

GENERAL CONSTRUCTION NOTES

1.

BEFORE STARTING ANY WORK ON THIS PROJECT, THE CONTRACTOR SHALL:

A) HAVE SUBMITTED, IN SEPTUPLET, A WRITTEN LISTING OF ALL MATERIAL ITEMS TO BE FURNISHED TO AND/OR INSTALLED ON THE PROJECT, TO THE ENGINEER AND POSSESS A RETURNED COPY OF SUCH MARKED "APPROVED" FOR THIS PROJECT BY THE ENGINEER.

B) HAVE SUBMITTED TO THE ENGINEER PROOF THAT THE AGENCY IS NAMED INSURED BY THE CONTRACTOR'S INSURERS IN ACCORDANCE WITH THE GENERAL PROVISIONS OF THE SPECIFICATIONS.

C) HAVE GIVEN THE ENGINEER THE TELEPHONE NUMBER, BUSINESS OR HOME ADDRESS AND MAILING ADDRESS AND NAMES OF THE PERSONS WHO CAN BE CONTACTED IN THE EVENT OF AN EMERGENCY OCCURRENCE ON THE PROJECT DURING THE TIME THE WORK IS IN PROGRESS, 24 HOURS PER DAY, 7 DAYS PER WEEK.

D) HAVE GIVEN THE ENGINEER 2 DAYS IN ADVANCE OF START OF WORK, NOTICE, IN WRITING, OF THE TIME OF START OF WORK.

2.

IT IS RECOMMENDED THAT THE DEVELOPER CHECK THIS PLAN WITH HIS PLANS BEFORE COMMENCING CONSTRUCTION OF THE WATER SYSTEM. THE WATER DISTRIBUTION SYSTEM PLAN FOR THIS PROJECT WAS PREPARED BY THE DEVELOPER'S ENGINEER. THE ACCURACY OF THE LOCATION FOR THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE AS TO THEIR LOCATION BY THE AGENCY. NEW PAVING, CURBS, AND SIDEWALKS INDICATED ON THESE DRAWINGS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR FOR THE WATER SYSTEM SHOULD VERIFY THE LOCATION AND THE PROPOSED SCHEDULING OF THE NEW PAVING, WORK BEFORE HE PROCEEDS.

3.

ALL WATER SYSTEM MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE REQUIREMENTS OF THE DISTRICT THESE PLANS AND THIS LIST OF MATERIALS HAVE BEEN DETAILED FOR USE OF DUCTILE IRON, CEMENT MORTAR LINED FITTINGS AND APPURTENANCES OR STEEL, CEMENT MORTAR LINED AND COATED APPURTENANCES AS SHOWN. THE CONTRACTOR'S MATERIAL LISTING APPROVED BY THE ENGINEER SHALL BE IN THE CONTRACTOR'S POSSESSION PRIOR TO HIS PURCHASE OR FABRICATION OF SUCH MATERIALS. DUCTILE IRON FITTINGS SHALL BE MINIMUM PRESSURE RATED 350 P.S.I., STEEL FITTINGS SHALL BE MINIMUM SCHEDULE 40. ALL VALVES SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 200 P.S.I. CONTRACTOR SHALL APPLY TWO COATS OF HEAVY DUTY RED PRIMER AND TWO FINISH COATS OF PAINT TO FIRE HYDRANTS AND FLUSHOUTS, AS SPECIFIED IN THE APPLICABLE STANDARD DRAWINGS.

4.

ALL WORK IS SUBJECT TO THE REQUIREMENTS OF THE PERMIT(S) OF THE CITY OF PALMDALE REGARDING BARRICADES, TRAFFIC CONTROL, BACKFILL COMPACTION, PAVEMENT REPAIRS, ETC.

5.

ALL SURVEYING SERVICES ARE TO BE FURNISHED BY THE DEVELOPERS ENGINEER.

6.

ALL 4" AND 6" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 36"; 8" AND 10" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 42"; 12" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 48"; AND ALL SERVICE CONNECTIONS SHALL HAVE A MINIMUM COVER OF 24" MEASURED VERTICALLY FROM TOP OF SERVICE CONNECTION TO APPROVED GUTTER SURFACE FLOW LINE. CROSSED BY THE SERVICE CONNECTION. WHERE CONSTRUCTION OF PERMANENT GUTTER SURFACES IS NOT COMPLETE OR ESTABLISHED ADJACENT TO THE WATER MAIN WORK, WATER MAINS SHALL BE CONSTRUCTED WITH THE MINIMUM REQUIRED COVER MEASURED FROM THE PROPOSED ADJACENT FLOW LINES.

7.

EARTH COVER OVER TOP OF THE PIPE AT FITTING IS CONTROLLED BY LARGEST PIPE OUTLET.

8.

ALL SERVICE CONNECTIONS SHALL BE INSTALLED FROM THE MAIN IN THE STREET FROM WHICH THE HOUSE IS NUMBERED AND INSTALLED AT RIGHT ANGLES TO THE WATER MAIN AND AS CLOSE AS POSSIBLE TO THE CENTER OF THE LOT, BUT NO CLOSER THAN 10" TO ANY DRIVEWAY, WALKWAY, CURB RETURN, OR OTHER UTILITY UNLESS NOTED OTHERWISE ON THE PLANS. WATER METER BOXES AND SERVICE CONNECTIONS SHALL BE INSTALLED BETWEEN THE BACK OF CURB AND PROPERTY LINE PER STANDARD W-5 OR W-7, AS APPLICABLE. METERS SHALL BE INSTALLED BY THE CONTRACTOR AFTER:

A) AN APPLICATION FOR EACH METER HAS BEEN SUBMITTED TO THE AGENCY.

B) ALL APPLICABLE CHARGES HAVE BEEN PAID.

C) THE CONTRACTOR HAS BROUGHT THE WATER METER BOXES AND SERVICE CONNECTIONS TO FINISHED CURB AND SIDEWALK GRADE.

9.

IT SHALL BE THE DEVELOPERS DUTY TO CAUSE THE SEWER OR LATERALS TO MEET THE REQUIREMENTS OF STANDARD 2100-0 OF THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS AND WATERWORKS DISTRICT STANDARD W-50.

10.

PROPOSED UTILITY INFORMATION, AND LOCATIONS SHOWN ON THIS PLAN ARE SUBJECT TO CONTRACTUAL ARRANGEMENTS WITH THE DEVELOPER. CONTRACTOR SHALL CHECK THIS INFORMATION WITH THE APPROPRIATE UTILITY COMPANY.

11.

FIRE HYDRANT RISERS SHALL BE INSTALLED AS SHOWN IN THE APPLICABLE DISTRICT STANDARD DRAWINGS. ANY NECESSARY ADJUSTMENT OF FIRE HYDRANT FLANGE ELEVATION SHALL BE PERFORMED AT DEVELOPERS EXPENSE AT TIME FINAL FINISH GRADE IS DEVELOPED.

12.

ALL NEW WORK SHALL BE TESTED VALVE TO VALVE AT 200 P.S.I. FOR FOUR HOURS, UNLESS OTHERWISE SPECIFIED. PRESSURE TESTING SHALL NOT BE CONDUCTED AGAINST ANY NEW OR EXISTING VALVE THAT IS CONNECTED TO THE DISTRICT'S EXISTING DISTRIBUTION SYSTEM. THE CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL ANY NECESSARY THRUST BLOCKS IN ACCORDANCE WITH STANDARD W-21, OR AS SHOWN ON THESE PLANS.

13.

DISINFECTION: CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ASSURE SANITARY INSTALLATION. HE SHALL ENDEAVOR TO KEEP ALL DIRT, RODENTS, INSECTS, ETC. AWAY FROM WATERWAY SURFACES. ISOLATION VALVES SHALL BE KEPT CLOSED (EXCEPT DURING FILLING AND FLUSHING, WHEN VALVES SHALL BE OPERATED SO AS TO ASSURE FLOW TOWARD NEW DISCHARGE) AND LEFT CLOSED AT ALL OTHER TIMES UNTIL AFTER PRESSURE TEST, DISINFECTION, FLUSHING AND BACTERIAL TEST HAS BEEN PASSED. CONTRACTOR SHALL NOTIFY AGENCY AT LEAST 24 HOURS IN ADVANCE OF ANY OPERATION OF ISOLATION VALVES WHICH SHALL BE OPERATED ONLY BY AGENCY PERSONNEL. AGENCY WILL ARRANGE FOR BACTERIOLOGICAL TEST SAMPLING OF WATER MAINS UPON NOTIFICATION BY CONTRACTOR. AGENCY WILL ALSO ARRANGE FOR CONCURRENT BACTERIOLOGICAL TEST SAMPLING OF SUPPLY.

14.

IF THE DEVELOPER DESIRES TEMPORARY WATER SERVICE FOR CONSTRUCTION AND TO OPERATE HOUSE PLUMBING PRIOR TO INSTALLATION OF PERMANENT WATER METER BY CONTRACTOR, THE DEVELOPER SHALL APPLY FOR INSTALLATION, BY THE DISTRICT, OF TEMPORARY CONSTRUCTION METER(S) OFF FIRE HYDRANTS OR FLUSHOUTS. THE ISSUANCE OF TEMPORARY CONSTRUCTION METER(S) DURING THE SUMMER MONTHS MAY BE RESTRICTED BASED ON AVAILABLE WATER SUPPLY.

15.

INTERCONNECTIONS: CONTRACTOR SHALL NOTIFY THE AGENCY, IN WRITING, TWO WORKING DAYS IN ADVANCE THAT HE IS PREPARED WITH ALL LABOR, MATERIAL, EQUIPMENT, AND NECESSARY PRELIMINARY WORK TO MAKE THE CONNECTION. THE AGENCY WILL MARK ON THE SURFACE THE DISTRICTS EXISTING FACILITIES, AND WILL PROVIDE SUPERVISION ONLY FOR CONTRACTOR TO MAKE INSTALLATION. THE CONTRACTOR SHALL EXCAVATE, INSTALL CONNECTIONS, BACKFILL AND REPAIR ANY DAMAGES AT HIS EXPENSE.

16.

ANY MATERIAL SALVAGED FROM THE EXISTING WATER SYSTEM BY THE CONTRACTOR SHALL BE RETURNED BY THE CONTRACTOR TO THE AGENCY (260 EAST AVENUE K-8, LANCASTER), UNLESS SUCH MATERIAL IS DETERMINED BY THE ENGINEER TO BE EQUIVALENT TO NEW MATERIAL REQUIRED FOR THIS WORK. IN WHICH CASE THE CONTRACTOR WILL BE ALLOWED TO USE SUCH EQUIVALENT SALVAGED MATERIAL IN PLACE OF NEW MATERIAL. CONTRACTOR SHALL RECOAT, REPAINT, REWORK, CLEAN AND TEST SUCH MATERIAL TO THE SATISFACTION OF THE ENGINEER BEFORE INSTALLING CONTRACTOR SHALL RECOAT, REPAINT, REWORK, CLEAN AND TEST SUCH MATERIAL TO THE SATISFACTION OF THE ENGINEER BEFORE INSTALLING SAME.

17.

PIPE LENGTHS IN ENGINEER'S "ESTIMATED" QUANTITIES WERE CALCULATED ON A HORIZONTAL OFFSET. PIPE LENGTHS ADJUSTMENT FOR JOGS, SLOPES, VALVES, AND FITTINGS HAS NOT BEEN MADE.

18.

CONTRACTOR SHALL MAKE ARRANGEMENTS TO ADJUST VALVE BOXES, FIRE HYDRANT FLANGES, METER BOXES, VAULTS, ETC. TO SUBDIVISION FINISH GRADE AT TIMES WHEN FINISH GRADES ARE ESTABLISHED BY OTHERS AT NO COST TO AGENCY.

19.

CONTRACTOR SHALL NOT UNREASONABLY RESTRICT THE USE OF PUBLIC RIGHT-OF-WAY OR ACCESS TO ADJACENT PREMISES.

20.

IN ADDITION TO ITEMS IN LIST OF MATERIALS, CONTRACTOR SHALL FURNISH ALL NECESSARY ADAPTORS, COUPLINGS, BOLTS, GASKETS, CAULKING MATERIALS, AND REPAVING MATERIALS AS REQUIRED TO COMPLETE THE WORK.

21.

BEFORE BACKFILLING TRENCH, ALL EXPOSED UNDERGROUND METAL SURFACES, UNLESS NOTED OTHERWISE OR SPECIFIED ELSEWHERE IN THE PLANS AND SPECIFICATIONS, SHALL BE COATED WITH A 2-INCH MINIMUM THICKNESS OF 1,000 LB. CEMENT MORTAR, [THREE (3) PARTS SAND TO ONE (1) PART PORTLAND CEMENT TO ONE (1) PART LIME.]

22.

CLEARANCE: (EXCEPT SEWERS, SEE NOTE 9)
UNLESS NOTED OTHERWISE IN THE PLANS AND SPECIFICATIONS, IT SHALL BE THE DEVELOPERS DUTY TO ARRANGE ALL OTHER EXISTING OR PROPOSED PROJECT IMPROVEMENTS INCLUDING ALL UNDERGROUND STRUCTURES AND UTILITY LINES TO PROPERLY CLEAR WATER PIPE AS SPECIFIED BELOW

(A) HORIZONTAL : 48 - INCHES OUTSIDE - TO - OUTSIDE FROM STORM DRAINS; 24 - INCHES OUTSIDE - TO - OUTSIDE FROM ALL OTHER;

(B) VERTICAL : 12 - INCHES OUTSIDE - TO OUTSIDE

23.

THE CONTRACTOR IS TO NOTIFY THE AGENCY, TELEPHONE (661-940-9270, LANCASTER), AT LEAST THREE (3) WORKING DAYS BEFORE STARTING ANY WORK ON THIS PROJECT.

24.

THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, CLASS, PROTECTIVE LINING AND COATING, AND DEPTH OF THE EXISTING WATER MAIN AND SHALL BE RESPONSIBLE FOR MAKING THE PROPER CONNECTIONS.

GENERAL CONSTRUCTION NOTES (CONT.)	
25.	THE DEVELOPER MUST PROCEED WITH, AND COMPLETE, THE REQUIRED WATER SYSTEM IMPROVEMENTS WITHIN ONE YEAR OF THE DATE OF THE DISTRICT APPROVAL OF THE PLANS. AFTER THE 12 - MONTH PERIOD, THE DISTRICT REQUIREMENTS ARE SUBJECT TO CHANGE. IF NO IMPROVEMENTS HAVE COMMENCED WITHIN A 24-MONTH PERIOD FROM APPROVAL DATE, THE PLANS MUST BE RE-ISSUED BY THE DISTRICT.
26.	METERED WATER SERVICE CONNECTIONS MAY ONLY BE INSTALLED AFTER RECEIPT AND PROCESSING OF WATER SERVICE APPLICATION BY THE AGENCY AND PAYMENT OF APPLICABLE CHARGES. IF SERVICES ARE NOT TO BE INSTALLED PER THIS PLAN, SEPARATE SPECIFICATIONS WILL THEN BE ISSUED BY THE AGENCY THEREFOR.
27.	WHERE PUBLIC FIRE HYDRANTS ARE INSTALLED OR UPGRADED, THE CONTRACTOR SHALL INSTALL A TWO-WAY, BLUE REFLECTIVE RAISED PAVEMENT MARKER, ALSO COMMONLY CALLED "BLUE DOTS". REFLECTORS SHALL COMPLY AND BE INSTALLED PER SECTION 214 - "PAVEMENT MARKERS" OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ONE MARKER SHALL BE INSTALLED PERPENDICULARLY OPPOSITE EACH HYDRANT, APPROXIMATELY 6 INCHES OFFSET FROM THE CENTERLINE OF THE STREET ON THE HYDRANT SIDE OF THE STREET. (TWO MARKERS SHALL BE REQUIRED IN THE CITY OF LANCASTER).
28.	THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE LOCATION OF ANY UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. IT IS ALSO SUGGESTED THAT THE CONTRACTOR POTHOLE THE AREA PRIOR TO INSTALLATION TO MAKE SURE CONNECTIONS AND CROSSINGS CAN BE MADE ACCORDING TO PLAN. ANY CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER.
29.	ASBESTOS CEMENT PIPE SHALL BE CUT IN ACCORDANCE WITH CAL-OSHA STANDARDS AND THE LAWS OF THE STATE OF CALIFORNIA. ABRASIVE SAWS FOR CUTTING THIS PIPE SHALL NOT BE USED. ALL ASBESTOS RESIDUE SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED IN ACCORDANCE TO STATE LAW. THE CONTRACTOR WORKING WITH ASBESTOS MATERIALS MUST HAVE REGISTRATION FOR THIS WORK FROM CAL-OSHA.
30.	CONTRACTOR SHALL POSSESS A VALID "A", "C-34", OR "SC-34" CONTRACTORS LICENSE.
31.	A DISTRICT APPROVED BACKFLOW PREVENTION ASSEMBLY, OF THE TYPE SPECIFIED, IS REQUIRED WHEN POTENTIAL BACKFLOW HAZARDS TO THE DISTRICT'S WATER SUPPLY EXIST. THE APPROVED ASSEMBLY SHALL BE INSTALLED ABOVE GROUND DIRECTLY AFTER THE METER. NO CONNECTIONS ARE ALLOWED BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. WATER SERVICE SHALL BE CONTINGENT UPON TESTING AND CERTIFICATION OF THE ASSEMBLY BY A LOS ANGELES COUNTY CERTIFIED BACKFLOW TESTER. SUBSEQUENT TO THE INITIAL CERTIFICATION, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR SUBMITTING AN ANNUAL TEST CERTIFICATION TO THE DISTRICT. ALL TESTING PROCEDURES AND CERTIFICATIONS SHALL BE CONDUCTED AT OWNER'S EXPENSE.
32.	ALL BURIED PIPING, INCLUDING MAINS, HYDRANT LATERALS, FLUSHOUT LATERALS, AIR RELEASE VALVE LATERALS, AND OTHER APPURTENANCES SHALL BE INSTALLED WITH FACILITY IDENTIFICATION WARNING TAPE (SEE SPECIFICATIONS).

STATISTICS	
NUMBER OF LOTS	1
NUMBER OF ACRES	15
LANDSCAPE / IRRIGATION AREA SQ. FT / ACRES	3.9
FEET OF WATERMAIN	1350±
PUBLIC FIRE FLOW, G.P.M. @ 20 PSI RESIDUAL *	2000
DURATION OF PUBLIC FIRE FLOW, HOURS *	2
ON-SITE FIRE FLOW, G.P.M. *	2000
FIRE SPRINKLER DEMAND, G.P.M. *	650
* SUBJECT TO FIRE DEPARTMENT APPROVAL	
HWL OF PRESSURE ZONE	2555
DISTRIBUTION SHEET	I-24W

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POthOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BY BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE OPERATION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE 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 THE ENGINEER.

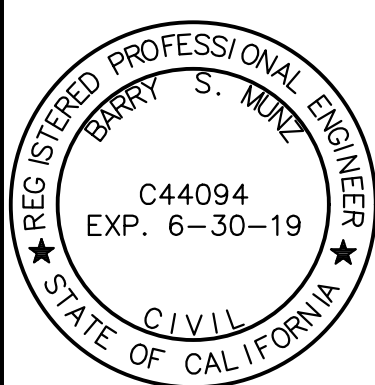
BARRY S. MUNZ

R.C.E

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

TWO (2) WORKING DAYS BEFORE YOU DIG

ARTICLE 2, SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT AT THE NUMBER ABOVE.

[illegible]

PRELIMINARY—FOR REVIEW PURPOSES ONLY

BARRY S. MUNZ	R.C.E. 44094
EXPIRATION DATE:	6/30/2019

DWG NAME: Off Site Water PLOT: 4/5/18

LIST OF MATERIALS									
ITEM NO.	DESCRIPTION	ENGINEER'S "ESTIMATED" QUANTITIES							
		SHEET NUMBER						TOTAL	UNIT
		W2	W3						
1	12" I.D. DI WATERMAIN, CL-50 (0.31") CML & POLY WRAPPED	1300±	-	-	-	-	-	1300±	LF.
2	8" I.D. DI WATERMAIN, CL-50 (0.27") CML & POLY WRAPPED	50±	-	-	-	-	-	50±	LF.
3	TAPPING SLEEVE, S.S., 16" x 12", 250 PSI WWP, FLG'D. CL-125	-	1	-	-	-	-	1	EA.
4	TEE, 12"x 8", DI, PR 350, FLG'D. (CL-125) CML & POLY WRAPPED	-	2	-	-	-	-	2	EA.
5	TEE, 12"x 6", DI, PR 350, FLG'D. (CL-125) CML & POLY WRAPPED	5	-	-	-	-	-	5	EA.
6	TEE, 12"x 4", DI, PR 350, FLG'D. (CL-125) CML & POLY WRAPPED	1	-	-	-	-	-	1	EA.
7	VALVE, 12" TAPPING, 200 PSI WWP, NRS FLANGED ENDS (CL-125) W/ ADJUSTABLE VALVE BOX (PER STD. PLAN W-15)	-	1	-	-	-	-	1	EA.
8	2" WATER SERVICE CONNECTION & 2" METER W/AMR/AMI COMPATIBLE & RP BACKFLOW DEVICE PER LACWD STD. PLAN W-5. (SEE GENERAL NOTES 8, 26 & 31).	4	-	-	-	-	-	4	EA.
9	VALVE, 8" GATE, 200 PSI WWP, NRS FLANGED ENDS (CL-125) W/ ADJUSTABLE VALVE BOX (PER STD. PLAN W-15)	-	2	-	-	-	-	2	EA.
10	VALVE, 6" GATE, 200 PSI WWP, NRS FLANGED ENDS (CL-125) W/ ADJUSTABLE VALVE BOX (PER STD. PLAN W-15)	5	-	-	-	-	-	5	EA.
11	VALVE, 4" GATE, 200 PSI WWP, NRS FLANGED ENDS (CL-125) W/ ADJUSTABLE VALVE BOX (PER STD. PLAN W-15)	1	-	-	-	-	-	1	EA.
12	6"x 4"x 2 1/2" FIRE HYDRANT COMPLETE PER LACWD STD. PLAN W-8 (ONE RELOCATED)	5	-	-	-	-	-	5	EA.
13	8" REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY (W/ 3/4" BYPASS METER & BALL VALVES) COMPLETE PER LACWD STD. PLAN W-6. (NOTE: ALL ABOVE GROUND PIPING/PARTS TO BE INSULATED.)	2	-	-	-	-	-	2	EA.
14	4"x 2 1/2" FLUSH-OUT HYDRANT COMPLETE PER LACWD STD. PLAN W-33	1	-	-	-	-	-	1	EA.
15	2" WATER SERVICE CONNECTION & 1 1/2" METER W/AMR/AMI COMPATIBLE & RP BACKFLOW DEVICE PER LACWD STD. PLAN W-5. (SEE GENERAL NOTES 8, 26 & 31).	1	-	-	-	-	-	1	EA.
16	P.C.C. THRUST BLOCK PER LACWD STD. PLAN W-21	AS REQUIRED (EVEN IF NOT SHOWN)							
17	TEMPORARY 10" BLIND FLANGE, DI PR 350, CL-125, EPOXY COATED	-	2	-	-	-	-	2	EA.
18	12" BLIND FLANGE, DI PR 350, CL-125, EPOXY COATED	1	-	-	-	-	-	1	EA.
19	AIR-RELEASE AND VACUUM VALVE ASSEMBLY PER LACWD STD. W-16 (RELOCATED)								
<u>CONDUCT OF CONSTRUCTION</u> THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK AND ENGINEER'S RIGHT TO INSPECT OR SUSPEND THE WORK IS LIMITED THERETO. THE ENGINEER WILL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OVER THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.									

LEGEND

<u>WATER MAIN</u>	
<u>RECYCLED WATER</u>	
<u>GATE VALVE</u>	
<u>BUTTERFLY VALVE</u>	
<u>REDUCER</u>	
<u>TEE</u>	
<u>ELBOW</u>	
<u>FLUSH OUT: 4"x2"-8" COMPLETE</u>	
<u>AIR & VACUUM RELEASE VALVE COMPLETE</u>	
<u>PUMP WELL</u>	
<u>FIRE HYDRANT</u>	
<u>COUPLING ADAPTER</u>	

<u>SEWER AND MANHOLE</u>	
<u>STORM DRAIN</u>	
<u>GAS LINE</u>	
<u>TELEPHONE</u>	
<u>STORM DRAIN FORCE MAIN</u>	
<u>IRRIGATION MAIN LINE</u>	
<u>STREET CENTER LINE</u>	
<u>PROPERTY LINE</u>	
<u>RIGHT-OF-WAY LINE</u>	
<u>A.C. PAVEMENT</u>	
<u>CURB, GUTTER, & SIDEWALK</u>	
<u>STREET LIGHT</u>	
<u>POWER POLE</u>	
<u>EXISTING RECYCLED WATER MAIN</u>	
<u>EXISTING DOMESTIC WATER MAIN</u>	
<u>EXISTING VALVE</u>	
<u>EXISTING SERVICE AND METER</u>	
<u>EXISTING FLUSH OUT</u>	
<u>EXISTING AIR & VACUUM RELEASE VALVE</u>	
<u>EXISTING FIRE HYDRANT</u>	

SEWER AND MANHOLE	
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EXISTING VALVE	
EXISTING SERVICE AND METER	
EXISTING FLUSH OUT	
EXISTING AIR & VACUUM RELEASE VALVE	
EXISTING FIRE HYDRANT	



N.T.S.
T.G. PAGE 4015/B4
A.P.N. 3107-012-905

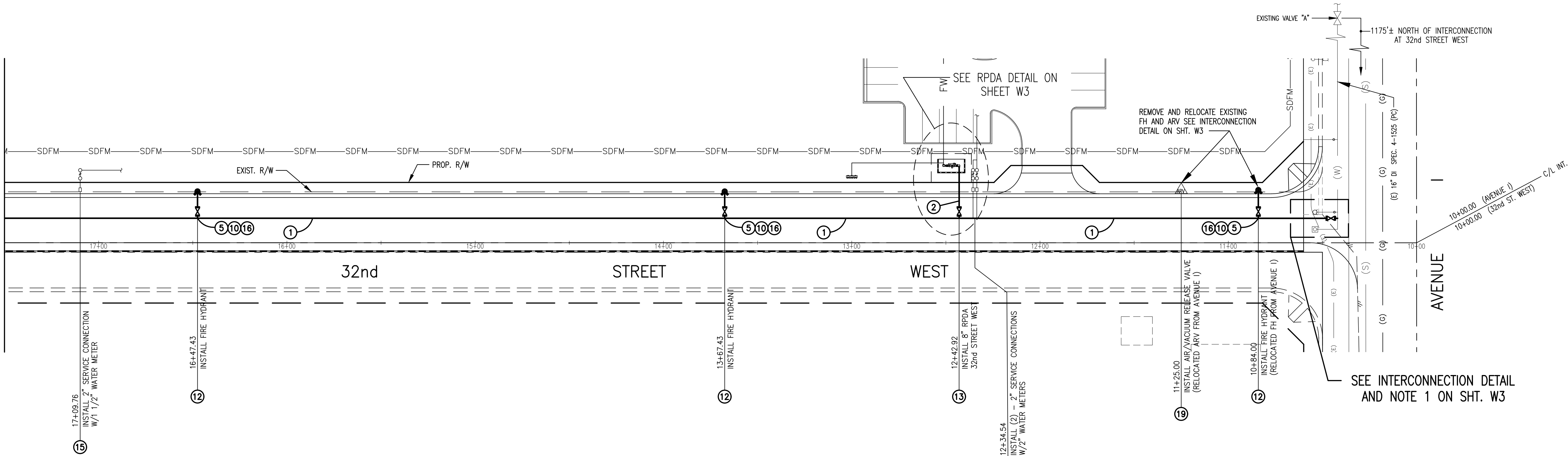
LS TAG IN N CB 1FT W/O BCR @ NW COR
AVE I & 30TH ST W 52.5FT N/O & 100FT
W/O C/L INT
LANCASTER QUAD (2012 ADJUSTMENT)
NAVD 88 DATUM

IMPROVEMENTS: WATERMAIN, HYDRANT AND 8" RPD
RPDA IMPROVEMENTS
LOCATION: ????? 32nd STREET WEST
LANCASTER, CA 93536

3
SHEETS

K:\projects\18022\dwg\18022 Off-Site Water.dwg Mon, Apr 9 2018 02:53:59 pm

MATCHLINE SEE BELOW RIGHT



(IN FEET)

1 inch = 40 ft.

STREET IMPROVEMENT GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ALL "STANDARD PLANS" AND "SPECIAL PROVISIONS" REFERENCED.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PER THE CURRENT CITY OF LANCASTER STANDARDS, POLICES, CODES, AND PERMIT REQUIREMENTS, AND SHALL BE DONE UNDER THE INSPECTION OF, AND TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS OR HIS REPRESENTATIVE. APPLICATION FOR INSPECTION BY THE CITY OF LANCASTER SHALL BE MADE BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS BEFORE THE SERVICES THEREOF WILL BE REQUIRED. PHONE: (661) 723-6167
3. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. FAILURE TO COMPLY WITH THIS REQUIREMENT IS A VIOLATION OF THE CITY OF LANCASTER HIGHWAY PERMIT ORDINANCE.
4. PERMITS, RIGHT-OF-ENTRY, DEDICATIONS, TRESPASSING AND EXTENSIONS:
- A. AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF LANCASTER DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF WORK.
- B. A PRECONSTRUCTION MEETING WITH THE PUBLIC WORKS INSPECTOR IS REQUIRED PRIOR TO START OF WORK.
- C. RIGHT OF ENTRY FOR ANY WORK PERFORMED ON ADJACENT PROPERTIES IS REQUIRED. PERMISSION FOR RIGHT OF ENTRY SHALL BE OBTAINED IN WRITING AND THE LETTER SHALL COMPLY WITH CITY FORM DPW008. THE RIGHT OF ENTRY LETTER MUST BE SIGNED BY THE ADJACENT PROPERTY OWNER(S) AND MUST BE NOTARIZED. THIS IS REQUIRED EVEN IF THE OWNER OF THE IMPACTED PROPERTY IS THE PERMITEE OF THE SUBJECT PROJECT.
- D. DEDICATIONS AND ROAD DEEDS ARE REQUIRED FOR IMPROVEMENTS TO BE INSTALLED WITHIN CITY RIGHT-OF-WAY. DEDICATION AND ROAD DEED DOCUMENTS SHALL COMPLY WITH CITY STANDARDS. PRIOR TO RECORDATION, DEDICATION AND ROAD DEED DOCUMENTS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL. THESE DOCUMENTS ARE REQUIRED EVEN IF THE OWNER OF THE IMPACTED PROPERTY IS THE PERMITEE SUBJECT PROJECT.
- E. APPROVAL OF PLANS AND / OR PERMIT ISSUANCE DOES NOT RELIEVE THE PERMITEE OF THEIR RESPONSIBILITY TO MAINTAIN WORK WITHIN THE PROJECT PROPERTY BOUNDARIES AND DEDICATED CITY RIGHT-OF-WAY. TRESPASSING ON PRIVATE PROPERTY IS AGAINST THE LAW AND CAUSE FOR CANCELLATION OF PERMIT AND ISSUANCE OF STOP WORK REQUEST.
- F. IT IS THE RESPONSIBILITY OF THE PERMITEE TO SUBMIT A REQUEST FOR PERMIT EXTENSION TO THE PUBLIC WORKS DIRECTOR IN WRITING PRIOR TO PERMIT EXPIRATION. EXTENSION AND EXPIRATION OF PERMITS SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE AND /OR THE CITY OF LANCASTER ENGINEERING DESIGN GUIDELINES POLICES AND PROCEDURES.
5. DRAINAGE
- A. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH HIS PRIVATE DEVELOPMENT CONSTRUCTION.
- B. DRAINAGE/SLOPE ACCEPTANCE LETTERS OR EASEMENTS FROM THE OWNERS OF ALL IMPACTED PROPERTIES ARE REQUIRED. ACCEPTANCE LETTER AND EASEMENT DOCUMENTS SHALL COMPLY WITH CITY STANDARDS. PRIOR TO RECORDATION, ACCEPTANCE LETTER AND EASEMENT DOCUMENTS MUST BE SUBMITTED TO THE CITY REVIEW AND APPROVAL. THESE DOCUMENTS ARE REQUIRED EVEN IF THE OWNER OF THE IMPACTED PROPERTY IS THE PERMITEE OF THE SUBJECT PROJECT.
6. THERE SHALL BE NO ABOVE-GROUND OBSTRUCTIONS IN ANY PORTION OF THE SIDEWALK (WHERE THE WIDTH, EXCLUSIVE OF TOP OF CURB, IS 6 FEET OR LESS), WHERE POWER/TELEPHONE/CABLE POLES, STREET LIGHT STANDARDS, FIRE HYDRANTS, AND CONTROL BOXES OCCUR IN THE 5 FOOT SIDEWALK, THE SIDEWALK SHALL BE MODIFIED PER CITY OF LANCASTER STANDARD PLAN PW-1.
7. "PATCHING" OF SIDEWALK DAMAGE IS PROHIBITED; REPAIRS TO SIDEWALK SHALL INCLUDE REPLACEMENT OF THE ENTIRE PANEL FROM "JOINT-TO-JOINT".
8. AMOUNT OF REQUIRED A.C. PAVEMENT AND BASE SHALL BE DETERMINED BY THE DEVELOPER'S SOILS ENGINEER AND SHALL BE BASED ON SUBGRADE SOILS TESTS AND THE CITY-SUPPLIED TRAFFIC INDICES. PLANS SHALL BE REVISED TO SHOW ACTUAL PAVEMENT AND BASE SECTION TO BE CONSTRUCTED.
9. CLASS 2 AGGREGATE BASE AS DEFINED IN THE CALTRANS SPECIFICATIONS MAY BE SUBSTITUTED FOR CRUSHED AGGREGATE BASE PROVIDED THAT TEST RESULTS ARE COMPLETED, SUBMITTED TO THE DEVELOPMENT ENGINEERING DIVISION, AND APPROVED BY THE DEVELOPMENT ENGINEERING DIVISION PRIOR TO PLACEMENT. ANY MATERIAL PLACED PRIOR TO THIS APPROVAL SHALL BE REMOVED.
10. ALL REVISIONS TO IMPROVEMENT PLANS, OR MATERIAL SUBSTITUTION REQUESTS, PROPOSED DURING CONSTRUCTION SHALL BE SUBMITTED IN WRITING TO THE DEVELOPMENT ENGINEERING DIVISION BY THE ENGINEER OF RECORD AND SHALL FOLLOW THE PROCEDURES FOR APPROVAL OUTLINED IN THE MOST CURRENT CITY OF LANCASTER ENGINEERING DESIGN GUIDELINES.
11. THE SOIL UNDER PROPOSED SIDEWALKS, DRIVEWAY APPROACHES, CURB AND GUTTER, AND MEDIAN HARDSCAPE SHALL BE TESTED TO DETERMINE THE EXPANSION INDEX (EI). IF THE EI IS ABOVE 55, THEN THE DEVELOPER SHALL REMEDIATE THE SOIL PRIOR TO PLACING CONCRETE USING ONE OF THE FOLLOWING METHODS:
- A. MOISTURE CONDITION THE SOIL TO 2 PERCENT ABOVE OPTIMUM AND COMPACT TO 90 PERCENT RELATIVE COMPACTION.
- B. REMOVE THE EXISTING SOIL TO 1 FOOT BELOW THE SUBGRADE ELEVATION AND REPLACE WITH SELECT MATERIAL FROM THE SITE OR AN APPROVED AGGREGATE BASE.
12. IN LIEU OF CRUSHED AGGREGATE BASE UNDER SIDEWALKS, DRIVEWAY APPROACHES, CURB AND GUTTER, AND MEDIAN HARDSCAPE, THE CONTRACTOR MAY USE CRUSHED MISCELLANEOUS BASE OR SELECT MATERIAL WITH AN EXPANSION INDEX (EI) OF LESS THAN 20, AS DETERMINED BY U.B.C. TEST METHOD 29-2.
13. ALL PCC CURB, GUTTER AND SIDEWALK SHALL INCLUDE 4% AIR ENTRAINMENT AND CONCRETE SHALL BE 520-C-2500.
14. PROVIDE A STREET LIGHTING SYSTEM APPROVED BY THE CITY OF LANCASTER DEVELOPMENT ENGINEERING DIVISION AND PROVIDE FOR THE TEMPORARY OPERATION OF THE STREET LIGHTING SYSTEM.
15. THE PURCHASE AND INSTALLATION OF STREET NAME SIGNS AND MARKINGS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. THE DEVELOPER SHALL SECURE THE APPROVAL OF THE DEVELOPMENT ENGINEERING DIVISION FOR TYPE AND LOCATION OF THE STREET NAME SIGNS AND MARKINGS PRIOR TO INSTALLATION.
16. THE PURCHASE AND INSTALLATION OF STREET SWEEPING SIGNS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. THE DEVELOPER SHALL SECURE THE APPROVAL OF THE DEVELOPMENT ENGINEERING DIVISION FOR TYPE AND LOCATION OF THE STREET SWEEPING SIGNS PRIOR TO INSTALLATION.
17. APPROVED SIGNING AND STRIPING PLANS SHALL BE SUBJECT TO REVIEW AND REVISION BY THE CITY OF LANCASTER DEVELOPMENT ENGINEERING DIVISION IF NOT CONSTRUCTED WITHIN 12 MONTHS OF DATE OF CITY APPROVAL.
18. ANY STRIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION.
19. BLUE TWO-WAY REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN THE STREET ADJACENT TO FIRE HYDRANTS IN ACCORDANCE WITH CITY OF LANCASTER STANDARD FOR PLACEMENT OF FIRE HYDRANT MARKERS (PW-8).
20. A.C. PAVEMENT INSTALLED IN MULTIPLE LIFTS SHALL HAVE AT LEAST 2" IN THE FIRST LIFT AND AT LEAST 1-1/2" OF ASPHALT IN ALL SUCCEEDING LIFTS.
21. A.C. PAVEMENT SECTIONS 3-1/2" THICK AND GREATER SHALL BE CONSTRUCTED IN TWO LIFTS. A.C. PAVEMENT BASE COURSE SHALL BE TYPE B-PG70-10 WITH A MINIMUM 2" THICKNESS, AND THE FINAL LIFT FINISH AND MAX MEDIUM SHALL BE:
- A. TYPE C2-PG70-10 WITH A MINIMUM 1-1/2" THICKNESS ON NON-ARTERIAL STREETS, OR
- B. TYPE B-PG70-10 WITH A MINIMUM OF 2" THICKNESS, ON ARTERIAL STREETS (REGIONAL, PRIMARY AND SECONDARY) AND INDUSTRIAL STREETS PER SECTION 203 OF THE STANDARDS SPECIFICATIONS.
22. ALL INTERIOR RESIDENTIAL STREETS SHALL BE TREATED WITH RECLAMITE PRIOR TO COMPLETION OF THE ONE-YEAR MAINTENANCE PERIOD.
23. BEFORE WORKING IN THE AREA TO BE COLD-PLANED, THE CONTRACTOR IS TO STRETCH A STRING LINE BETWEEN THE LIP OF THE GUTTER AND STREET CENTERLINE AND DETERMINE WHETHER OR NOT THE EXISTING ASPHALT PAVEMENT SURFACE IS ABOVE OR BELOW THE LINE. HE SHALL ALSO DETERMINE THE OVERALL DEPTH OF THE EXISTING ASPHALT SECTION. SHOULD IT BE DETERMINED THAT, AFTER COLD PLANING OFF 1-1/2" OF ASPHALT BELOW THE TAUT STRING LINE, THE REMAINING ASPHALT IS LESS THAN THE MINIMUM REQUIRED TO MEET THE CITY OF LANCASTER STANDARD PAVEMENT SECTION; THEN THE ENTIRE SECTION (TO CENTERLINE) SHALL BE REMOVED AND REPLACED.
24. TRAFFIC CONTROL PLANS ON EXISTING ROADWAYS SHALL BE PREPARED BY A TRAFFIC OR CIVIL ENGINEER, REGISTERED IN THE STATE OF CALIFORNIA, AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY DEVELOPMENT ENGINEERING DIVISION, PRIOR TO PERMIT ISSUANCE. A TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR DETOURS THAT INVOLVE ANY OF THE FOLLOWING CONDITIONS:
- A. TRAFFIC CONTROL IS REQUIRED FOR MORE THAN 5 WORKING DAYS.
- B. MOVING TRAFFIC OVER THE STREET CENTERLINE DURING CONSTRUCTION.
- C. REDUCING THE NUMBER OF TRAVEL LANES BY MORE THAN ONE LANE DURING CONSTRUCTION.
- D. ANY STREET CONSTRUCTION WORK BEING PERFORMED WITHIN 250 OF AN EXISTING TRAFFIC SIGNAL OR AN ARTERIAL INTERSECTION.
- E. WHEN CLOSING A ROADWAY TO ONE OR MORE DIRECTIONS OF TRAVEL.
- F. DEEMED NECESSARY BY AN AUTHORIZED REPRESENTATIVE OF THE PUBLIC WORKS DEPARTMENT.
25. CONSTRUCTION OF IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ALL REQUIREMENTS OF THE TRAFFIC CONTROL PLANS DATED _____
- BY _____ RCE,
- ENTITLED _____

NOTES (CONT.)

26. CONSTRUCT STAMPED CONCRETE IN ACCORDANCE WITH CITY OF LANCASTER STAMPED CONCRETE SPECIFICATIONS (DPW0108) EXCEPT THE PATTERN SHALL BE RUSTIC SLATE AND THE COLOR SHALL BE RAT-TAN.
27. THE CONTRACTOR SHALL APPLY A SOIL SEALANT TO COVER ALL UNIMPROVED AREAS DISTURBED DURING CONSTRUCTION. THE SOIL SEALANT REQUIREMENT INCLUDING THE MIXING AND APPLICATION OF THE SEALANT SHALL BE PER THE CITY'S SPECIFICATIONS AND APPROVED BY THE DEVELOPMENT ENGINEERING DIVISION PRIOR TO APPLICATION.
28. CROSS GUTTERS SHALL BE CONSTRUCTED OVER 6" MINIMUM CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE DENSITY.
29. WHEN TUNNELING UNDER EXISTING CONCRETE, CROSS GUTTERS, CURB AND GUTTERS, AND SPANDRELS, THE BACKFILL SHALL BE 1-1/2 SACK SAND SLURRY (NO EXCEPTIONS) AND VIBRATED.
30. MAILBOXES AND POSTS SHALL BE INSTALLED PER CITY STANDARD. SUBMIT PLOT PLAN OF BUILDING ORIENTATION ON LOT AND LOCATION OF MAIL BOX AND POST TO THE U.S. POST OFFICE FOR APPROVAL PRIOR TO INSTALLATION
31. MONUMENTATION
- A. ALL EXISTING SURVEY MONUMENTS WITHIN THE CONSTRUCTION AREA SHALL BE LOCATED AND REFERENCED BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR PRIOR TO THE APPROVAL OF THE STREET PLANS. A CORNER RECORD OF THE EXISTING MONUMENTS AND REFERENCES SET TO PERPETUATE THE MONUMENTS SHALL BE FILED WITH THE COUNTY SURVEYOR PRIOR TO ISSUANCE OF A PERMIT TO START CONSTRUCTION.
- B. ALL NEW SURVEY MONUMENTS SHOWN AS TO BE SET ON A FINAL TRACT MAP OR PARCEL MAP SHALL BE SET PER THE RECORDED TRACT OR PARCEL MAP AND FIELD BOOK SURVEY NOTES SHALL BE FILED WITH THE CITY ENGINEER PRIOR TO THE ACCEPTANCE OF THE STREET IMPROVEMENTS.
- C. I HEREBY CERTIFY THAT I HAVE IDENTIFIED ALL EXISTING SURVEY MONUMENTS WITHIN THE CONSTRUCTION AREA. ALL SAID MONUMENTS WHICH CURRENTLY EXIST IN THE FIELD ARE SHOWN ON THESE PLANS AND ARE DESCRIBED AS FOLLOWS:
- _____
- _____
- _____
- _____
- DATE: _____ L.S. NO. 8767
- SURVEYOR'S NAME: W.R. GORMAN SIGNATURE: _____
32. ALL PCC CURB RAMPS SHALL INCLUDE A DETECTABLE WARNING SYSTEM, TO INCLUDE TRUNCATED DOMES, PER ADA REQUIREMENTS. THE DETECTABLE WARNING SYSTEM SHALL BE ARMOR-TILE CAST IN PLACE SYSTEM, OR APPROVED EQUAL. THE CONTRASTING COLOR SHALL BE YELLOW.
33. AS-BUILT PLANS AND ASSET/ATTRIBUTE DATA SHALL BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF IMPROVEMENTS.
34. WHEN IMPROVEMENT PLANS HAVE BEEN SUBMITTED TO THE CITY FOR CHECKING AND THE CHECKING PROCESS HAS BEEN INTERRUPTED FOR A PERIOD OF ONE YEAR OR MORE, THE PLANS SHALL BE DEEMED ABANDONED. APPROVED IMPROVEMENT PLANS FOR ALL SUBDIVISIONS SHALL BE DEEMED ABANDONED IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWO YEARS OF THE LATEST APPROVAL DATE (ONE YEAR FOR NON-SUBDIVISIONS). EXCEPT SIGNING AND STRIPING PLANS AS STATED IN GENERAL NOTE NUMBER 17 ABOVE. IF CONSTRUCTION IS INTERRUPTED FOR A PERIOD OF ONE YEAR OR MORE, THE PLANS SHALL BE DEEMED ABANDONED. ABANDONED PLANS SHALL BE RE-SUBMITTED FOR REVIEW AND ALL FEES SHALL BE PAID IN ACCORDANCE WITH THE CITY'S ABANDONED PLANS POLICY PRIOR TO ANY PERMITS BEING ISSUED.

CONDUCT OF CONSTRUCTION

THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK AND ENGINEER'S RIGHT TO INSPECT OR SUSPEND THE WORK IS LIMITED THERETO. THE ENGINEER WILL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OVER THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.

DECLARATION OF ENGINEER OF RECORD:

I HEREBY DECLARE THAT IN MY PROFESSIONAL OPINION, THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH THE CURRENT PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ACCEPT FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF LANCASTER IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THESE PLANS COMPLY WITH CITY STANDARDS/PROCEDURES AND OTHER APPLICABLE CODES AND ORDINANCES. THE PLAN REVIEW PROCESS IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT THEREFORE RELIEVE ME OF MY DESIGN RESPONSIBILITY.

SIGNATURE _____ DATE _____

LICENSE NO. C44094 EXP. 6/30/2019

ENGINEER'S CERTIFICATION

THE REGISTERED PROFESSIONAL ENGINEER CERTIFIES THAT THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE CITY OF LANCASTER ENGINEERING DESIGN GUIDELINES POLICES AND PROCEDURES.

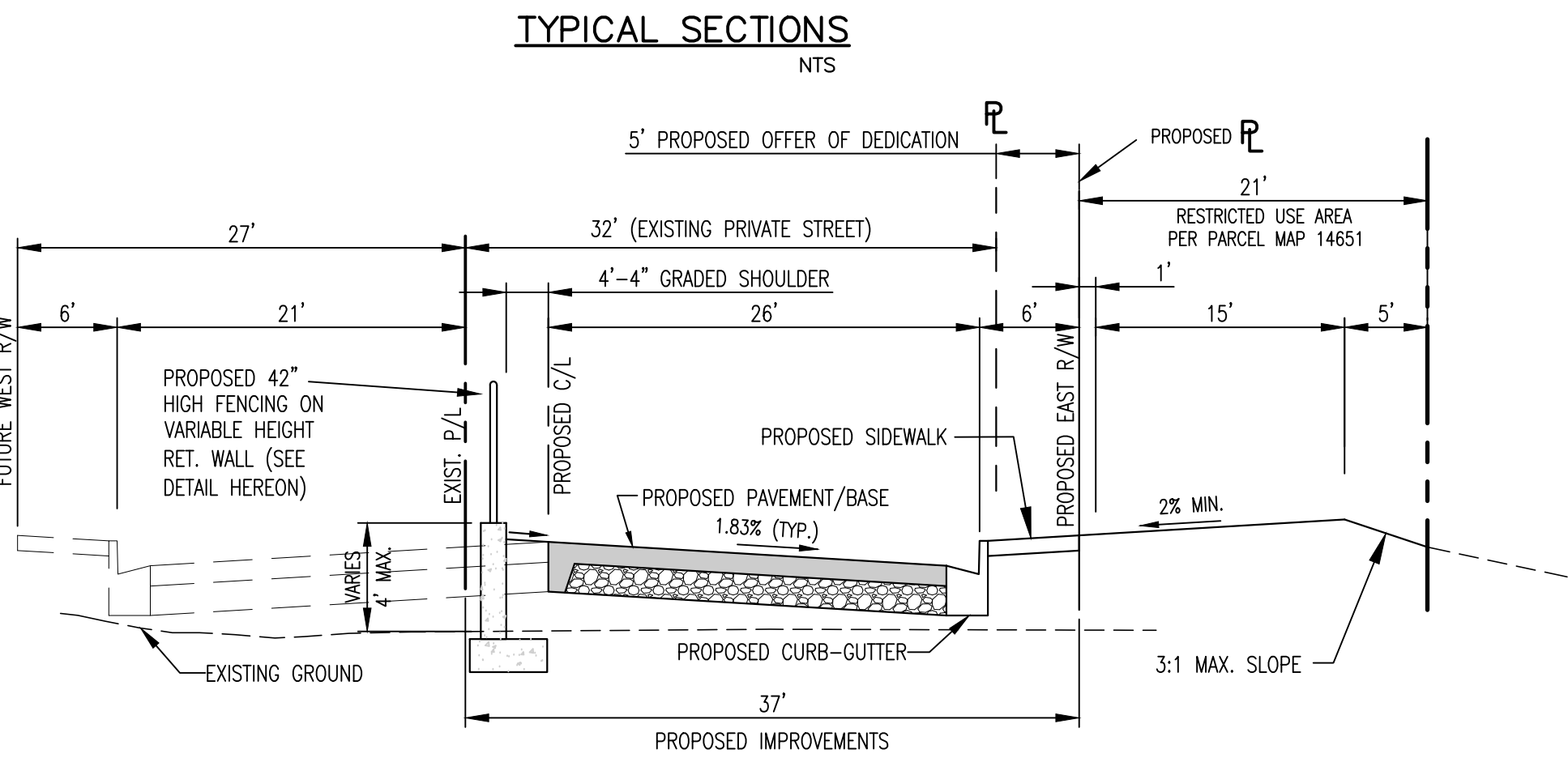
RETAINING WALL GENERAL NOTES

- GROUT WALLS SOLID, CEMENT PER ASTM C150.
1 PART PORTLAND CEMENT
2 TO 3 PARTS LOOSE SAND
2 PARTS COARSE AGGREGATE
- REINFORCING STEEL: F_s=20,000 PSI,
ASTM A165 GRADE 40,
LAP ALL STEEL MINIMUM OF 40x DIAMETER.
- CONCRETE: F_c=2,500 PSI @ 28 DAYS, CEMENT PER ASTM C150.
- MASONRY: F_m=1,500 PSI, ASTM C-90, NORMAL WEIGHT
- POUR FOOTINGS AGAINST COMPACTED SOIL PER SOILS REPORT
- INSTALL MOISTURE BARRIER ON BACKSIDE OF WALL.
- INSTALL WALL DRAIN PER DETAILS AND OUTLET PER PLAN.
- INSTALL WALL EXPANSION JOINTS AT 40' O.C. (MAX.)

NOTE TO CONTRACTOR:

ALL MONUMENTS FOUND AS INDICATED IN GENERAL NOTE 31 ABOVE SHALL BE TIED OUT BY A LICENSED LAND SURVEYOR PRIOR TO START OF CONSTRUCTION AND THE NOTES SUBMITTED TO THE CITY OF LANCASTER ENGINEERING DIVISION (MR. JOHN FELKINS). ANY MONUMENT DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AND A CORNER RECORD FILED WITH THE COUNTY OF LOS ANGELES. A FILED COPY SHALL BE SUBMITTED TO THE CITY.

CITY OF LANCASTER
S.P.R. 17-04
STREET IMPROVEMENT PLANS

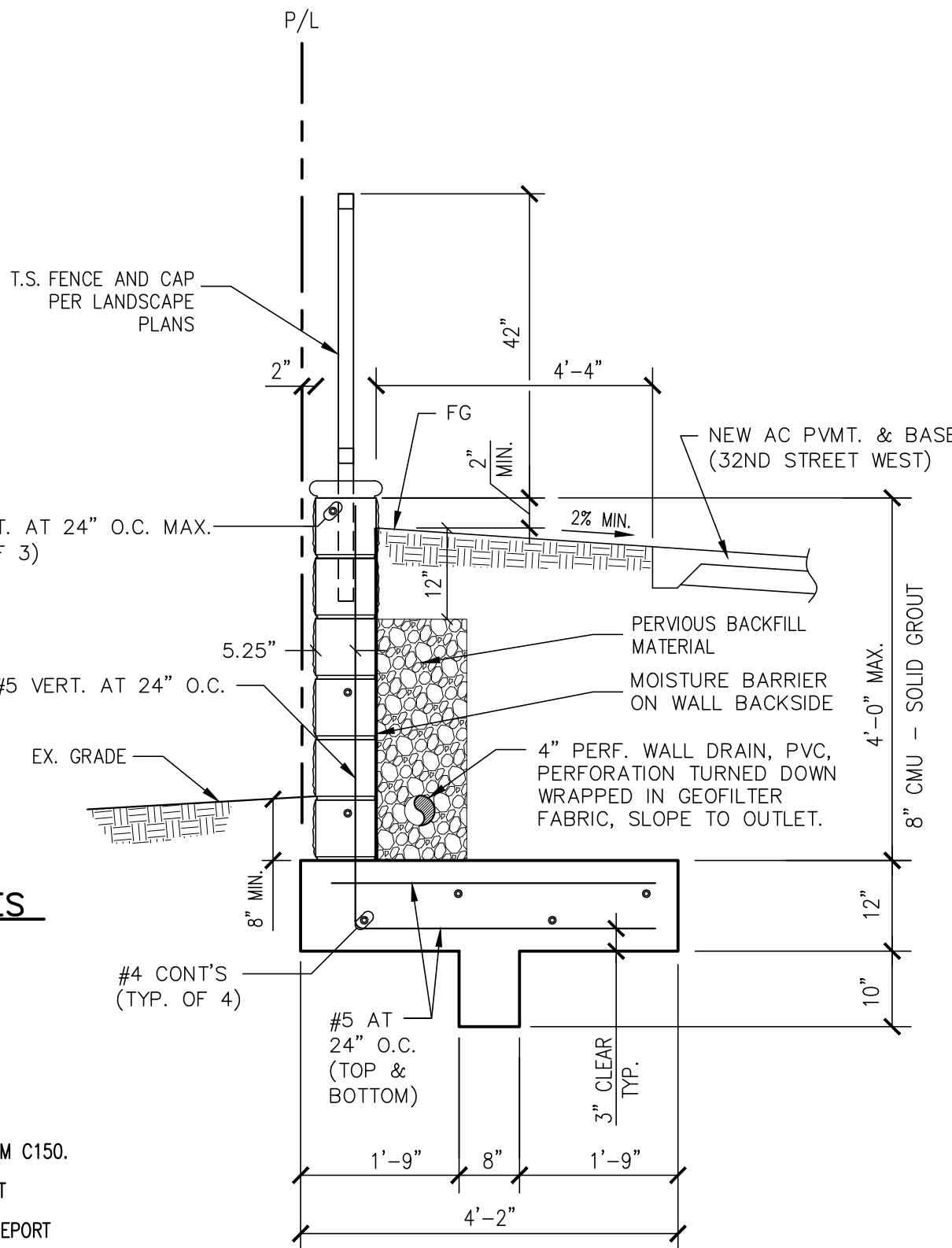


32ND ST. WEST TYPICAL SECTION
PRIVATE AND FUTURE STREET

PVMT. HATCHING

- _____ EARTH
- _____ NEW AC PAVEMENT
- _____ AGG. BASE

A.C. PVMT. PER PLAN

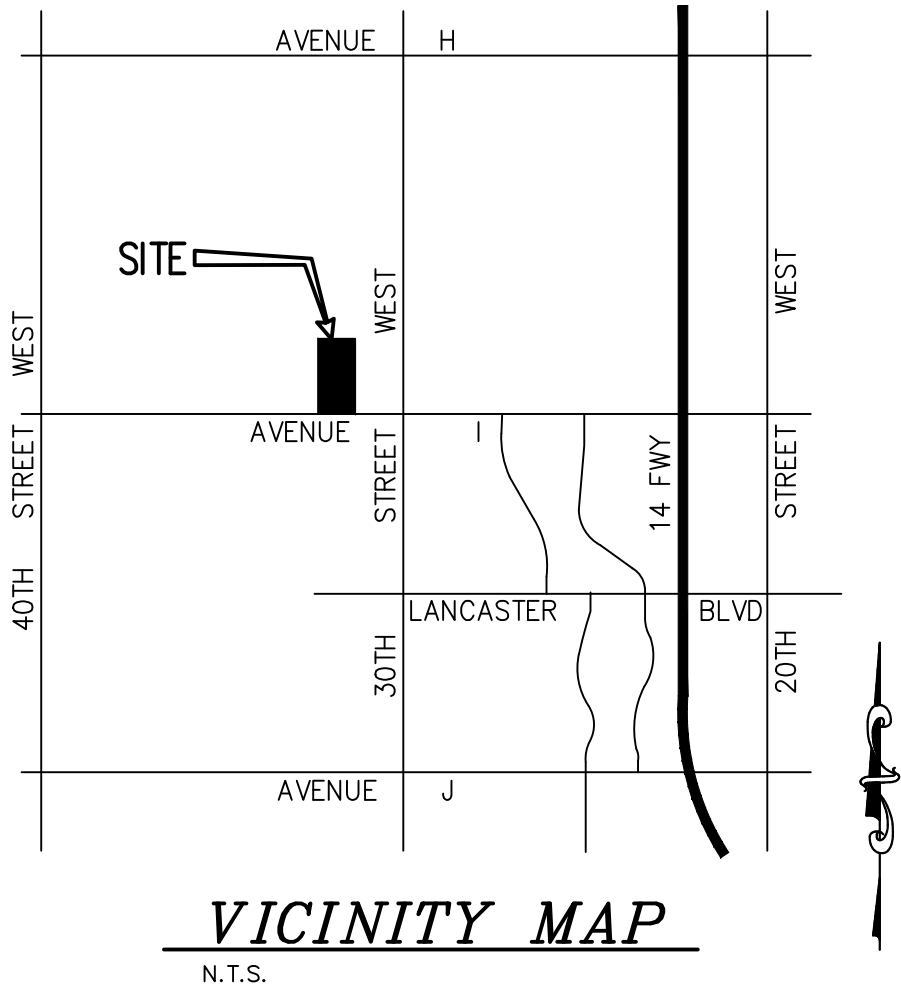


RETAINING WALL
NTS

CHECKED BY: _____ DATE _____

REVIEWED BY: _____ DATE _____

APPROVED BY: _____ DATE _____



VICINITY MAP
N.T.S.

BENCH MARK: L 5760
ELEV. 2320.174

LS TAG IN N CB 1FT W/O BCR @ NW
COR AVE I & 30TH ST W 52.5FT N/O &
100FT W/O C/L INT

LANCASTER QUAD (2012 ADJUSTMENT)
NAVD 88 DATUM

LEGEND:

- BW = BACK OF WALK
- CF = CURB FACE
- (XX.XX) = EXISTING ELEVATION
- EP = EDGE OF PAVEMENT
- FG = FINISHED GRADE
- FL = FLOWLINE
- FS = FINISHED SURFACE
- GB = GRADE BREAK
- GP = HIGH POINT
- INV = INVERT ELEV.
- NG = NATURAL GROUND
- PSD = PRESSURE STORM DRAIN
- RL = RIDGE LINE
- SD = STORM DRAIN
- SW = SIDEWALK
- TC = TOP OF CURB
- TG = TOP OF GRATE
- UNO = UNLESS NOTED OTHERWISE
- (2450) --- = EXISTING CONTOURS
- = PROPERTY LINE
- ===== = PROPOSED C.M.U. BLOCKWALL

DRAWING SHEET INDEX

NO.	DESCRIPTION
ST-1	TITLE SHEET & STREET TYPICAL SECTION
ST-2	32ND STREET WEST
ST-3	32ND STREET WEST (PROPOSED AND FUTURE)

CITY OF LANCASTER

STREET IMPROVEMENT PLANS

S.P.R. 17-04

COVER SHEET

VICINITY MAP
SHEET INDEX
LEGEND

GENERAL NOTES
BENCH MARK

DRAWING FILE: 18022/DWG/STREETS.dwg

ST1 of 3

"AS-BUILTS"

BASED UPON INFORMATION SUPPLIED BY THE CITY
INSPECTOR AND CONTRACTOR (NOT) FIELD VERIFIED.

ENGINEER: BARRY S. MUNZ R.C.E. 44094 DATE _____

APPROVED BY: _____ RCE,

CITY ENGINEERING DATE _____

PLANS PREPARED UNDER THE SUPERVISION OF BARRY S. MUNZ FOR

WHEN LIFE HANDS YOU LEMONS, LP

(SIGNATURE) _____
44094 6-30-19 18022
RCE# EXP. DATE PROJECT

Antelope valley
engineering inc.

129 WEST PONDERA STREET
LANCASTER, CA. 93534
PHONE: (661) 948-0805

DRAWN BY: _____

CITY ENGINEERING DATE _____

CHECKED BY: _____

BSM

RECORD
RCE

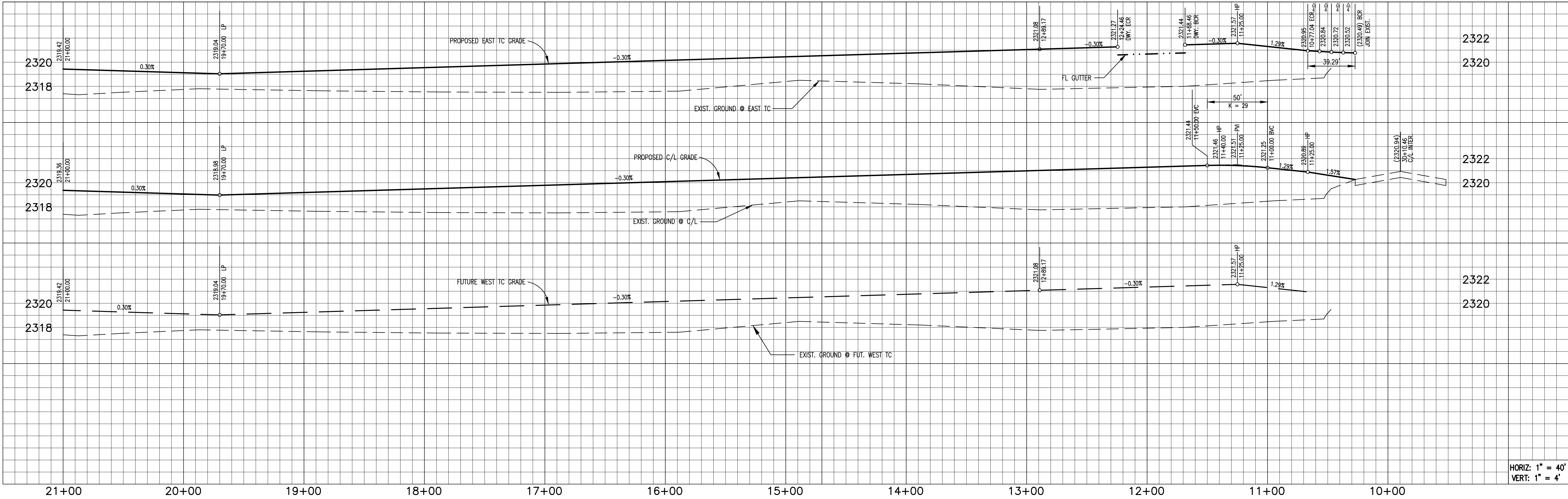
REV# APPR DATE

REVISION BLOCK

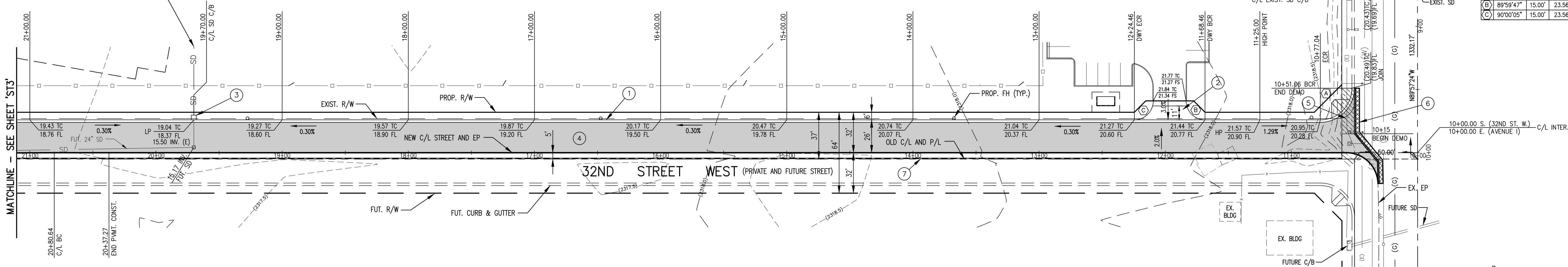
REVISION DESCRIPTION

CITY

APPR DATE



SEE SHEET C2.20 (ON-SITE STORM DRAIN PLANS) FOR CONTINUATION OF 8" SD PIPE

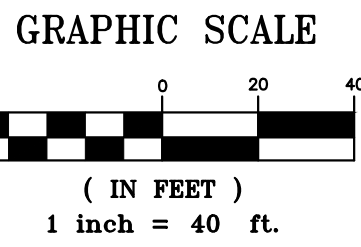


CURB RETURN AND CURVE DATA			
NO.	DELTA	RAD.	LEN.
A	90°02'49"	25.00'	39.29'
B	89°59'47"	15.00'	23.56'
C	90°00'05"	15.00'	23.56'

CONSTRUCTION NOTES:

- CONSTRUCT P.C.C. CURB AND 2" GUTTER TYPE A2-8 (200) PER S.P.P.W.C. STANDARD PLAN 120-2 ON 6" AGGREGATE BASE. SEE GENERAL NOTES 11 AND 12 ON SHEET 'ST1'.
- CONSTRUCT COMMERCIAL DRIVEWAY APPROACH PER S.P.P.W.C. STANDARD PLAN 110-2, TYPE C, 'R'=15', 'Y'=11'.
- CONSTRUCT 3.5' WIDE CURB OPENING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN 300-3, MODIFIED W/FLAT BOTTOM.
- CONSTRUCT NEW 4" THICK A.C. PAVEMENT ON 12" THICK CRUSHED AGGREGATE BASE. SEE GENERAL NOTES 8, 9, 18, 19 AND 21 TYPICAL SECTION(S) ON SHT. ST-1.
- REMOVE EXISTING CURB, GUTTER AND SIDEWALK FROM STA. 10+15.00 TO STA. 10+51.06.
- SAWCUT AND REMOVE 1' EXISTING PAVEMENT EDGE AND 1 1/2" MIN. COLD PLANE, 3' MIN. WIDTH OF EXISTING ASPHALT AND CONSTRUCT NEW PAVEMENT SECTION AND OVERLAY.
- CONSTRUCT RETAINING WALL PER DETAILS ON SHT. ST-1

* ADD 2300 FEET TO ALL PLAN VIEW ELEVATIONS



"AS-BUILTS"

BASED UPON INFORMATION SUPPLIED BY THE CITY INSPECTOR AND CONTRACTOR (NOT) FIELD VERIFIED.

ENGINEER: BARRY S. MUNZ R.C.E. 44094 DATE _____

APPROVED BY: _____

PLANS PREPARED UNDER THE SUPERVISION OF BARRY S. MUNZ FOR

WHEN LIFE HANDS YOU LEMONS, LP

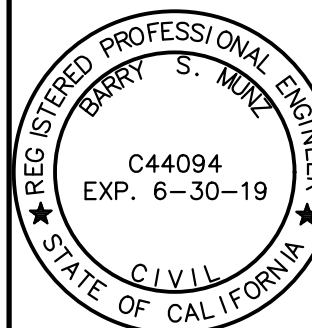
(SIGNATURE) _____
Antelope valley engineering inc.
129 WEST PONDERA STREET
LANCASTER, CA. 93534
PHONE: (661) 948-0805

DRAWN BY: _____

KER

CHECKED BY: _____

BSM



RECORD RCE		
REV#	APPR	DATE
1		

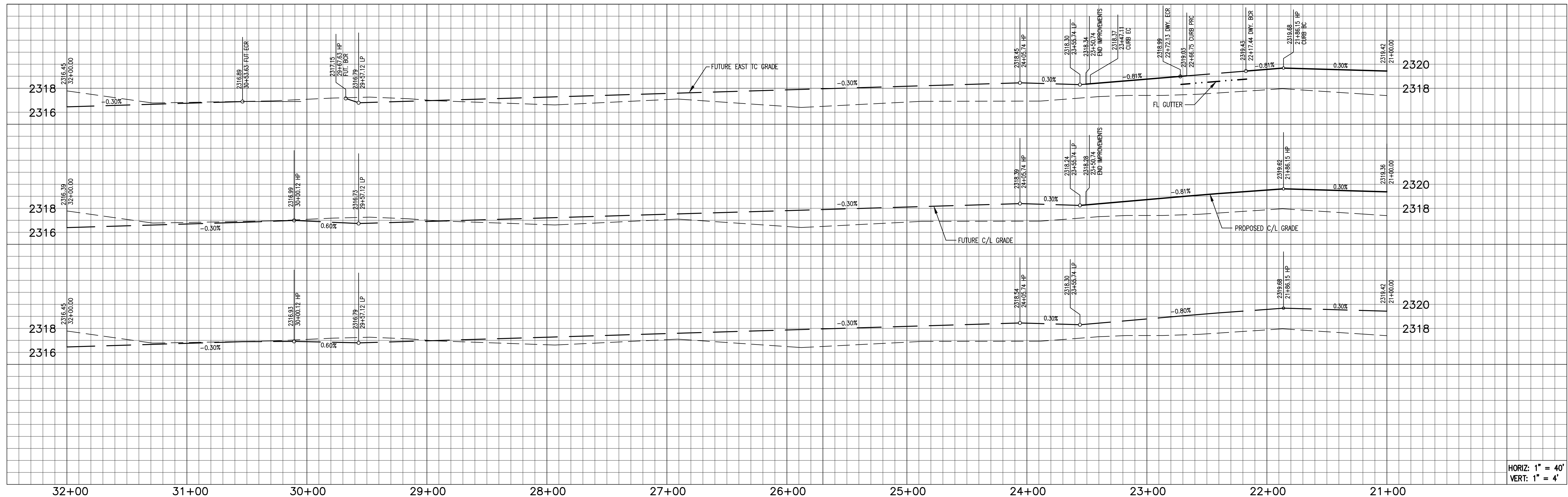
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REVISION DESCRIPTION	

CITY	
APPR	DATE

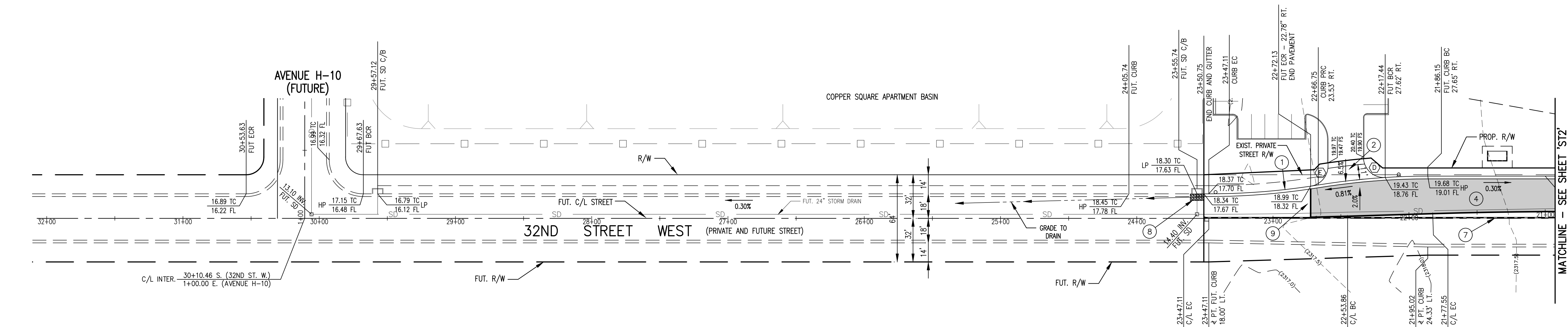
CITY OF LANCASTER
STREET IMPROVEMENT PLANS
S.P.R. 17-04
32ND STREET WEST
(PRIVATE AND FUTURE STREET)
STA. 10+00 TO STA. 21+00

CHECKED BY:

DATE

HORIZ: 1" = 40'
VERT: 1" = 4'

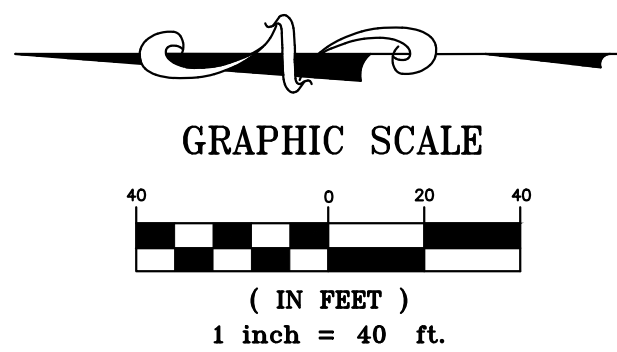
CURB RETURN AND CURVE DATA			
NO.	DELTA	RAD.	LEN.
(D)	89°59'47"	15.00'	23.56'
(E)	90°00'13"	15.00'	23.56'

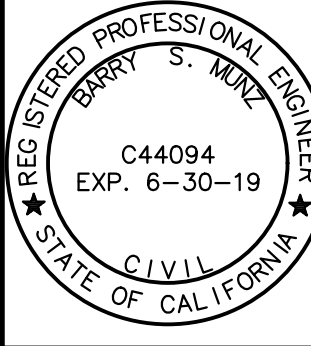


CONSTRUCTION NOTES:

- 1 CONSTRUCT P.C.C. CURB AND 2" GUTTER TYPE A2-8 (200) PER S.P.P.W.C. STANDARD PLAN 120-2 ON 6" AGGREGATE BASE. SEE GENERAL NOTES 11 AND 12 ON SHEET 'ST1'.
- 2 CONSTRUCT COMMERCIAL DRIVEWAY APPROACH PER S.P.P.W.C. STANDARD PLAN 110-2, TYPE C, 'R'=15', 'Y'=11'.
- 4 CONSTRUCT NEW 4" THICK A.C. PAVEMENT ON 12" THICK CRUSHED AGGREGATE BASE. SEE GENERAL NOTES 8, 9, 18, 19 AND 21 TYPICAL SECTION(S) ON SHT. ST-1.
- 7 CONSTRUCT RETAINING WALL PER DETAILS ON SHT. ST-1
- 8 CONSTRUCT 5' x 10', 6"-12" GROUTED RIP-RAP (MIN. 18" THK.) W/6" MIN. EMBEDMENT.
- 9 CONSTRUCT TYPE III BARRICADE PER CITY OF LANCASTER STD. PLAN PW-5.

* ADD 2300 FEET TO ALL PLAN VIEW ELEVATIONS



"AS-BUILTS" BASED UPON INFORMATION SUPPLIED BY THE CITY INSPECTOR AND CONTRACTOR (NOT) FIELD VERIFIED. ENGINEER: BARRY S. MUNZ R.C.E. 44094 DATE APPROVED BY: _____ DATE		PLANS PREPARED UNDER THE SUPERVISION OF BARRY S. MUNZ FOR WHEN LIFE HANDS YOU LEMONS, LP (SIGNATURE) _____ 44094 6-30-19 18022 RCE# EXP. DATE PROJECT Antelope valley engineering inc. 129 WEST PONDERA STREET LANCASTER, CA. 93534 PHONE: (661) 948-0805 DRAWN BY: KER CHECKED BY: BSM		 RECORD RCE REV# APPR DATE REVISION BLOCK REVISION DESCRIPTION CITY APPR DATE		CITY OF LANCASTER STREET IMPROVEMENT PLANS S.P.R. 17-04 32ND STREET WEST (PRIVATE AND FUTURE STREET) STA. 21+00 TO STA. 30+10.46 DRAWING FILE: 18022/DWG/STREETS.dwg ST3 of 3	
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