

# CLOUD PRESCHOOL CVWD FIRE UTILITY PROJECT

4444 CLOUD AVENUE, LA CRESCENTA, CALIFORNIA 91214

## GLENDALE UNIFIED SCHOOL DISTRICT

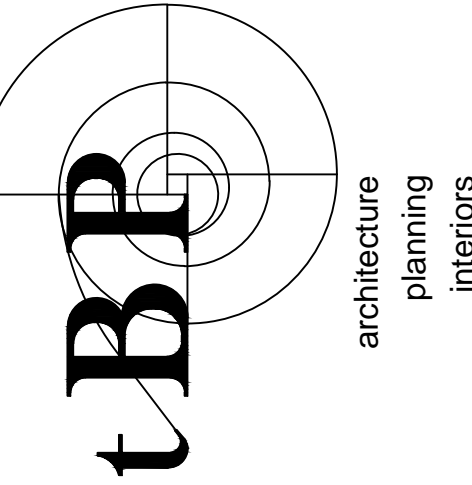
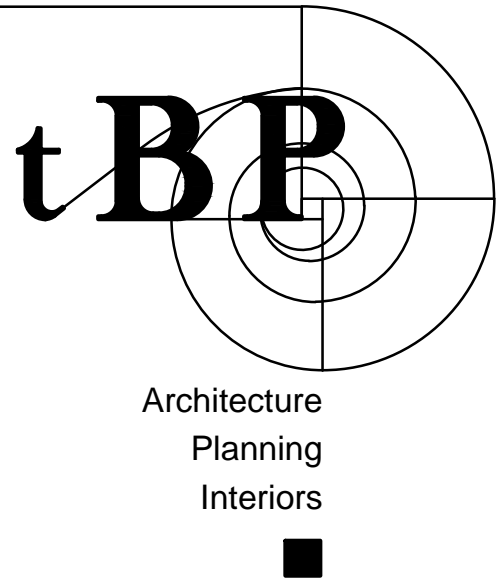


VICINITY MAP

REGIONAL MAP

**tBP /Architecture**

4611 Teller Avenue - Newport Beach - California - 92660  
<http://www.tbparchitecture.com>  
 ph: 949.673.0300 - fx: 949.732.3895



tBP/Architecture  
 4611 Teller Avenue  
 Newport Beach, CA 92660  
 ph: 949.673.0300 fx: 949.732.3895

architect

CLOUD PRESCHOOL  
 CVWD FIRE UTILITY PROJECT  
 4444 CLOUD AVENUE  
 LA CRESCENTA, CALIFORNIA 91214  
 GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number:	20778.15
file name:	
drawn by:	checked by:
date:	September 27, 2019
Rev:	date: description:

THIS DRAWING AND THE DESIGNS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE UNPUBLISHED WORK OF tBP/ARCHITECTURE AND SHALL REMAIN THE PROPERTY OF tBP/ARCHITECTURE IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE ADVANCED EXPRESS WRITTEN CONSENT OF tBP/ARCHITECTURE.

drawing title:  
**COVER SHEET**

drawing no.:  
**T-1**  
 drawing of



ABBREVIATIONS

Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Includes terms like ANCHOR BOLT, ASPHALTIC CONCRETE, LABORATORY, LAVATORY, POUND, LIGHT, MATERIAL, MAXIMUM, MECHANICAL, MEDIUM, MANUFACTURER, MANHOLE, MINIMUM, MISCELLANEOUS, METAL, MOUNTED, NEW, NOT IN CONTRACT, NUMBER, NOMINAL, NOT TO SCALE, ON CENTER, OUTSIDE DIAMETER, OVERFLOW DRAIN, OWNER FURNISHED-CONTRACTOR, INSTALLED, OWNER FURNISHED-OWNER, OPENING, OPPOSITE, OVERHEAD, PANIC HARDWARE, PLASTIC LAMINATE, PLUMBING, PLYWOOD, PANEL, PAIR, PROJECT, PAINT SEMI-GLOSS, POUNDS PER SQUARE INCH, POLYVINYL CHLORIDE, QUANTITY, RADIUS, ROOF DRAIN, REFERENCE, REINFORCING, REQUIRED, RESILIENT, ROUGH OPENING, STORM DRAIN, SQUARE FOOT, SHEET, SIMILAR, SPECIFICATIONS, SQUARE, STAINLESS STEEL, SOUND TRANSMISSION CLASS, STANDARD, STEEL, STORAGE, STRUCTURAL, SUSPENDED, SYMBOL, T. & B. TOP AND BOTTOM, T.C. TOP OF CURB, TRENCH DRAIN, TECHNICAL, THICK, THROUGH, TOP OF, TOP OF PARAPET, TOTAL, TOP OF PAVING, TYPICAL, UNLESS NOTED OTHERWISE, UNDERSIDE OF STRUCTURE, VINYL COMPOSITION TILE, VESTIBULE, VEST, WITH, WATER CLOSET, WOOD, WAINSCOT, WEIGHT.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:
2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.
2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
PARTIAL LIST OF APPLICABLE STANDARDS
2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35
NFPA 13 AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED) 2016 EDITION
NFPA 14 STANDPIPE SYSTEMS (CALIFORNIA AMENDED) 2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
NFPA 20 STATIONARY PUMPS 2016 EDITION
NFPA 24 PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED) 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") 2016 EDITION
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVE 2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2006 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED) 2015 EDITION

SCOPE OF WORK

THE PROJECT CONSISTS OF THE INSTALLATION OF A 8" WATER MAIN ON CLOUD AVENUE FROM FOOTHILL BLVD. TO COMMUNITY AVENUE.

DRAWING LIST (TOTAL NO. OF DRAWINGS - 4)

GENERAL (NO. OF DRAWINGS - 2)
T-1 COVER SHEET
T-2 SHEET INDEX

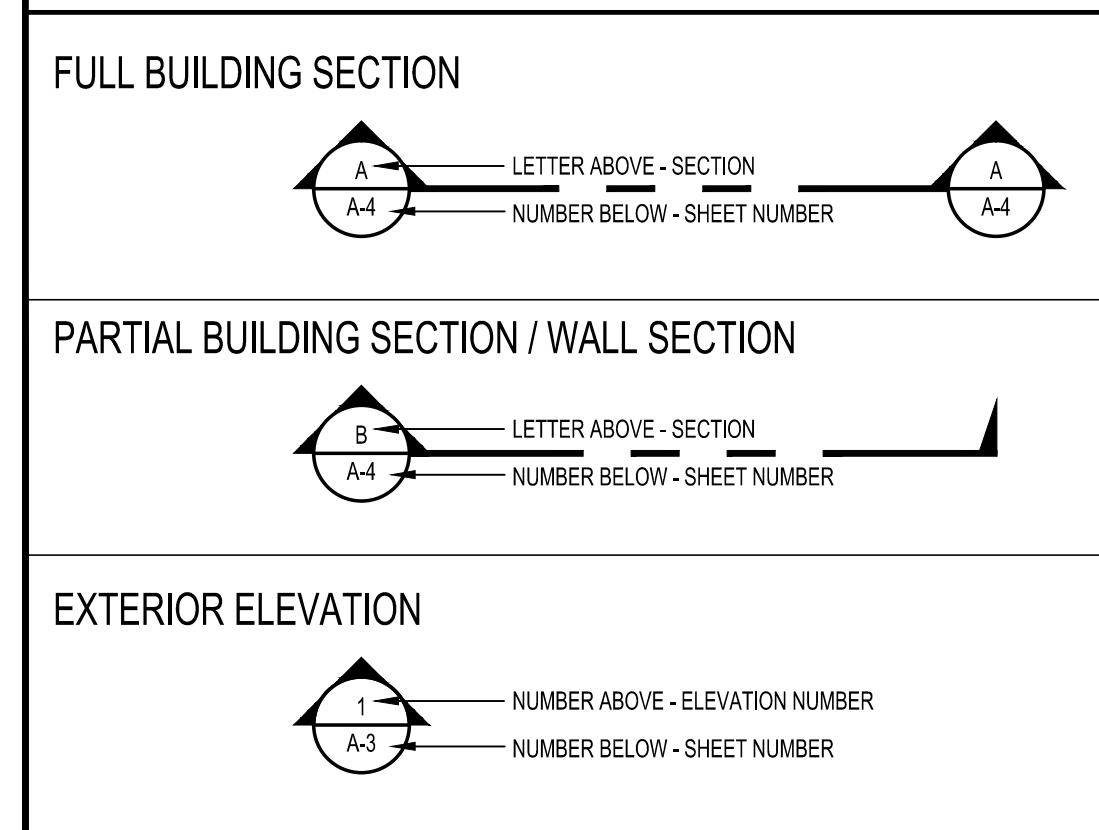
CIVIL DRAWINGS (NO. OF DRAWINGS - 2)
1 OVERALL SITE PLAN
2 ENLARGED SITE PLANS AND DETAILS

PROJECT DIRECTORY

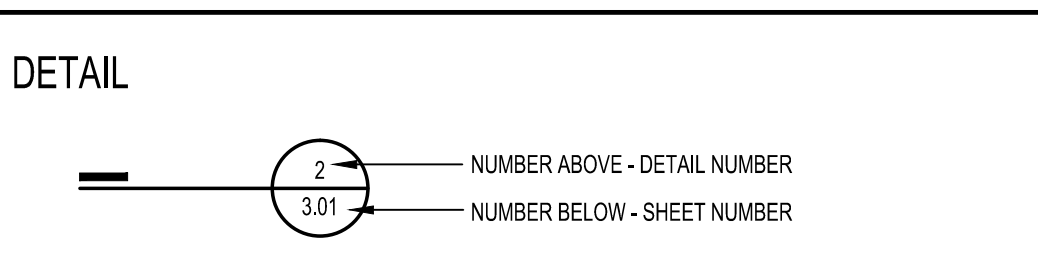
OWNER: GLENDALE UNIFIED SCHOOL DISTRICT
349 WEST MAGNOLIA
GLENDALE, CA 91204
T: (818) 507-0201
ARCHITECT: iBP/ARCHITECTURE
4611 TELLER AVENUE
NEWPORT BEACH, CA 92660
T: (949) 673-0300

CIVIL ENGINEER: VCA ENGINEERS, INC.
3951 MEDFORD STREET
LOS ANGELES, CA 90063
T: (323) 729-6098 F: (323) 729-6043
WATER DISTRICT: CRESCENTA VALLEY WATER DISTRICT
2700 FOOTHILL BLVD.
LA CRESCENTA, CA 91214
T: (818) 248-3925 F: (818) 248-2659

REFERENCE SYMBOLS



DETAIL



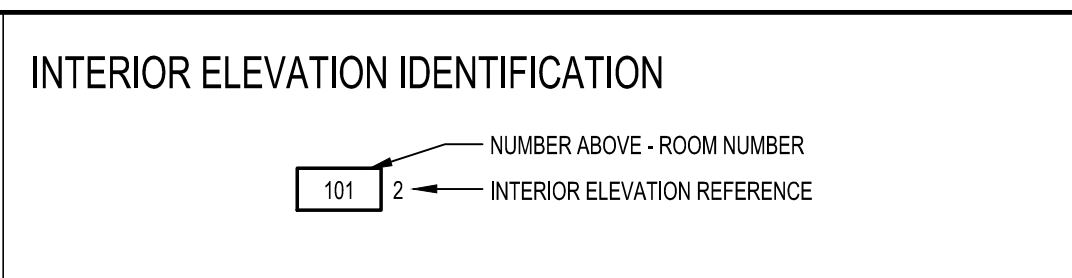
DOOR NUMBER IDENTIFICATION



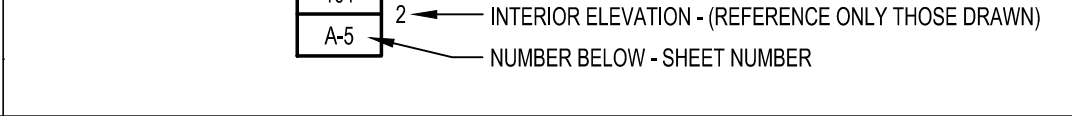
TOILET ACCESSORY IDENTIFICATION



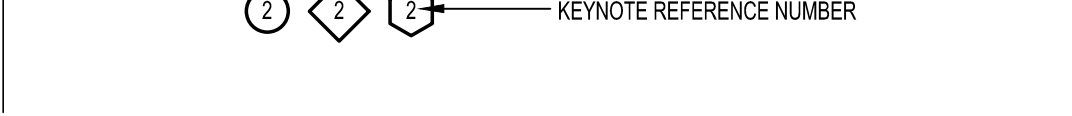
INTERIOR ELEVATION IDENTIFICATION



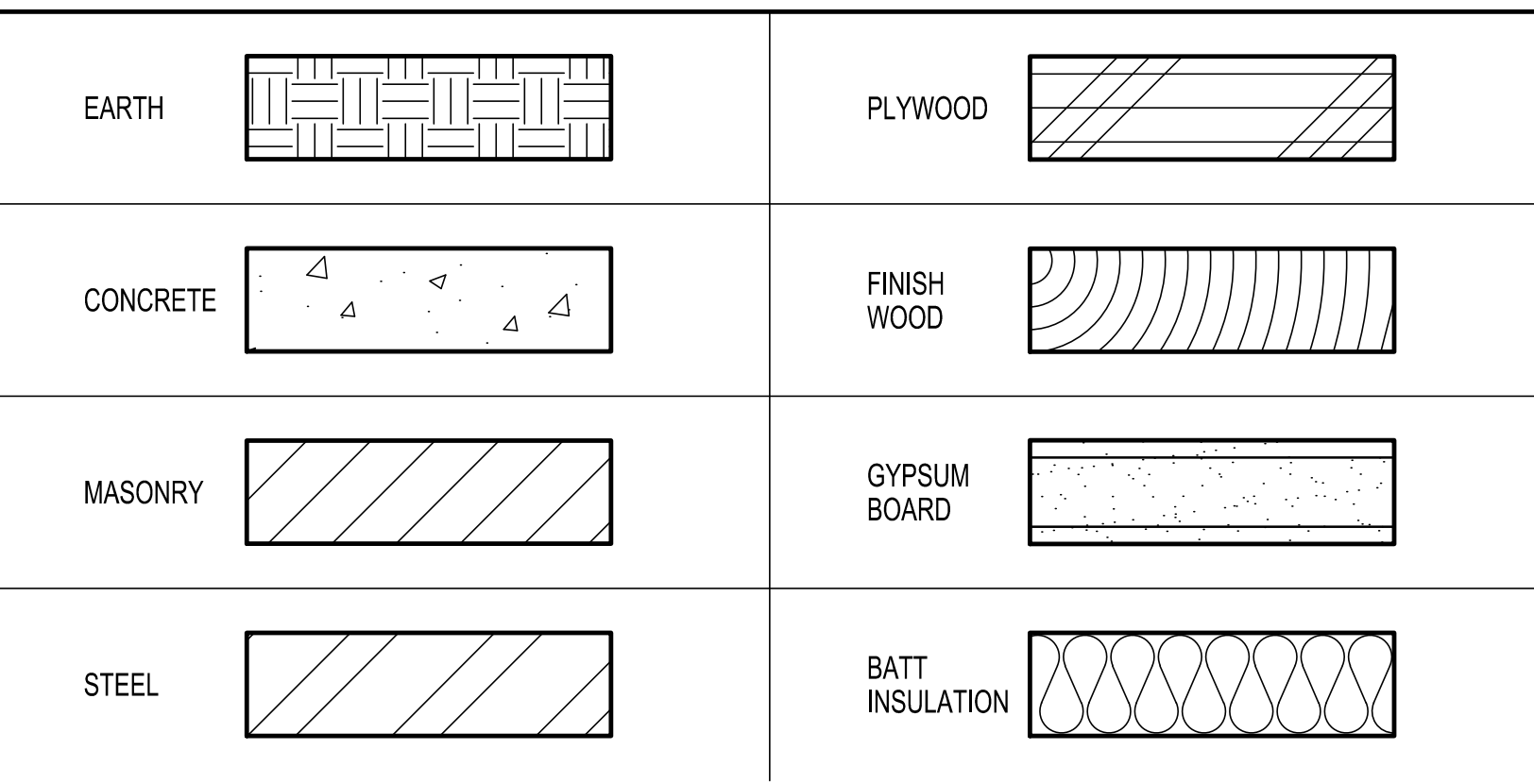
ROOM IDENTIFICATION W/ INTERIOR ELEVATION REFERENCES



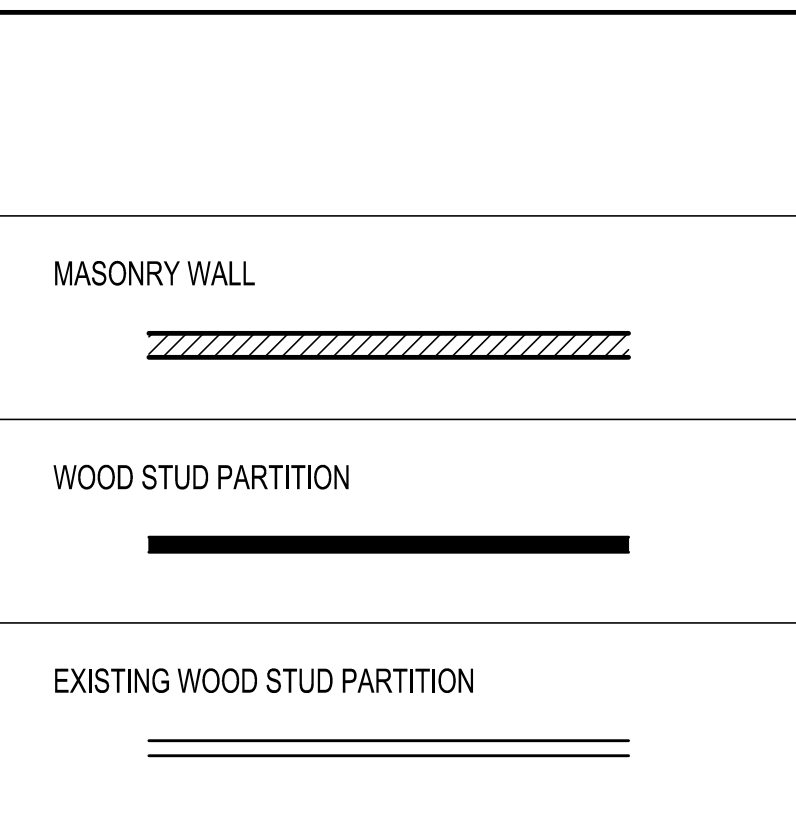
KEYNOTE REFERENCE



MATERIAL SYMBOLS



WALL TYPES



Header area with iBP logo (Architecture, Planning, Interiors), circular seal of the State of California, and project title: CLOUD PRESCHOOL CWWD FIRE UTILITY PROJECT. Address: 4444 CLOUD AVENUE, LA CRESCENTA, CALIFORNIA 91214.

Project title and location: CLOUD PRESCHOOL CWWD FIRE UTILITY PROJECT. Address: 4444 CLOUD AVENUE, LA CRESCENTA, CALIFORNIA 91214. Owner: GLENDALE UNIFIED SCHOOL DISTRICT.

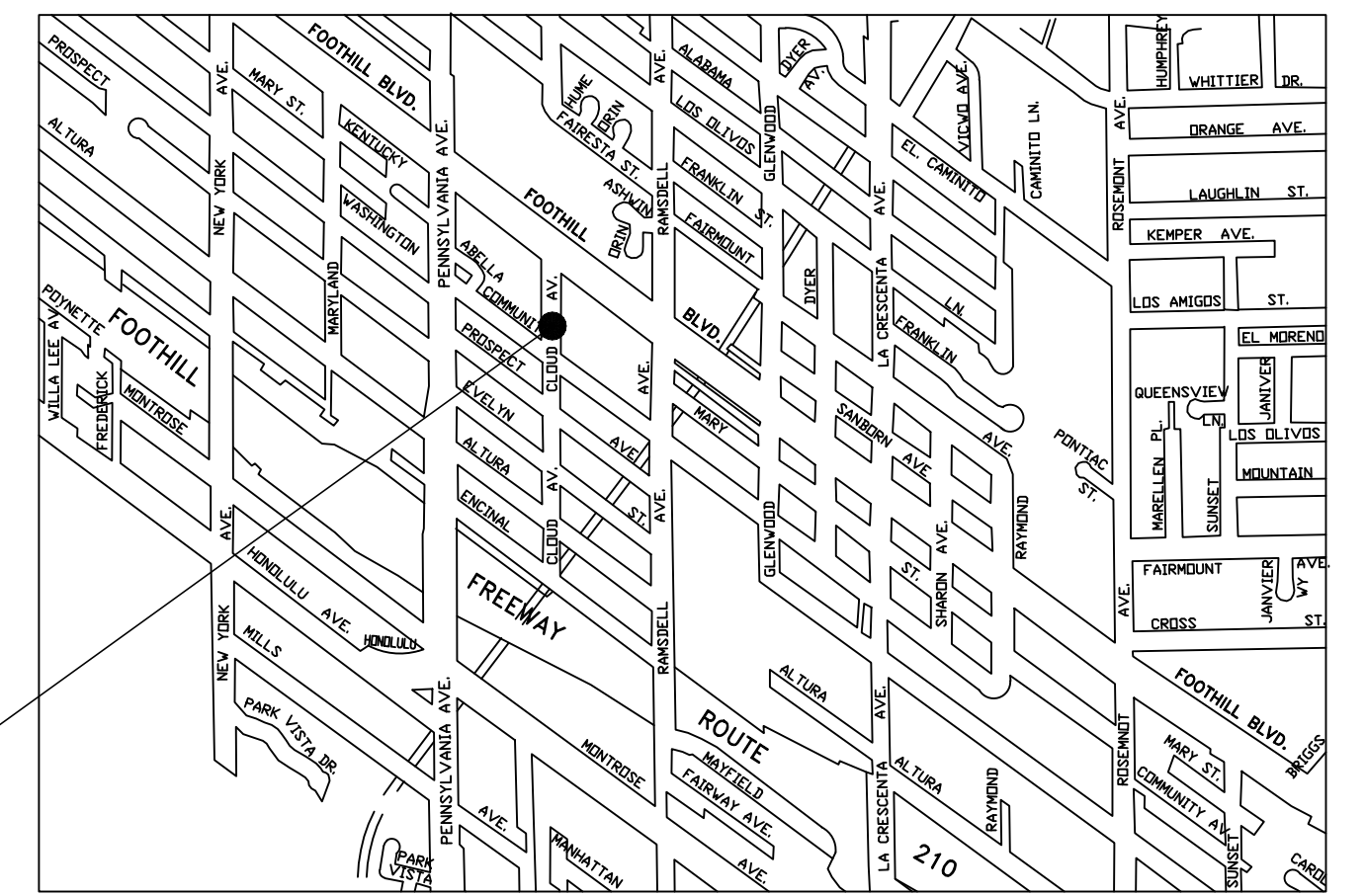
iBP project number: 20778.15
file name:
drawn by: checked by:
date: September 27, 2019
Rev: date: description:

drawing title: SHEET INDEX
drawing no.: T-2 drawing of



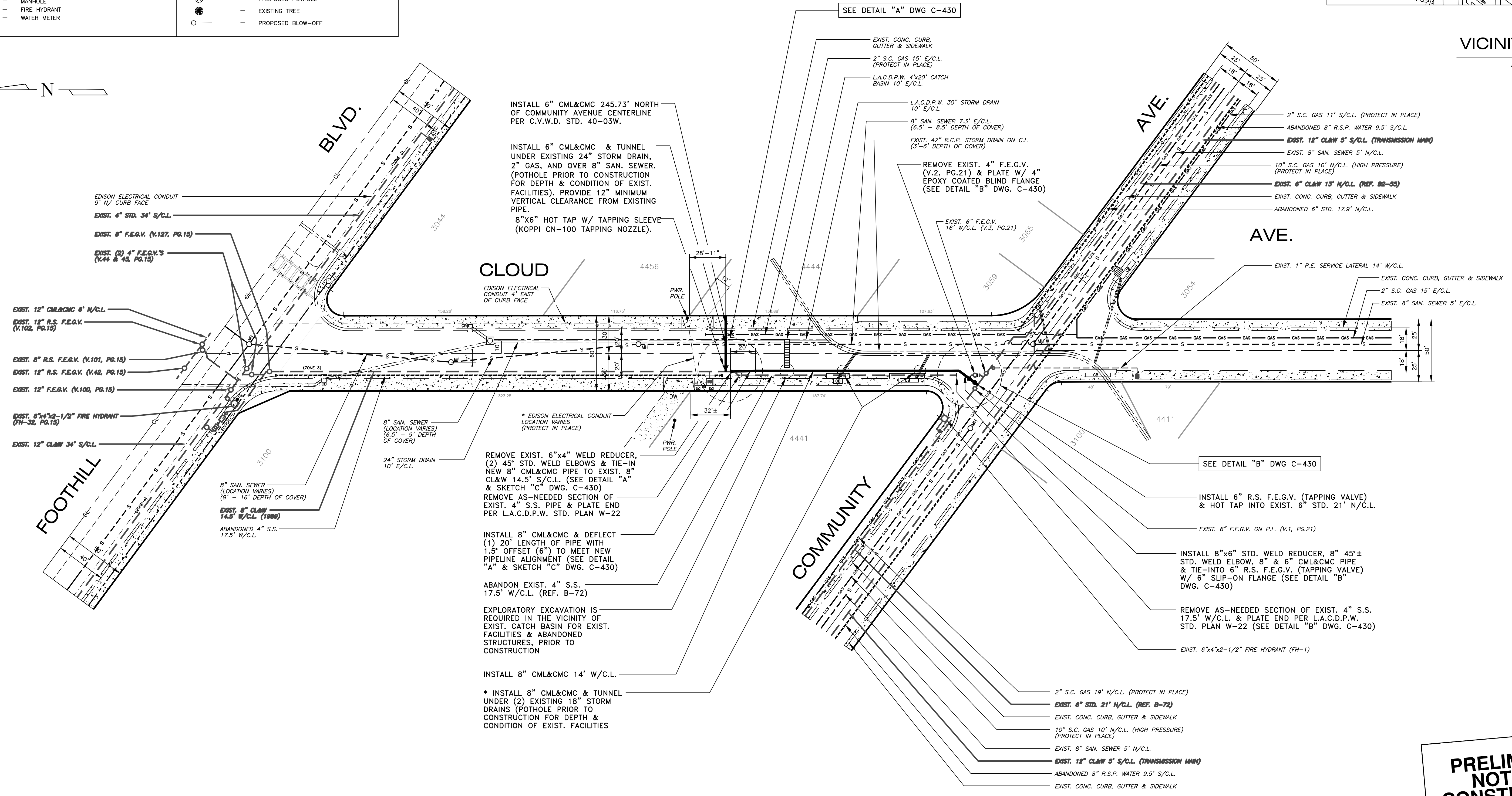
**SYMBOLS & ABBREVIATIONS**

C.V.W.D.	CRESCENTA VALLEY WATER DISTRICT	P.P.	POWER POLE
S.C. GAS	SOUTHERN CALIFORNIA GAS COMPANY	TS	TRAFFIC SIGNAL
C. OF G.	CITY OF GLENDALE	F.E.	FLANGED END
L.A. CO.	LOS ANGELES COUNTY	G.V.	GATE VALVE
L.A.C.D.P.W.	LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS	R.S.	RESILIENT SEAT
PAC BELL	PACIFIC BELL	F.E.B.V.	FLANGED END BUTTERFLY VALVE
AT&T	AT&T CORPORATION	CONC.	CONCRETE
EDISON	SOUTHERN CALIFORNIA EDISON COMPANY	A.C. P.V.M.T.	ASPHALT CONCRETE PAVEMENT
C.A.T.V.	CHARTER COMMUNICATIONS CABLE	P.C.C.	PORTLAND CEMENT CONCRETE
L.C.I.D.	LA CANADA IRRIGATION DISTRICT	EXIST.	EXISTING
F.M.W.D.	FOOTHILL MUNICIPAL WATER DISTRICT	STD.	STANDARD
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	STD. DWG.	STANDARD DRAWING
AWWA	AMERICAN WATER WORKS ASSOCIATION	□	EXISTING WATER METER BOX
C.L.	CENTER LINE	—	PROPOSED BLOW-OFF
P.L.	PROPERTY LINE	—	PROPOSED AIR RELEASE ASSEMBLY
N/C.L.	NORTH OF CENTER LINE	—	STEEL METER BOX TRAFFIC LID
S/C.L.	SOUTH OF CENTER LINE	—	PROPOSED 6" x 4" x 2-1/2" FIRE HYDRANT
CL&W	CEMENT MORTAR LINED & WRAPPED STEEL PIPE	—	PROPOSED GATE VALVE
CML&CMC	CEMENT MORTAR LINED & CEMENT MORTAR COATED	—	EXISTING GATE VALVE
C.I. OR C.I.P.	CAST IRON PIPE	—	ELECTRICAL BOX
O.D.	OUTSIDE DIAMETER	—	STREET LIGHT
I.D.	INSIDE DIAMETER	—	TRAFFIC SIGNAL
R.C.P.	REINFORCED CONCRETE PIPE	—	PROPOSED POTHOLE
S.S.	STANDARD STEEL PIPE	—	EXISTING TREE
M.H.	MANHOLE	—	PROPOSED BLOW-OFF
F.H.	FIRE HYDRANT		
W.M.	WATER METER		



**VICINITY MAP**

N.T.S.



INSTALL 6" CML&CMC 245.73' NORTH OF COMMUNITY AVENUE CENTERLINE PER C.V.W.D. STD. 40-03W.

INSTALL 6" CML&CMC & TUNNEL UNDER EXISTING 24" STORM DRAIN, 2" GAS, AND OVER 8" SAN. SEWER. (POTHOLE PRIOR TO CONSTRUCTION FOR DEPTH & CONDITION OF EXIST. FACILITIES). PROVIDE 12" MINIMUM VERTICAL CLEARANCE FROM EXISTING PIPE.  
8"X6" HOT TAP W/ TAPPING SLEEVE (KOPPI CN-100 TAPPING NOZZLE).

REMOVE EXIST. 6"x4" WELD REDUCER, (2) 45° STD. WELD ELBOWS & TIE-INTO NEW 8" CML&CMC PIPE TO EXIST. 8" CL&W 14.5' S/C.L. (SEE DETAIL "A" & SKETCH "C" DWG. C-430)  
REMOVE AS-NEEDED SECTION OF EXIST. 4" S.S. PIPE & PLATE END PER L.A.C.D.P.W. STD. PLAN W-22

INSTALL 8" CML&CMC & DEFLECT (1) 20' LENGTH OF PIPE WITH 1.5" OFFSET (6") TO MEET NEW PIPELINE ALIGNMENT (SEE DETAIL "A" & SKETCH "C" DWG. C-430)  
ABANDON EXIST. 4" S.S. 17.5' W/C.L. (REF. B-72)

EXPLORATORY EXCAVATION IS REQUIRED IN THE VICINITY OF EXIST. CATCH BASIN FOR EXIST. FACILITIES & ABANDONED STRUCTURES, PRIOR TO CONSTRUCTION

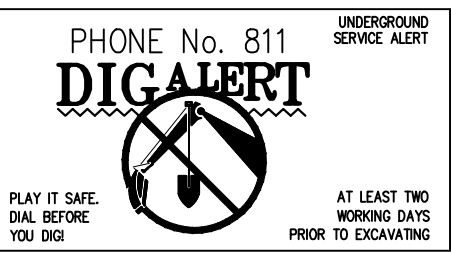
INSTALL 8" CML&CMC 14' W/C.L.  
\* INSTALL 8" CML&CMC & TUNNEL UNDER (2) EXISTING 18" STORM DRAINS (POTHOLE PRIOR TO CONSTRUCTION FOR DEPTH & CONDITION OF EXIST. FACILITIES

SEE DETAIL "A" DWG C-430

SEE DETAIL "B" DWG C-430

\* POTHOLE PRIOR TO CONSTRUCTION FOR DEPTH, LOCATION & CONDITION OF UNDERGROUND FACILITIES

**PRELIMINARY NOT FOR CONSTRUCTION**  
SUBJECT TO CHANGE



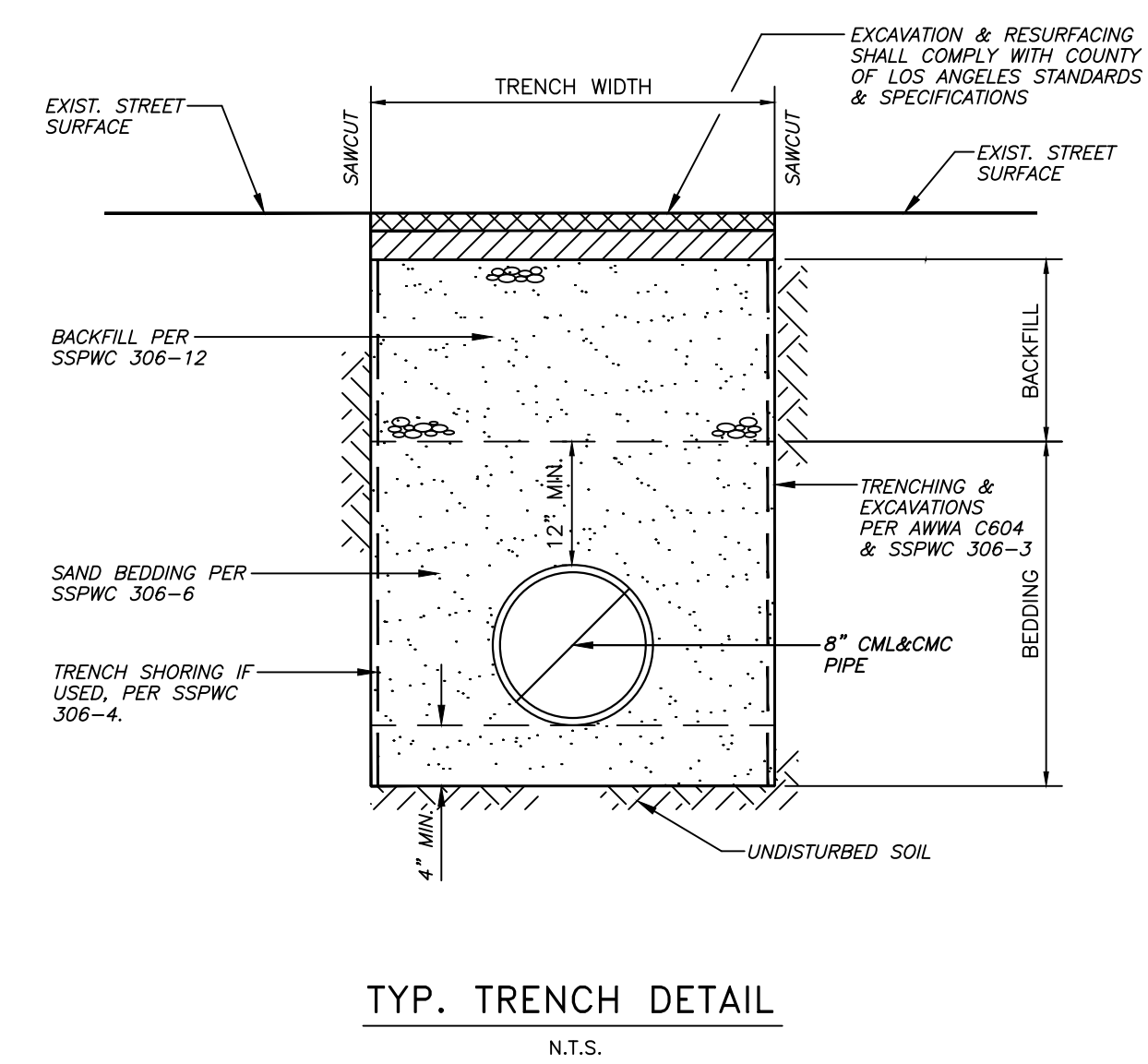
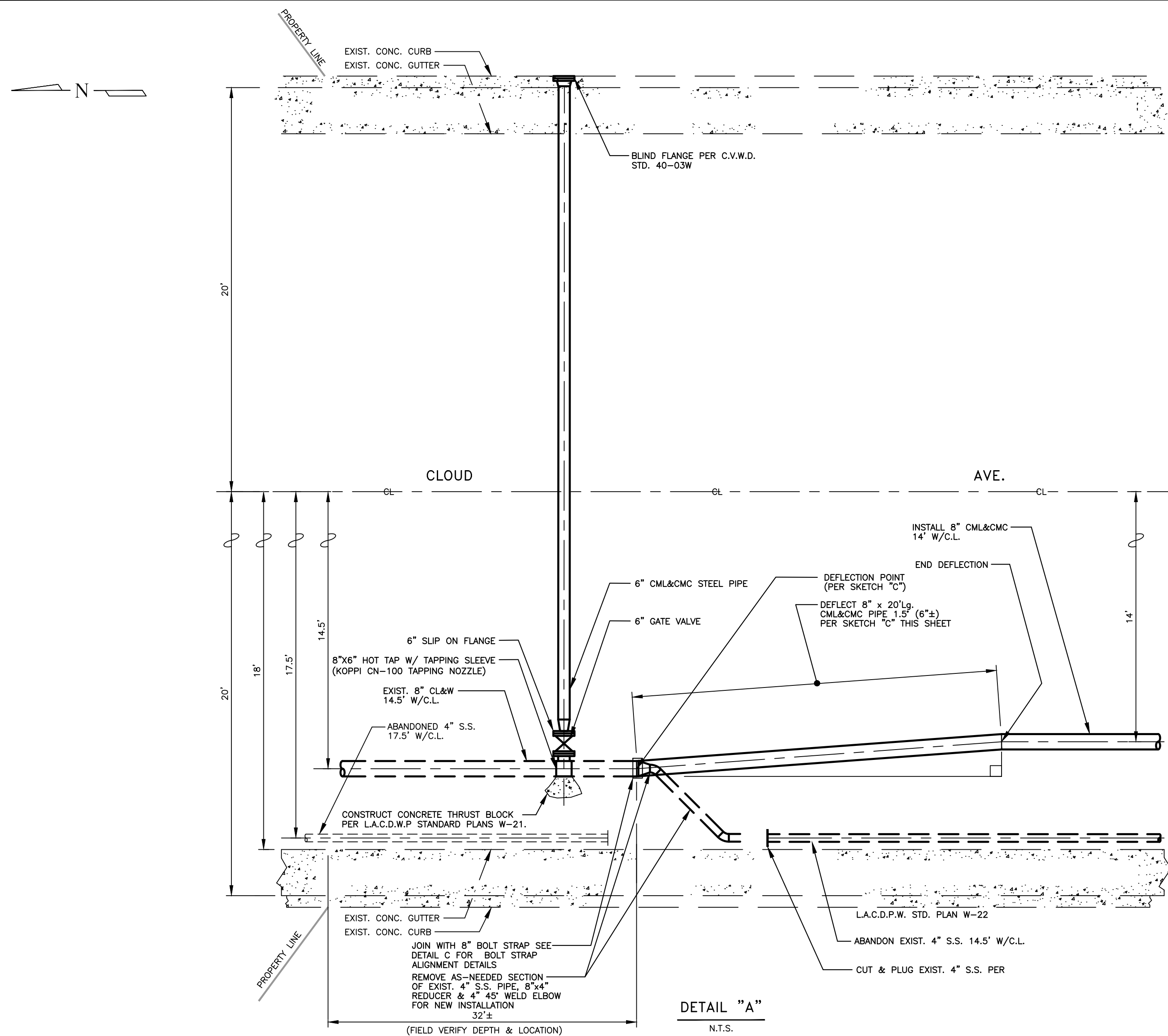
**DISCLAIMER**  
Approval by C.V.W.D. does not constitute a representation as to the accuracy of design or the existence and location of underground utilities, structures, and conditions within the limits of this project.

SCALE:	1" = 40'	DATE:	6/24/19
DRAWN BY:	J.A. HUERTA	CHECKED BY:	D.S.G.
APPROVED:	B. YARED	AS BUILT:	

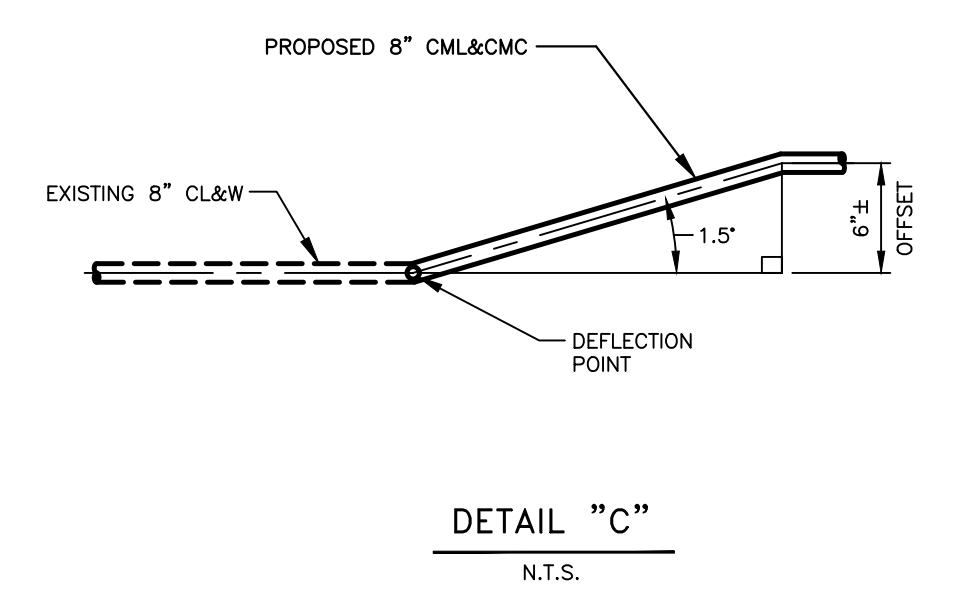
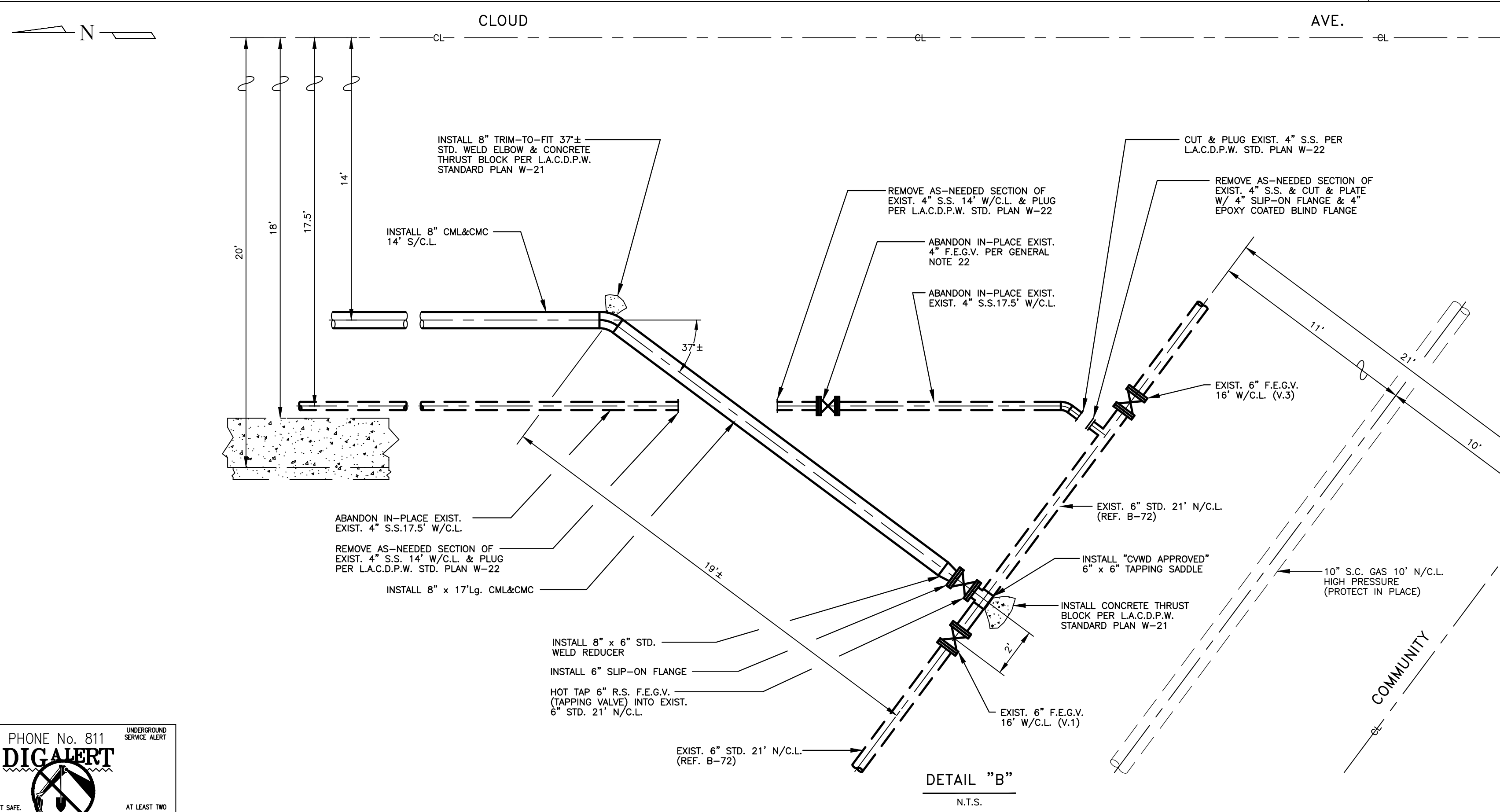
**CRESCENTA VALLEY WATER DISTRICT**  
8" WATER MAIN INSTALLATION ON CLOUD AVE.  
FROM FOOTHILL BLVD. TO COMMUNITY AVE.

L.A. COUNTY PERMIT #	
SHT. 1 OF 2 SHTS.	
COMPLETION DATE:	LINEAR 6"-20' 8"-185'
JOB NO. D-19-63	FILE NO. C-429

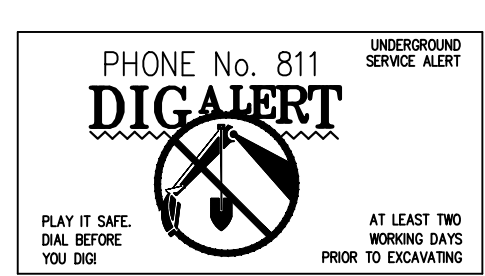




- GENERAL NOTES:**
1. THE CONTRACTOR SHALL NOTIFY C.V.W.D. PROJECT ENGINEER BROOK YARED FIVE (5) WORKING DAYS PRIOR TO STARTING WORK. AT (818) 248-3925
  2. THE DISTRICT WILL EXECUTE ALL SHUT-DOWNS AND TURN-ONS. THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH AT LEAST (5) WORKING DAYS NOTICE. WATER TIGHT SHUT-DOWNS ARE NOT ASSURED BY THE DISTRICT; THEREFORE, THE CONTRACTOR SHALL BE PREPARED FOR VALVE LEAKAGE THAT MAY OCCUR DURING SYSTEM SHUT-DOWN
  3. ALL WORK SHALL CONFORM TO C.V.W.D. STANDARD SPECIFICATIONS AND STANDARD DRAWINGS.
  4. ALL WATER SYSTEM INSTALLATIONS SHALL BE INSPECTED BY C.V.W.D.
  5. MAINLINE PIPE SHALL HAVE A MINIMUM DEPTH OF 36 INCHES FROM FLOW LINE, UNLESS OTHERWISE NOTED. SERVICE LINES SHALL HAVE A MINIMUM DEPTH OF 24 INCHES FROM FLOW LINE, UNLESS OTHERWISE NOTED.
  6. ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWWA C206-17.
  7. BACKFILL PROCEDURE SHALL BE COVERING THE PIPELINE WITH APPROVED BEDDING MATERIAL, HAND PLACED DEPTH OF 12 INCHES OR MORE ABOVE THE TOP OF THE PIPE. THE BALANCE OF BACKFILL SHALL CONTAIN NO STONES MORE THAN 2 INCHES IN THEIR LARGEST DIMENSION.
  8. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL PIPE UPON COMPLETION. THE REQUIRED TEST SHALL BE IN ACCORDANCE WITH AWWA C604.
  9. FLUSHING AND DISINFECTION: UPON COMPLETION OF THE HYDROSTATIC TESTS, THE PIPES SHALL BE FLUSHED AND DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE WITH THE STANDARD FOR DISINFECTING WATER MAINS, (AWWA C651-14) AND SHALL BE SCHEDULED WITH C.V.W.D.
  10. ALL FITTINGS AND VALVES SHALL MEET C.V.W.D. SPECIFICATIONS.
  11. ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE SCHEDULED WITH C.V.W.D. NO CONNECTIONS TO C.V.W.D. SYSTEM UNTIL PIPE HAS SUCCESSFULLY PASSED THE HYDROSTATIC AND DISINFECTION TEST.
  12. ALL SERVICE LATERALS SHALL CONFORM TO C.V.W.D. STANDARDS.
  13. ALL VALVE CANS SHALL BE RAISED TO FINISHED GRADE DURING FINAL PAVING.
  14. EXISTING METERS SHALL BE RECONNECTED PER C.V.W.D. STD DWGS. 10-00W AND 10-01W AS WELL AS AWWA C901.
  15. PROPERTIES WITH STREET NUMBERS SHOWN SHALL HAVE WATER SERVICE LATERALS REPLACED AND CONNECTED TO PROPOSED 8 INCH CML&CMC AS REQUIRED TO MEET C.V.W.D. STANDARDS AND SPECIFICATIONS. EXACT LOCATION OF LATERAL / MAIN CONNECTION TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY C.V.W.D. INSPECTOR.
  16. ALL REQUIRED WATER SERVICES SHALL BE CONNECTED TO NEW WATER MAIN AFTER HYDROSTATIC TESTING AND DISINFECTION, AND PRIOR TO FINAL TIE-IN OF NEW WATER MAIN.
  17. BY APPROVING THIS PLAN, THE WATER PURVEYOR IS NEITHER GUARANTEEING NOR AGREEING THAT IT WILL SUPPLY WATER AT ANY SPECIFIC QUANTITIES OR PRESSURE AND NO SUCH OBLIGATION IS CREATED HEREBY.
  18. CONTRACTOR TO NOTE THAT EXACT LOCATION AND DEPTH OF EXISTING FACILITIES MAY VARY AND SHOULD BE VERIFIED BY EXPLORATORY EXCAVATION AT TIME OF CONSTRUCTION. CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT PHONE NO. 811 AT LEAST TWO WORKING DAYS PRIOR TO DIGGING.
  19. TRAFFIC CONTROL DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL CONFORM WITH REQUIREMENTS OF LOCAL TRAFFIC AUTHORITY.
  20. ALL UNLINED FITTINGS AND SPECIALS SHALL BE FIELD MORTAR LINED (MIN. 5/16" THICK).
  21. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF BACTERIOLOGIC SAMPLES. A RISER WITH SAMPLING TAP, OR OTHER C.V.W.D. APPROVED INSTALLATION SHALL BE REQUIRED.
  22. REMOVE EXISTING VALVE SLEEVE AND VALVE CAN CAP, ABANDON EXISTING VALVE IN-PLACE AND BACKFILL PER SSPWC 306-12 AND RESURFACE PER SSPWC 306-13.
  23. ALL OFFSET DISTANCES ARE APPROXIMATE, CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION.
  24. REMOVE EXISTING VALVE SLEEVE, VALVE CAN CAP & EXISTING VALVE, PLUG EXIST. MAIN PER L.A. C.D.P.W. STD. PLANS DWG. W-22 AND BACKFILL PER SSPWC 306-12 AND RESURFACE PER SSPWC 306-13.
  25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF THIS PROJECT IN ACCORDANCE WITH C.V.W.D. & CITY OF GLENDALE PLANS & SPECIFICATIONS. ANY DEVIATION FROM THESE PLANS & SPECIFICATIONS SHALL BE AUTHORIZED PRIOR TO CONSTRUCTION BY THE DIRECTOR OF ENGINEERING. FAILURE TO OBTAIN PRIOR APPROVAL MAY RESULT IN ADDITIONAL COSTS TO THE CONTRACTOR
  26. REPLACE AS NEEDED SECTION OF BRICK OR CONCRETE HARDSCAPE "IN KIND" FOR WATER METER SERVICE INSTALLATIONS PER CVWD STD. DWG. 10-00W & 10-01W
  27. MATERIALS AND INSPECTION SHALL BE PROVIDED BY CRESCENTA VALLEY WATER DISTRICT.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
SUBJECT TO CHANGE



**DISCLAIMER**  
Approval by C.V.W.D. does not constitute a representation as to the accuracy of design or the existence and location of underground utilities, structures, and conditions within the limits of this project.

SCALE:	AS NOTED	DATE:	
DRAWN BY:	DENNIS PHAM	09/30/19	
CHECKED BY:	D.S.G.	09/30/19	
APPROVED BY:	B. YARED	09/30/19	
AS BUILT:			

**CRESCENTA VALLEY WATER DISTRICT**   
8" WATER MAIN INSTALLATION ON  
CLOUD AVE.  
FROM FOOTHILL BLVD. TO COMMUNITY AVE.

L.A. COUNTY PERMIT #	
SHT. 2	OF 2 SHTS.
COMPLETION DATE:	LINEAR FT.
JOB NO. D-19-63	FILE NO. C-430