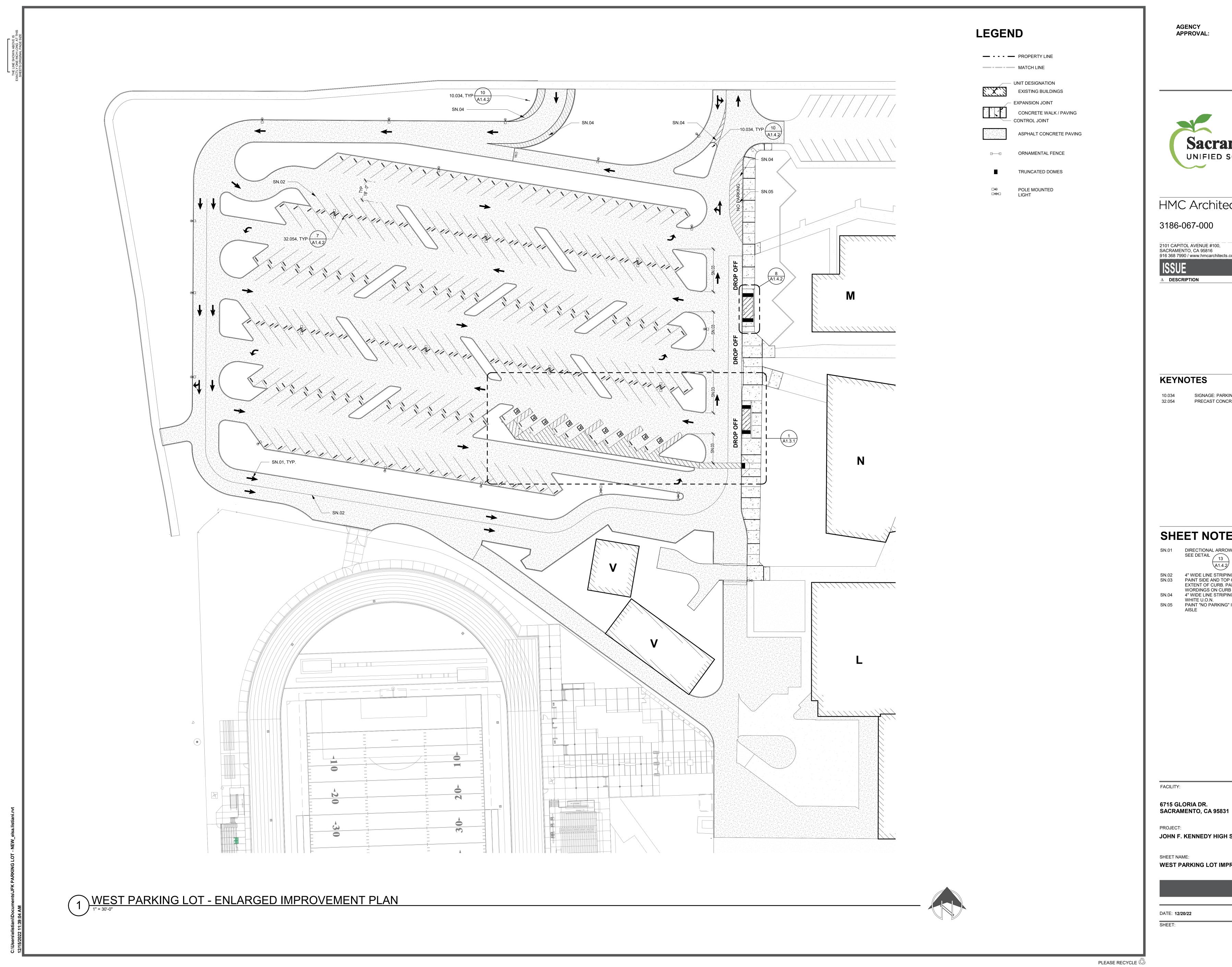


32.054 PRECAST CONCRETE BUMPER











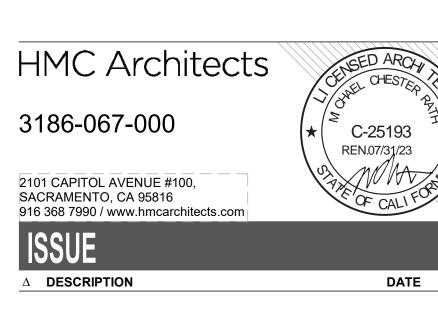
CLIENT PROJ NO:

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

WEST PARKING LOT IMPROVEMENT PLAN

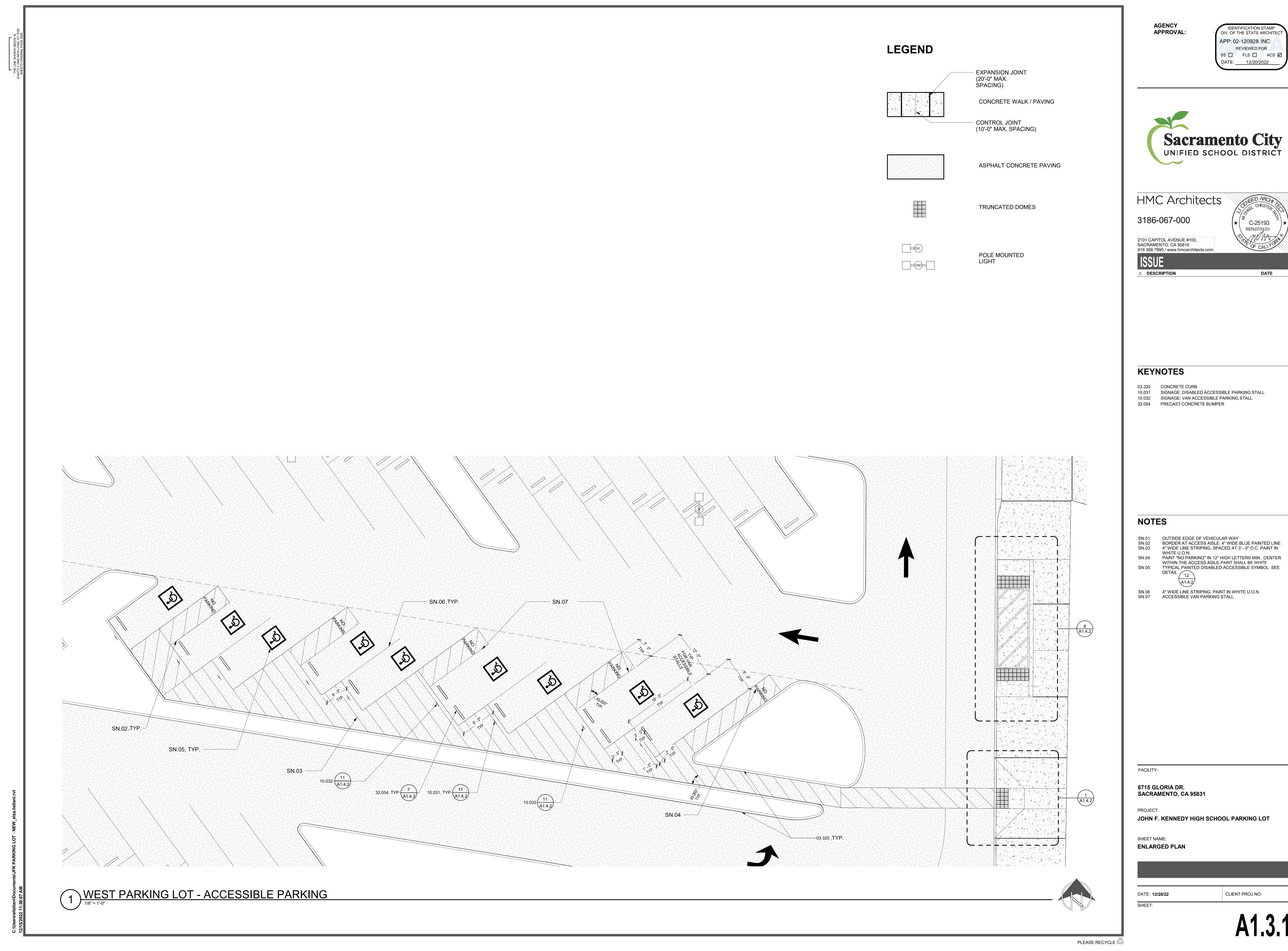
SHEET NOTES SN.01 DIRECTIONAL ARROW. PAINT IN WHITE U.O.N. SEE DETAIL A1.4.2/ SN.024" WIDE LINE STRIPING. PAINT IN WHITE U.O.NSN.03PAINT SIDE AND TOP OF CURB RED, FOR THE ENTIRE EXTENT OF CURB. PAINT "FIRE LANE - NO PARKING" WORDINGS ON CURB 4" WIDE LINE STRIPING SPACED AT 3' - 0" O.C. PAINT IN WHITE U.O.N. SN.05 PAINT "NO PARKING" IN WHITE LETTERING, CENTERED IN AISLE

10.034 SIGNAGE: PARKING LOT ENTRANCE PRECAST CONCRETE BUMPER

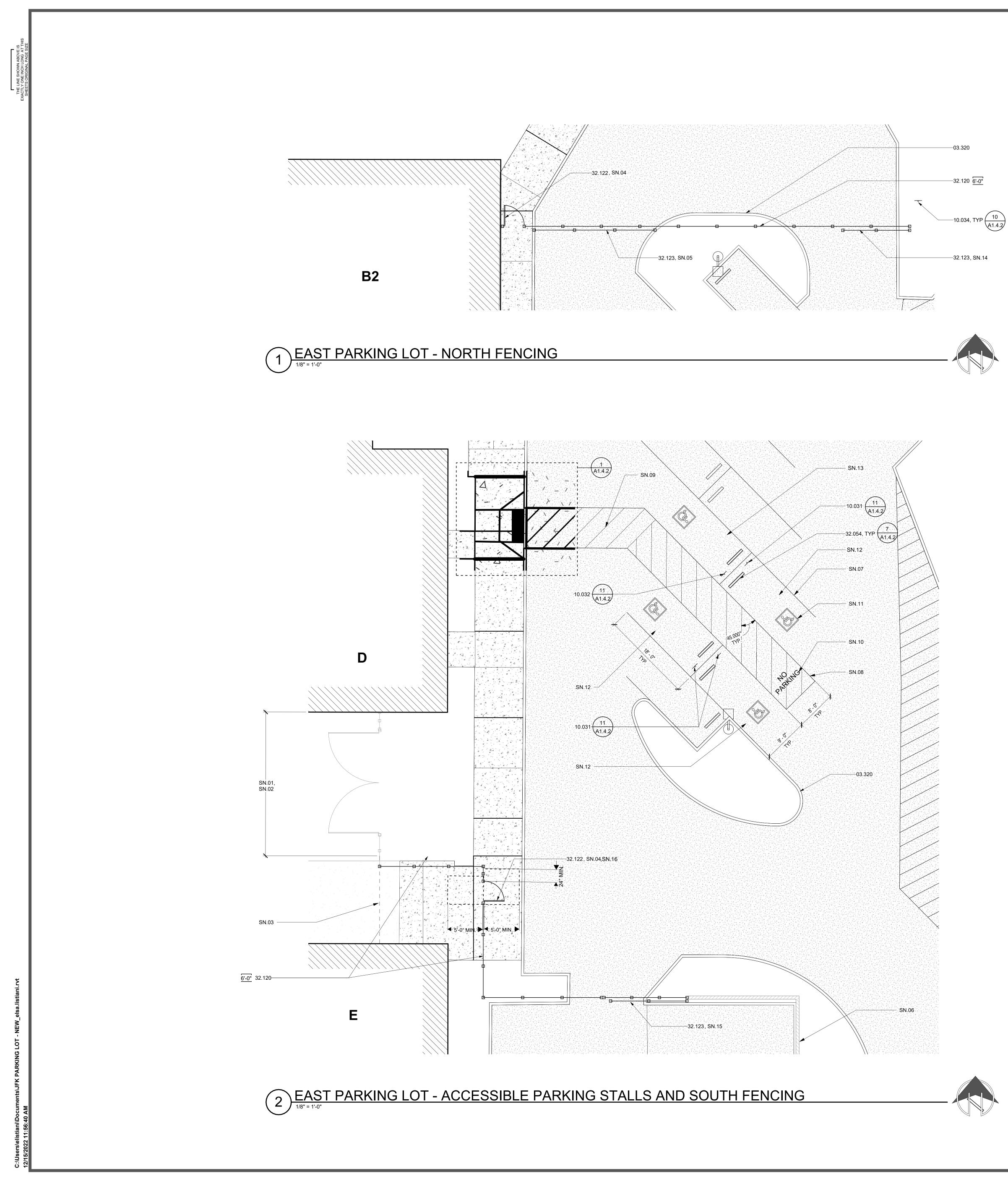












AGENCY APPROVAL:

# LEGEND

Χ'



 UNIT DESIGNATION

EXISTING BUILDINGS

EXPANSION JOINT
 (20'-0" MAX. SPACING)

CONCRETE WALK / PAVING

- CONTROL JOINT (10'-0" MAX. SPACING)

ASPHALT CONCRETE PAVING

ORNAMENTAL FENCE

CMU WALL

FENCE OR WALL HEIGHT

TRUNCATED DOMES

POLE MOUNTED LIGHT



3186-067-000

ISSUE

 $\Delta$  **DESCRIPTION** 

KEYN	
03.320	CON
10.031	SIGN
10.032	SIGN
10.034	SIGN
32.054	PRE
22 120	

32.122

(E) ORNAMENTAL METAL FENCE (E) ORNAMENTAL METAL DOUBLE GATE RÉMOVE (E) FENCING 4'-0" WIDE AND 6'-0" HIGH ORNAMENTAL METAL SINGLE GATE WITH KICK PLATE. SEE DETAIL 🦯 \A1.4.1/ ROLLING GATE. GATE WIDTH TO BE AS WIDE AS DRIVEWAY WIDTH. VERIFY DRIVEWAY WIDTH IN FIELD. SEE DETAIL / \A1.4.1/ (E) CMU WALL À" WIDE LINE STRIPING. PAINT IN WHITE U.O.N. BORDER AT ACCESS AISLE: 4" WIDE BLUE PAINTED LINE 4" WIDE LINE STRIPING, SPACED AT 3' - 0" O.C. PAINT IN WHITE U.O.N. PAINT THE WORDS "NO PARKING" IN 12" HIGH LETTERS MIN. CENTER "NO PARKING" WITHIN THE ACCESS AISLE TYPICAL PAINTED DISABLED ACCESSIBLE SYMBOL. SEE DETAIL 12 \A1.4.2 ACCESSIBLE PARKING STALL ACCESSIBLE VAN PARKING STALL (+/-) 17'-0" WIDE AND 6'-0" HIGH ORNAMENTAL METAL ROLLING GATE. GATE WIDTH TO BE AS WIDE AS DRIVEWAY WIDTH. VERIFY DRIVEWAY WIDTH IN FIELD. SEE DETAIL \A1.4.1/ DRIVEWAY WIDTH. VERIFY DRIVEWAY WIDTH IN FIELD. SEE DETAIL \A1.4.1/

SN.01 SN.02 SN.03 SN.04 SN.05 (+/-) 20'-0" WIDE AND 6'-0" HIGH ORNAMENTAL METAL SN.06 SN.07 SN.08 SN.09 SN.10 SN.11 SN.12 SN.13 SN.14 SN.15 (+/-) 14'-0" WIDE AND 6'-0" HIGH ORNAMENTAL METAL ROLLING GATE. GATE WIDTH TO BE AS WIDE AS SN.16 GATE LANDING SHALL BE 1.9% MAX. BOTH DIRECTIONS

6715 GLORIA DR. SACRAMENTO, CA 95831

FACILITY:

PROJECT:

SHEET NAME: ENLARGED PLANS

CLIENT PROJ NO: DATE: **12/20/22** SHEET:

PLEASE RECYCLE



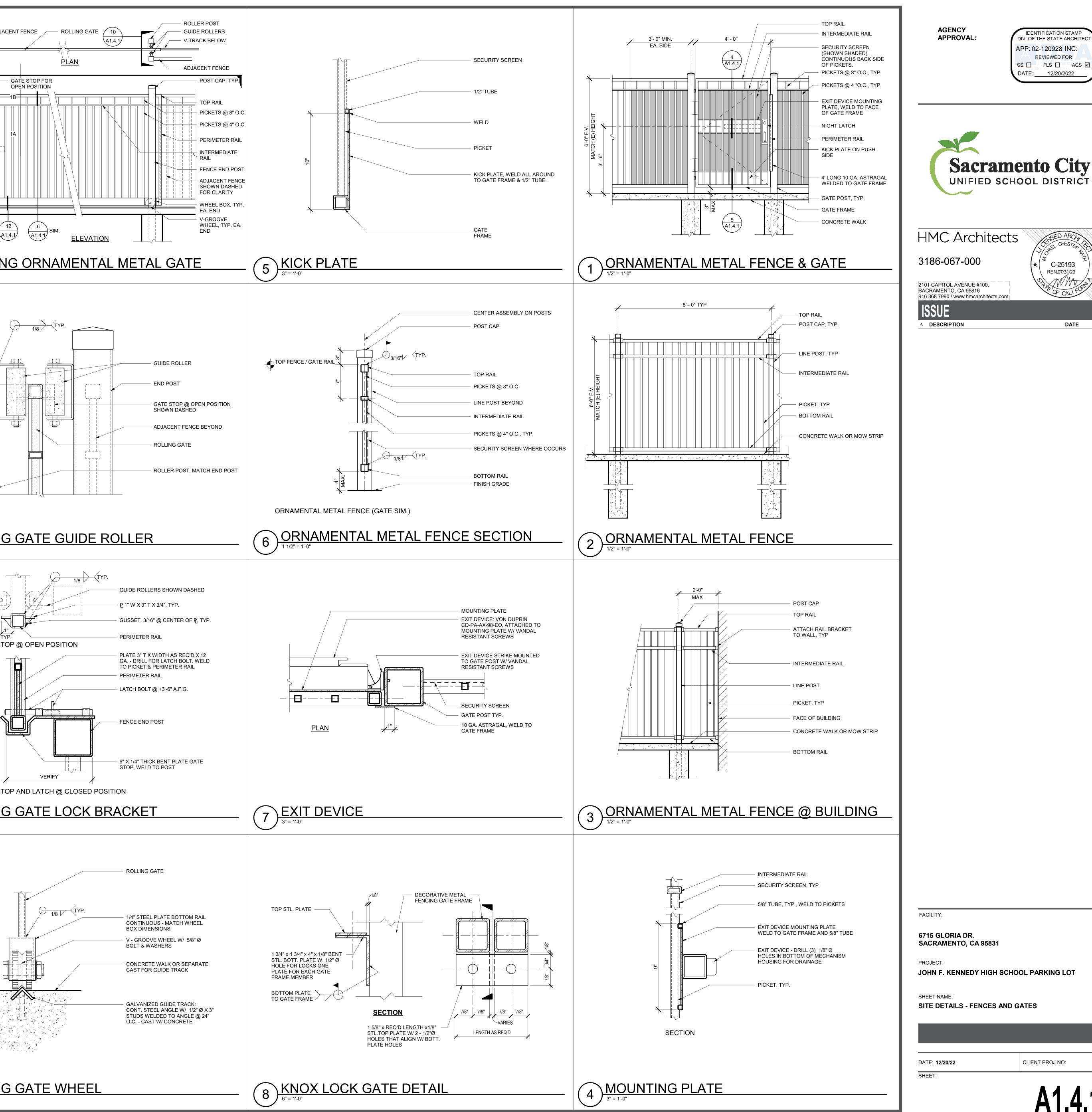
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### **TES** NCRETE CURB NAGE: DISABLED ACCESSIBLE PARKING STALL NAGE: VAN ACCESSIBLE PARKING STALL NAGE: PARKING LOT ENTRANCE ECAST CONCRETE BUMPER 32.120 ORNAMENTAL METAL FENCE ORNAMENTAL METAL GATE 32.123 ORNAMENTAL METAL ROLLING GATE

## SHEET NOTES

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

SIH	— ADJAC
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE	1       1         1
	The second secon
	3" = 1'-0"
	A. GATE STO TO TO TO TO TO TO TO TO TO
C:\Users\elistiani\Documents\JFK PARKING LOT - NEW_elsa.listiani.rvt 12/15/2022 11:39:09 AM	(12) ROLLING 3" = 1'-0"
C:\L 12/1	



PLEASE RECYCLE

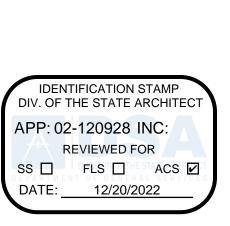


CLIENT PROJ NO:

JOHN F. KENNEDY HIGH SCHOOL PARKING LOT

SITE DETAILS - FENCES AND GATES



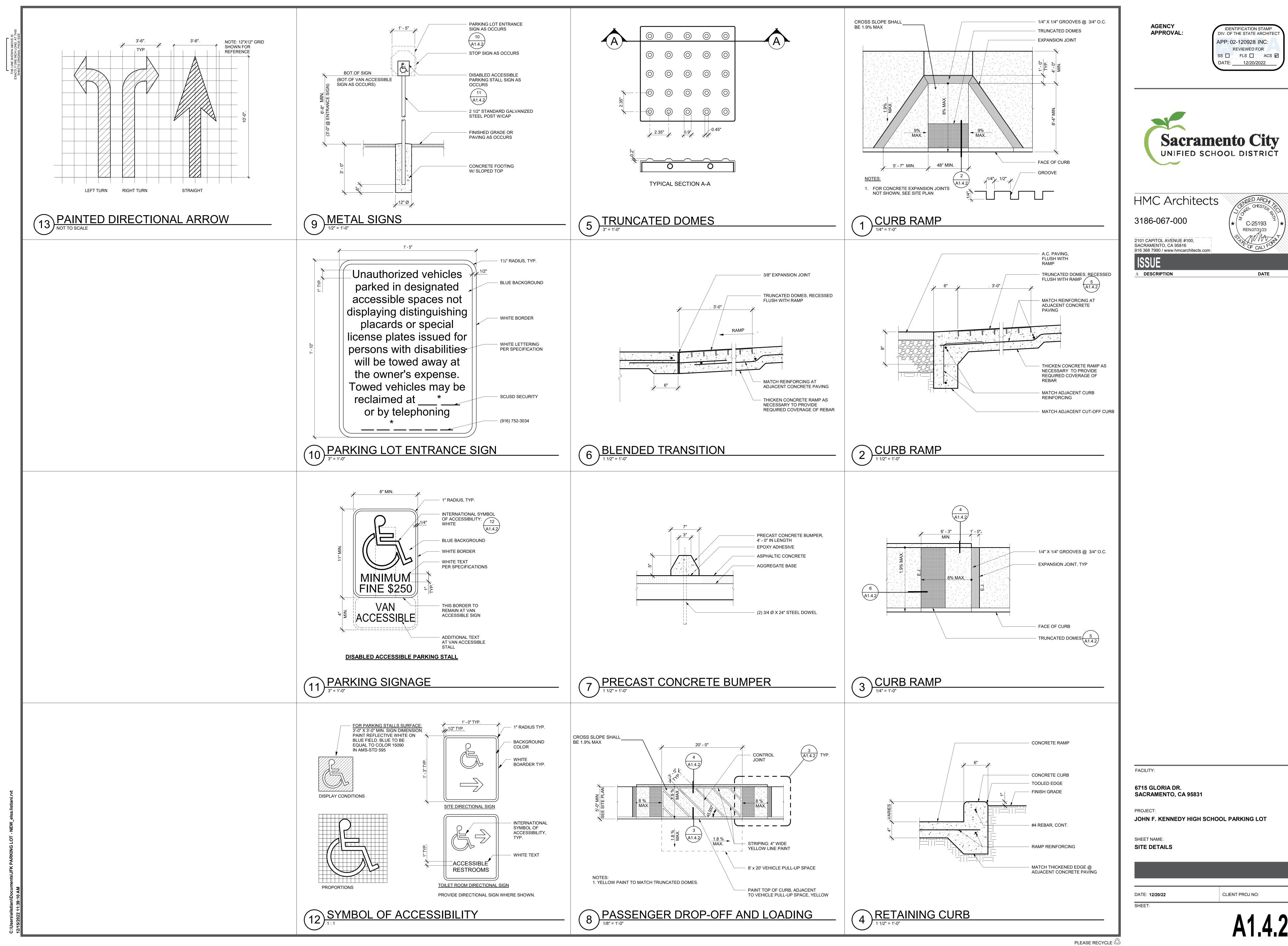


CHEST

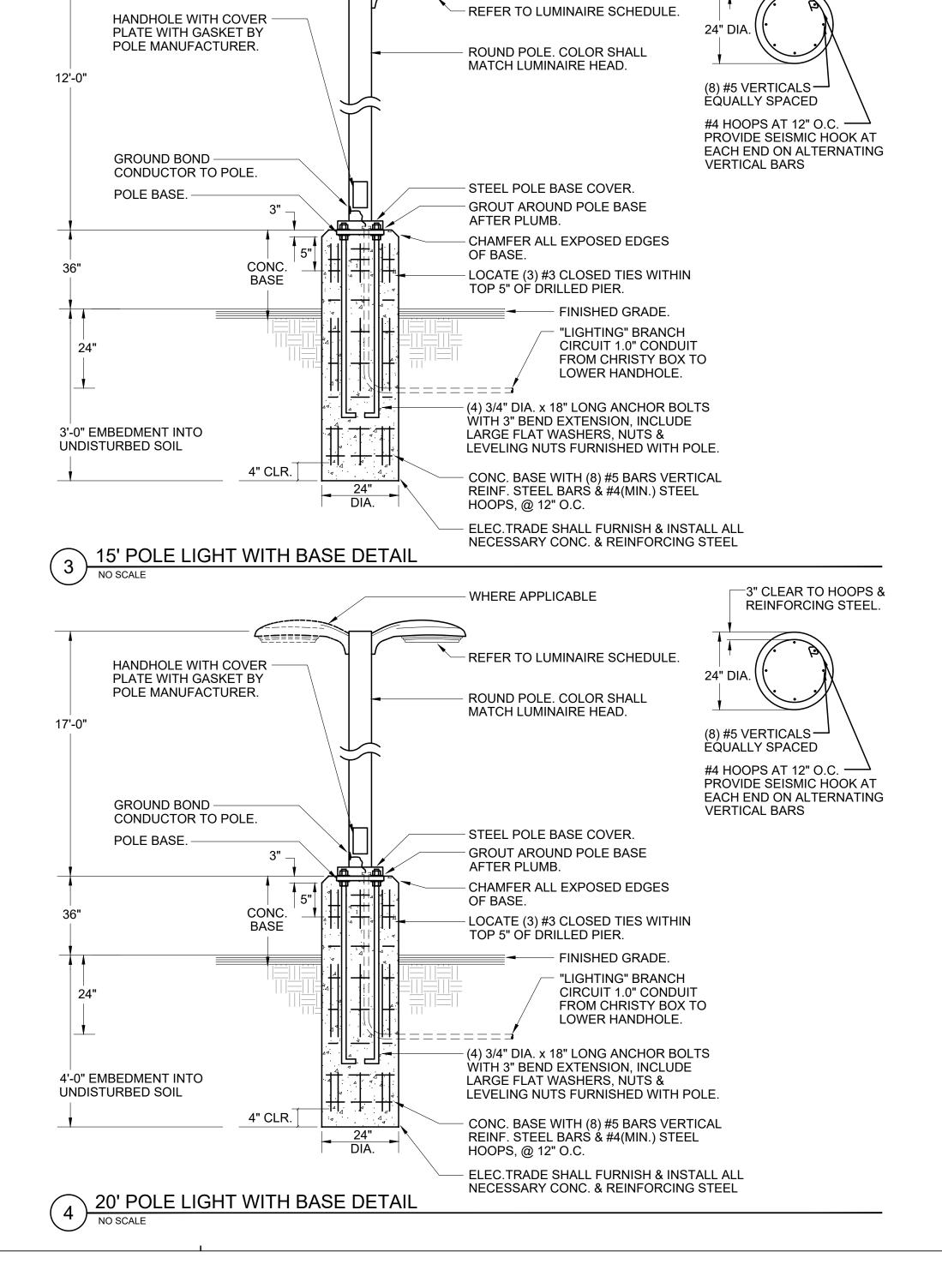
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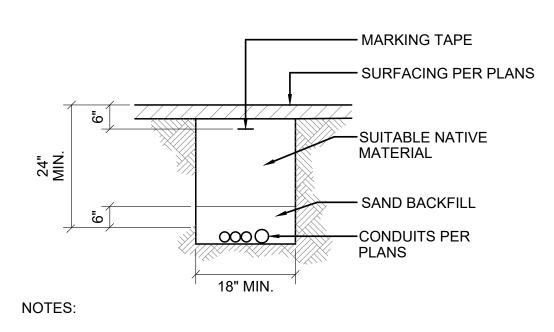


GARDCC A1 P26-196L-11 GARDCO <u>A2</u> P26-196L-16 A4 GARDCO P26-196L-167 GARDCO

-3" CLEAR TO HOOPS &

REINFORCING STEEL.

LUMINAIRE SCHEDULE						
MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	LAMP	VOLTS	WATTS	REMARKS
150-NW-G2-AR-3-UNV-DD-IMRI3-PCB-F1-BK	AREA POLE LIGHT; 5940 LUMENS; 80 CRI, 4000K CCT; 0-10V DIMMING	POLE	LED	UNV	51	MOUNTED +15' ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE HEAD. PROVIDED WITH ON-BOARD MOTION SENSOR AND PHOTOCONTROL.
75-NW-G2-AR-3-UNV-DD-IMRI3-PCB-F1-BK	AREA POLE LIGHT; 8403 LUMENS; 80 CRI, 4000K CCT; 0-10V DIMMING; BUG RATING: B3-U0-G3	POLE	LED	UNV	75	MOUNTED + 20' ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE HEAD. PROVIDED WITH ON-BOARD MOTION SENSOR AND PHOTOCONTROL.
75-NW-G2-AR-5-UNV-DD-IMRI3-PCB-F1-BK	AREA POLE LIGHT; 8418 LUMENS; 80 CRI, 4000K CCT; 0-10V DIMMING; BUG RATING: B3-U0-G2	POLE	LED	UNV	75	MOUNTED + 20' ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE HEAD. PROVIDED WITH ON-BOARD MOTION SENSOR AND PHOTOCONTROL.



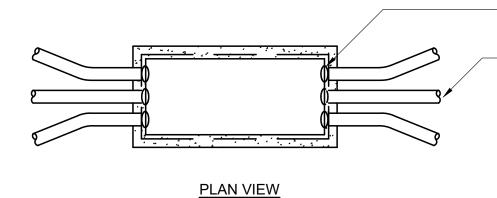
BOTTOM OF TRENCH SHALL BE SQUARE AND CLEAN. 2. REFER TO PLANS FOR QUANTITY AND SIZES OF CONDUITS. 3. NATIVE MATERIALS SHALL BE NATIVE TO THE PROJECT SITE, FREE OF WOOD, ORGANICS, AND OTHER DELETERIOUS SUBSTANCES. ROCKS

SHALL NOT BE GREATER THAN 3" INCHES. 4. SAND SHALL BE FINE GRANULAR MATERIAL, FREE OF ORGANIC MATTER, MICA, LOAM OR CLAY.

TRENCH DETAIL NO SCALE

PULLBOX INDEX							
TYPE	MFGR	INTERIOR DIM.	EXTENSION	LID	NOTES		
N09	CHRISTY	10 <u>1</u> " X 16 <u>3</u> "	12"	NOTE 1			
N16	CHRISTY	11 <sup>3</sup> / <sub>4</sub> " X 22 <sup>1</sup> / <sub>4</sub> "	12"	NOTE 1			
N30	CHRISTY	13 <u>1</u> " X 24 <u>1</u> "	12"	NOTE 1			
N36	CHRISTY	17 <sup>1</sup> / <sub>8</sub> " X 30 <sup>1</sup> / <sub>4</sub> "	12"	NOTE 1			
B1017	CHRISTY	11 <sup>7</sup> / <sub>8</sub> " X 18 <sup>1</sup> / <sub>2</sub> "	12"	NOTE 2			
B1324	CHRISTY	14 <u>4</u> " X 25"	12"	NOTE 2			
NOTES:	1	1					

1) PROVIDE CONCRETE LID AT ASPHALT OR CONCRETE WALKWAY. PROVIDE GALVANIZED STEEL CHECKER PLATE IN NON-VEHICULAR AREAS. 2) PROVIDE GALVANIZED STEEL CHECKER PLATE H-20 TRAFFIC RATED LID IN VEHICULAR TRAFFIC AREAS.



TYPICAL END BELL SEAL CONDUCTORS. FINISED GRADE 24 MIN 95% COMPACTED SOIL.-30" DEEP BY 8" DIAMETER DRY WELL FILLED WITH GRAVEL

GROUT ALL DUCTS FLUSH TO INSIDE WALL OF PULL BOX.

CONDUIT MUST ENTER FROM ENDS OF PULL BOX. MINIMUM 10' STRAIGHT LENGTH OF CONDUIT REQUIRED BEFORE ENTRANCE OF PULL BOX. PLACE CONDUITS ON OPPOSITE SIDES OF PULL BOX IN LINE WITH EACH OTHER.

CONCRETE LID WITH HOLD DOWN BOLTS. LABEL LID "LIGHTING" AS APPLICABLE WHEN PULL BOXES ARE LOCATED IN PARKING LOTS OR AREAS SUBJECT TO VEHICULAR TRAFFIC, PROVIDE VAULT STYLE PULL BOX WITH H20 LOADING COVER.

TOP FLUSH IN FINISHED AREAS AND 1" ABOVE FINISHED GRADE IN LANDSCAPED AREAS. - EXTENSIONS AS REQUIRED, (1) MINIMUM

- 22 1/2 DEG. SWEEP. CONDUIT WITH 24" MINIMUM BURIAL DEPTH

- 6" GRAVEL BASE, SHALL EXTEND 8" BEYOND BOX, ALL AROUND - 1-1/2" THICK POURED

CONCRETE SLAB. PROVIDE (4) SPACED DRAIN HOLES TO DRY WELL

## NOTES:

1. PROVIDE CONCRETE LID AT ASPHALT OR CONCRETE WALKWAY. PROVIDE GALVANIZED STEEL CHECKER PLATE LID AT ALL OTHER NON-VEHICULAR AREAS.

2. AT VEHICULAR TRAFFIC AREAS, PULLBOXES, EXTENSIONS AND LIDS SHALL BE TRAFFIC (H20) RATED. SLAB SHALL BE REINFORCED CONCRETE.

SIDE VIEW

### NO SCALE

		1	
1PH, 3PH 1P, 2P, 3P 3W, 4W (D) (E) (ER) (N) (R)	1 PHASE, 3 PHASE 1 POLE, 2 POLE, 3 POLE 3 WIRE, 4 WIRE DEMO, DEMOLISH EXISTING EXISTING RELOCATED NEW RELOCATE	MCA MCB MCC MLO MOCP MT	-M- MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN LUGS ONLY MAXIMUM OVER-CURRENT PROTECTION EMPTY CONDUIT W/ PULL-LINE
A, AMPS AC AF AFF AIC AL, ALUM ATS AT	-A- AMPERES ALTERNATING CURRENT FRAME RATING IN AMPERES ABOVE FINISHED FLOOR AMPERES INTERRUPTING CAPACITY ALUMINUM AUTO TRANSFER SWITCH TRIP RATING IN AMPERES	NC NCTC NEC NEMA NIES NL NO	-N- NORMALLY CLOSED NURSE CALL TERMINAL CABINET NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION NOT INCLUDED IN ELECTRICAL SCOPE NIGHT LIGHT NORMALLY OPEN
AWG	AMERICAN WIRE GAUGE -B- BUILDING TELECOM ROOM	NTS OCP OFCI	NOT TO SCALE -O- OVER-CURRENT PROTECTION OWNER FURNISHED
C CB,C/B CEC	-C- CONDUIT CIRCUIT BREAKER CALIFORNIA ELECTRICAL CODE	OFOI	CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED
CT CU	CURRENT TRANSFORMER COPPER -D-	PT PVC	-P- POTENTIAL TRANSFORMER POLYVINYL CHLORIDE CONDUIT
DC EA	DIRECT CURRENT - <b>E</b> - EACH	RLA RSC	<b>-R-</b> RUNNING LOAD AMP RIGID STEEL CONDUIT
ELEC EMT FA FACP	ELECTRICAL ELECTRICAL METALLIC TUBING -F- FIRE ALARM FIRE ALARM CONTROL PANEL	SPD SPDT SPST SST	-S- SURGE PROTECTION DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SOLID STATE TRIP
FATC FLA FT G, GND	FIRE ALARM TERMINAL CABINET FULL LOAD AMPS FOOT OR FEET -G- GROUND	TER TR TM TTB	-T- TELECOM EQUIPMENT ROOM TELECOM ROOM THERMAL MAGNETIC TERMINAL BACKBOARD
GA GFCI GFI	GAUGE GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER -H-	UG UL UON UPS	-U- UNDERGROUND UNDERWRITERS LAB. UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
HOA HP J-BOX	HAND-OFF-AUTO HORSE POWER -J- JUNCTION BOX	V VA VAC	-V- VOLTS VOLT-AMPS VOLTS ALTERNATE CURRENT
KVA KW	-K- ONE THOUSAND VOLT-AMPS ONE THOUSAND WATTS	W WCR WP	<b>-W-</b> WATTS WITHSTAND & CLOSING RATING WEATHERPROOF
LCP LTG	<b>-L-</b> LIGHTING CONTROL PANEL LIGHTING	XFMR XFER	<b>-X-</b> TRANSFORMER TRANSFER SWITCH
	GENERA	L NOT	ES
ARE TRE "AS- OF E DAM AT C	TING UNDERGROUND UTILITIES AF NOT KNOWN. CONTRACTOR SHAL NCHING OR EXCAVATING IN ANY A BUILT" DRAWINGS, AND SCHOOL M EXISTING UNDERGROUND WORK. I AGED DURING CONSTRUCTION, CO WN EXPENSE. NEW UNDERGROU FORM TO EXISTING CONDITIONS.	RE PRESENT LL LOCATE A REA. CONSU IAINTENANC F EXISTING ONTRACTOF	T, BUT THEIR EXACT LOCATIONS AND PROTECT BEFORE JLT UTILITY COMPANIES, E PERSONNEL FOR LOCATION PIPING OR UTILITIES ARE R SHALL REPAIR IMMEDIATELY
EXA CON	ORMATION GIVEN, CONCERNING EX CT AS COULD BE SECURED, BUT EX ITRACTOR SHALL VISIT THE JOB SI THE CONDITIONS UNDER WHICH TH	XTREME AC	CURACY IS NOT GUARANTEED. D BIDS AND SATISFY HIMSELF AS
SPE	TING CIRCUITS AND SERVICES SH, CIFIC APPROVAL OF THE SCHOOL. H THE SCHOOL.		
4. ALL	INTERIOR CONDUIT SHALL BE RUN	CONCEALE	D.
UND CRO	ITRACTOR SHALL VISIT SITE PRIOR ERGROUND CONDUITS. NOTE ARE ISSED AND INCLUDE IN BID ALL CO WN ON DETAILS.	EAS OF CON	CRETE AND ASPHALT BEING
	VIDE TRAFFIC RATED (H/20 LOAD) ( ESS SPECIFICALLY NOTED OTHER)		BOXES FOR ALL PULLBOXES
REQ	ER TO DETAILS ON STRUCTURAL D UIREMENTS THROUGH FRAMING T TERS, ETC. PROVIDE NOTCHING B	OP PLATES,	SILL PLATES, BEAMS, JOIST,

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

- FLEXIBLE CABLE.

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

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

## ABBREVIATIONS

RAFTERS, ETC. PROVIDE NOTCHING BORING, DRILLING, ANCHOR BOLTS AND OTHER WORK IN STRICTEST CONFORMANCE TO STRUCTURAL DETAILS.

## MEP COMPONENT ANCHORAGE NOTES

ALL PERMANENT EQUIPMENT AND COMPONENTS. TEMPORARY OR MOVABLE 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 110/120 VOLT RECEPTACLES HAVING A

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 MATTER APPROVED BY DSA.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT. 3. 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.

## STANDARD ELECTRICAL SYMBOLS

YMBOL	DESCRIPTION
$\langle \mathbf{x} \mathbf{x} \rangle$	NUMBERED NOTE.
	ENLARGED PLAN OR DETAIL CALL-OUT.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
<b>X##</b>	PULLBOX. REFER TO PULLBOX SCHEDULE & PULLBOX DETAIL.
Р	EXTERIOR POLE LIGHT, SINGLE LUMINAIRE.
$\Box \sim 1$	EXTERIOR POLE LIGHT, TWO LUMINAIRES.
<u>B</u>	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.
TCH	ASTRONOMICAL TIME CLOCK, 2-RELAYS, MOUNT AT +48" TO TOP OF DEVIC <u>TORK EWZ201C SERIES.</u> UNIVERSAL VOLTAGE, 6 VA MAX. PROVIDE 5" SQUARE X 2 7/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. STUB 1 1/4" CONDUIT WITH 90 DEGREE BEND INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATING BUSHING.

## RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	REMOVE (E) WIRE, PULL IN NEW WIRES, #12 AWG UNLESS NOTED.
— x —	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
ŧ	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
<b>≠</b> #10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

## SHEET INDEX

SHEET DESCRIPTION

-001	ABBREVIATIONS, SYMBOLS, SHEET INDEX, LUMINAIRE SCHEDULE, & DETAI
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## GENERAL ELECTRICAL NOTES

WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOWN IN THE DETAILS ARE FOR REFERENCE ONLY. THROUGH- PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR DEPARTMENT OF THE STATE ARCHITECT REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.

ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.

## PIPING, DUCTWORK AND ELECTRICAL **DISTRIBUTION SYSTEM BRACING NOTE**

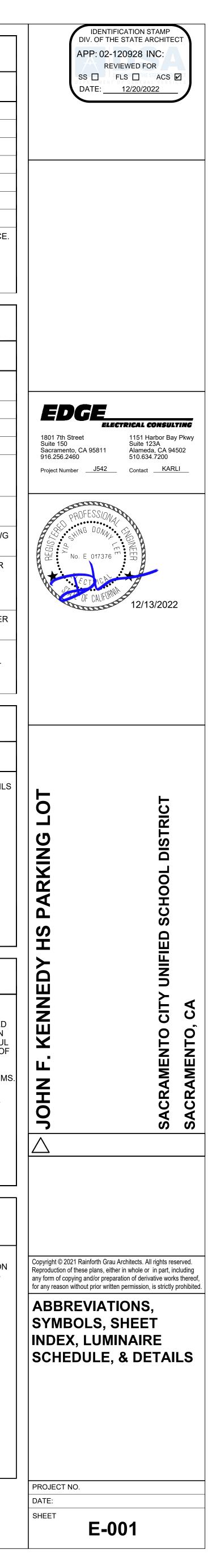
PIPING. DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24; 1617.A1.25 AND 1617.A1.26.

THE METHOD 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. OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MPo MDo PPo Eo **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 #) #0052-13.



### SECTION 26 00 00 - ELECTRICAL WORK Armored cable is not permitted. 4. Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. PART 1 GENERAL 5. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 6. Above Accessible Ceilings: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 7. Wet or Damp Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 1.01 CONDITIONS: A. The Requirements of General Conditions and Special Conditions apply to Work of this Section as if fully repeated herein. Exterior Locations 9. Underground Loc 1.02 WORK INCLUDED: O. Wiring Device Application A. Provide a complete working installation of all electrical systems as shown of drawings or as specified. 1. Provide wiring de B. Provide all labor, materials, tools, and equipment necessary for the complete in-place installation of all electrical and low voltage items complete as shown on drawings and as specified. 2. For single recepta C. Provide submittals and shop drawings. GFCI Protection: ground or less, 10 D. Complete lighting as indicated to include switching and controls as indicated. a. Rooftops. E. Complete new power distribution throughout project including main electrical service, distribution panelboards, branch circuit panelboards, conduit, wire, pull boxes, junction boxes and b. Outdoors an miscellaneous materials. F. Complete receptacle branch circuits including conduit, wire, outlet boxes and devices. Unless noted other G. Electrical connections to equipment furnished and installed under other sections. 1.08 DEMOLITION: H. Include sealing and fireproofing of conduits, cable trays, cables etc Electrical components are identified as follows: A. Removal of existing electron Work 1. Nameplate for each electrical distribution and control equipment enclosure. 1. Protect items to re 2. Label for identification of receptacles, light switches, and control device stations. 2. Relocate existing 3. Wire marker for each conductor at panel boards' gutters, pull boxes, outlet and junction boxes, and each load connection. 3. Conduct demolitio 4. Permanent ink felt tip marker on cover indicating panel and circuit for junction boxes located above suspended ceilings and below ceilings in non-public areas. 4. Coordinate demo Coordinate and se 1.03 CODES AND STANDARDS 6. Shut-down Period A. Work and materials shall be in full accordance with California Occupational Safety Health Act (CAL-OSHA), California Electrical Code (CEC), State Fire Marshal, Title 8, Safety Orders of Division of Industrial Safety (ESO), the National Fire Protection Association, California Building Code (CBC); California Code of Regulations - Title 24 and other applicable laws or a. Arrange timi regulations. Nothing in the Drawings or Specifications shall be construed to permit work not conforming to these codes. Procedure' B. When Contract Documents differ from governing codes, furnish, and install larger size or higher standards called for without extra charge. b. Keep shut-d Maintain life 1.04 QUALITY ASSURANCE: Identify salvage it A. Requirements of Regulatory Agencies: 1. Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules, or regulations. 1.09 DRAWINGS AND COORDIN 2. All materials and equipment shall be installed in accordance with manufacturer's recommendations and in accordance with the National Electrical Contractors Association (NECA) A. Drawings: Standard of Installation. 1. For purposes of 3. Equipment to be installed or permanently connected (hardwired) shall be listed, labeled, or certified by a Nationally Recognized Testing Laboratory (NRTL). unless specifical Exact routing of w Contract Docum 1.05 SPECIFICATIONS AND CONTRACT DRAWINGS group them into c A. Accuracy of data given herein and on the drawings is as exact as could be secured, but their extreme accuracy is not guaranteed. The drawings and specifications are for the Dimensions, local assistance and guidance of the Contractor and exact locations, distances, levels, etc., will be governed by the construction and the Contractor shall accept same with this Consult the Archit understanding. Drawings. B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial and not exact) but shall be followed as closely as possible. Architectural, structural, mechanical, Drawings indicate, and other drawings shall be examined noting all conditions that may affect this work. Where connections to equipment provided by other divisions are shown on electrical drawings, conduits to panel refer to drawings of respective division for exact locations and electrical requirements of equipment. B. Coordination: C. Report conflicting conditions to the Architect for adjustment before proceeding with work. Should Contractor proceed with work without reporting conflict(s), he does so on his own 1. Work out all "tight" responsibility, and shall alter work if directed by the Architect, at his own expense. conditions, at no in D. Right is reserved to make minor changes in locations of equipment and wiring systems shown, providing change is ordered before conduit runs and/or work directly connected to same Differences of dis Is Installed and no extra materials are required. Document require E. Drawings and specifications may be superseded by later detail specification and detail drawings prepared by the Architect, and the Contractor shall conform to them and to such 3. Coordinate electri easonable changes in the contract drawings as may be called for by these revised drawings without extra cost to the Owner. F. Contractor may request additional detail(s), and such shall be conformed to, without additional cost. Contractor may offer alternate detail(s), but such detail(s) shall be approved by 4. Provide templates Architect and authority having jurisdiction Make every effort unavoidable, sche 1.06 SUBMITTALS: C. Equipment Rough-In: A. Submission Requirements 1. Rough-in locations rough-in locations 1. Contractor is responsible for the scheduling of submittals to avoid detrimental impact to the construction schedule and to support the timely sequence of the Work. Allow a minimum of 15-working days for submittal review by the Engineer. Complex submittals or submittals which are not provided as complete packages may take longer than a. From Shop I 15-working days for review. Contractor should allow time for potential rejection and re-submittal of submittals which are being offered as substitution to the specified products. b. From the Are 2. Contractor shall review submittals for completeness, coordination and conflicts between subcontractors and other work in the Contract Documents. Submittals made by Contractor c. From the Arc which are not thoroughly reviewed by the Contractor will be returned. Submittals which vary significantly from the Contract Documents and are not so identified prior to 2. Verify electrical c submission, will be returned to the Contractor without review. 3. Unless otherwise 3. Make submissions within following number of days from issuance of Notice to Proceed or Start Letter shall be wired to a. Items needed in initial stages of Work or requiring long lead-time for ordering: 15 calendar days. receptacle conne b. All other items: 21 calendar days 4. Unless otherwise 4. Before submitting a shop drawing or any related material, Contractor shall: review each such submission for conformance with the means, methods, techniques, sequences, and terminals for direct operations of construction, and safety precautions and programs incidental thereto, all of which are the sole responsibility of the Contractor; approve each such submission before by the Contractor submitting it; and stamp each such submission before submitting it. Engineer shall assume that no shop drawing or related submittal comprises a variation unless the Contractor 5. Insert plug in rece advises the Engineer otherwise via a written instrument which is acknowledged by the Engineer in writing. 5. Engineer will check submittals for conformance with design concepts of project. Approval covers only such conformance. Effort will be made by Engineer to discover any errors, but responsibility for accuracy and correctness of all submittals shall be with the Contractor. 1.10 WORKING SPACE 6. Approval of submittals will be on a general basis only and shall not relieve the Contractor from their responsibility for proper fitting and construction of the Work, nor from A. Adequate working space furnishing materials and labor required by the Contract which may not be indicated on the submittals when approved front of switchboards, 7. No portion of the work requiring submittals shall be commenced until the submittal for that portion of the work has been approved by Engineer. All such portions of work shall be in electrical equipment with accordance with the approved submittal. Any work performed without approved submittals will be done so at the Contractor's own risk. Work found not to be in compliance with the approved submittals shall be removed and corrected at the Contractor's own expense. 1.11 FIRE STOPPING SYSTEM 8. Number of Copies Required - Contractor shall submit following number of copies: A. Firestopping Materials a. Product Data/Material Lists: 1-electronic copy in PDF format. b. Samples: As specifically indicated in pertinent specification section. B. Firestop interruptions to C. Firestopping: Conform to c. Substitution Request: 1-copy in PDF format D. Firestopping: Provide ce 9. Submittals shall include (where applicable) a. Date and revision dates. 1.12 PROJECT RECORD DOCUM b. Project title and number. A. At time of installation c. The names of Architect, Engineer, Contractor, Subcontractor and supplier or manufacturer. adjusted on a daily bas d. Identification of product or material. B. All information entered e. Relation to adjacent structure or material. qualified draftsperson f. Field dimensions clearly identified as such. C. Locate and dimension g. Specification section number. D. All symbols and designation h. A blank space for Engineer's stamp. E. Record drawing shall b i. Contractor's stamp on each, initialed or signed, certifying that submittal was reviewed, field measurements have been verified and submittal is in compliance with the F. Record drawing signoff: applicable specification section and the overall Contract Documents. 1. At such time that t 10. Incomplete, inaccurate, or non-complying submittals requiring revisions, re-submittal, and additional review time, shall not be considered as a basis for Contract time extension. not currently part 11. Two reviews will be made for each submittal. Additional reviews will be charged to the Contractor. A rejection of a submittal or review of a partially presented submittal corrections have constitutes one submittal review. Incomplete submittals, such as product data submitted without required shop drawings, will be returned without review. At project complete B. Required Submittals revisions. Once a original record dra 1. Various specification sections may state additional information to be submitted. 2. Submittals are required for all materials even though the submitted material may be exactly as specified in the Project Manual. 1.13 SITE EXAMINATION AND C 3. Electrical Materials Submittal: A. Examine site; verify din a. Submit product data only for materials that are being substituted. Product data is not required for materials that are being provided as specified. made for extra expense b. Electrical materials include raceway, boxes, supports, finish material, etc. B. Information shown related to the second seco 4. Electrical Equipment Submittal: locations and condition Submit product data for all equipment C. Extreme care shall be b. Electrical equipment includes panelboards, switchboards, transformers, underground pull boxes, floor boxes, light fixtures, etc. D. Where signal systems add devices or modify 5. Low Voltage and Control Systems Submittals E. Where new conduits ar a. Provide product data for each item in the system. asphalt being crossed, a b. Provide shop drawings for each system. F. Where existing conduit c. Low voltage and control systems include lighting controls, sound communications, fire alarm, etc. C. Product Data 1.14 WORKMANSHIP 1. Manufacturer's Standard Schematic Drawings: A. Good workmanship sha a. Modify drawings to delete information which is not applicable to the Project. materials shall be firmly b. Supplement standard information to provide additional information which is applicable to the Project. shall be followed exce 2. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other standard descriptive data. 1.15 COOPERATION AND COORE a. Clearly mark each copy to identify pertinent materials, products, or models. Mark out or remove all extraneous information. A. Cooperate and coordina b. Show dimensions and clearances required. crafts shall be moved a c. Show performance characteristics and capacities. d. Show wiring diagrams and controls. 1.16 CARE AND CLEANING D. Substitutions A. After all work has been 1. Engineer's Approval Required marks. All electrical equ a. Contract is based on materials, equipment and methods described in Contract Documents. Substitutions will not be reviewed and approved prior to the award of the rubbish, and debris res used in or resulting fror B. All broken, damaged, b. Engineer will consider proposals during the submittal process for substitution of materials, equipment, and methods only when such proposals are accompanied by full and carefully clean and adj complete technical data and all other information required by Engineer to evaluate proposed substitution. Substitution shall be submitted with completed Substitution Request Form. C. All surplus materials an c. Do not substitute materials, equipment, or methods unless such substitution has been specifically approved for this work by Engineer 2. "Or Equal": Whenever, in Contract Documents, any material, process or specified patent or proprietary name and/or by name of manufacturer is indicated, such name shall be 1.17 PROTECTION deemed to be used for purpose of facilitating description of material and/or process desired, and shall be deemed to be followed by the words "or equal", or "accepted equal", and A. The Contractor shall p Contractor may offer any material or process which shall be equal in every respect to that so indicated or specified; provided, however, that if material, process or article offered on the job site shall be p by Contractor is not, in opinion of Architect, equal in every respect to that specified, then Contractor must furnish material, process or article specified or one that in opinion of Engineer is equal thereof in every respect 3. "No Substitutions": Items indicated as "No Substitutions" must be provided as specified and no alternates will be allowed. These items are required either due to District standards 1.18 GUARANTEE: by the Board or to match materials recently installed by others. A. Standard Guarantee: F 4. Coordination: Approval of substitution shall not relieve Contractor from responsibility for compliance with all requirements of Drawings and Project Manual, and Contractor shall be materials for a period responsible at his own expense for any changes in other parts of his own work or work of others which may be caused by approved substitution. caused thereby which B. Indicate on Guarantee 1.07 SYSTEM DESCRIPTION C. Additional Guarantees: A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory D. Binder: Provide a binde requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system. items covered and leng B. Conductor sizes are based on copper unless indicated as aluminum or "AL" C. When aluminum conductor is substituted for copper conductor, size to match circuit requirements, terminations, conductor ampacity and voltage drop. Contractor shall be responsible 1.19 OPERATING TEST for verifying maximum number of aluminum conductors for substituted copper conductors in specified conduit. A. After the installation is D. All wiring shall be installed in raceway. E. Underground More than 5 feet outside Foundation Wall: Provide thick wall nonmetallic conduit. Provide cast metal boxes or nonmetallic handhole PART 2 PRODUCTS F. Underground Within 5 feet from Foundation Wall: Provide thick wall nonmetallic conduit. Provide cast metal or nonmetallic boxes. In Slab Above Grade: Not permitted 2.01 DESIGN REQUIREMENTS: H. Below Slab on Grade: Use thick wall nonmetallic conduit. Terminate with coated rigid steel elbows and short length of coated rigid steel conduit out of concrete. A. Minimum Raceway Siz I. Outdoor Locations, Above Grade: Provide galvanized rigid steel conduit. Provide cast metal outlet, pull, and junction boxes. 1. 0.75 inch unless J. Wet and Damp Locations: galvanized rigid steel conduit. Provide cast metal outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas. 2. 1 inch for homerur K. Concealed Dry Locations: Provide electrical metallic tubing. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull 3. 1 inch for outside t boxes where shown on drawings. Provide J-hooks when shown on plans. L. Exposed Interior Dry Locations: Use rigid steel conduit or intermediate metal conduit below eight feet or where subject to damage. Use rigid steel conduit, intermediate metal conduit, or electrical metallic tubing above eight feet or in electrical, mechanical or telecommunication rooms. Use sheet-metal or cast metal boxes. Use flush mounting outlet box in finished 2.02 BUILDING WIRE: areas. Provide hinged enclosure for large pull boxes. A. Product Description: Sin M. Product requirements: Provide products as follows: B. Conductor: Copper Stra 1. Stranded conductor for feeders and branch circuits. C. Insulation Voltage Ratin 2. Stranded conductors for control circuits. D. Insulation Temperature 3. Conductor not smaller than 12 AWG for power and lighting circuits. E. Copper Building Wire in 4. Conductor not smaller than 12 AWG for line voltage control circuits (120-volt). F. Copper Underground ir 5. Conductor not smaller than 16 AWG for control circuits. 6. Increase wire size in branch circuits to limit voltage drop to a maximum of 3 percent. 2.03 WIRING CONNECTORS: 7. 10 AWG conductors for 20 ampere or larger as designated on plans for 120-volt branch circuit home runs longer than 75 feet. A. Description: Wiring con 8. 10 AWG conductors for 20 ampere or larger as designated on plans for 277-volt branch circuit home runs longer than 200 feet. applicable.

N. Conductor and Cable Applications: 1. Do not use conductors and cables for applications other than as permitted by NFPA 70 and product listing.

2. Provide single conductor building wire installed in suitable raceway unless otherwise indicated, permitted, or required.

<ol> <li>Above Accessible Ceilings: Use only building wire, Type THHN/THWN-2 insulation, in raceway.</li> <li>Wet or Damp Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway.</li> </ol>	<ol> <li>Provide compression adapters for connecting conductors to equipment furnished with mechanical lug</li> <li>Where over-sized conductors are larger than the equipment terminations can accommodate, provide</li> </ol>
<ol> <li>8. Exterior Locations: Use only building wire, Type XHHW-2 insulation, in raceway.</li> <li>9. Underground Locations: Use only building wire, Type XHHW-2 insulation, in raceway.</li> </ol>	<ul><li>required for the rating of the overcurrent protective device.</li><li>Copper Conductors Size 8 AWG and Larger: Use mechanical connectors or compression connectors</li></ul>
<ul> <li>O. Wiring Device Applications:</li> <li>1. Provide wiring devices suitable for intended use and with ratings adequate for load served.</li> </ul>	<ol> <li>Conductors Size 10 AWG and Smaller: Use crimped terminals for connections to terminal screws.</li> <li>Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors with</li> </ol>
<ol> <li>For single receptacles installed on an individual branch circuit, provide receptacle with ampere rating not less than that of the branch circuit.</li> </ol>	<ul> <li>F. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors.</li> <li>G. Twist-on Insulated Spring Connectors: Rated 600-volt, 221 degrees F for standard applications and 302 degrees F for standard applications applications and 302 degrees F for standard applications and 302 degrees F for standard applications application</li></ul>
<ol> <li>GFCI Protection: Provide GFCI protection for all single-phase receptacles rated 150-volt to ground or less, 50-amps or less and all three-phase receptacles rated 150-volt to ground or less, 100-amps or less in the following locations:</li> </ol>	<ul> <li>G. Twist-on Insulated Spring Connectors: Rated 600-volt, 221 degrees F for standard applications and 302 de as complying with UL 486D for damp and wet locations.</li> <li>H. Mechanical Connectors: Provide bolted type.</li> </ul>
<ul> <li>a. Rooftops.</li> <li>b. Outdoors and Indoor Wet Locations. Provide weather resistant GFCI type receptacle with extra duty weatherproof while in use cover.</li> </ul>	I. Compression Connectors: Provide circumferential type or hex type crimp configuration.
4. Unless noted otherwise, do not use combination switch/receptacle devices.	J. Crimped Terminals: Nylon-insulated, with insulation grip and terminal configuration suitable for connection
DEMOLITION:	2.04 METAL CONDUIT: A. Rigid Steel Conduit: ANSI C80.1.
<ul> <li>Removal of existing electrical equipment, wiring, and conduit in areas to be remodeled; removal of designated construction; dismantling, cutting and alterations for completion of the Work.</li> <li>Protect items to remain</li> </ul>	<ul> <li>B. Intermediate Metal Conduit (IMC): Rigid steel.</li> <li>C. Eittings and Canduit Padiasi NEMA EP 4. Eittings aball he steel/mallaphia ison with threaded fittings. Use in</li> </ul>
<ol> <li>Protect items to remain.</li> <li>Relocate existing equipment to accommodate construction.</li> </ol>	C. Fittings and Conduit Bodies: NEMA FB 1. Fittings shall be steel/malleable iron with threaded fittings. Use ir Use plastic bushing for non-bonding applications.
<ol> <li>Conduct demolition to minimize interference with adjacent and occupied building areas.</li> <li>Coordinate demolition work with Owner's representative and all other disciplines.</li> </ol>	2.05 PVC COATED METAL CONDUIT
<ol> <li>Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas.</li> <li>Shut-down Periods:</li> </ol>	<ul> <li>A. Product Description: NEMA RN 1; rigid steel conduit with external PVC coating, 40 mil thick.</li> <li>B. Fittings and Conduit Bodies: NEMA FB 1; steel fittings with external PVC coating to match conduit.</li> </ul>
a. Arrange timing of shut-down periods of in-service panels with Owner's representative. Do not shut down any utility without prior written approval and submitting a "Method of	
<ul><li>Procedure" for review</li><li>b. Keep shut-down period to minimum or use intermittent period as directed by Owner's representative.</li></ul>	2.06 ELECTRICAL METALLIC TUBING:
<ul> <li>Maintain life-safety systems in full operation in occupied facilities or provide notice minimum 72 hours in advance and fire watch.</li> <li>Identify salvage items in cooperation with Owner.</li> </ul>	<ul><li>A. Product Description: ANSI C80.3; galvanized tubing.</li><li>B. Fittings and Conduit Bodies: NEMA FB 1; steel couplings and connectors. Box connectors shall have with in</li></ul>
09 DRAWINGS AND COORDINATION WITH OTHER WORK:	2.07 NONMETALLIC CONDUIT:
A. Drawings:	A. Product Description: NEMA TC 2; Schedule 40 PVC.
<ol> <li>For purposes of clarity and legibility, Drawings are essentially diagrammatic to the extent that many offsets, bends, special fittings, and the exact locations of items are not shown, unless specifically dimensioned.</li> </ol>	B. Fittings and Conduit Bodies: NEMA TC 3.
2. Exact routing of wiring and locations of outlets, panels, and other items, shall be governed by structural conditions, and materials and equipment already in place. Use data in the Contract Documents. In addition, the Architect reserves the right, at no increase in Contract Sum, to make any reasonable change in locations of exposed electrical items, to group them into orderly relationship and/or increase their utility. Verify the Architect's requirements in this regard prior to roughing-in.	<ul> <li>FLASH PROTECTION:</li> <li>A. Electrical equipment including switchboards, panelboards, disconnect switches, etc. which are likely to require</li> </ul>
<ol> <li>Dimensions, locations of doors, partitions and similar physical features shall be taken from Architectural Drawings and verified at the site as part of the Work of this Division.</li> <li>Consult the Architectural Drawings for exact location of outlets to center with architectural features, panels, and similar items, at the approximate locations shown on the Electrical</li> </ol>	marked to warn of potential electric arch flash hazards per CEC Article 110.16. Marking shall be a pre-print
Drawings. 4. Drawings indicate, generally, routes of all branch circuits. All runs to panels are indicated as starting from nearest outlet, pointing to direction of panel. Continue all such circuits,	2.09 NAMEPLATES:
conduits to panel as though routes were indicated in their entirety. B. Coordination:	<ul><li>A. Product Description: Laminated three-layer plastic with engraved letters on contrasting background color.</li><li>B. Letter Size:</li></ul>
<ol> <li>Work out all "tight" conditions involving Work of this Division and Work of other Divisions in advance of installation. Provide additional Work necessary to overcome "tight" conditions, at no increase in Contract Sum.</li> </ol>	<ol> <li>0.125-inch high letters for identifying individual equipment and loads.</li> <li>0.50-inch high letters for identifying grouped equipment and loads.</li> </ol>
<ol> <li>Differences of disputes concerning coordination, interference or extent of Work between Divisions shall be decided by Contractor. If the decision is consistent with Contract Document requirements, then it shall be final.</li> </ol>	C. Minimum nameplate thickness: 0.125-inch.
3. Coordinate electrical interface of mechanical equipment with Mechanical and Plumbing.	2.10 LABELS:
<ol> <li>Provide templates, information, and instructions for Work of other Divisions to properly locate holes and openings to be cut or provided for Electrical Work.</li> <li>Make every effort to keep existing electrical circuits, including telephone, public address, fire alarm, power, and other electrical services, in operation. Where power outages are</li> </ol>	A. Labels: Thermal transfer laminated adhesive tape with 0.125-inch black letters on clear tape cartridge.
unavoidable, schedule such outages with the Owner to occur at such times as to cause the least disruption of normal facility functions. C. Equipment Rough-In:	PART 3 EXECUTION
1. Rough-in locations shown on Electrical Drawings for equipment furnished by the Owner and for equipment furnished under other Divisions are approximate only. Obtain exact rough-in locations from the following sources:	3.01 GENERAL:
<ul><li>a. From Shop Drawings for Contractor-furnished and installed equipment.</li><li>b. From the Architect for Owner-furnished, Contractor-installed equipment.</li></ul>	<ul><li>A. Manufacturer's Directions: Follow manufacturer's directions where manufacturers of articles used furnish d</li><li>B. All Work shall be done in orderly, workmanlike manner and present neat appearing installation when compl</li></ul>
c. From the Architect for existing equipment where such equipment is relocated as part of the Work of this Contract.	C. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work backing will not be permitted in combination with metal framing.
<ol> <li>Verify electrical characteristics of equipment before starting rough-in.</li> <li>Unless otherwise shown or specified, equipment which requires electrical connection shall be installed as part of the Work of the Division in which specified. Internal components are already and plus for</li> </ol>	<ul> <li>Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform t for negligence to foresee means of placing, installing, or supporting equipment in position.</li> </ul>
shall be wired to a single point with wiring in raceway direct connection (hardwired) to building electrical system or internal wiring and connections with cord and plug for receptacle connection to building wiring.	<ul> <li>E. Electrical products shall be anchored and fastened to building elements and finishes as follows:</li> <li>1. Concrete Structural Elements: Provide expansion anchors and powder actuated anchors.</li> </ul>
4. Unless otherwise shown or specified, provide direct raceway and conductor connections from building wiring system to equipment terminals for direct-connected equipment terminals for direct-connected equipment which is Contractor-furnished and Contractor-installed, Owner-furnished and Contractor-installed, and for existing equipment relocated by the Contractor.	2. Steel Structural Elements: Provide beam clamps and spring steel clips.
<ol> <li>Insert plug in receptacle for cord-connected equipment which is Contractor-furnished and Contractor-installed, Owner-furnished, and Contractor-installed and for existing equipment relocated by the Contractor. Provide new cord and plug if required on Owner-furnished and Contractor-installed equipment.</li> </ol>	<ol> <li>Concrete Surfaces: Provide expansion anchors.</li> <li>Solid Masonry Walls: Provide expansion anchors.</li> </ol>
	<ol> <li>Sheet Metal: Provide sheet metal screws.</li> <li>Wood Elements: Provide wood screws.</li> </ol>
<ul> <li>WORKING SPACE</li> <li>A. Adequate working space shall be provided around electrical equipment in strict compliance with the Codes. In general, provide 78" of headroom and 36" minimum clear workspace in</li> </ul>	F. All wiring shall be installed in conduit, unless specifically shown otherwise on plans.
front of switchboards, panelboards, transformers, disconnect switches and controls for 120/208-volts and 42" for 277/480-volts. Carefully coordinate locations and orientation of electrical equipment with other divisions to ensure that working space will be clear of piping, conduits, and equipment provided by others.	3.02 DRAWINGS AND COORDINATION:
11 FIRE STOPPING SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS	<ul> <li>A. Examine Drawings and Site; be familiar with types of construction where electrical installation is involved.</li> <li>1. Work shall be neatly installed in a workmanlike manner in accordance with NECA Standard of Installa</li> </ul>
<ul> <li>A. Firestopping Materials: ASTM E119, ASTM E814, UL 263, UL 1479, to achieve fire ratings of adjacent construction in accordance with FM and UL Design Numbers noted on Drawings.</li> <li>B. Firestop interruptions to fire rated assemblies, materials, and components.</li> </ul>	Clarifications will be made by Engineer and minor adjustments shall be made without additional cost t B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial) but shall be followed
C. Firestopping: Conform to applicable code, FM, and UL for fire resistance ratings and surface burning characteristics.	guidance, and exact locations, distances, levels, etc., will be governed by Site.
D. Firestopping: Provide certificate of compliance from authority having jurisdiction indicating approval of materials used.	3.03 EQUIPMENT INSTALLATION:
<ul> <li>PROJECT RECORD DOCUMENTS:</li> <li>A. At time of installation, installed locations of all underground work shall be recorded on prints by Contractor, and reviewed with Inspector. Record drawings are to be maintained and</li> </ul>	A. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work backing will not be permitted in combination with metal framing.
adjusted on a daily basis by the Contractor. B. All information entered on drawings copy shall be neat, legible, and emphasized by drawing "clouds" around changed items. Changes shall be made in an accurate manner by a	B. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform t for negligence to foresee means of placing, installing, or supporting equipment in position.
<ul><li>qualified draftsperson acceptable to Architect. Completed Record Drawings shall be signed by the Contractor.</li><li>C. Locate and dimension all major equipment and underground work, including stubs and pull boxes. Provide dimensions from curbs, foundations, or other permanent landmarks.</li></ul>	3.04 EXCAVATING AND BACKFILLING:
D. All symbols and designations used in preparing record drawings shall match those used in the Contract Drawings.	A. Excavate and backfill as required for installation of electrical work. Restore all surfaces, roadways, sod, wal original condition in an acceptable manner. Maintain all warning signs, barricades, flares, and lanterns as re
<ul> <li>E. Record drawing shall be up-dated monthly.</li> <li>F. Record drawing signoff:</li> </ul>	3.05 FIRESTOPPING
1. At such time that the underground work has been completed, all the contractors and sub-contractors notes, sketch and miscellaneous drawings documenting installed locations not currently part of the ongoing record drawing set shall be transferred. These updates shall be reviewed for accuracy by the inspector of record and architect. Once all corrections have been completed the inspector shall sign and date the record set coversheet noting it as acceptance of the underground phase of record drawings.	<ul> <li>A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, du</li> <li>B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved,</li> </ul>
2. At project completion, the record drawings shall be submitted by the contractor for project inspector and architect review and comment. These will be returned to the contractor for	<ul> <li>C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating.</li> </ul>
revisions. Once all corrections have been completed the inspector shall sign and date the record set coversheet noting it as acceptance of the completed record drawings. The original record drawings are to be resubmitted to the architect along with a scanned electronic file set in PDF format with file names matching the drawing titles.	<ul><li>D. Place intumescent coating in sufficient coats to achieve rating required.</li><li>E. Remove dam material after firestopping material has cured.</li></ul>
13 SITE EXAMINATION AND CONDITIONS:	<ul><li>F. Fire Rated Surface:</li><li>1. Seal opening at floor, wall, partition, ceiling, and roof as follows:</li></ul>
A. Examine site; verify dimensions and locations against drawings and become informed of all conditions under which work is to be done before submitting proposal. No allowance will be made for extra expenses because of omission on Contractor's part to include cost of work under prevailing conditions.	a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of buildin
B. Information shown relative to services is based upon available records and data shall be regarded as approximate only. Minor deviations found necessary to conform with actual locations and conditions shall be made without extra cost.	<ul><li>b. Size sleeve allowing minimum of 1-inch void between sleeve and building element.</li><li>c. Pack void with backing material.</li></ul>
<ul> <li>C. Extreme care shall be exercised in excavating near existing utilities to avoid any damage thereto; contractor is responsible for any damage caused by such operations.</li> <li>D. Where signal systems exist, and services of other firms are required, Contractor shall instruct those firms to investigate existing systems and determine labor and materials needed to</li> </ul>	<ul> <li>d. Seal ends of sleeve with UL listed fire resistive silicone compound to meet fire rating of structure</li> <li>2. Where cable tray, bus, cable bus, conduit, wireway, and trough penetrates fire rated surface, install fire</li> </ul>
add devices or modify systems. E. Where new conduits are to be run underground at existing sites, contractor shall visit site prior to bidding and walk routes of new underground conduits, note areas of concrete and	G. Non-Rated Surfaces:
asphalt being crossed, and include in bid all costs for cutting and patching. F. Where existing conduits are shown, their location is diagrammatic, and their exact location may not be known.	<ol> <li>Seal opening through non-fire rated wall, partition, floor, ceiling, and roof opening as follows:</li> <li>a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building</li> </ol>
14 WORKMANSHIP	<ul><li>b. Size sleeve allowing minimum of 1-inch void between sleeve and building element.</li><li>c. Install type of firestopping material recommended by manufacturer.</li></ul>
A. Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The recommendations of the National Electrical Contractors Association Standard of installation	<ol> <li>Install floor plates or ceiling plates where conduit, penetrates non-fire rated surfaces in occupied spac penetration occurs below finished ceiling.</li> </ol>
shall be followed except where otherwise specifically directed.	<ol> <li>Exterior wall openings below grade: Assemble rubber links of mechanical seal to size of conduit and t</li> <li>Interior partitions: Seal pipe penetrations at clean rooms, laboratories, hospital spaces, computer roor</li> </ol>
15 COOPERATION AND COORDINATION	of penetration to completely fill annular space between sleeve and conduit.
A. Cooperate and coordinate with other crafts in putting the installation in place at a time when the space required by this installation is accessible. Work done without regard to other crafts shall be moved at the Contractor's expense.	3.06 PROTECTION:
16 CARE AND CLEANING	A. In performance of work, protect work from damage. Protect electrical equipment, stored, and installed, from
A. After all work has been accomplished such as sanding, painting, etc., lighting fixtures, panelboards, and switchboards shall be cleaned to remove all dust, dirt, grease, paint, or other marks. All electrical equipment shall be left in a clean condition inside and out, satisfactory to the Architect. Keep buildings and premises free from accumulated waste materials, rubbish, and dotris resulting from work bergin, and upon completion of said work, remove cleaned out, applicance, curplus materials, work materials, multiplicance, curplus materials, work materials, and out, satisfactory to the applicance, curplus materials, work materials, and out, satisfactory to the applicance, curplus materials, work materials, and out, satisfactory to the applicance, curplus materials, work materials, and solve and the satisfactory to the applicance, curplus materials, materials, applicance, curplus	<ul><li>3.07 INSTALLATION OF BRANCH CIRCUITS:</li><li>A. Single pole circuit breakers serving a multi-wire branch circuit shall be provided with an identified handle tie</li></ul>
rubbish, and debris resulting from work herein, and, upon completion of said work, remove tools, appliances, surplus materials, waste materials, rubbish, debris, and accessory items used in or resulting from said work and legally dispose of off the site.	<ul> <li>B. Dedicated branch circuits shall have dedicated neutrals.</li> </ul>
<ul> <li>B. All broken, damaged, or otherwise defective parts shall be repaired or replaced without additional cost to Owner. Work shall be left in a condition satisfactory to Engineer. At completion, carefully clean and adjust all equipment, fixtures and trim installed as part of this work. Systems and equipment shall be left in a satisfactory operating condition.</li> </ul>	C. Accomplish grounding of electrical system by using insulated grounding conductor installed with feeders an panel to ground bus of served panel, grounding screw of receptacles, lighting fixture housing, light switch or means of grounding bushings on terminations at panelboards with installed number 12 AWG copper conduction
C. All surplus materials and debris resulting from this work shall be cleaned out and removed from site; this includes surplus excavated material.	
<ul> <li>PROTECTION</li> <li>A. The Contractor shall protect from damage during construction the work and materials of other trades as well as the electrical work and material. Electrical equipment stored and installed</li> </ul>	<ul> <li>3.08 EQUIPMENT IDENTIFICATION:</li> <li>A. Provide screwed-on engraved nameplates of black lamicoid with 0.75-inch high white lettering for main swite</li> </ul>
on the job site shall be protected from dust, water, or any other damage.	<ul><li>all relays, timers, terminal cabinets (including each section) and all special panels and consoles.</li><li>B. Provide identifying numbers for each breaker in all panelboards in a permanently attached (not pasted on) of the section of the section.</li></ul>
	<ul><li>C. Provide screwed-on engraved nameplates of black lamicoid with white 0.5-inch high lettering, identifying fur</li><li>D. Provide labels at each end of each pull cord for all empty conduits/raceways.</li></ul>
A. Standard Guarantee: Provide individual as well as overall guarantees for all work executed under this Contract or any extra work to be absolutely free of all defects of workmanship and materials for a period of two years from the date of filing of notice of completion and acceptance by Owner. Repair and make good all such defects and repair any damage to other work caused thereby which may occur during same period at no cost to the owner.	E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOA
<ul> <li>B. Indicate on Guarantee Form specific provisions required by individual specification sections. List all special requirements, extended periods, bonding, etc.</li> <li>C. Additional Guarantees: Provide additional guarantees (in excess of year(s) required by Standard Guarantee) where specifically required by pertinent Specification Sections.</li> </ul>	3.09 DEMOLITION:
D. Binder: Provide a binder with all guarantees placed in the order in which they occur in the project manual. Include an Index of Guarantees listing each specification section, specific	<ul> <li>Demolition Drawings are based on casual field observation and/or existing record documents. Report discre- installation.</li> </ul>
items covered and length of guarantee for each item.	B. Remove, relocate, and extend existing installations as necessary, to accommodate new construction and to using materials and methods compatible with existing electrical installations, or as specified.
<ul> <li>OPERATING TEST</li> <li>A. After the installation is complete, and at such time as the Engineer and other authorities having jurisdiction may request, the Contractor shall conduct an operating test for approval.</li> </ul>	<ul><li>C. Remove abandoned wiring to source of supply.</li><li>D. Remove exposed abandoned conduit and abandoned conduit above accessible ceiling finishes, unless note</li></ul>
ART 2 PRODUCTS	surfaces. If certain conduits and boxes are abandoned but not scheduled for removal, they shall be shown E. Disconnect and remove abandoned panelboards and distribution equipment.
	<ul> <li>F. Disconnect and remove electrical devices and equipment serving utilization equipment that has been remove</li> <li>G. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories.</li> </ul>
01 DESIGN REQUIREMENTS: A. Minimum Raceway Size:	H. Provide revised typed circuit directory in panelboards that have circuits removed.
<ol> <li>0.75 inch unless otherwise specified.</li> <li>1 inch for homeruns unless otherwise specified.</li> </ol>	<ul> <li>Repair adjacent construction and finishes damaged during demolition and extension work.</li> <li>J. Maintain access to existing electrical installations which remain active. Modify installation or provide access</li> </ul>
<ol> <li>1 inch for outside foundation line unless otherwise specified.</li> </ol>	K. Provide supplemental support for conduits that are routed through demolition area and are to remain. Supprequirements.
02 BUILDING WIRE:	<ul> <li>Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation.</li> <li>Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.</li> </ul>
<ul> <li>A. Product Description: Single conductor insulated wire.</li> <li>B. Conductor: Copper Stranded.</li> </ul>	<ul> <li>N. Remaining Circuits and Equipment: Reinstall existing electrical installations disturbed. Certain existing electrical installations. Where this condition occurs preserved and are essential for the operation of other remaining installations. Where this condition occurs preserved and are essential for the operation of other remaining installations.</li> </ul>
C. Insulation Voltage Rating: 600 volts. D. Insulation Temperature Rating: 90 degrees C.	<ul> <li>to retain service continuity. Installations shall be concealed in finished areas.</li> <li>O. Reconnect equipment being disturbed by renovation work and required for continue service to panel as indi</li> </ul>
E. Copper Building Wire in Conduit: Type THHN/THWN-2.	<ul> <li>P. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, e part of final project.</li> </ul>
F. Copper Underground in Conduit: Type XHHW-2.	Q. Install temporary wiring and connections to maintain existing systems in service during construction.
<ul> <li>WIRING CONNECTORS:</li> <li>A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as</li> </ul>	<ul><li>R. Remove, relocate, and extend existing installations to accommodate new construction.</li><li>S. Repair adjacent construction and finishes damaged during demolition and extension work.</li></ul>
<ul> <li>Beschpion: writing connectors appropriate for the approacion, suitable for use with the conductors to be connected, and listed as complying with 0L 400A-400B of 0L 400C as applicable.</li> <li>B. Connectors for Grounding and Bonding.</li> </ul>	T. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical ic accessible ceiling finishes. Cut embedded support elements flush with walls and floors.
<ul> <li>C. Wiring Connectors for Splices and Taps:</li> <li>1. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors.</li> </ul>	<ul><li>U. Clean and repair existing equipment to remain and/or to be reinstalled.</li><li>V. Protect and retain power to existing active equipment remaining.</li></ul>
	W. Cap abandoned empty conduit at both ends.

1. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs.

2. Copper Conductors Size 6 AWG and Larger: Use pre-insulated mechanical connectors or compression connectors.

D. Wiring Connectors for Terminations:

### 2. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified.

- 3. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than
  - ctors or compression connectors where connectors are required.

### ned for use with conductors without stripping insulation.

standard applications and 302 degrees F for high temperature applications; pre-filled with sealant and listed

### iguration suitable for connection to be made

ron with threaded fittings. Use insulated metallic bushings with lug where ground connections are required.

Box connectors shall have with insulated throat. Set screw type couplings

ches, etc. which are likely to require examination, adjustment or servicing while energized shall be field .16. Marking shall be a pre-printed label which references NFPA 70E.

## contrasting background color.

cturers of articles used furnish directions covering points not specified or shown.

### ppearing installation when completed.

uired for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or perly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made

## e with NECA Standard of Installation. Work shall be coordinated with other trades to avoid conflicts.

be made without additional cost to Owner. not pictorial) but shall be followed as closely as possible. Drawings and Specifications are for assistance and

## uired for anchorage for the Work of this Section: securely weld or bolt to metal framing. Wood blocking or

perly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made

## all surfaces, roadways, sod, walks, curbs, walls, existing underground installation, etc., cut by installations to

ricades, flares, and lanterns as required by the Safety Orders and local ordinances.

### g penetrating sleeves, piping, ductwork, conduit, and other items, requiring firestopping material and substrate involved, and as required for compliance with required fire ratings.

of 1 inch on both sides of building element.

### and to meet fire rating of structure penetrated.

trates fire rated surface, install firestopping product in accordance with manufacturer's instructions.

### of 1 inch on both sides of building element.

rated surfaces in occupied spaces. Occupied spaces include rooms with finished ceilings and where

### nical seal to size of conduit and tighten in place, in accordance with manufacturer's instructions.

s, hospital spaces, computer rooms, telecommunication rooms, and data rooms. Apply sealant to both sides

### ment, stored, and installed, from dust, water, or other damage.

## vided with an identified handle tie.

nductor installed with feeders and branch circuit conductors in conduits. Install from grounding bus of serving ng fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by number 12 AWG copper conductor to grounding bus.

high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, nently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. inch high lettering, identifying function, for all disconnect switches and starters.

## NEL-XXX fed from SWITCHBOARD-XXX", PANEL-XXX fed from TRANSFORMER-XXX", etc.

record documents. Report discrepancies to Owner and Architect/Engineer before disturbing existing

## nmodate new construction and to meet all requirements of these specifications. Extend existing installations

ssible ceiling finishes, unless noted otherwise on drawings. Cut conduit flush with walls and floors, and patch for removal, they shall be shown on the "As Built Drawings".

### n equipment that has been removed.

hangers, and other accessories. odify installation or provide access panel as appropriate.

## on area and are to remain. Supplemental support shall be added so that the conduit meets the support

s disturbed. Certain existing electrical installations may be located in walls, ceilings or floors that are to be Where this condition occurs provide a new extension of original circuits, raceways, equipment, and outlets

### continue service to panel as indicated on drawings or to nearest available panel. ved. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not

ers and supports, and electrical identification components, including abandoned components above

### X. Jackhammering

1. Jackhammering will be permitted only to a limited degree, and only with the prior written approval of the Owner. 2. Do not jack-hammer within 2-inches of reinforcing or structural steel to remain; remove final 2-inches of material with chipping gun.

### 3.10 INSTALLATION - CONDUCTORS:

- A. Route wire to meet Project conditions. B. Neatly train and lace wiring inside boxes, equipment, and panelboards.
- C. Identify and color code wire under wire color section. Identify each conductor with its circuit number or other designation indicated. D. Special Techniques--Building Wire in Raceway:
- 1. Pull conductors into raceway at same time.
- 2. Install building wire 4 AWG and larger with pulling equipment. E. Special Techniques - Wiring Connections:
- 1. Clean conductor surfaces before installing lugs and connectors.
- 2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. 3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor.
- 4. Install split bolt connectors for copper conductor splices and taps, 6 AWG and larger.
- 5. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller. 6. Install insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller.
- F. For stranded conductors, use crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under device screws
- G. Install terminal lugs on ends of 600-volt wires unless lugs are furnished on connected device, such as circuit breakers. H. Size lugs in accordance with manufacturer's recommendations terminating wire sizes. Install 2-hole type lugs to connect wires 4 AWG and larger to copper bus bars.
- I. For terminal lugs fastened together such as on motors, transformers, and other apparatus, or when space between studs is small enough that lugs can turn and touch each other, insulate for dielectric strength of 2-1/2 times normal potential of circuit.

### 3.11 WIRE COLOR: A. General:

- 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following:
- a. Black, red, and blue for circuits at 120/208 volts single or three phase.
- b. Orange, brown, and yellow for circuits at 277/480 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices, and boxes. Colors are as follows:
- a. Black, red, and blue for circuits at 120/208 volts single or three phase.
- b. Orange, brown, and yellow for circuits at 277/480 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number.
- C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase.

### E. Ground Conductors:

1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.

### 3.12 INSTALLATION - RACEWAY:

- A. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system. B. Do not install PVC conduit above ground.
- C. Conduits installed on top of roof or covered walk structure (on top or below) shall be rigid steel or IMC.
- D. All Conduits Shall Be Rigid Steel or IMC, except EMT may be used at the following locations:

### 1. In dry locations in furred spaces 2. In partitions other than concrete or solid masonry.

- 3. In exposed (above eight feet (8') excluding top of roof or covered walk structure (on top or below)) interior/ exterior locations and in electrical/ mechanical/ communications rooms made up with watertight compression type connectors and couplings. Connectors to outlets shall be insulated throat type with integral non-removable plastic insulator lining. E. PVC Conduit with Code Size Ground Wire may be Used in Soil or in Concrete under the following conditions:
- 1. Terminate with coated rigid steel elbows and short length of coated rigid steel conduits out of soil or concrete. 2. Install PVC conduit in sand or fine earth envelope of at least three inches (3") all around inside foundation line. Bends and elbows shall be PVC Type 80 conduit centered at
- 3. Underground PVC conduit runs outside foundation line shall be installed under the following conditions: a. Bends and ells shall be PVC Type 80 coupled with proper adapters. Conduit through foundation wall shall have one length of PVC Schedule 80 conduit centered at
- b. Lay runs straight. Make couplings watertight. c. Terminate conduit entering pull hole with manufactured end bells.
- d. Place approximately twelve inches (12") below finished grade and over primary and secondary service conduit duct line, a five (5) mil. brightly colored plastic tape not less than three inches (3") in width and suitably inscribed at not more than ten feet (10') on centers with a continuous metallic backing and a corrosion resistant one (1) mil.
- metallic foil core to permit easy location of the duct line. 4. Patch all coated conduit according to the manufacturer's recommendation. Completely coat all holidays and tool marks using paste recommended by manufacturer. Coat remaining exposed conduit threads with paste when installation is complete.

1. Install flat-head screws, clips, and straps to fasten raceway channel to surfaces, mount plumb and level. Install insulating bushings and inserts at connections to outlets and

2. Anchor raceway to structural members using screws. Supports shall be concealed. Space screws 24" maximum on center. Each run shall have a minimum of (2) screws.

END OF SECTION

SECTION 26 56 00 EXTERIOR LIGHTING

### F. Unless otherwise specified, all raceway shall be installed concealed. Raceway may be run exposed on unfinished walls, in attic spaces, in electrical rooms and when routed to surface

- panels, cabinets or gutters. G. Arrange raceway supports to prevent misalignment during wiring installation.
- H. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
- I. Group related raceway; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional raceways. J. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports
- K. Do not attach raceway to ceiling support wires or other piping systems.
- L. Construct wireway supports from steel channel.
- M. Route exposed raceway parallel and perpendicular to walls. N. Route raceway installed above accessible ceilings parallel and perpendicular to walls.
- O. Route conduit in and under slab from point-to-point.
- P. Maintain clearance between raceway and piping for maintenance purposes. Q. Maintain 12-inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F.

W. Avoid moisture traps; install junction box with drain fitting at low points in conduit system.

4. Install insulating bushings and inserts at connections to outlets and corner fittings.

6. Coordinate exact routing with Architect prior to installation.

B. Test each individual circuit at panel with equipment connected for proper operation.

C. Test each individual receptacle device for proper polarity and grounding.

D. Test each ground fault circuit interrupter for proper operation.

Y. Install suitable pull string or cord in each empty raceway except sleeves and nipples.

Z. Install suitable caps to protect installed conduit against entrance of dirt and moisture.

U. Install conduit hubs to fasten conduit to sheet metal boxes in damp and wet locations and to cast boxes.

X. Install fittings to accommodate expansion and deflection where raceway crosses seismic and expansion joints.

and other items as required for a complete, closed and professionally installed installation.

1. ASCE 7-16 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures.

1. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized Carbon Steel Wire.

2. IEEE C62.41.2 - Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits

IES LM-80 - Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays, and Module

1. IES LM-63 - IESNA Standard File Format for Electronic Transfer of Photometric Data and Related Information.

2. IES LM-79 - Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products.

2. NEMA C78.377 - Electric Lamps - Specifications for the Chromaticity of Solid-state Lighting Products.

1. Indicate dimensions and components for each luminaire that is not a standard product of the manufacturer.

1. CAL TITLE 24 P3 - California Electrical Code (NFAP 70 with California Amendments).

F. National Electrical Contractors Association/Illuminating Engineering Society of North America:

1. NECA 1 - Standard for Good Workmanship in Electrical Construction.

3. NECA/IESNA 501 - Standard for Installing Exterior Lighting Systems.

2. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products.

1. NFPA 70 - National Electrical Code with California Amendments.

elevation to obtain specified foundation height.

C. California Building Standards Code (California Code Regulations, Title 24):

R. Cut conduit square using saw or pipe cutter; de-burr cut ends.

in fitting. Allow joint to cure for minimum 20 minutes.

S. Bring conduit to shoulder of fittings; fasten securely.

metal conduit larger than 2-inch size.

outlets and corner fittings.

3. Mount plumb and level.

3.13 TESTING AND ADJUSTING:

PART 1 - GENERAL

A. Section includes:

1.2 REFERENCE STANDARDS

1. Exterior luminaires.

2. Poles and accessories.

3. Luminaire accessories

A. American Society of Civil Engineers

B. American Society for Testing and Materials

2. CAL TITLE 24 P6 - California Energy Code.

IEEE C2 - National Electrical Safety Code.

D. Institute of Electrical and Electronic Engineers:

E. Illuminating Engineering Society

G. National Fire Protection Association:

1. UL 1598 - Luminaires.

H. Underwriters Laboratories:

1.3 ADMINISTRATIVE REQUIREMENTS

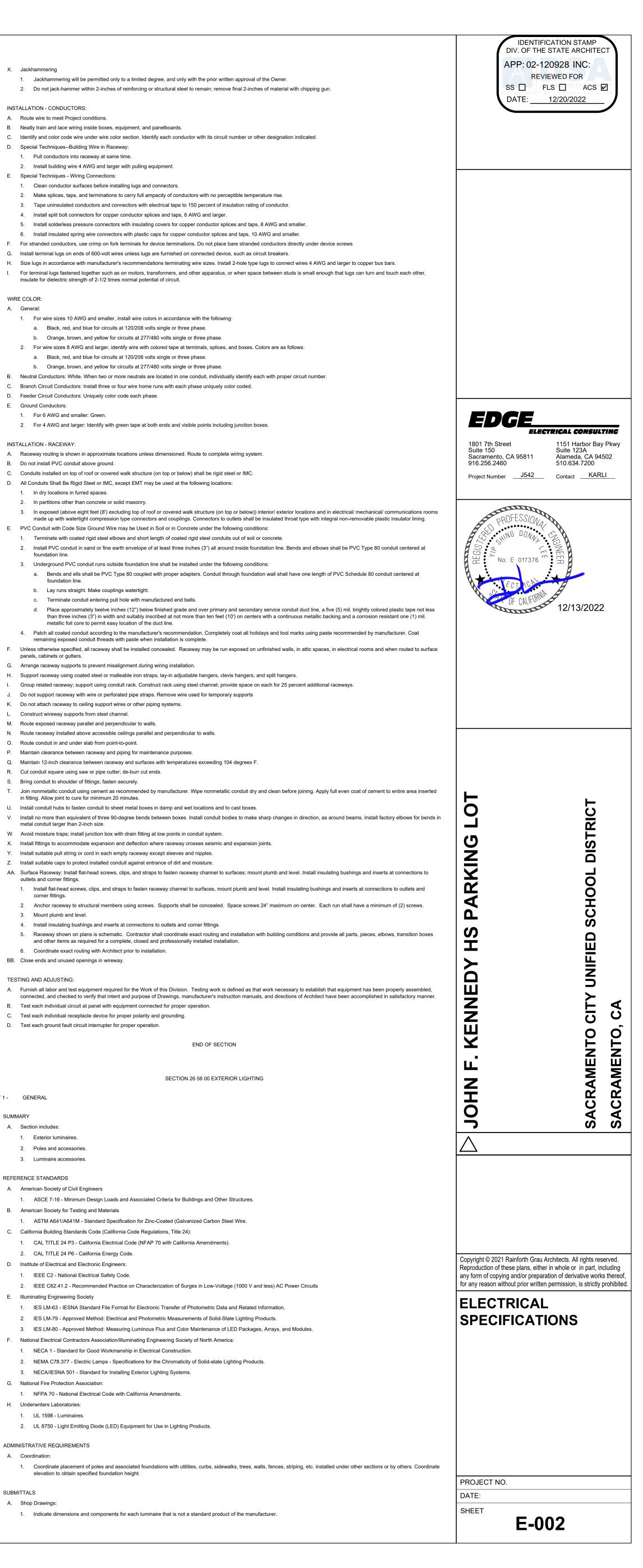
A. Coordination:

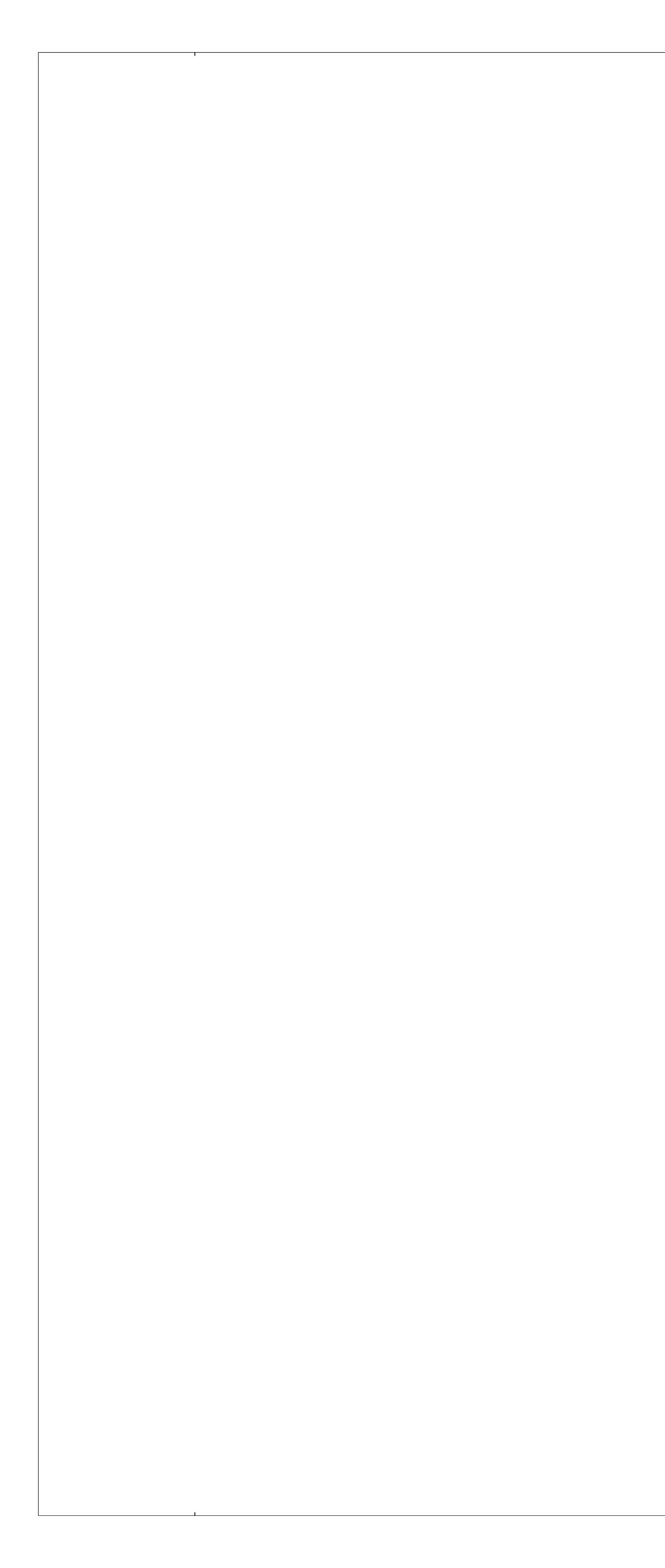
A. Shop Drawings:

1.4 SUBMITTALS

1.1 SUMMARY

BB. Close ends and unused openings in wireway.





### 2. Provide photometric calculations where luminaires are proposed for substitution. 3. Provide structural calculations for each pole.

### B. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, weight, effective projected area (EPA), and installed accessories; include model number nomenclature clearly marked with all proposed features.

### 1. LED Luminaires:

- a. Include estimated useful life, calculated based on IES LM-80 test data.
- b. Include IES LM-79 test report.
- 2. Provide electronic files of photometric data certified by a National Voluntary Laboratory Accreditation Program (NVLAP) lab or independent testing agency in IES LM-63 standard format upon request.
- 3. Ballasts and LED Drivers: Include wiring diagrams and list of compatible lamp configurations.
- 4. Lamps: Include rated life, color temperature, color rendering index (CRI), and initial and mean lumen output.

5. Poles: Include information on maximum supported effective projected area (EPA) and weight for the design wind speed. C. Certificates for Poles and Accessories: Manufacturer's documentation that products are suitable for the luminaires to be installed and comply with designated structural design criteria. D. Certification that luminaire, ballast or LED driver, and lamps comply with CAL TITLE 24 P6 requirements.

### E. Field Quality Control Reports.

- 1. Include test report indicating measured illumination levels.
- examination, preparation, installation, and starting of product. G. Operation and Maintenance Data: Instructions for each product including information on replacement parts.
- H. Maintenance Materials: Furnish the following for LLNS's use in maintenance of project. 1. Extra Lamps: Ten percent of total quantity installed for each type, but not less than two of each type. 2. Extra Ballasts: Two percent of total quantity installed for each type, but not less than one of each type.
- 3. Touch-Up Paint: 2 gallons, to match color of pole finish. I. Project Record Documents: Record actual connections and locations of pole foundations, luminaires, and any pull or junction boxes.

### 1.5 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70 with California Amendments. B. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.
- 1.6 DELIVERY, STORAGE, AND HANDLING A. Receive, handle, and store products according to NECA/IESNA 501 and manufacturer's written instructions. B. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

### 1.7 WARRANTY

- A. Provide five-year manufacturer warranty for all LED luminaires, drivers, material, fixture finish, and workmanship. On-site warranty includes transportation, removal, and installation of new products.
- 1. Finish warranty includes warranty against failure and against substantial deterioration such as blistering, cracking, peeling, chalking, or fading.
- B. Provide luminaire useful life certificate.

PART 2 - PRODUCTS

2.1 LUMINAIRE TYPES A. Furnish products as indicated in luminaire schedule included on the drawings.

### 2.2 LED LUMINAIRES

- B. Provide products of the same type by the same manufacturer. C. Provide products that comply with requirements of NFPA 70 with California Amendments, CAL TITLE 24 P3, and CAL TITLE 24 P6.
- D. Provide products that are listed and labeled as complying with UL 1598, where applicable.
- E. Provide products that comply with the seismic requirements of ASCE 7-16.
- F. Provide products listed, classified, and labeled as suitable for the purpose intended.
- position, energize, and protect the lamp and distribute the light.
- H. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, poles, foundations, supports, trims, and accessories as necessary for a complete operating system.
- I. Provide products suitable to withstand normal handling, installation, and service without damage, distortion, corrosion, fading, or discoloring.
- J. Provide products with a BUG rating of U0-G3 or better with a maximum rated wattage of 40 W.
- K. Provide luminaires listed and labeled as suitable for wet locations unless otherwise indicated.
- L. LED Luminaires:
- 1. Components: UL 8750 recognized or listed as applicable.
- 2. Tested in accordance with IES LM-79 and IES LM-80 prior to shipment from the factory.
- 3. LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

### 2.3 POWER SUPPLY UNITS (DRIVERS)

- A. Manufacturers: 1. Where a specific manufacturer or model is indicated elsewhere in the luminaire schedule or on the drawings, substitutions are not permitted unless explicitly indicated.
- B. LED Drivers:
- 1. Minimum Efficiency: Provide drivers complying with current federal and CAL TITLE 24 P6 efficiency standards for ballasts and not less than 85 percent efficiency. 2. Drive current to each individual LED must not exceed the current limit specification of the LED manufacturer.
- 3. Rated to operation between ambient temperatures of 20 degrees F and 104 degrees F.
- 4. Designed to operation on the voltage system to which they are connected, typically ranging from for 120 to 480 V.
- 5. Operating Frequency: 60 Hz
- 6. Power Factor (PF): 0.90, minimum
- 7. Total Harmonic Distortion (THD): 20 percent, maximum
- 8. Must meet requirements of 47 CFR 15, class B
- 9. Control Compatibility: Fully compatible with the lighting controls to be installed.
- 10. Power Supply: Mounted integral to the luminaire. Remote mounting of power supply is prohibited. 11. Equipped with over-temperature protection circuit that turns lamp off until normal operating temperature is achieved.
- C. Dimmable LED Drivers:
- 1. Dimming Range: Continuous dimming from 100 percent to 10 percent relative light output unless dimming capability to lower level is indicated, without flicker.
- 2. Control Compatibility: Fully compatible with the dimming controls to be installed.

- 2.4 LAMPS
- A. Lamps General Requirements:
- 1. Unless explicitly excluded, provide new, compatible, operable lamps in each luminaire.
- 2. Verify compatibility of specified lamps with luminaires to be installed. Where lamps are not specified, provide lamps per luminaire manufacturer's recommendations. 3. Minimum Efficiency: Provide lamps complying with all current applicable federal and CAL TITLE 24 P6 lamp efficiency standards.
- determined to be inconsistent in perceived color temperature. 5. Light Distribution Pattern: As indicated on drawings.
- B. LED Lamps:
- 1. Correlated Color Temperature (CCT): 4000 degrees K, nominal, in accordance with NEMA C78.377
- 2. Color Rendering Index (CRI): Greater than or equal to 70 for 4000-degree K light sources.

### 2.5 POLES

- A. All Poles:
- 1. Provide poles and associated support components suitable for the luminaire(s) and associated supports and accessories to be installed.
- 2. Structural Design Criteria:

### a. Comply with AASHTO LTS.

- b. Wind Load: Include effective projected area (EPA) of luminaire(s) and associated supports and accessories to be installed.
- 1) Design Wind Speed: 105 miles per hour, with gust factor of 1.3.
- c. Dead Load: Include weight of proposed luminaire(s) and associated supports and accessories.
- d. Include structural calculations demonstrating compliance with submittals. 3. Material: Anodized aluminum, unless otherwise indicated.
- 4. Shape: Round straight, unless otherwise indicated.
- a. Parking Lots and Roadways: 5-inch square. 5. Pole Length:

### a. As indicated on drawings.

- 6. Finish: Black, unless otherwise indicated.
- 7. Mounting: Install on concrete foundation, height as indicated on the drawings, unless otherwise indicated.
- 8. Unless otherwise indicated, provide with the following features/accessories: a. Handhole, 10-inch by 17-inch size.
- b. Anchor bolts with leveling nuts or leveling shims.
- c. Ground lug accessible from handhole. B. Metal Poles: Provide ground lug, accessible from handhole.

### 2.6 CONTROLS

- A. Provide a control system interface within each luminaire to provide control by photocell, lighting contactor, hand-off, auto switch, and bypass switch or lighting control panel.
- B. Photocells: 1. Designed to fail in the ON position
- 2. Provide hermetically sealed light sensor type.
- 3. Provide time delay to prevent accidental switching from transient light sources.
- 4. Provide surge protection.

### 2.7 ACCESSORIES

- A. Stems for Suspended Luminaires: Steel tubing, minimum 1/2" size, factory finished to match luminaire or field-painted as directed. B. Suspension Wire for Suspended Luminaires: Sized to support the maximum load, but not smaller than 12-gauge. C. Sway Bracing: Seismic restraint cables.
- PART 3 EXECUTION

- 3.1 EXAMINATION
- A. Verify that field measurements are as indicated.
- Amendments.
- C. Verify that suitable support frames are installed where required. D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.

F. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection,

2. Material warranty includes power supply units (drivers) and replacement with more than 10 percent of LED sources in any lightbar or subassembly are defection or non-starting.

A. Where a specific manufacturer or model is indicated elsewhere in the luminaire schedule or on the drawings, substitutions are not permitted unless explicitly indicated.

G. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, ballasts or lamp drivers, reflectors, lenses, housings, and other components required to

D. LED Luminaire Surge Protection: Provide surge protection integral to luminaire to meet C low waveforms as defined by IEEE C62.41.2, scenario 1, location category C.

4. Color Temperature Consistency: Unless otherwise indicated, for each type of lamp furnish products which are consistent in perceived color temperature. Replace lamps that are

3. Color Consistency: Manufacturer must utilize a maximum 4-step MacAdam ellipse binning tolerance for color consistency of LEDs used in luminaires.

B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70 with California

3.2 EXISTING WORK

E. Verify that conditions are satisfactory for installation prior to starting work.

A. Disconnect and remove abandoned exterior luminaries. B. Extend existing exterior luminaire installations using materials and methods compatible with existing installations, or as specified. C. Clean and repair existing exterior luminaries to remain or to be reinstalled.

3.3 INSTALLATION

A. Coordinate locations of outlet boxes as required for installation of luminaires provided under this section.

- B. Install products in accordance with manufacturer's instructions. C. Install luminaires in accordance with NECA/IESNA 501.
- D. Provide required support and attachment.

E. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires. F. Recessed Luminaires:

- 1. Install trims tight to mounting surface with no visible light leakage.
- 2. Luminaires Recessed in Fire-Rated Ceilings: Install using accessories and firestopping materials to meet regulatory requirements for fire rating. G. Wall-Mounted Luminaires: Unless otherwise indicated, specified mounting heights are to center of luminaire.

1. Small Buildings and Trailers: Mount bottom of fixture 8-feet, 0-inches above finished grade.

2. Large Buildings: Mount bottom of fixture 12-feet, 0-inches above finished grade. H. Pole-Mounted Luminaires:

1. Maintain the following minimum clearances:

- a. Comply with IEEE C2.
- b. Comply with utility company requirements. 2. Foundation-Mounted Poles:

a. Provide cast-in-place concrete foundations for poles unless otherwise indicated.

- 1) Install anchor bolts plumb per template furnished by pole manufacturer.
- 2) Position conduits to enter pole shaft. b. Install foundations plumb.
- c. Install poles plumb, using leveling nuts as required to adjust to plumb.
- d. Tighten anchor bolt nuts to manufacturer's recommended torque.
- e. Install non-shrink grout between pole anchor base and concrete foundation, leaving small channel for condensation drainage. f. Install anchor base covers or anchor bolt covers as indicated.
- Grounding:
- a. Bond luminaires, metal accessories, metal poles, and foundation reinforcement to branch circuit equipment grounding conductor. b. Provide concrete-encased electrode with the following characteristics:
- 1) Minimum 20-feet of unspliced AWG #4 bare copper wire with minimum 2-inches of concrete encasement that is in direct contact with earth.
- 2) Exothermic welded connection to rebar system.
- 3) Connect to grounding lug inside pole
- 4. Install separate service conductors, 12 AWG copper, from each luminaire down to handhole for connection to branch circuit conductors. 5. Provide dedicated handhole for each pole.
- I. Install accessories furnished with each luminaire.
- J. Bond products and metal accessories to branch circuit equipment grounding conductor.

3.4 FIELD QUALITY CONTROL

- B. Operate each luminaire after installation and connection. Inspect for improper connections and operation.
- C. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts.
- D. Measure illumination levels to verify conformance with performance requirements. E. Take measurements during night sky, without moon or with heavy overcast clouds effectively obscuring moon.
- 3.5 ADJUSTING A. Aim and adjust luminaries to provide illumination levels and distribution as indicated on Drawings.
- B. Luminaires with Field-Rotatable Optics: Position optics according to manufacturer's instructions to achieve lighting distribution as indicated.

3.6 CLEANING

A. Clean photometric control surfaces as recommended by manufacturer. B. Clean finishes and touch up damage.

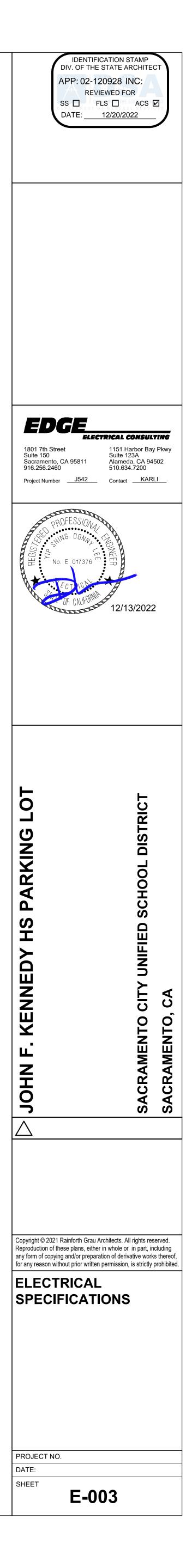
## 3.7 PROTECTION OF FINISHED WORK

A. Relamp luminaries having failed lamps at Substantial Completion.

B. Replace ballast and drivers that have failed at Substantial Completion.

END OF SECTION 26 56 00

# A. Inspect each product for damage and defects.



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					-		-	tructed nonresidential, high-rise residential and entries to demonstrate compliance per <u>§141.0(a)</u> or
<u>141.0(b)2P</u> for altera			to ciccum		in these bee	upuncies win uso i		
-		dy High School Parki				Report Pag	e:	Page 1 of
roject Address: 6715	Gloria D	Drive, Sacramento, CA	95831			Date Prepa	ired:	12/7/20
A. GENERAL INFORM	VATION	l						( ) (
01 Project Location	(city)		9	Sacramento	0.	2 Occupancy Type	s Within Projec	t:
Office		Retail		Warehouse		Hotel/ Motel	🖌 Sch	nool Support Areas
Parking Garage		High-Rise Reside	ntial [	Relocatable		] Healthcare Facilit	ties 🔽 Oth	her (Write In): Parking Lot
B. PROJECT SCOPE								Contraction of the second seco
Table Instructions: Inc	lude anv	electrical service sys	tems that	are within the scope	e of the per	mit application.		
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								Demand Response Controls
Electrical Service Designation/ Description		S	Scope of Work <sup>1</sup>		Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) <sup>2</sup>	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections <u>§120.2, §130.</u> and <u>§130.3</u> and compliance documents NRCC- MCH, NRCC-LTI and NRCC-LTS will indicate when
Branch ckt panels HM, HD, HE		HE Add/Alt to fee	Add/Alt to feeders and branch circuits only					demand response controls are required.
FOOTNOTES: Adding <sup>2</sup> Applicable if the utili C. COMPLIANCE RES Table Instructions: If t	ty compo	any is providing a me	tering sys	tem that indicates ir	nstantaneo	us kW demand and	l kWh for a utili	ty-defined period.
01		02		03		04		05
Service Electrical Metering AND <u>§130.5(a)</u>		Separation for Monitoring <u>§130.5(b)</u>	AND	Voltage Drop <u>§130.5(c)</u>	AND	Controlled Receptacles <u>§130.5(d)</u>		Compliance Results
(See Table F)	1	(See Table G)	1	(See Table H)	-	(See Table I)		
	AND		AND	Yes	AND			COMPLIES

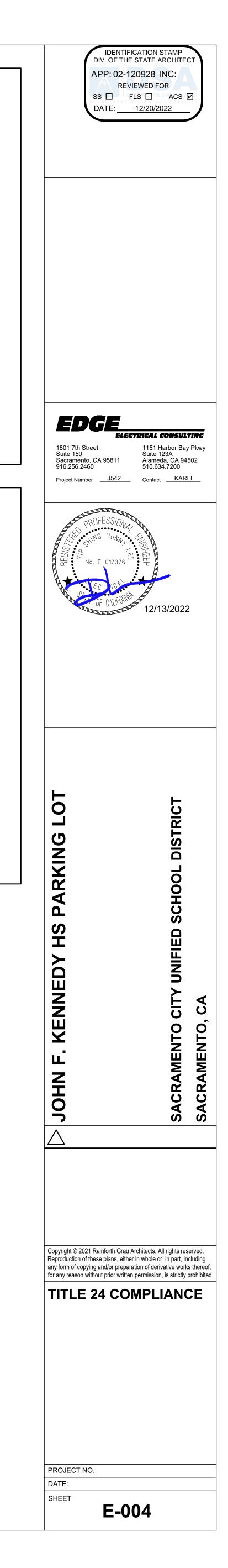
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<b>D. EXCEPTIONAL CONDITIONS</b>						?
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lo exceptional conditions apply to	o this project.					
. ADDITIONAL REMARKS						?
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. SERVICE ELECTRICAL METER	ING					?
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feeders and branch circuits to dem 01 Electrical Service Designation/ Description	te this table for entirely new nonstrate compliance with y Combined Voltage Drop Circuit Conductors	w or complete replacement e. <u>§130.5(c)</u> . For alterations, or 02 on Installed Feeder/Branch Compliance Method Permitted by CA Elec	03 O3 Location of Voltage Drop Calculations <sup>1</sup>	nstrate compliance per <u>§141.0(b)2Pi</u> 04 Sheet Number for Voltage Drop Calculations in Construction Documents	iii. 0 Field In	)5 Ispector
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roject Addr	ess: 6715	Gloria Drive, Sacramento, CA 95831	Date Prepared:		12/7/2
1		2019_compliance_documents/Nonresidential_Documents/NRCI/		Field In	spector
YES	NO	Form/Tit	tie	Pass	Fail
۲	0	NRCI-ELC-01-E - Must be submitted for all buildings.			

NRCC-ELC-E (Created 01/20)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name: John F Kenned		Report Page:	Page 4 of 4
Project Address: 6715 Gloria Dr	ive, Sacramento, CA 95831	Date Prepared:	12/7/2022
DOCUMENTATION AUTHOR	'S DECLARATION STATEMENT		2
certify that this Certificate of C	Compliance documentation is accurate and cor	mplete.	
Documentation Author Name:	Karli Ching	Documentation Author Signature: Khilling	
Company:	EDGE Electrical Consulting, Inc.	Signature Date: 12/13/2022	
Address:	1801 7th Street, Suite 150	CEA/ HERS Certification Identification (if applicable)	:
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards



January 2020

January 2020

RCC-LTO-E (Created 11/19) ERTIFICATE OF COMPLIANCE his document is used to demonstrate com						C	ALIFORNIA ENERGY CO	ommission 🌠
								NRCC-LTC
and and Manager	npliance wi	th requirement	ts in <u>§110.9</u> , <u>§130.0</u>	, <u>§130.2, §140.7</u> , ar	nd <u>§141.0(b)2L</u> for a	utdoor lighting sc	opes using the pr	escriptive path
roject Name: John F Kennedy High Sch	2	100			t Page:			Page 1 o
roject Address: 6715 Gloria Drive, Sacrar	mento, CA	95831		Date F	repared:			12/7/20
A GENERAL INFORMATION								<u> </u>
01 Project Location (city)		Sacram	nento	04 Total Illumi	nated Hardscape Ar	rea (ft <sup>2</sup> )	289,453	,
02 Climate Zone		12						
03 Outdoor Lighting Zone per <u>Title 24, P</u>	art 1 §10-:	114 or as desig	nated by Authority	Having Jurisdiction	(AHJ):			
LZ-0: Very Low - Undeveloped Parklan		: Moderate - R			Aust be reviewed by	V CA Energy Comn	nission for Approv	val
LZ-1: Low - Developed Parkland		or store and an arrange of the	ligh - Urban Areas			,		
3. PROJECT SCOPE		~	, mes	•				(
able Instructions: Include any outdoor lig	hting syste	ms that are wi	thin the scope of th	e permit applicatio	n and are demonstr	ating compliance	using the prescrip	tive path
utlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alter			, ,	an <b>f</b> aarde en een <b>f</b> aar een een		5 1	5,,,	CLUB F. D. D. D. C.
/ly project consists of:								
01					02			
✓ New Lighting System		Must Comply	with Allowances fro	om <u>§140.7</u> .				
Altered Lighting System		ls your alterat	ion increasing the c	connected lighting I	oad (Watts)?		• Yes	() No
03			04			05	5	
% of Existing Luminaires Being Alte	red <sup>1</sup>	Sum Total o	of Luminaires Being	Added or Altered		Calculation	n Method	
		·	, cummunes being			within the Scope	of the Permit App	olication) x 100
C. COMPLIANCE RESULTS	-	S NOT COMPLY	" or "COMPLIES wit	h Exceptional Cond		e D. for guidance.		olication) x 100
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Project Address: 6715 Gloria D	rive, Sacrar	mento, CA	95831		
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Area Description			Shut-Off <u>§130.2(c)1</u>		
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East Parking Lot		Astr	onomical Time	r	
*NOTES: Controls with a * requ EX: Not permitted by health & s					
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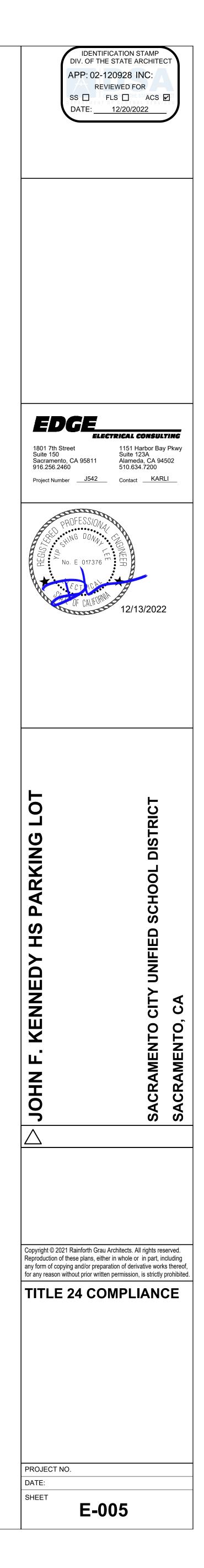
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	ie: John F Kennedy	C21	100			Report Page:					e 2 of 6			Kennedy High School Park	100			Report P	152				Page
Ad	ress: 6715 Gloria Dri	ve, Sacramento,	CA 95831			Date Prepared:				12/	7/2022	Project A	ddress: 6/15 G	loria Drive, Sacramento, C	A 95831			Date Pre	pared:				12/7
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												Item Tag	Description	Mounting Height from	Allowable	Rating	Lighting Type	Allowable	Rating	Mounting Height	Allowable	Rating	Pass
														Property Line <sup>1</sup>	Backlight Rating <sup>3</sup>	Per Design		Backlight Rating <sup>3</sup>	Per Design	from Property Line	e <sup>1</sup> Glare Rating <sup>3</sup>	Per Design	
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ng lu od pe	ninaires remaining or • <u>§141.0(b)2L</u> (ie Table nclude existing lumin	being moved wi e N has expande	thin the spaces d for input), inc	covered by the pe lude only new lum	rmit application inaires being ins	n in the Table below	w. For altered i	lighting system	ns using the Existi	sting Power	,	A2	Pole Light Pole Light	line > 2 MH from property	No Limit No Limit	B3 B3	Area Lighting Area Lighting	U0 		property line > 2 MH from	G3 G3	G3 G2	
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n Tag		escription	luminaire <sup>1,2</sup>	determined	uminaires <sup>2</sup>		<u>§140.7(a)</u>		output <u>§130.2(b)</u> <sup>4</sup>	Pass	Fail	<u>§130.2(b</u>	<u>)</u> .	er number than the 'Max A									÷
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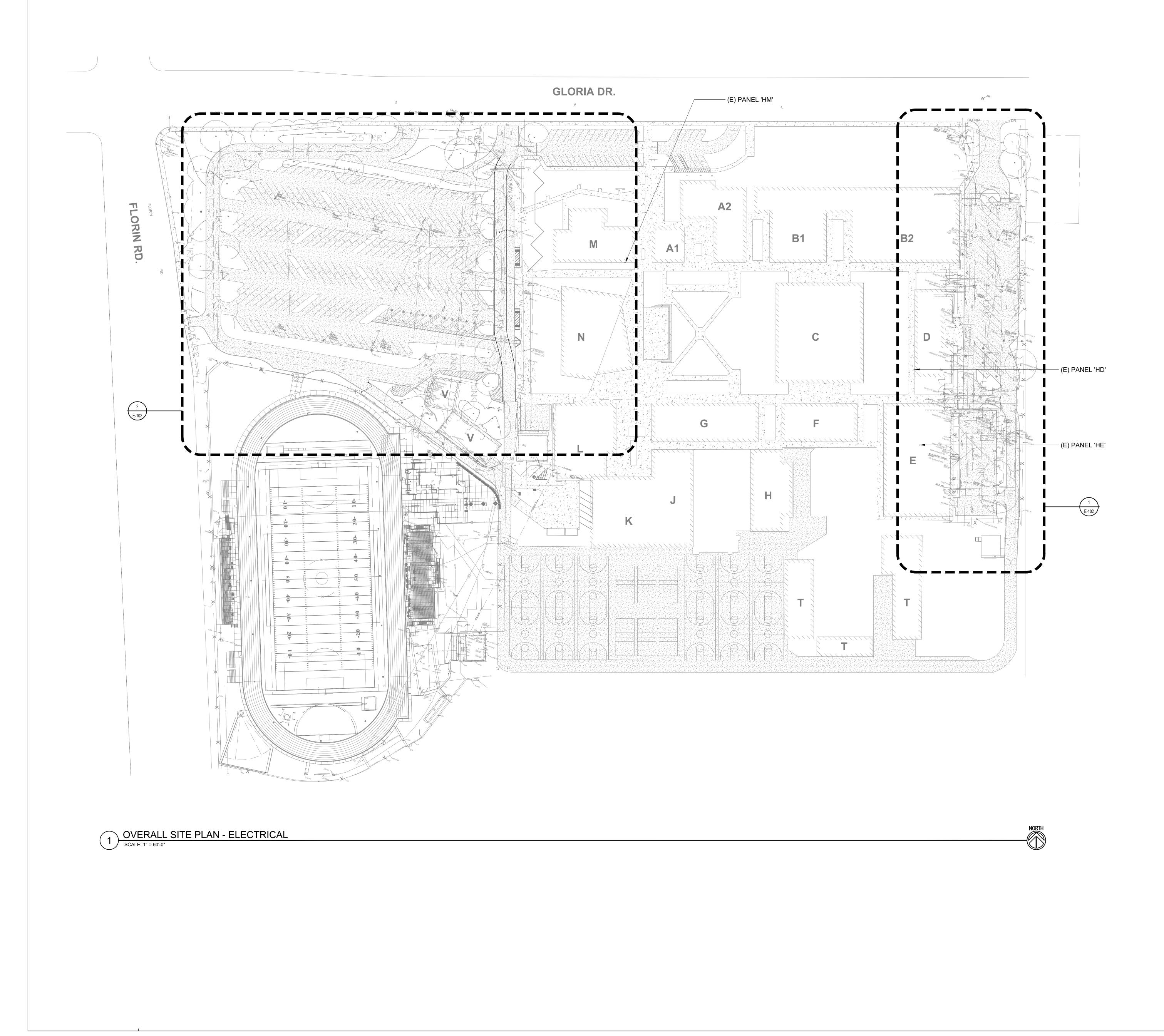
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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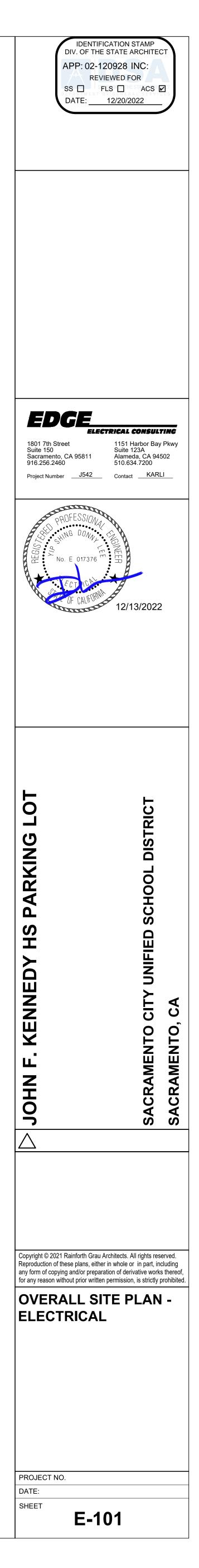
ERTIFICATE OF COMPLIANCE								<u> </u>	ALIFORNIA ENERG		NRCC-LTO-
	dy High School Parking	; Lot		Report	Page:						Page 4 of
roject Address: 6715 Gloria D	rive, Sacramento, CA	95831		12	epared:						12/7/202
01		02		03				04			05
Area Description		Shut-Off §130.2(c)1		Auto-Schedule §130.2(c)2				ion Senso . <u>30.2(c)3</u>	or -		nspector
										Pass	Fail
West Parking Lot		onomical Timer		Yes				Yes Yes			+
East Parking Lot			- 1					res			
NOTES: Controls with a * requ X: Not permitted by health & s				is achieved.							
			<u></u> ,								
LIGHTING POWER ALLOW	ANCE (per §140.7)										<b></b>
able Instructions: Please comp		as using the				01					
, Ilowance calculations per <u>§14</u>				Ι	"Use it o	r lose it"	Allowan	ces (seleo	t all that apply	v)	
s per <u>Table 140.7-A</u> while "Use			General							,,	
able 140.7-B. Indicate which a				Per Applicati		Sales Froi	ntage		amental	Per Sn	ecific Area
xpand sections for user input.			Allowance			Sales ITU				reisp	ecific Area
he "Use it or lose it" allowance or lose it" allowance.	es shall not qualify for		Table I (below)	Table J	_	Table K		Tabl		Tabl	o M
alculated General Hardscape	Lighting Power Allows		• •	Table J		Table K		Tabi	e L	Tabi	
		04	<u>0.7-A</u> (LZ Z & 3)	06	07		08		09		10
02	05		US Vattage Allowance		07			o Ilowance		Tat	al General
Area Description	Surface Type	Illuminated	Allowed Density		Perim				Linear Allowar		al General VA + LWA
Alea Description	Surface Type	Area (ft <sup>2</sup> )	(W/ft <sup>2</sup> )	(Watts)	Length		Allowed (W/		(Watts)		(Watts)
	Asphalt	226,295	0.025	5,657.375	1,86	2 2	0.2	~ ~	465.25		122.625
West Parking Lot	rispitate			1,578.95	1,62		0.2		406.75		
West Parking Lot East Parking Lot	Asphalt	63.158	0.025		_,						1.985.7
West Parking Lot East Parking Lot	Asphalt	63,158	0.025	1,378.33			0.2		400.75		1,985.7
	Asphalt	63,158	0.025	1,378.33	Initial	Nattage	10042	_30	102 dollandi (24		
	Asphalt	63,158	0.025	1,378.33			Allowan	ce for En	tire Site (Watt	s):	350
	Asphalt	63,158	0.025	1,378.73			Allowan	ce for En	102 dollandi (24	s):	
East Parking Lot		63,158	0.025	1,378.33			Allowan	ce for En	tire Site (Watt	s):	350
		63,158	0.025	1,378.33			Allowan	ce for En	tire Site (Watt	s):	350

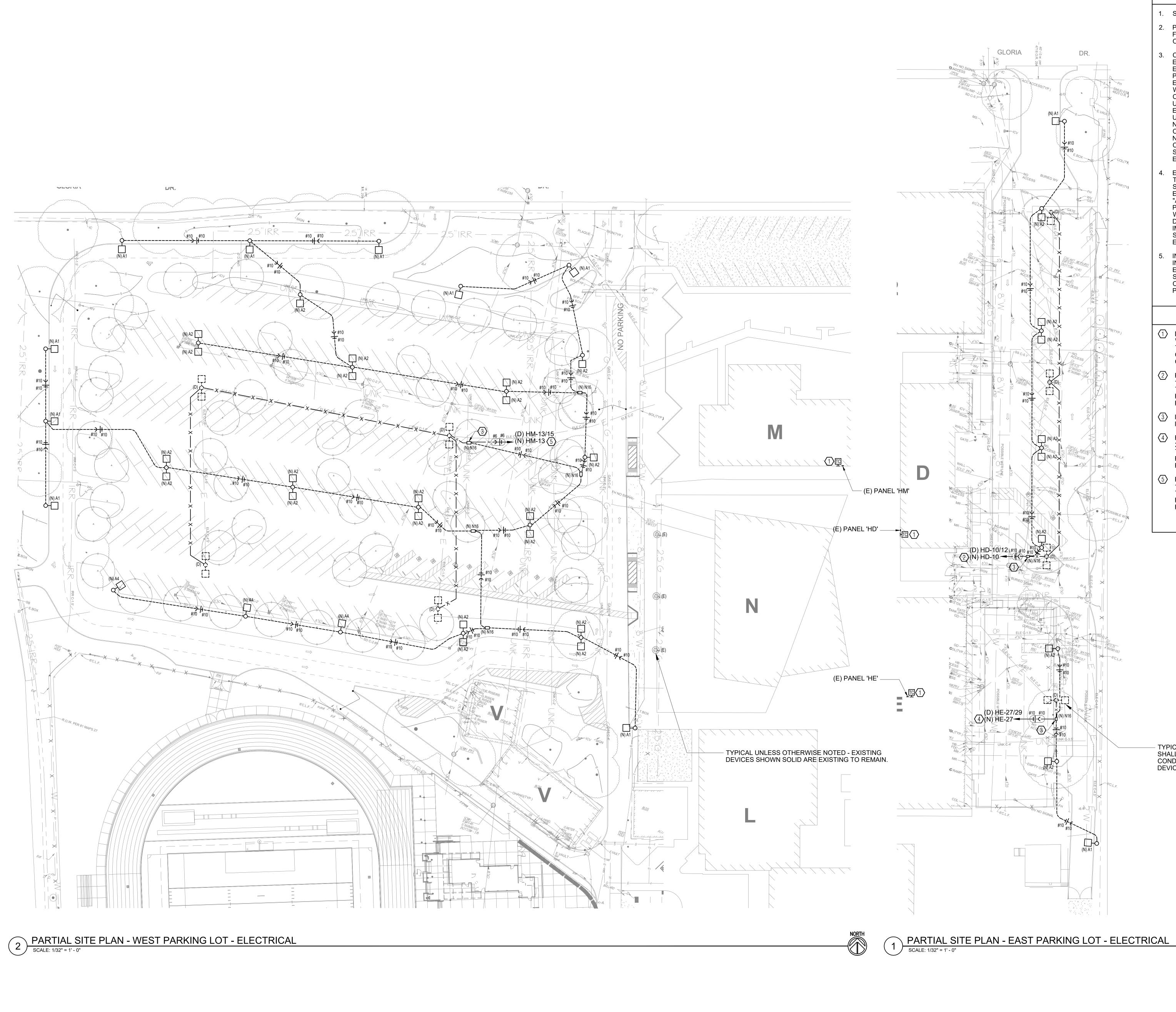


November 2019









## SHEET NOTES

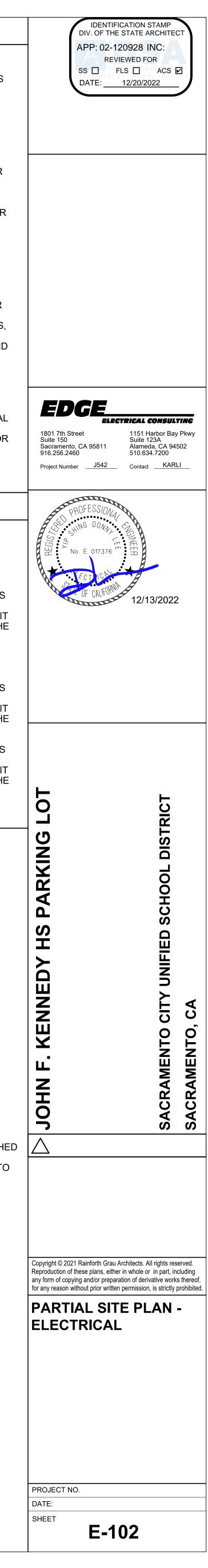
- 1. SEE OVERALL SITE PLAN FOR (E) PANEL LOCATION(S).
- 2. PROVIDE TRAFFIC RATED (H/20 LOAD) COVER AND BOXES FOR ALL PULL BOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC, AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY AN OTHER CONTRACTS. CONTRACTOR SHALL PERFORM AN UNDERGROUND SURVEY PRIOR TO EXCAVATION. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- 4. EXISTING UNDERGROUND UTILITIES ARE PRESENT, BUT THEIR EXACT LOCATION ARE NOT KNOWN. CONTRACTOR SHALL LOCATE AND PROTECT BEFORE TRENCHING OR EXCAVATING IN ANY AREA. CONSULT UTILITY COMPANIES, "AS-BUILT" DRAWINGS, AND SCHOOL MAINTENANCE PERSONNEL FOR LOCATION OF EXISTING UNDERGROUND WORK. IF EXISTING PIPING OR UTILITIES ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR IMMEDIATELY AT OWN EXPENSE. NEW UNDERGROUND SHALL BE MODIFIED AS NECESSARY TO CONFORM TO EXISTING CONDITIONS.
- 5. INFORMATION GIVEN, CONCERNING EXISTING ELECTRICAL INSTALLATION IS AS EXACT AS COULD BE SECURED, BUT EXTREME ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDS TO CONFIRM CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED

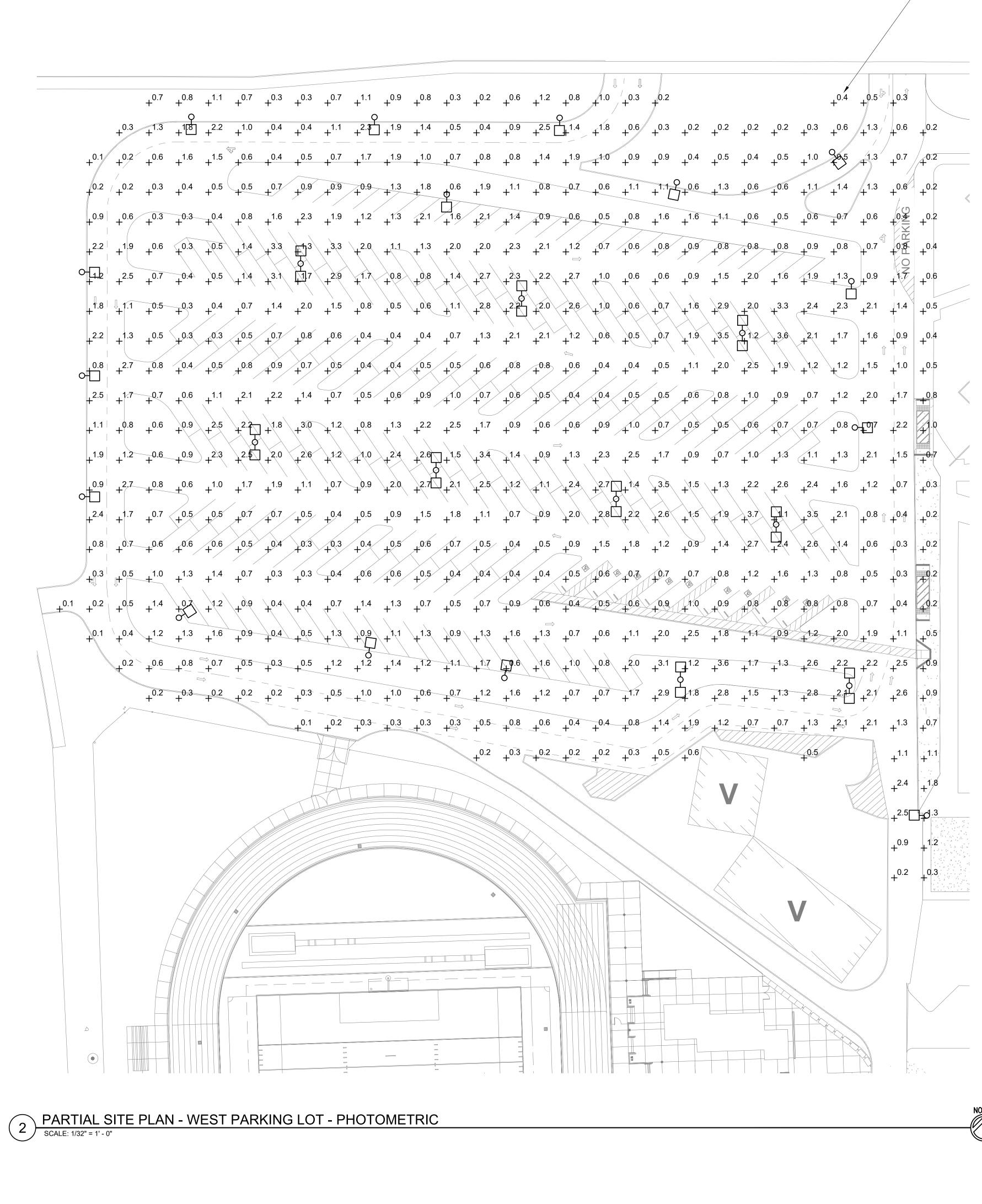
## NUMBERED NOTES

- 1 DEMOLISH (E) TIME CLOCK AND CONTACTOR. REPLACE WITH (N) TIME CLOCK FOR LED LIGHTS. FEED (N) LIGHTS THROUGH (N) TIME CLOCK. RECONNECT (E) 120-VOLT CIRCUIT FROM DEMOLISHED TIME CLOCK FOR INPUT TO CIRCUIT TO (N) TIME CLOCK.
- 2 REMOVE (E) 20-AMP, 2-POLE CIRCUIT BREAKER AT POLES 10/12. PROVIDE (N) 20-AMP, 1-POLE CIRCUIT BREAKER IN THE PLACE OF POLE 10, MATCH EXISTING SHORT CIRCUIT RATING. PROVIDE BLANK COVER ON SPACE 12 AFTER THE REMOVAL OF THE 2-POLE CIRCUIT BREAKER.
- (3) INTERCEPT AND EXTEND (E) CIRCUIT TO (N) DEVICE AS INDICATED. PROVIDE (N) N16 PULL BOX.
- 4 REMOVE (E) 20-AMP, 2-POLE CIRCUIT BREAKER AT POLES 27/29. PROVIDE (N) 20-AMP, 1-POLE CIRCUIT BREAKER IN THE PLACE OF POLE 27, MATCH EXISTING SHORT CIRCUIT RATING. PROVIDE BLANK COVER ON SPACE 29 AFTER THE REMOVAL OF THE 2-POLE CIRCUIT BREAKER.
- 5 REMOVE (E) 50-AMP, 2-POLE CIRCUIT BREAKER AT POLES 13/15. PROVIDE (N) 20-AMP, 1-POLE CIRCUIT BREAKER IN THE PLACE OF POLE 13, MATCH EXISTING SHORT CIRCUIT RATING. PROVIDE BLANK COVER ON SPACE 15 AFTER THE REMOVAL OF THE 2-POLE CIRCUIT BREAKER.

 TYPICAL UNLESS OTHERWISE NOTED - DEVICES SHOWN DASHED SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS. MAINTAIN CIRCUIT CONTINUITY TO DEVICES THAT REMAIN.

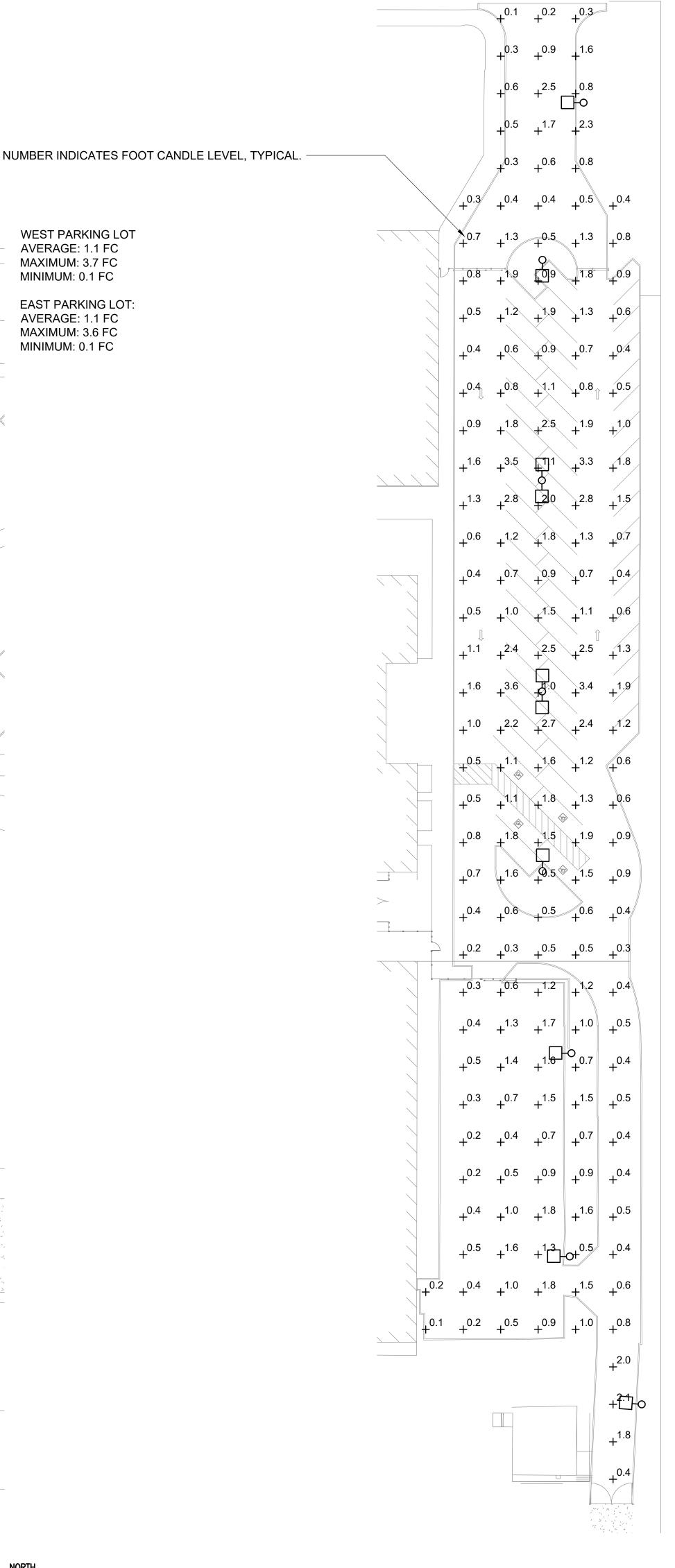






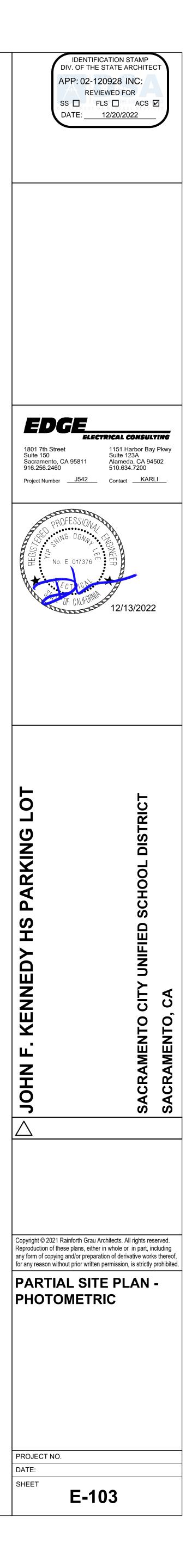
WEST PARKING LOT AVERAGE: 1.1 FC MAXIMUM: 3.7 FC MINIMUM: 0.1 FC

EAST PARKING LOT AVERAGE: 1.1 FC MAXIMUM: 3.6 FC MINIMUM: 0.1 FC



 PARTIAL SITE PLAN - EAST PARKING LOT - PHOTOMETRIC

 SCALE: 1/32" = 1' - 0"



	SECTION: SERVING:	OF		BUS RATING: MAIN BREAKER	400 AMP : 300 AMP	THREE PHASEVOLTAGE4-WIRE480Y/277	(E) PANE	L 'HE'	SECTION: SERVING:	1 OF 1 NORMAL		BUS RATIN		0 AMP THREE PHASE VOLTAGE 4-WIRE 480Y/277	(E) PANEL	. 'HM'	SECTION: SERVING:					RATING:   BREAKER	400 AMP R: 300 AMP		
LOCATION: BLDG D		FLUSH		MAIN LUGS ONI	.Y		LOCATION:	BLDG E		FLUSH		X MAIN LUG	SONLY		LOCATION:	BLDG M		FLU	H		MAIN'	LUGS ONL	_ <u>Y</u>		
PANEL A.I.C. EXISTING		SURFA	CE	FED-THRU LUG	S		PANEL A.I.C.	EXISTING		X SURFACI		FED-THRU	LUGS		PANEL A.I.C.	EXISTING		X SUR	FACE		FED	THRU LUG	,S		
LOAD DESCRIPTION		С. В.	СКТ РН СКТ		KVA LOAD	LOAD DESCRIPTION	LOAD DESCRIPTION		KVA LOAD		(Т РН С			A LOAD LOAD DESCRIPTION	LOAD DESCRIPTION		KVA LOAD		СКТ РІ	н скт	r c	с. В.	KVA LOAD		LOAD DESCRIPTION
CONT. RECP.	Motor Non A	IP POLE	# #	POLE AMP COM	IT. RECP. MOTOR	NON LOAD DESCRIPTION	LOAD DESCRIPTION	CONT. REC	CP. MOTOR NON	AMP POLE #	£	# POLE AMP	CONT. RECF	P. MOTOR NON	EGAD DESCRIPTION	CONT.	RECP. MOTOR NO	N AMP POLE	#	#	POLE	AMP CON	NT. RECP. MOTO	DR NON	LOAD DESCRIPTION
TING	2	0 1	1 <b>A</b> 2	1 20		LIGHTING	LIGHTING			20 1 1	А	2 1 20		LIGHTING	LIGHTING			20 1	1 /	A 2	1	20			HTING
ING	2	0 1	3 <b>B</b> 4	1 20		LIGHTING	LIGHTING			20 1 3	3 <b>B</b>	4 1 20		LIGHTING	LIGHTING			20 1	3 F	3 4	1	20			HTING
NG	2	0 1	5 <b>C</b> 6	1 20		LIGHTING	LIGHTING			20 1 5	5 <b>C</b>	6 1 20		LIGHTING	LIGHTING			20 1	5 <b>(</b>	3 6	1	20			HTING
	2	0 2	7 <b>A</b> 8	1 20		LIGHTING	LIGHTING			20 1 7	΄ Α	8 1 20		LIGHTING	EXIT LIGHTS			20 1	7 /	A 8	1	20		SP/	
		-	9 <b>B 10</b>	1 20		PARKING LOT LIGHTS				20 1 9	в	10 1 20		LIGHTING	SPARE			20 1	9 F	<b>3</b> 10	1	20		SP/	
		-	11 C 12			SPACE				20 1 1	1 <b>C</b>	12 1 20		LIGHTING	SPARE			20 1	11 <b>(</b>	3 12	1	20			ARE
NG SECTION SUB-FEED	4	0 3	13 <b>A</b> 14			SPACE ONLY	LIGHTING			20 1 13	3 <b>A</b>	14 1 20		LIGHTING	PARKING LOT LIGHTS			20 1	13 /	A 14	2	20		PA	RKING LOT LIGHTS
		-	15 <b>B</b> 16			-	LIGHTING			20 1 15	5 <b>B</b>	16 1 20		LIGHTING					15 B	<b>3</b> 16	-	-		-	
		-	17 <b>C</b> 18	3 125		DMS-23	LIGHTING			20 1 17	7 <b>C</b>	18 1 20		LIGHTING	PARKING LOT LIGHTS			20 2	17 <b>(</b>	3 18				SP/	ACE ONLY
2	1	25 3	19 <b>A</b> 20			-	LIGHTING			20 1 19	9 <b>A</b> 2	20 1 20		SPARE	-				19 <b>A</b>	A 20	-	-		-	
		-	21 <b>B</b> 22			SPACE ONLY	LIGHTING			20 1 2 <sup>-</sup>	1 <b>B</b> 2	22 1 20		SPARE	-				21 F	<b>3</b> 22	3	70		25 I	HP PUMP
		-	23 <b>C</b> 24			-	SPARE			20 1 23	3 <b>C</b> 2	24 1 20		SPARE	LIGHTING SECTION			40 3	23 <b>C</b>	24	-	-		-	
'LD'	1	50 3	25 <b>A</b> 26	3 300		MAIN BREAKER	SPARE			20 1 25	5 <b>A</b> 2	26 1 20		SPARE	-				25 <b>/</b>	A 26	-	-		-	
		-	27 <b>B</b> 28			-	PARKING LOT LIGHTS			20 1 2	7 B 2	28 2 20		SPARE	-				27 <b>F</b>	<b>3</b> 28	3	50		DM	S-47
			29 <b>C</b> 30							29	9 C :	30		-	DMS-46			40 3	29 <b>(</b>	3 30	-	-		-	
			31 <b>A</b> 32							3	1 <b>A</b> :	32			-				31 /	<b>A</b> 32				SP	ACE ONLY
			33 <b>B</b> 34							33	3 <b>B</b> :	34			-				33 F	<b>3</b> 34	-	-		-	
			35 <b>C</b> 36							35	5 <b>C</b> :	36			DMS-48			125 3	35 <b>r</b>	36	3	300		MA	IN BERAKER
			37 <b>A</b> 38							37	7 <b>A</b> :	38			-				37 /	A 38	-	-		-	
			39 <b>B</b> 40							39	~   •   •	40							39 B	<b>3</b> 40					
			41 <b>C</b> 42							4	1 <b>C</b>	42							41 <b>(</b>	3 42					
TOTALS> 0.00 0.00	0.00 0.00			0.0	0.00 0.00	0.00 < TOTALS	TOTALS	> 0.00 0.0	.00 0.00 0.00				0.00 0.00	0.00 0.00 < TOTALS	TOTALS	> 0.00	0.00 0.00 0.00	)				0.00	0 0.00 0.00	0.00 <	TOTALS
TOTALS> 0.00 0.00	0.00 0.00			0.0	0.00 0.00	0.00 < TOTALS	TOTALS	> 0.00 0.0	00 0.00 0.00				0.00 0.00	0.00 0.00 < TOTALS	TOTALS	> 0.00	0.00 0.00 0.00					0.00	0.00 0.00	0.00 <	- TOTALS
		~	AD REDU							NET LOA			_					NET L							

## NET LOAD REDUCTION

# BRANCH CIRCUIT LOAD SUMMARY

DTE: ALL LOADS SHOWN IOWN ARE 20 AMP, 1 PC					O BRANCH	
PANEL VOLTAGE BRANCH	CIRCUIT #	EXISTING LOAD	REMOVED LOAD	ADDED LOAD	NEW LOAD	NEW LOAD (AMPS)
	10	0.8	0.8	0.426	0.426	≤
PANEL 'HD' 277/480V	12	0.8	0.8	0	0	*
NORMAL BRANCH						
	27	0.2	0.2	0.201	0.201	≤
PANEL 'HE' 277/480V NORMAL BRANCH	29	0.2	0.2	0	0	*
	13	8	8	2.184	2.184	≤
PANEL 'HM' 277/480V NORMAL BRANCH	15	8	8	0	0	*

\* INDICATES ENTIRE LOAD REMOVED

INDICATES NEW LOAD LESS THAN OR EQUAL THAN EXISTING LOAD - INDICATES NO LOAD IN THE CIRCUIT

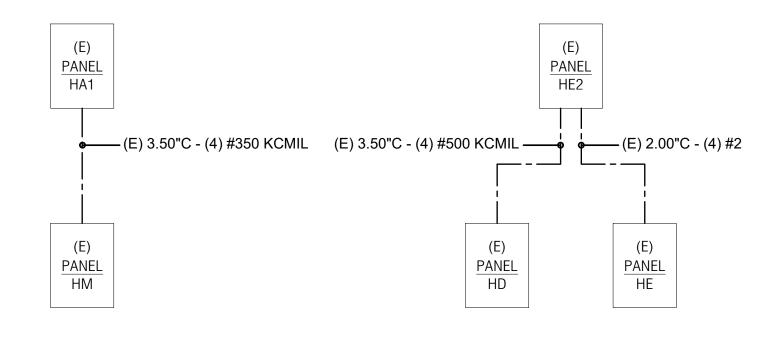
## NET LOAD REDUCTION

## PANEL NUMBERED NOTES

REMOVE (E) 2-POLE CIRCUIT BREAKER. PROVIDE (N) 20-AMP 1-POLE CIRCUIT BREAKER IN ITS PLACE, MATCH EXISTING SHORT CIRCUIT RATING. PROVIDE BLANK COVER ON SPACE AFTER REMOVAL OF THE 2-POLE CIRCUIT BREAKER.

## PANEL SCHEDULE NOTES

- 1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
- ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
- 3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
- PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
- 5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.



1 PARTIAL ONE-LINE DIAGRAM NO SCALE

