LAS VEGAS VALLEY WATER DISTRICT NOTES

- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES FOR PROPER DRAINAGE, AND FOR INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED IN THE FIELD BY THE LVVWD ENGINEER.
- 2. REPLACE EXISTING SEWER LINES OR STORM DRAINS WHICH CROSS OVER NEW WATER LINE WITH C900 WATER QUALITY PIPE TEN (10) FEET BEYOND EACH SIDE OF WATER LINE OR SLURRY ENCASE OR WELD JOINTS (MLCP) OF NEW WATER LINE TEN (10) FEET BEYOND EACH SIDE OF ALL SEWER MAINS AND LATERALS OR STORM DRAINS.
- 3. SOME WATER SERVICE LATERALS ARE NOT SHOWN. ALL WATER SERVICE LATERALS SHALL BE PROTECTED IN PLACE OR REPLACED WITH COPPER TUBING AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE UDS.
- 4. DURING ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN A 10 FOOT MINIMUM CLEARANCE IN ALL DIRECTIONS OF ALL OVERHEAD POWER LINES AND EQUIPMENT.
- 5. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, CABLE POLES OR JOINTLY—OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH THE IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANY.
- 6. ALL AGENCY/UTILITY INSPECTORS SHALL BE CALLED WHENEVER WORK IS TO BE PERFORMED NEAR OR ON ANY OF THEIR FACILITIES.

10/23/2019

11/15/2019

APPROVE

7. SEWER LATERALS ARE NOT SHOWN. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE TO CUSTOMERS. SEWER LATERALS CUT DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE PER DESIGN AND CONSTRUCTION STANDARDS OF AGENCY HAVING JURISDICTION.

PAK COUL

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SANITARY SEWER MANHOLES SHALL BE PROTECTED FROM DAMAGE WHEN EXCAVATING IN THEIR VICINITY.

REVISIONS

ISSUED FOR CONSTRUCTION

REVISED PER UTILITY COMMENTS

	LEGEND	
DECODIDATION	SYME	BOL
DESCRIPTION	PROPOSED	EXISTING
CURB, GUTTER AND SIDEWALK		
PROPERTY LINE		——————————————————————————————————————
CENTER LINE	<u> </u>	<u> </u>
BLOCK WALL		
RIGHT-OF-WAY LINE		
PATENT RESERVATION OR EASEMENT LINE		
SECTION LINE		
ANGLE (HORIZONTAL OR VERTICAL)	A	
ANGLE OF CURVE	\triangle	
FIELD WELD	t	
REFERENCE BUBBLE	DETAIL OR SECTION REFERENCE NUMBER (DETAIL) OR LETTER (SECTION) DRAWING NUMBER OF SHEET WHERE DETAIL OR SECTION RESIDES C1, C9, C11 — ALL SHEETS THAT REFERENCE TO THE DETAIL OR SECTION	

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES LVVWD PROJECT # C1497

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- 2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
- 3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- 4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- 5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- 6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- 8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- 9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD
- 10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO
- 11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- 12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- 13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.

ENGINEER'S STATEMENT

EXISTING ABOVE AND BELOW GROUND UTILITIES HAVE BEEN DELINEATED ON THESE PLANS BASED UPON FIELD SURVEY INFORMATION AS WELL AS FROM BLUE STAKE MARKINGS AND UTILITY BASE MAPS (AS MADE AVAILABLE) AND THEREFORE THE ENGINEER MAKES NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE UTILITY LOCATIONS OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY OR UNDERGROUND STRUCTURES SHOWN THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS NECESSARY TO PROTECT ANY UTILITY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON THESE PLANS.

LVVWD APPROVAL APPROVED FOR CONSTRUCTION K - ah al LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE

know what's below Call before you dig

SAFETY ALERT † Call † Before You Overhead 1-702-227-2929

UNION PACIFIC RAILROAD Call Before You Dig

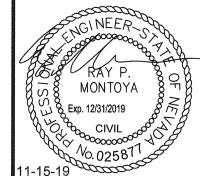




LAS VEGAS BOULEVARD

ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE WATERLINE IMPROVEMENT PLANS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: DRAWN BY: CHECKED BY:	ROM GAG/JTK/VCR/VRC RPM	SCA
DATE:	11-15-19	
Kim 6671 Las Vegas Bouleve Las Vegas, Nevada 89		FIE

1-800-336-919 SHEET No HORIZ: N/A WT-01 VERT: ELD BOOK NONE SHEET 108 OF 345 L-2210

ISSUED FOR CONSTRUCTION

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

- 15. NO LEAD COMPLIANCE NOTE: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.
- 16. ALL PIPELINES TO BE ABANDONED SHALL BE CUT AND SECURELY CAPPED (ALL 15.1.ENDS). THE CUT AND CAP LOCATION ON THE MAIN TO BE ABANDONED SHALL BE A MAXIMUM OF ONE (1) FOOT FROM THE VALVE OR POINT OF TERMINATION. ANY ABANDONED PIPELINE LARGER THAN TWELVE (12) INCHES MUST BE FILLED WITH CLSM I MATERIAL.
- 17. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
- 18. LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
- 19. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
- 20. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
- 21. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTES

- 1. ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY—FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE NO. 31.
- 2. ABANDONMENT OF EXISTING SERVICE LATERAL (TWO (2) INCH AND SMALLER

THE CONTRACTOR SHALL NOTIFY THE AGENCY TWO (2) FULL BUSINESS DAYS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE AGENCY TO TAKE THE FINAL METER READING. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS TO BE ABANDONED FROM EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY THE AGENCY. IF IT IS DISCOVERED THE CORPORATION STOP IS NOT WATER TIGHT, THROUGH NO FAULT OF THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE AGENCY FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE AGENCY.

3. ABANDONMENT OF EXISTING SERVICE LATERAL (THREE (3) INCH AND LARGER

THE CONTRACTOR SHALL NOTIFY THE AGENCY TWO (2) FULL BUSINESS DAYS <u>PRIOR</u> TO THE REQUESTED REMOVAL TIME TO ALLOW THE AGENCY TO TAKE THE FINAL METER READING AND TO NOTIFY THE AGENCY'S INSPECTOR OF THE IMPENDING WORK. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY—FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO—THOUSAND (2,000) PSI.

IF THE VALVE IS TO BE ABANDONED IN THE CLOSED POSITION, THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE 31 AT ALL CAP OR PLUG LOCATIONS.

THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE AGENCY. THE CONTRACTOR SHALL THEN REMOVE THE VAULT OR A MINIMUM OF THE VAULT ROOF AND THE TOP TWENTY—FOUR (24) INCHES OF THE VAULT WALLS, AND BACKFILL THE ABANDONED VAULT WITH TYPE II MATERIAL COMPACTED TO NINETY (90)% OF MAXIMUM DRY DENSITY OR CLSM I, AS APPROVED BY THE AGENCY.

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED OR DISTURBED EXISTING LANDSCAPE AND IRRIGATION FACILITIES DURING CONSTRUCTION OPERATIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED OR DISTURBED CURBS, GUTTERS, SIDEWALKS AND AC PAVEMENT DURING CONSTRUCTION OPERATIONS.
- 4. NEW WATER LINE TO PASS PRESSURE TEST AND WATER SAMPLE TESTING PRIOR TO FINAL CONNECTIONS AND ABANDONMENT OF EXISTING WATER LINES.
- 5. EXISTING PIPELINE, SERVICE LATERAL, VALVE, FIRE HYDRANT ABANDONMENTS AND CUT AND CAPS ARE TO BE COMPLETED PER REQUIREMENTS WITH SECTION 2 AND 3 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS).
- 6. INSTALLATION STANDARD DETAILS AND REQUIREMENTS ARE LOCATED WITH SECTION 5 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS).
- 7. REFER TO THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS) FOR ADDITIONAL INFORMATION REQUIRED FOR ALL WORK.
- COORDINATE SHUTDOWNS TO MINIMIZE SERVICE IMPACTS. MAINTAIN FIRE HYDRANT COVERAGE DURING CONSTRUCTION PER JURISDICTIONAL CODE. REFER TO THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS), SECTION 3, FOR CONNECTIONS TO EXISTING FACILITIES.
- PIPELINES CROSSING SEWER AND STORM DRAIN MAINS AND WHERE ALIGNMENT IS CLOSER THAN 10' OF SEPARATION TO BE ENCASED WITH CLSM, CLASS II (300 PSI).
- 10. ABANDONED WATER MAIN CAP INSTALLATIONS MAY NOT BE REQUIRED WHEN CONCRETE THRUST BLOCKS FOR PROPOSED PIPELINE CLOSE/PLUG OPEN ENDS OF THE ABANDONED WATER LINE (TYP).
- 11. NO CONCRETE THRUST BLOCKS SHALL BE WITHIN 5' OF ANY EXISTING SEWER MAIN (TYP).
- 12. WHERE SHOWN ON THE DRAWING(S), THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. A NEW HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE 40 AND 41. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY—FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO—THOUSAND (2,000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND PLUG CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31. THE EXISTING FIRE HYDRANT SHALL BE DELIVERED TO THE AGENCY.
- 13. IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVVWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER; I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE "NO EQUIPMENT ZONE".
- 14. DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 15. ALL NEW AND/OR RELOCATED WATER METERS AND BACKFLOWS SHALL BE "LEAD FREE" TYPE OR THEY SHOULD BE UPGRADED TO "LEAD FREE" TYPE BY E.P.A. SAFE DRINKING WATER ACT (SDWA) LATEST LAW.

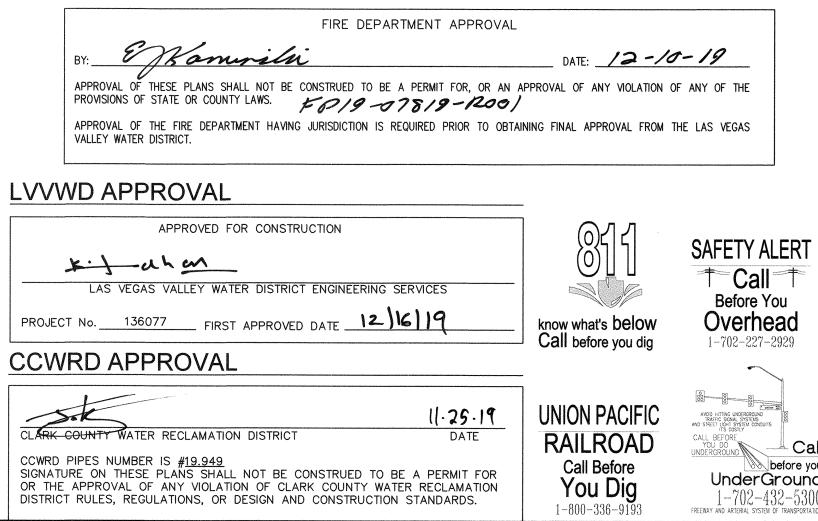
CLARK COUNTY FIRE DEPARTMENT BUREAU'S GENERAL NOTES

- A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE CURRENT EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.
- B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 1412 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.
- C. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE PREVENTION BUREAU PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.
- D. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
- E. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTION AT ALL TIMES.
- F. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 33,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL—WEATHER DRIVING CAPABILITIES. EXCEPTION: TEMPORARY ACCESS ROADS SERVING ONLY BUILDINGS UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE
- G. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION. SCHEDULE INSPECTION AT WWW.CLARKCOUNTYNV.GOV/DEPTS/DEVELOPMENT_SERVICES/FIRE_PREVENTION.
- H. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.
- BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED (SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED).
- J. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE PREVENTION BUREAU.

CLARK COUNTY WATER RECLAMATION DISTRICT (CCWRD)

1. SEWER CCTV

PRIOR TO START OF CONSTRUCTION, AND AFTER CONSTRUCTION IS COMPLETED, CONTRACTOR SHALL CCTV INSPECT, IN COMPLIANCE WITH NASSCO/PACP, THIS EXISTING SEWER MAIN TO 20 FEET ON BOTH SIDES OF THE WATER CROSSING, AND SUBMIT THE CCTV MEDIA TO THE CCWRD INSPECTOR. ANY DAMAGE TO THE EXISTING SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT ITS SOLE EXPENSE, SUBJECT TO RE—INSPECTION AND APPROVAL BY CCWRD DEVELOPER INSPECTORS GROUP.



NO. REVISIONS

ISSUED FOR CONSTRUCTION

REVISED PER UTILITY COMMENTS

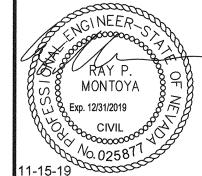
10/23/2019

11/15/2019

APPROVED

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
WATERLINE IMPROVEMENT PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



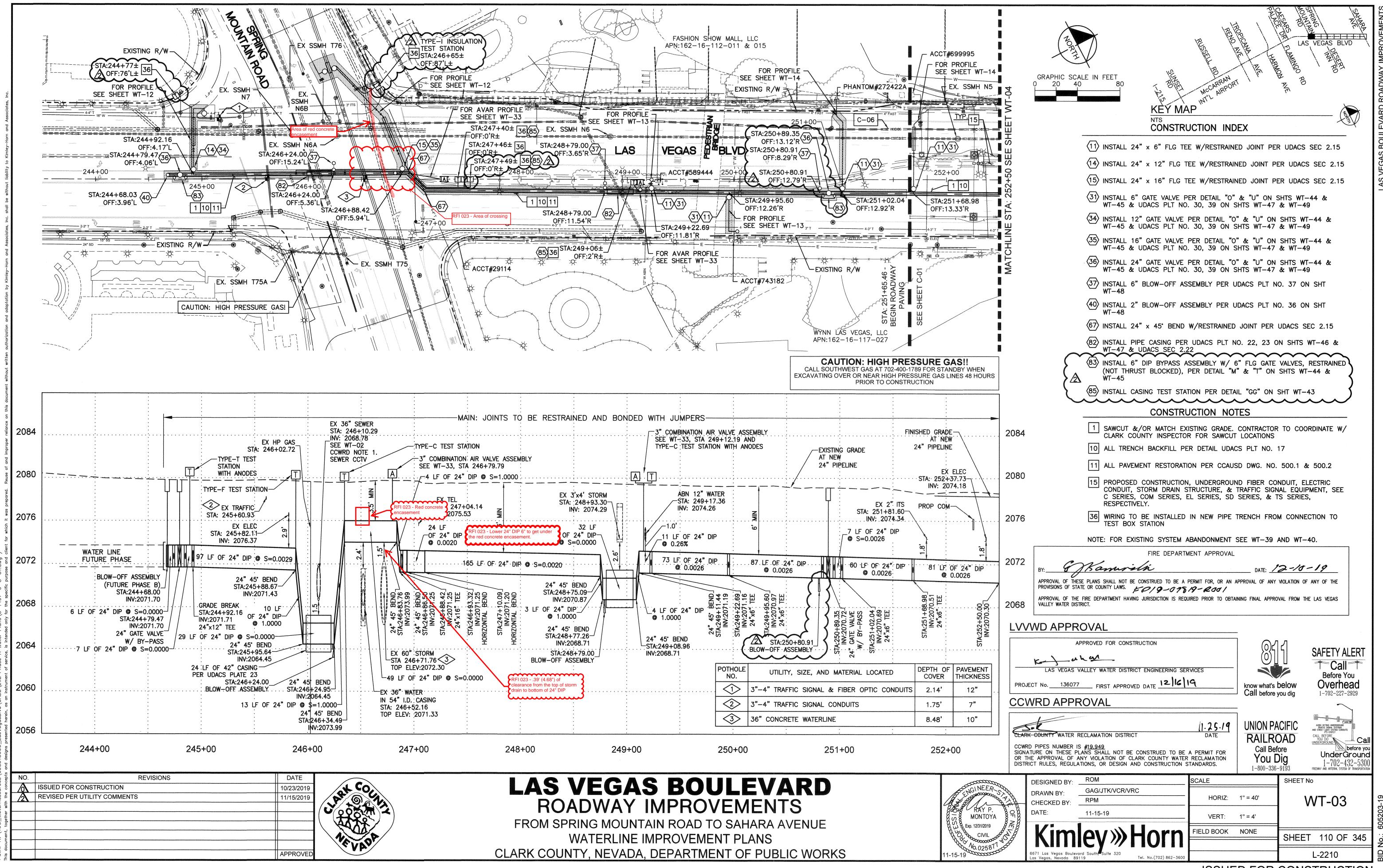
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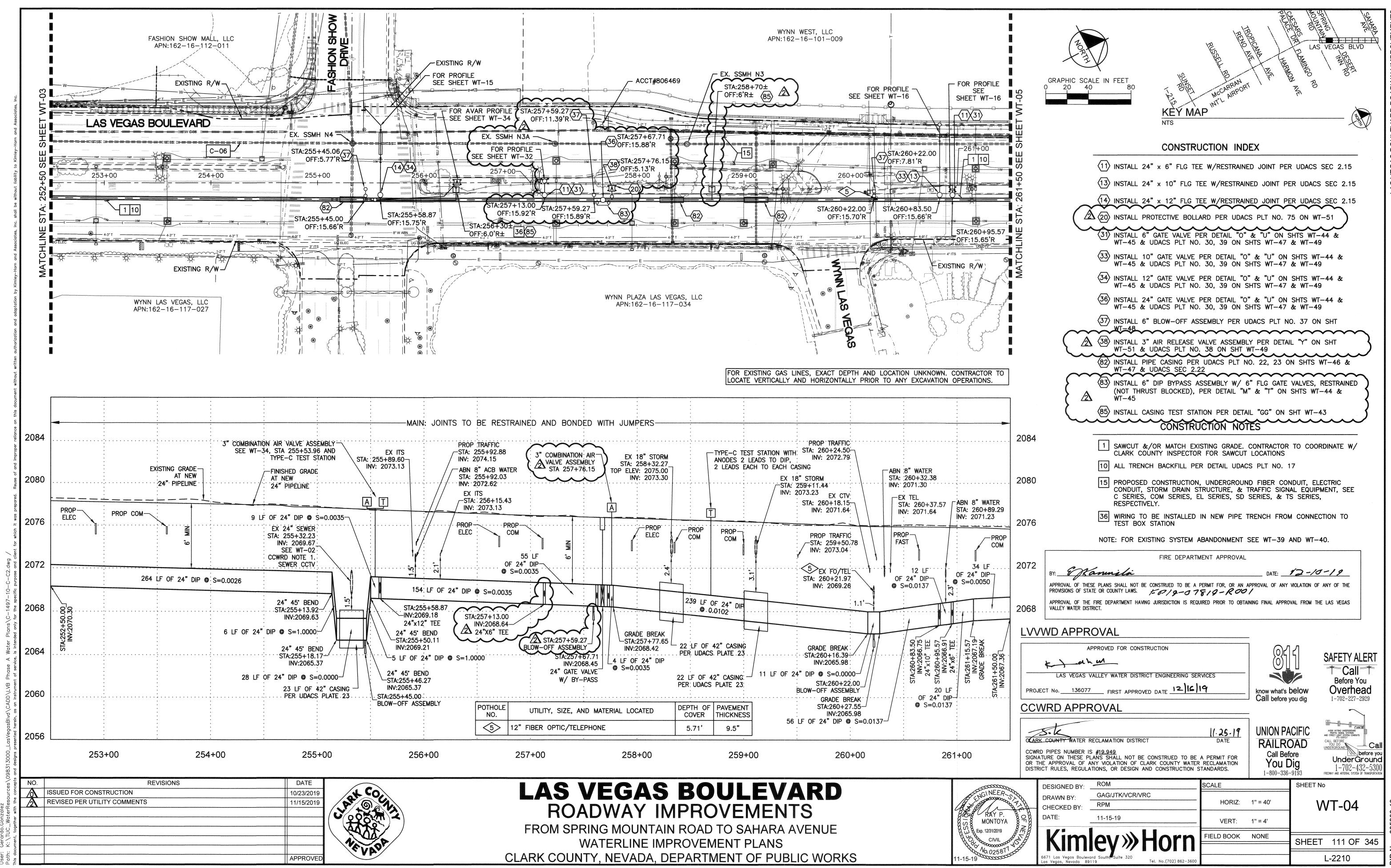
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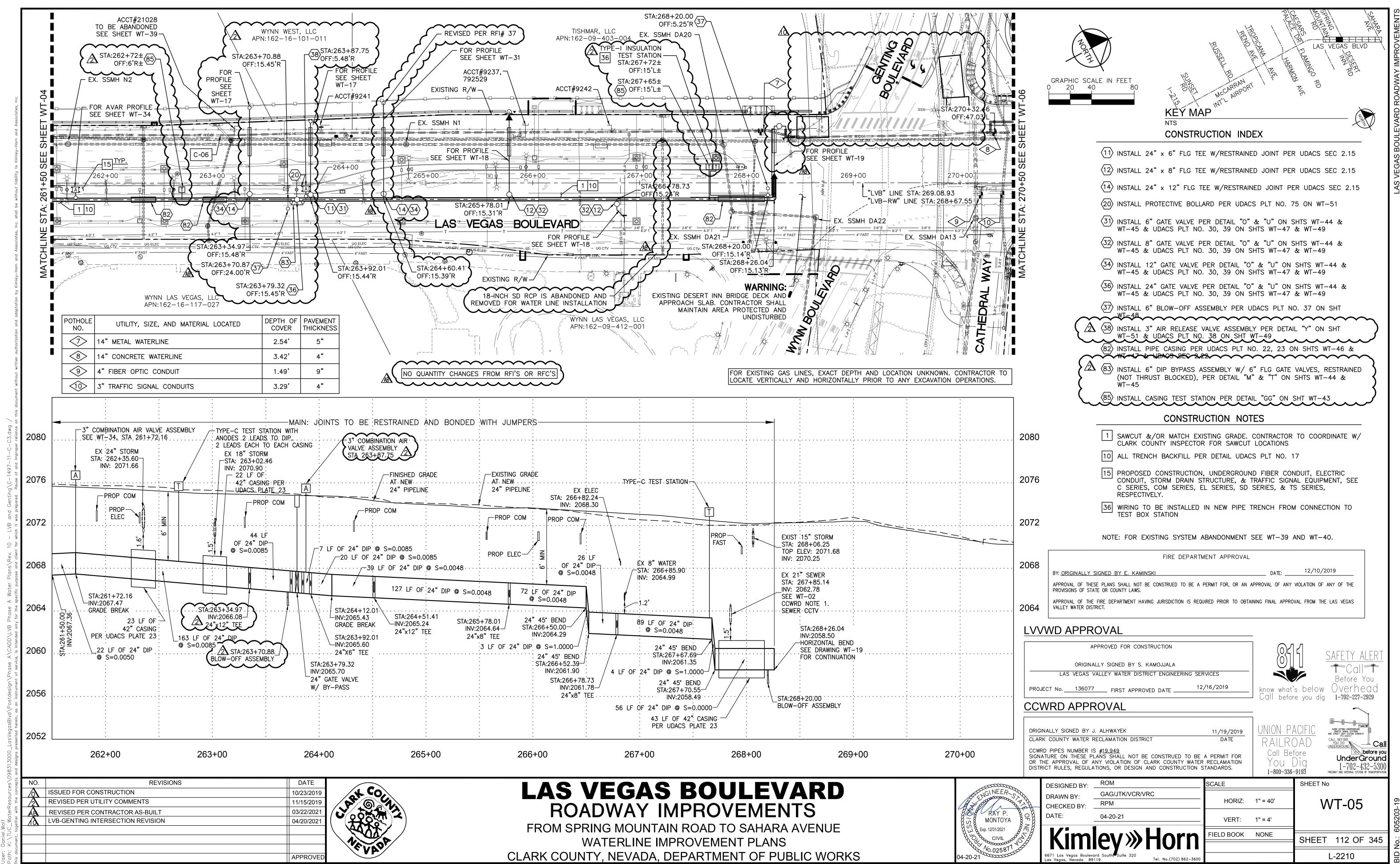
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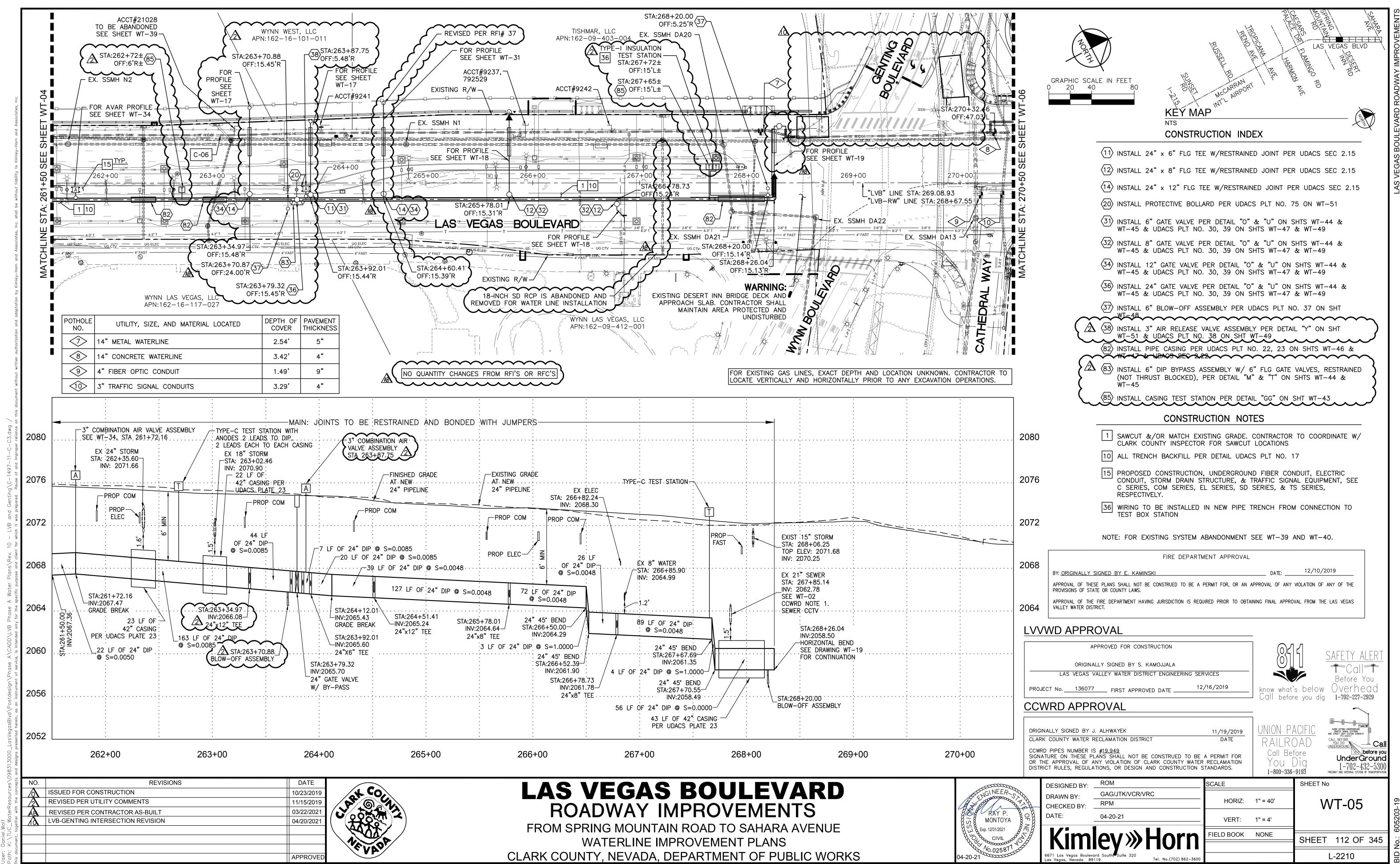
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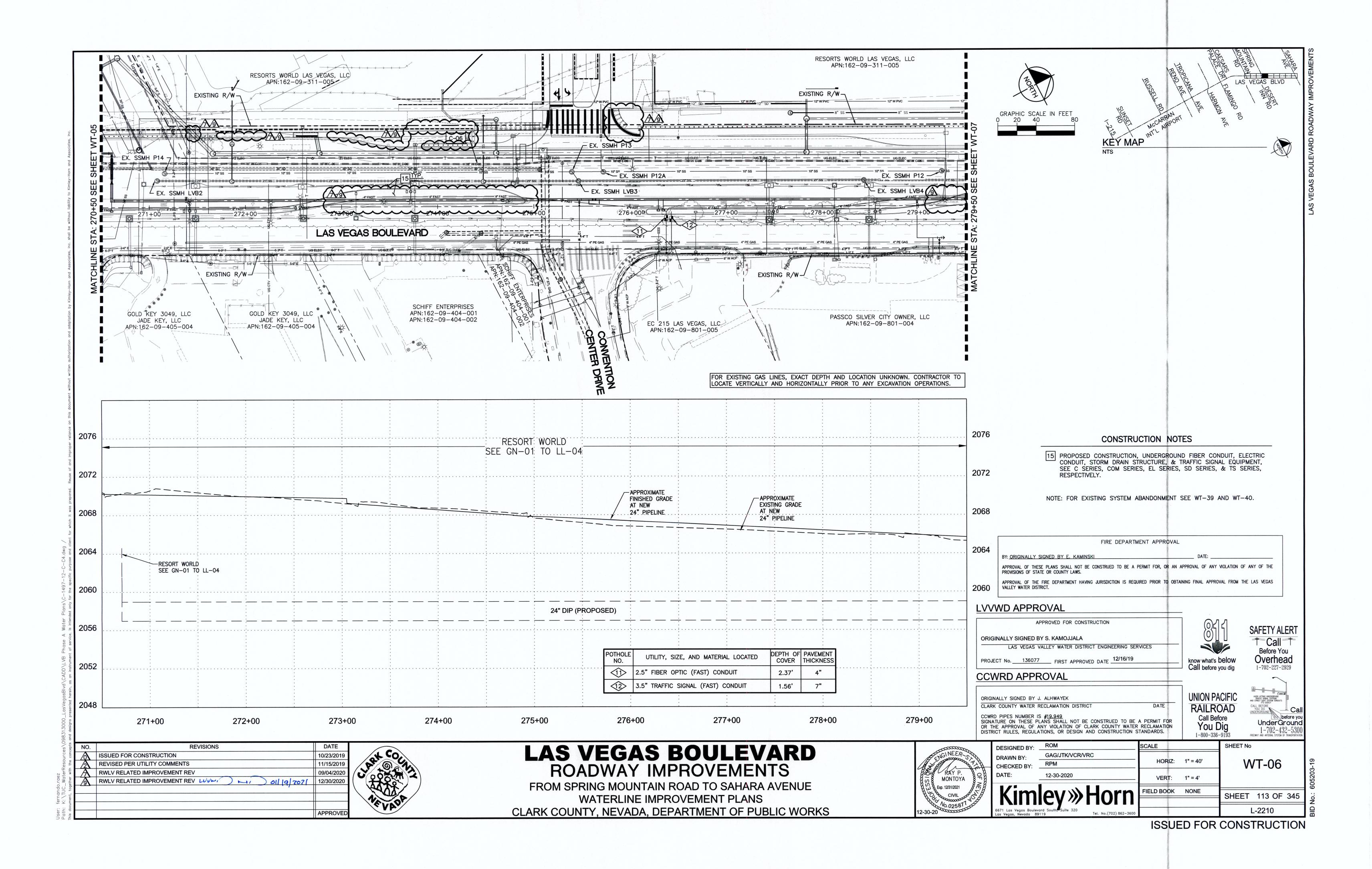


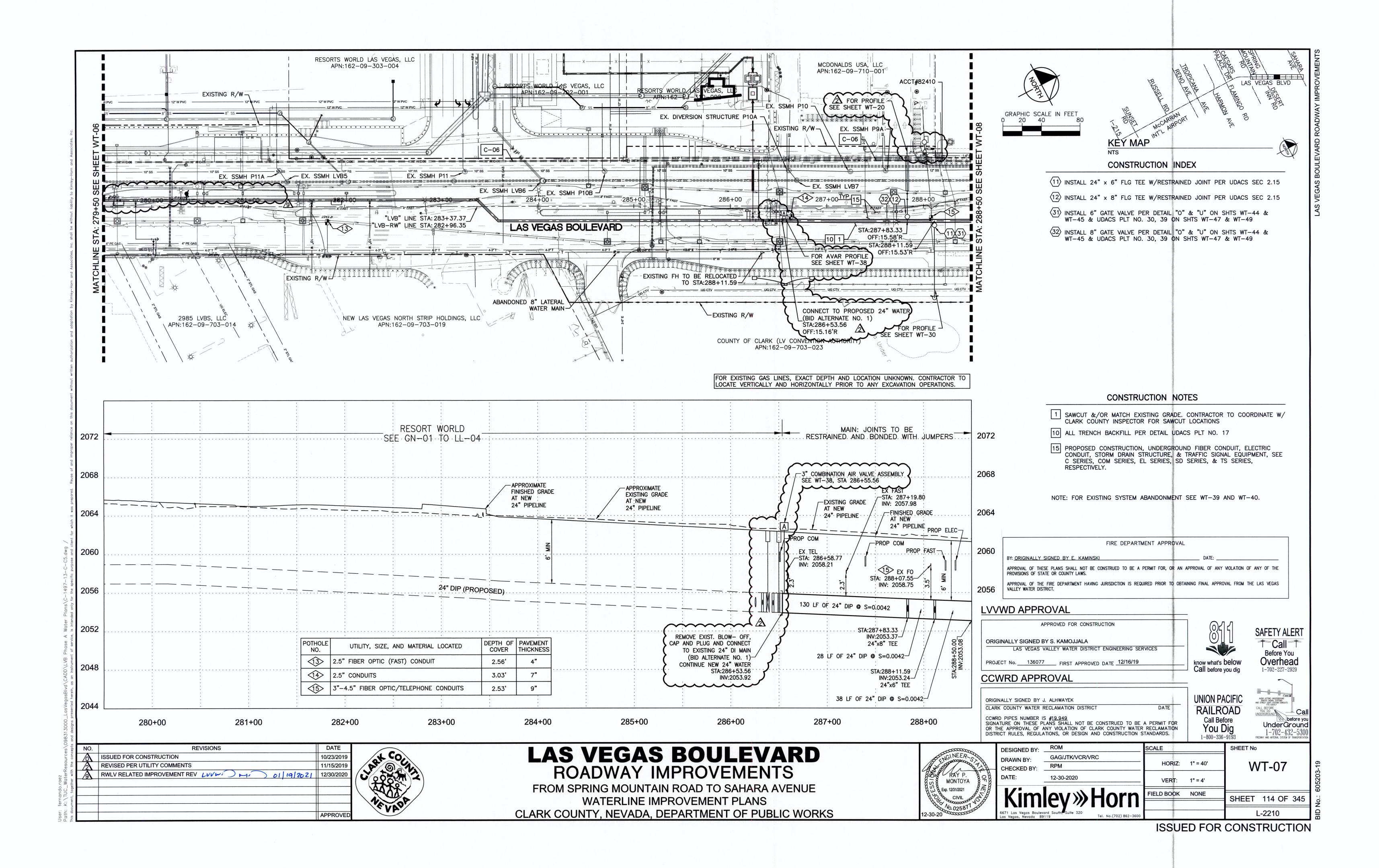


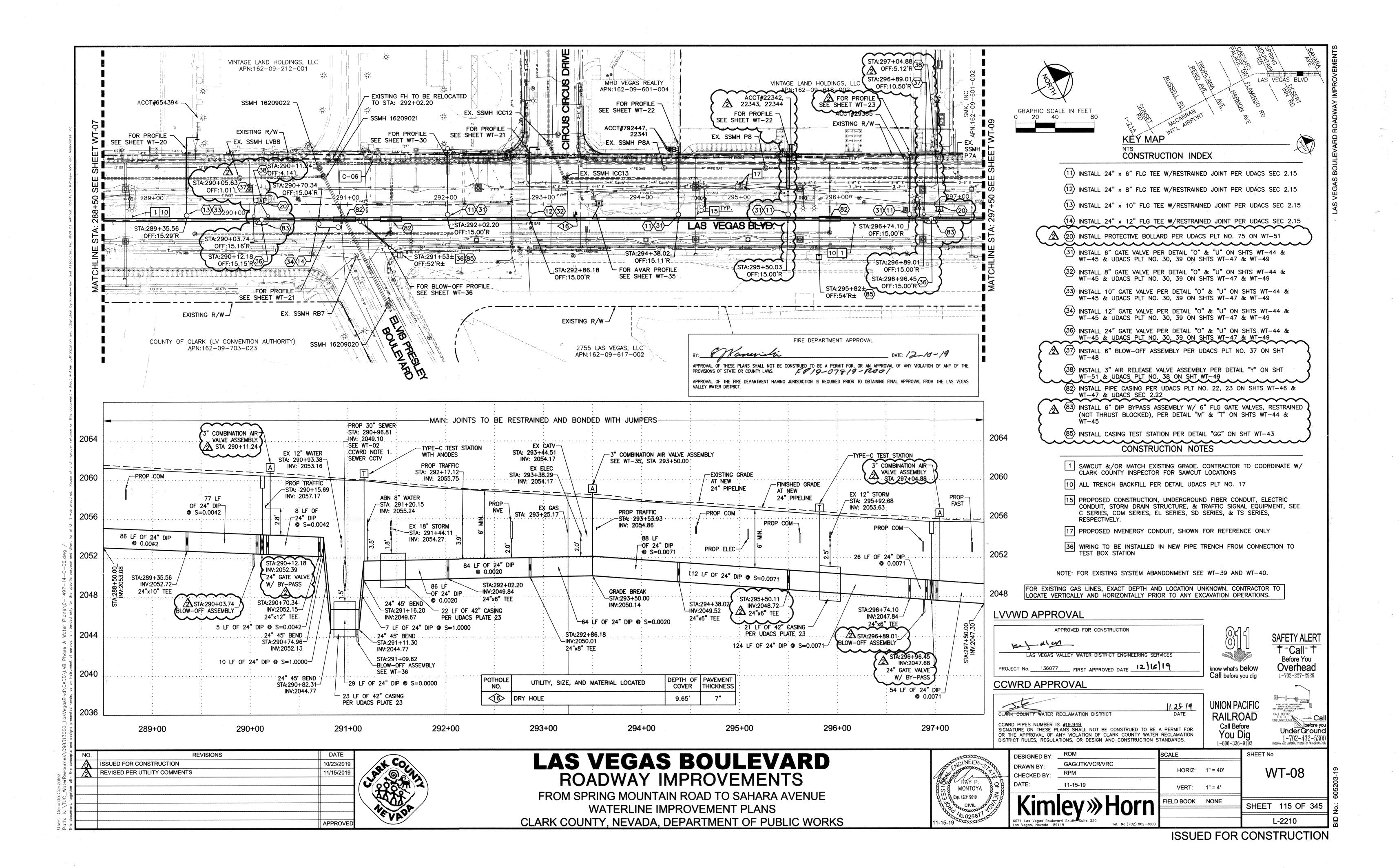
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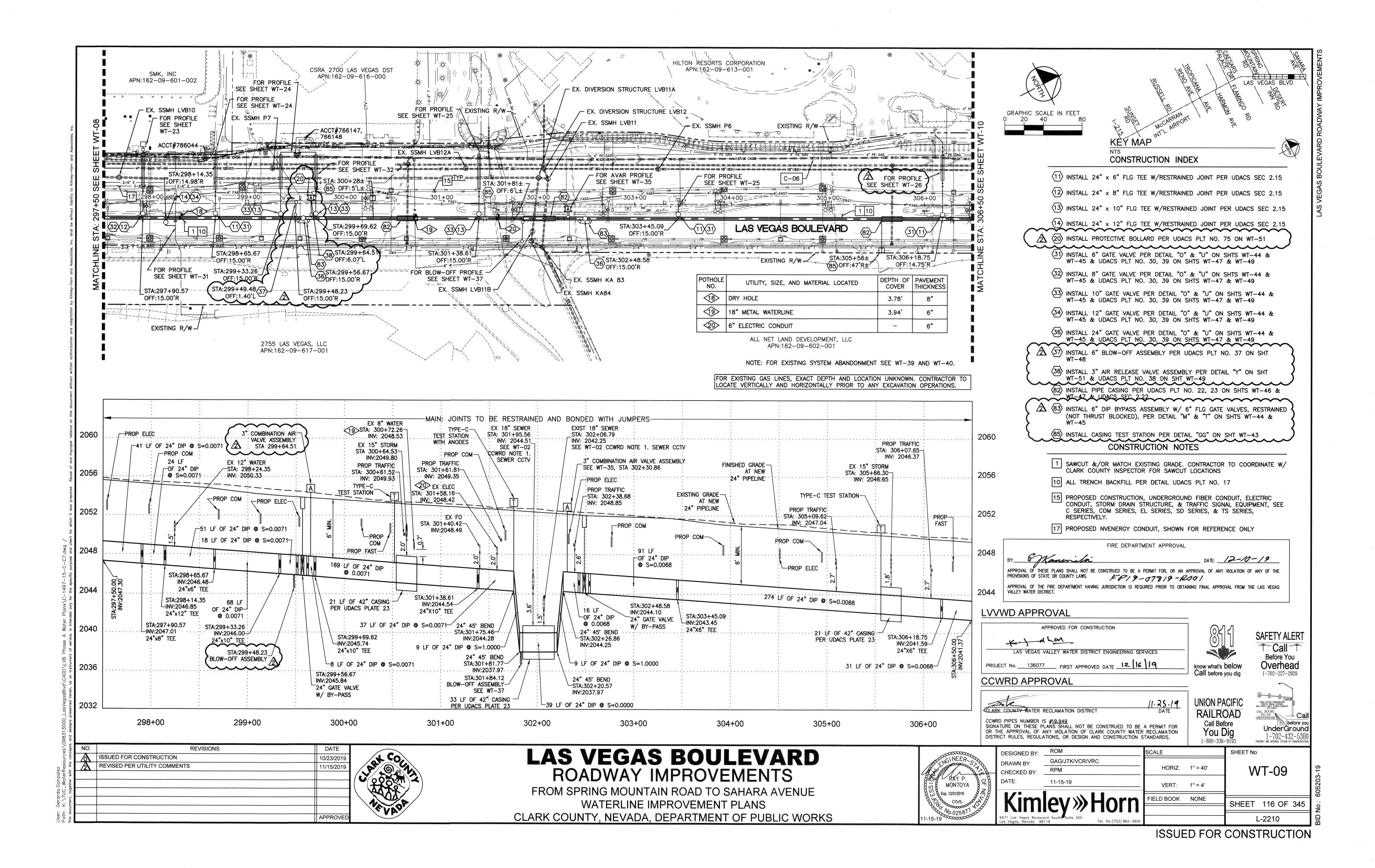


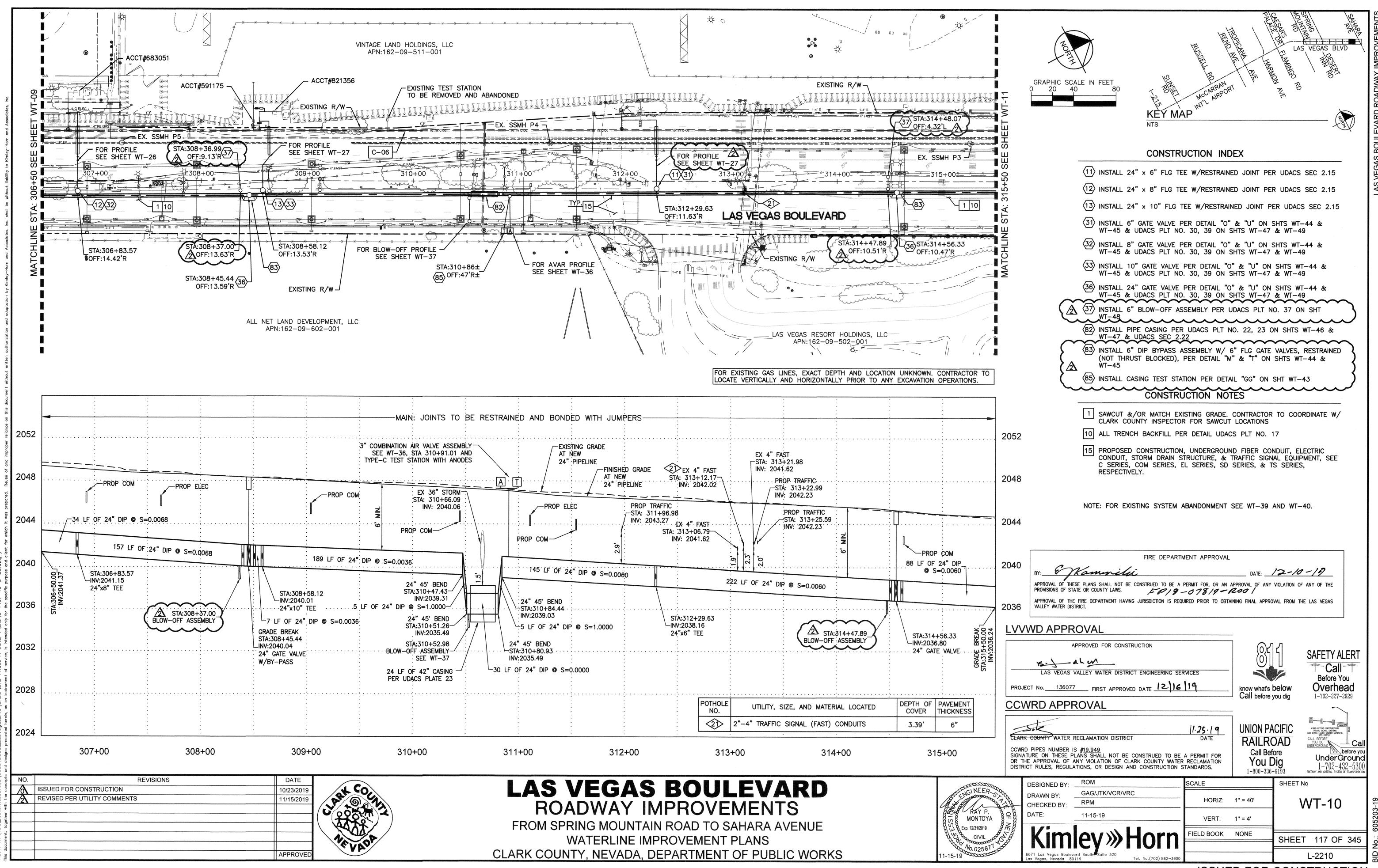
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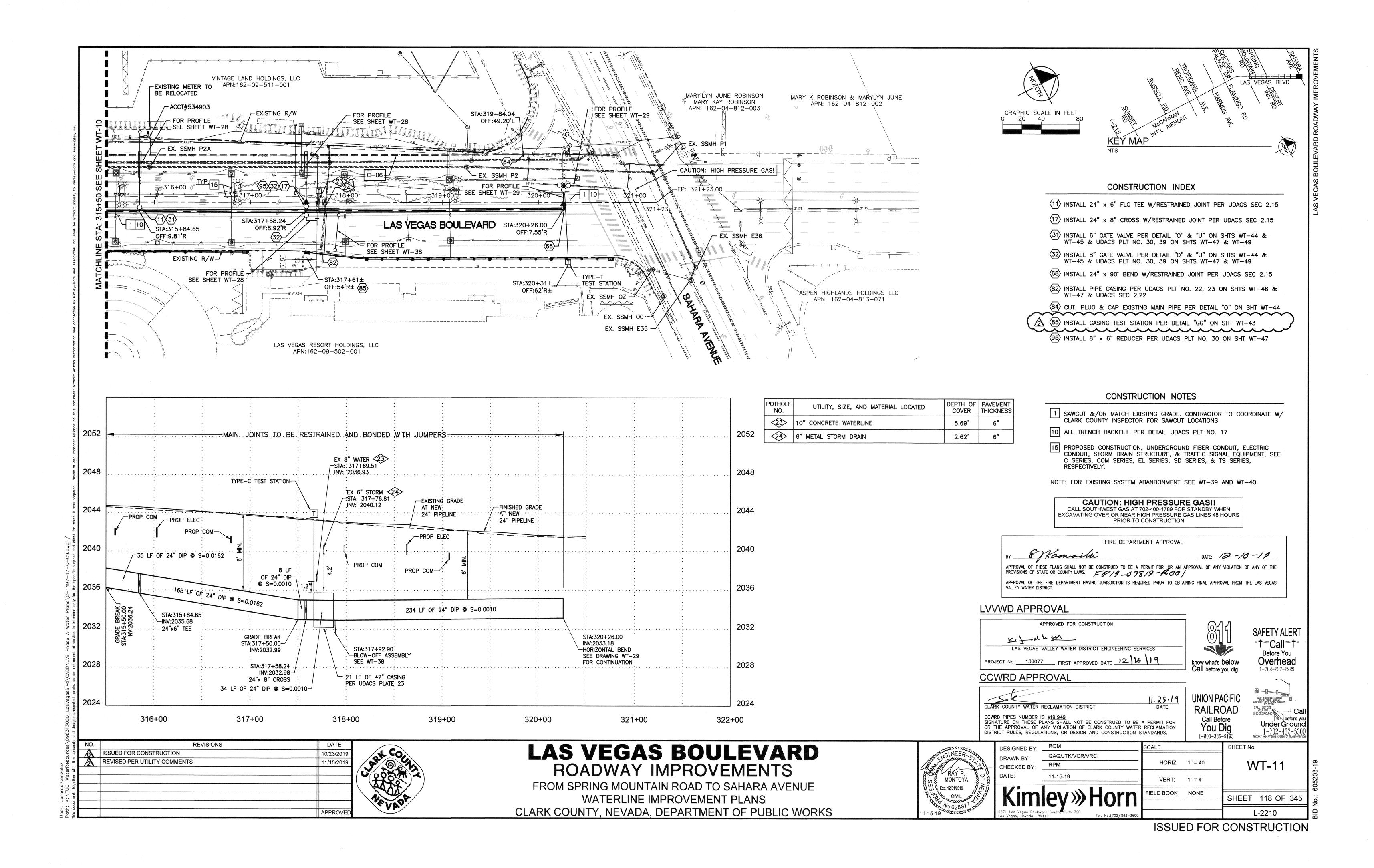


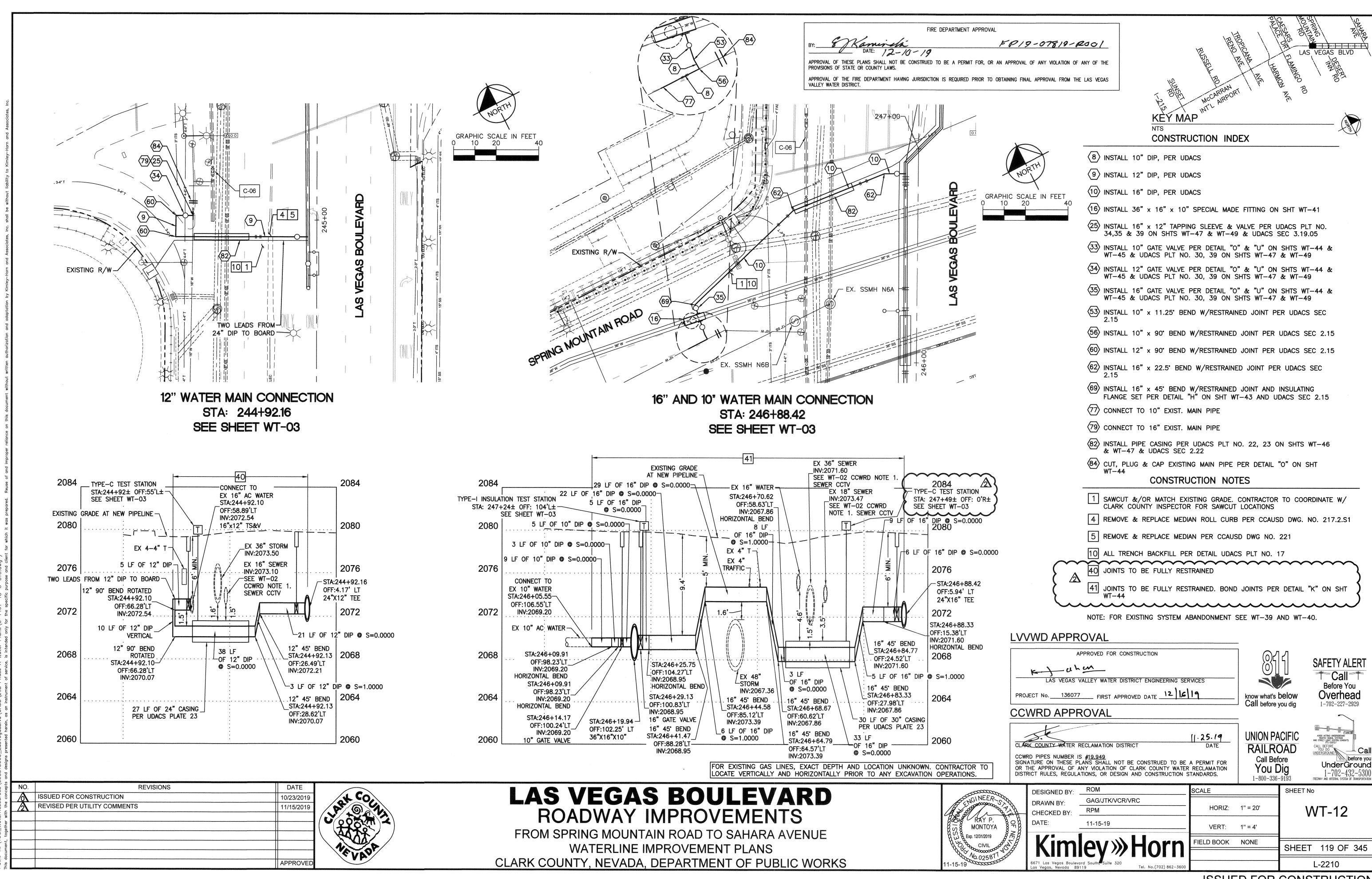


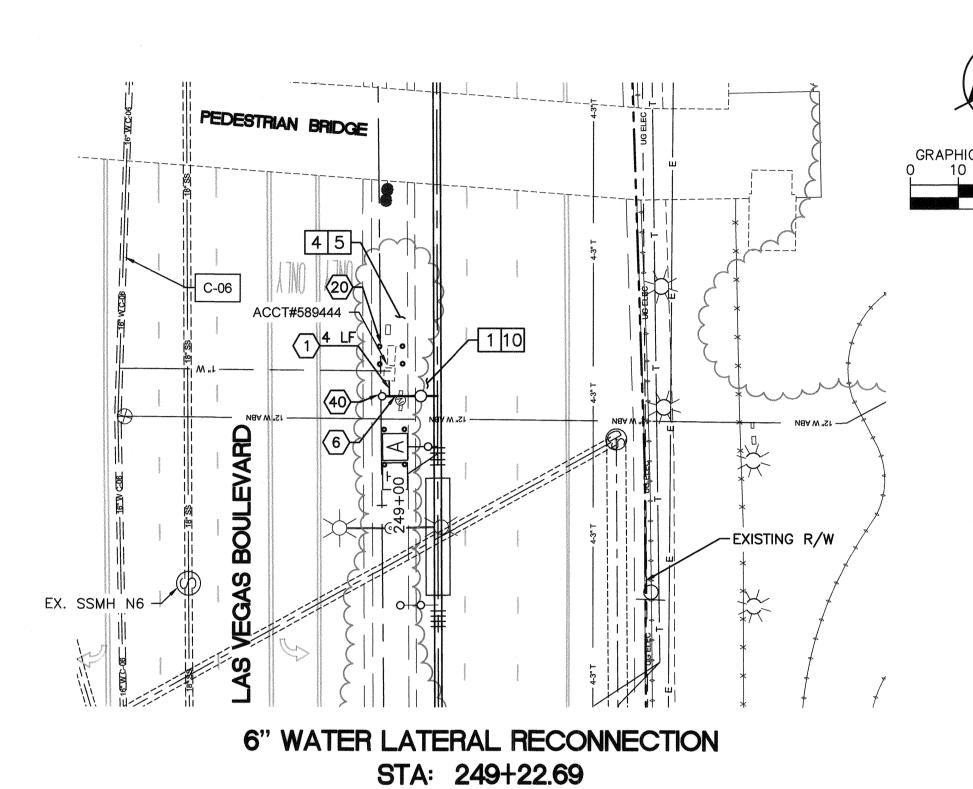












SEE SHEET WT-03

APPROVE

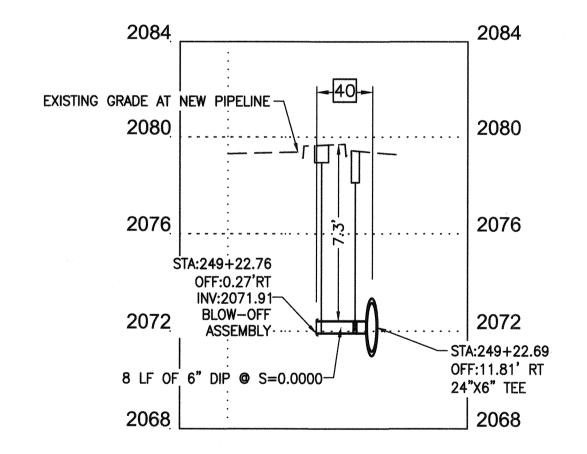
STA:250+03.38 40 5 6 PEDESTRIAN BRIDGE

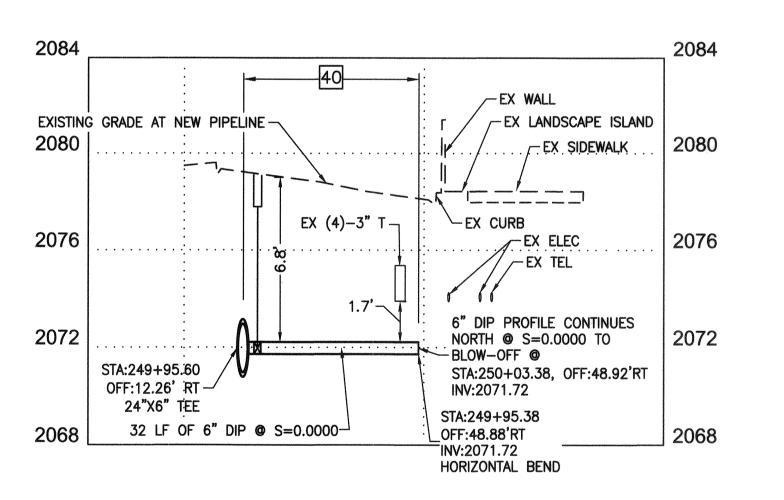
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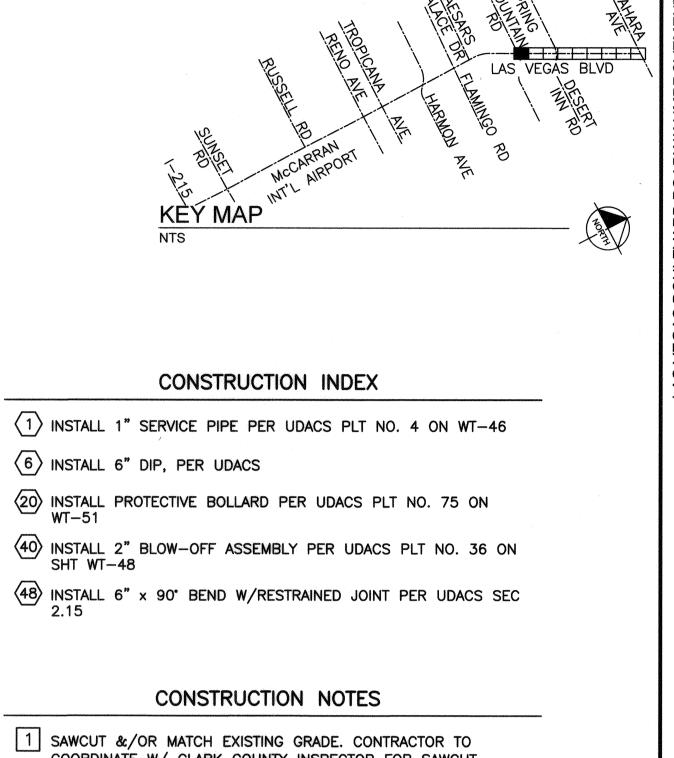
PEDESTRIAN BRIDGE

2 3

6" WATER LATERAL RECONNECTION STA: 249+95.60 SEE SHEET WT-03







1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS

2 REMOVE & REPLACE "L" TYPE CURB & GUTTER PER CCAUSD DWG. NO. 216

3 REMOVE & REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

REMOVE & REPLACE MEDIAN ROLL CURB PER CCAUSD DWG. NO. 217.2.S1

5 REMOVE & REPLACE MEDIAN PER CCAUSD DWG NO. 221

10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17

40 JOINTS TO BE FULLY RESTRAINED

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL

BY: DATE: 12-15-19

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS. 19-078/9-Rool

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE 12 16 19

know what's below Call before you dig

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19.949

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT PILLES PECULIA AND CONSTRUCTION OF CRANCE PROCESS.

UNION PACIFIC
RAILROAD
Call Before
You Dig

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AND THE IN STATE CHONUTS
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UNDERGROUND

Defore you

UnderGround

1-702-432-5300

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

SAFETY ALERT

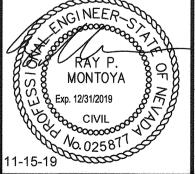
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Before You

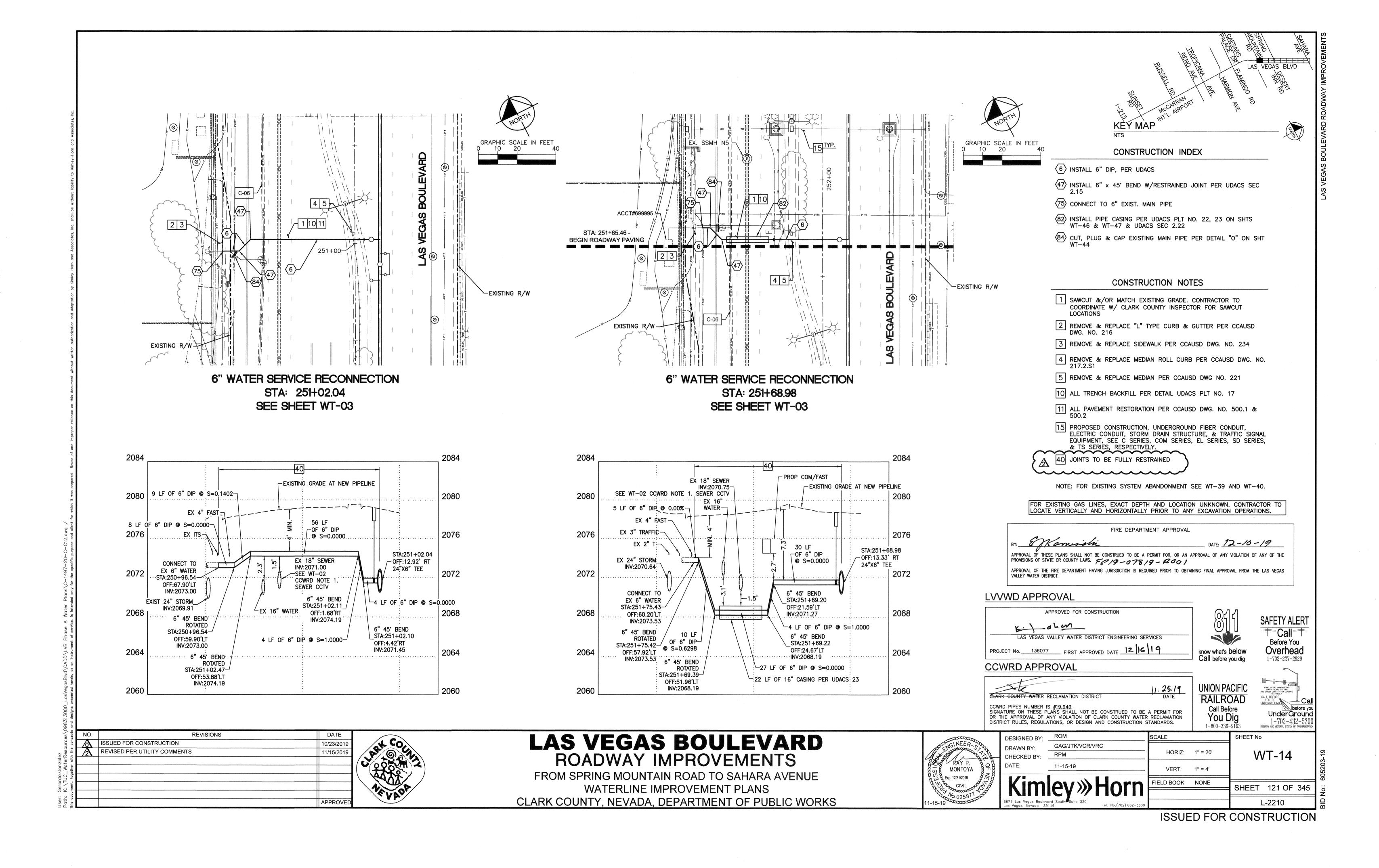
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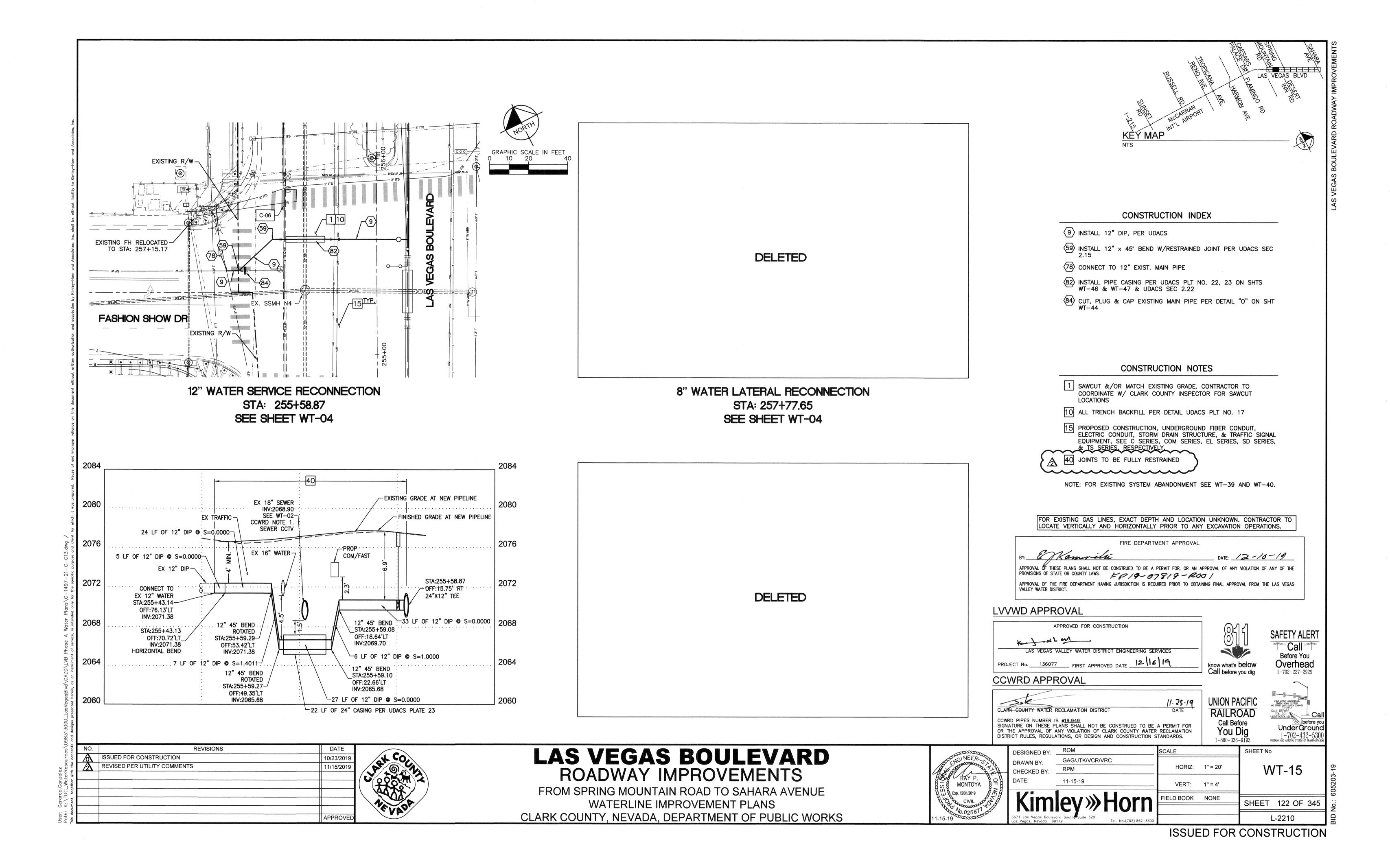
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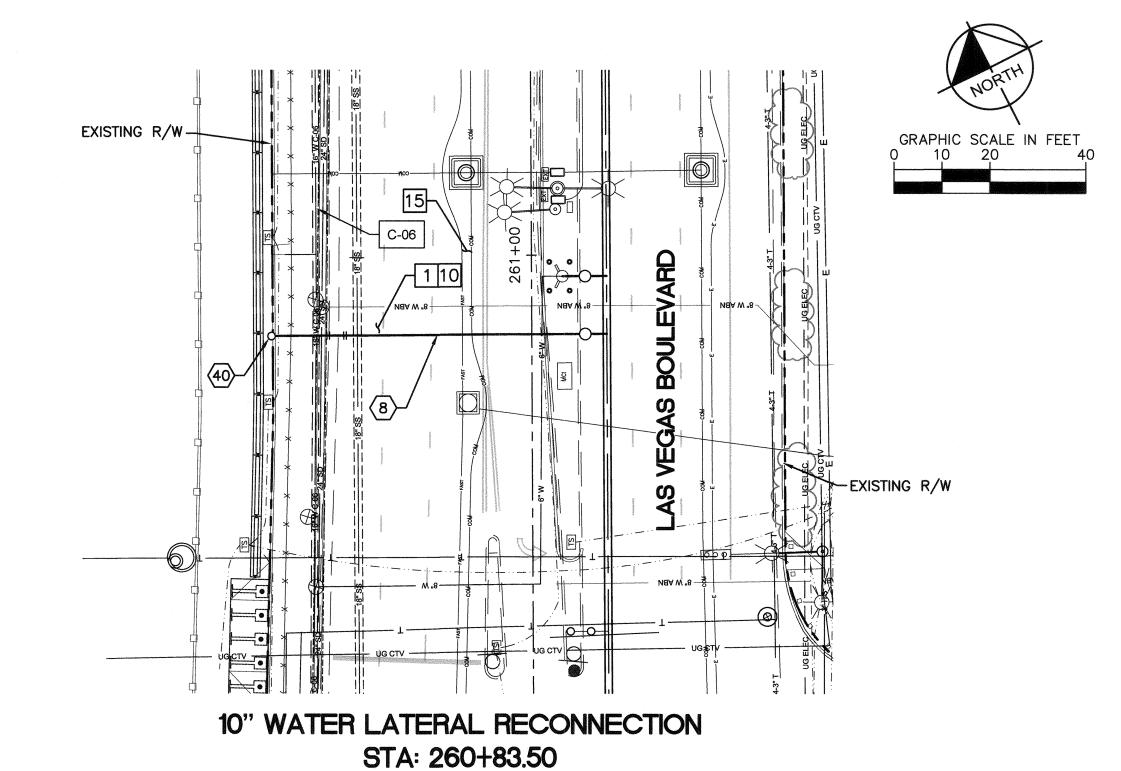
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

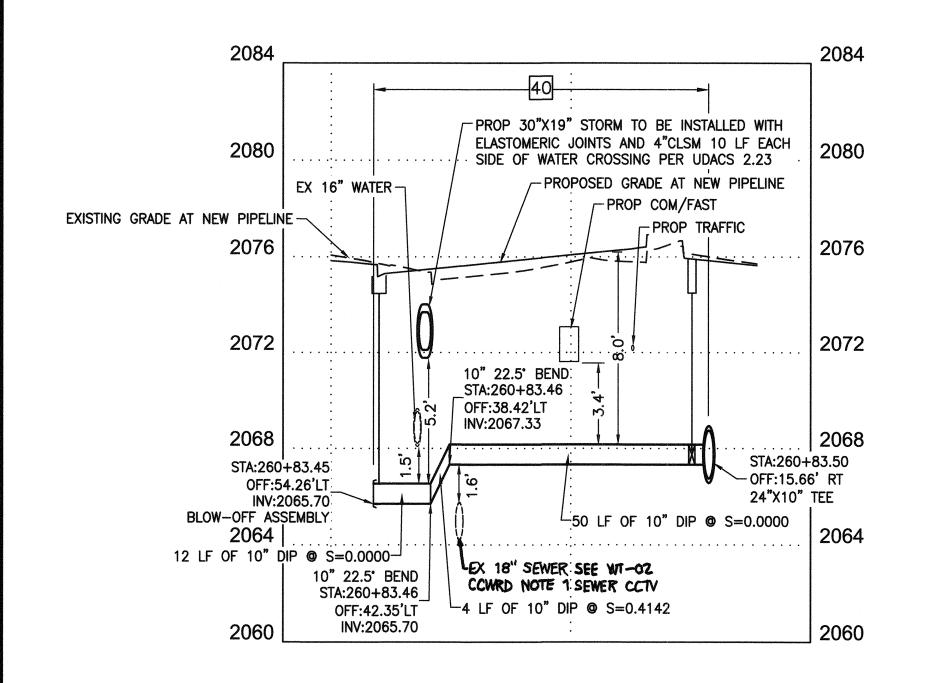


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	DRAWN BY:	GAG/JTK/VCR/VRC					
A	CHECKED BY:	RPM	HORIZ:	1" = 20'	l W	/T-13	
	DATE:	11-15-19	VERT:	1" = 4'			
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	6671 Las Vegas Boulev Las Vegas, Nevada 89	ard South, Suite 320			L	-2210	

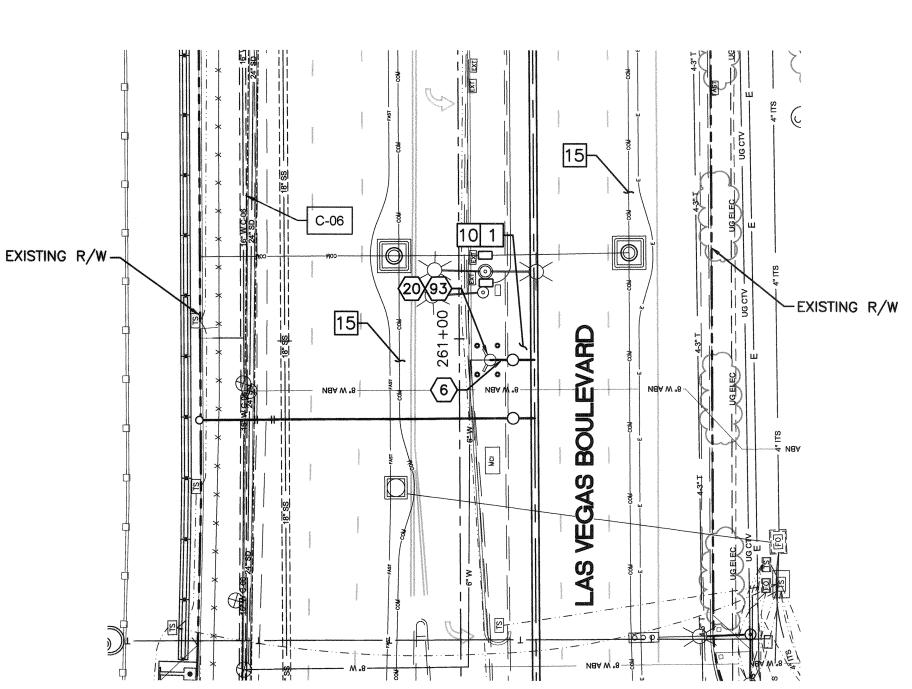




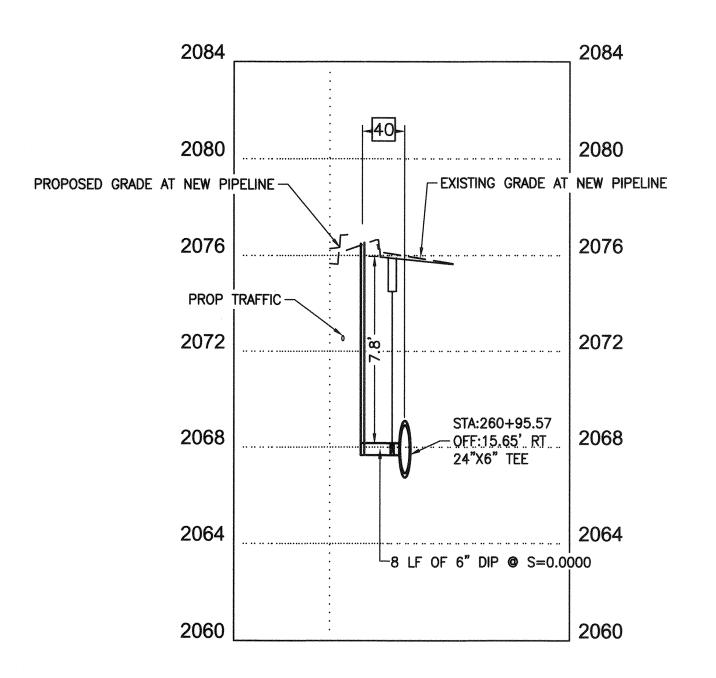


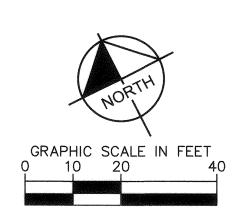


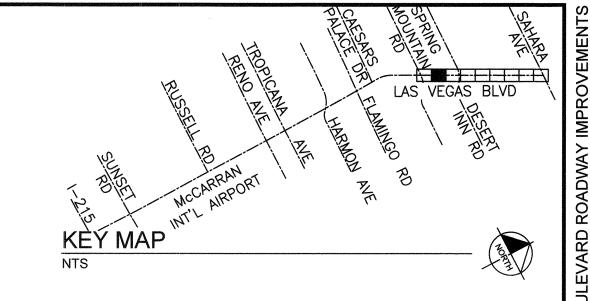
SEE SHEET WT-04



6" WATER LATERAL RECONNECTION STA: 260+95.57 SEE SHEET WT-04





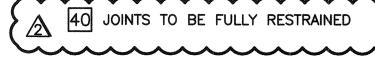


CONSTRUCTION INDEX

- 6 INSTALL 6" DIP, PER UDACS
- 8 INSTALL 10" DIP, PER UDACS
- 20 INSTALL PROTECTIVE BOLLARD PER UDACS PLT NO. 75 ON WT-51
- (40) INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLT NO. 36 ON SHT WT-48
- 93 RECONNECT/RELOCATE FIRE HYDRANT PER UDACS PLT NO. 40 & 41 ON SHT WT-50

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGN/ EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES,



NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL DATE: 12-10-19 & Kaminila APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS. &P19-07819-ROO! APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION * talas LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19 **CCWRD APPROVAL**



Before You Overhead know what's **below**Call before you dig 1-702-227-2929

UNION PACIFIC

UnderGround

SAFETY ALERT

11.25-19 CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Call Before You Dig

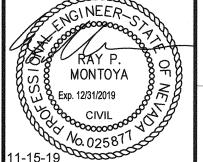
1-702-432-530 freeway and arterial system of transporta WT-16

REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019

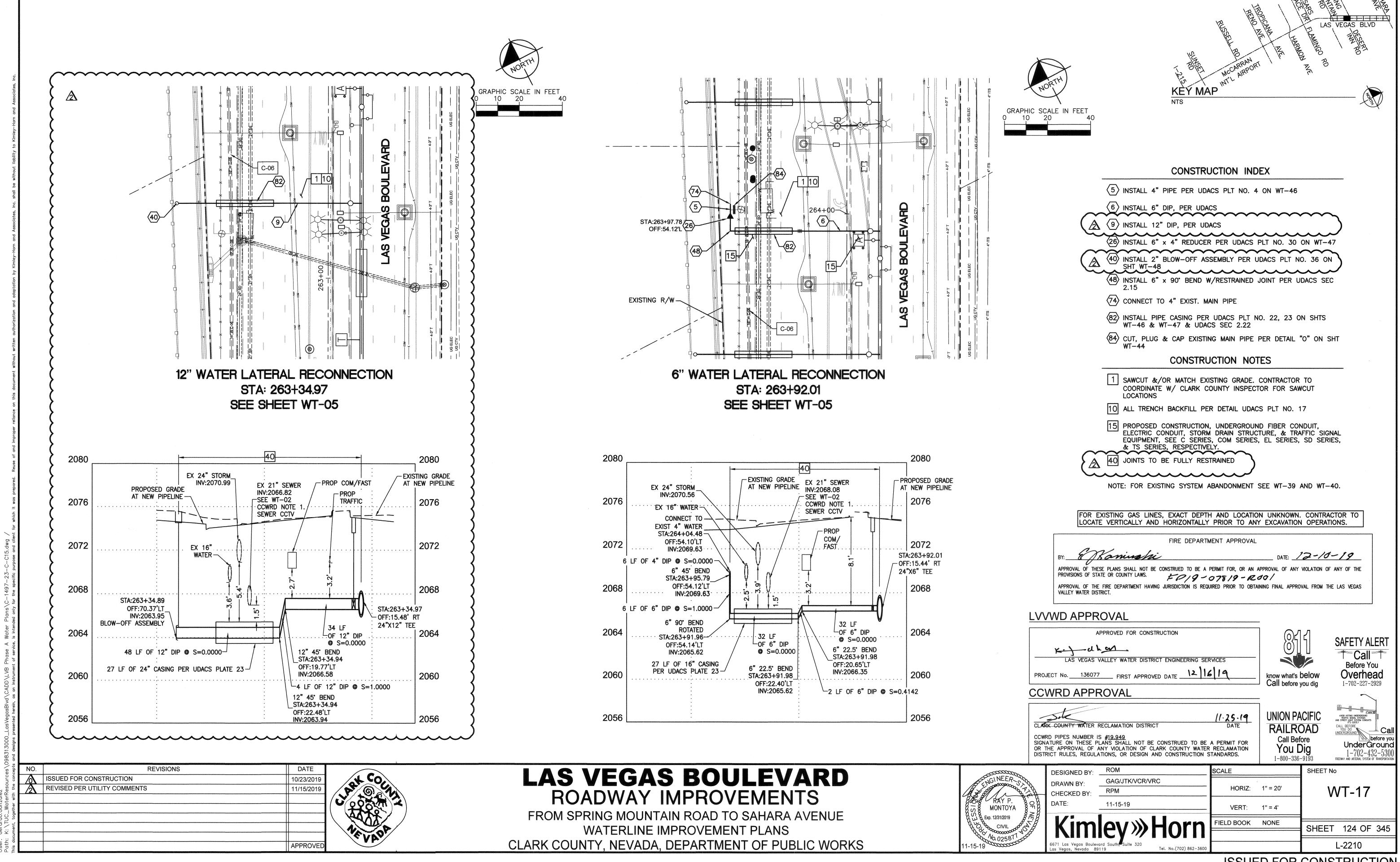


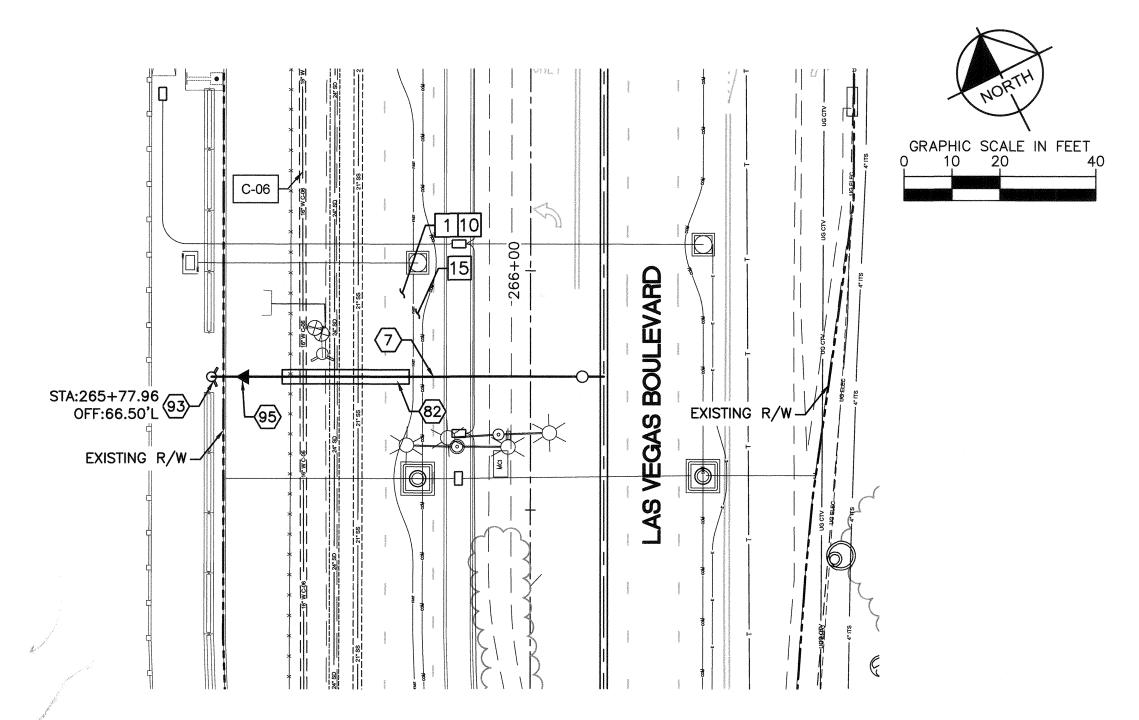
APPROVE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

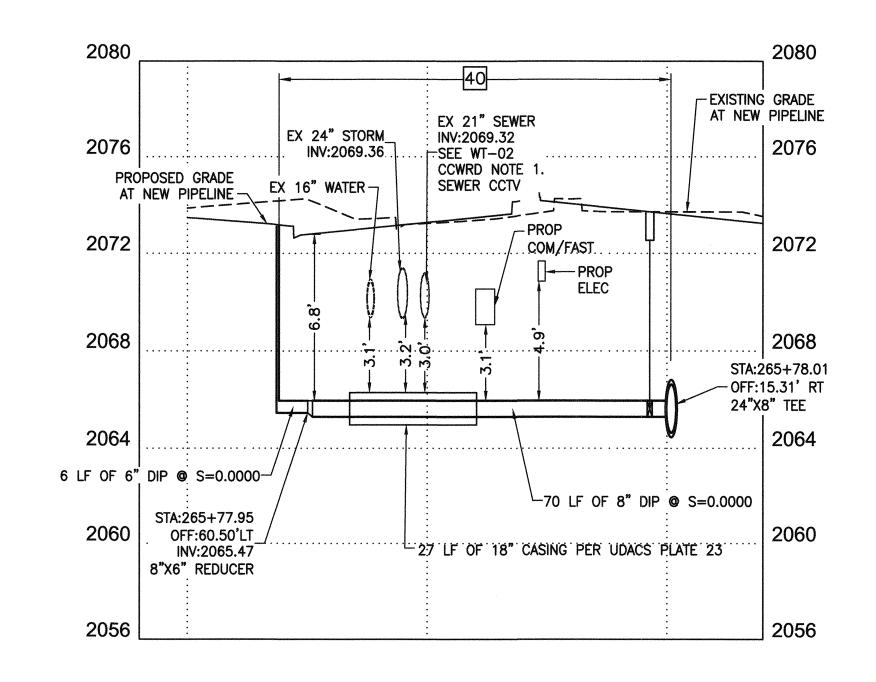


Teritoria de la composición de la comp				1-800-336	-9193 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
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DE NIZA	DATE:	11-15-19	VERT:	1" = 4'	
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8" WATER LATERAL RECONNECTION STA: 265+78.01 SEE SHEET WT-05



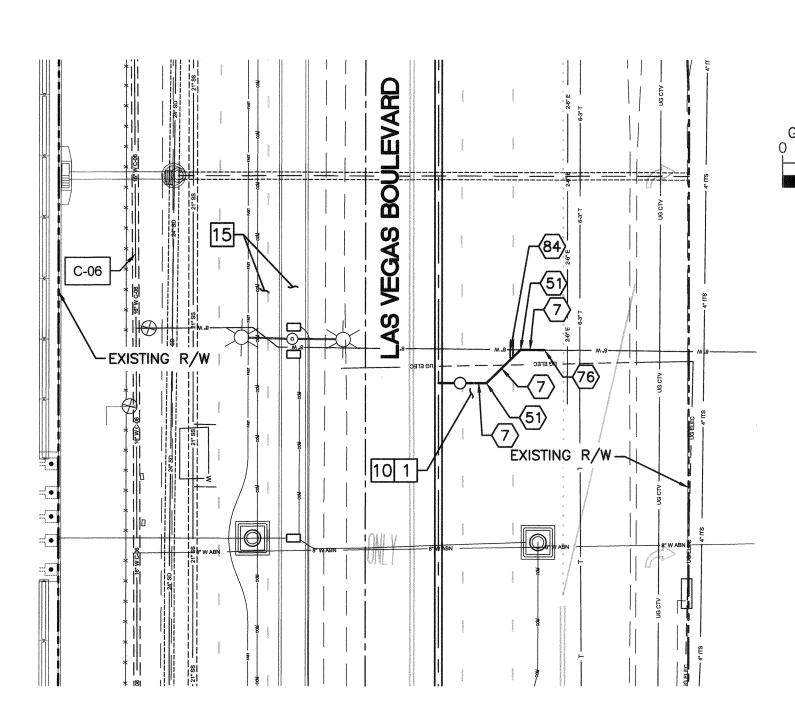
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11/15/2019

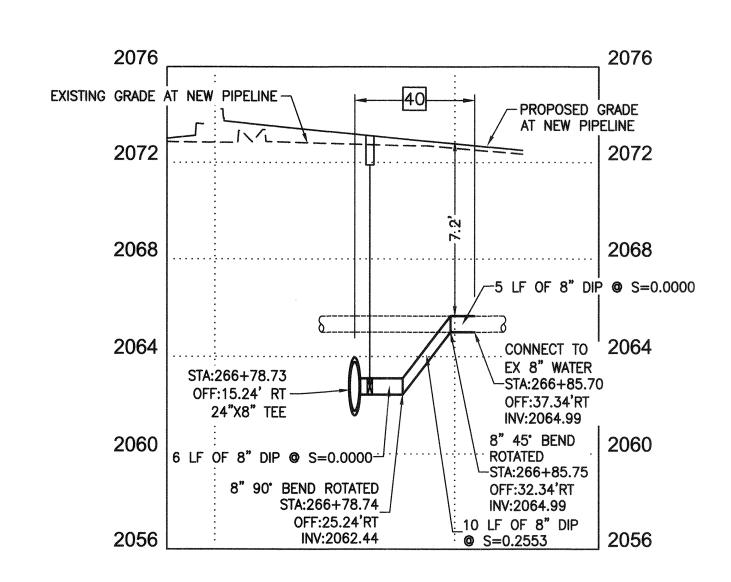
REVISIONS

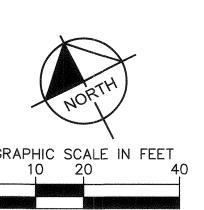
ISSUED FOR CONSTRUCTION

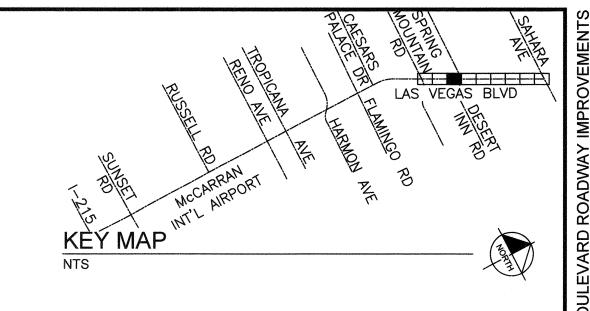
REVISED PER UTILITY COMMENTS



8" WATER LATERAL RECONNECTIONS STA: 266+78.73 SEE SHEET WT-05







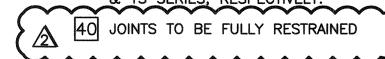
CONSTRUCTION INDEX

- 7 INSTALL 8" DIP, PER UDACS
- 51) INSTALL 8" x 45° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- 76 CONNECT TO 8" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- 84 CUT, PLUG & CAP EXISTING MAIN PIPE PER DETAIL "O" ON SHT WT-44
- 93 RECONNECT/RELOCATE FIRE HYDRANT PER UDACS PLT NO. 40 & 41 ON SHT WT-50
- 95 INSTALL 8" \times 6" REDUCER PER UDACS PLT NO. 30 ON SHT WT-47

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & TS SERIES, RESPECTIVELY.

 40 JOINTS TO BE FULLY RESTRAINED



NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL DATE: 12-10-19 PROVISIONS OF STATE OR COUNTY LAWS. FP19-07819-12001 APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION Ket ahm LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19



Call before you dig

CCWRD APPROVAL

11.25.19 CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

UNION PACIFIC RAILROAD Call Before You Dig

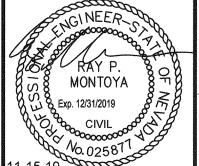


SAFETY ALERT

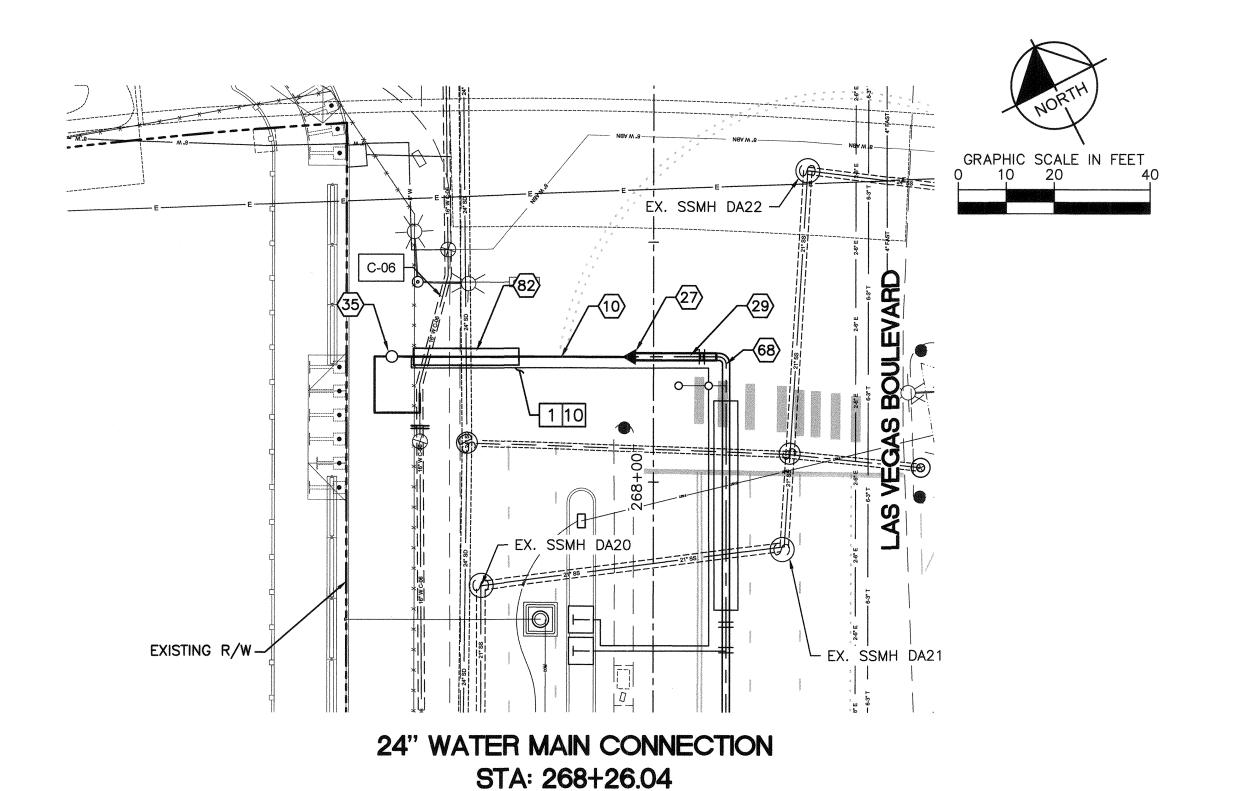
↑ Call ↑

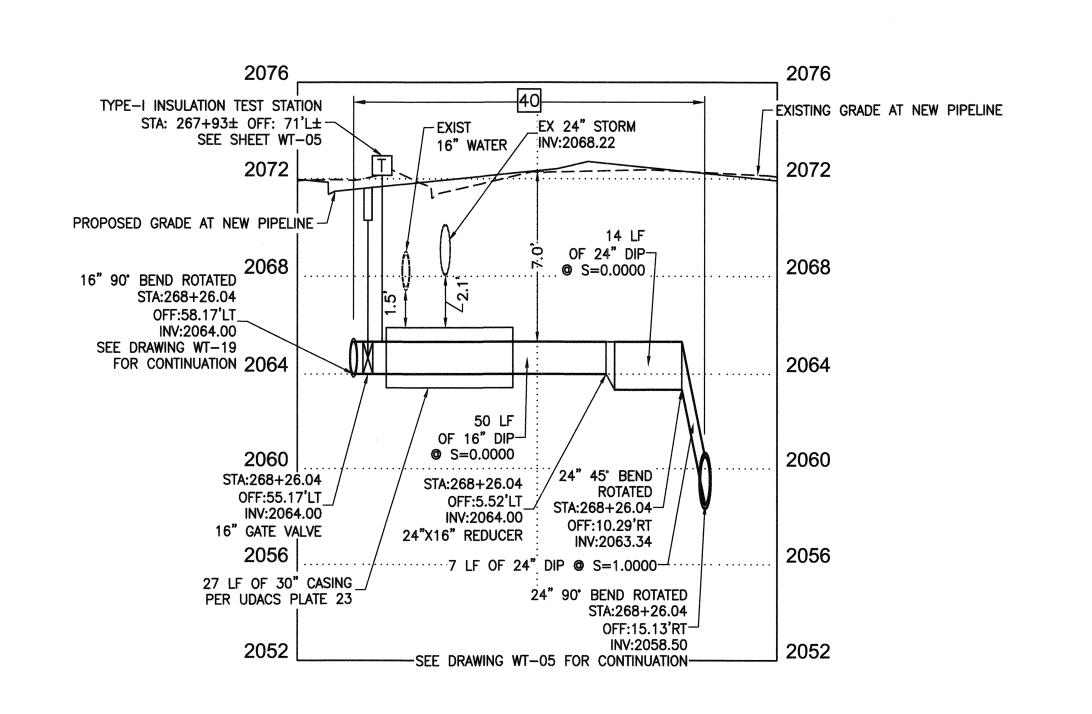
Overhead

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



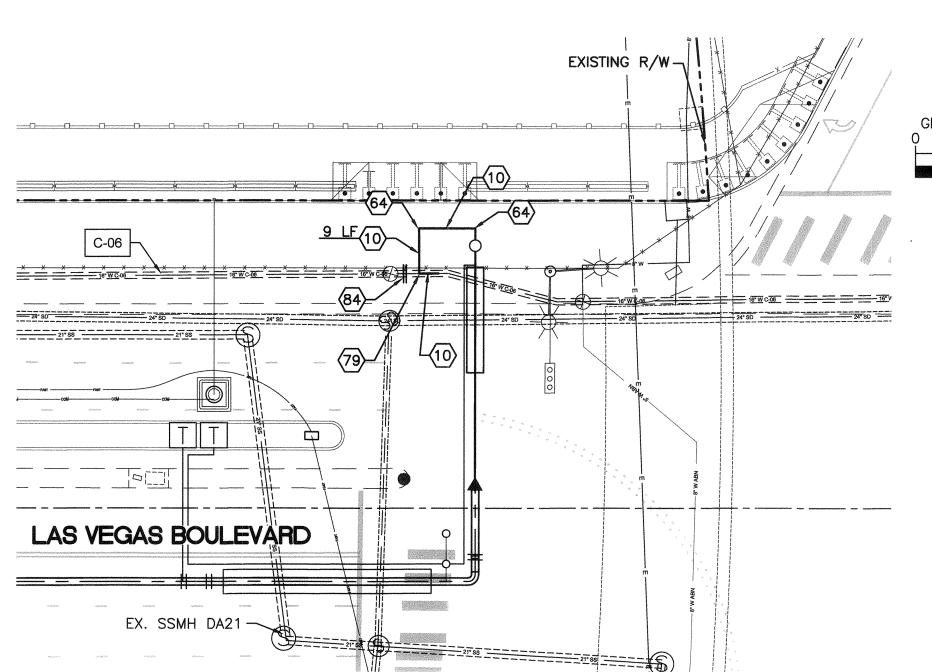
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6671 Las Vegas Bouleva Las Vegas, Nevada 891	rd South, Suite 320	

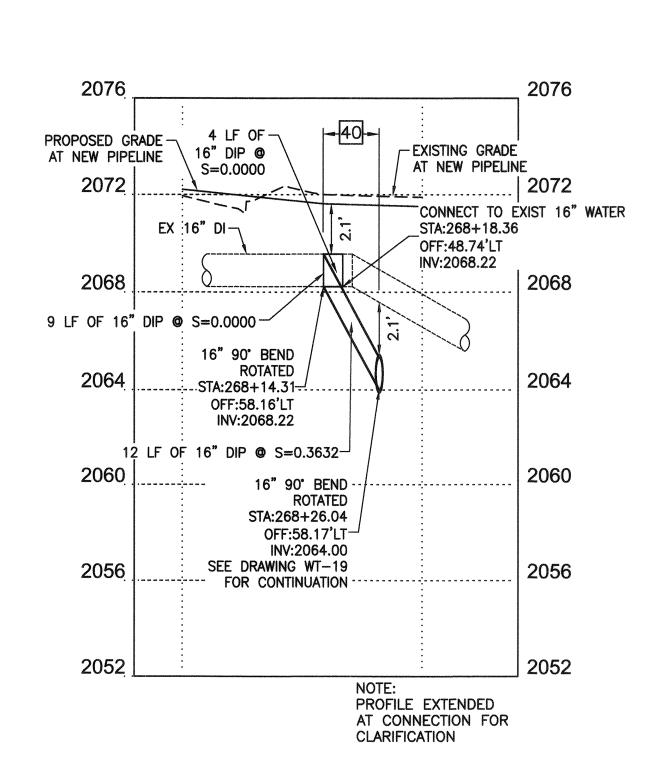




APPROVE

SEE SHEET WT-05

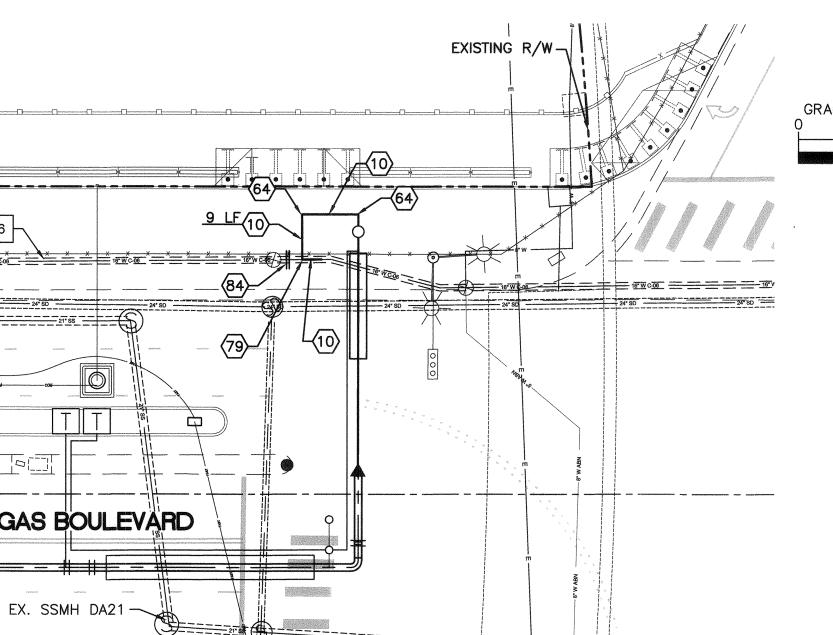




16" WATER LATERAL RECONNECTION

STA: 268+14.76

SEE SHEET WT-05



CONSTRUCTION INDEX

- 10 INSTALL 16" DIP, PER UDACS
- 27 INSTALL 24" x 16" REDUCER PER UDACS PLT NO. 30 ON WT-47
- 29 INSTALL 24" DIP, PER UDACS
- INSTALL 16" GATE VALVE PER DETAIL "O" & "U" ON SHTS WT-44 & WT-45 & UDACS PLT NO. 30, 39 ON SHTS WT-47 & WT-49
- (64) INSTALL 16" x 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- 68 INSTALL 24" x 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- 79 CONNECT TO 16" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- 84 CUT, PLUG & CAP EXISTING MAIN PIPE PER DETAIL "O" ON SHT WT-44

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17



NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

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FIRE DEPARTMENT APPROVAL 8 Kaminsla DATE: 12-10-19 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS. $EP19-\sigma7819-Poo1$ APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION K. fahm

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. ____136077 FIRST APPROVED DATE ___12 | 16 | 19



SAFETY ALERT † Call † Before You Overhead 1-702-227-2929

CCWRD APPROVAL

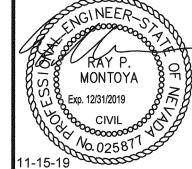
11.25.19 CLARK COUNTY WATER RECLAMATION DISTRICT CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

UNION PACIFIC RAILROAD Call Before You Dia

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY CALL BEFORE VOU DO UNDERGROUND CAIL DEFORE YOU DO DEFORE YOU UnderGround

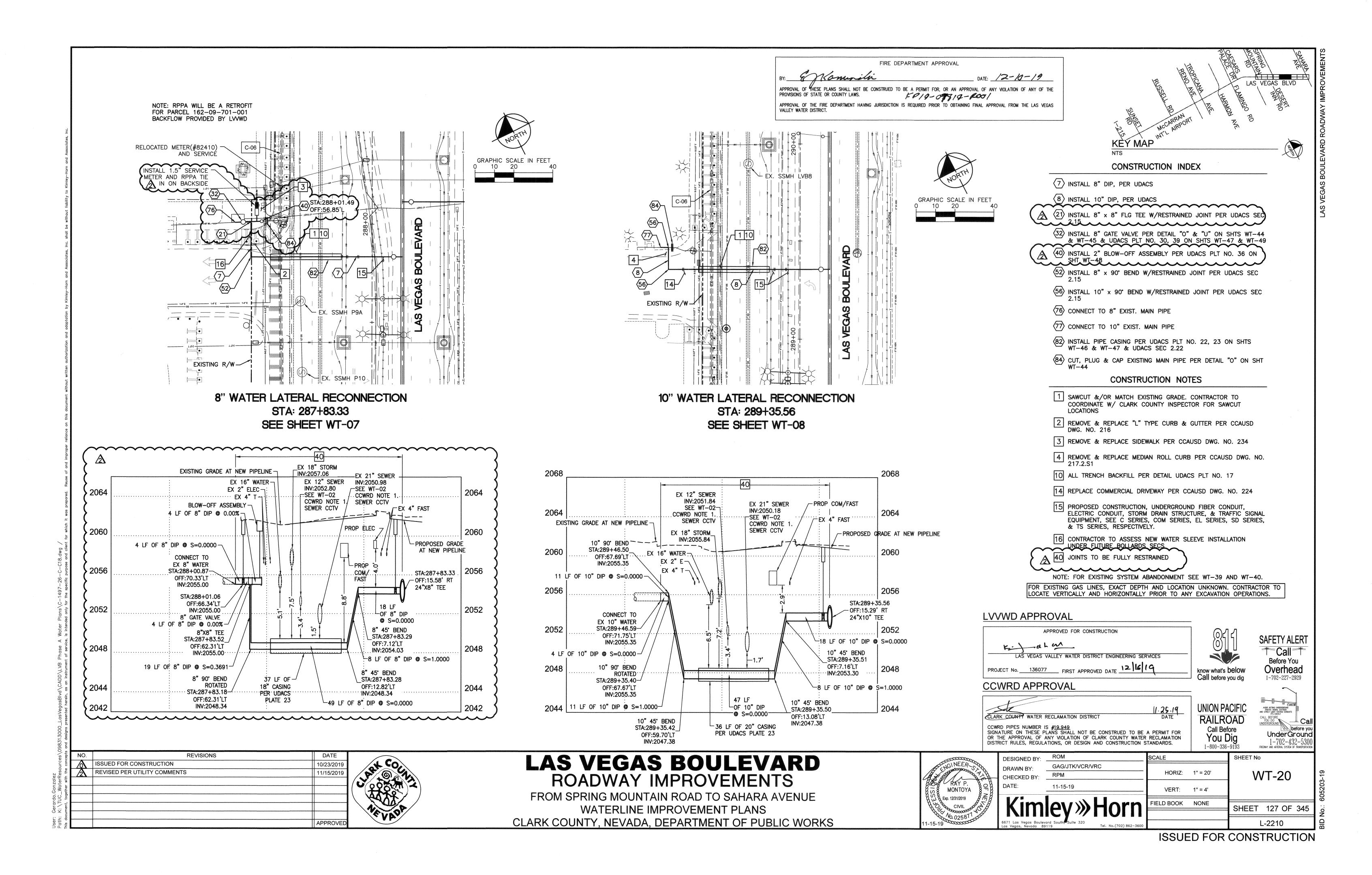
REVISIONS A ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019

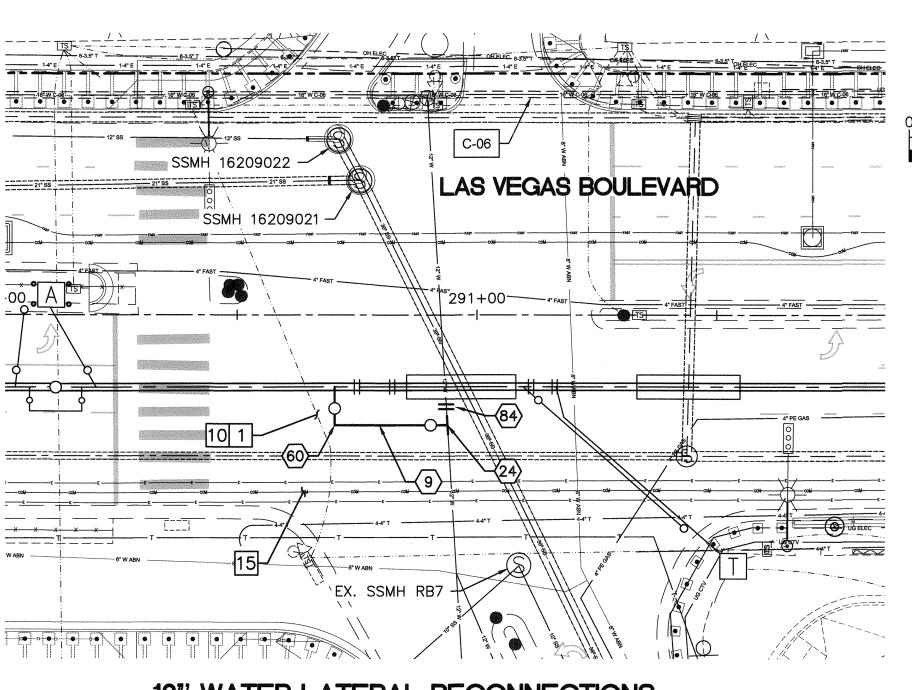
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



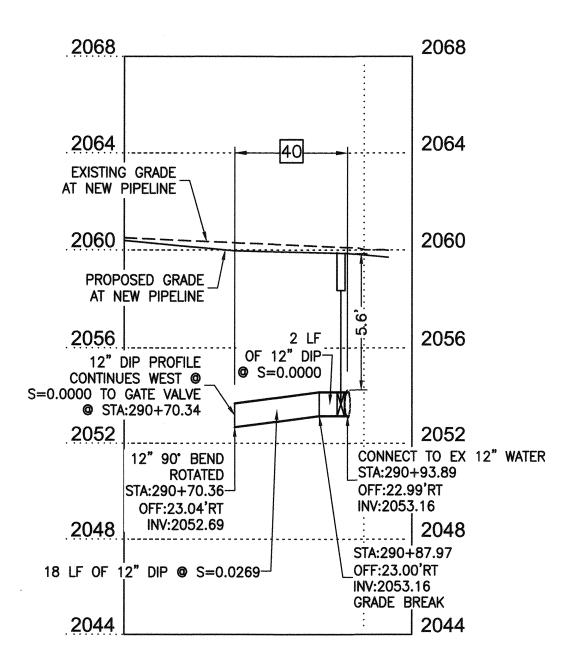
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	Kim 6671 Las Vegas Bouleve Las Vegas, Nevada 89	ley» Horn	FIE

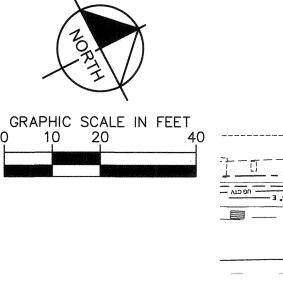
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	DESIGNED BY:	ROM	SCALE		SHEET No
	DRAWN BY:	GAG/JTK/VCR/VRC			_ `
- 0	CHECKED BY:	RPM	HORIZ:	1" = 20'	WT-19
	DATE:	11-15-19	VERT:	1" = 4'	
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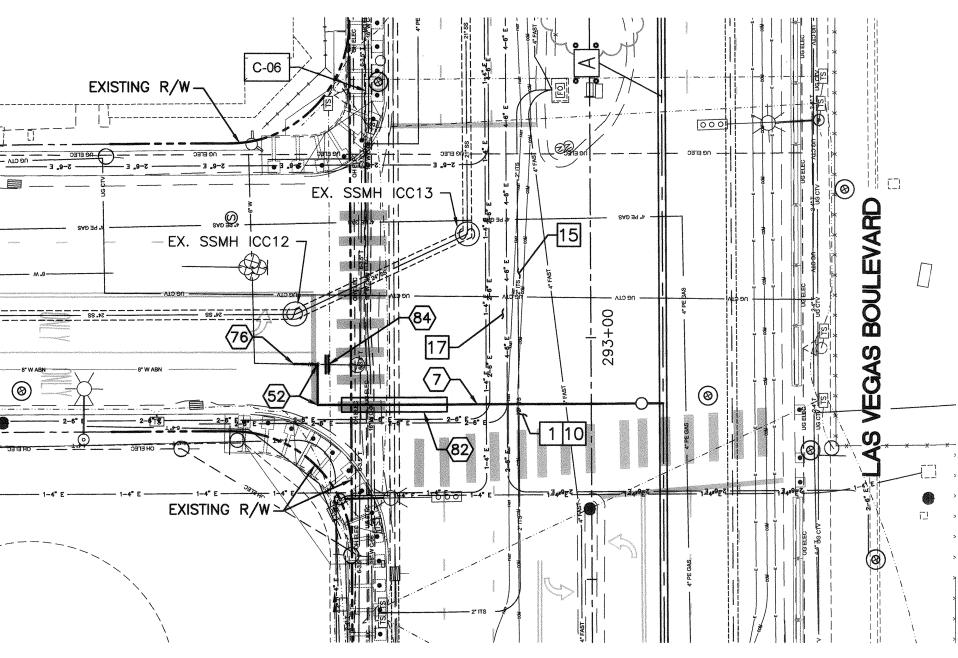




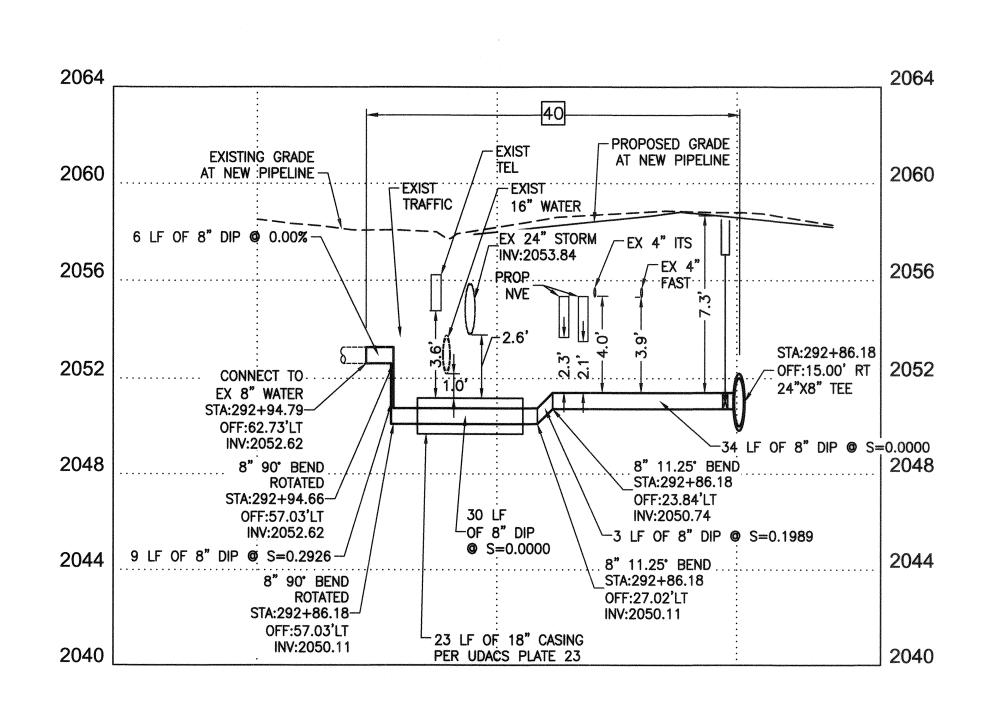
12" WATER LATERAL RECONNECTIONS STA: 290+70.34 SEE SHEET WT-08

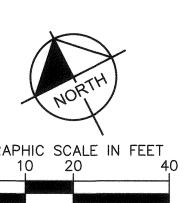


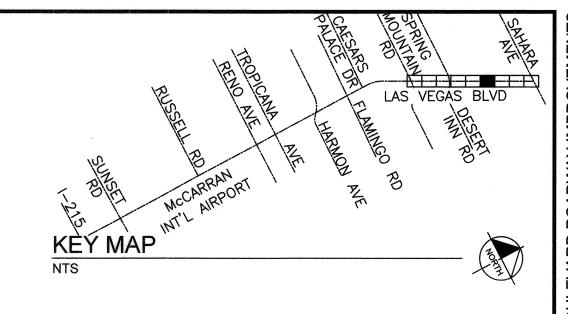




8" WATER LATERAL RECONNECTION STA: 292+86.18 SEE SHEET WT-08







CONSTRUCTION INDEX

- 7 INSTALL 8" DIP, PER UDACS
- (9) INSTALL 12" DIP, PER UDACS
- 24 INSTALL 12" x 12" TAPPING SLEEVE & VALVE PER UDACS PLT NO. 34,35 & 39 ON SHTS WT-47 & WT-49 & UDACS SEC
- 52 INSTALL 8" x 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- 60 INSTALL 12" x 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- 76 CONNECT TO 8" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- 84 CUT, PLUG & CAP EXISTING MAIN PIPE PER DETAIL "O" ON SHT

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & IS SERIES, RESPECTIVELY.
- 17 PROPOSED NVENERGY CONDUIT, SHOWN FOR REFERENCE ONLY

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL E Kaminela DATE: 12-10-19 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

19-07819-2001 APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19



CCWRD APPROVAL

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

UNION PACIFIC RAILROAD Call Before You Dig



SAFETY ALERT

Before You

Overhead

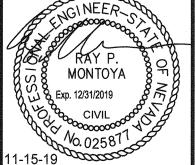
1-702-227-2929

HORIZ: 1'' = 20'VERT: 1" = 4'

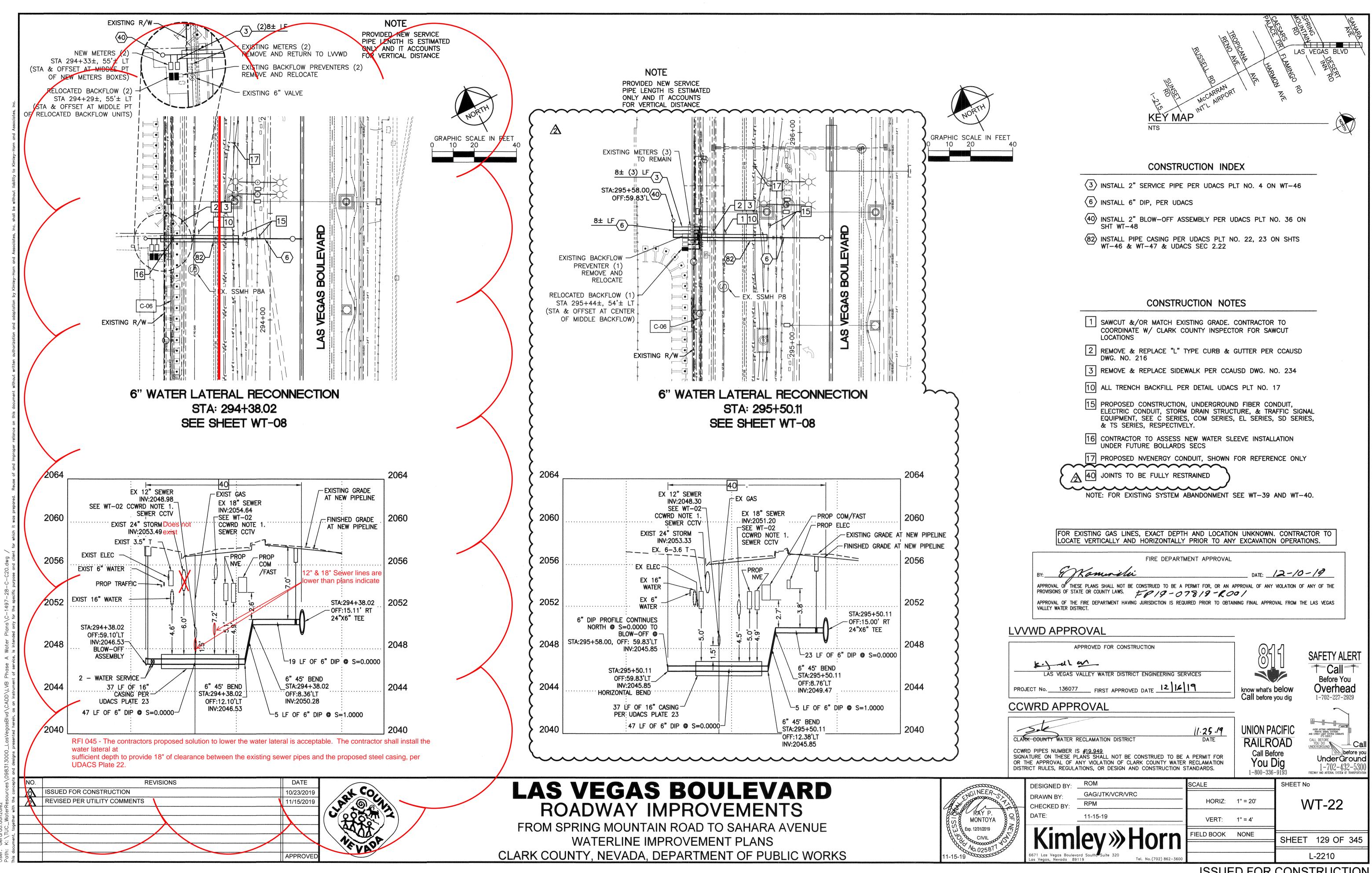
1-702-432-530 freeway and arterial system of transporta SHEET No WT-21

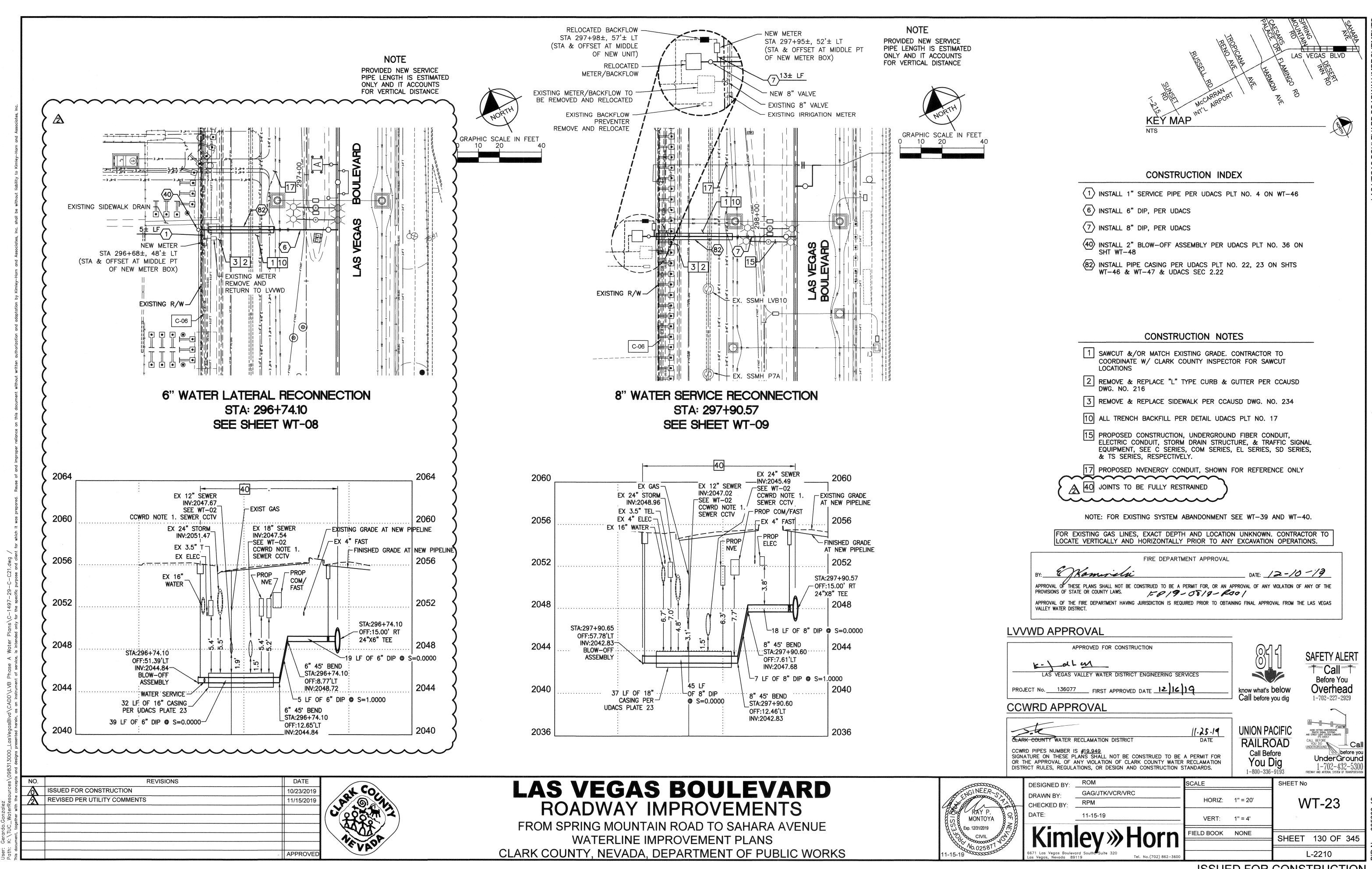
ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019 APPROVE

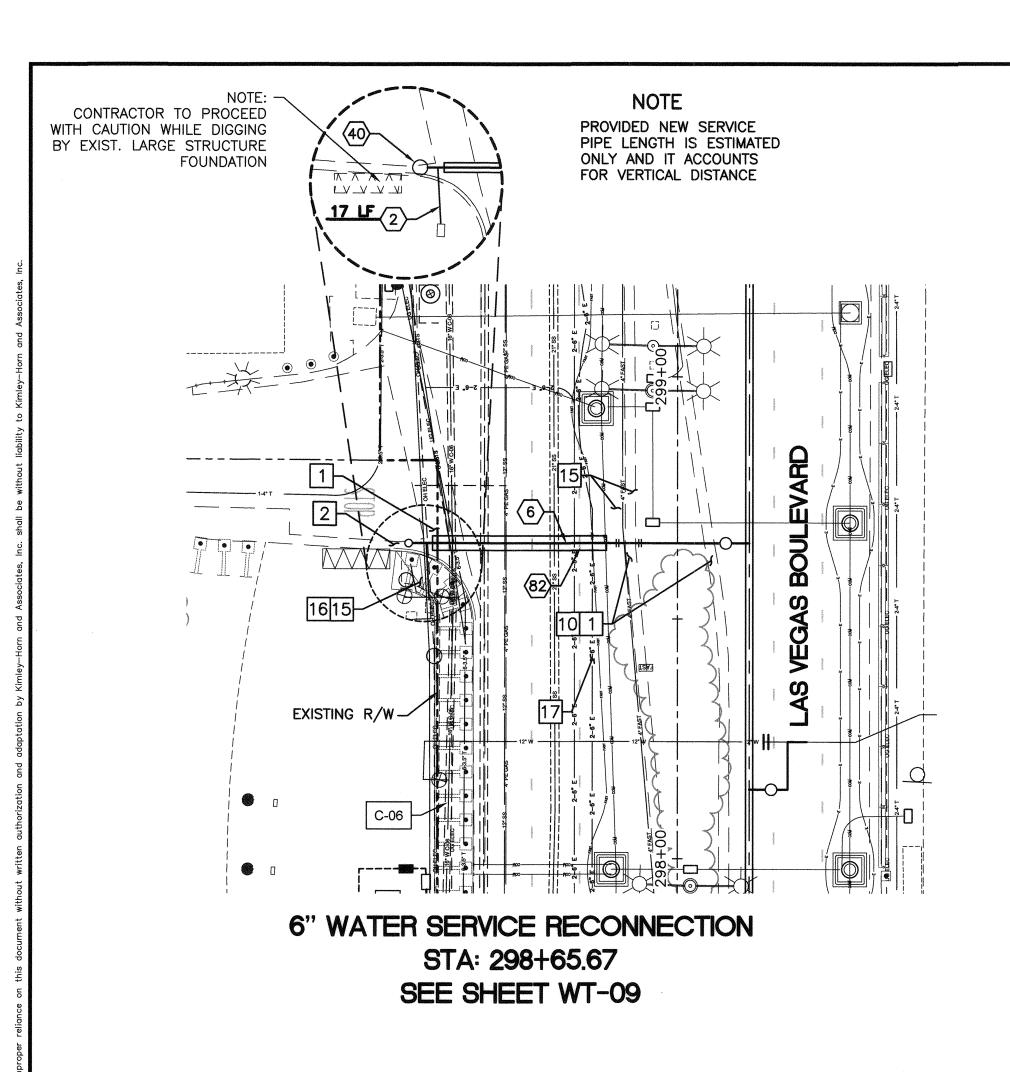
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

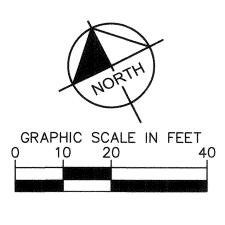


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	DESIGNED BY:	ROM		SCALE	
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3	DATE:	11-15-19		VERT:	1" = 4'
3	Kim	lev»Ho	\rn	FIELD BOOK	NONE
		ICY /// I I L			
	6671 Las Vegas Boulev Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862–3600		









2060

2052

2048

2040

- EXISTING GRADE

FINISHED GRADE

- AT NEW PIPELINE

STA:298+65.67

- OFF:15.00' RT

24"X6" TEE

-18 LF OF 6" DIP @ S=0.0000

6" 45° BEND

OFF:7.80'LT

INV:2047.24

6" 45° BEND

INV:2042.54

APPROVE

STA:298+65.70 OFF:12.50'LT

STA:298+65.69

...7 LF OF 6" DIP @ S=1.0000...

AT NEW PIPELINE

EX 24" SEWER

INV:2045.01

-SEE WT-02

CCWRD NOTE

SEWER CCTV

COM:/

EX 12" SEWER

INV:2046.64

CCWRD NOTE

SEWER CCTV

EX GAS

SEE WT-02

EX 24" STORM

EX 4" ITS-

EX 16" WATER-

STA:298+65.74

OFF:56.05'LT

INV:2042.54

BLOW-OFF:

ASSEMBLY

WATER SERVICE -

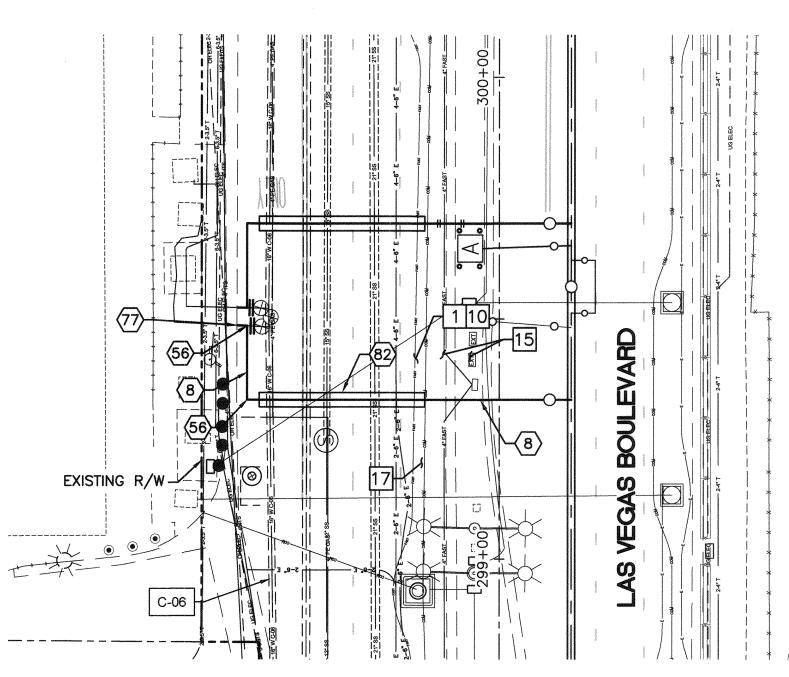
37 LF OF 16" CASING PER UDACS PLATE 23-

INV:2049.17

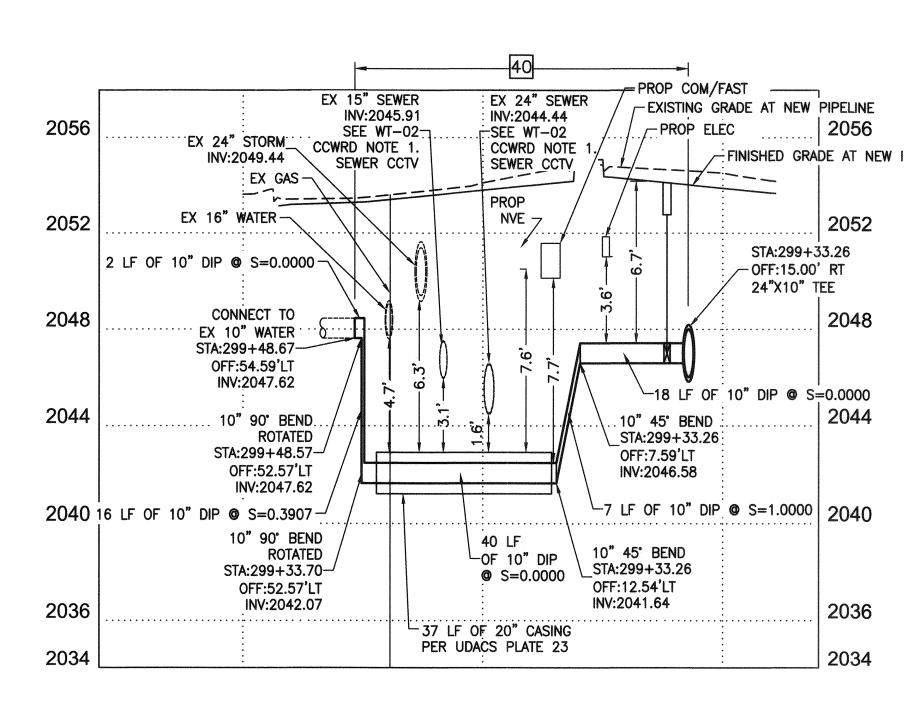
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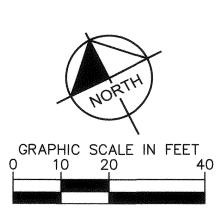
2052

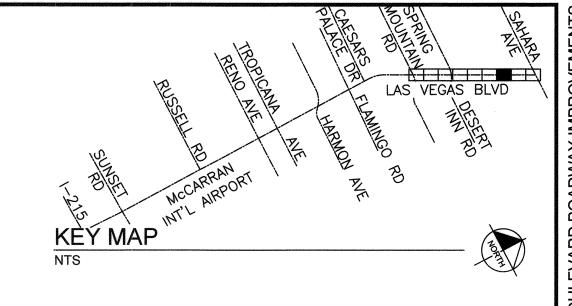
2048



10" WATER SERVICE RECONNECTION STA: 299+33.26 SEE SHEET WT-09







CONSTRUCTION INDEX

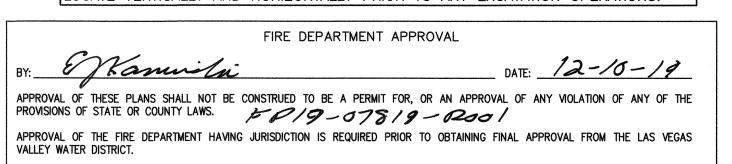
- 2 INSTALL 1-1/2" SERVICE PIPE PER UDACS PLT NO. 4 ON WT-46
- 6 INSTALL 6" DIP, PER UDACS
- (8) INSTALL 10" DIP, PER UDACS
- (40) INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLT NO. 36 ON SHT WT-48
- (56) INSTALL 10" x 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- CONNECT TO 10" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 2 REMOVE & REPLACE "L" TYPE CURB & GUTTER PER CCAUSD DWG. NO. 216
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & TS SERIES, RESPECTIVELY.
- 16 CONTRACTOR TO ASSESS NEW WATER SLEEVE INSTALLATION UNDER FUTURE BOLLARDS SECS
- 17 PROPOSED NVENERGY CONDUIT, SHOWN FOR REFERENCE ONLY
- 40 JOINTS TO BE FULLY RESTRAINED

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN, CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.



LVVWD APPROVAL

APPROVED FOR CONSTRUCTION * Jalan LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12/16/19



SAFETY ALERT † Call † Before You Overhead 1-702-227-2929

CCWRD APPROVAL

ste	11.25.19
SLARK COUNTY WATER RECLAMATION DISTRICT	DATE
CCWRD PIPES NUMBER IS #19.949 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION S	RECLAMATION



Call before you dig



1-800-336-9193 SHEET No

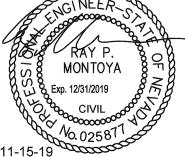
WT-24 SHEET 131 OF 345

L-2210

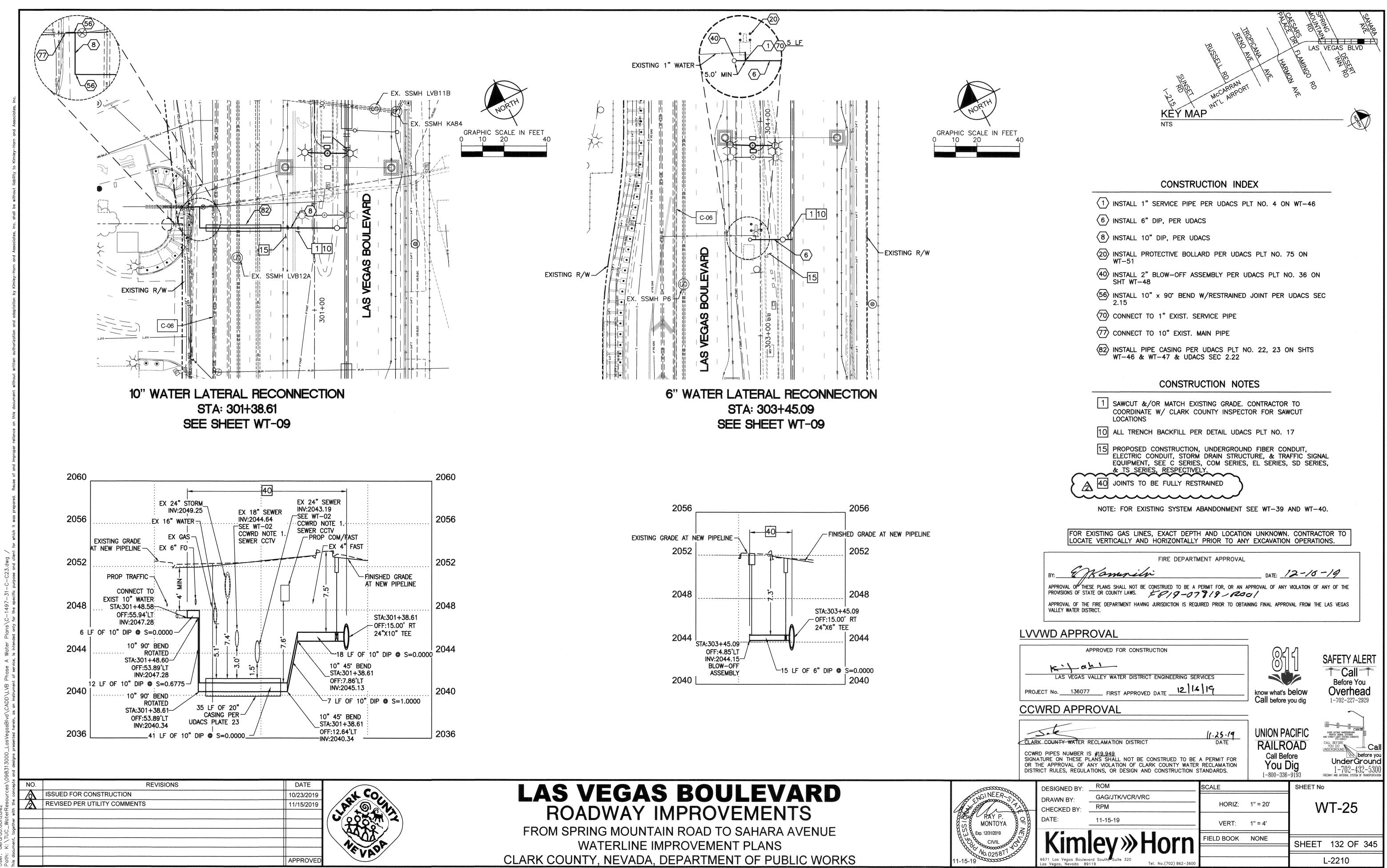
REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019

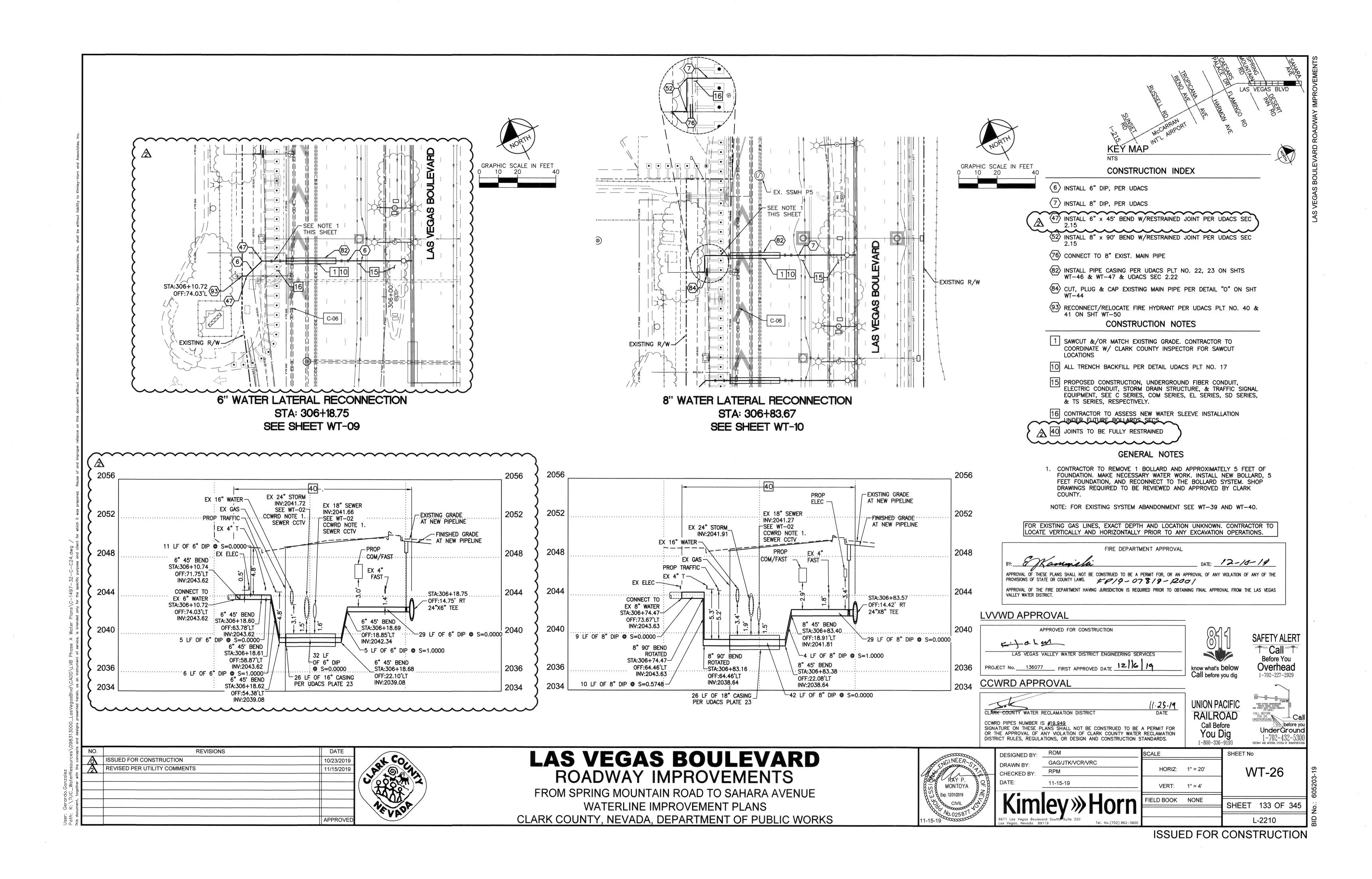
44 LF OF 6" DIP @ S=0.0000-

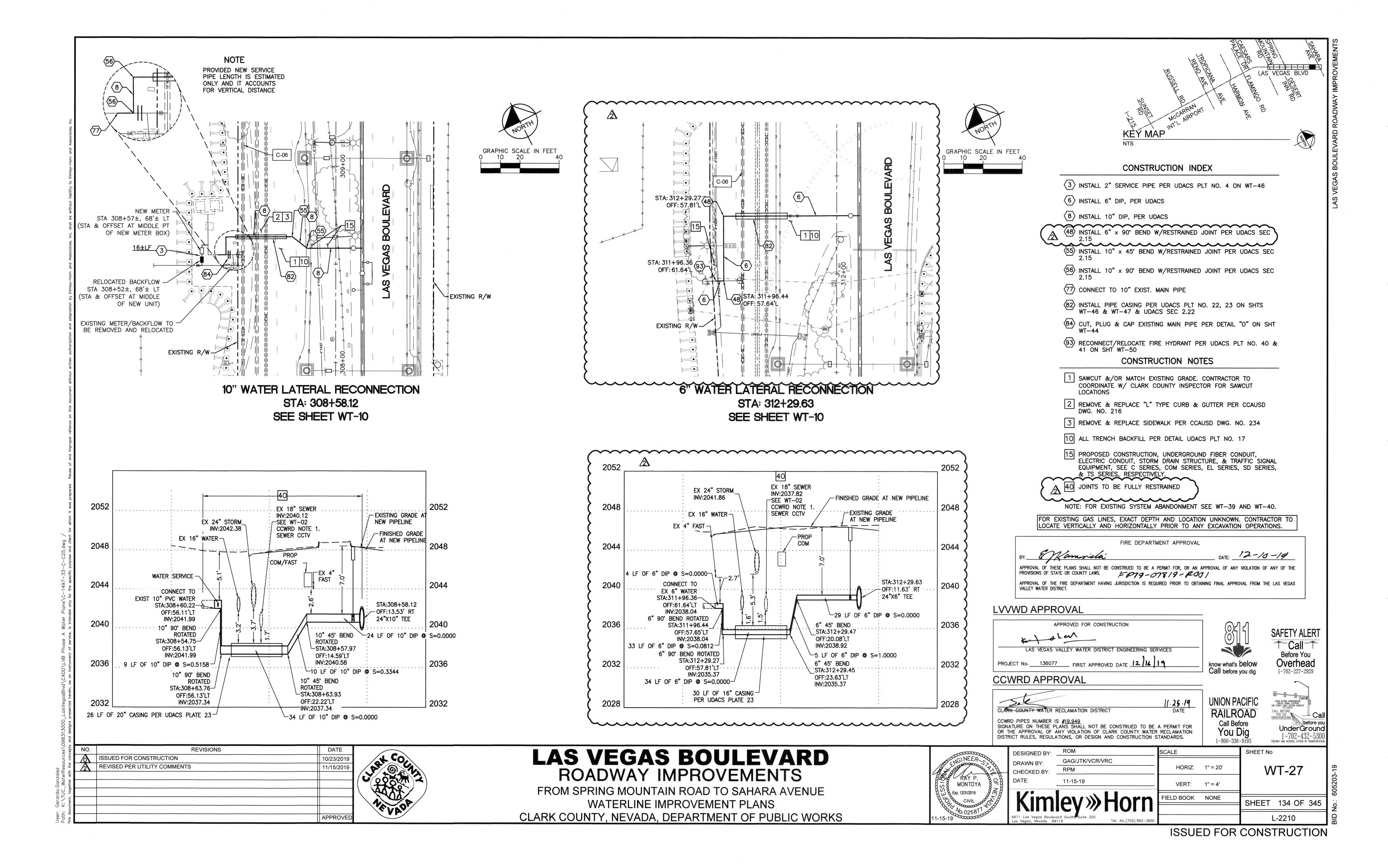
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

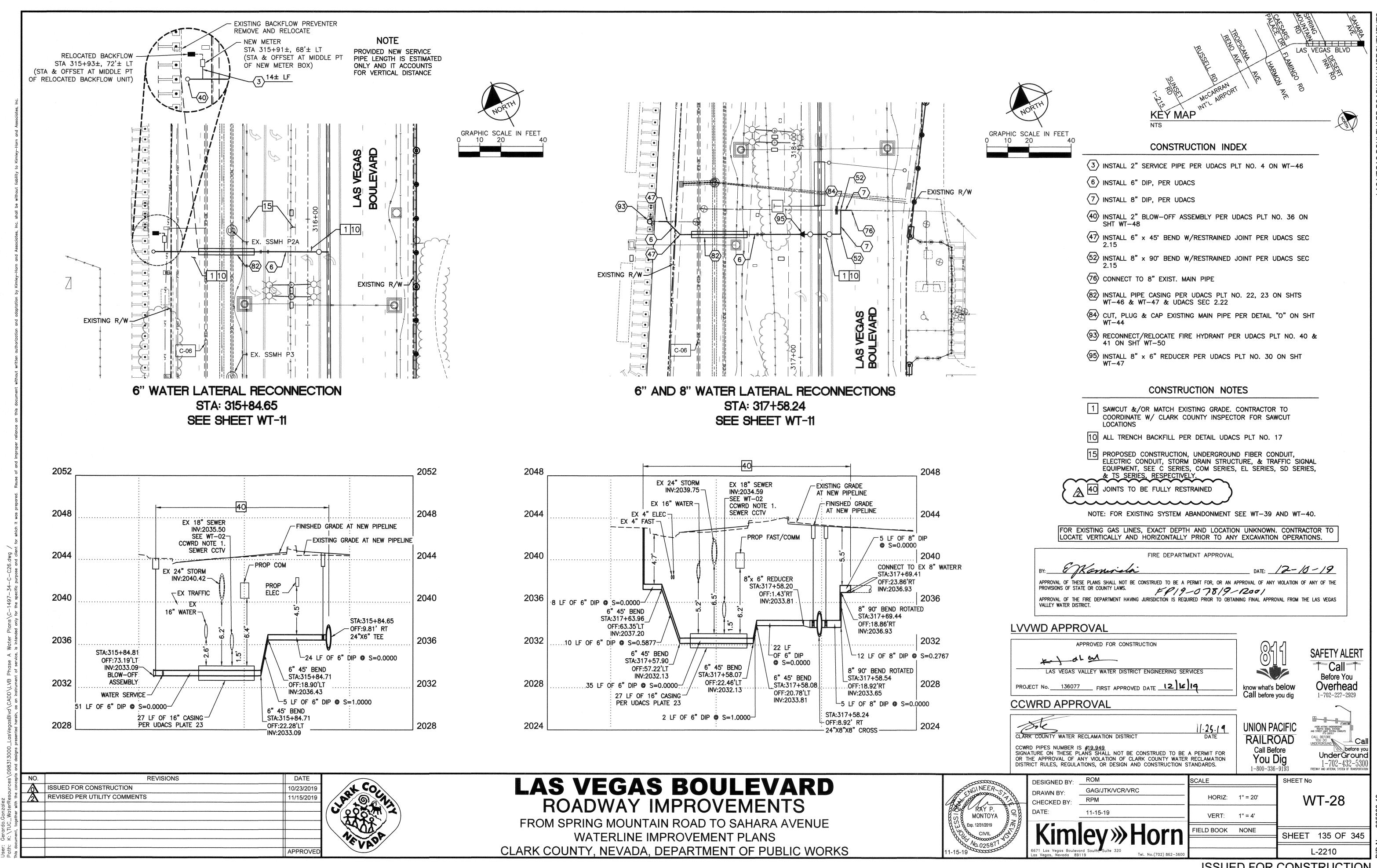


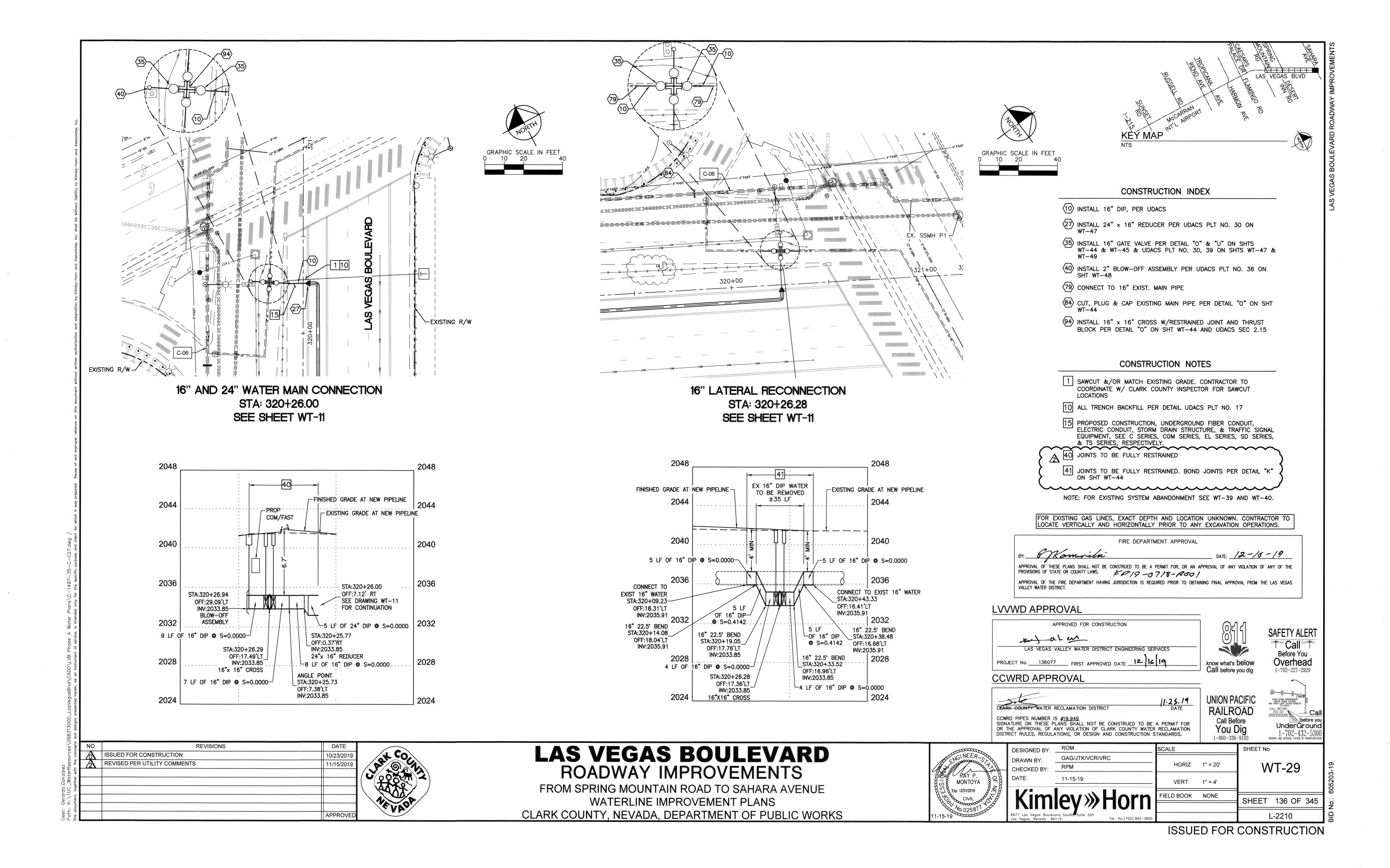
	DESIGNED BY:	RUM		SCALE
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	CHECKED BY:	RPM		НО
	DATE:	11-15-19		VEI
B				FIELD BO
9			HAM	LIELD B
	6671 Las Vegas Boulevo Las Vegas, Nevada 89		Tel. No.(702) 862-3600	

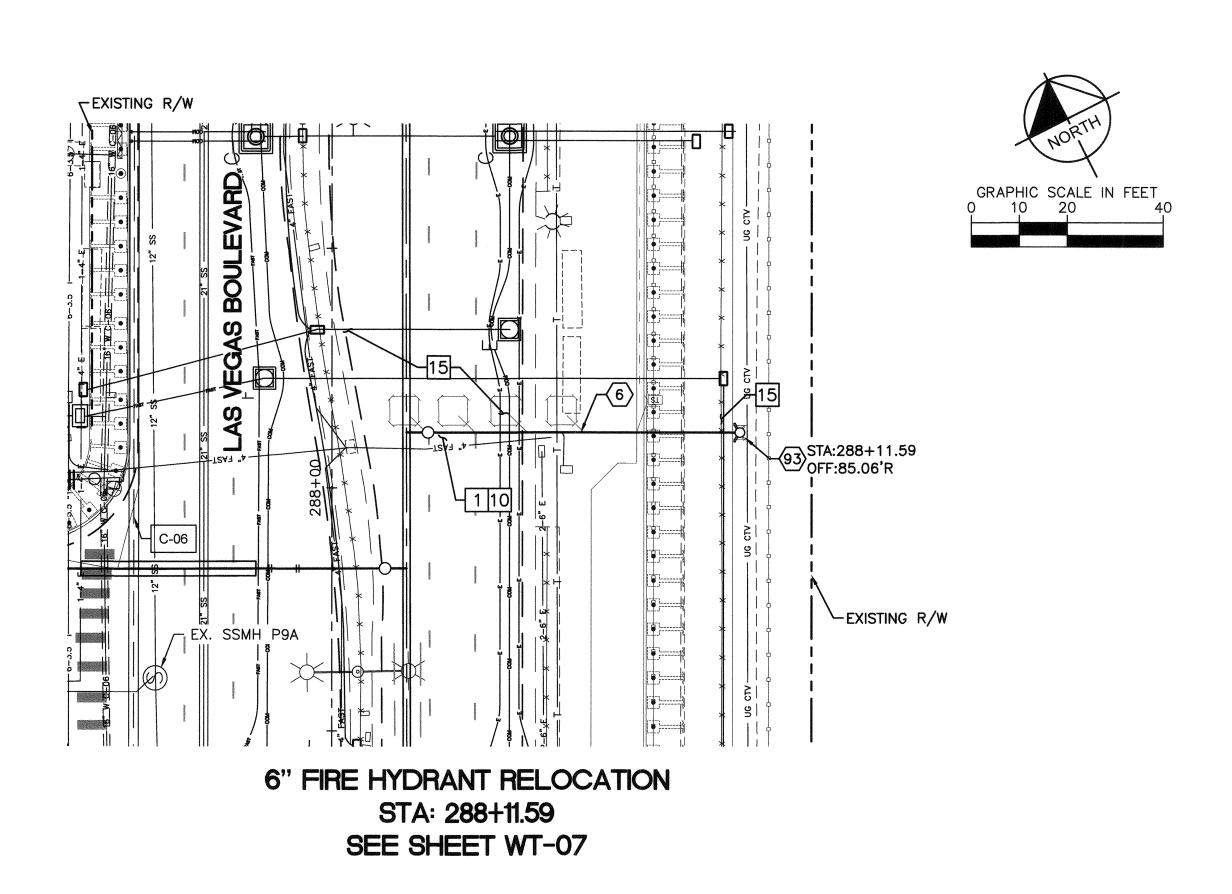


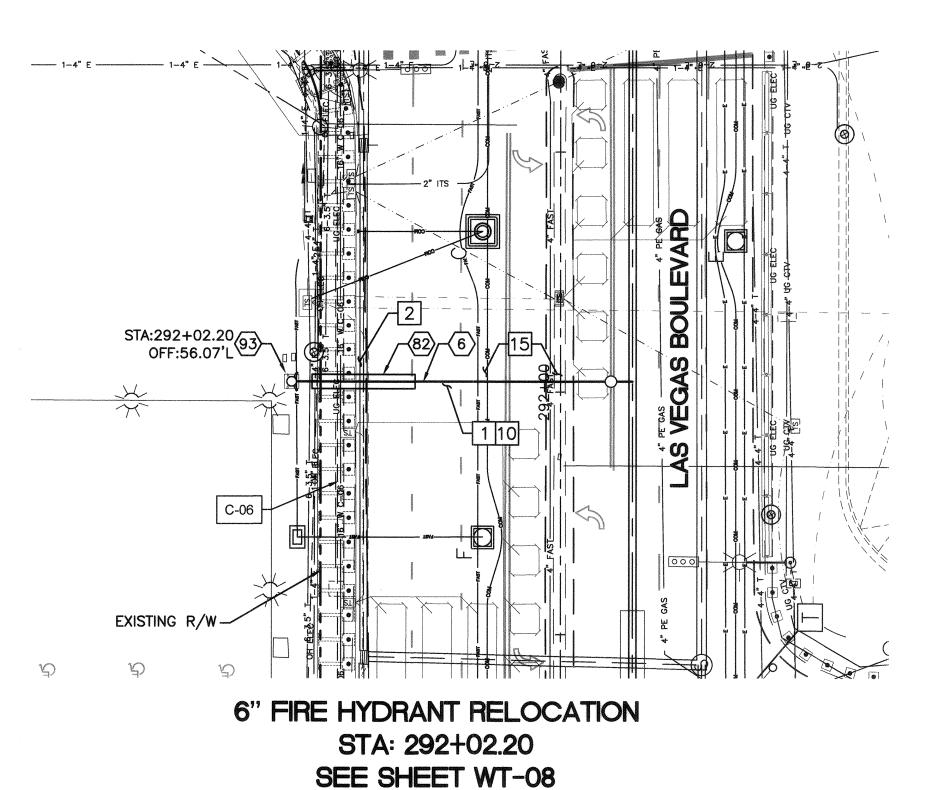


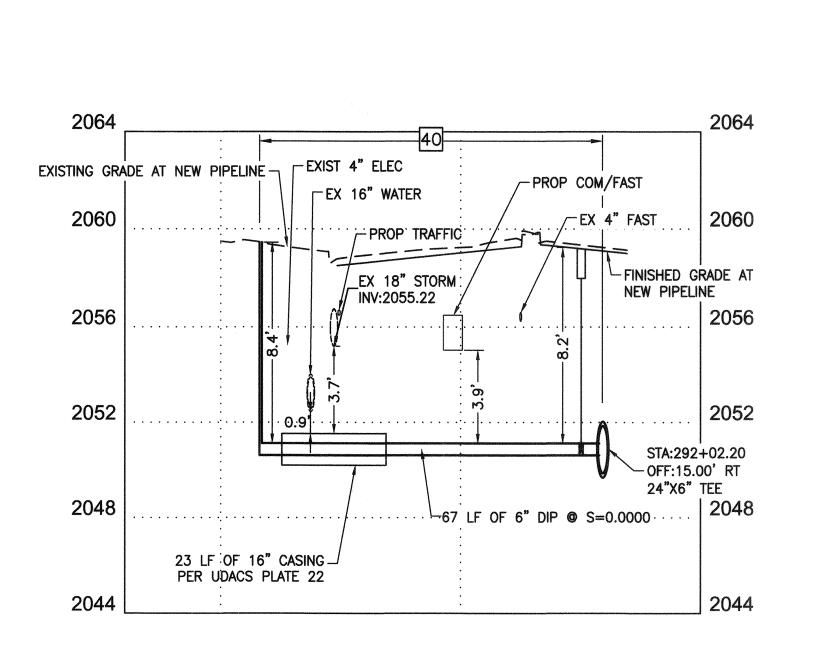


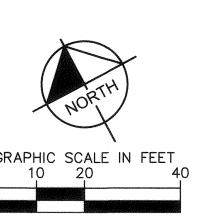


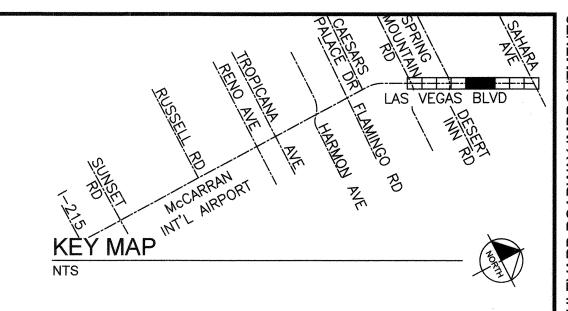












CONSTRUCTION INDEX

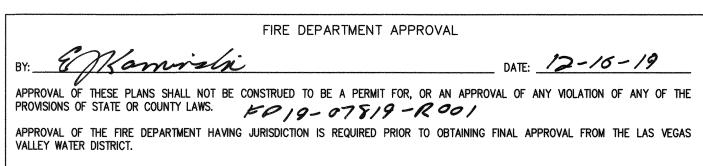
- (6) INSTALL 6" DIP, PER UDACS
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- 93 RECONNECT/RELOCATE FIRE HYDRANT PER UDACS PLT NO. 40 & 41 ON SHT WT-50

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
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- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES,

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.



LVVWD APPROVAL

APPROVED FOR CONSTRUCTION Ket dhen LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19

SAFETY ALERT Before You know what's **below**Call before you dig

CCWRD APPROVAL

Sile 11.25.19 CLARK COUNTY WATER RECLAMATION DISTRIC CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

UNION PACIFIC RAILROAD Call Before You Dig

UnderGround $1\!-\!702\!-\!432\!-\!530$ eway and arterial system of transportat

REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019

2064

2060

2056

FINISHED GRADE AT NEW PIPELINE -

STA:288+11.59

OFF:15.53' RT -

24"X6" TEE

6" 11.25" BEND

STA:288+11.59_

OFF:21.03'RT

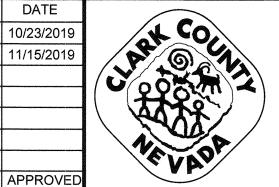
INV:2053.99

COM/ELEC

OFF:28.85'RT

INV:2055.55

─8 LF OF 6" DIP @ S=0.1989



-EXISTING GRADE AT NEW PIPELINE

2064

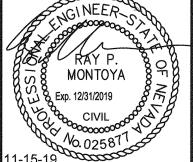
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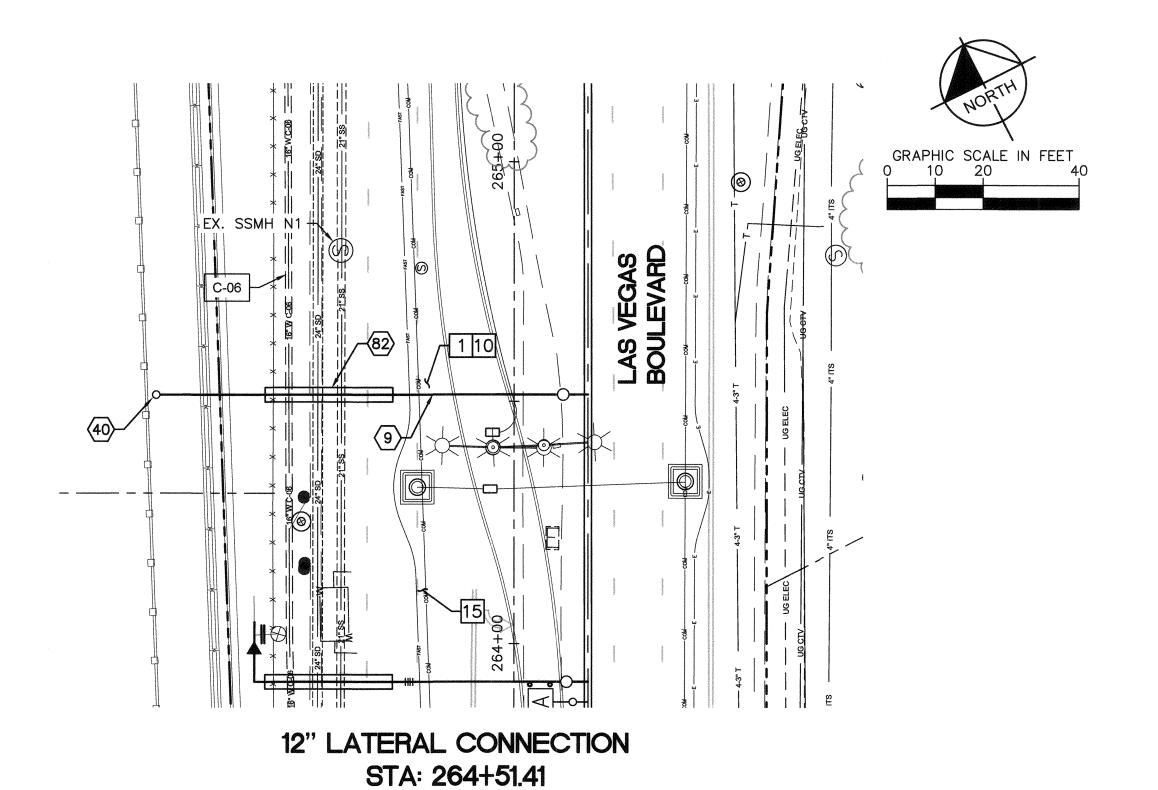
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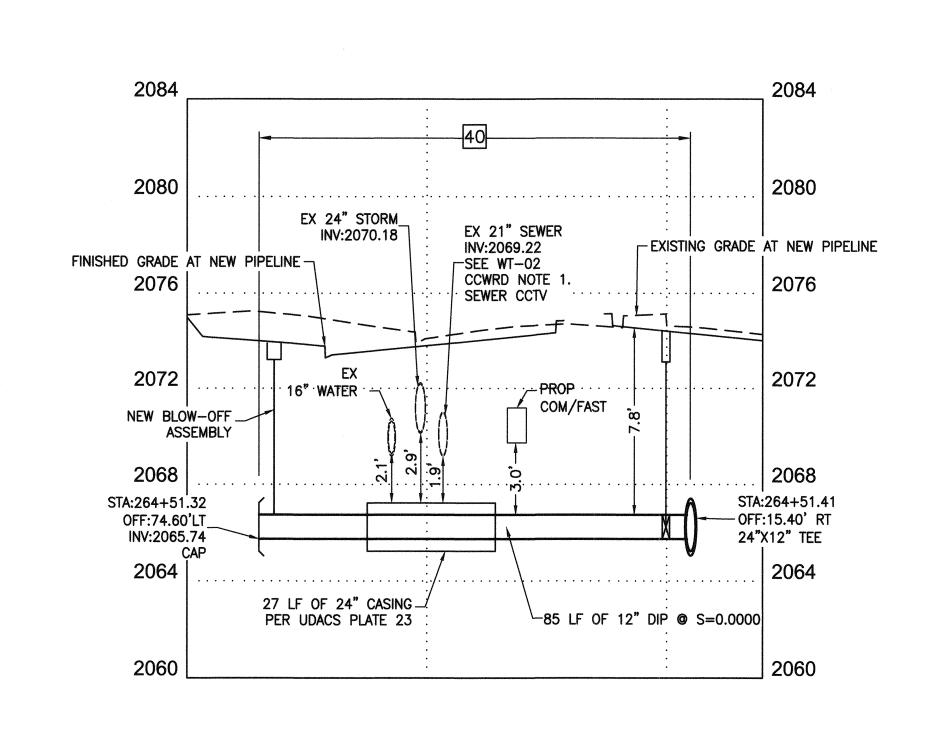
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



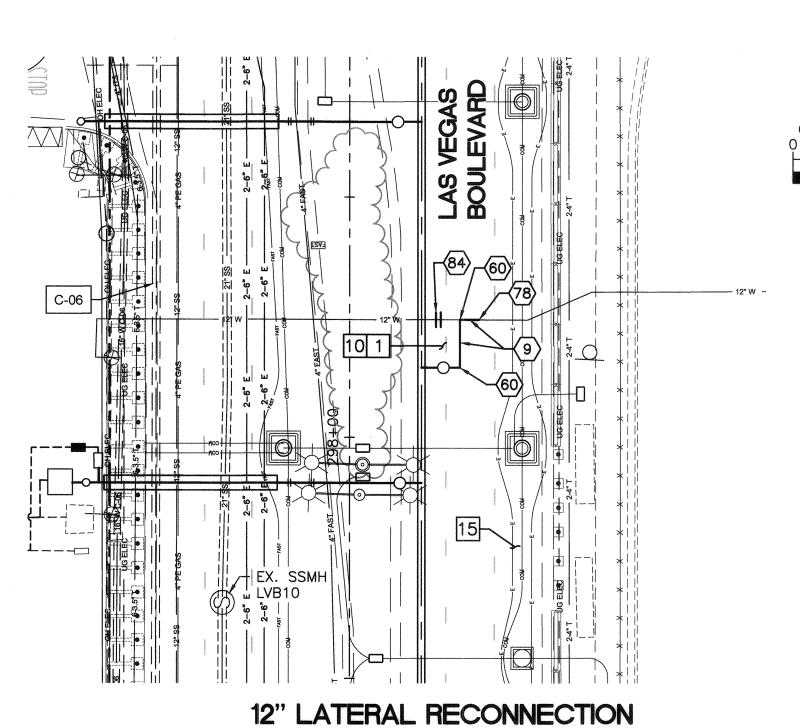
				1-800-336-	-9193 FREEWAY AND ARTERIAL SYSTEM OF
	DESIGNED BY:	ROM	SCALE		SHEET No
	DRAWN BY:	GAG/JTK/VCR/VRC			
λ_	CHECKED BY:	RPM	HORIZ:	1" = 20'	WT-30
20000	DATE:	11-15-19	VERT:	1" = 4'	
8					
7	Kım	ley» Horn	FIELD BOOK	NONE	SHEET 137 OF
					OTILLY 107 OF
		ard South, Suite 320			L-2210





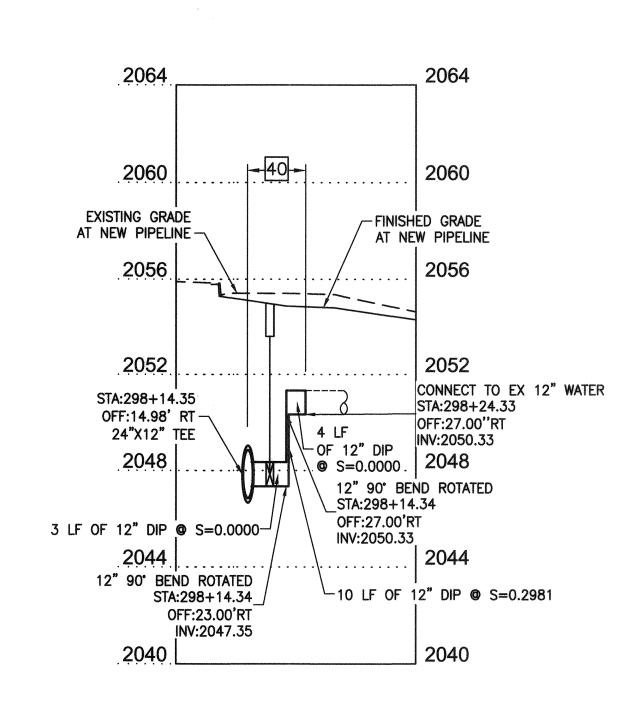
SEE SHEET WT-05

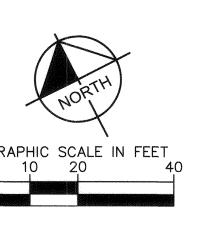
APPROVE

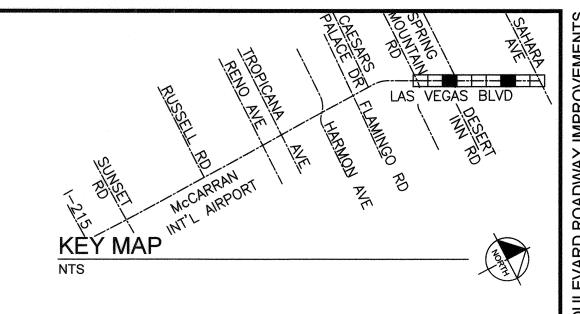


STA: 298+14.35

SEE SHEET WT-09







CONSTRUCTION INDEX

- 9 INSTALL 12" DIP, PER UDACS
- (40) INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLT NO. 36 ON SHT WT-48
- 60 INSTALL 12" × 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- (78) CONNECT TO 12" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- CUT, PLUG & CAP EXISTING MAIN PIPE PER DETAIL "O" ON SHT WT-44

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & TS SERIES, RESPECTIVELY.



NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

		FIRE DEF	PARTMENT	APPRO	VAL				
BY: ENK	amirila		and a solid management of the solid line of the	in market service and the service serv	tan ayad dilikada maranga sayay maga alikada ayan saya	_ DATE:	12-	10-1	19
APPROVAL OF THESE PI PROVISIONS OF STATE O		CONSTRUED TO				VAL OF AN	Y VIOLATION	OF ANY OF	F THE
APPROVAL OF THE FIRE VALLEY WATER DISTRICT.		JURISDICTION	S REQUIRED	PRIOR TO	OBTAINING	FINAL APPI	ROVAL FROM	THE LAS \	ÆGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE 12 16 19



Call before you dig

CCWRD APPROVAL

CLARK_GOUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19.949

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

UNION PACIFIC RAILROAD Call Before You Dig

AVOD HTING UNDERGOUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS AND STREET LIGHT SYSTEM CONDUITS CALL BEFORE YOU DO UNDERGROUND before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

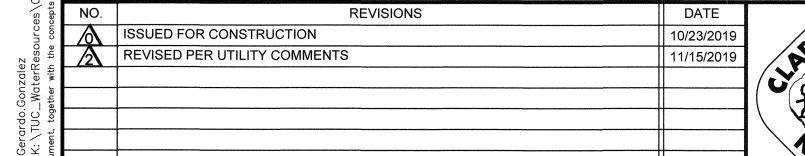
SAFETY ALERT

↑ Call ↑

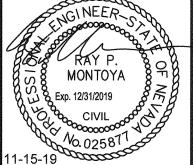
Before You

Overhead

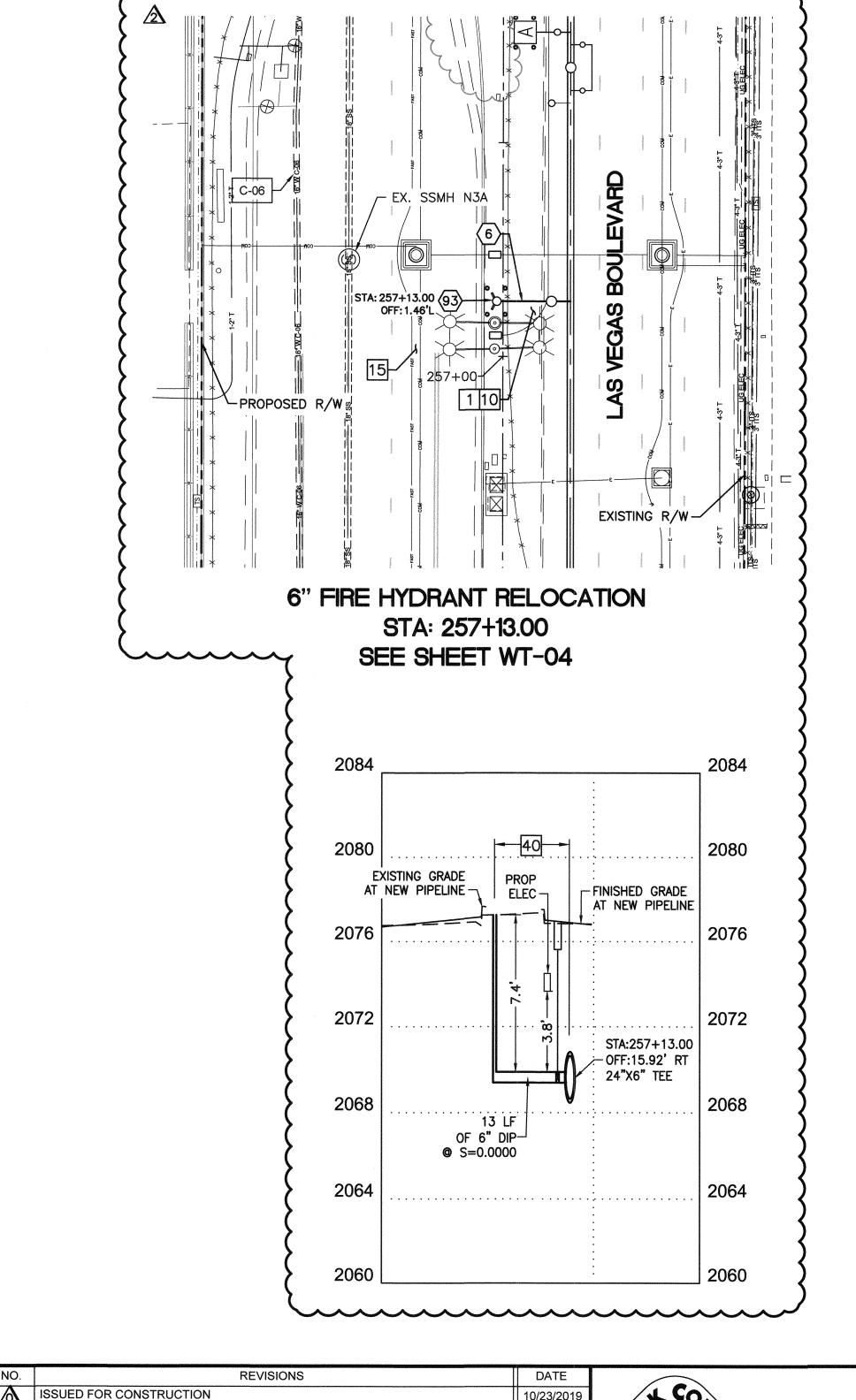
1-702-227-2929



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



en en en		ROM	20415
DESIGNED BY: _ DRAWN BY: _ CHECKED BY: _		GAG/JTK/VCR/VRC RPM	SCALE HO
3	DATE:	11-15-19	VE
9	Kim	ev» Horn	FIELD B
	6671 Las Vegas Boulevo Las Vegas, Nevada 89	ard South, Suite 320	

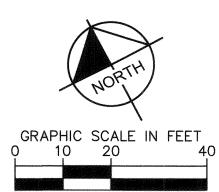


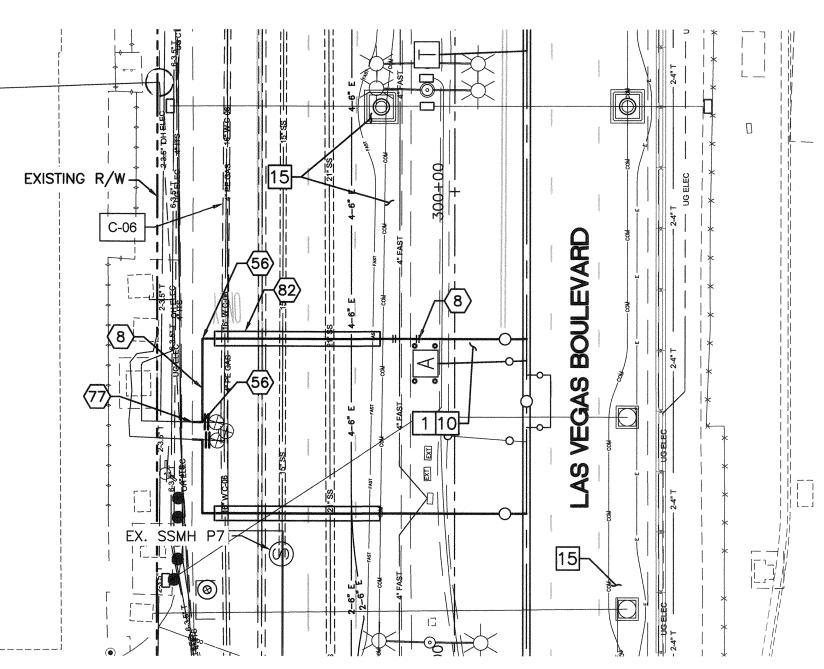
10/23/2019

11/15/2019

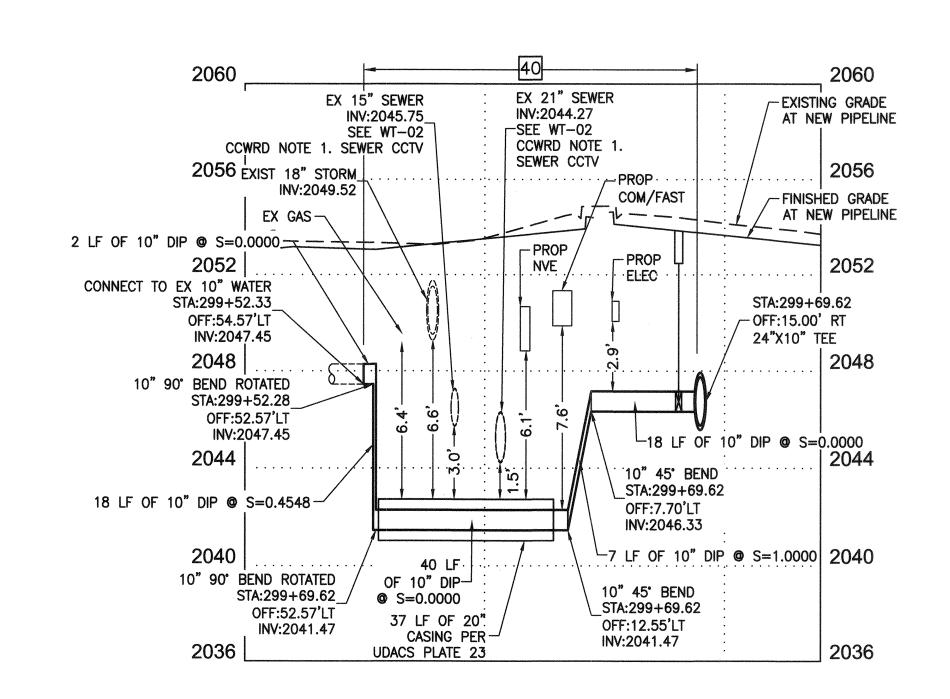
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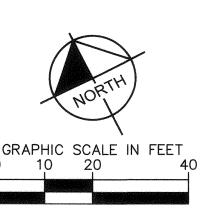
REVISED PER UTILITY COMMENTS

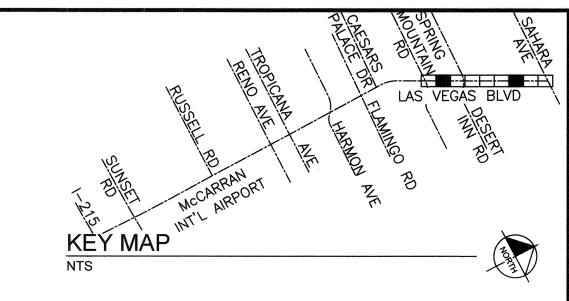




10" LATERAL RECONNECTION STA: 299+69.62 SEE SHEET WT-09







CONSTRUCTION INDEX

- 6 INSTALL 6" DIP, PER UDACS
- (8) INSTALL 10" DIP, PER UDACS
- 56 INSTALL 10" × 90° BEND W/RESTRAINED JOINT PER UDACS SEC 2.15
- CONNECT TO 10" EXIST. MAIN PIPE
- 82 INSTALL PIPE CASING PER UDACS PLT NO. 22, 23 ON SHTS WT-46 & WT-47 & UDACS SEC 2.22
- 93 RECONNECT/RELOCATE FIRE HYDRANT PER UDACS PLT NO. 40 & 41 ON SHT WT-50

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & TS SERIES. RESPECTIVELY.

40 JOINTS TO BE FULLY RESTRAINED

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL DATE: 12-16-19 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE FP19-07819-12001 PROVISIONS OF STATE OR COUNTY LAWS. APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 12

know what's below

Call before you dig

CCWRD APPROVAL

11.25.19 CLARK COUNTY WATER RECLAMATION DISTRICT CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REG

UNION PACIFIC RAILROAD Call Before You Dig



SAFETY ALERT

Before You

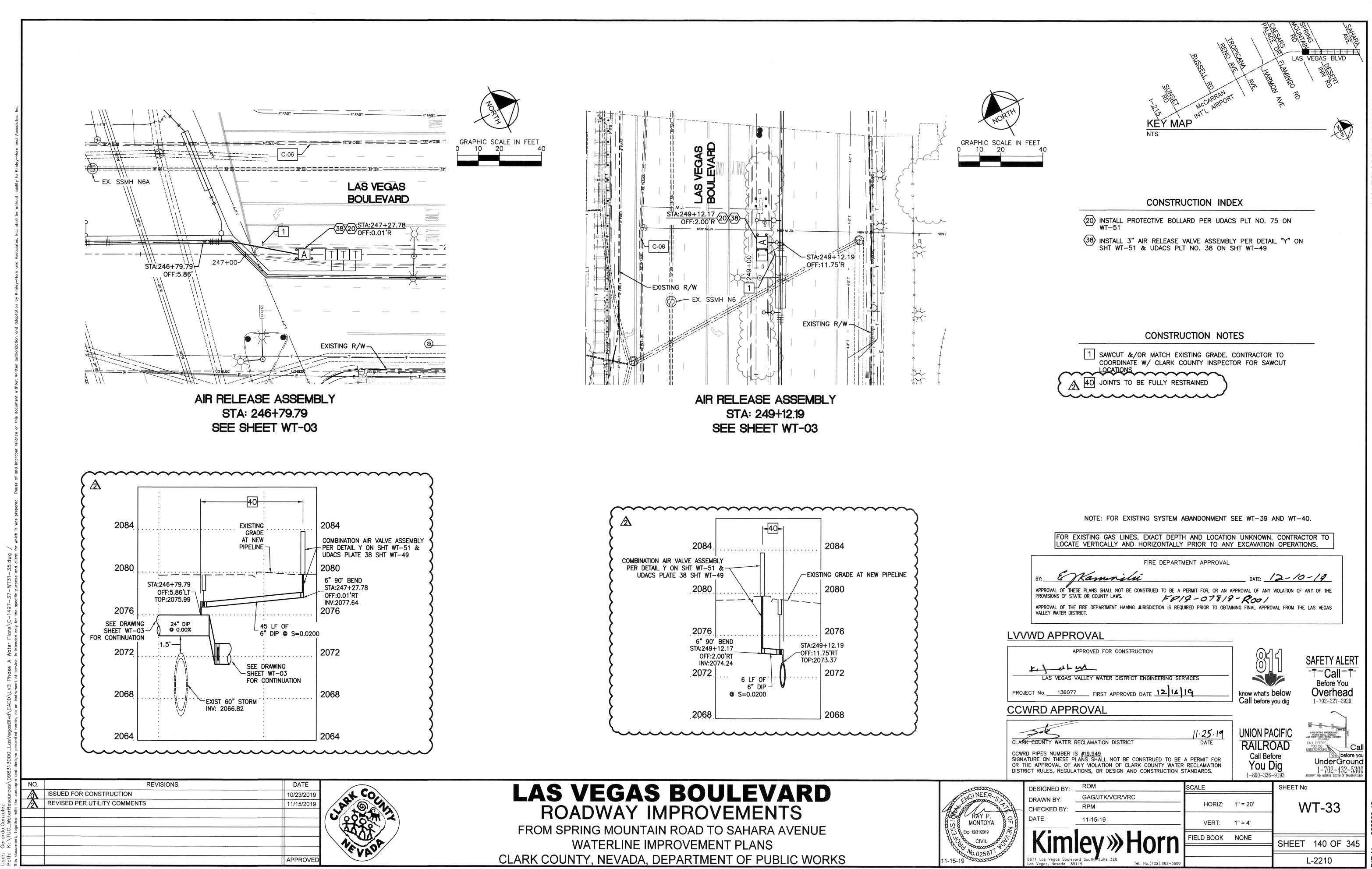
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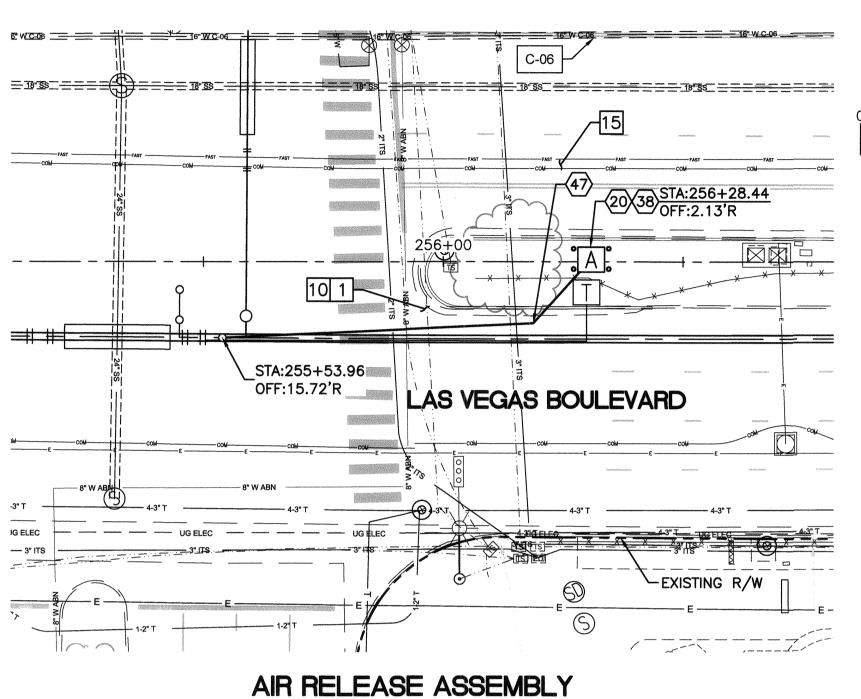
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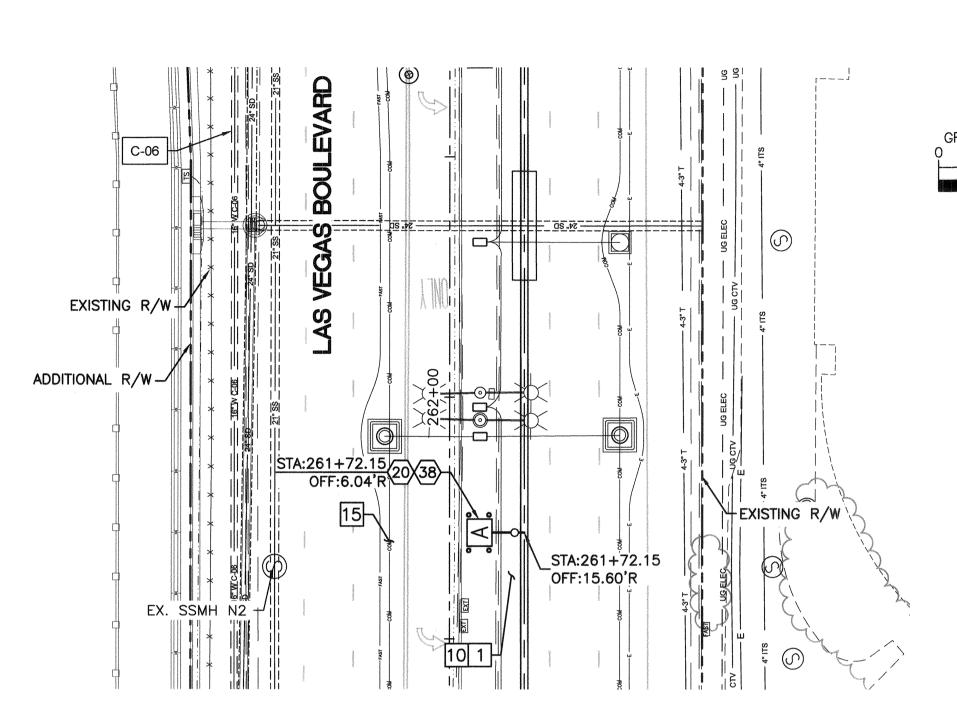
DESIGNED BY:	
DRAWN BY:	GAG/JTK/VCR/VRC
CHECKED BY:	RPM
DATE:	11-15-19
Kim 6671 Las Vegas Boulevo Las Vegas, Nevada 89	

				1-702-432-3300 -9193 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
BY:	ROM	SCALE		SHEET No
/ :	GAG/JTK/VCR/VRC			
BY:	RPM	HORIZ:	1" = 20'	WT-32
-	11-15-19	VERT:	1" = 4'	
20	OW Horn	FIELD BOOK	NONE	
	ey»Horn			SHEET 139 OF 345
	rd South, Suite 320			L-2210

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



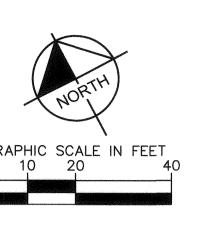


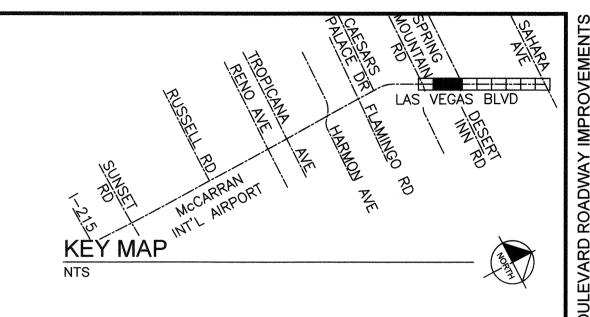


AIR RELEASE ASSEMBLY

STA: 261+72.15

SEE SHEET WT-05





CONSTRUCTION INDEX

- 20 INSTALL PROTECTIVE BOLLARD PER UDACS PLT NO. 75 ON WT-51
- 38 INSTALL 3" AIR RELEASE VALVE ASSEMBLY PER DETAIL "Y" ON SHT WT-51 & UDACS PLT NO. 38 ON SHT WT-49
- INSTALL 6" x 45" BEND W/RESTRAINED JOINT PER UDACS SEC 2.15

CONSTRUCTION NOTES

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2076

2072

2068

2064

6" 90° BEND

STA:256+28.44

OFF:2.13'RT

INV:2073.64

14 LF OF

© S=0.0200

STA: 255+53.96 SEE SHEET WT-04

COMBINATION AIR VALVE ASSEMBLY

EXISTING GRADE AT NEW PIPELINE -

PROPOSED GRADE AT NEW PIPELINE --

ABN 8" WATER -

PER DETAIL Y ON SHT WT-51 &-UDACS PLATE 38 SHT WT-49

TRAFFIC

6" 45° BEND

STA:256+18.78

OFF:12.72'RT

65 LF OF

APPROVE

© S=0.0200

└6" DIP

INV:2073.37

TRAFFIC

-PROPOSED GRADE AT NEW PIPELINE COMBINATION AIR VALVE ASSEMBLY PER DETAIL Y ON SHT WT-51 &-- EXISTING GRADE AT NEW PIPELINE UDACS PLATE 38 SHT WT-49 EXIST TRAFFIC -2072 2072 STA:261+72.15 6" 90' BEND __OFF:15.60'RT STA:261+72.15 TOP:2069.65 OFF:6.05'RT INV:2070.60 2068 6 LF OF 6" DIP-⑤ S=0.0200

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL & Kamili DATE: 12-10-19 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS. FP19-07819-12001 APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION Kit ah on LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19 **CCWRD APPROVAL**

know what's below

+ Call + Call before you dig

Overhead 1-702-227-2929

L-2210

SAFETY ALERT

Before You

UNION PACIFIC Call Before You Dig

UnderGround $\begin{array}{c} 1 - 702 - 432 - 530 \\ \text{freeway and arterial system of transportat} \end{array}$

CLARK COUNTY WATER RECLAMATION DISTRICT CCWRD PIPES NUMBER IS #19.949
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RAILROAD 1-800-336-9193

RAY P. MONTOY Exp. 12/31/2019 No. 0258 1-15-19

900	DESIGNED BY: .	ROM	S0	CALE	
	DRAWN BY: .	GAG/JTK/VCR/VRC RPM		HORIZ:	1" = 20'
3	DATE:	11-15-19	nganagan managan	VERT:	1" = 4'
1	Kim	lev» Horr	n F	IELD BOOK	NONE
zoved	6671 Las Vegas Boulevo Las Vegas, Nevada 89		600		

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	DESIGNED BY:	IVOIVI	201
	DRAWN BY:	GAG/JTK/VCR/VRC	
	CHECKED BY:	RPM	
	DATE:	11-15-19	
3	Kim	lev»Horn	FIE
	6671 Las Vegas Boulev Las Vegas, Nevada 89	ard South, Suite 320 1119 Tel. No.(702) 862-3600	

NO.	REVISIONS	DATE	ĺ
\triangle	ISSUED FOR CONSTRUCTION	10/23/2019	/
2	REVISED PER UTILITY COMMENTS	11/15/2019	6
			/ K
		1	

2076

2072

OFF:15.72'RT-

TOP:2071.38

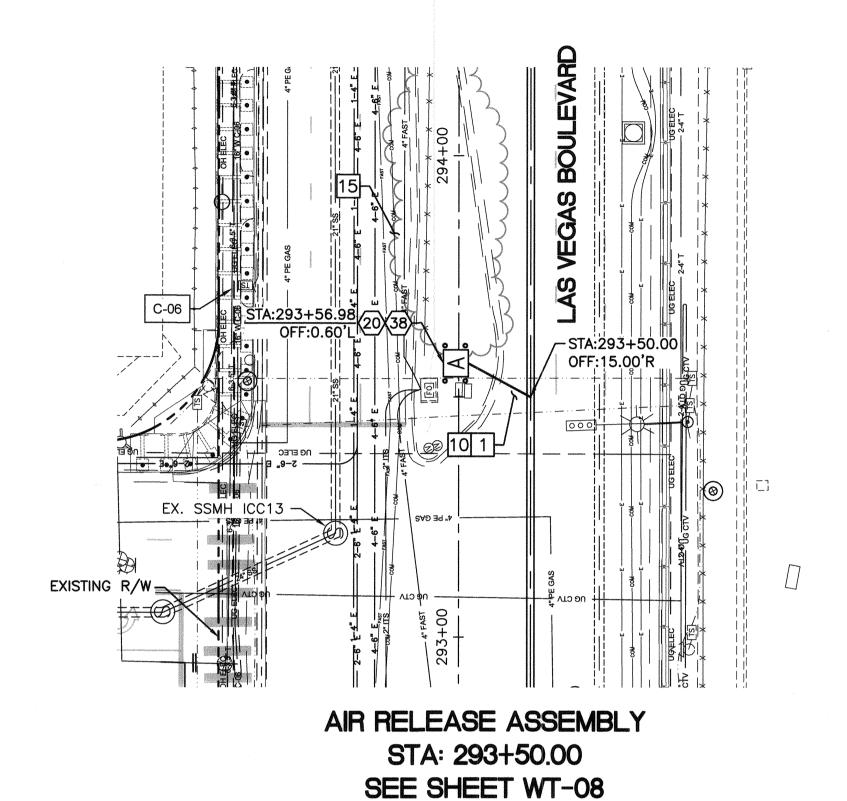
2068

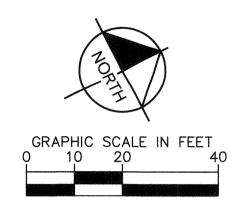
NEW 12" DIP WATER-

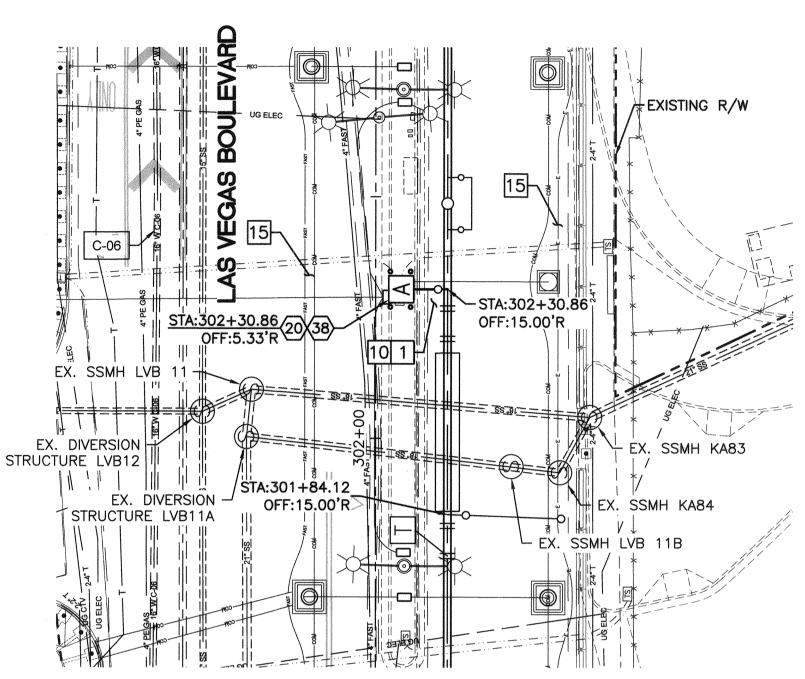
STA:255+53.96

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

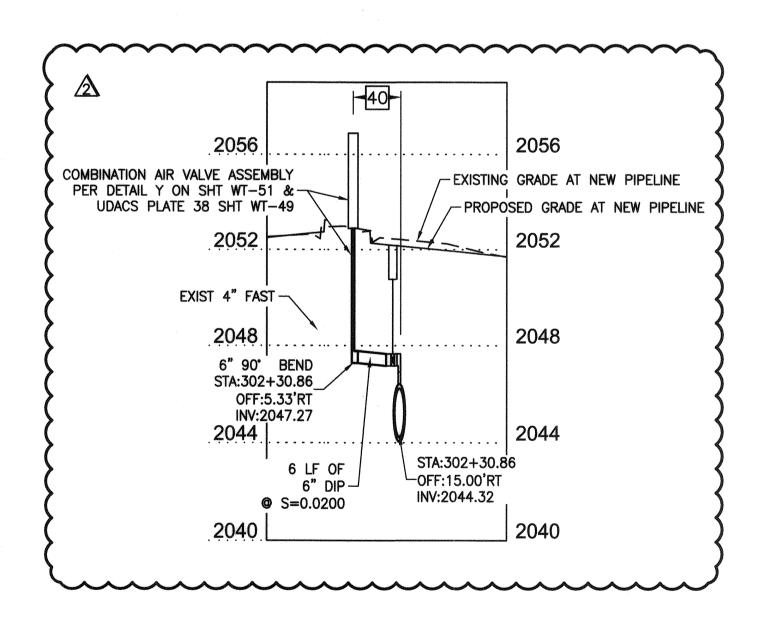
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE WATERLINE IMPROVEMENT PLANS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS SHEET No

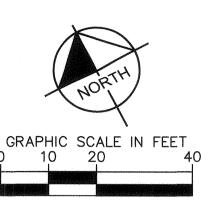


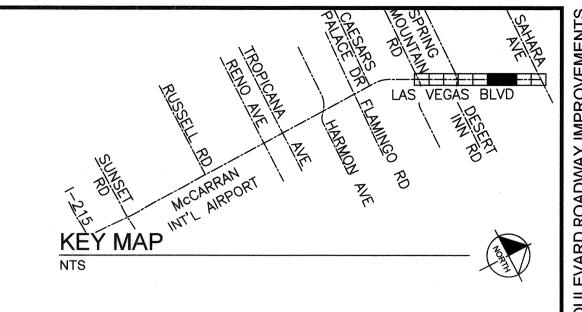




AIR VALVE ASSEMBLY STA: 302+30.86 SEE SHEET WT-09







CONSTRUCTION INDEX

- 20 INSTALL PROTECTIVE BOLLARD PER UDACS PLT NO. 75 ON WT-51
- 38 INSTALL 3" AIR RELEASE VALVE ASSEMBLY PER DETAIL "Y" ON SHT WT-51 & UDACS PLT NO. 38 ON SHT WT-49

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES, & TS SERIES RESPECTIVELY

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

FIRE DEPARTMENT APPROVAL DATE: 12-10-19 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS. FP19 -07819-12001 APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION K. Jalan LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12/16/19



Call before you dig

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT 11.25.19 CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. **UNION PACIFIC** RAILROAD Call Before You Dig

before yo UnderGround 1-702-432-530

SAFETY ALERT

+ Call +

Before You

Overhead

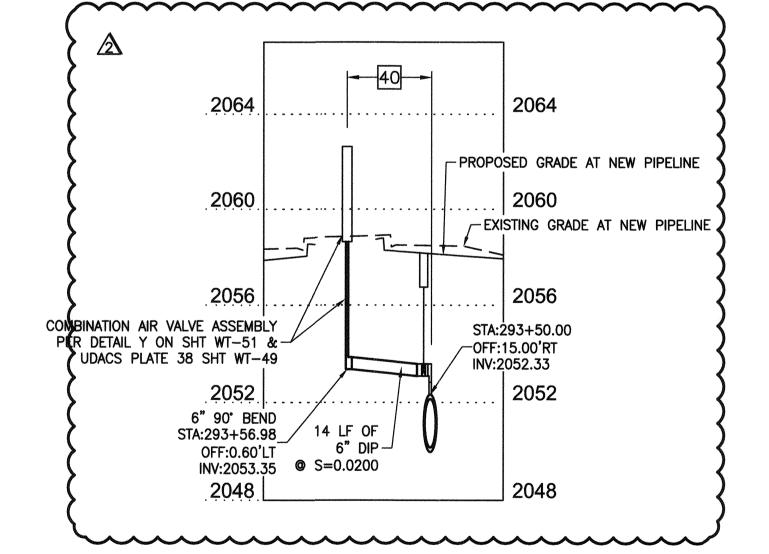
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	CHECKED BY:	RPM
	DATE:	11-15-19
7	Kim 6671 Las Vegas Boulevo Las Vegas, Nevada 89	ley Horn and South, Suite 320 Tel. No.(702) 862–3600

		1-000-330-	-9193 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION			
	SCALE		SHEET No			
	HORIZ:	1" = 20'	WT-35			
	VERT:	1" = 4'				
orn	FIELD BOOK	NONE	SHEET 142 OF 345			
(702) 862–3600			L-2210			
	LOCUED FOR CONCERNATION					

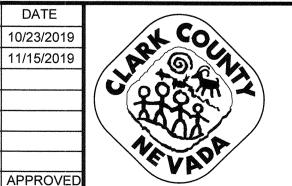


REVISIONS

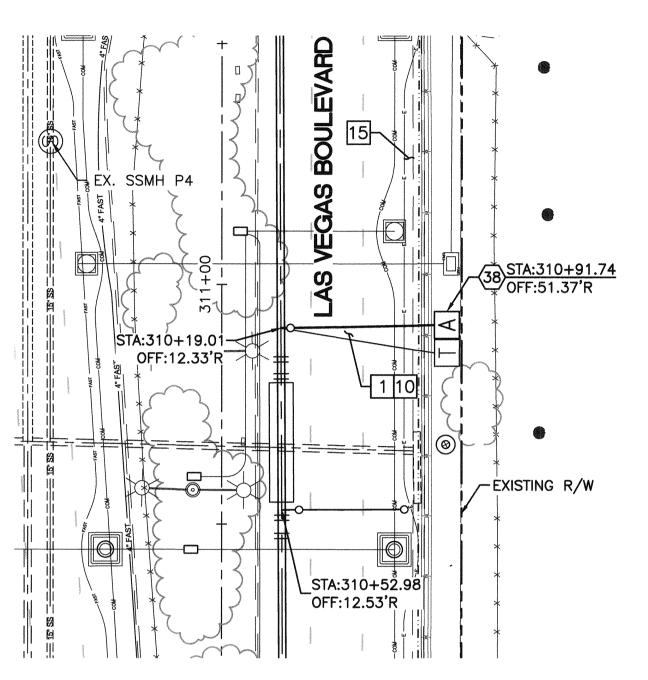
ISSUED FOR CONSTRUCTION

REVISED PER UTILITY COMMENTS

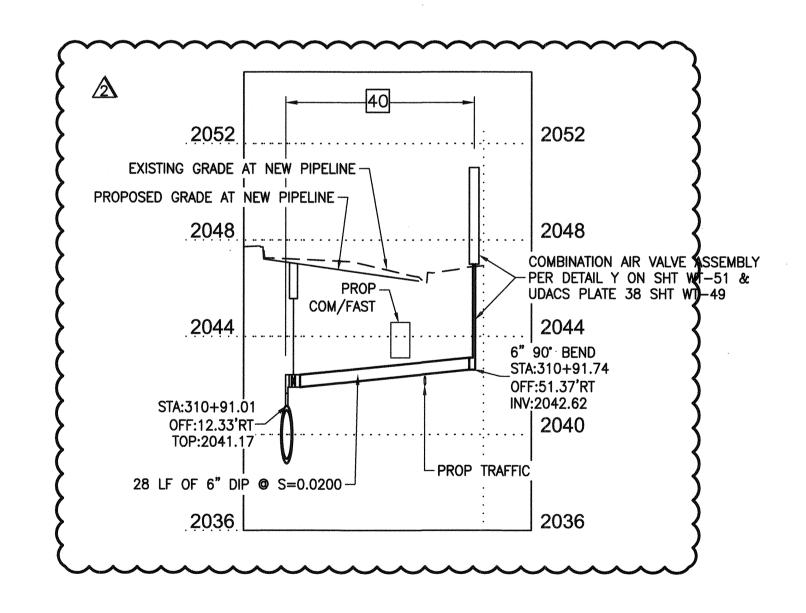


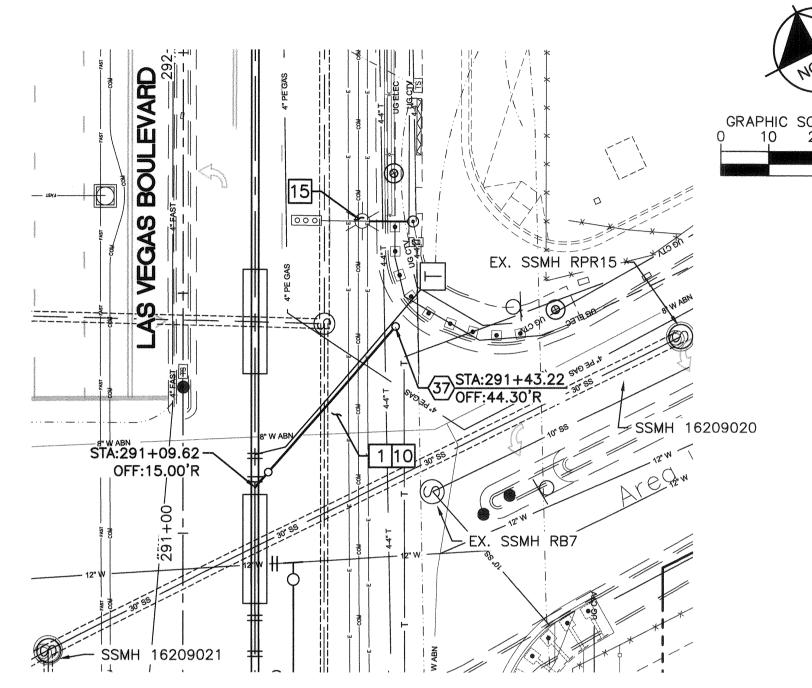


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

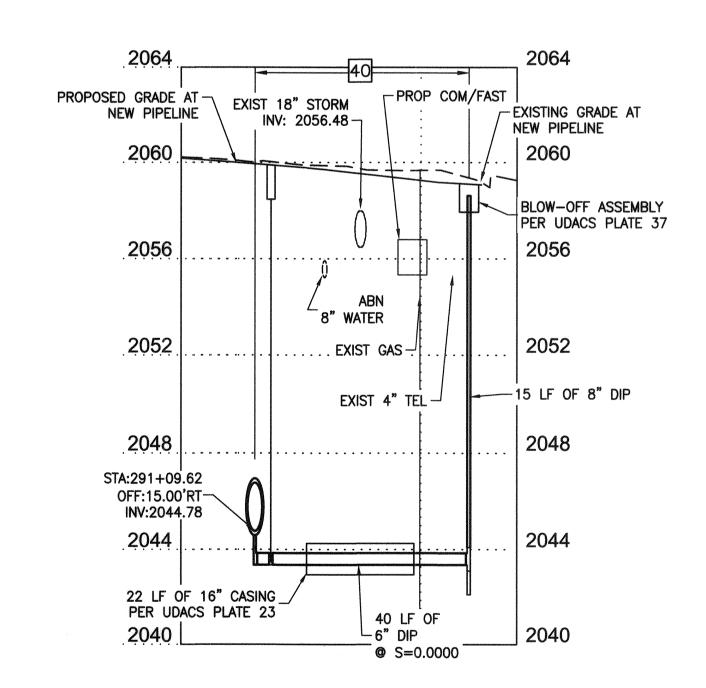


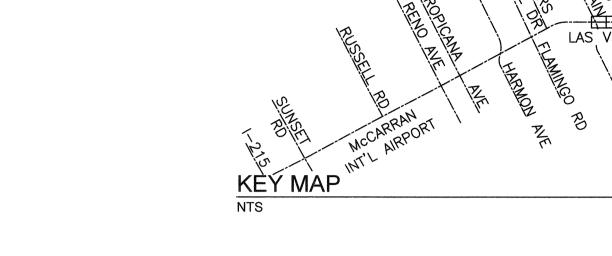
AIR VALVE ASSEMBLY STA: 310+91.01 SEE SHEET WT-10





BLOW-OFF ASSEMBLY STA: 291+09.62 SEE SHEET WT-08





CONSTRUCTION INDEX

- 37) INSTALL 6" BLOW-OFF ASSEMBLY PER UDACS PLT NO. 37 ON SHT WT-48
- 38 INSTALL 3" AIR RELEASE VALVE ASSEMBLY PER DETAIL "Y" ON SHT WT-51 & UDACS PLT NO. 38 ON SHT WT-49

CONSTRUCTION NOTES

- 1 SAWCUT &/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 10 ALL TRENCH BACKFILL PER DETAIL UDACS PLT NO. 17
- PROPOSED CONSTRUCTION, UNDERGROUND FIBER CONDUIT, ELECTRIC CONDUIT, STORM DRAIN STRUCTURE, & TRAFFIC SIGNAL EQUIPMENT, SEE C SERIES, COM SERIES, EL SERIES, SD SERIES,

NOTE: FOR EXISTING SYSTEM ABANDONMENT SEE WT-39 AND WT-40.

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19

know what's **below**Call before you dig

CCWRD APPROVAL

MONTOYA

Exp. 12/31/2019

CCWRD PIPES NUMBER IS #19.949
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UNION PACIFIC RAILROAD Call Before

UnderGround 1-702-432-530

SAFETY ALERT

Before You

Overhead

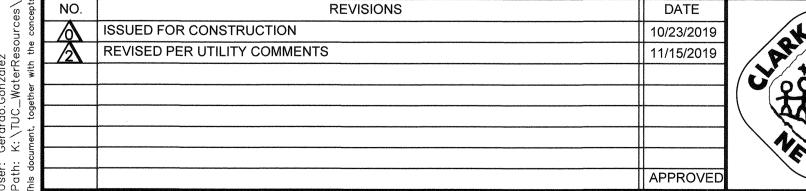
1-702-227-2929

You Dig SHEET No HORIZ: 1'' = 20'WT-36

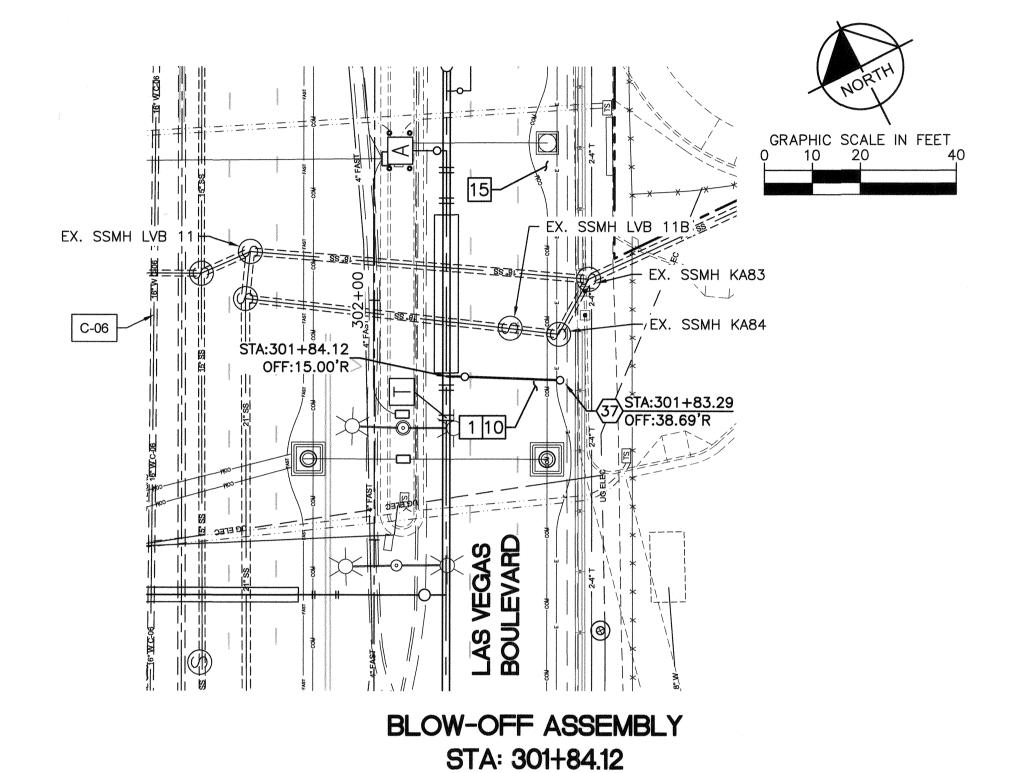
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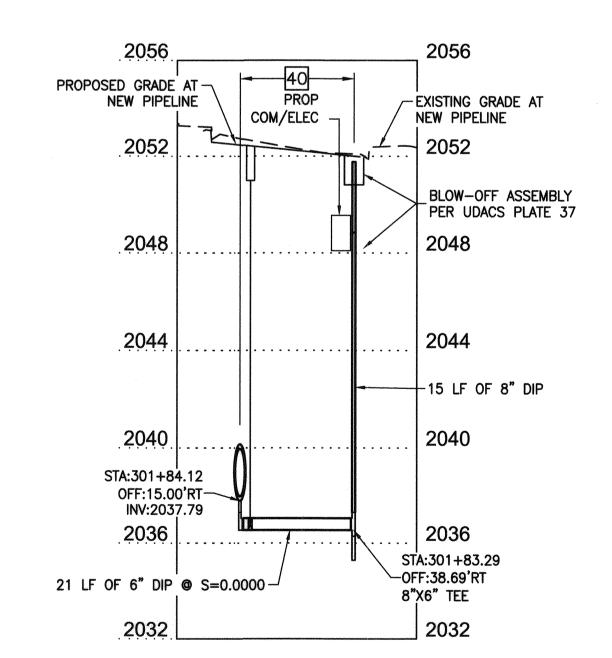
DESIGNED BY: GAG/JTK/VCR/VRC DRAWN BY

FIELD BOOK NONE SHEET 143 OF 345 L-2210

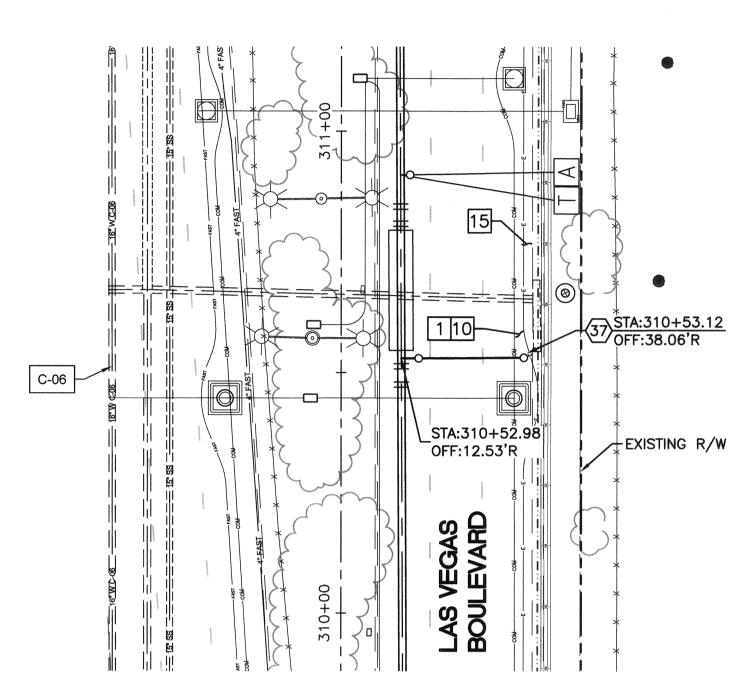


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

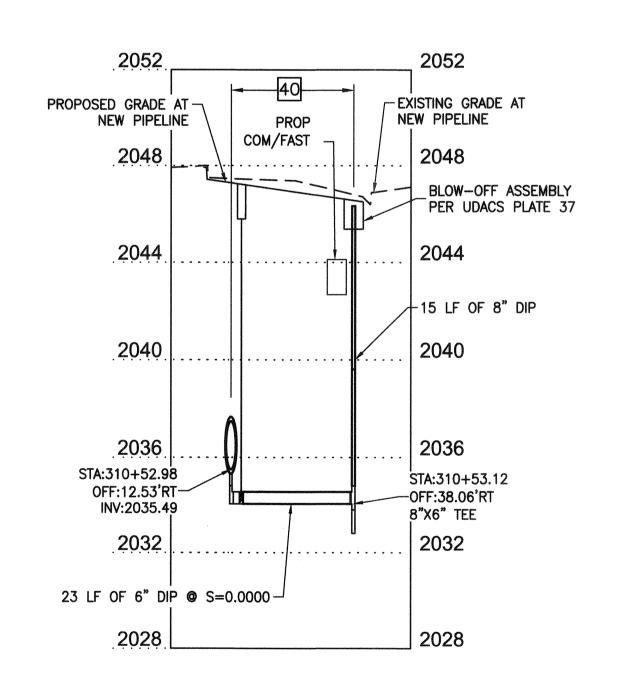


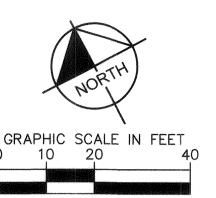


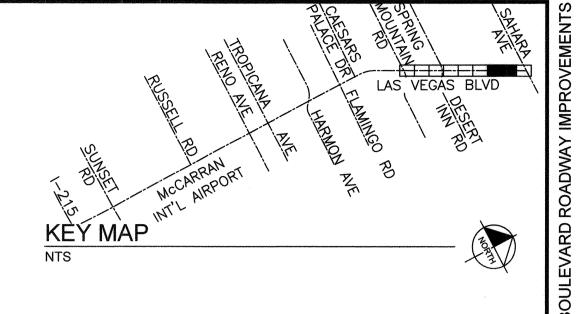
SEE SHEET WT-09



BLOW-OFF ASSEMBLY STA: 310+52.98 SEE SHEET WT-10







CONSTRUCTION INDEX

37 INSTALL 6" BLOW-OFF ASSEMBLY PER UDACS PLT NO. 37 ON SHT WT-48

CONSTRUCTION NOTES

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION k-falal LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 12 16 19



SAFETY ALERT Before You 1-702-227-2929

CCWRD APPROVAL

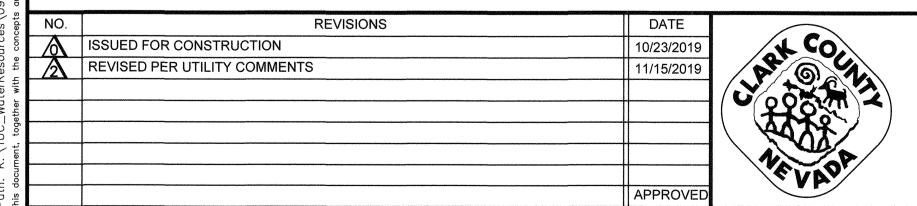
11.25.19 CCWRD PIPES NUMBER IS #19.949
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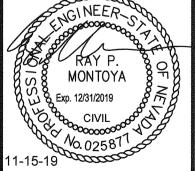


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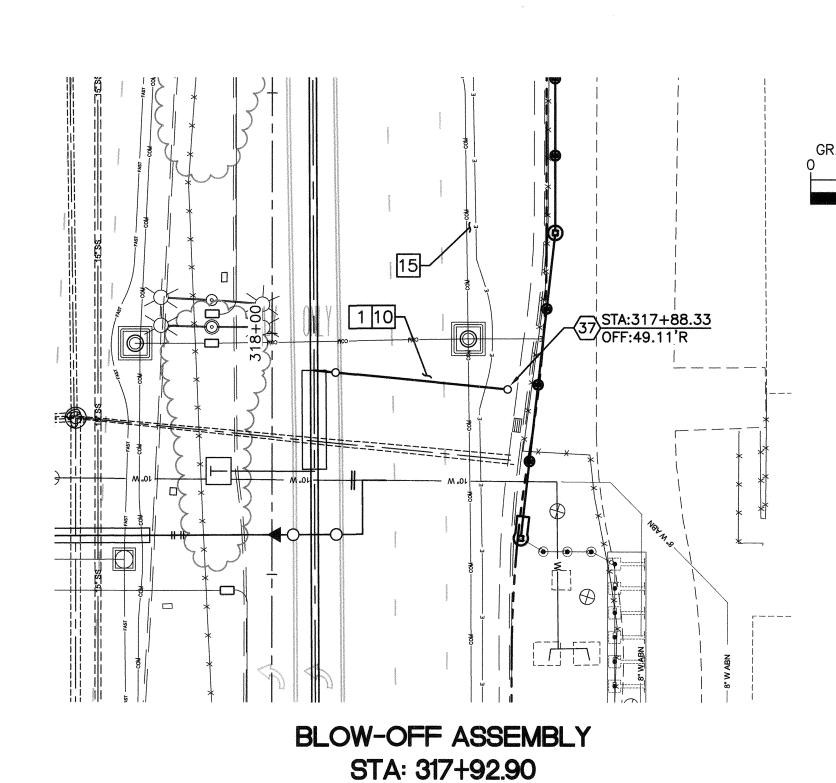
1-702-432-530 freeway and arterial system of transportat WT-37

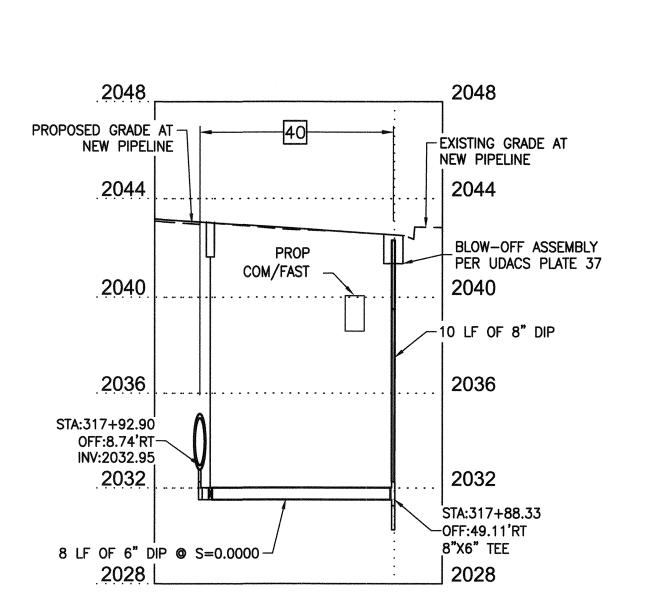


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

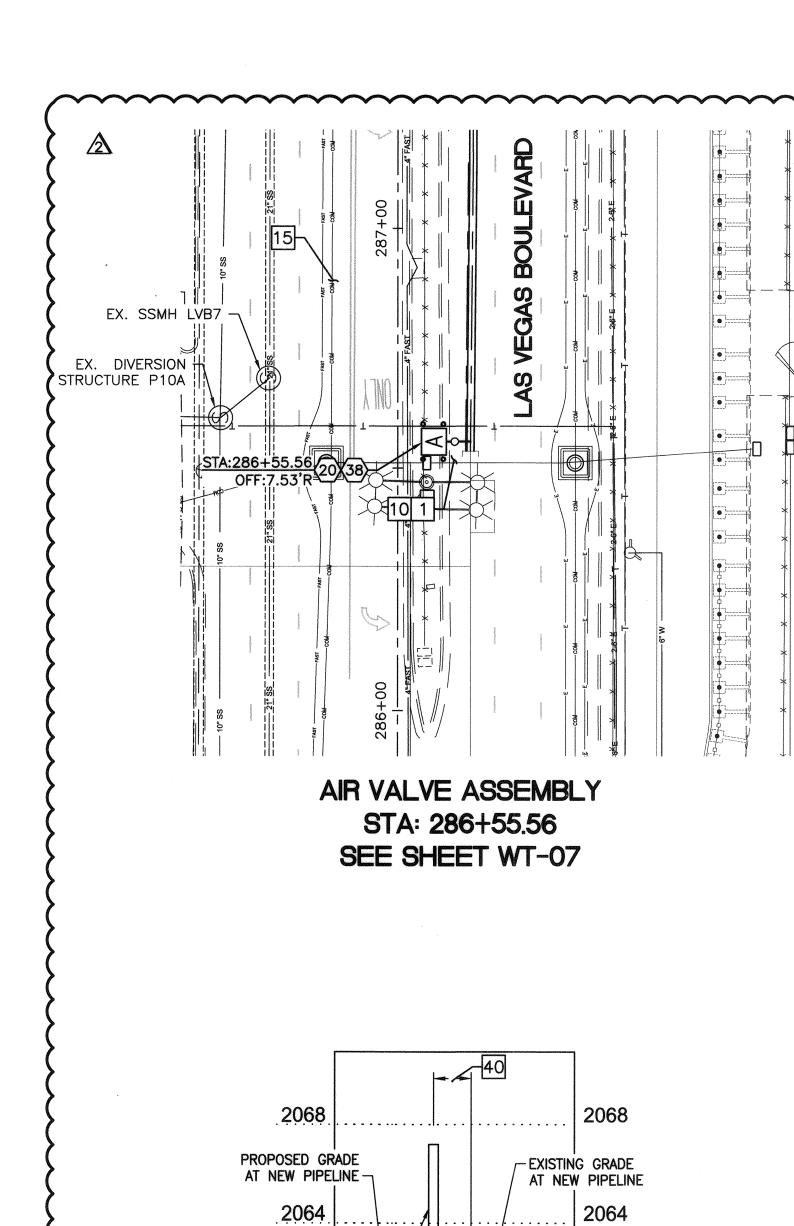


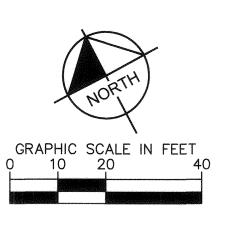
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	6671 Las Vegas Boulev Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862-3600			L-2210

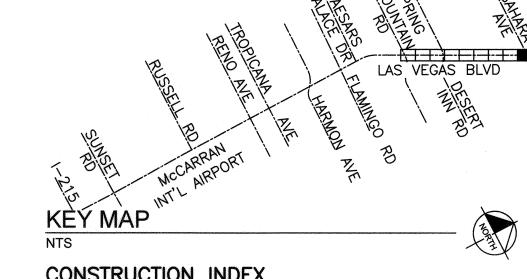




SEE SHEET WT-11







CONSTRUCTION NOTES

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION K- dhus LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT No. 136077 FIRST APPROVED DATE 1216 19



SAFETY ALERT Before You know what's below Call before you dig 1-702-227-2929

CCWRD APPROVAL

UNION PACIFIC Call Before

CALL BEFORE
YOU DO
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11.25.19 CCWRD PIPES NUMBER IS #19.949
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RAILROAD You Dig

1 - 702 - 432 - 530 freeway and arterial system of transportat **NT-38**

145 OF 345

REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019 **APPROVEI**

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

2060

2056

6" 90° BEND

STA:286+55.56

OFF:7.53'RT

INV:2056.91

COMBINATION AIR VALVE ASSEMBLY

PER DETAIL Y ON SHT WT-51 &-UDACS PLATE 38 SHT WT-49

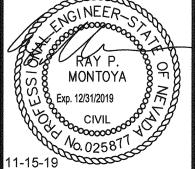
STA:286+55.56

/-OFF:15.11'RT

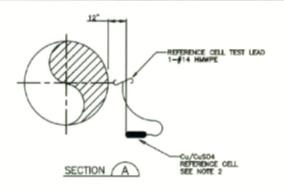
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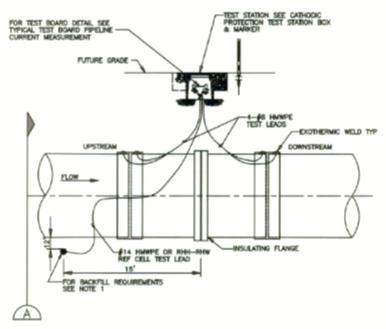
5 LF OF 6" DIP

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				1-800-336-	-9193 FREEWAY AND ARTERIAL SYSTEM
	DESIGNED BY:	ROM	SCALE		SHEET No
Ø.	DRAWN BY:	GAG/JTK/VCR/VRC	HORIZ:	1" = 20'	WT-38
250	CHECKED BY: _ DATE: -	11-15-19	VERT:	1" = 4'	VV 1-30
78					
NT O	Kimi	ev»Horn	FIELD BOOK	NONE	SHEET 145 OF
	6671 Las Vegas Bouleva Las Vegas, Nevada 891	rd South, Suite 320			L-2210





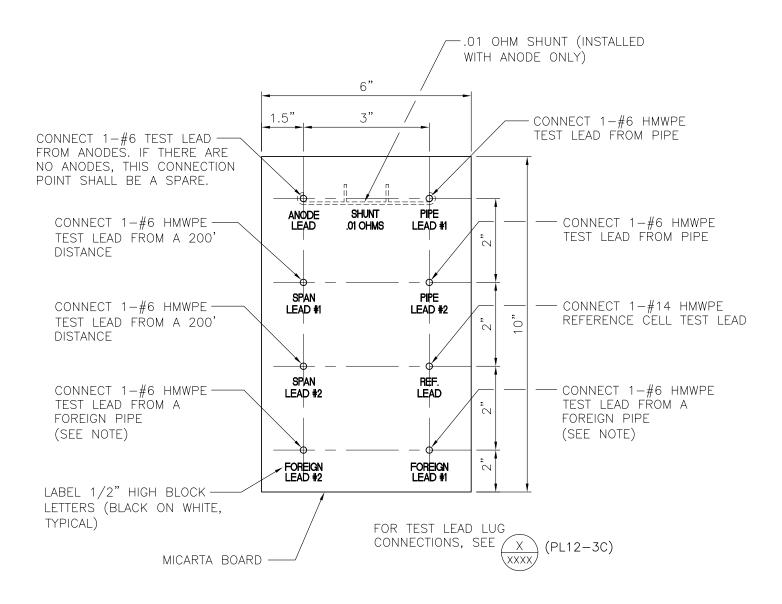
NOTES:

- USE ONLY NATIVE SOIL FREE OF ROCKS AND CLODS FOR BACKFILL AROUND REFERENCE CELLS. DO NOT USE CLSM OR SAND AS BACKFILL.
- REFERENCE CELL: PERMANENT COPPER/COPPER SULFATE ELECTRODE. MANUFACTURER AND MODEL: MCMILLER ACCUREF 20 OR EQUAL.
- 3. ADDITIONAL NOTES LOCATED ON CATHODIC PROTECTION GENERAL NOTES.

TEST STATION TYPE "I" INSULATING FLANGE SCALE: N.T.S.

RFI 025



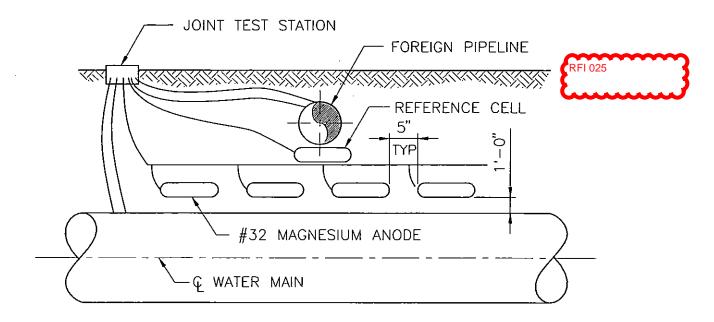


NOTE:
IF NO FOREIGN PIPES ARE IDENTIFIED TO BE
CONNECTED, CHANGE "FOREIGN LEAD" LABEL TO "SPARE"

TEST BOARD FOR JOINT TEST STATION

NOT TO SCALE

PL12-3B 020719



ATTACH ANODE LEAD WIRE TO COLLECTOR CABLE WITH THOMAS ASN BETTS "C" CRIMP OR EQUAL. SEAL SPLICES WITH AQUARIAL AND ELECTRICAL TAPE OR EQUAL. LEAVE SUFFICIENT SLACK IN CABLE FOR TERMINATION AND TO RELIEVE STRESS ON WIRE DURING BACKFILL

SATURATE EACH ANODE WITH MINIMUM 5 GAL WATER BEFORE BACKFILLING

JOINT TEST STATION: CONTRACTOR SHALL INSTALL TYPICAL STATION AS SHOWN TWO WEEKS PRIOR TO INSTALLATION OF THE JOINT TEST STATION. CONTACT: SOUTHWEST GAS (702)565-2765. CAL/NEV PIPELINE CO (714) 888-7771. SOUTHWEST GAS - CAL/NEV WILL MAKE A CONNECTION BETWEEN THEIR FACILITIES AND THE TEST BOARD. PLACE REFERENCE CELL BETWEEN WATER PIPE AND GAS/PETROLEUM MAIN

APPROXIMATE PIPELINE STATIONING FOR JOINT TEST STATIONS WITH ANODE						
STATION	FOREIGN PIPE	ADDITIONAL WIRE				
		<u></u>				
	<u> </u>					
-						
		<u>.</u> .				
	FOR JOINT TEST STAT	FOR JOINT TEST STATIONS WITH ANOT				

JOINT	TEST	STATION	WITH	ANODES
FOR S	TRAY	CURRENT	MITIC	ATION

NOT TO SCALE

PL12-4

070703



GENERAL NOTES

PL12-10 100808

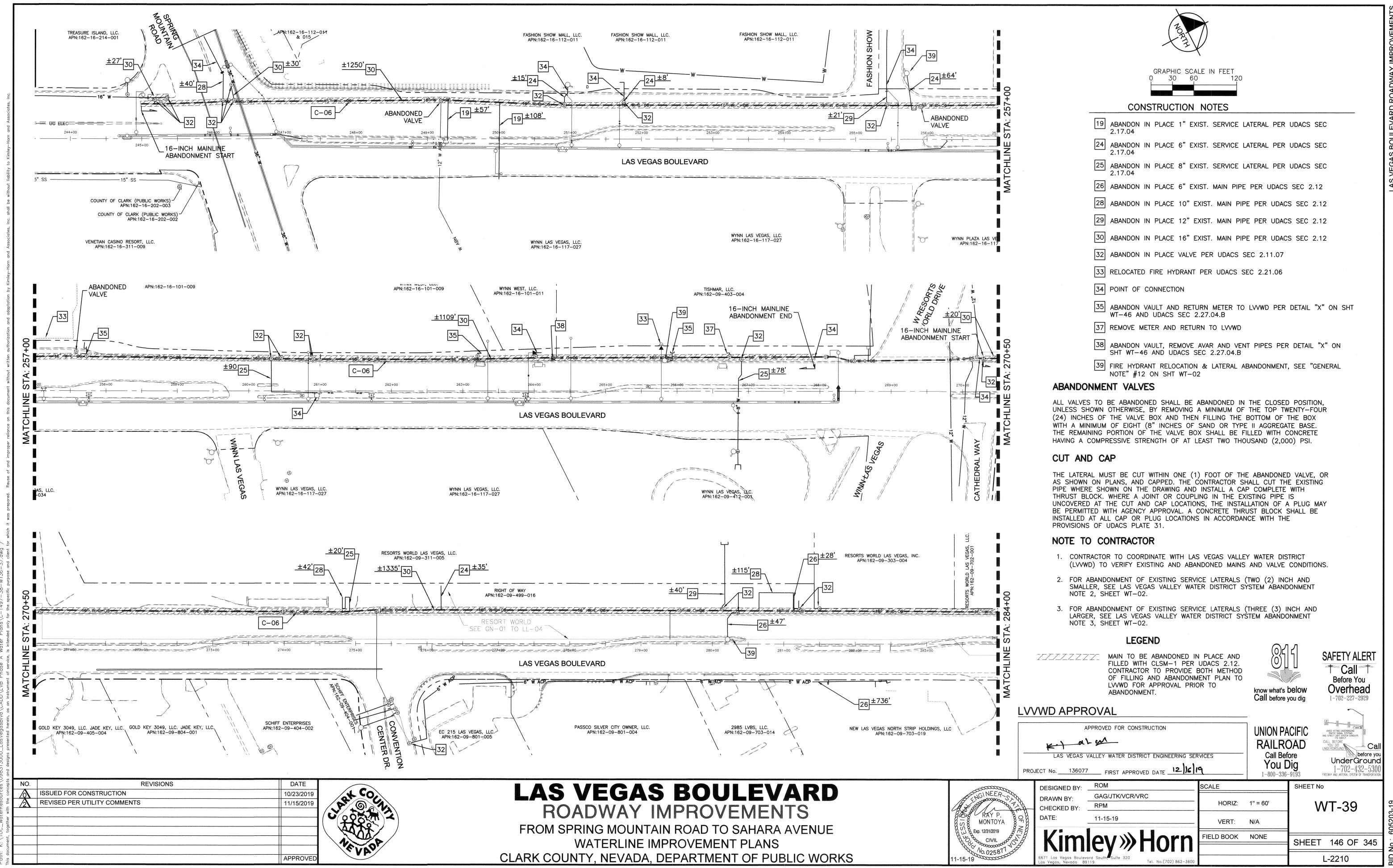
- 1. ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO THE STEEL CYLINDER OF THE PIPE BY MEANS OF A "CADWELD" EXOTHERMIC WELD.
- 2. ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO EITHER THE PIPELINE'S BELL END, SPIGOT END OR PLAIN END AS SHOWN ON THE DRAWING.
- 3. ALL EXPOSED PORTIONS OF THE EXOTHERMIC WELD AND COPPER CABLE CONDUCTORS SHALL BE COATED WITH MULTI-USE EPOXY PRIOR TO PLACING GROUT AROUND THE PIPELINE JOINT.
- 4. ALL TEST LEADS AND ANODE LEADS SHALL BE RUN WITHOUT SPLICES FROM THE CONNECTION AT THE PIPE TO THE CONNECTION AT THE TEST STATION BOX.
- 5. ALL TEST LEADS AND ANODE TEST LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON CABLE TIES. ALL TEST STATION LEADS SHALL BE PROVIDED WITH SUFFICIENT SLACK SO THAT THE TEST BOARD MAY BE EXTENDED A MINIMUM OF 4 FEET ABOVE THE TEST BOX.
- 6. ALL TEST LEADS AND ANODE LEADS (WIRE INSULATION) ARE COLOR CODED AS FOLLOWS:

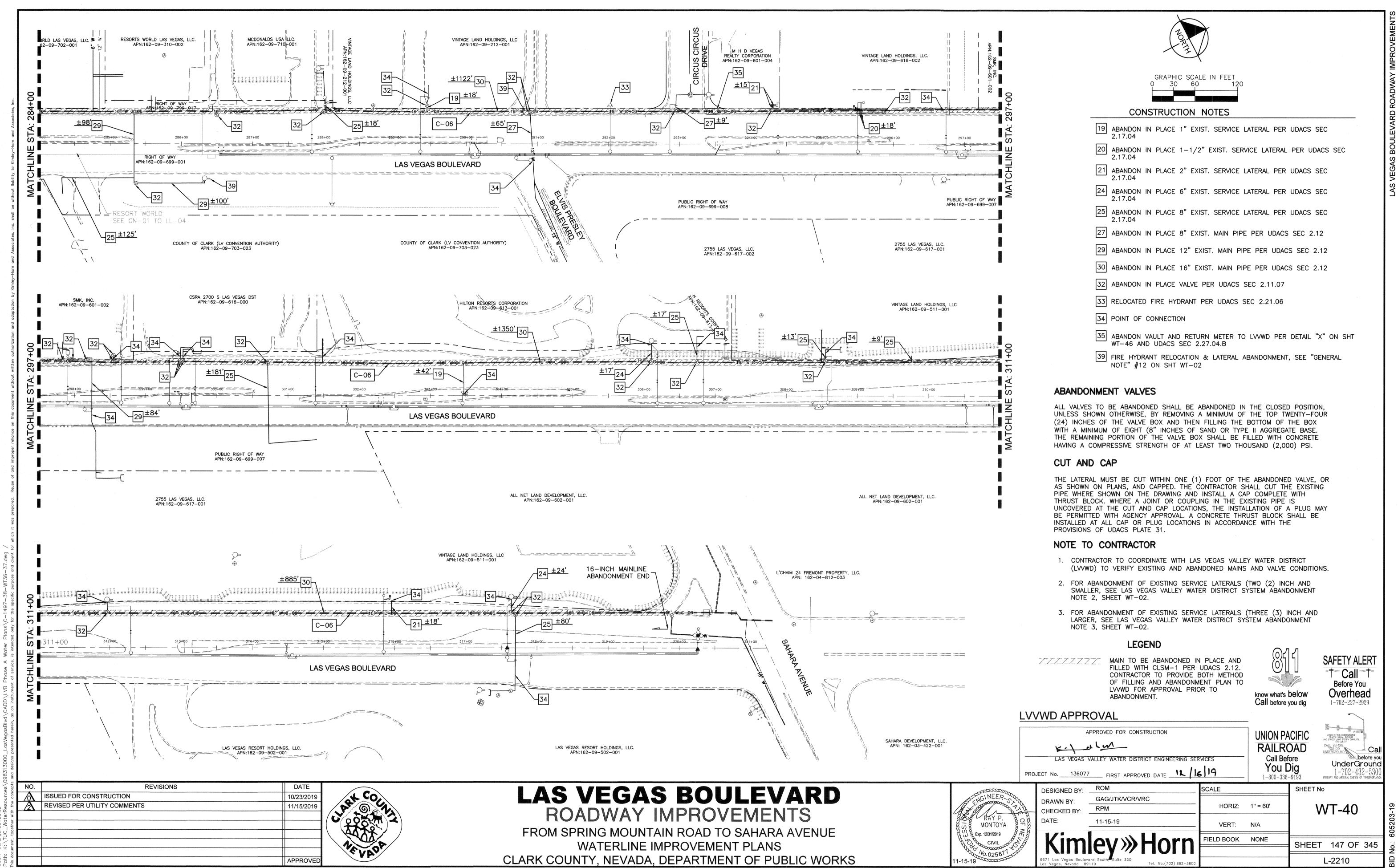
TEST STATION LEADS FROM PIPE — WHITE REFERENCE CELL TEST LEADS — RED ANODE TEST LEADS — GREEN 200' TEST LEAD — BLUE FOREIGN PIPE LEAD — YELLOW CASING — BLACK

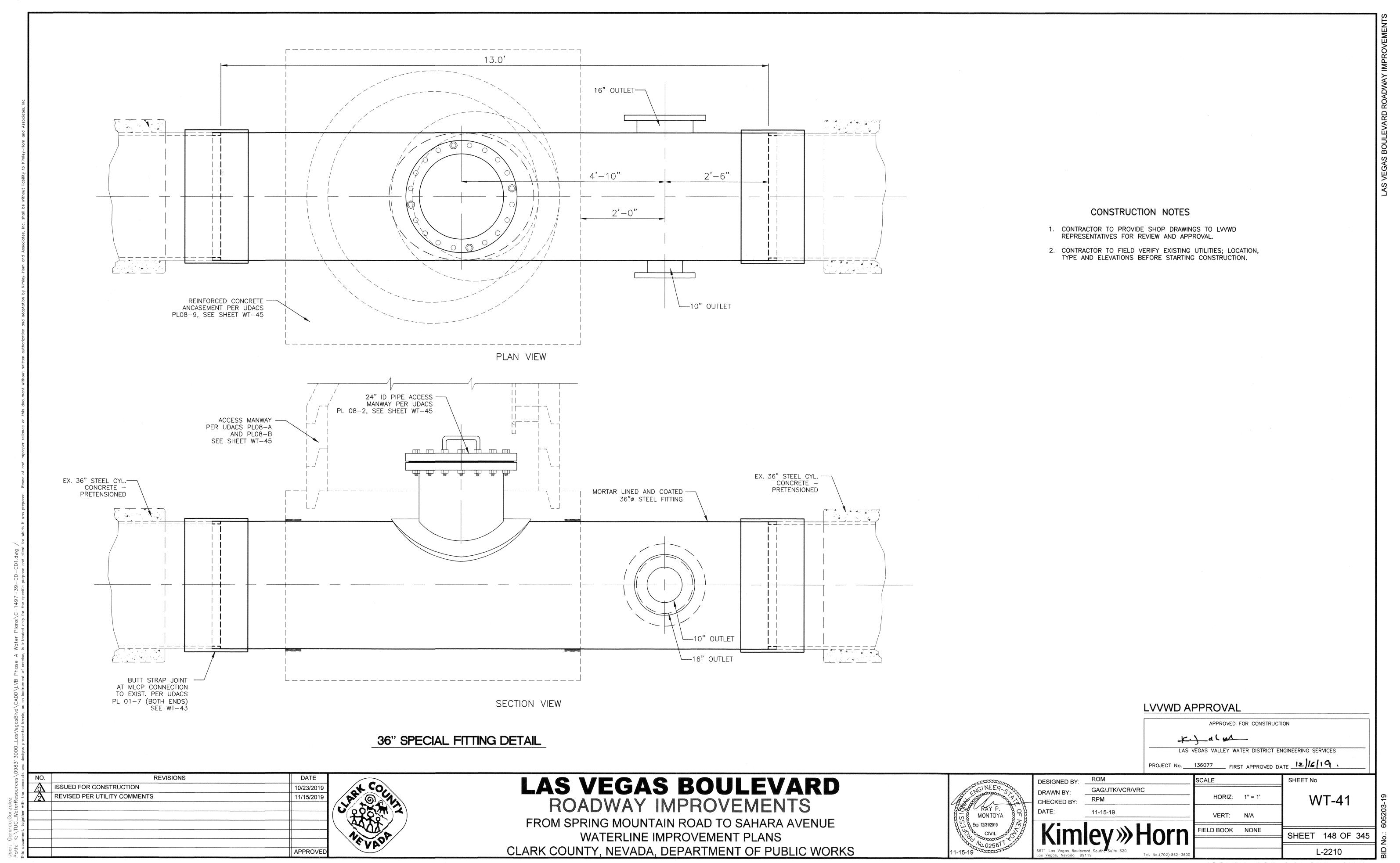
ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED WIRE INSULATION. COLORED TAPING NOT PERMITTED (TYP).

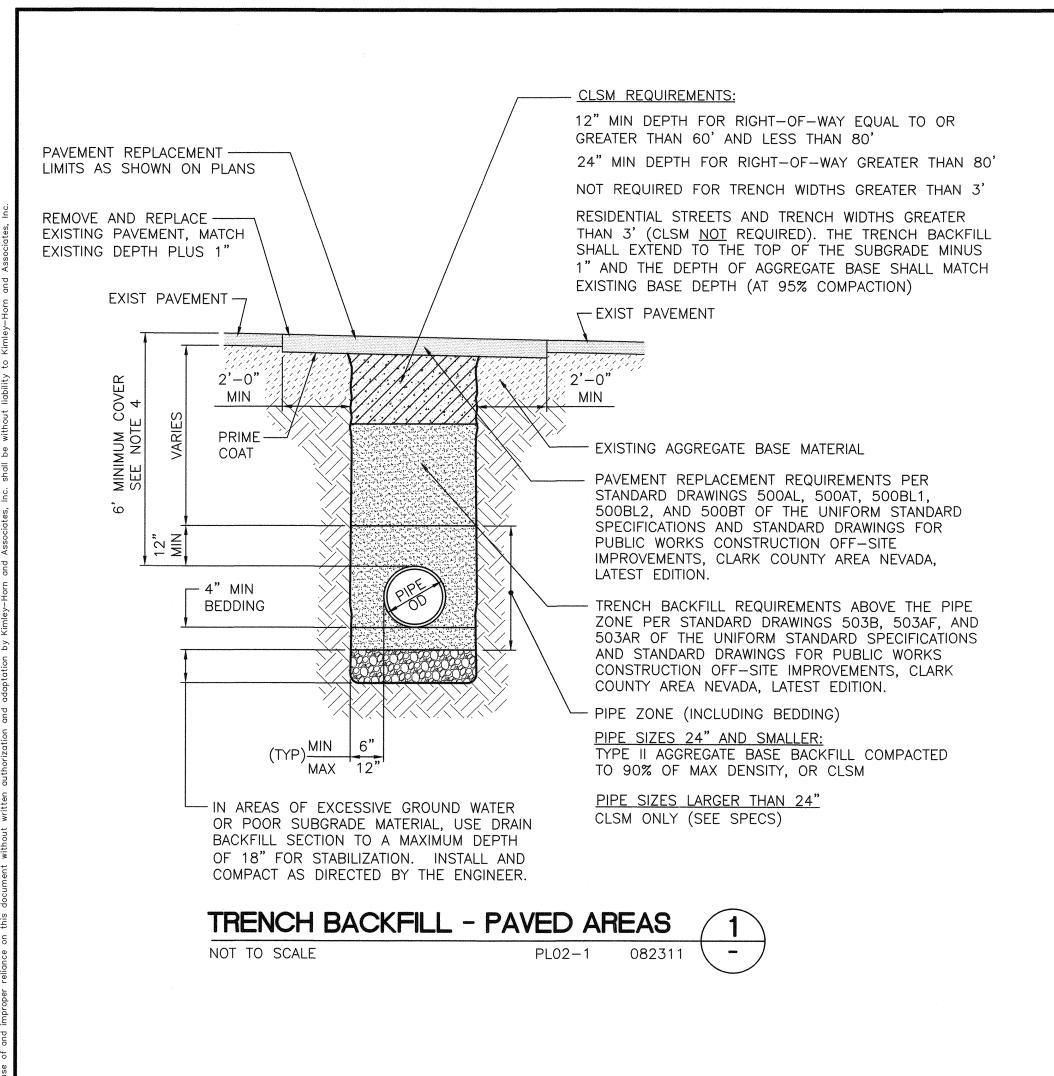
- 7. ALL TEST LEADS AND ANODE LEADS SHALL BE CONNECTED TO THE BRASS BOLTS ON THE TEST BOARD WITH SOLDERLESS SCREW TIGHT COPPER LUG CONNECTORS OR PRESSURE TERMINAL CONNECTORS. ALL FASTENERS (SCREWS, LUGS) SHALL BE BRASS OR COPPER.
- 8. ALL TEST LEADS AND ANODE TEST LEADS SHALL HAVE A MINIMUM OF 4' OF SLACK NEAR THE PIPE JOINT TO PREVENT DAMAGE DURING THE BACKFILL OPERATION.
- 9. ALL TEST LEADS AND ANODE TEST LEADS SHALL BE PLACED ALONG THE SIDE AND BELOW THE SPRINGLINE OF THE PIPE.
- 10. DUAL TEST STATIONS LABEL ALL WIRES TO DISTINGUISH.
- 11. CABLE ASSEMBLIES SHALL BE USED WHEN PRACTICAL.
- 12. TEST STATION PLACEMENT TO BE PERPENDICULAR TO PIPE. AT INTERSECTIONS TEST STATION WIRES TO BE PLACED PARALLEL TO PIPE FOR PLACEMENT PERPENDICULAR TO PIPE AFTER ROAD EASEMENT RADIUS.
- 13. PRE-PACKAGED ANODES SHALL HAVE 6" LIFT OF COMPACTED NATIVE BACKFILL.

 AFTER BACKFILL IS IN PLACE, SATURATE THE AREA WITH TEN (10) GALLONS MINIMUM
 OF WATER. AFTER ALL WATER HAS BEEN ABSORBED CONTINUE BACKFILLING.
- 14. ALL BURIED WIRE SHALL BE PLACED IN A 4" SCH 40 PVC ELECTRICAL CONDUIT FROM THE POINT THAT THE WIRES RUN PERPENDICULAR FROM THE PIPELINE TO THE TERMINATION IN THE TEST BOX. DO NOT PLACE RIBBON IN CONDUIT. CONDUIT NOT SHOWN ON PLANS FOR CLARITY.





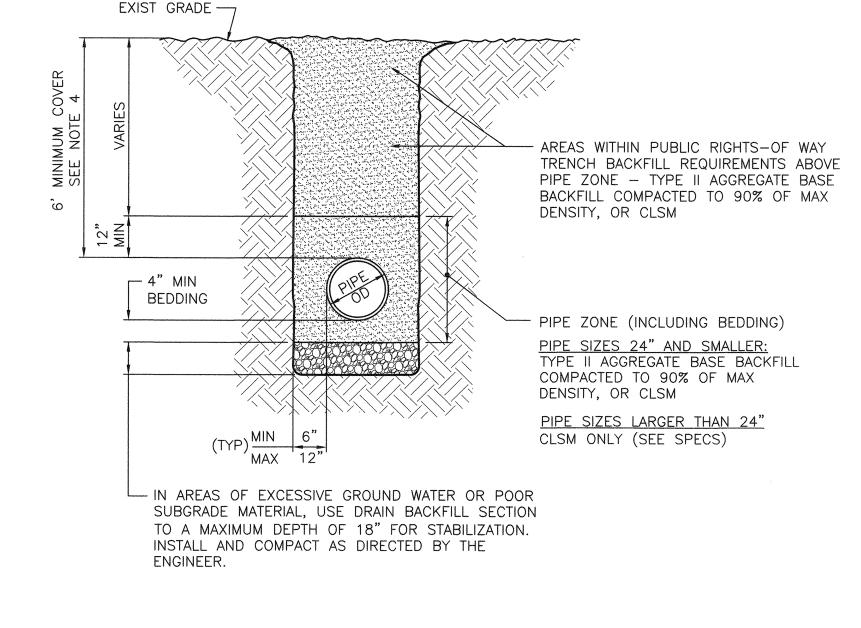




NOTES FOR PAVED AND UNPAVED AREAS PL02-4 072315

UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA

- 2. SEE SPECS SEC 31 20 00 FOR ACCEPTABLE METHODS OF
- 3. TRENCH EXCAVATION: COMPLY WITH THE CURRENT REGULATIONS
- 5. MINIMUM COVER IS REFERENCED TO FUTURE FINISHED FINAL
- 6. SUPPORT PIPE AND FIBER OPTIC CONDUITS (IF REQUIRED) WITH SANDBAGS AND SPOT LOAD AS REQUIRED DURING INSTALLATION OF CLSM IN PIPE ZONE AND PIPE BEDDING AREAS.
- 8. FOG SEAL (SEAL COAT) ALL DENSE GRADE PAVEMENT



TRENCH BACKFILL - UNPAVED AREAS NOT TO SCALE PL02-2 070208 \ -

3-SEE NOTE 5 UNIMPROVED GRADE A.C. PAVEMENT 1'-0"-(3)—SEE NOTE 4 - NEW PIPELINE, SEE NOTE 6

(1) PIPE LOCATOR RIBBON - 3" WIDTH

(2) PIPE LOCATOR RIBBON - 3" WIDTH (INSTALLED WHEN COVER OF NEW PIPELINE IS 7'-0" OR GREATER)

(3) LOCATOR BALL - SEE NOTES

1. CENTER PIPE LOCATOR RIBBON IN TRENCH AND PLACE OVER ENTIRE LENGTH OF ALL TYPES, SIZES AND LOCATIONS OF WATER MAINS

- 2. LOCATOR BALLS REQUIRED AT ALL HORIZONTAL BENDS OR DEFLECTIONS, CASING ENDS, EVERY 400 FEET OF PIPELINE, OR WHERE REQUESTED BY ENGINEER.
- 3. IF A.C. PAVEMENT EXISTS INSTALL LOCATOR BALL AT 3'-0" (TYP).
- 4. IF A CUT TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 3'-0" AND 5'-0" (TYP).
- 5. IF A FILL TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 1'-0" AND 3'-0" (TYP).
- 6. RIBBON FOR RESTRAINED JOINTS/PIPE TO BE TAPED EVERY 20 FEET DIRECTLY TO TOP OF PIPE OR USE SELF-ADHERING RIBBON.

PIPE LOCATOR RIBBON AND LOCATOR BALL INSTALLATION 3

NOT TO SCALE

PL02-6 110210 **TYP**

NEVADA, LATEST EDITION.

INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC)

- AS DETERMINED BY NEVADA OCCUPATIONAL SAFETY AND HEALTH
- 4. DURING CONSTRUCTION 24" MINIMUM COVER MUST BE MAINTAINED FROM TOP OF PIPE TO GRADE.
- GRADES UNLESS OTHERWISE SHOWN ON PROFILE DRAWINGS.
- 7. DIAGONAL PAVEMENT REPLACEMENT IS NOT PERMITTED.
- REPLACEMENT SECTIONS.

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE WATERLINE IMPROVEMENT PLANS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

RAY P. MONTOYA Exp. 12/31/2019

PROJECT No. 136077 FIRST APPROVED DATE 12/16/19. SCALE SHEET No **DESIGNED BY:** GAG/JTK/VCR/VRC DRAWN BY HORIZ: N/A WT-42 CHECKED BY: FIELD BOOK NONE SHEET 149 OF 345 L-2210

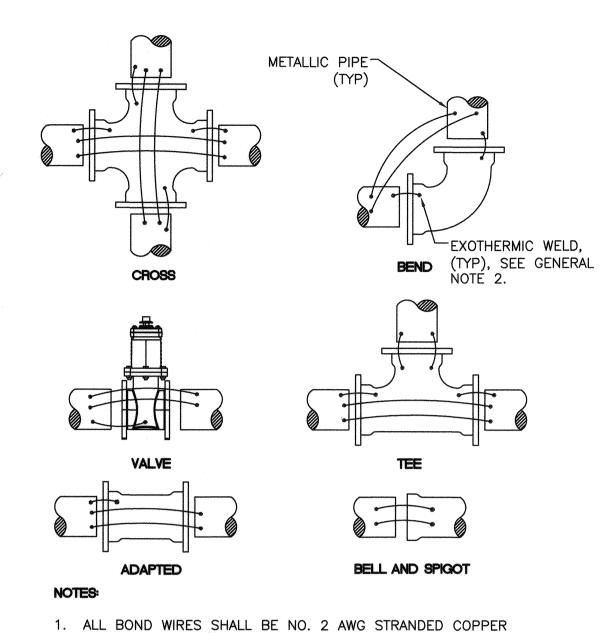
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER UTILITY COMMENTS 11/15/2019 APPROVE

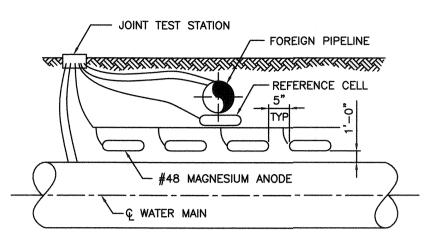


- WIRE WITH HMWPE INSUL. EACH INSTALLED AT MINIMUM LENGTH.

 2. ALL WIRE CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC
- WELD PROCESS. PER DETAIL ATTACHED

 3. BOND WIRES SHALL NOT BE INSTALLED ACROSS JOINTS WITH ELECTRICAL INSULATION DEVICES.





ATTACH ANODE LEAD WIRE TO COLLECTOR CABLE WITH THOMAS ASN BETTS "C"
CRIMP OR EQUAL. SEAL SPLICES WITH 3M SPLICE KITS. LEAVE SUFFICIENT SLACK
SLACK IN CABLE FOR TERMINATION AND TO RELIEVE STRESS ON WIRE DURING BACKFILL

SATURATE EACH ANODE WITH MINIMUM 5 GAL WATER BEFORE BACKFILLING

JOINT TEST STATION: CONTRACTOR SHALL INSTALL TYPICAL STATION AS SHOWN TWO WEEKS PRIOR TO INSTALLATION OF THE JOINT TEST STATION. CONTACT: SOUTHWEST GAS (702)565-2765. CAL/NEV PIPELINE CO (714) 888-7771. SOUTHWEST GAS - CAL/NEV WILL MAKE A CONNECTION BETWEEN THEIR FACILITIES AND THE TEST BOARD. PLACE REFERENCE CELL BETWEEN WATER PIPE AND GAS/PETROLEUM MAIN

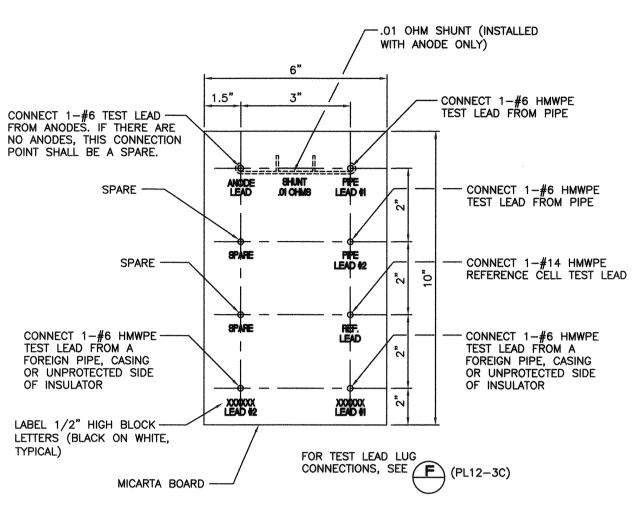
APPROXIMATE PIPELINE STATIONING FOR JOINT TEST STATIONS WITH ANODE						
DWG NO STATION FOREIGN PIPE ADDITIONAL WIRE						
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m-Obstantes Demonstrative statement and the statement						

JOINT TEST STATION WITH ANODES
FOR STRAY CURRENT MITIGATION

NOT TO SCALE

PL12-4

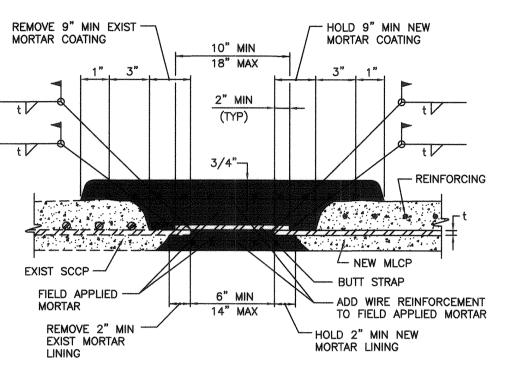
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TEST BOARD FOR JOINT TEST STATION E

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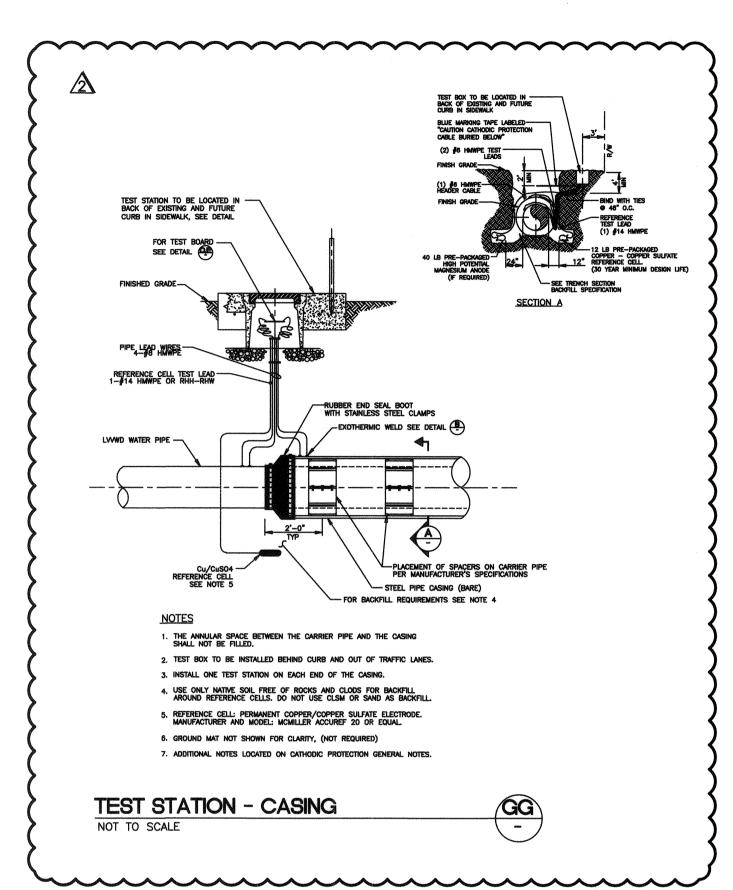
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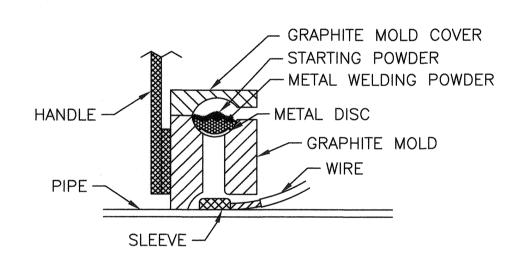


NOTES:

- 1. SEE SPECS SEC 33 11 50 FOR MORTAR LINED AND COATED STEEL PIPE.
- 2. BEFORE ANY CUT IS MADE TO THE EXISTING SCCP, TACK WELD THE EXISTING SPIRAL ROD WRAP OUTSIDE OF THE CUT AREA TO MAINTAIN TENSION, THEN CUT THE ROD WRAP AT APPROXIMATELY THE CENTER OF THE AREA TO BE REMOVED AND USING THE EXCESS ROD WRAP, TENSION 1-1/2 FULL OF THE ROD WRAP SNUGLY AROUND AND WELD TO THE CYLINDER PARALLEL TO WHERE THE CUT IN THE EXISTING SCCP IS TO BE MADE.

BUTT STRAP JOINT AT MLCP
CONNECTIONS TO EXISTING SCCP
NOT TO SCALE
PL01-7 072315 -



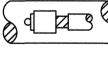


STEP 1 FILE STRUCTURE CONNECTION AREA (3" X 3")
MINIMUM. TO BARE SHINY METAL AND CLEAN.

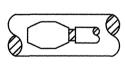
STEP 2 STRIP INSULATION FROM WIRE



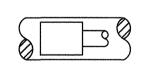
LOAD W/ 45# SHOT FOR DIP OR 15# SHOT FOR STEEL PIPE



STEP 4 HOLD FIRMLY WITH OPENING WAY FROM OPERATOR AND IGNITE WITH FLINT GUN



REMOVE SLAG FROM CONNECTION. TEST WELD BY STRIKING WITH A 2 LB. HAMMER WHILE PULLING FIRMLY ON THE WIRE. ALL UNSOUND WELDS MUST BE REMOVED AND RESURFACED.



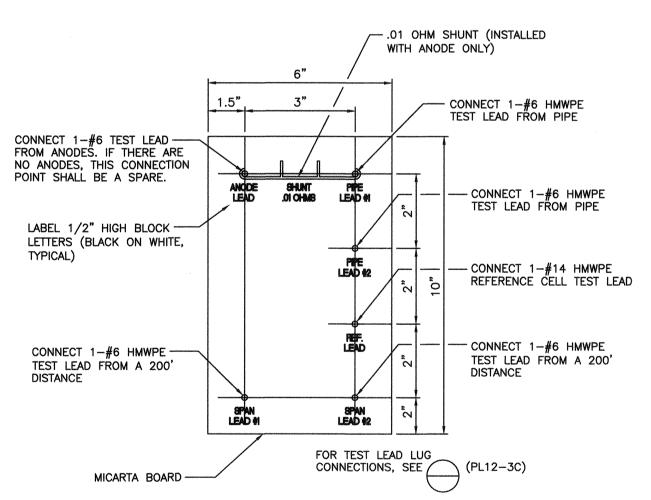
EP 6 COVER CONNECTION AND EXPOSED STRUCTURE SURFACE WITH WELD CAP AND BITUMINOUS COATING COMPOUND. REPAIR PIPELINE COATING ACCORDING TO MANUFACTURER SPECIFICATIONS.

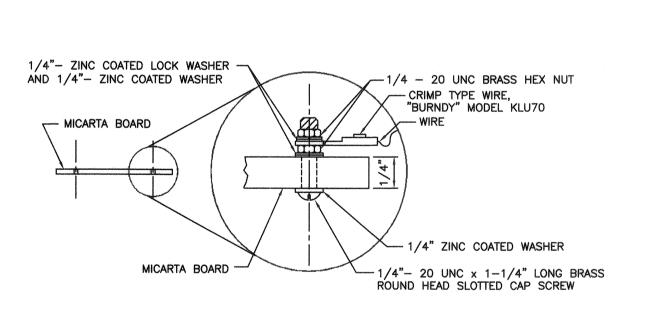
NOTE: ALL WER

ALL WERE WELDS SHALL BE A MINIMUM OF 6" APART.

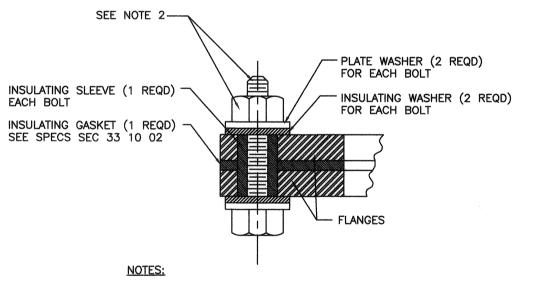
B EXOTHERMIC WELD DETAIL

NOT TO SCALE





F TEST BOARD DETAIL - TYPICAL LUG AND STUD CONNECTION



- TORQUE BOLTS PER INSULATING FLANGE SET MANUFACTURERS RECOMMENDATIONS (TYP).
- 2. VAULT LOCATIONS: ASTM F593, SS TYPE 316
 BOLT WITH ASTM A563 NUT, XYLAN 1000
 SERIES COATING.

BURIED OR EXPOSED LOCATIONS: ASTM A307 BOLT — UNC THREADS, WITH ASTM A563 NUT, ZINC COATED.

INSULATING FLANGE SET DETAIL H
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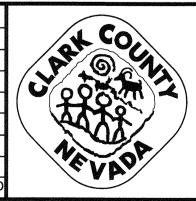
STANDARD TEST BOARD INSTALLATION D
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

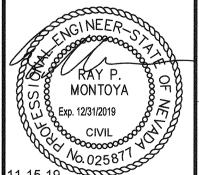
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

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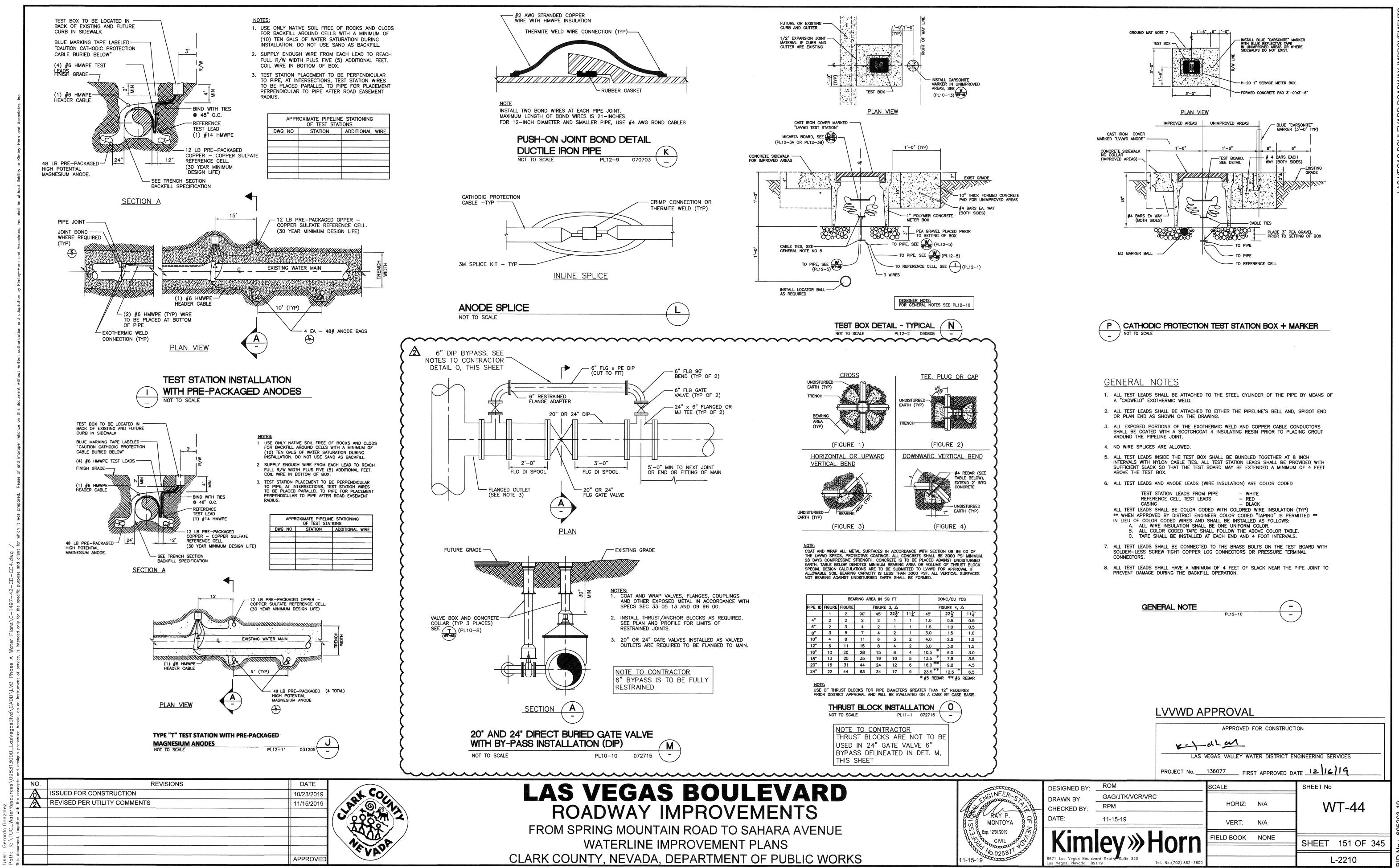


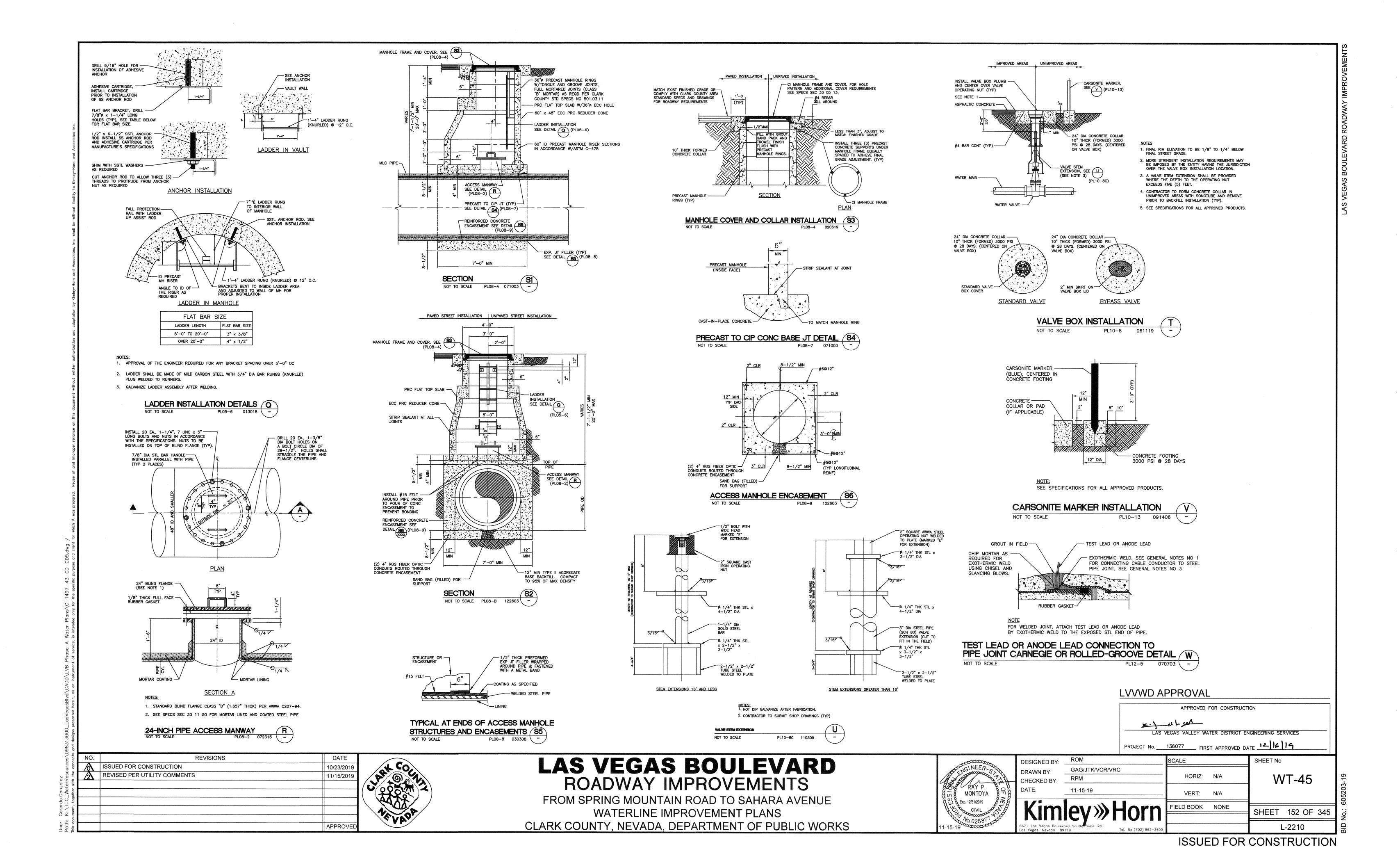
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

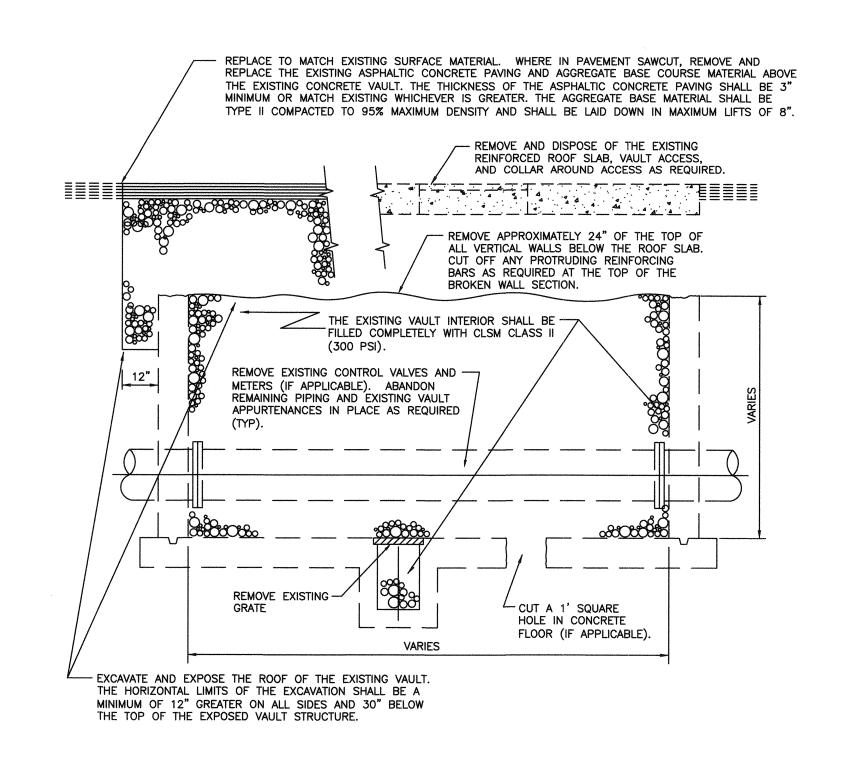
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
WATERLINE IMPROVEMENT PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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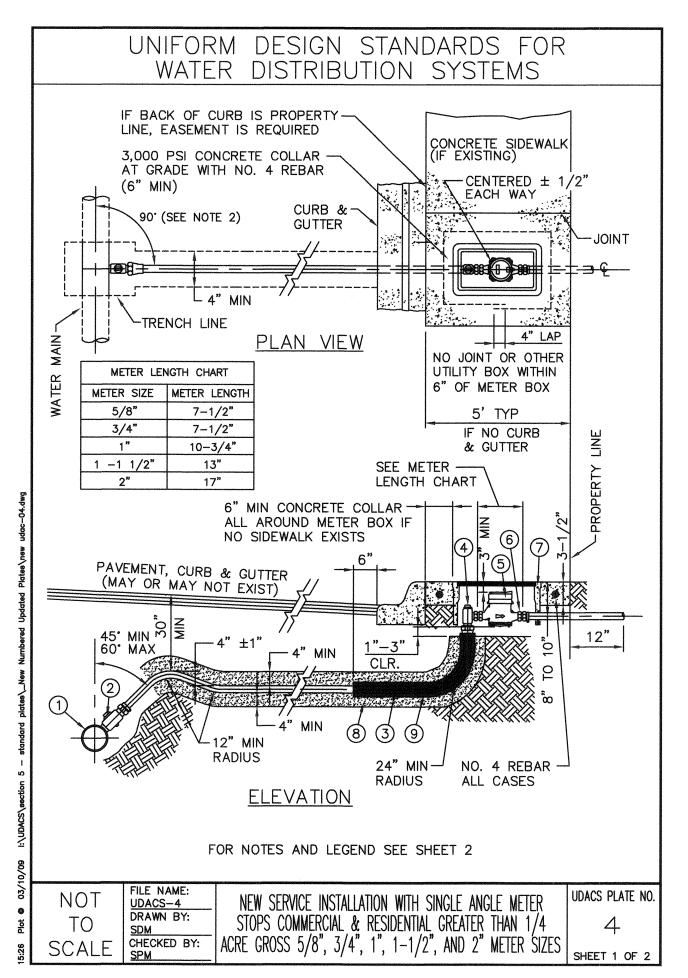


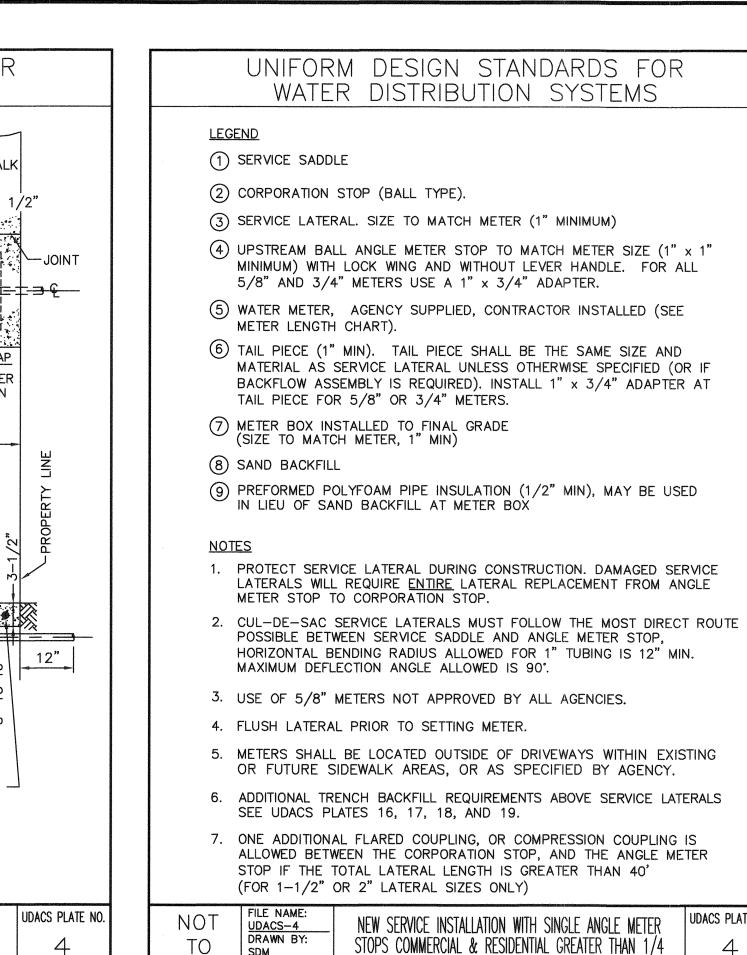




EXISTING VAULT STRUCTURE ABANDONMENT (X)

NOT TO SCALE





UNIFORM DESIGN STANDARDS FOR

WATER DISTRIBUTION SYSTEMS

MINIMUM) WITH LOCK WING AND WITHOUT LEVER HANDLE. FOR ALL

MATERIAL AS SERVICE LATERAL UNLESS OTHERWISE SPECIFIED (OR IF

BACKFLOW ASSEMBLY IS REQUIRED). INSTALL 1" x 3/4" ADAPTER AT

LATERALS WILL REQUIRE ENTIRE LATERAL REPLACEMENT FROM ANGLE METER STOP TO CORPORATION STOP.

POSSIBLE BETWEEN SERVICE SADDLE AND ANGLE METER STOP,

OR FUTURE SIDEWALK AREAS, OR AS SPECIFIED BY AGENCY.

STOP IF THE TOTAL LATERAL LENGTH IS GREATER THAN 40'

CHECKED BY: ACRE GROSS 5/8", 3/4", 1", 1-1/2", AND 2" METER SIZES

ALLOWED BETWEEN THE CORPORATION STOP, AND THE ANGLE METER

NEW SERVICE INSTALLATION WITH SINGLE ANGLE METER

STOPS COMMERCIAL & RESIDENTIAL GREATER THAN 1/4

HORIZONTAL BENDING RADIUS ALLOWED FOR 1" TUBING IS 12" MIN.

5/8" AND 3/4" METERS USE A 1" x 3/4" ADAPTER.

TAIL PIECE FOR 5/8" OR 3/4" METERS.

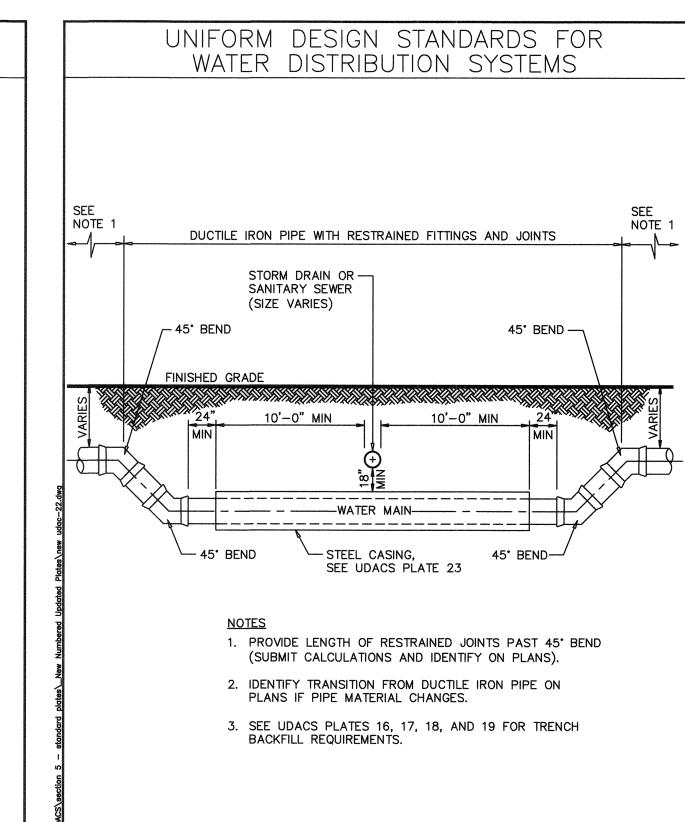
IN LIEU OF SAND BACKFILL AT METER BOX

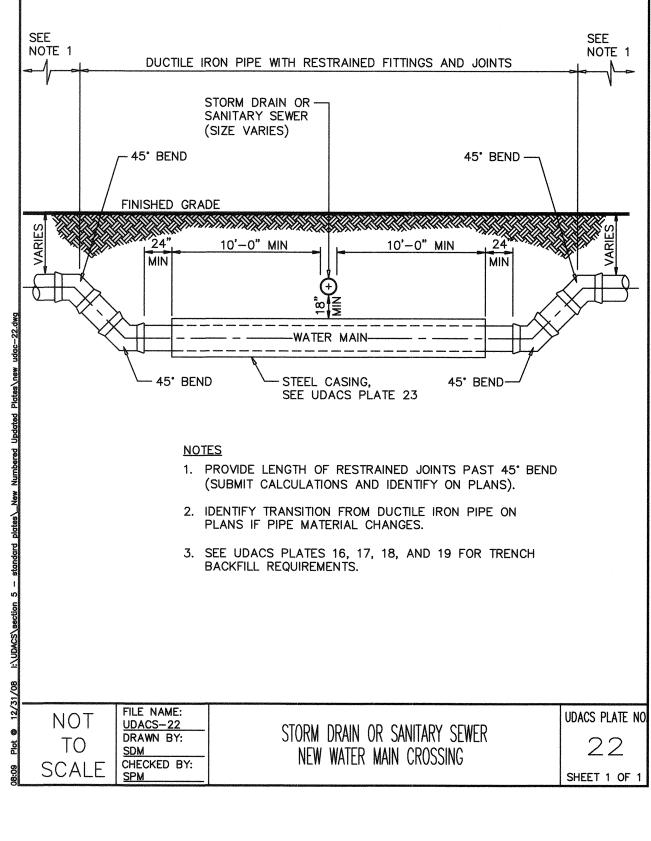
MAXIMUM DEFLECTION ANGLE ALLOWED IS 90°.

SEE UDACS PLATES 16, 17, 18, AND 19.

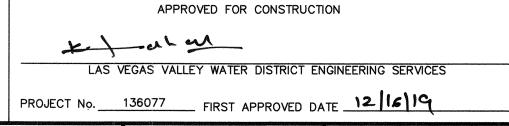
(FOR 1-1/2" OR 2" LATERAL SIZES ONLY)

METER LENGTH CHART).



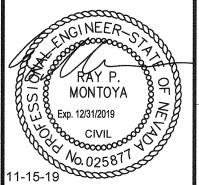




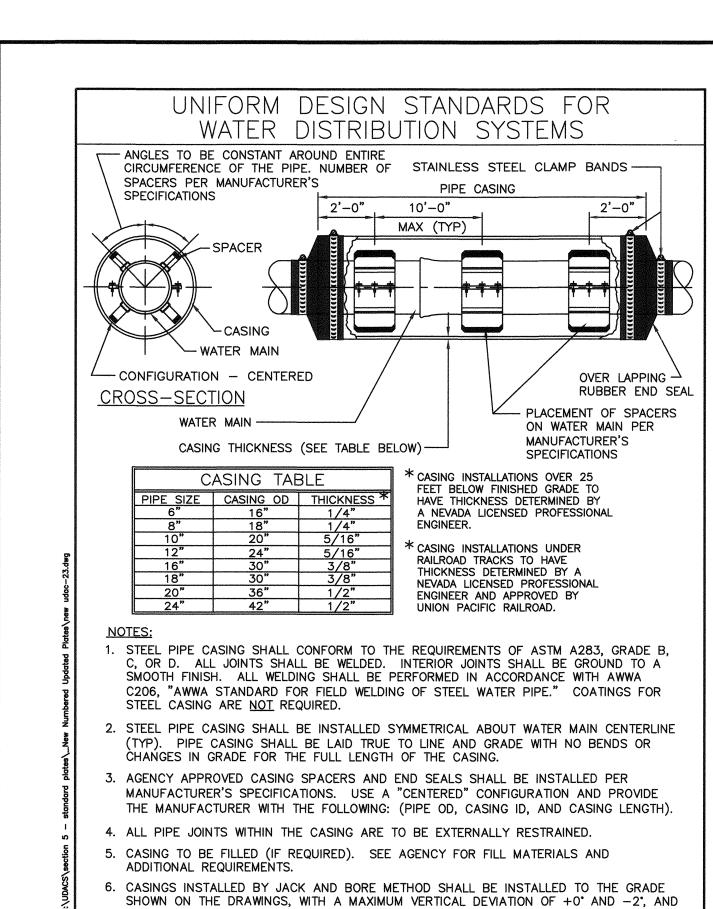


ISSUED FOR CONSTRUCTION REVISED PER UTILITY COMMENTS 11/15/2019





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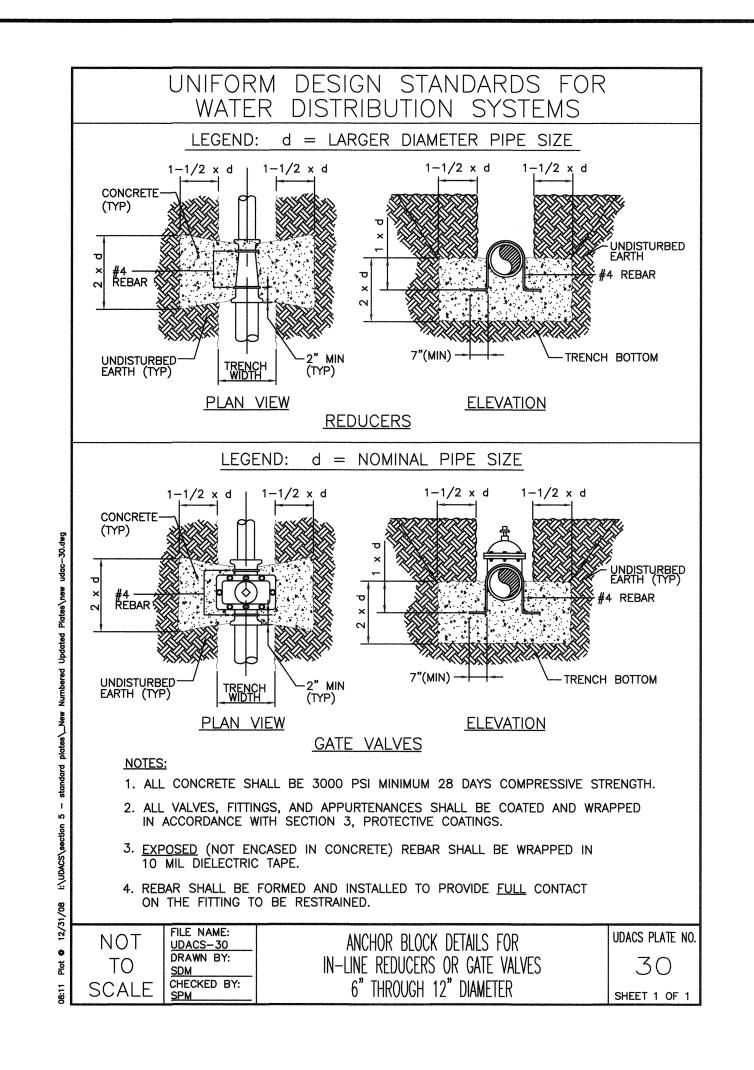


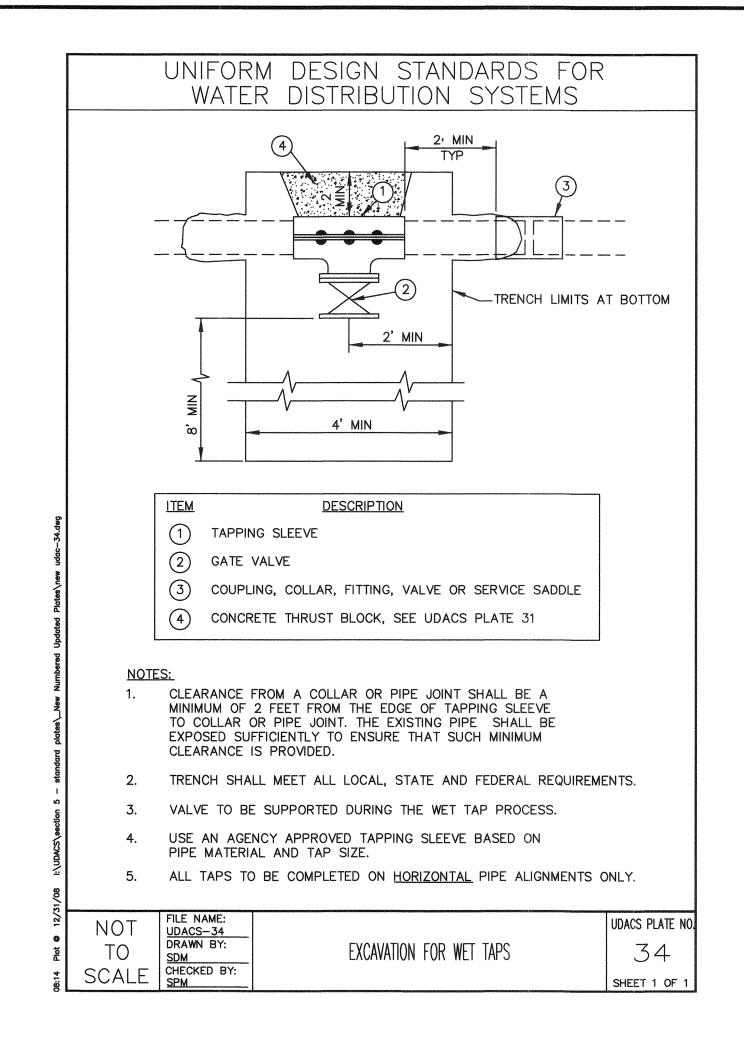
A MAXIMUM HORIZONTAL DEVIATION OF ±2° PROVIDED THE ALIGNMENT DOES NOT

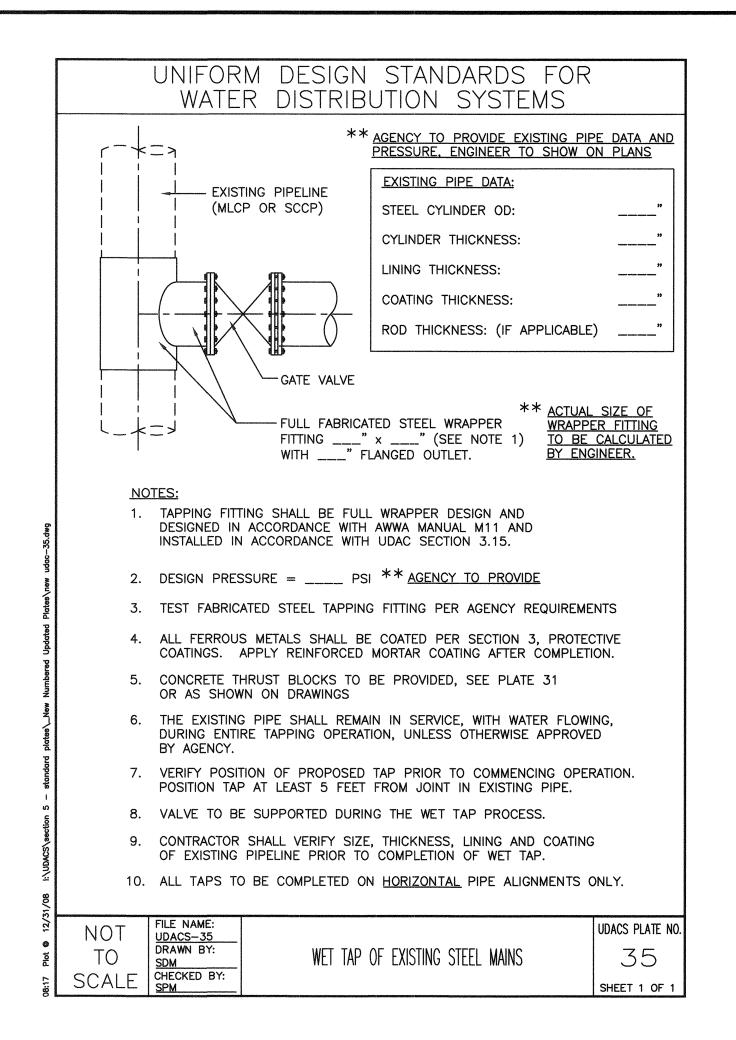
CASING INSTALLATION

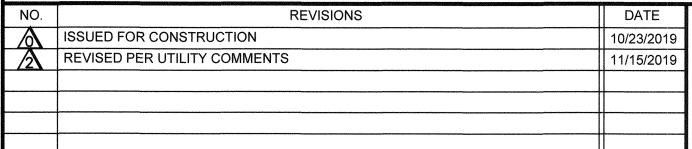
CONFLICT WITH OTHER UTILITIES AND/OR RIGHTS-OF-WAY.

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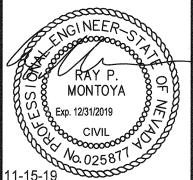




APPROVE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE WATERLINE IMPROVEMENT PLANS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

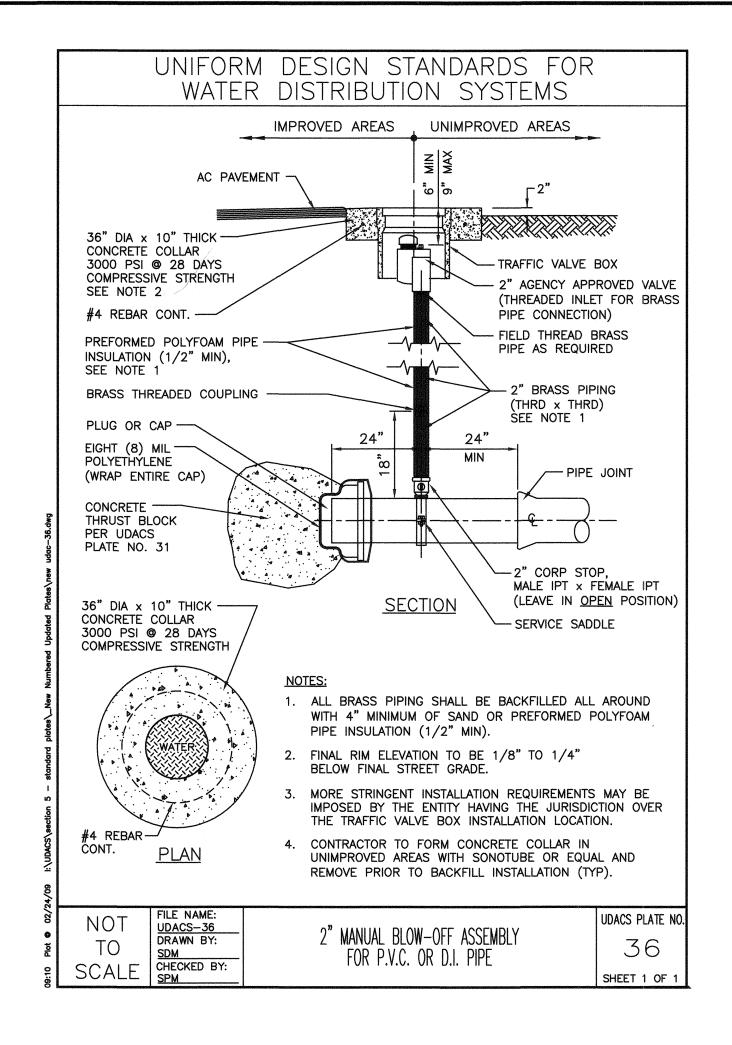


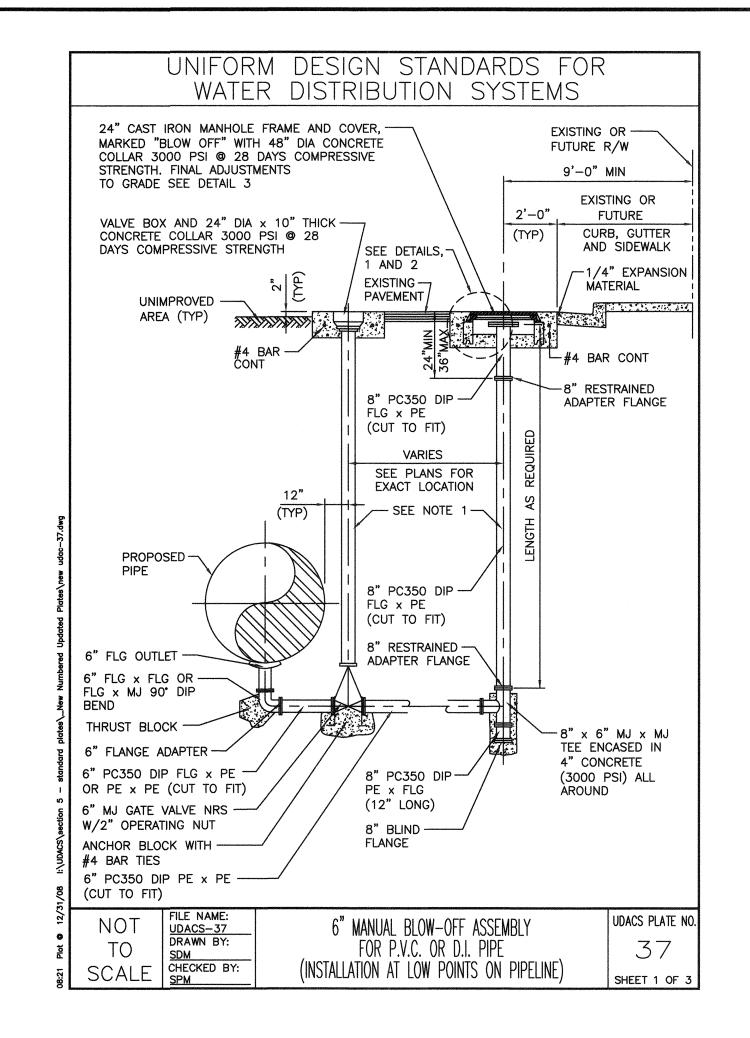
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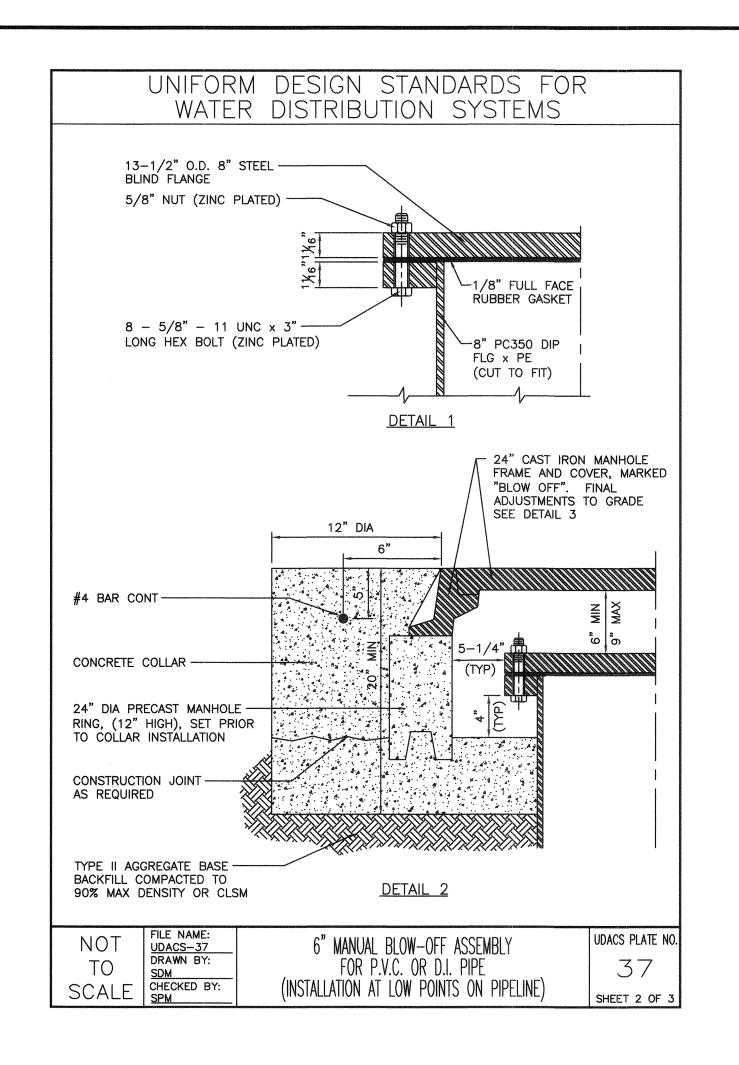
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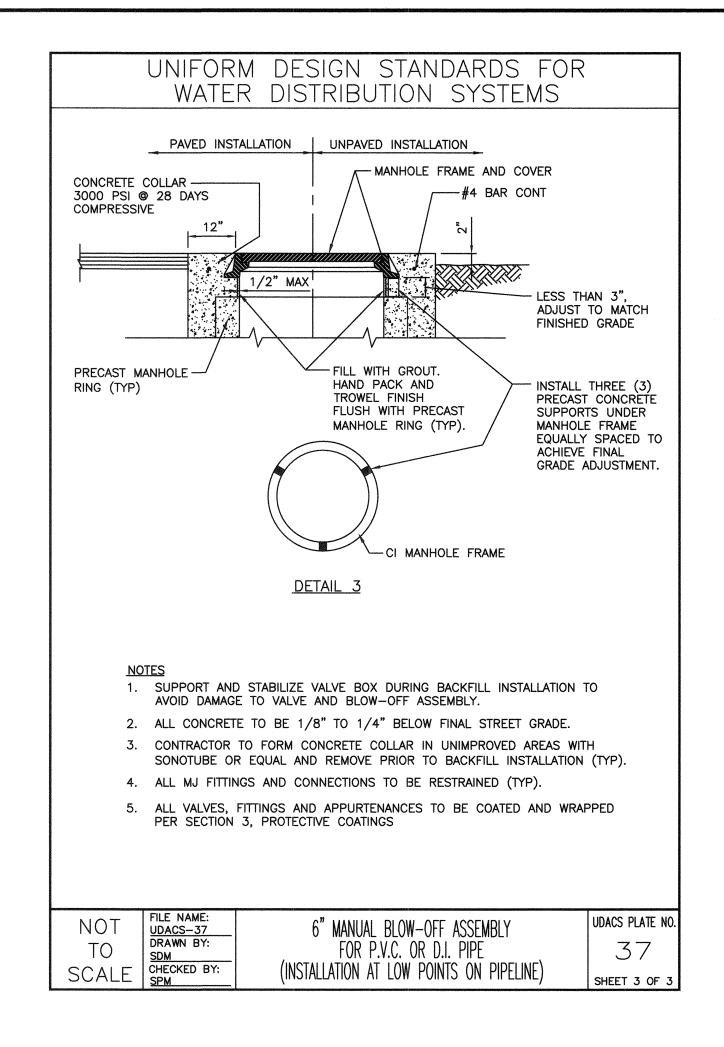
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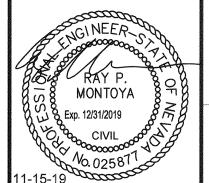
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 136077 FIRST APPROVED DATE 12 16 19

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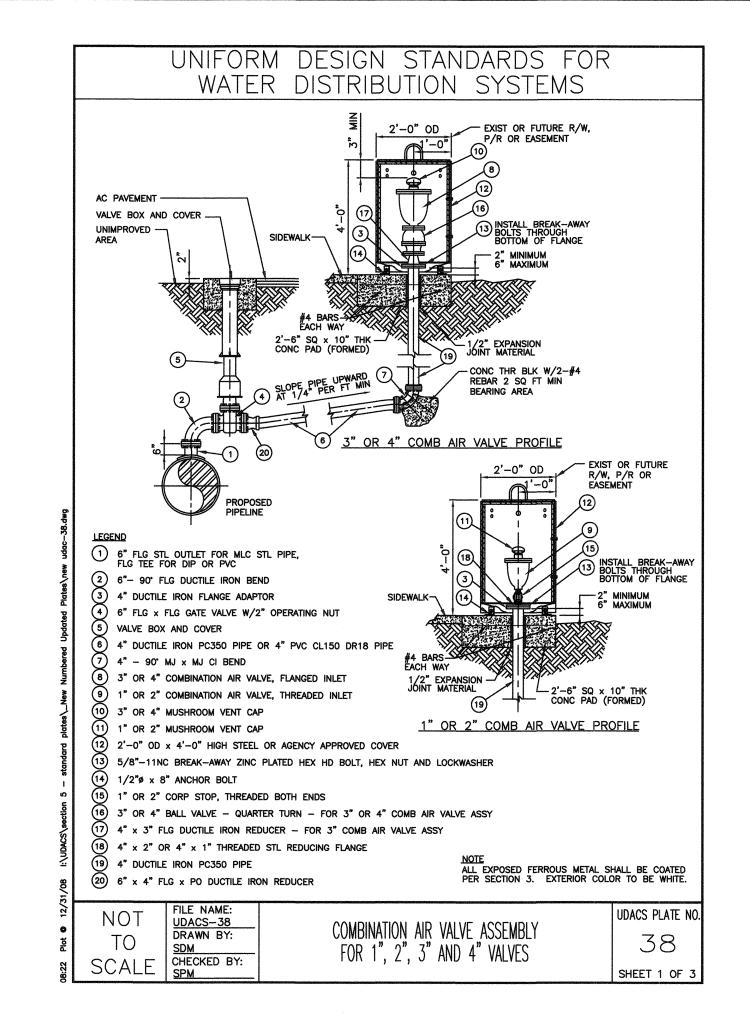


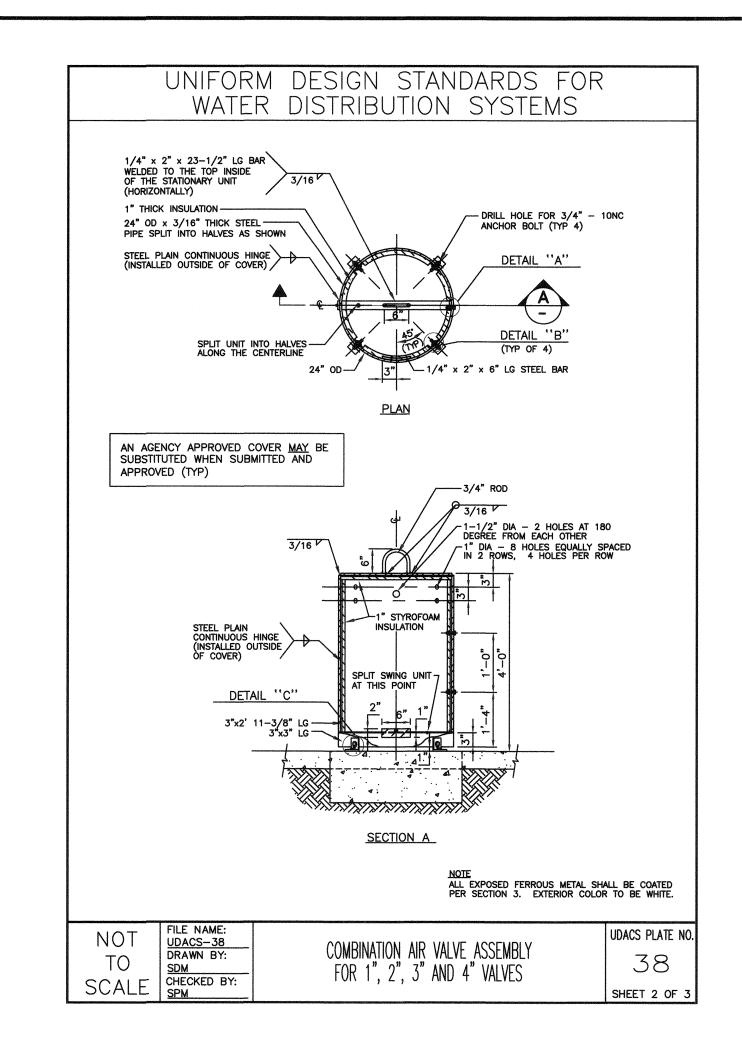
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

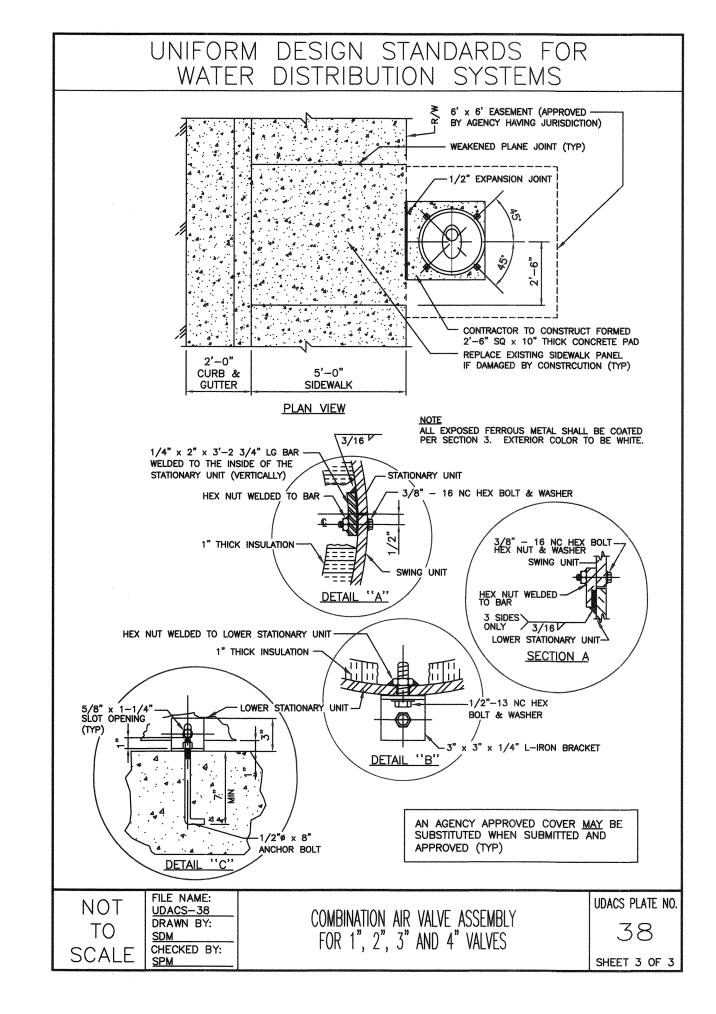
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
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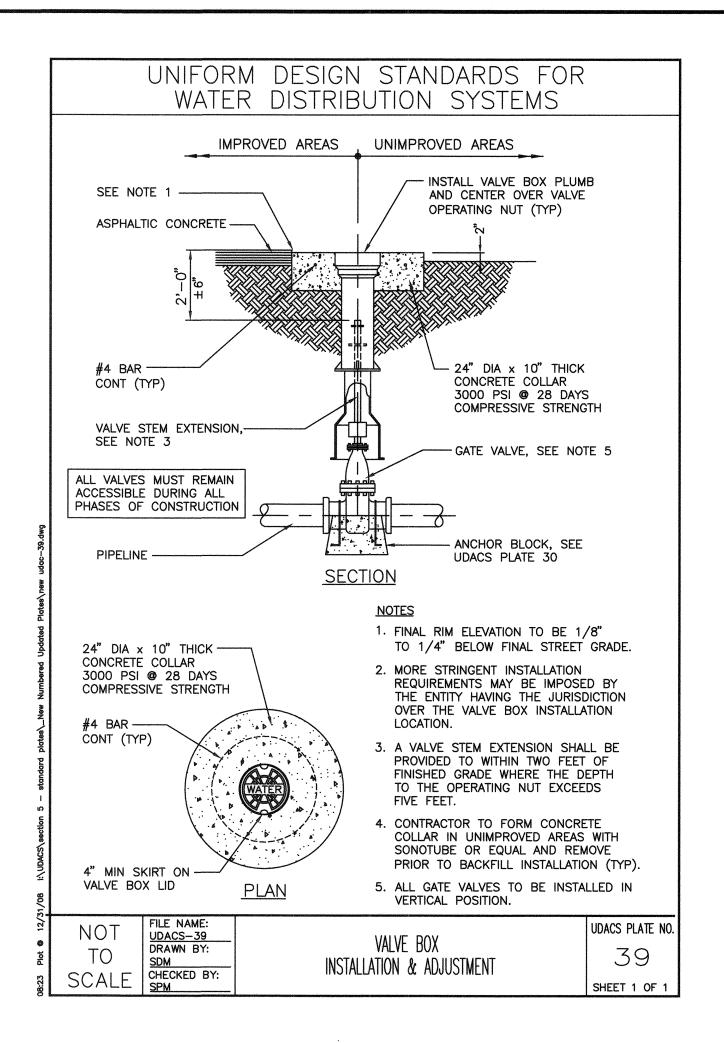


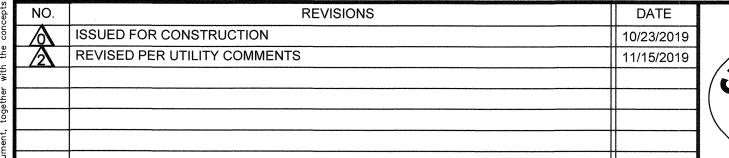
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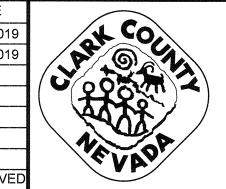






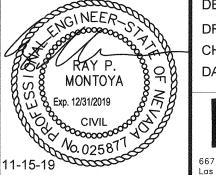






LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
WATERLINE IMPROVEMENT PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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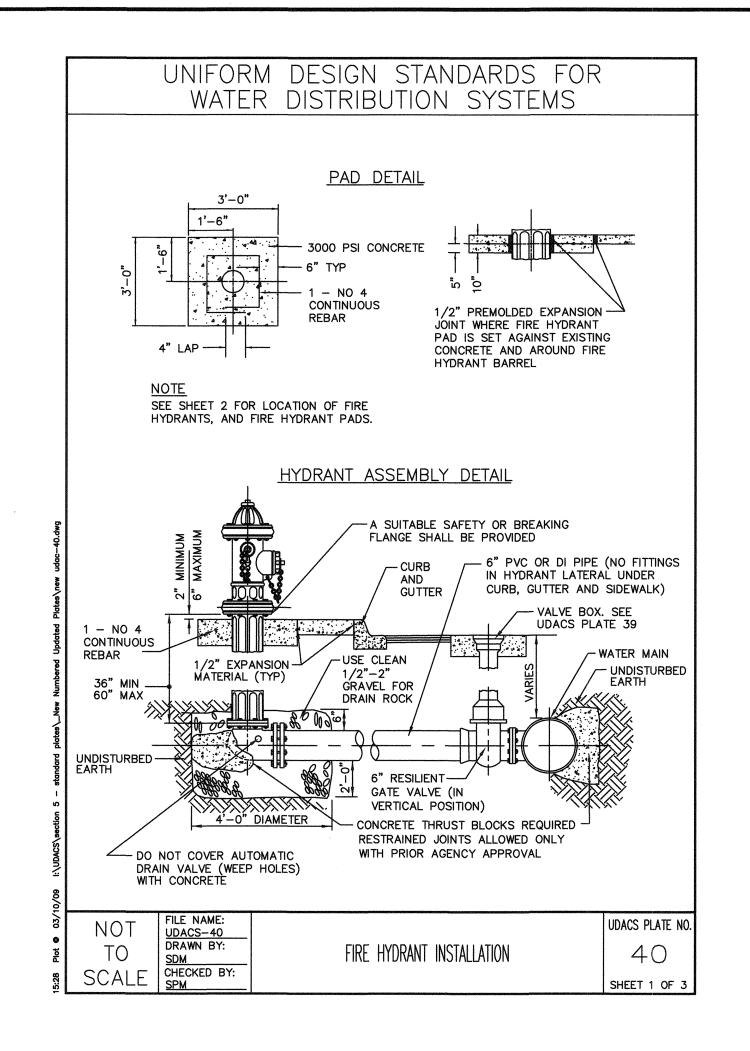
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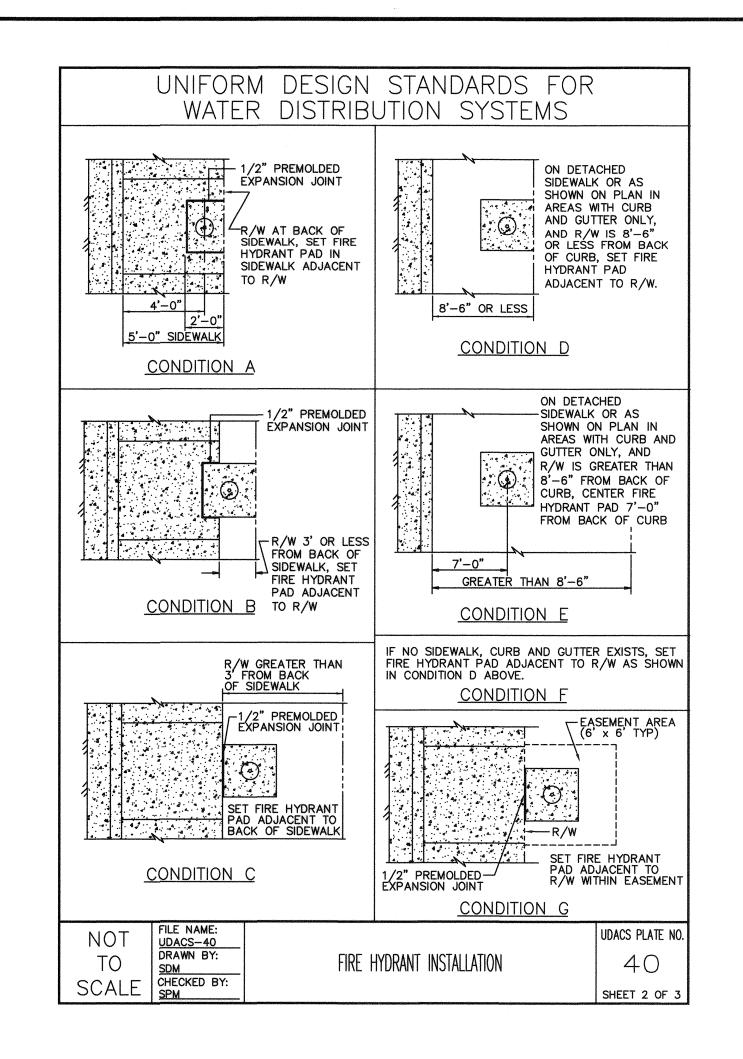
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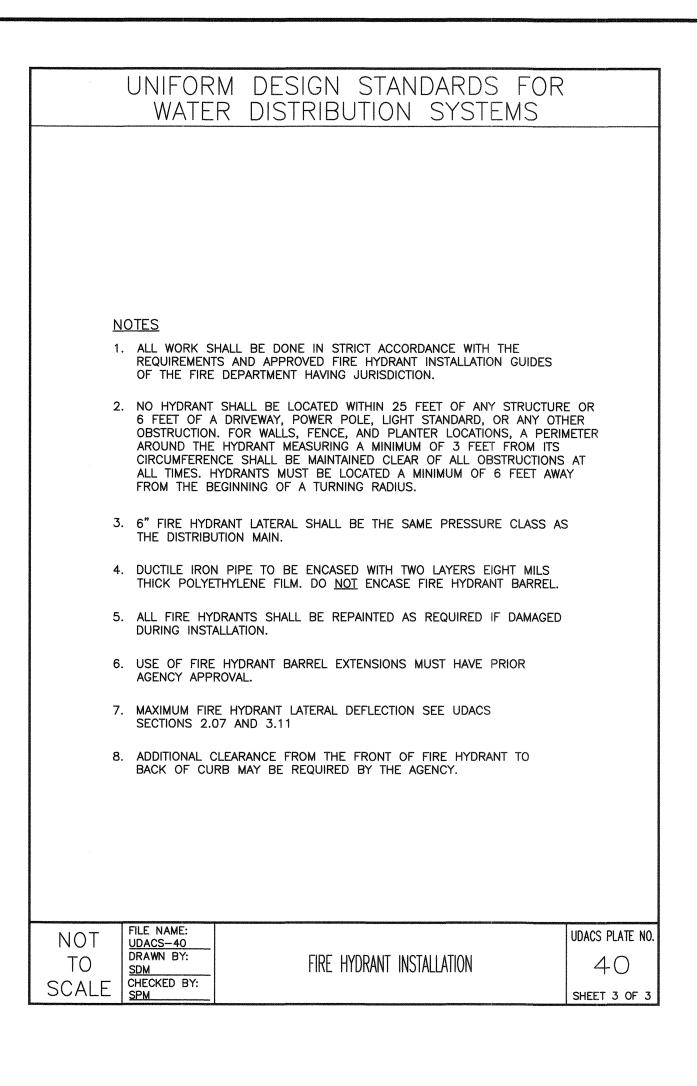
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

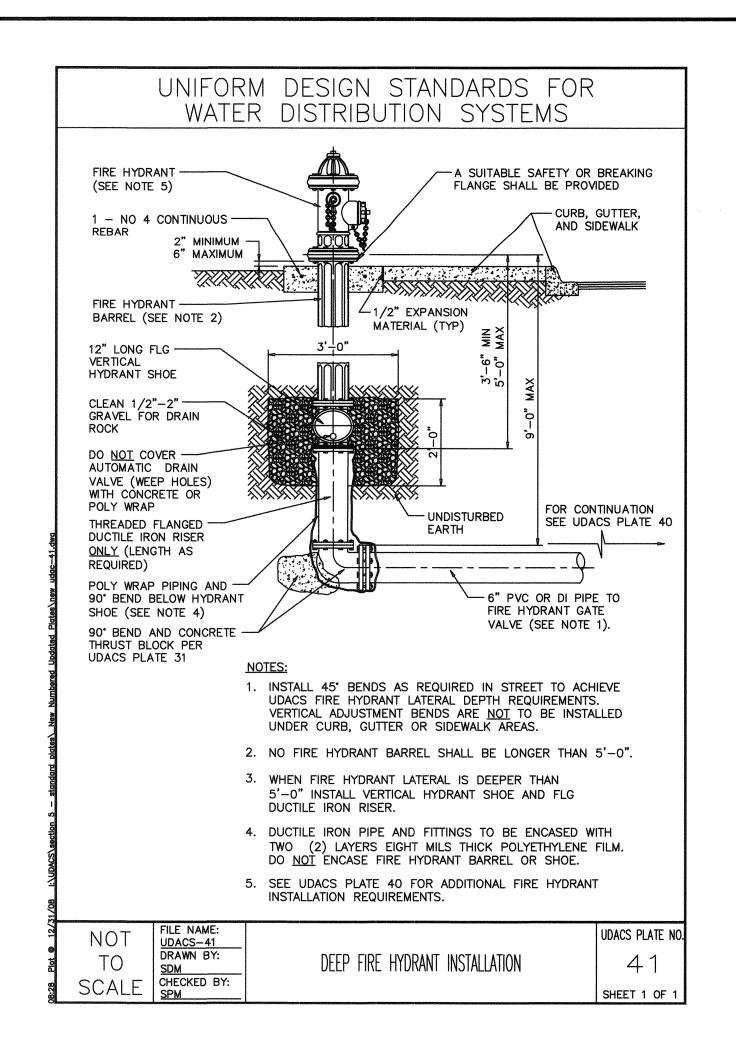
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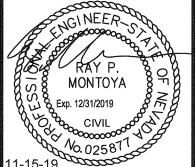
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REVISED PER UTILITY COMMENTS 11/15/2019

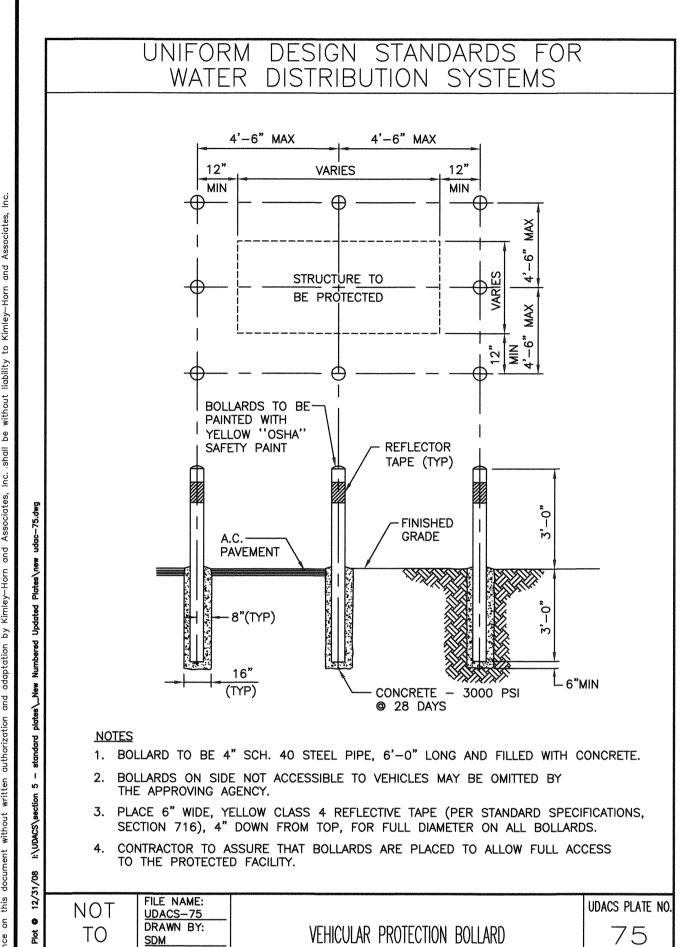


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

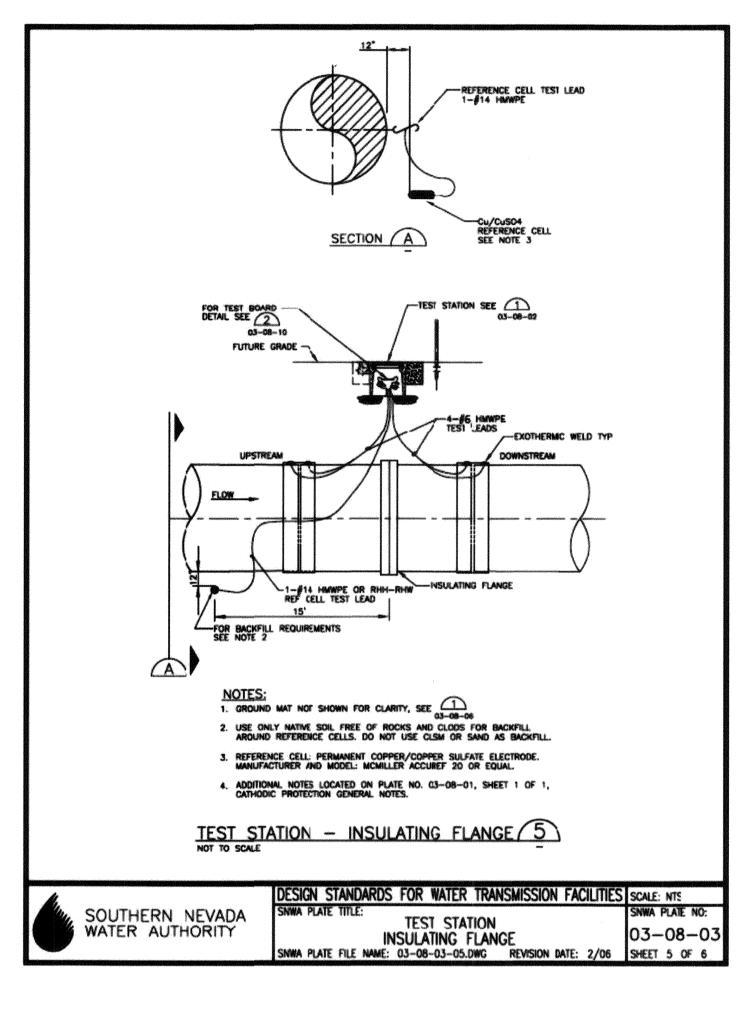
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
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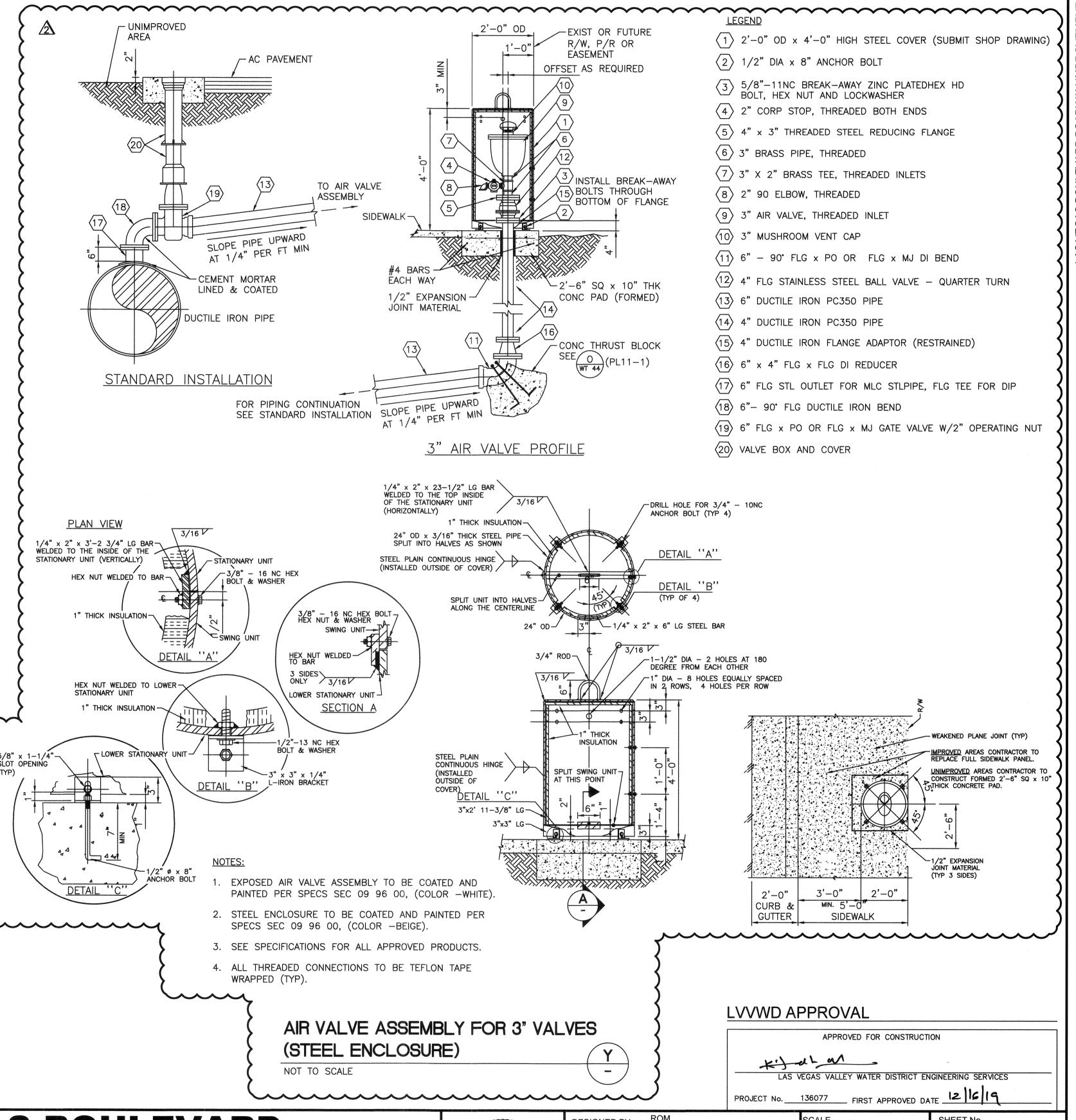


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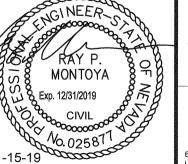




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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



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