

The vicinity map shows the proposed site (shaded area) located between Alameda Blvd and R-1B. The site is bounded by R-1B to the north, R-1D to the east, and R-1M to the south. The Rio Grande river is shown to the south of the site. The map includes various street names and lot numbers, such as 22601, 22602, 22603, 22604, 22605, 22606, 22607, 22608, 22609, 22610, 22611, 22612, 22613, 22614, 22615, 22616, 22617, 22618, 22619, 22620, 22621, 22622, 22623, 22624, 22625, 22626, 22627, 22628, 22629, 22630, 22631, 22632, 22633, 22634, 22635, 22636, 22637, 22638, 22639, 22640, 22641, 22642, 22643, 22644, 22645, 22646, 22647, 22648, 22649, 22650, 22651, 22652, 22653, 22654, 22655, 22656, 22657, 22658, 22659, 22660, 22661, 22662, 22663, 22664, 22665, 22666, 22667, 22668, 22669, 22670, 22671, 22672, 22673, 22674, 22675, 22676, 22677, 22678, 22679, 22680, 22681, 22682, 22683, 22684, 22685, 22686, 22687, 22688, 22689, 22690, 22691, 22692, 22693, 22694, 22695, 22696, 22697, 22698, 22699, 22700, 22701, 22702, 22703, 22704, 22705, 22706, 22707, 22708, 22709, 22710, 22711, 22712, 22713, 22714, 22715, 22716, 22717, 22718, 22719, 22720, 22721, 22722, 22723, 22724, 22725, 22726, 22727, 22728, 22729, 22730, 22731, 22732, 22733, 22734, 22735, 22736, 22737, 22738, 22739, 22740, 22741, 22742, 22743, 22744, 22745, 22746, 22747, 22748, 22749, 22750, 22751, 22752, 22753, 22754, 22755, 22756, 22757, 22758, 22759, 22760, 22761, 22762, 22763, 22764, 22765, 22766, 22767, 22768, 22769, 22770, 22771, 22772, 22773, 22774, 22775, 22776, 22777, 22778, 22779, 22780, 22781, 22782, 22783, 22784, 22785, 22786, 22787, 22788, 22789, 22790, 22791, 22792, 22793, 22794, 22795, 22796, 22797, 22798, 22799, 22800, 22801, 22802, 22803, 22804, 22805, 22806, 22807, 22808, 22809, 22810, 22811, 22812, 22813, 22814, 22815, 22816, 22817, 22818, 22819, 22820, 22821, 22822, 22823, 22824, 22825, 22826, 22827, 22828, 22829, 22830, 22831, 22832, 22833, 22834, 22835, 22836, 22837, 22838, 22839, 22840, 22841, 22842, 22843, 22844, 22845, 22846, 22847, 22848, 22849, 22850, 22851, 22852, 22853, 22854, 22855, 22856, 22857, 22858, 22859, 22860, 22861, 22862, 22863, 22864, 22865, 22866, 22867, 22868, 22869, 22870, 22871, 22872, 22873, 22874, 22875, 22876, 22877, 22878, 22879, 22880, 22881, 22882, 22883, 22884, 22885, 22886, 22887, 22888, 22889, 22890, 22891, 22892, 22893, 22894, 22895, 22896, 22897, 22898, 22899, 22900, 22901, 22902, 22903, 22904, 22905, 22906, 22907, 22908, 22909, 22910, 22911, 22912, 22913, 22914, 22915, 22916, 22917, 22918, 22919, 22920, 22921, 22922, 22923, 22924, 22925, 22926, 22927, 22928, 22929, 22930, 22931, 22932, 22933, 22934, 22935, 22936, 22937, 22938, 22939, 22940, 22941, 22942, 22943, 22944, 22945, 22946, 22947, 22948, 22949, 22950, 22951, 22952, 22953, 22954, 22955, 22956, 22957, 22958, 22959, 22960, 22961, 22962, 22963, 22964, 22965, 22966, 22967, 22968, 22969, 22970, 22971, 22972, 22973, 22974, 22975, 22976, 22977, 22978, 22979, 22980, 22981, 22982, 22983, 22984, 22985, 22986, 22987, 22988, 22989, 22990, 22991, 22992, 22993, 22994, 22995, 22996, 22997, 22998, 22999, 23000, 23001, 23002, 23003, 23004, 23005, 23006, 23007, 23008, 23009, 23010, 23011, 23012, 23013, 23014, 23015, 23016, 23017, 23018, 23019, 23020, 23021, 23022, 23023, 23024, 23025, 23026, 23027, 23028, 23029, 23030, 23031, 23032, 23033, 23034, 23035, 23036, 23037, 23038, 23039, 23040, 23041, 23042, 23043, 23044, 23045, 23046, 23047, 23048, 23049, 23050, 23051, 23052, 23053, 23054, 23055, 23056, 23057, 23058, 23059, 23060, 23061, 23062, 23063, 23064, 23065, 23066, 23067, 23068, 23069, 23070, 23071, 23072, 23073, 23074, 23075, 23076, 23077, 23078, 23079, 23080, 23081, 23082, 23083, 23084, 23085, 23086, 23087, 23088, 23089, 23090, 23091, 23092, 23093, 23094, 23095, 23096, 23097, 23098, 23099, 23100, 23101, 23102, 23103, 23104, 23105, 23106, 23107, 23108, 23109, 23110, 23111, 23112, 23113, 23114, 23115, 23116, 23117, 23118, 23119, 23120, 23121, 23122, 23123, 23124, 23125, 23126, 23127, 23128, 23129, 23130, 23131, 23132, 23133, 23134, 23135, 23136, 23137, 23138, 23139, 23140, 23141, 23142, 23143, 23144, 23145, 23146, 23147, 23148, 23149, 23150, 23151, 23152, 23153, 23154, 23155, 23156, 23157, 23158, 23159, 23160, 23161, 23162,

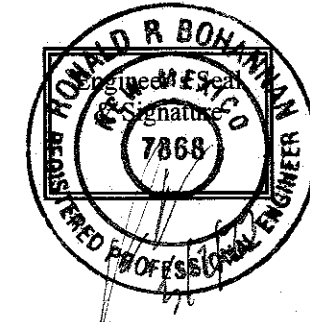
CITY OF ALBUQUERQUE, NEW MEXICO
MARCH, 2022



APPROVED RECORD DRAWINGS	
City Inspector	Daniel Padilla
Contractor	Insight Construction
Construction Engineer	David Bishop
Date	5/4/2023

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, **Ronald R. Bohannon**, of the firm of **Tierra West LLC**, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



SURVEYOR'S CERTIFICATION

I, BRIAN J. MARTINEZ, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORDED DRAWINGS.

Brian J. Martinez 1/11/23
BRIAN J. MARTINEZ, NMPS 18374



WATER AND SEWER AVAILABILITY STATEMENT #200820R

TIERRA WEST, LLC

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ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

[illegible]

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
4. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
5. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.
6. EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL THEN EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL THEN COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED. ANY DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY EXISTING UTILITIES IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
7. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
8. CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
10. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.

11. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.
12. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRANSPORTATION

1. ANY STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH THERMO-PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
2. REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
3. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
4. CURB AND GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH THE LINE AND GRADE OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
5. THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB AND GUTTER AND SIDEWALK.
6. CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.
7. AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPILLOVER OF ASPHALT OR TACK COAT. CARE MUST BE TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENTS; IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.
8. CONTRACTOR WILL ENSURE THE ASPHALT HAS A SMOOTH, UNIFORM EDGE WHEN REMOVING AND REPLACING CURB AND GUTTER. IF THE ASPHALT EDGE IS NOT SMOOTH AND UNIFORM, CONTRACTOR WILL SAW CUT AND REPLACE A ONE-FOOT STRIP OF ASPHALT ALONG THE FULL SECTION BEING REPLACED; REFER TO C.O.A. STANDARD DRAWING # 2465 WITH THE APPROPRIATE PAVING SECTION BASED ON ROADWAY CLASSIFICATION.

HYDROLOGY

1. ALL STORM DRAINS SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE PLANS.
2. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATION. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AND WITH CITY APPROVAL.

WATER & SEWER

1. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER COA STANDARD DRAWINGS 2460 AND 2461.
2. MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEURES.ASPX](http://abcwua.org/water_shut_off_and_turn_on_procedures.aspx)
4. PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900: DR18 REQUIREMENTS (6" - 12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6" - 48").
5. ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. THE JOINT RESTRAINT REQUIREMENTS SHOULD BE DELINEATED WITHIN A JOINT RESTRAINT TABLE.
6. ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING. EXCEPT WHEN PROFILED WITHIN A PROPOSED OR EXISTING STREET, WHERE STREET STATIONING SHALL GOVERN.
7. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465.
8. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9. THE CONTRACTOR SHALL INSTALL A 4" X 4" X5' POST AND EMS AT THE END OF EACH SANITARY SEWER SERVICE.
9. TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH WATER AUTHORITY DETAILS.
10. CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
11. AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.

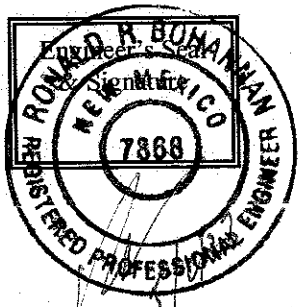
ALL DESIGNS AND CONSTRUCTION OF ANY UNDERGROUND UTILITIES SHALL COMPLY WITH ADMINISTRATIVE INSTRUCTION NO. 9 FOR WORK NEARBY OR AFFECTING SAN JUAN CHAMA TRANSMISSION LINES AND APPURTENANCES. INFORMATION SHALL BE PROVIDED TO THE WATER AUTHORITY ONE (1) MONTH IN ADVANCE OF THE CONSTRUCTION START DATE. INFORMATION CAN BE FOUND AT [HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEURES.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx)

OTHER COMMON NOTES

1. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
2. WHEN DISTURBING MORE THAN ¼ ACRES, CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
3. IN ADVANCE OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
4. PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
5. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
6. CONTRACTOR IS TO SUPPORT, PROTECT, AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
7. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
8. CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
9. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
10. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE ARRANGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING A DISPOSAL SITE AND HAUL THERETO.
11. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT (505) 272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, **Ronald R. Bohannan**, of the firm of **Tierra West, LLC**, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



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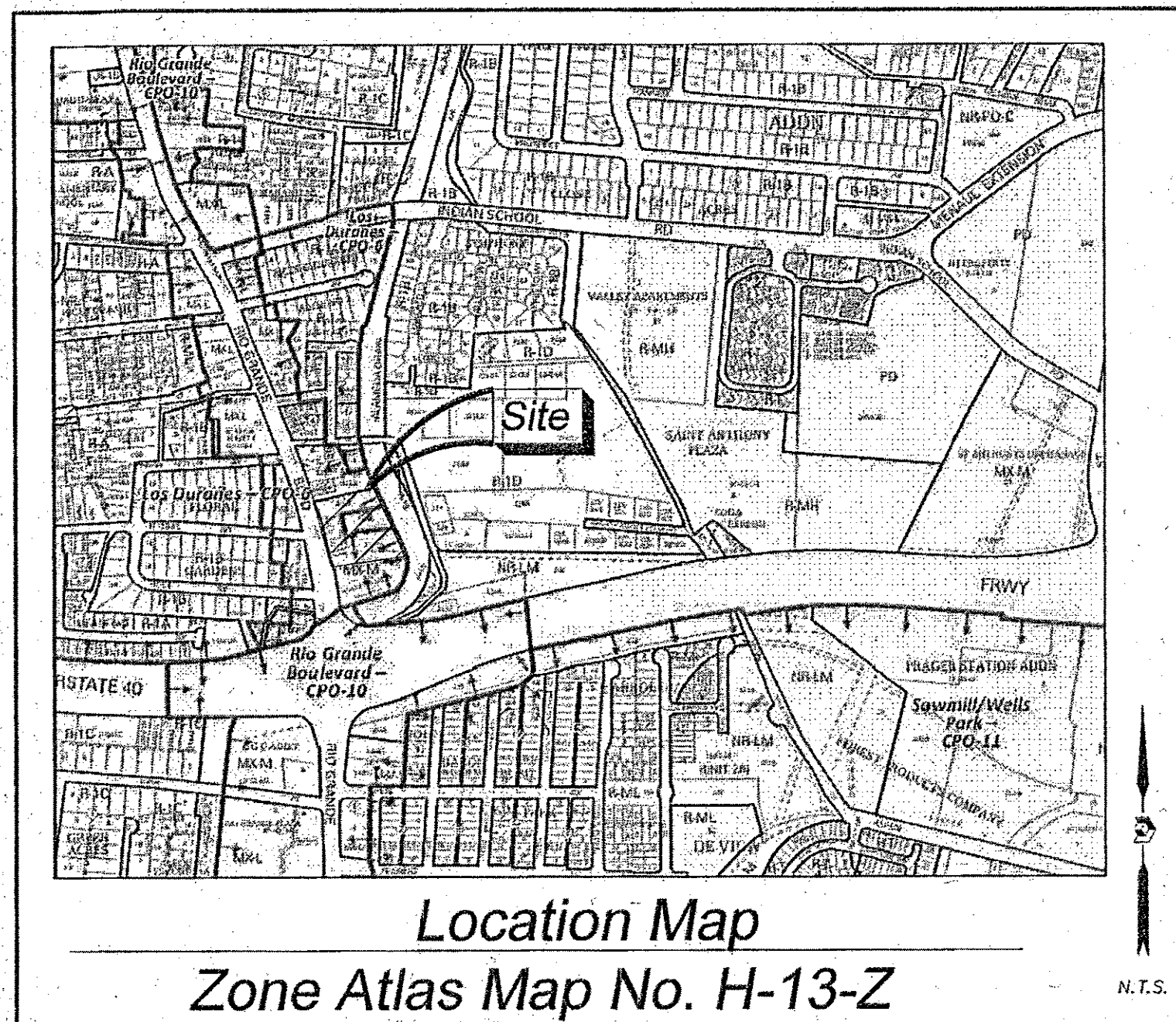
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **RIO GRANDE CROSSING WEST (SOUTH)**

GENERAL NOTES

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED May 13, 2022 DESIGN REVIEW COMMITTEE	APPROVED July 19, 2022 CITY ENGINEER		
LAST DESIGN UPDATE			

CITY PROJECT NO.	ZONE MAP NO.	SHEET
759483	H-13-Z	2 of 17



Location Map
Zone Atlas Map No. H-13-Z

Subdivision Data:

GROSS SUBDIVISION ACREAGE: 3.7102 ACRES±
ZONE ATLAS INDEX NO: H-13-Z
NO. OF TRACTS CREATED: 5
NO. OF LOTS CREATED: 0
MILES OF FULL-WIDTH STREETS CREATED: 0
DATE OF SURVEY: OCTOBER 19, 2018

Purpose of Plat

THE PURPOSE OF THIS PLAT IS TO CONSOLIDATE THE EXISTING TEN TRACTS INTO FIVE NEW TRACTS, TO GRANT EASEMENTS AND TO DEDICATE ADJACENT STREET RIGHT OF WAY

Notes:

1. PLAT SHOWS ALL EASEMENTS OF RECORD.
2. EASEMENT BEARINGS AND DISTANCES SHOWN HEREON ARE RECORD AND EASEMENTS HAVE BEEN ROTATED TO MATCH BASIS OF BEARINGS AND BOUNDARY UNLESS OTHERWISE INDICATED.

Solar Note:

NO PROPERTY WITHIN THE AREA OF REQUESTED FINAL ACTION SHALL AT ANY TIME BE SUBJECT TO A DEED RESTRICTION, COVENANT, OR BINDING AGREEMENT PROHIBITING SOLAR COLLECTORS FROM BEING INSTALLED ON BUILDINGS OR ERECTED ON THE LOTS OF PARCELS WITHIN THE AREA OF THIS PLAT.

Disclaimer

IN APPROVING THIS PLAT, PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM), QWEST CORPORATION D/B/A CENTURYLINK QC AND NEW MEXICO GAS COMPANY (NMGC) DID NOT CONDUCT A TITLE SEARCH OF THE PROPERTIES SHOWN HEREON. CONSEQUENTLY, PNM, QWEST CORPORATION D/B/A CENTURYLINK QC AND NMGC DO NOT WAIVE OR RELEASE ANY EASEMENT OR EASEMENT RIGHTS WHICH HAVE BEEN GRANTED BY PRIOR PLAT, REPLAT OR OTHER DOCUMENT AND WHICH ARE NOT SHOWN SPECIALLY DESCRIBED AND ON THIS PLAT.

Public Utility Easements

- 10' PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE COMMON JOINT USE OF:
- A. PUBLIC SERVICE COMPANY OF NEW MEXICO ("PNM"), A NEW MEXICO CORPORATION, (PNM ELECTRIC) FOR INSTALLATION, MAINTENANCE AND SERVICE OF OVERHEAD AND UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, AND OTHER EQUIPMENT AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICES.
 - B. NEW MEXICO GAS COMPANY FOR INSTALLATION, MAINTENANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICES.
 - C. QWEST CORPORATION D/B/A CENTURYLINK QC FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES.
 - D. CABLE TV AND COMMUNICATIONS FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE AND COMMUNICATION SERVICES.

INCLUDED IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE WITHIN THE EASEMENT CHANGE, REMOVE, REPLACE, MODIFY, RENEW, OPERATE AND MAINTAIN FACILITIES FOR PURPOSES DESCRIBED ABOVE, TOGETHER WITH FREE ACCESS TO, FROM AND OVER SAID EASEMENTS, WITH THE RIGHT AND PRIVILEGE OF GOING UPON, OVER AND ACROSS ADJOINING LANDS OF GRANTOR FOR THE PURPOSES SET FORTH HEREON AND WITH THE RIGHT TO UTILIZE THE RIGHT OF WAY AND EASEMENT TO EXTEND SERVICES TO CUSTOMERS OF GRANTEE, INCLUDING SUFFICIENT WORKING AREA SPACE FOR ELECTRIC TRANSFORMERS, WITH THE RIGHT AND PRIVILEGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSES SET FORTH HEREON. NO BUILDING, SIGN, POOL (ABOVEGROUND OR SUBSURFACE), HOT TUB, CONCRETE OR SOFT POOL, DECKING, OR OTHER STRUCTURE SHALL BE ERECTED OR CONSTRUCTED ON SAID EASEMENTS, NOR SHALL WELL BE DRILLED OR OPERATED THEREON. PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRICAL SAFETY CODE BY CONSTRUCTION OF POOLS, DECKING, OR ANY STRUCTURES ADJACENT TO OR NEAR EASEMENTS SHOWN ON PLAT.

EASEMENTS FOR ELECTRIC TRANSFORMER/SWITCHGEARS, AS INSTALLED, SHALL EXTEND TEN (10) FEET IN FRONT OF TRANSFORMER/SWITCHGEAR DOORS AND FIVE (5) FEET ON EACH SIDE.

Legal Description

SEE SHEET 4 OF 4

RECORDING STAMP

Free Consent and Dedication

THE REPLAT SHOWN HEREON IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER, SAID OWNER HEREBY DEDICATES AND GRANTS THE PERPETUAL DRAINAGE EASEMENTS AS DESCRIBED HEREON FOR CONVEYANCE OF STORM WATER RUNOFF AND CONSTRUCTING, MAINTAINING AND REPLACING DRAINAGE AND DETENTION FACILITIES, FOR USE BY THE CITY OF ALBUQUERQUE AND OWNERS OF THE PROPERTIES SERVED THEREBY. SAID OWNER DOES FURTHER DEDICATE THE AREA AS SHOWN FOR ADDITIONAL STREET RIGHT OF WAY ADJACENT TO RIO GRANDE BLVD AS SHOWN HEREON TO THE CITY OF ALBUQUERQUE IN FEE SIMPLY WITH WARRANTY COVENANTS. SAID OWNER HEREBY DEDICATES AND GRANTS THE ACCESS EASEMENTS AS DESCRIBED HEREON FOR USE BY OWNERS OF THE PROPERTIES SERVED THEREBY. SAID OWNER HEREBY DEDICATES AND GRANTS THE UTILITY EASEMENTS AS DESCRIBED HEREON FOR ABCWUA AND PUBLIC AND PRIVATE WATER, SEWER, GAS, ELECTRICAL POWER AND COMMUNICATION UTILITIES, INCLUDING BURIED AND/OR OVERHEAD UTILITIES AND INCLUDING INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTENANCE THEREOF AND THE RIGHT TO TRIM INTERFERING TREES, SHRUBS AND OBSTRUCTIONS. SAID OWNER HEREBY CERTIFIES THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED. SAID OWNERS(S) COLLECTIVELY WARRANT THAT THEY HOLD AMONG THEM COMPLETE AND INDEFEASIBLE TITLE IN FEE SIMPLE TO THE LAND SUBDIVIDED.

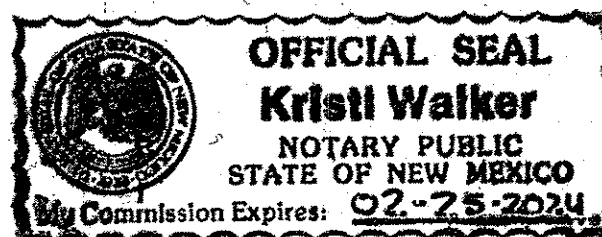
Edward T. Garcia 9/13/21
EDWARD T. GARCIA
MANAGING MEMBER
GARCIA REAL ESTATE INVESTMENTS, LLC.
OWNER TRACTS 230-A, 230-B, 230-C, 231-A-1, 231-A-2, 231-B-1, 231-B-2, 231-B-3, AND 234-A
Edward T. Garcia 9/13/21
EDWARD T. GARCIA
MANAGING MEMBER
G3 INVESTORS LLC,
OWNER TRACT A, LANDS OF HARRY J. GARCIA

Acknowledgment

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 13 DAY OF September, 2021 BY EDWARD T. GARCIA, MANAGING MEMBER, GARCIA REAL ESTATE INVESTMENTS, LLC.

BY *Kristl Walker* MY COMMISSION EXPIRES: 02-25-2024
NOTARY PUBLIC



Acknowledgment

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 13 DAY OF September, 2021 BY EDWARD T. GARCIA, MANAGING MEMBER, G3 INVESTORS, LLC.

BY *Kristl Walker* MY COMMISSION EXPIRES: 02-25-2024
NOTARY PUBLIC



Plat of
Tracts 1, 2, 3, 4 & 5
Rio Grande Crossing West
Town of Albuquerque Grant, Projected
Section 7, Township 10 North, Range 3 East, N.M.P.M.
City of Albuquerque, Bernalillo County, New Mexico
August 2021

Project No. PR-2020-004284

Application No. PS-2020-0076

Utility Approvals

PNM DATE
NEW MEXICO GAS COMPANY DATE
QWEST CORPORATION D/B/A CENTURYLINK QC DATE

COMCAST DATE

City Approvals

Loren N. Risenhoover P.S. 9/29/2021
CITY SURVEYOR DATE

TRAFFIC ENGINEERING, TRANSPORTATION DEPARTMENT DATE

A.B.C.W.U.A. DATE

PARKS AND RECREATION DEPARTMENT DATE

AMAFCA DATE

CITY ENGINEER DATE

DRB CHAIRPERSON, PLANNING DEPARTMENT DATE

CODE ENFORCEMENT DATE

MIDDLE RIO GRANDE CONSERVANCY DISTRICT DATE

Surveyor's Certificate

I, LARRY W. MEDRANO, A REGISTERED NEW MEXICO PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND OF THE MINIMUM STANDARDS FOR LAND SURVEYS AS ADOPTED BY THE N.M. BOARD OF LICENSURE FOR ENGINEERS AND SURVEYORS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT NO ENCROACHMENTS EXIST EXCEPT AS NOTED ABOVE AND THAT ALL IMPROVEMENTS ARE SHOWN IN THEIR CORRECT LOCATION RELATIVE TO RECORD BOUNDARIES AS LOCATED BY THIS SURVEY.

Larry W. Medrano 09/14/2021
LARRY W. MEDRANO
N.M.P.S. No. 11993



FOR REFERENCE ONLY

COORDINATE AND DIMENSION INFORMATION				PLSS INFORMATION				PROPERTY INFORMATION				PROJECT INFORMATION			
STATE PLANE ZONE: NM-C	GRID/GROUND COORDINATES: GRID	TYPE: STANDARD		LAND GRANT TOWN OF ALBUQUERQUE GRANT				PROPERTY OWNERS GARCIA REAL ESTATE INVESTMENTS, LLC G3 INVESTORS, LLC				CREW/TECH: MT	DATE OF SURVEY 08/23/2018		
HORIZONTAL DATUM: NAD83	VERTICAL DATUM: NAVD88	ROTATION ANGLE: 0° 00' 00.00" YES	MATCHES DRAWING UNITS	SECTION 7	TOWNSHIP 10 NORTH	RANGE 3 EAST	MERIDIAN NMPM	SUBDIVISION NAME RIO GRANDE CROSSING WEST				DRAWN BY: JK	CHECKED BY: LM		
CONTROL USED: ALBUQUERQUE GEODETIC REFERENCE SYSTEM		BASE POINT FOR SCALING AND/OR ROTATION: N = 0 E = 0		CITY ALBUQUERQUE	COUNTY BERNALILLO	STATE NM		UPC 101305912918532303 101305913015732301 (TRACT A)				PSI JOB NO. 204073P	SHEET NUMBER 1 OF 4		
COMBINED SCALE FACTOR: GRID TO GROUND: 1.0003153689 GROUND TO GRID: 0.9996847305		DISTANCE ANNOTATION: GROUND BEARING ANNOTATION: GRID	ELEVATION TRANSLATION: ±0.00'												

PRECISION
SURVEYS, INC.

OFFICE LOCATION:
9200 San Mateo Boulevard, NE
Albuquerque, NM 87113
505.856.5700 PHONE
505.856.7900 FAX

Curve Table

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	18.97'	13.82'	13.52'	N 09°28'27" E	41°44'38"
C2	19.53'	19.02'	18.27'	N 45°53'08" W	55°47'45"
C3	415.64'	109.81'	109.50'	S 78°49'58" W	15°08'30"
C4	177.27'	33.70'	33.74'	S 69°18'20" W	10°55'20"
C5	421.62'	32.48'	32.48'	N 68°03'05" E	4°24'32"
C6	423.54'	108.51'	108.21'	N 78°34'34" E	14°44'42"

Line Table

LINE	BEARING	DISTANCE
L1	N 66°48'14" E	13.12
L2	S 66°12'35" W	9.19
L3	S 22°16'55" E	10.55
L4	S 66°19'57" W	145.59
L5	N 16°18'24" W	9.34
L6	N 66°19'57" E	146.06

Plat of
Tracts 1, 2, 3, 4 & 5
Rio Grande Crossing West
Town of Albuquerque Grant, Projected
Section 7, Township 10 North, Range 3 East, N.M.P.M.
City of Albuquerque, Bernalillo County, New Mexico
August 2021

RECORDING STAMP

See sheets 3 and 4 for New Easements

Legend

- N 90°00'00" E MEASURED BEARING AND DISTANCES
(N 90°00'00" E)
○ FOUND AND USED MONUMENT AS DESIGNATED
● DENOTES NO. 5 REBAR WITH PINK PLASTIC CAP "PS 11983" SET THIS SURVEY
△ FOUND MONUMENT FROM AGS MONUMENT AS DESIGNATED

TRACT 223-D
MRGCD MAP 35
(DEED 11/15/1923, OLD BOOK 74, PAGE 334)

Saiz Road, S.W.

M.R.G.C.D. ALAMEDA DRAIN
(PROJECT NO. A302, SHEET 3)
(R.O.W. WIDTH VARIES)

TRACT 2
RIO GRANDE CROSSING EAST
(09/27/2018, 2018C-125)

TRACT 1
RIO GRANDE CROSSING EAST
(09/27/2018, 2018C-125)

FOUND NO. 4 REBAR WITH
YELLOW PLASTIC CAP "PS 11983"

FOUND PK NAIL WITH
BRASS TAG "PS 11463"

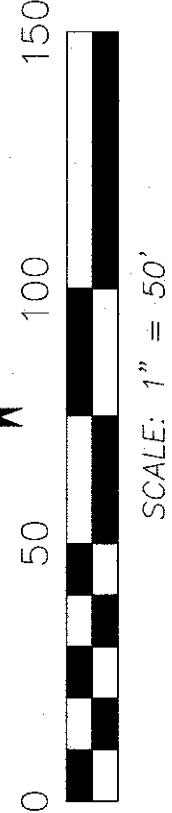
AGS MONUMENT "B-H13"
(FOUND IN PLACE)
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-N.A.D. 1983)
E=1,513,953.442 US SURVEY FEET
N=1,514,346.572 US SURVEY FEET
PUBLISHED EL=4963.168 US SURVEY FT (NAVD 1988)
GROUND TO GRID FACTOR=0.999894701
DELTA ALPHA ANGLE=-0°14'32.76"

Floral Road, N.W.
(40' PUBLIC R.O.W.)

AGS MONUMENT "B-H13"
(FOUND IN PLACE)
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-N.A.D. 1983)
E=1,513,953.442 US SURVEY FEET
N=1,514,346.572 US SURVEY FEET
PUBLISHED EL=4963.168 US SURVEY FT (NAVD 1988)
GROUND TO GRID FACTOR=0.999894701
DELTA ALPHA ANGLE=-0°14'32.76"

Rio Grande Boulevard, N.W.
(80' PUBLIC R.O.W.)

Rose Avenue, N.W.
(40' PUBLIC R.O.W.)



Reference Documents Used:

1. TR. 223-E-2, WARRANTY DEED (05/28/2019, DOC. NO. 2019043595)
2. TR. 223-E-3, WARRANTY DEED (02/02/2005, BK. A91, PG. 6223, DOC. NO. 200516282)
3. TR. 223-E-5, M.R.G.C.D. PROPERTY MAP 35 (8/30/1948)
4. TR. 223-E-6 & TR. 223-E-7, WARRANTY DEED (07/14/2009, DOC. NO. 2009078853)
5. TR. 223E8 WARRANTY DEED (02/02/2005, BK. A91, PG. 6223, DOC. NO. 200516282)
6. TR. 230-A, TR. 231-A-1, TR. 231-A-2, TR. 230-B, TR. 232-B-2, TR. 231-B-1, TR. 231-B-3 & TR. 234-A, SPECIAL WARRANTY DEED (12/26/2012, DOC. NO. 2012136117)
7. TRACT B, LANDS OF RAMONA ZESIGER WARRANTY DEED (05/28/2019, DOC. NO. 2019043595)

Interstate 40 Ramp
FOR REFERENCE ONLY

PROJECT INFORMATION		DATE OF SURVEY
CREW/TECH:	MT	10/19/2018
DRAWN BY:	JK	CHECKED BY:
		LM
PSI JOB NO.	204073P	SHEET NUMBER
		2 OF 4

OFFICE LOCATION:
9200 San Mateo Boulevard, NE
Albuquerque, NM 87113

505.856.5700 PHONE
505.856.7900 FAX



Easement Line Table

LINE	BEARING	DISTANCE
EL1	N 05°49'53" W	17.65'
EL2	S 22°04'16" E	3.97'
EL3	N 67°45'32" E	1.68'

Easement Line Table

RECORDING STAMP

NO FENCE, WALL, PLANTING, BUILDING OR OTHER OBSTRUCTION MAY BE PLACED OR MAINTAINED IN EASEMENT AREA WITHOUT APPROVAL OF THE CITY ENGINEER OF ALBUQUERQUE. THE CITY ENGINEER OF ALBUQUERQUE, HEREIN REFERRED TO AS THE CITY ENGINEER, SHALL BE THE DUTY OF THE LOT OWNERS OF THIS SUBDIVISION TO MAINTAIN SAID EASEMENT AREA WITHOUT THE APPROVAL OF THE CITY ENGINEER IN ACCORDANCE WITH STANDARDS PRESCRIBED BY THE CITY OF ALBUQUERQUE. THE CITY SHALL HAVE THE RIGHT TO ENTER PERIODICALLY TO INSPECT THE FACILITIES IN THE EVENT SAID LOT OWNERS FAIL TO ADEQUATELY AND PROPERLY MAINTAIN DRAINAGE EASEMENT AND FACILITIES. AT ANY TIME FOLLOWING FIFTEEN (15) DAYS WRITTEN NOTICE TO SAID LOT OWNERS, THE CITY MAY ENTER UPON SAID AREA, PERFORM SAID MAINTENANCE, AND THE COST OF PERFORMING SAID MAINTENANCE SHALL BE PAID BY APPLICABLE LOT OWNERS PROPORTIONATELY ON THE BASIS OF LOT OWNERSHIP. IN THE EVENT LOT OWNERS FAIL TO PAY THE COST OF MAINTENANCE WITHIN THIRTY (30) DAYS AFTER DEMAND FOR PAYMENT MADE BY THE CITY, THE CITY MAY FILE A LIEN AGAINST ALL LOTS IN THE SUBDIVISION FOR WHICH PROPORTIONATE PAYMENT HAS NOT BEEN MADE. THE OBLIGATIONS IMPOSED HEREIN SHALL BE BINDING UPON THE OWNER, HIS HEIRS, AND ASSIGNS AND SHALL RUN WITH ALL LOTS WITHIN THIS SUBDIVISION.

Saiz Road, S.W.
(AS SHOWN ON NEW MEXICO STATE
HIGHWAY COMMISSION RIGHT-OF-
MAP DATED JULY 24, 1975
(1-040-3 (27) 155), AND MIDD
RIO GRANDE CONSERVANCY
DISTRICT PROPERTY MAP 35.)

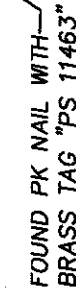
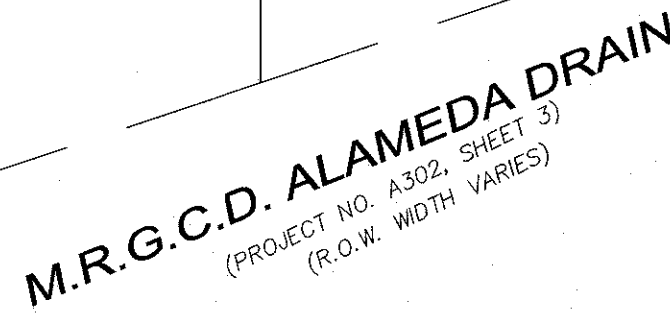
N 90°00'00" E MEASURED BEARING AND DISTANCES
(N 90°00'00" E)

RECORD BEARINGS AND DISTANCES
FOUND AND USED MONUMENT
AS DESIGNATED

● DENOTES NO. 5 REBAR WITH PINK
PLASTIC CAP "PS 11993" SET THIS SURVEY

● FOUND ALUMINUM AGPS MONUMENT
AS DESIGNATED

△



Floral Road, N.W.

Rio Grande Boulevard, N.W.



Rose Avenue, N.W.

FOUND NO. 4 REBAR W/
PLASTIC CAP "DC 11463"

Row	Width	Varies
1	10	10
2	10	10
3	10	10
4	10	10
5	10	10
6	10	10
7	10	10
8	10	10
9	10	10
10	10	10
11	10	10
12	10	10
13	10	10
14	10	10
15	10	10
16	10	10
17	10	10
18	10	10
19	10	10
20	10	10
21	10	10
22	10	10
23	10	10
24	10	10
25	10	10
26	10	10
27	10	10
28	10	10
29	10	10
30	10	10
31	10	10
32	10	10
33	10	10
34	10	10
35	10	10
36	10	10
37	10	10
38	10	10
39	10	10
40	10	10
41	10	10
42	10	10
43	10	10
44	10	10
45	10	10
46	10	10
47	10	10
48	10	10
49	10	10
50	10	10
51	10	10
52	10	10
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87	10	10
88	10	10
89	10	10
90	10	10
91	10	10
92	10	10
93	10	10
94	10	10
95	10	10
96	10	10
97	10	10
98	10	10
99	10	10
100	10	10

OFFICE LOCATION:
9200 San Mateo Boulevard, NE
Albuquerque, NM 87113

505.856.5700 **PHONE**
505.856.7000 **FAX**

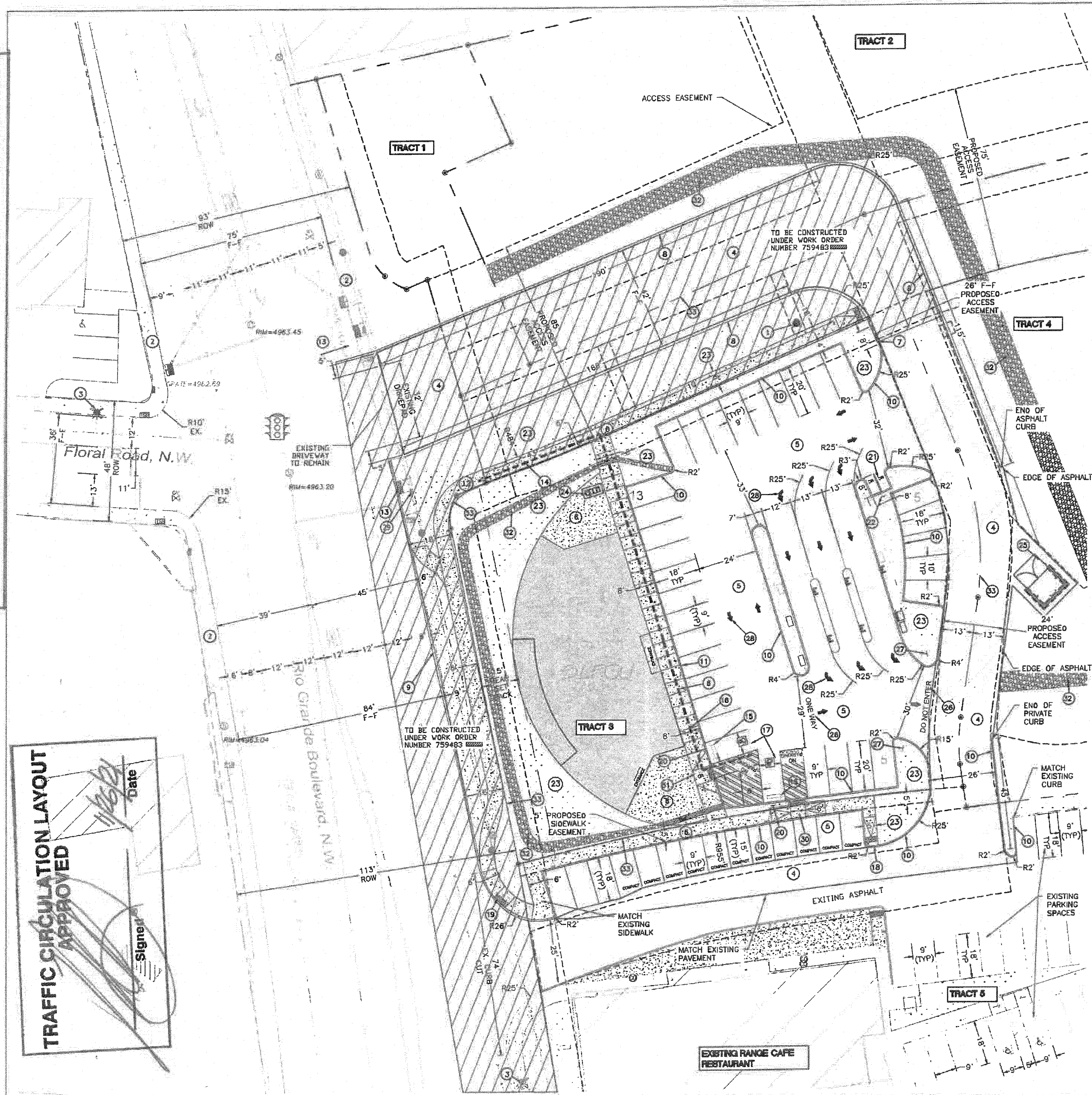
505.856.5700 PHONE FAX
505.856.7000 FAX

CONDITION OF FINAL C.O. APPROVAL:
N.O. CPN 759483 BE COMPLETED, &
APPROVED/ACCEPTED

TRAFFIC CIRCULATION LAYOUT
APPROVED

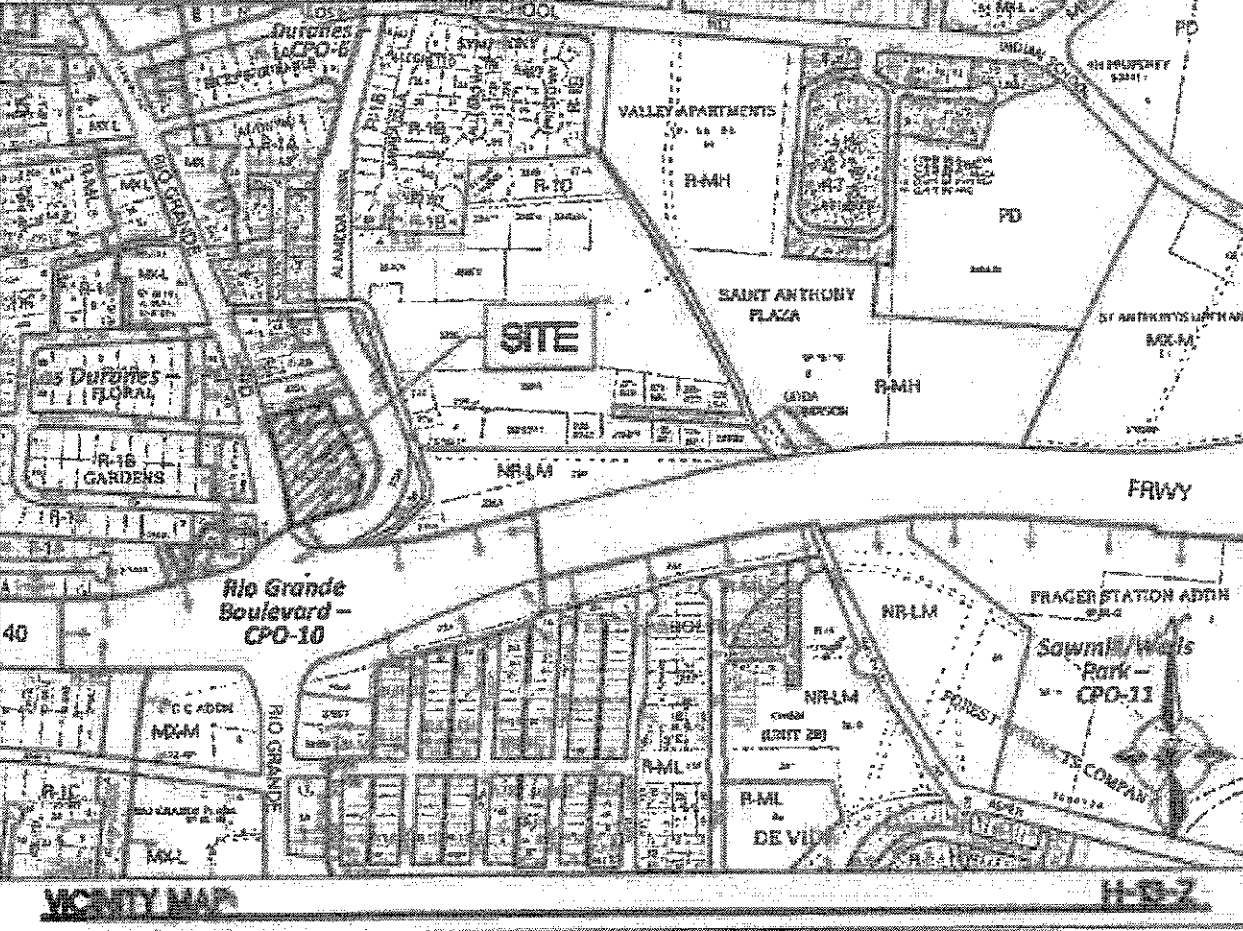
Date

Signer



- LEGEND**
- ASPHALT CURB & GUTTER
 - CONC. CURB & GUTTER
 - EASEMENT
 - PROPOSED PROPERTY LINE
 - PROPOSED BUILDING
 - LANDSCAPING
 - EXISTING LANE
 - EXISTING STRIPING
 - EXISTING CURB & GUTTER
 - EXISTING BOUNDARY LINE
 - EXISTING SIDEWALK
 - EXISTING OVERHEAD LINE
 - EXISTING HYDRANT
 - EXISTING SD INLET
 - EXISTING POWER POLE
 - EXISTING TRAFFIC SIGNAL BOX
 - EXISTING TRAFFIC SIGNAL
 - PROPOSED HYDRANT

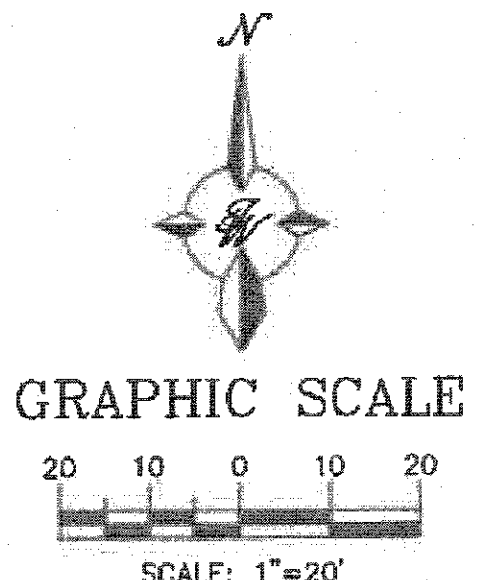
- KEYED NOTES**
- PROPOSED FIRE HYDRANT
 - EXISTING SIDEWALK
 - EXISTING FIRE HYDRANT
 - HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL, SHEET C5.1)
 - SITE ASPHALT PAVEMENT (SEE DETAIL, SHEET C5.1)
 - SIDEWALK PER COA STD DWG #2430 (SEE DETAIL, SHEET C5.1)
 - 6" C & G TO 6" ASPHALT CURB TRANSITION
 - TEMPORARY ASPHALT 6" C & G PER COA STD DWG #2415C (SEE DETAIL, SHEET C5.1)
 - STD 8" CURB AND GUTTER PER COA STD DWG #2415A (SEE DETAIL, SHEET C5.1)
 - 6" PRIVATE CURB AND GUTTER (SEE DETAIL, SHEET C5.1)
 - 6" CONCRETE TURN DOWN CURB (SEE DETAIL, SHEET C5.1)
 - PUBLIC SIDEWALK PER COA STD DWG #2430
 - ADA DETECTABLE WARNING SURFACE PER COA STD DWG #2446
 - ADA PUBLIC ACCESSIBLE PATHWAY
 - WHEEL STOP (SEE DETAIL, SHEET C5.2)
 - ADA PARKING ACCESSIBLE PATHWAY
 - ADA PARKING PER ADA REQUIREMENTS (SEE DETAIL, SHEET C5.2)
 - DETAIL C-ADA CURB RAMP COA DWG 2443 (SEE DETAIL, SHEET C5.2)
 - ADA CORNER CURB RAMP PER COA CURRENT STD DWG #2441 AND SHALL HAVE TRUNCATED DOMES INSTALLED (SEE DETAIL, SHEET C5.2)
 - ADA NO PARKING SIGN (SEE DETAIL, SHEET C5.2)
 - MOTORCYCLE PARKING ADD PAINT LABEL PER COA CODE
 - MOTORCYCLE PARKING SIGN (SEE DETAIL, SHEET C5.3)
 - LANDSCAPE AREA
 - BIKE RACK (SEE DETAIL, SHEET C5.3)
 - REFUSE OUMPSTER (SEE DETAIL, SHEET C5.3)
 - "ONE WAY" & "DO NOT ENTER" STRIPING (SEE DETAIL, SHEET C5.3)
 - "DO NOT ENTER" SIGNAGE (SEE DETAIL, SHEET C5.3)
 - TRAFFIC ARROWS (SEE DETAIL, SHEET C5.3)
 - EXISTING TRAFFIC SIGNAL
 - DETAIL A PARALLEL CURB RAMP PER COA STD DWG #2443 AND SHALL HAVE TRUNCATED DOMES INSTALLED (SEE DETAIL, SHEET C5.2)
 - FLARED CURB HC RAMP SEE DETAIL SHEET C5.1 AND SHALL HAVE TRUNCATED DOMES INSTALLED (SEE DETAIL, SHEET C5.1)
 - ROCK SWALE (REFER GRADING PLAN SHEETS)
 - PROPERTY LINE



SITE DATA

SANDIA LABORATORY FEDERAL CREDIT UNION (SLFCU)	
IDO ZONING:	MX-M
PROPOSED USAGE:	BUSINESS
LOT AREA:	40,530 SF (0.93 ACRE)
BUILDING AREA:	4,400 SF
PARKING: SPACES REQUIRED:	13 (3 SPACES/ 1,000 SF)
PARKING: SPACES PROVIDED:	32 (INCLUDES HC PARKING)
HC PARKING: SPACES REQUIRED:	2
HC PARKING: SPACES PROVIDED:	2 (1 VAN ACCESSIBLE)
MC PARKING: SPACES REQUIRED:	1
(1 PER 1-25 REQUIRED PARKING SPACES)	
MC PARKING: SPACES PROVIDED:	2
BICYCLE PARKING: SPACES REQUIRED:	3
(3 SPACES OR 10% OF REQUIRED PARKING)	
BICYCLE PARKING: SPACES PROVIDED:	4
LANDSCAPE AREA PROVIDED:	7400 SF (18%)

- NOTES**
- LANDSCAPING AND SIGNAGE WILL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. THEREFORE, SIGNS, WALLS, TREES AND SHRUBBERY BETWEEN 3 AND 8 FEET TALL (AS MEASURED FROM THE GUTTER PAN) WILL NOT BE ACCEPTABLE IN THE CLEAR SIGHT TRIANGLE
 - ALL CONFLICTING STRIPING SHALL BE ERADICATED BY WATER BLASTING PER SECTION 443 OF THE COA STANDARD SPECIFICATIONS (LATEST EDITION).
 - ALL SIGNS TO BE COVERED WITH ANTI GRAFFITI COATING.
 - ALL SIGNS AND STRIPING SHALL BE MADE IN ACCORDANCE WITH THE MUTCD (CURRENT EDITION) SPECIFICATIONS AND COA STANDARDS.
 - ALL SYMBOLS AND ARROWS STRIPING TO BE PREFORMED HOT APPLIED THERMOPLASTIC TAPE.
 - ALL LANE OR LANES STRIPING TO BE PREFORMED HOT APPLIED THERMOPLASTIC TAPE.
 - PAINT ALL MEDIAN CURB AND MEDIAN NOSE YELLOW (TYP) PER COA STANDARD SPECIFICATIONS.
 - ALL IMPROVEMENTS LOCATED IN THE RIGHT OF WAY MUST BE INCLUDED ON THE WORK ORDER
 - ALL BROKEN OR CRACKED SIDEWALK MUST BE REPLACED WITH SIDEWALK AND CURB AND GUTTER PER COA STANDARDS

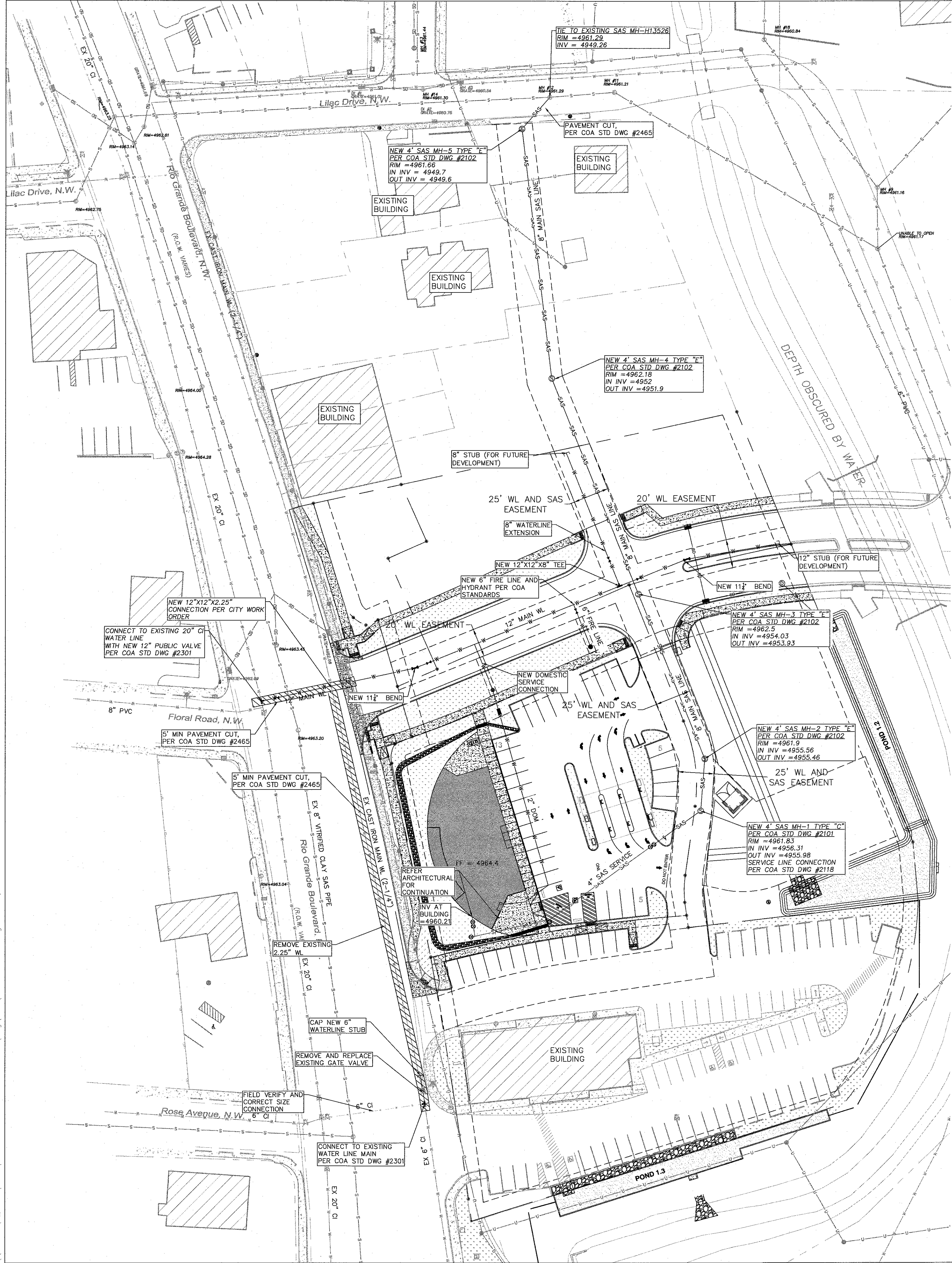


FOR REFERENCE ONLY

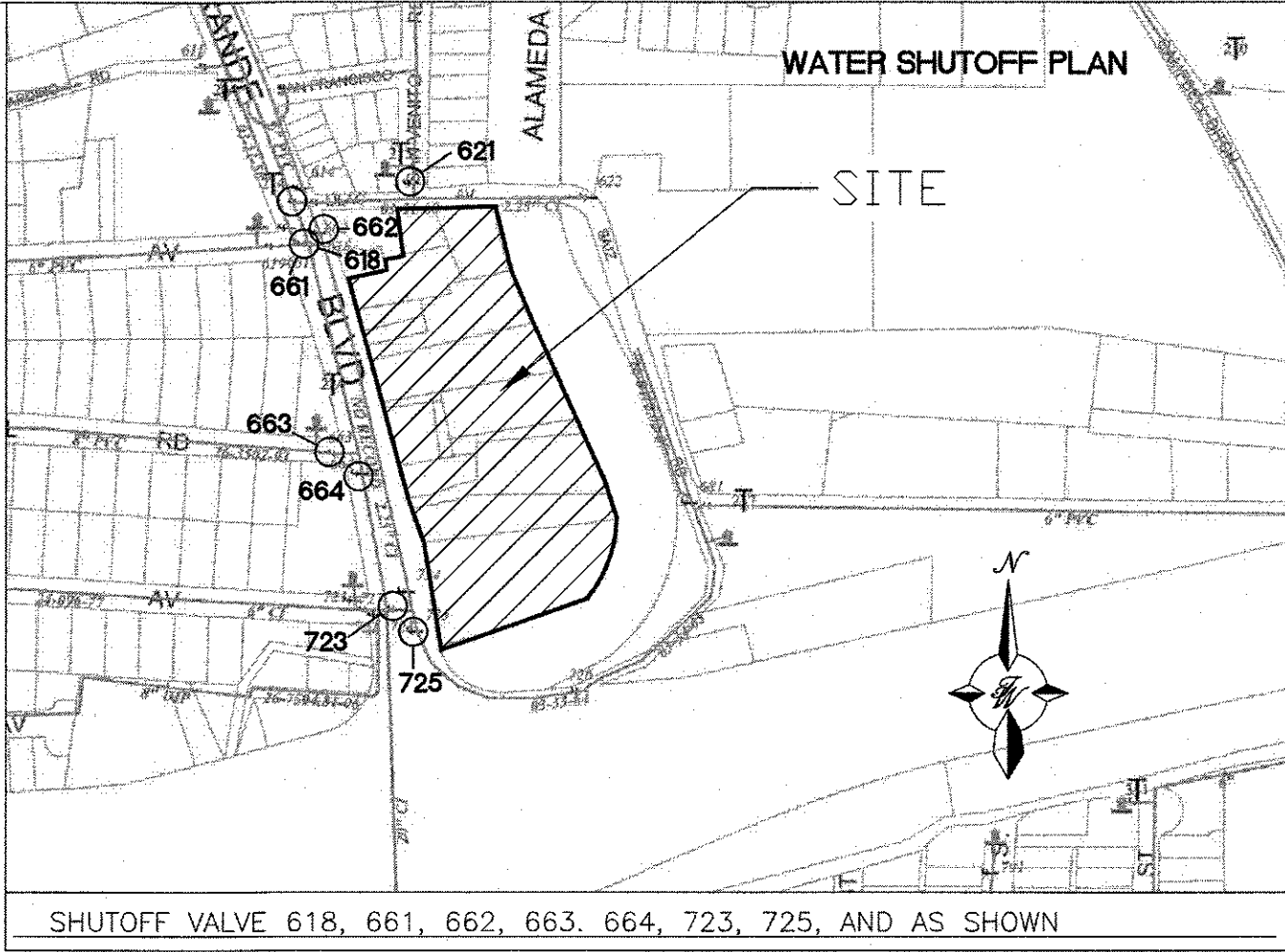
	SANDIA LAB FCU	DRAWN BY	LN
	RIO GRANDE + I-40	DATE	11-19-2021
	TRAFFIC CIRCULATION LAYOUT	DRAWING	2012100-SP
	TIERRA WEST, LLC	SHEET #	C1
5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrowestllc.com		JOB #	2012100

ALL WHEELCHAIR RAMPS LOCATED
WITHIN THE PUBLIC RIGHT OF WAY
MUST HAVE TRUNCATED DOMES.

H13-D109



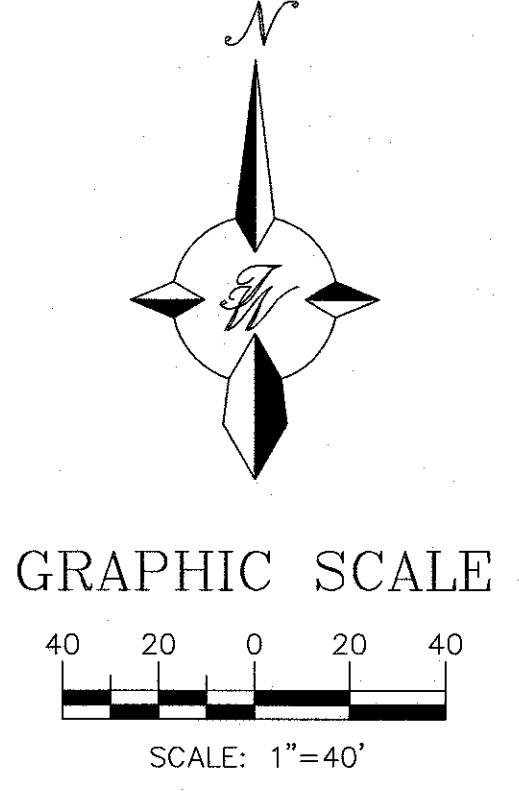
LEGEND	
	BOUNDARY LINE
	EASEMENT
	NEW SIDEWALK
	NEW WATERLINE
	NEW SANITARY SEWER LINE
	EXISTING BOUNDARY LINE
	EXISTING BUILDING
	EXISTING SIDEWALK
	EXISTING OVERHEAD UTILITIES
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM SEWER LINE
	SD MANHOLE
	SD INLET
	SAS MANHOLE
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
	WATER METER
	NEW GATE VALVE
	EXISTING WATER VALVE
	CLEAN OUT



WATER SHUTOFF NOTES

THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx).

- GENERAL UTILITY NOTES**
1. ALL WATER AND SEWER UTILITY WORK TO BE DONE IN ACCORDANCE WITH COA STANDARDS AND SPECIFICATIONS LATEST EDITION.
 2. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
 3. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
 4. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
 5. ALL PLUMBING PIPE MATERIAL TO BE USED PER UPC.
 6. FIRE LINE AND DOMESTIC WATERLINE MUST HAVE BACKFLOW PREVENTORS PER UPC. IF BACKFLOW PREVENTOR IS INSTALLED EXTERIOR OF BUILDING A HOT BOX SHALL BE INSTALLED AND USED.
 7. ALL EX. SD INLETS AND MH SHALL HAVE CONCRETE COLLARS POURED AND BE ADJUSTED TO FINISHED GRADE.
 8. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
 9. ALL UTILITY DISTANCES SHOWN ARE FOR REFERENCE ONLY.
 10. PNM WILL REVIEW ALL TECHNICAL NEEDS, ISSUES AND SAFETY CLEARANCES FOR ITS ELECTRIC POWER SYSTEMS. ANY EXISTING AND PROPOSED PUBLIC UTILITY EASEMENTS SHALL BE INDICATED ON THE SITE PLAN UTILITY SHEET PRIOR TO DRB REVIEW. PNM'S STANDARD FOR PUBLIC UTILITY EASEMENTS IS 10 FEET IN WIDTH TO ENSURE ADEQUATE, SAFE CLEARANCES.
 11. SCREENING SHALL BE DESIGNED TO ALLOW FOR ACCESS TO UTILITY FACILITIES. IT IS NECESSARY TO PROVIDE ADEQUATE CLEARANCE OF TEN FEET SURROUNDING ALL GROUND-MOUNTED UTILITIES FOR SAFE OPERATION, MAINTENANCE AND REPAIR PURPOSES.
 12. PRIVATE FIRE HYDRANTS INDICATED IN THE UTILITY PLAN, SHALL BE PAINTED SAFETY ORANGE.

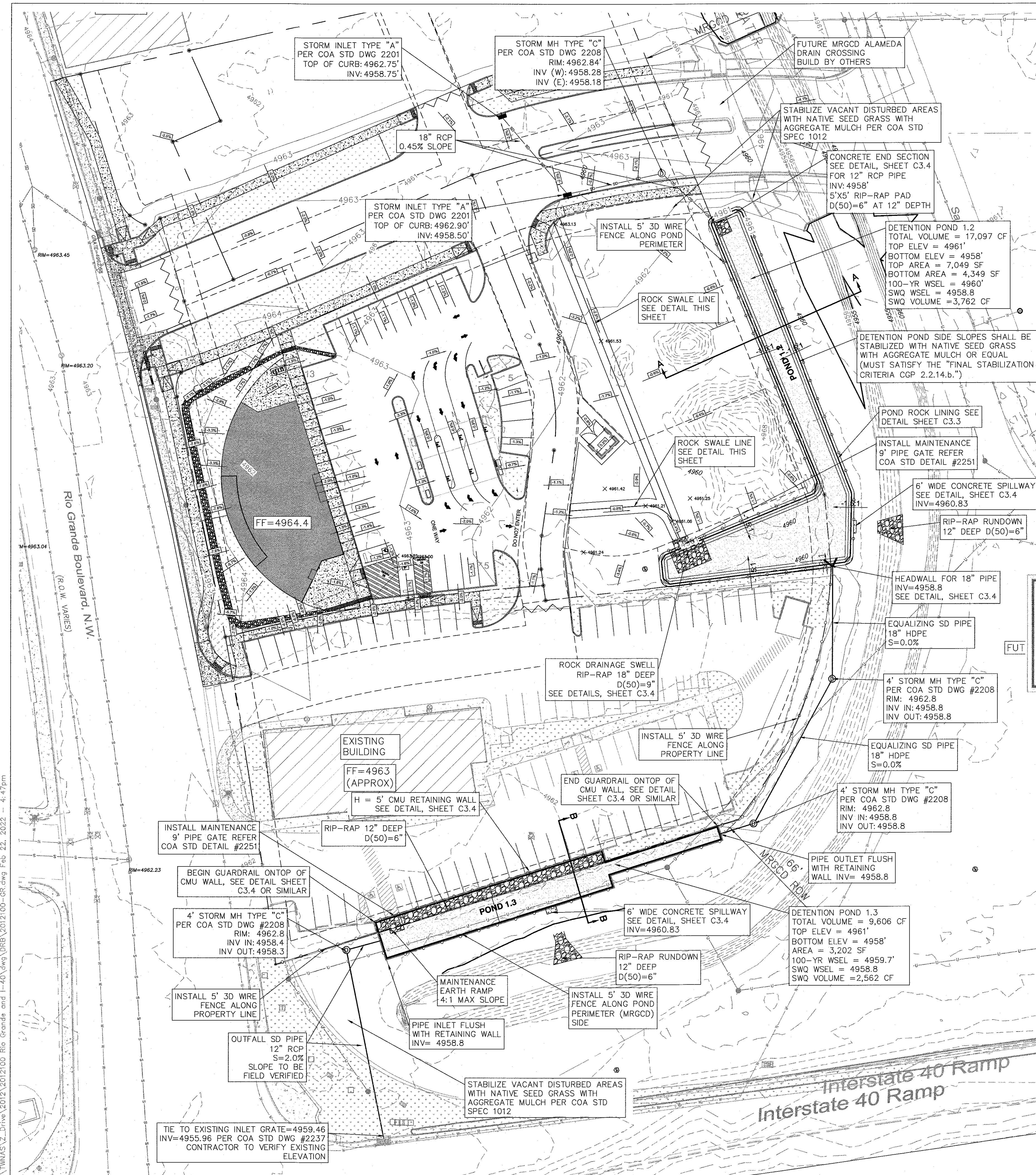


FOR REFERENCE ONLY

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

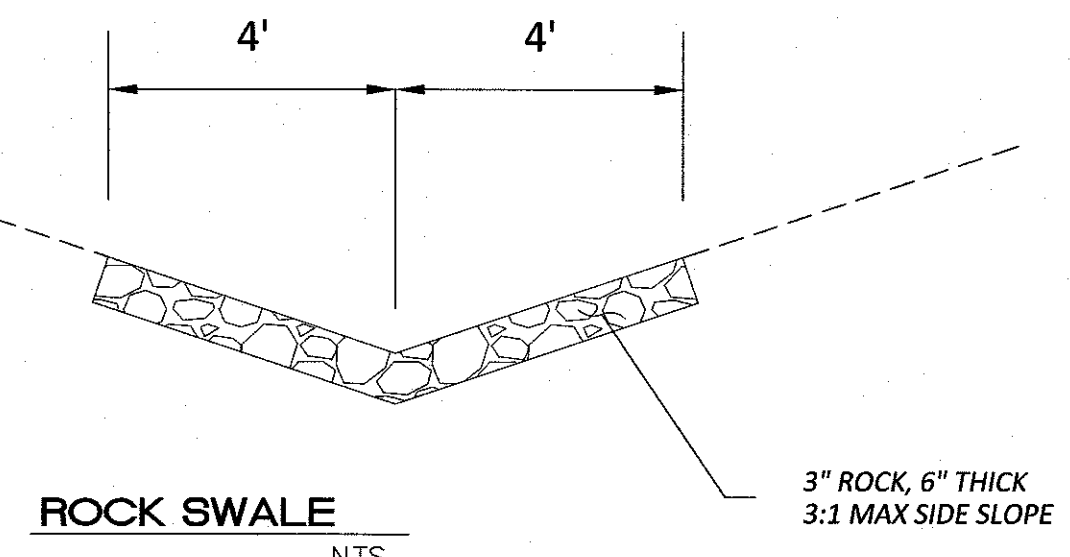
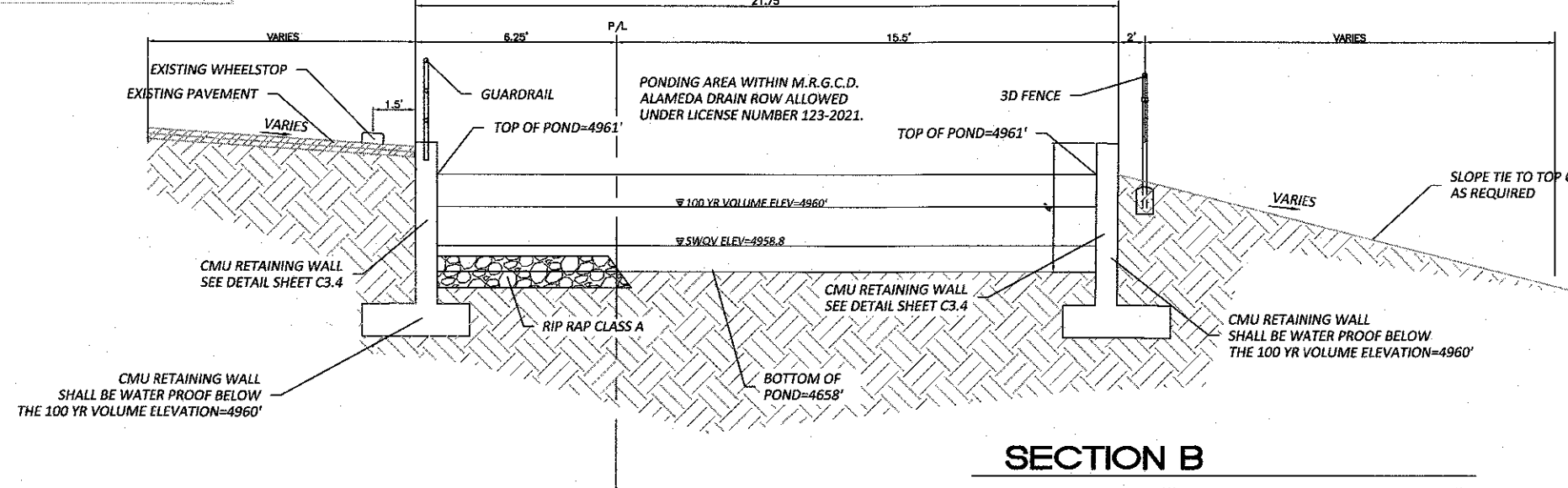
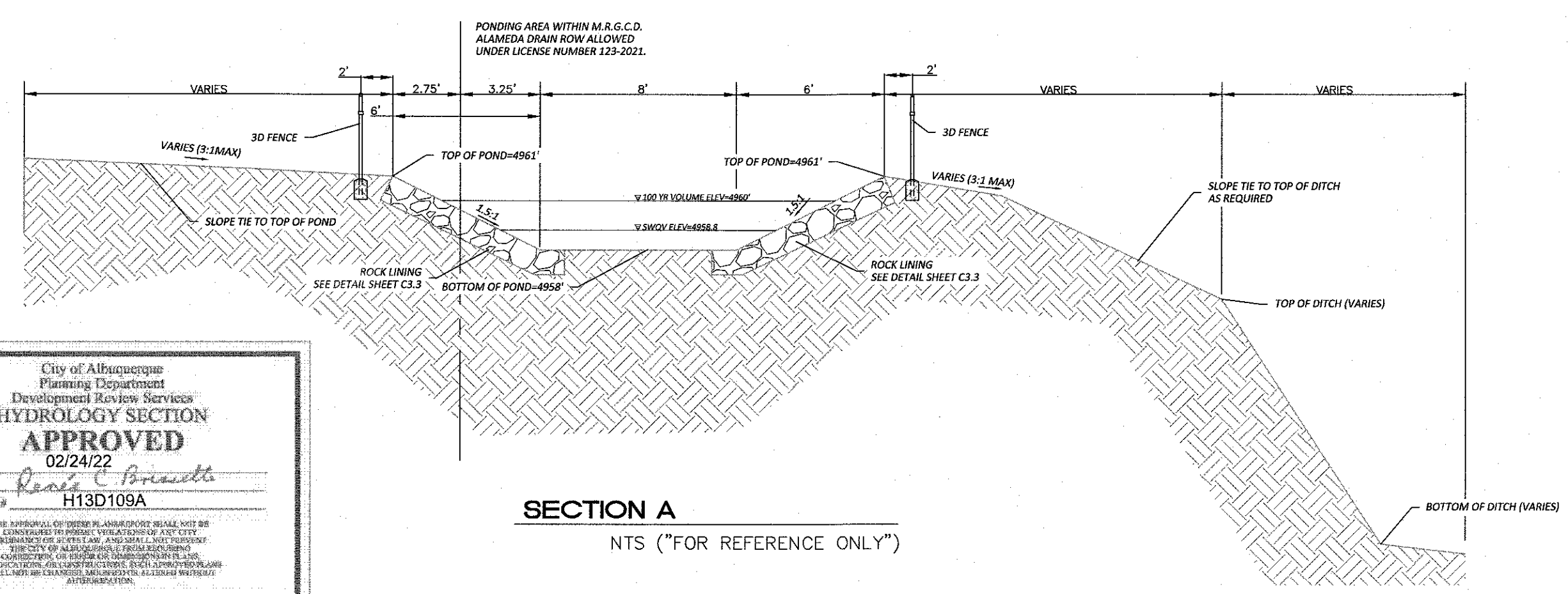
	SANDIA LAB FCU RIO GRANDE + I-40		DRAWN BY LN
	MASTER UTILITY PLAN		DATE 03-11-2022
	 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com		DRAWING 2012100-MUE
	03/22/2022		SHEET # C4
RONALD R. BOHANNAN P.E. #7868		JOB # 2012100	



- NOTICE TO CONTRACTORS**
1. PRIOR TO ANY WORK WITHIN THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) RIGHT-OF-WAY, AN NMDOT PERMIT WILL BE REQUIRED.
 2. CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
 3. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
 4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
 5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR (505) 260-1990) FOR THE LOCATION OF EXISTING UTILITIES.
 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 7. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
 8. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
 9. WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS.
 10. CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.
- EROSION CONTROL NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING ROADWAY.
 3. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
 4. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.
- NOTE:**
1. REFERENCE GEOTECHNICAL REPORT FOR CONSTRUCTION REQUIREMENTS/MINIMUMS
 2. REFERENCE LANDSCAPE PLAN FOR FINAL STABILIZATION REQUIREMENTS.

- LEGEND**
- CURB & GUTTER
 - - - BOUNDARY LINE
 - - - 3D FENCE
 - - - EASEMENT
 - - - SIDEWALK
 - - - EXISTING CURB & GUTTER
 - - - EXISTING BOUNDARY LINE
 - - - EXISTING SIDEWALK
 - x 5048.25 PROPOSED SPOT ELEVATION
 - FLOW ARROW
 - ~ WATER BLOCK
 - CMU RETAINING WALL
 - GRAVEL MULCH
 - CONTOUR MAJOR
 - 5011 CONTOUR MINOR
 - - - EXISTING CONTOUR MAJOR
 - - - EXISTING CONTOUR MINOR
 - x 5048.25 EXISTING SPOT ELEVATION
- SPOT ELEVATION LEGEND**
- FL=FLOW LINE
TS=TOP OF SIDEWALK
TC=TOP OF CURB

SPOT ELEVATION NOTE:
ALL SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.



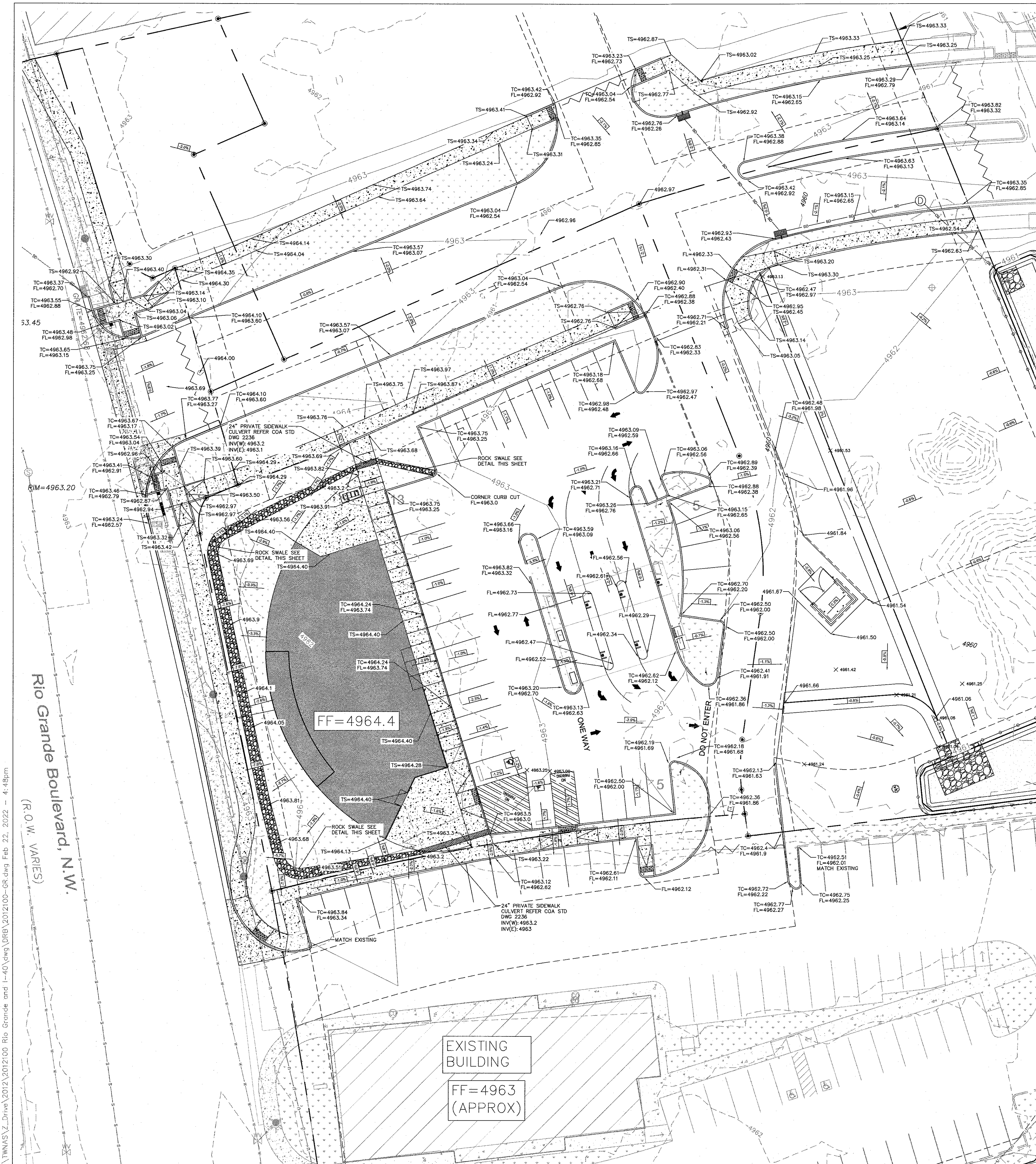
CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

FOR REFERENCE ONLY

ENGINEER'S SEAL RONALD R. BOHANNAN P.E. #7888	SANDIA LAB FCU RIO GRANDE + I-40 GRADING PLAN A	DRAWN BY LN
		DATE 02-22-2022
		SHEET # C3.2
		JOB # 2012100

TERRA WEST, LLC

5571 MIDWAY PARK PL NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com



NOTICE TO CONTRACTORS

1. CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
2. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
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6. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
7. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
8. WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS.
9. CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING ROADWAY.
3. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

NOTE:

1. REFERENCE GEOTECHNICAL REPORT FOR CONSTRUCTION REQUIREMENTS/MINIMUMS
2. REFERENCE LANDSCAPE PLAN FOR FINAL STABILIZATION REQUIREMENTS.

LEGEND

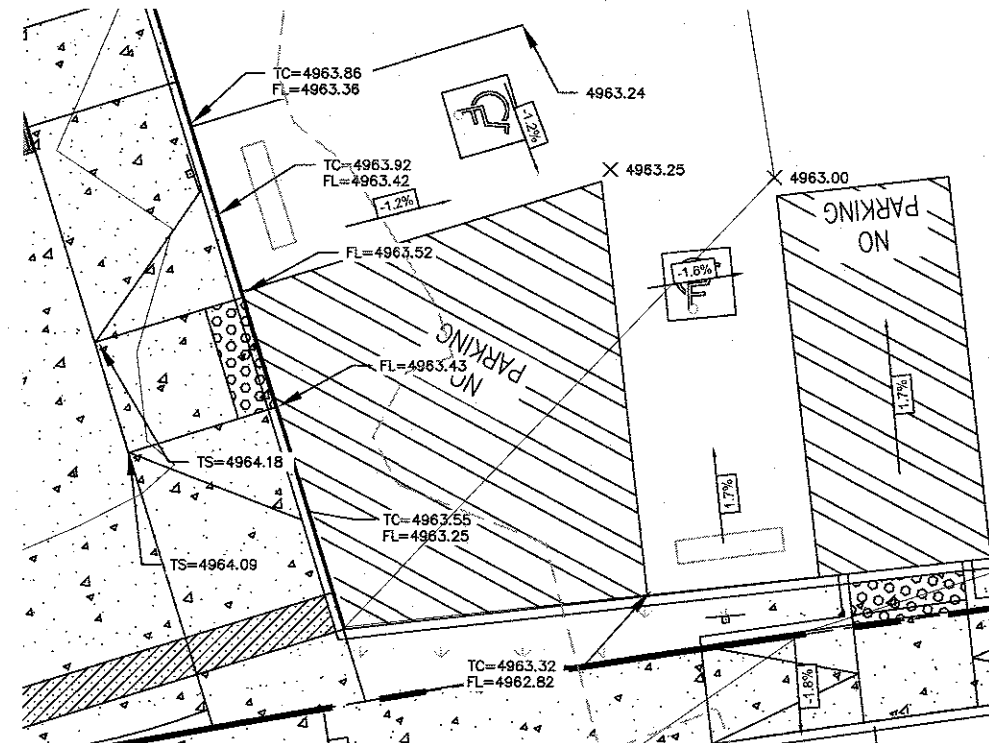
- CURB & GUTTER
- BOUNDARY LINE
- 3D FENCE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- EXISTING SIDEWALK
- PROPOSED SPOT ELEVATION
- FLOW ARROW
- WATER BLOCK
- CMU RETAINING WALL
- GRAVEL MULCH
- CONTOUR MAJOR
- CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING SPOT ELEVATION

SPOT ELEVATION LEGEND

- FL=FLOW LINE
- TS=TOP OF SIDEWALK
- TC=TOP OF CURB

SPOT ELEVATION NOTE:

ALL SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.



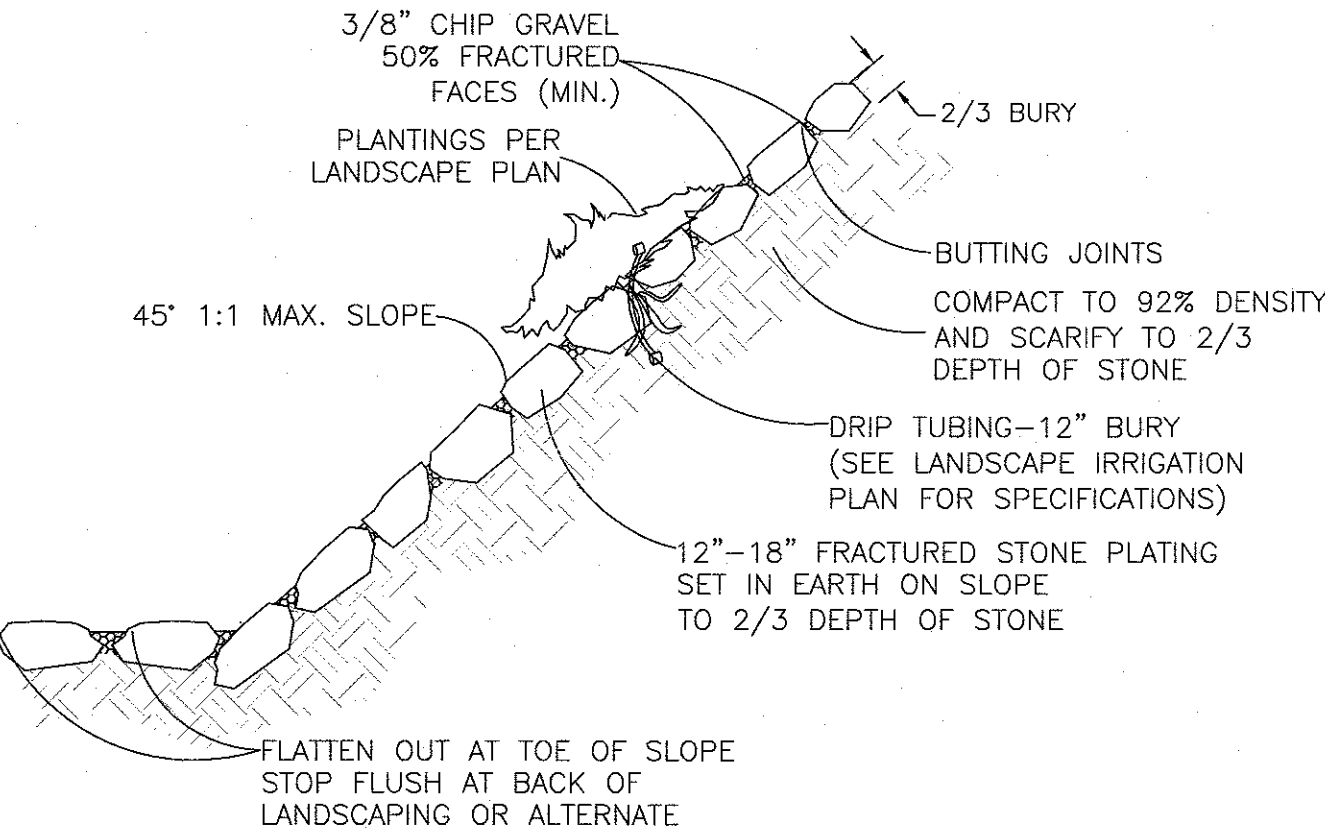
ADA PARKING DETAIL

NTS



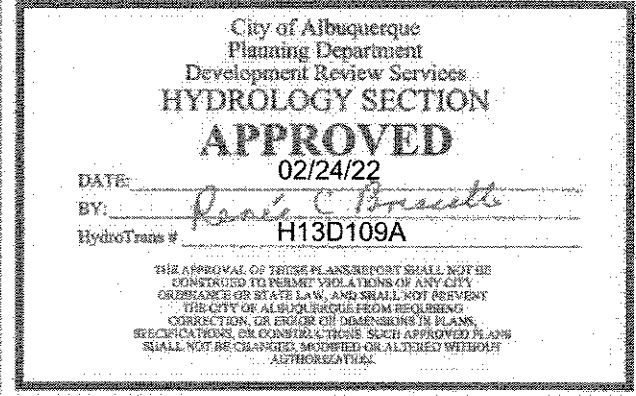
ROCK SWALE

NTS



POND ROCK LINING DETAIL

NTS



FOR REFERENCE ONLY

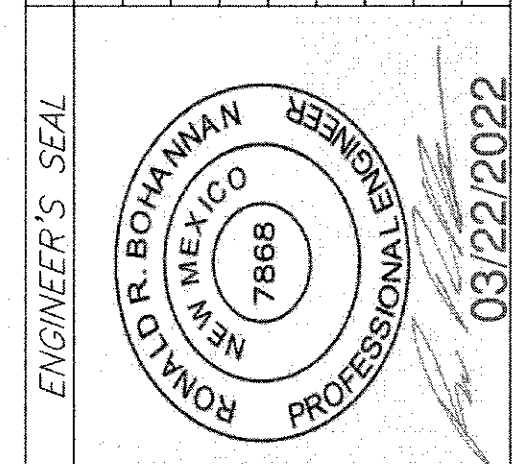
ENGINEER'S SEAL RONALD R. BOHANNAN NEW MEXICO PROFESSIONAL ENGINEER 7868 02/23/2022 RONALD R. BOHANNAN P.E. #7868	SANDIA LAB FCU RIO GRANDE + I-40 GRADING PLAN B TERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrowestllc.com	DRAWN BY LN
		DATE 02-22-2022
		SHEET # C3.3
		JOB # 2012100

CAUTION:

GENERAL CONTRACTOR TO PREVENT DAMAGE TO OVERHEAD/UNDERGROUND UTILITIES DURING CONSTRUCTION OPERATIONS.

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

[illegible]

	MO./DAY/YR.	MO./DAY/YR.
SHEET	11	of 8

H-13-Z

PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE:	RIO GRANDE CROSSING WEST (SOUTH) RIO GRANDE BLVD. SIDEWALK IMPROVEMENTS

DESIGN REVIEW COMMITTEE

APPROVED

May 13, 2022

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

APPROVED

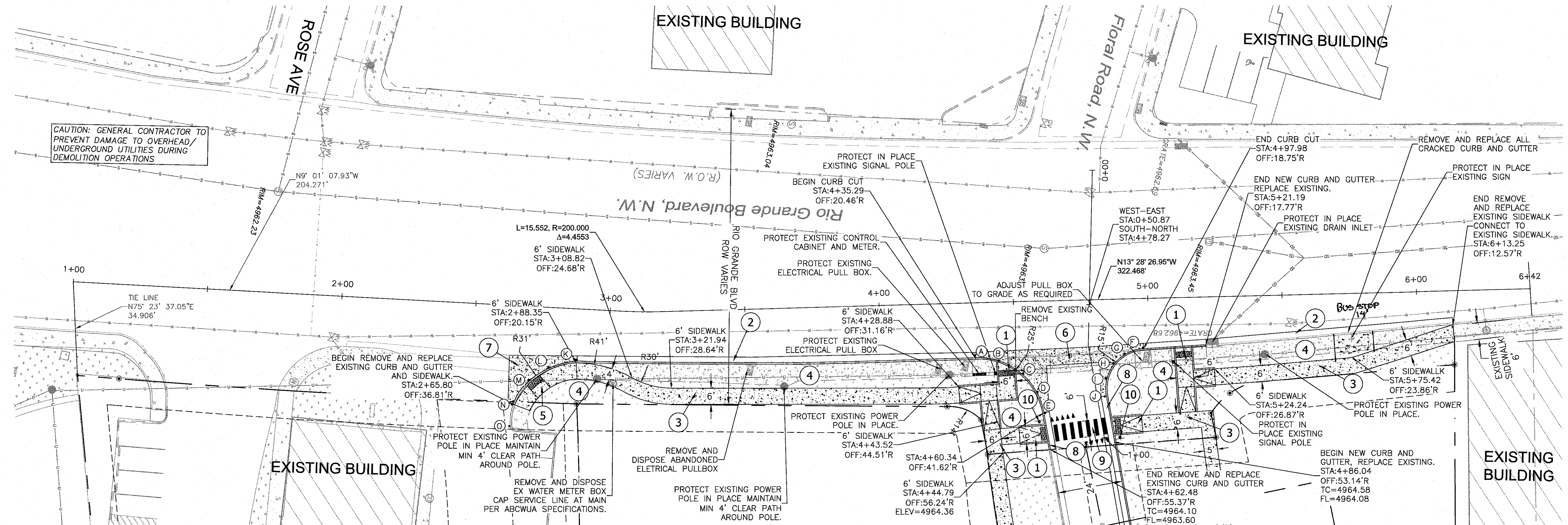
July 19, 2022

CITY ENGINEER

CITY PROJECT NO. 759483

ZONE MAP NO.
H-13-7

SHEET 11 of 17



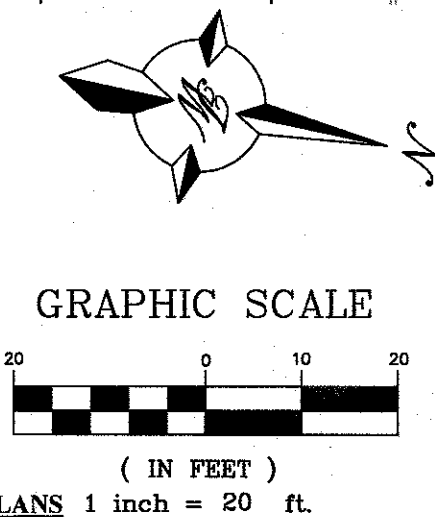
QUARTER POINTS SOUTH DRIVEWAY

FL	ELEV.
K	4962.10 4961.90
L	4962.41
M	4962.61 4962.49
N	4962.68
O	4962.96

*MATCH EXISTING ELEVATION

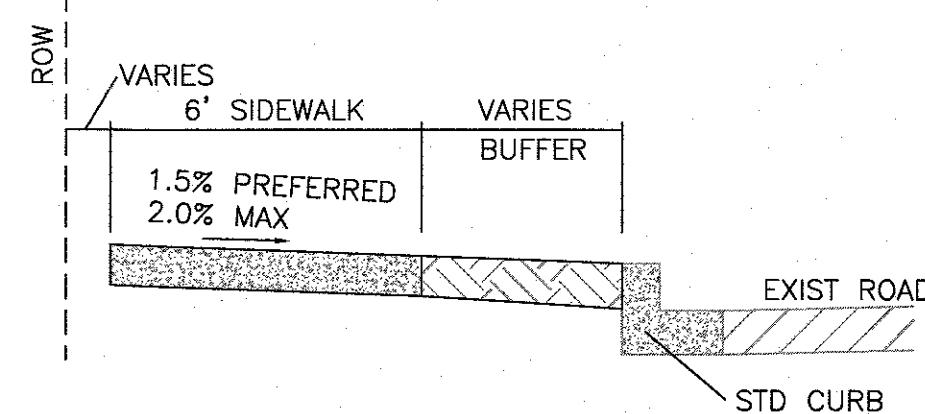
KEYED NOTES

- PARALLEL CURB RAMP (DETAIL C) PER COA STD DWG 2443 WITH DETECTABLE WARNING PADS PER COA STD DWG 2446
- STD CURB AND GUTTER PER COA STD DWG 2415A
- 6" CONCRETE SIDEWALK PER COA STD DWG 2430
- 2-4" GRAVEL MULCH PER CITY STD DWG 2414
- CORNER ADA RAMP PER COA STD DWG 2441 WITH DETECTABLE WARNING PADS PER COA STD DWG 2446
- PRIVATE ENTRANCE WITH VALLEY GUTTER PER COA STD DWG 2426 AND 2420
- REMOVE AND REPLACE VALLEY GUTTER PER COA STD DWG 2420
- 6" CURB AND GUTTER PER COA STD DWG 2415A
- 6" CROSSWALK STRIPPING (CONTINENTAL) REFER COA STD DWG 2600-106 WITH YIELD TO PEDESTRIAN SHARK TEETH (BOTH SIDES)
- PEDESTRIAN CROSSING SIGN PER MUTCD W11-2 AND W16-7



CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



QUARTER POINTS NORTH DRIVEWAY

C1	FL	ELEV.	C2	FL	ELEV.
A	4962.59		F	4962.88	4963.23
B	4962.76		G	4963.06	
C	4962.93		H	4963.24	4963.58
D	4963.10		I	4963.42	
E	4963.27		J	4963.60	4963.58

*MATCH EXISTING ELEVATION

LEGEND

- NEW CURB & GUTTER
- ROW LINE
- NEW SIDEWALK
- LANDSCAPE AREA
- EXISTING SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING OVERHEAD UTILITIES
- SD INLET
- EXISTING FIRE HYDRANT

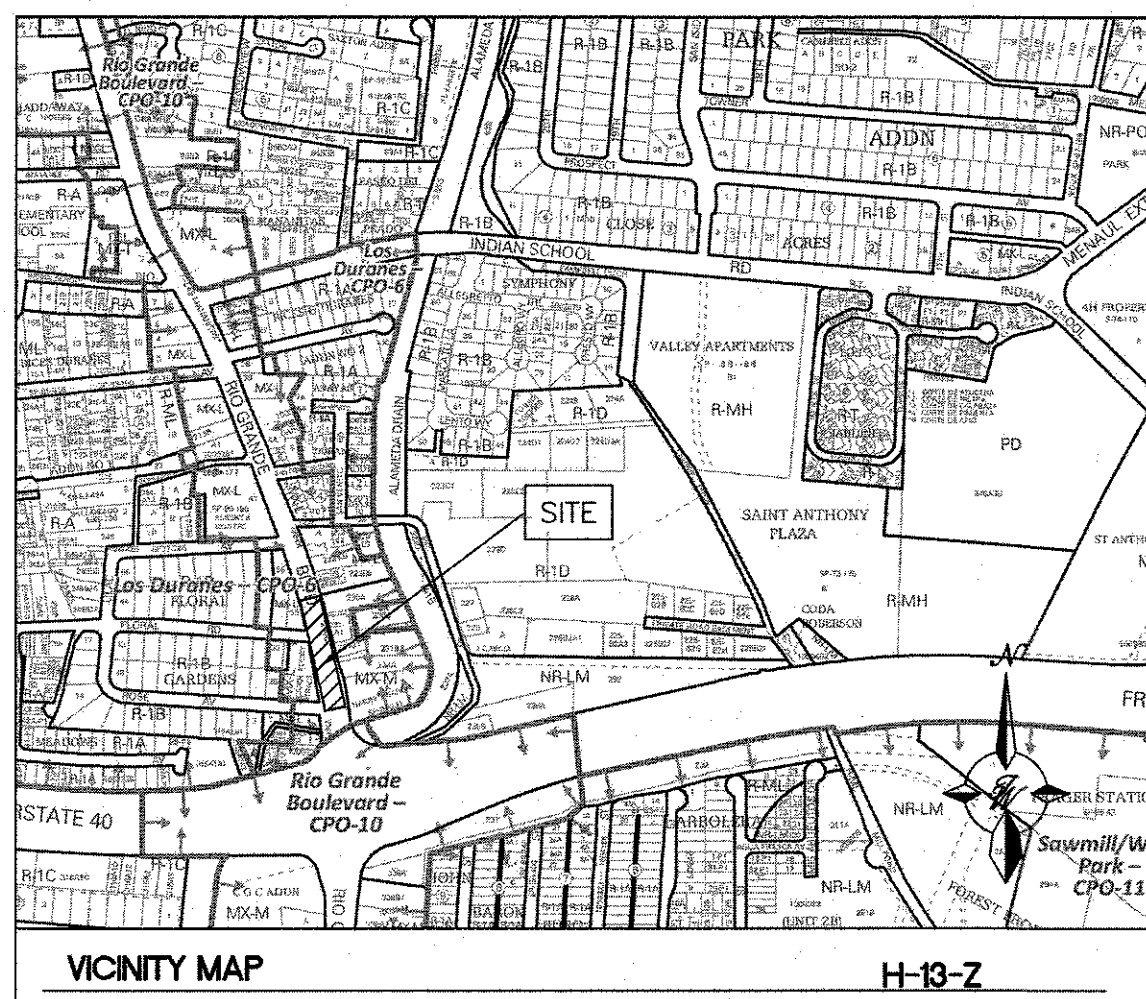
NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA STANDARD SPECIFICATIONS.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 811, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- WORK ON ARTERIAL STREETS MAY BE PERFORMED ON A 24-HOUR BASIS.

Certification

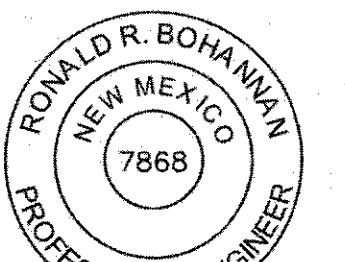
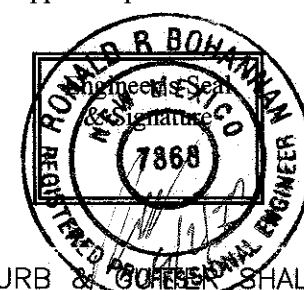
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Signature of Engineer



NOTES

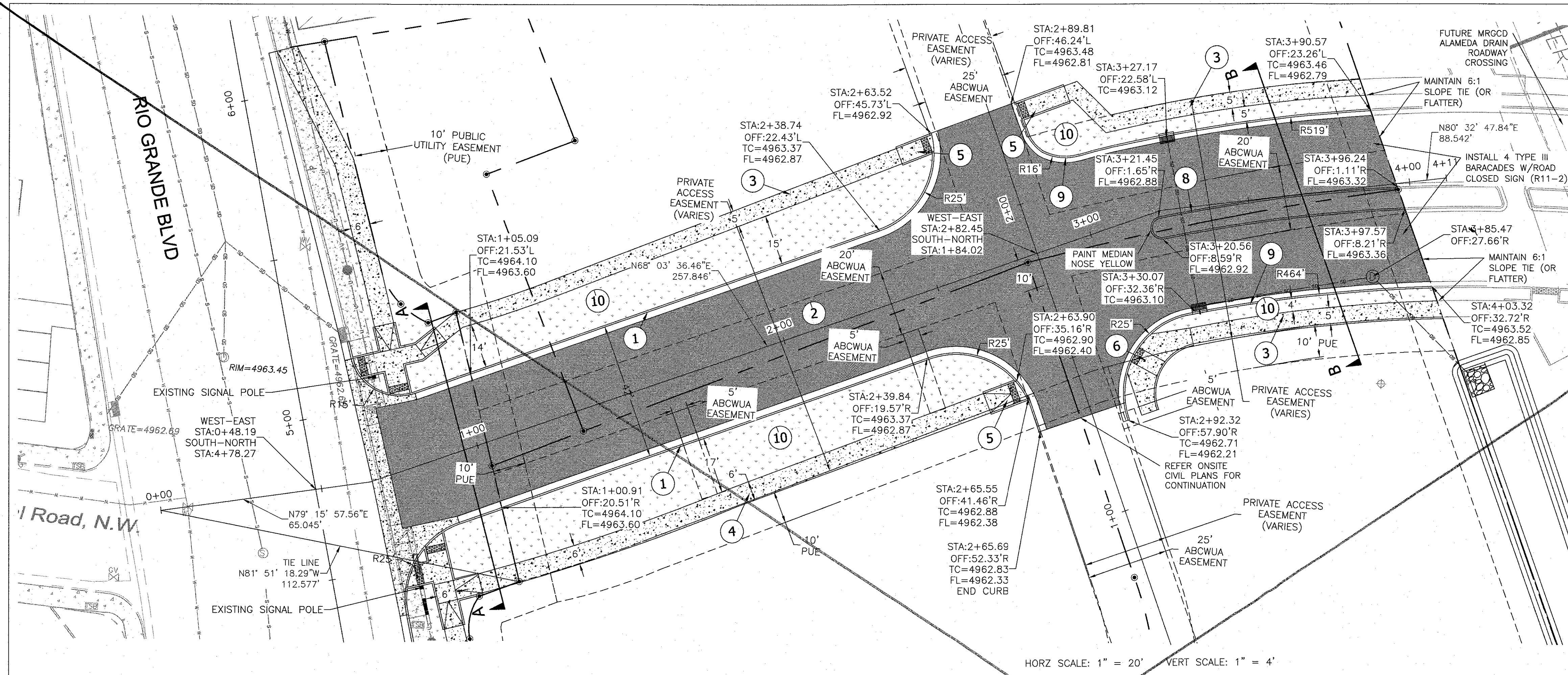
- REMOVAL OF EXISTING CURB AND GUTTER SHALL BE TO THE NEAREST JOINT.
- ANY DAMAGE TO THE EXISTING CURB & GUTTER, PAVEMENT, SIDEWALKS, STRIPING, AND SIGNAGE DURING CONSTRUCTION SHALL BE REPLACED.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- CURB AND GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH THE ELEVATIONS OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB AND GUTTER AND SIDEWALK.
- CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING SURFACE FEATURES AND UTILITIES, UNLESS OTHERWISE SHOWN.
- ALL WATER VALVES, MANHOLE RIMS, AND COLLARS ARE TO BE ADJUSTED TO FINISHED GRADE WHERE NECESSARY.



10/19/2022

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100
www.tierrawestllc.com

PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: RIO GRANDE CROSSING WEST (SOUTH) RIO GRANDE BLVD. SIDEWALK IMPROVEMENTS			
DESIGN REVIEW COMMITTEE APPROVED Oct. 20, 2022	CITY ENGINEER APPROVAL APPROVED Oct. 20, 2022	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 759483	ZONE MAP NO. H-13-Z	SHEET 11R	of 17



SPOT ELEVATION LEGEND

FL=FLOW LINE
TS=TOP OF SIDEWALK
TC=TOP OF CURB

GRAPHIC SCALE

0 20 40.0001
SCALE: 1" = 20'

LEGEND

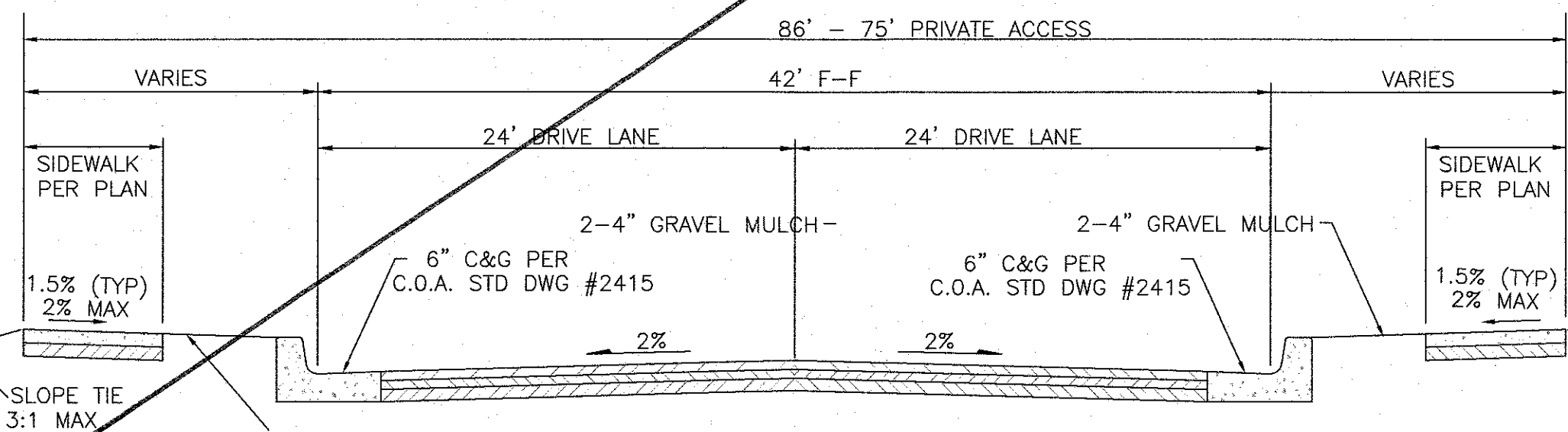
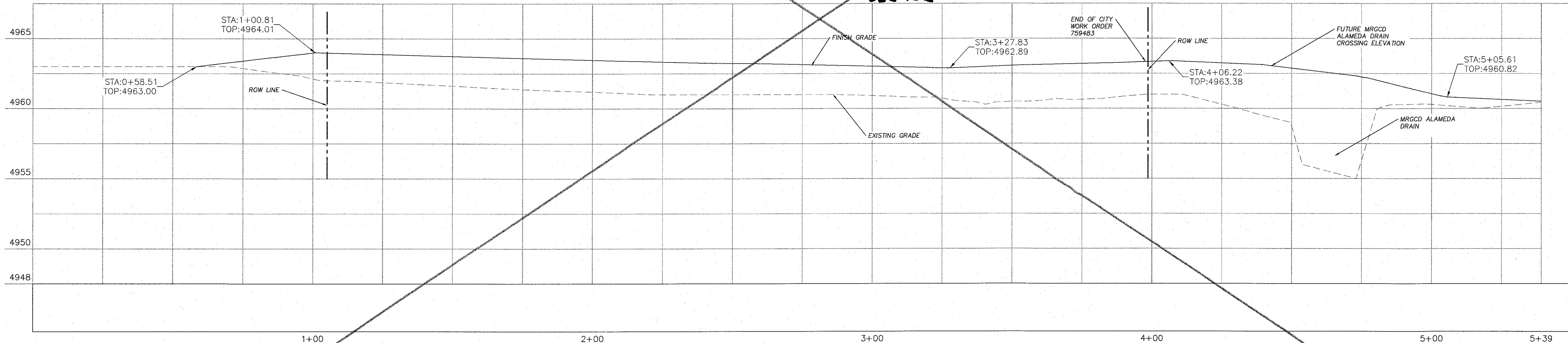
- NEW CURB & GUTTER
- ROW LINE
- NEW SIDEWALK
- LANDSCAPE AREA
- EXISTING SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING OVERHEAD UTILITIES
- SD INLET
- EXISTING FIRE HYDRANT
- STORM DRAIN MANHOLE
- NEW PAVEMENT

KEYED NOTES

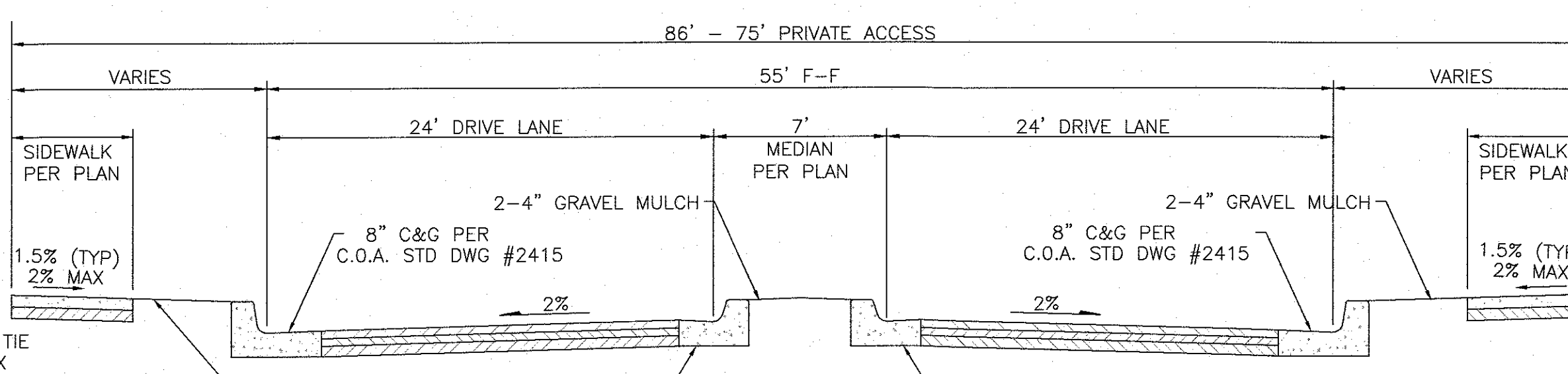
- 6" CURB AND GUTTER PER COA STD DWG 2415A
- ASPHALT PAVING (SEE DETAIL SHEET 17)
- 5' CONCRETE SIDEWALK PER COA STD DWG 2430
- 6' CONCRETE SIDEWALK PER COA STD DWG 2430
- UNIDIRECTIONAL ADA RAMP PER COA STDS (SEE DETAIL SHEET 17)
- CORNER ADA RAMP PER COA STDS (SEE DETAIL SHEET 17)
- HEADER CURB PER COA STD DWG 2415C
- MEDIAN CURB PER COA STD DWG 2415A
- 8" CURB AND GUTTER PER COA STD DWG 2415A
- 2-4" GRAVEL MULCH PER COA STD DWG 2414

HORZ SCALE: 1" = 20' VERT SCALE: 1" = 4'

SEE 12R

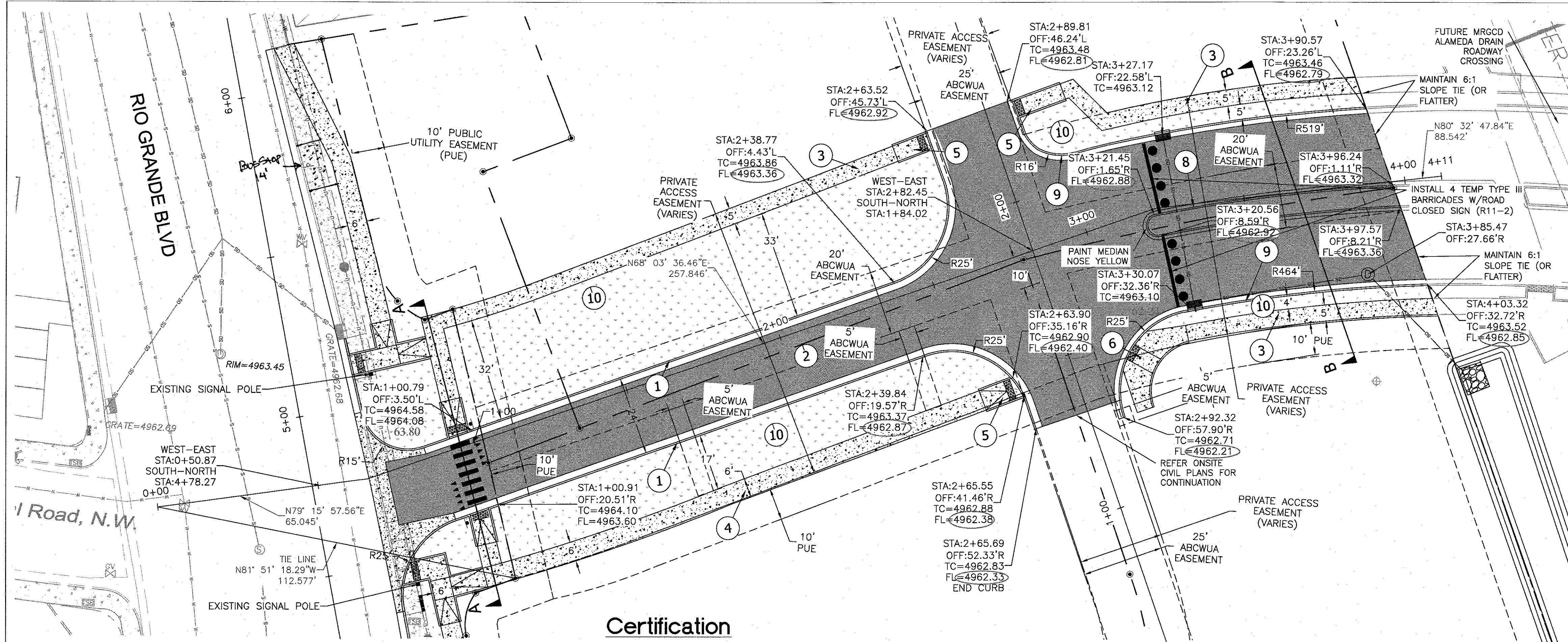


SECTION A-A
NTS



SECTION B-B
NTS

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100 www.tierrawestllc.com			
PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: RIO GRANDE CROSSING WEST (SOUTH) PRIVATE ACCESS PAVING IMPROVEMENTS AT FLORAL RD			
DESIGN REVIEW COMMITTEE APPROVED May 13, 2022 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED July 19, 2022 CITY ENGINEER	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 759483		ZONE MAP NO. H-13-Z	SHEET 12 of 17



SPOT ELEVATION LEGEND
FL=FLOW LINE
TS=TOP OF SIDEWALK
TC=TOP OF CURB

GRAPHIC SCALE
0 20 40.001
Feet
SCALE: 1" = 20'

LEGEND

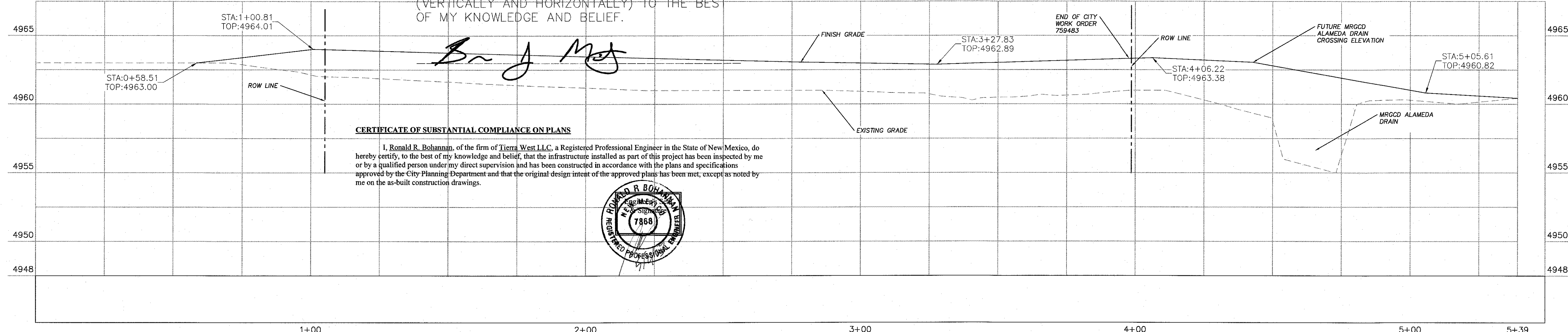
- NEW CURB & GUTTER
- ROW LINE
- NEW SIDEWALK
- LANDSCAPE AREA
- EXISTING SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING OVERHEAD UTILITIES
- SD INLET
- EXISTING FIRE HYDRANT
- STORM DRAIN MANHOLE
- NEW PAVEMENT

KEYED NOTES

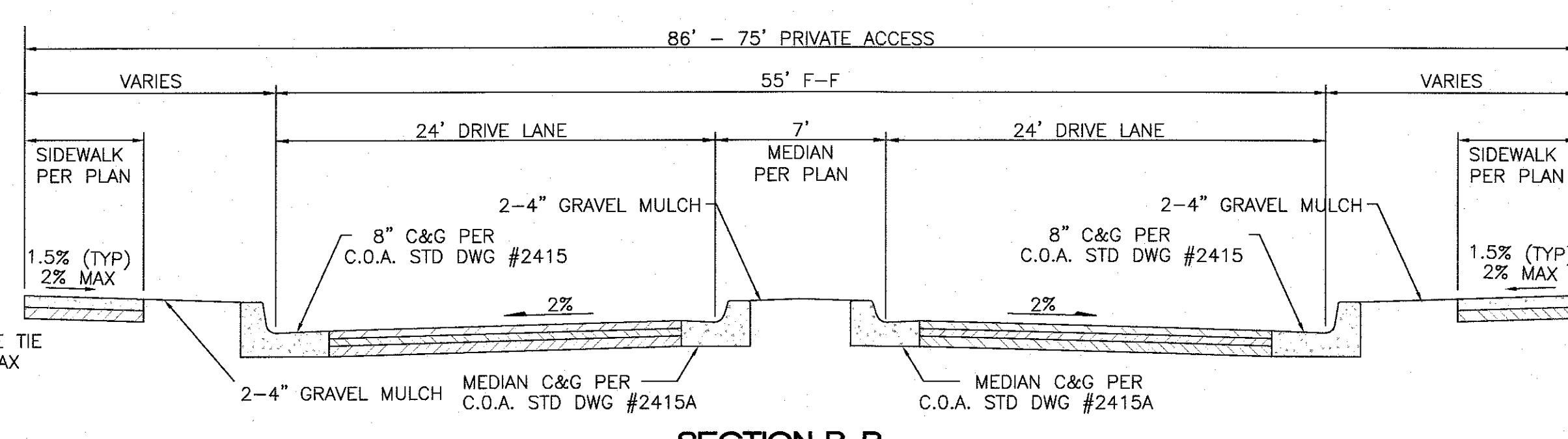
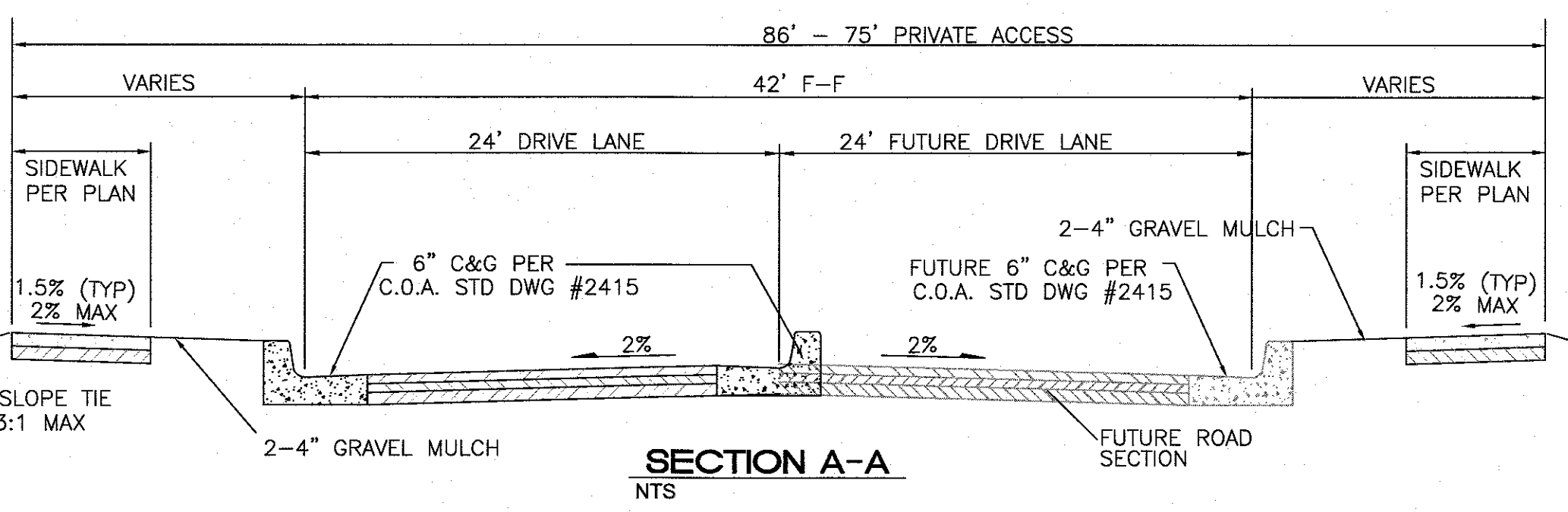
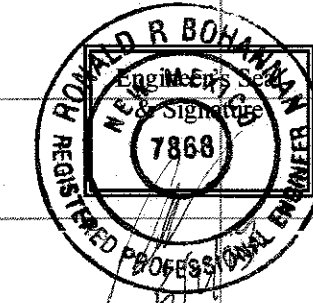
- 6" CURB AND GUTTER PER COA STD DWG 2415A
- ASPHALT PAVING (SEE DETAIL SHEET 17)
- 5' CONCRETE SIDEWALK PER COA STD DWG 2430
- 6' CONCRETE SIDEWALK PER COA STD DWG 2430
- UNIDIRECTIONAL ADA RAMP PER COA STDS (SEE DETAIL SHEET 17)
- CORNER ADA RAMP PER COA STDS (SEE DETAIL SHEET 17)
- HEADER CURB PER COA STD DWG 2415C
- MEDIAN CURB PER COA STD DWG 2415A
- 8" CURB AND GUTTER PER COA STD DWG 2415A
- 2-4" GRAVEL MULCH PER COA STD DWG 2414

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

HORZ SCALE: 1" = 20' VERT SCALE: 1" = 4'



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100
www.tierrawestllc.com

**PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: RIO GRANDE CROSSING WEST (SOUTH)
PRIVATE ACCESS PAVING IMPROVEMENTS
AT FLORAL RD**

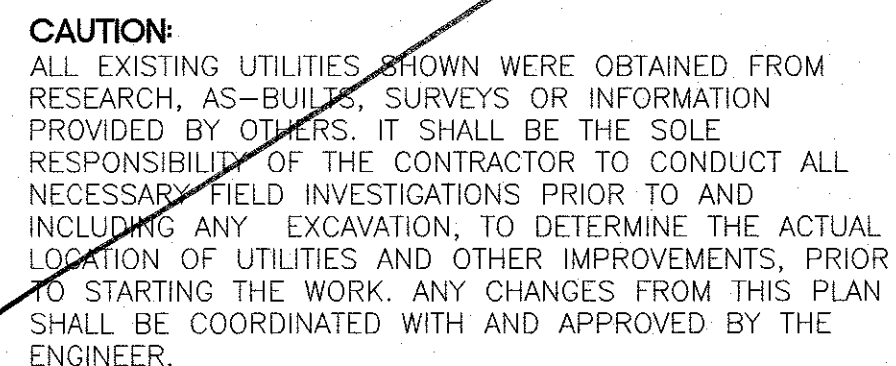
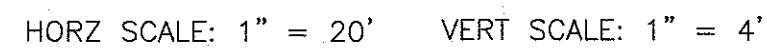
DESIGN REVIEW COMMITTEE
APPROVED
Oct. 20, 2022

CITY ENGINEER APPROVAL
APPROVED
Oct. 20, 2022

**DESIGNED BY: LN
DRAWN BY: RG
DRAWING NAME: 2012100-WO
CHECKED BY: RB**

**DATE: 06/21/2021
DATE: 06/21/2021
JOB NO.: 2012100
DATE: 06/21/2021**

CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 125 of 17



FL=FLOW LINE
TS=TOP OF SIDEWALK
TC=TOP OF CURB

- | | |
|-------------|-------------------------|
| | CURB & GUTTER |
| | BOUNDARY LINE |
| | 3D FENCE |
| | EASEMENT |
| | SIDEWALK |
| | EXISTING CURB & GUTTER |
| | EXISTING BOUNDARY LINE |
| | EXISTING SIDEWALK |
| x 5048.25 | PROPOSED SPOT ELEVATION |
| | FLOW ARROW |
| | WATER BLOCK |
| | CMU RETAINING WALL |
| | GRAVEL MULCH |
| 5010 | CONTOUR MAJOR |
| -5011- | CONTOUR MINOR |
| -5010- | EXISTING CONTOUR MAJOR |
| -5011- | EXISTING CONTOUR MINOR |
| x 5048.25 | EXISTING SPOT ELEVATION |



~~PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP~~

DESIGN REVIEW COMMITTEE

APPROVED

May 13, 2022

DESIGN
REVIEW COMMITTEE

CITY ENGINEER APPROVAL

APPROVED

July 19, 2022

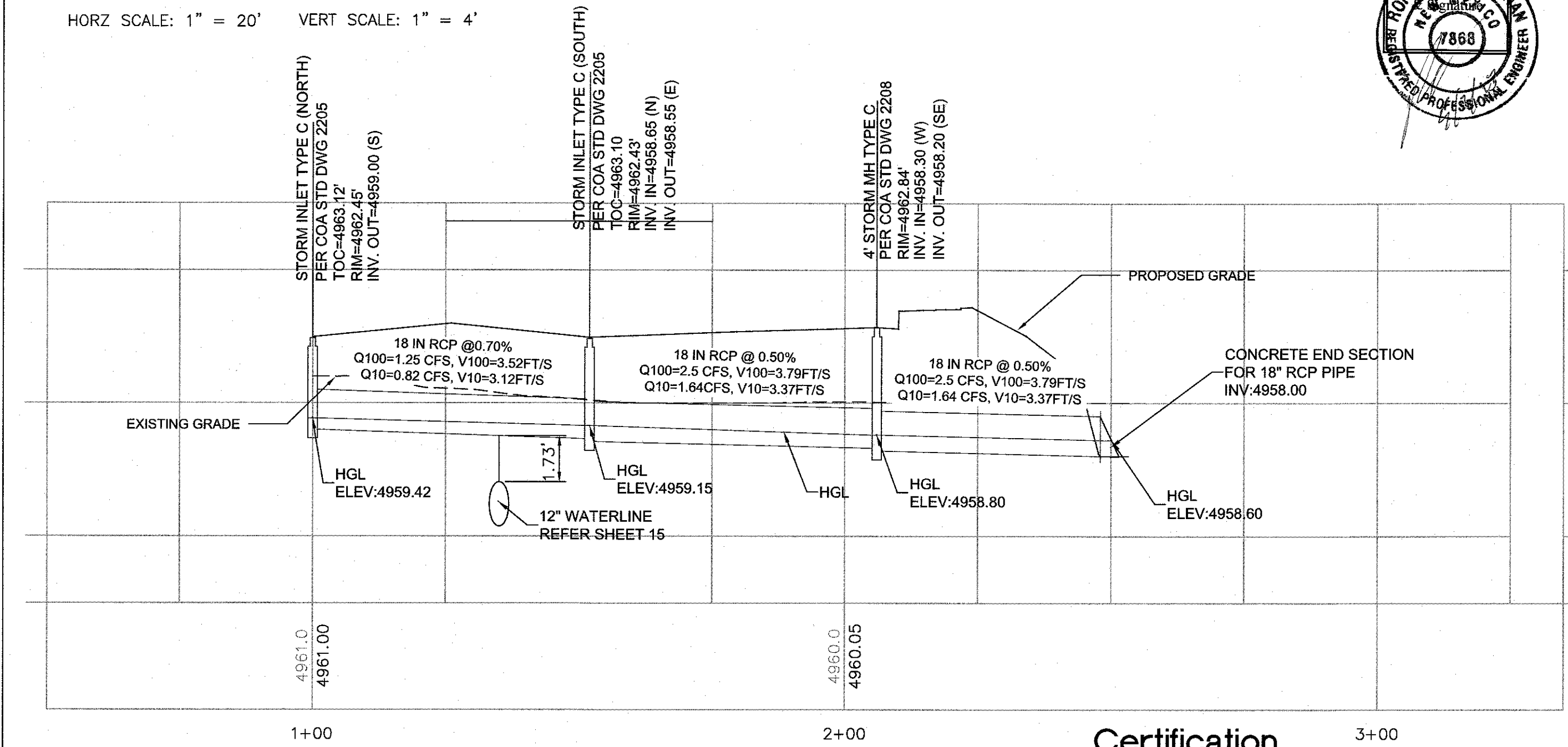
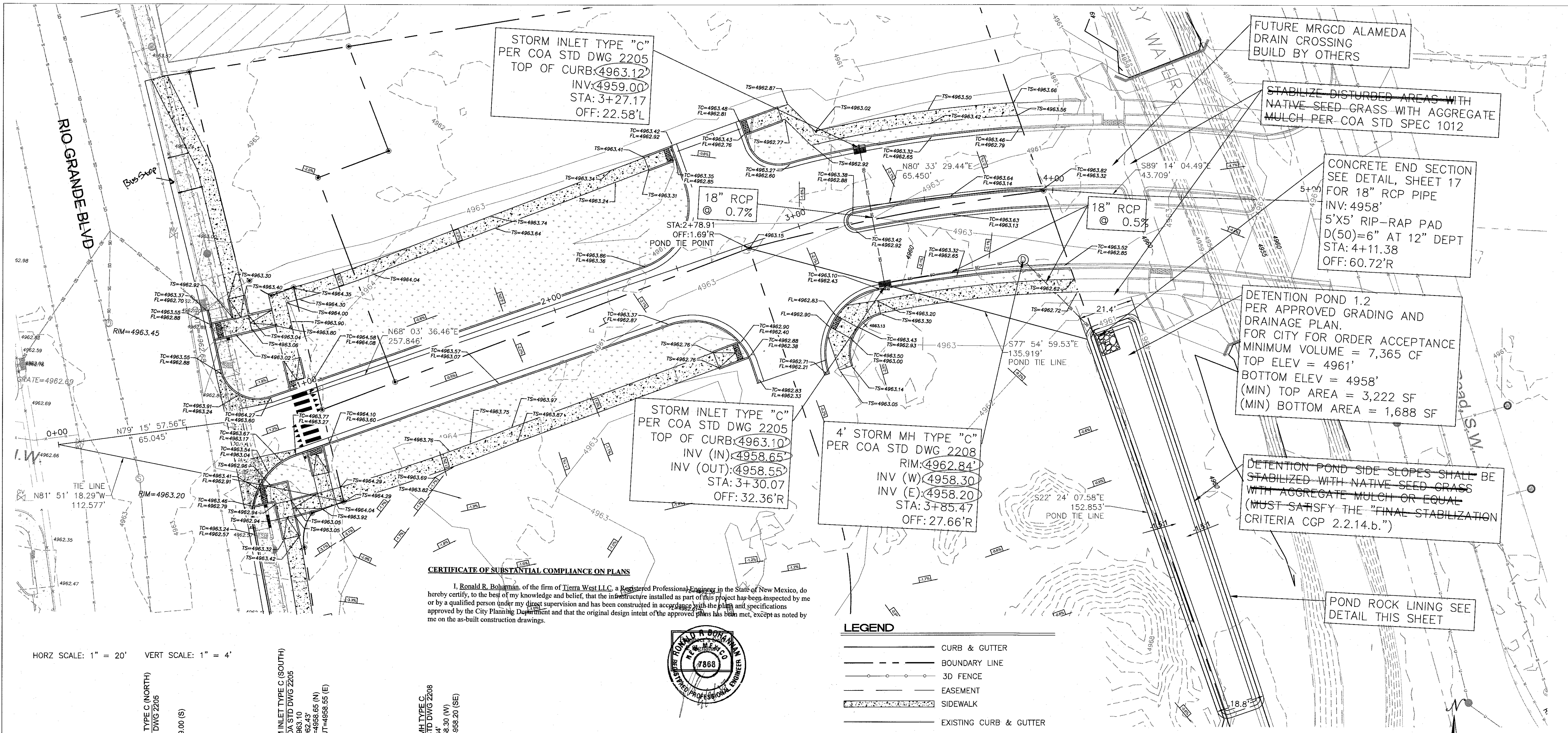
CITY ENGINEER

ZONE MAP NO.
H-13-7

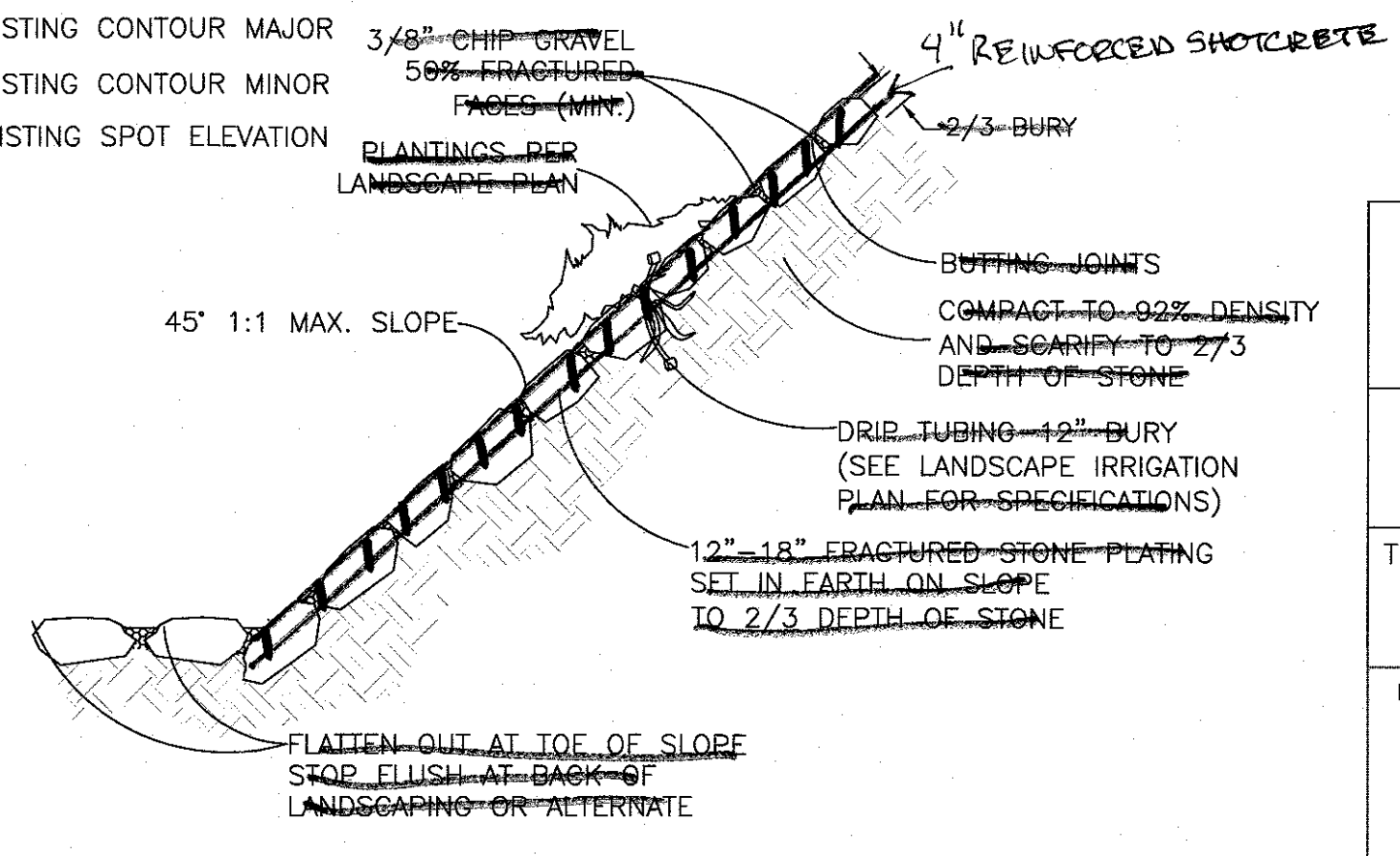
SHEET 12A of 17

03/22/2022

of 17



- LEGEND**
- CURB & GUTTER
 - BOUNDARY LINE
 - 3D FENCE
 - EASEMENT
 - SIDEWALK
 - EXISTING CURB & GUTTER
 - EXISTING BOUNDARY LINE
 - EXISTING SIDEWALK
 - PROPOSED SPOT ELEVATION
 - FLOW ARROW
 - WATER BLOCK
 - CMU RETAINING WALL
 - GRAVEL MULCH
 - CONTOUR MAJOR
 - CONTOUR MINOR
 - EXISTING CONTOUR MAJOR
 - EXISTING CONTOUR MINOR
 - EXISTING SPOT ELEVATION



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**PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: RIO GRANDE CROSSING WEST (SOUTH)
PRIVATE ACCESS STORM DRAIN IMPROVEMENTS
AT FLORAL RD**

DESIGN REVIEW COMMITTEE: APPROVED Oct. 20, 2022
CITY ENGINEER APPROVAL: APPROVED Oct. 20, 2022

CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 12R of 17

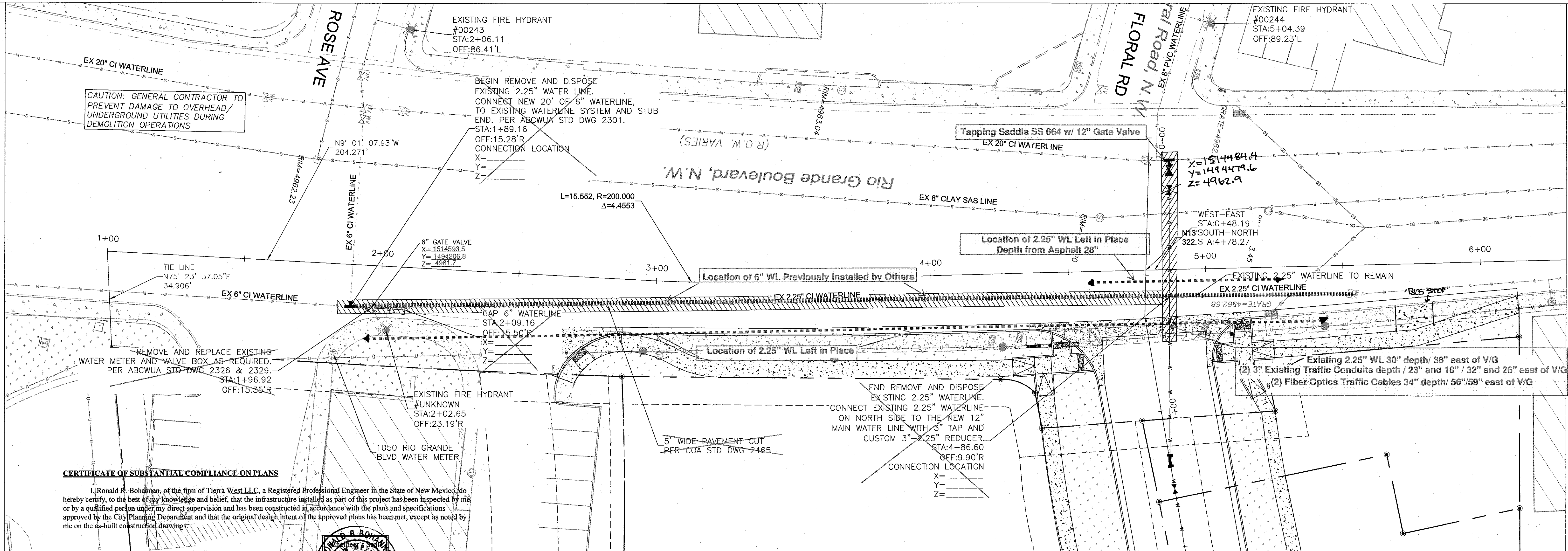
CAUTION:
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SPOT ELEVATION LEGEND
FL=FLOW LINE
TS=TOP OF SIDEWALK
TC=TOP OF CURB

Certification
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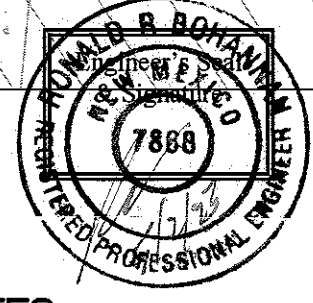
B. J. [Signature]

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	AGRS STATION	NEW MEXICO STATE	FIELD NOTES	DATE	NO.	BY	NO.	DATE
WORKS BY: [Signature]	DATE: 10/19/2022	PLANE COORDINATES	CENTRAL ZONE (NAD 1983)						
INSPECTOR'S ACCEPTANCE	DATE: 10/19/2022	EL=4963.168 (NAD 1988)	GROUND TO GRID FACTOR=0.999884701						
VERIFICATION BY: [Signature]	DATE: 10/19/2022								
DRAWINGS BY: [Signature]	DATE: 10/19/2022								
RECORDING BY: [Signature]	DATE: 10/19/2022								



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



- NOTE:**
1. ALL WATERLINES ARE C900 PVC (DR18) UNLESS OTHERWISE NOTED. (USE DUCTILE IRON AS SUBSTITUTE)
 2. ALL SANITARY SEWER LINES ARE TO BE SDR-35 PVC UNLESS OTHERWISE NOTED.
 3. ALL MANHOLES <6' MUST USE TYPE "C" MANHOLE PER ABCWUA DWG. 2101.
 4. REPLACE ALL DAMAGED PAVEMENT MARKINGS
 5. ALL SIGNS AND STRIPING SHALL BE MADE IN ACCORDANCE WITH THE MUTCD (CURRENT EDITION) SPECIFICATIONS AND COA STANDARDS.
 6. ALL SYMBOLS AND ARROWS STRIPING TO BE PREFORMED HOT APPLIED THERMOPLASTIC TAPE.
 7. ALL LANE OR LANES STRIPING TO BE PREFORMED HOT APPLIED THERMOPLASTIC TAPE.
- NOTES**
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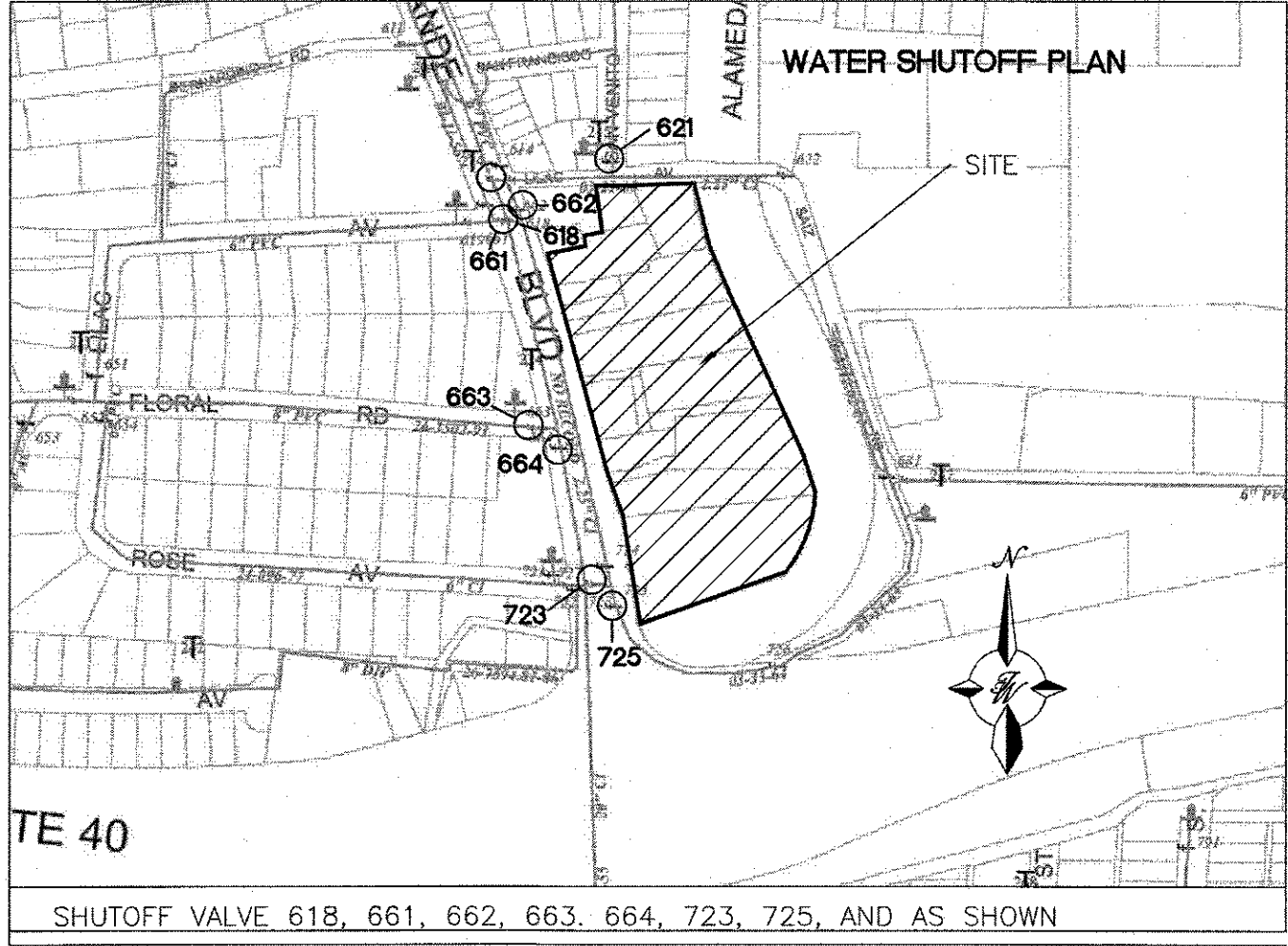
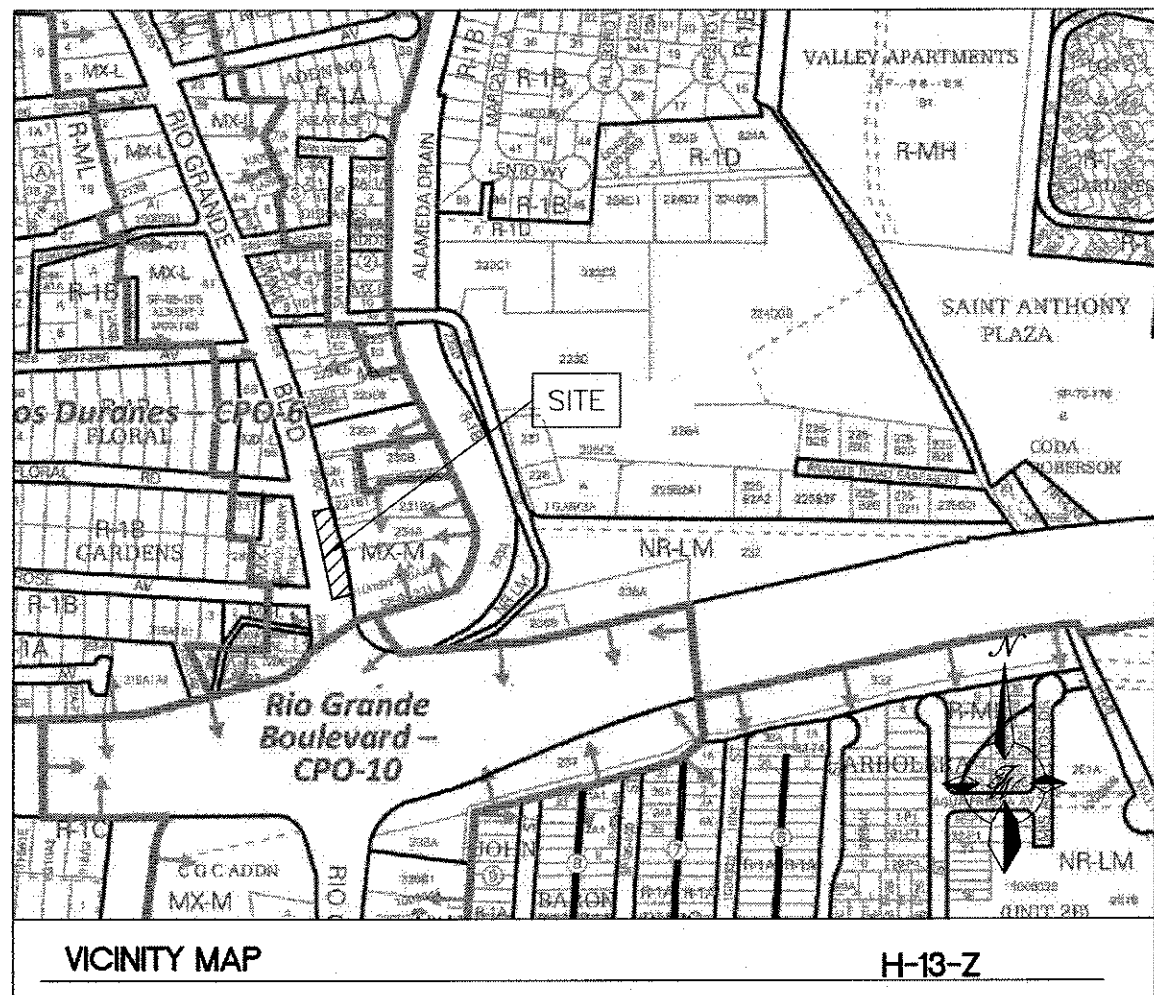
B. J. M.

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

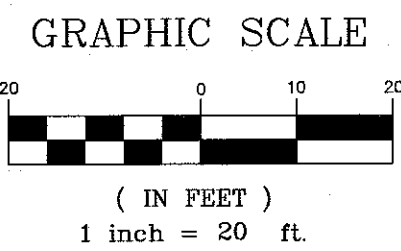
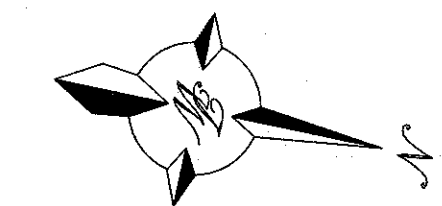
GENERAL UTILITY NOTES:

1. ENGINEER MUST COORDINATE WATER SYSTEM WITH SEWER SYSTEM TO PREVENT ANY CONFLICTS WHERE THESE LINES INTERSECT ONE ANOTHER.
2. PROVIDE 3 FEET OF COVER MINIMUM FOR ALL PROPOSED WATER LINES.
3. AREAS WHERE WATER PIPES CROSS OVER SEWER PIPES SHALL NOT HAVE ANY JOINTS.
4. NO FENCES, SIGNS, TREES OR ROCKWALLS TO BE PLACED WITHIN UTILITY EASEMENTS.
5. CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION. CALL 811 FOR PUBLIC UTILITY LOCATES.
6. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FEET AS PER O.S.H.A. STANDARDS.
7. PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT THE FOLLOWING: TAPPING SLEEVES, TEES, BENDS, PLUGS AND ALL FITTINGS.
8. P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
9. CAUTION: VERIFY LOCATION & DEPTH OF EXISTING GAS MAIN IN THE AREA OF CONSTRUCTION, BEFORE INSTALLING WATER LINE.



WATER SHUTOFF NOTES

THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx).



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LEGEND

- BOUNDARY LINE
- EASEMENT
- NEW SIDEWALK
- NEW WATERLINE
- NEW SANITARY SEWER LINE
- EXISTING BOUNDARY LINE
- EXISTING BUILDING
- EXISTING SIDEWALK
- EXISTING OVERHEAD UTILITIES
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- SD MANHOLE
- SD INLET
- SAS MANHOLE
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WATER METER
- NEW GATE VALVE
- EXISTING WATER VALVE
- CLEAN OUT

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PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: **RIO GRANDE CROSSING WEST (SOUTH)**
RIO GRANDE BLVD. UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE
APPROVED
May 13, 2022
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
July 19, 2022
CITY ENGINEER

MO./DAY/YR.	MO./DAY/YR.

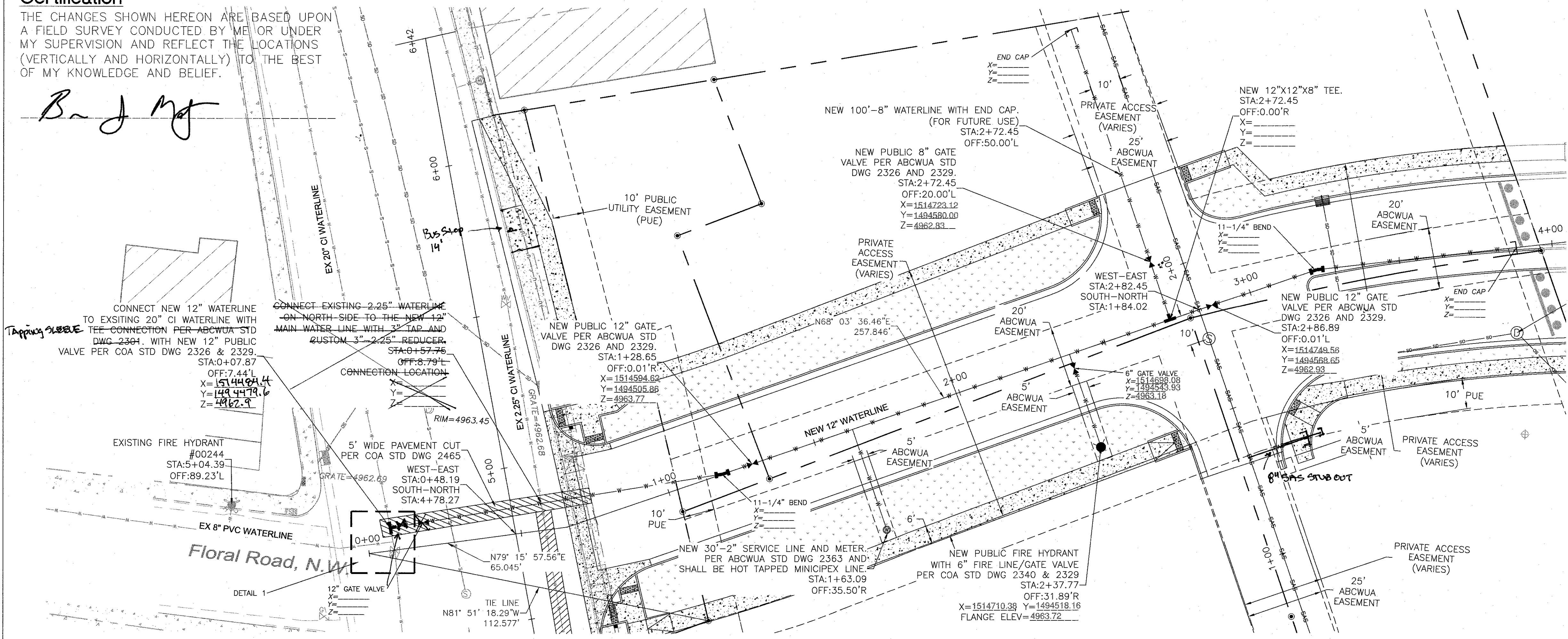
CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 13 of 17

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	AGRS STATION	NEW MEXICO STATE	DATE	BY	RONALD R. BOHANNON NEW MEXICO 7868 PROFESSIONAL ENGINEER	03/22/2022
DATE	DATE	PLANE COORDINATES	CENTRAL ZONE (NAD 1983)				
DATE	DATE	N=1,495,058.484 E=1,514,348.572	EL=4963.168 (NAVD 1988)				
DATE	DATE	GROUND TO GRID FACTOR=0.999684701	DELTA ALPHA=-0.1432.76"				

Certification

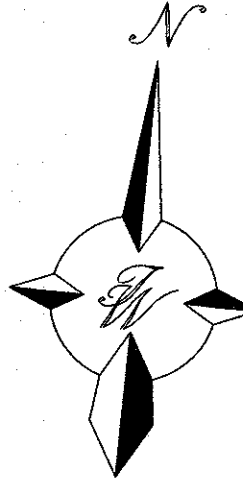
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B. J. M.

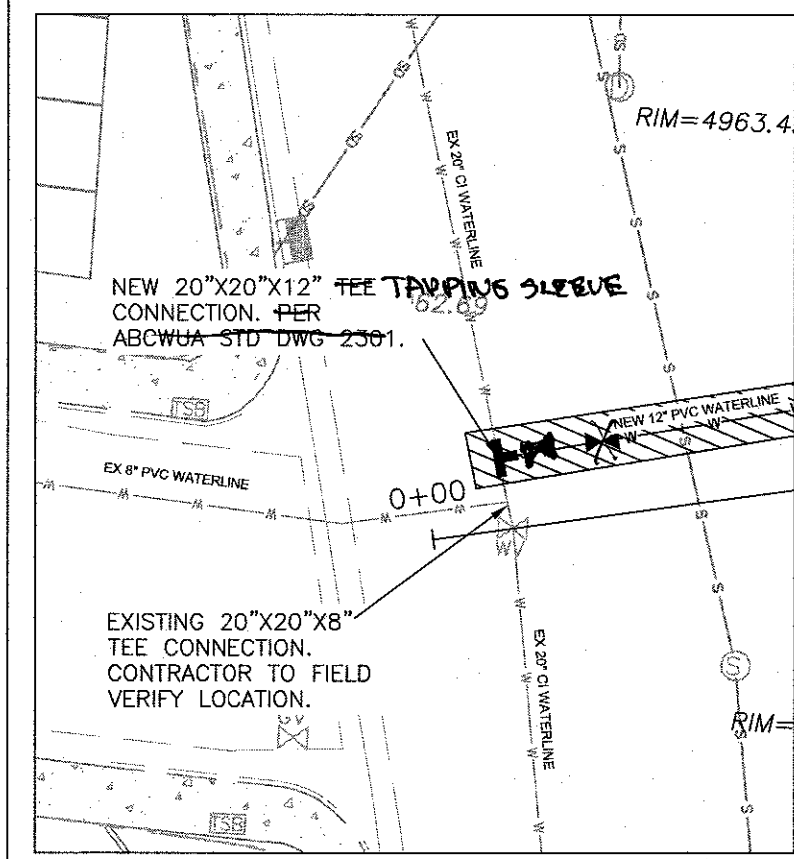
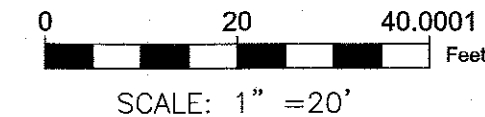


LEGEND

- PROPERTY LINE
- EASEMENT
- NEW SIDEWALK
- NEW WATERLINE
- NEW SANITARY SEWER LINE
- NEW STORM DRAIN LINE
- EXISTING BOUNDARY LINE
- EXISTING BUILDING
- EXISTING SIDEWALK
- EXISTING OVERHEAD UTILITIES
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- SD MANHOLE
- SD INLET
- SAS MANHOLE
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WATER METER
- NEW GATE VALVE
- EXISTING WATER VALVE
- CLEAN OUT
- PAVEMENT CUT

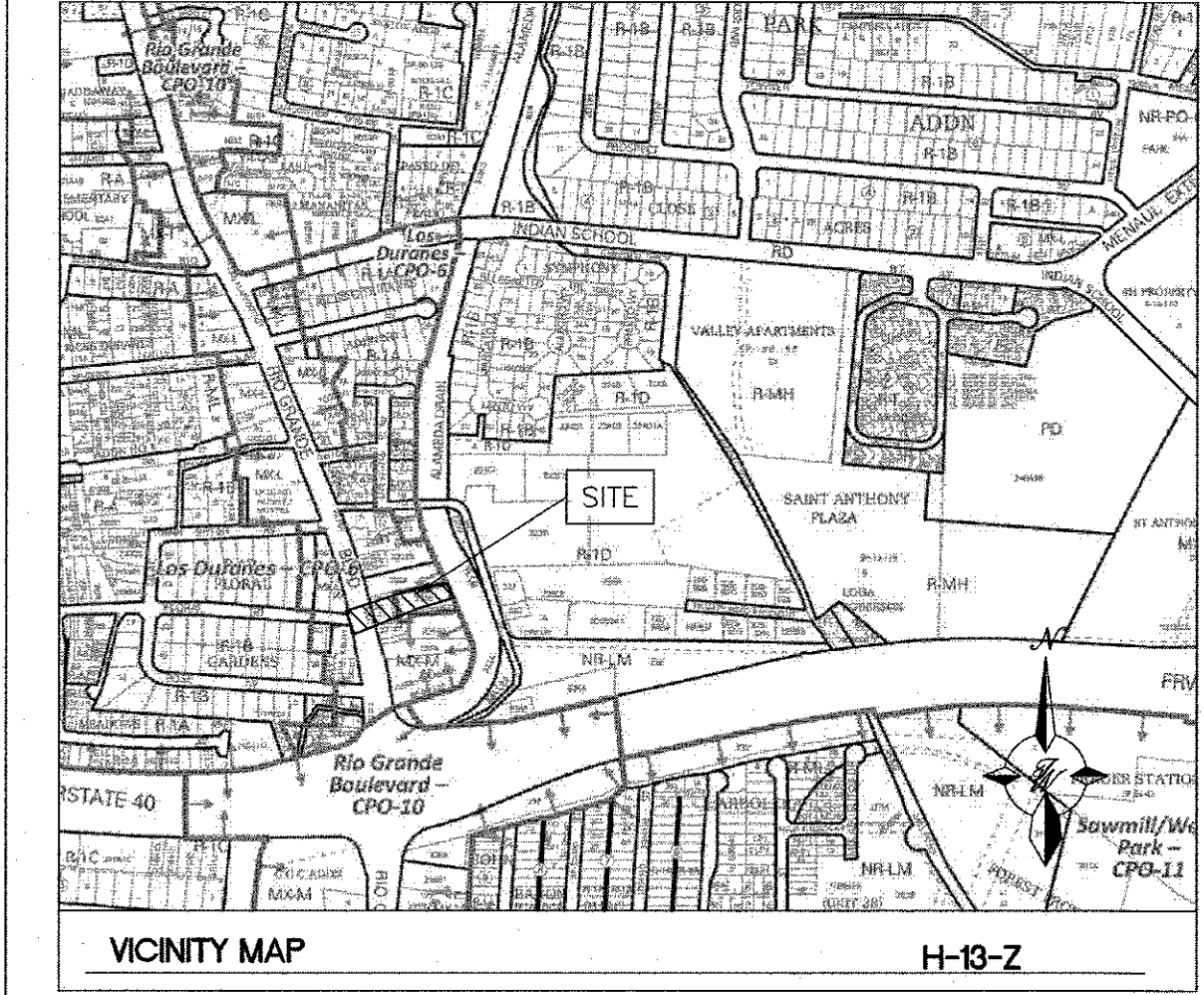


GRAPHIC SCALE



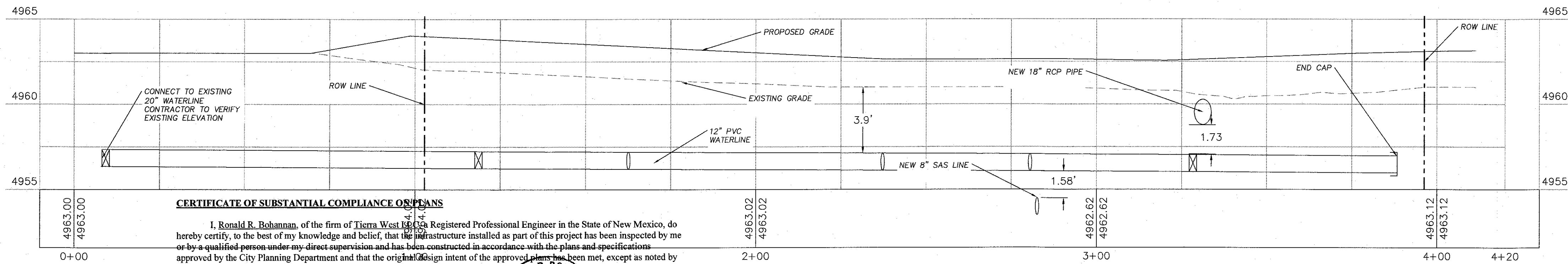
DETAIL 1 (FOR REFERENCE)

NTS



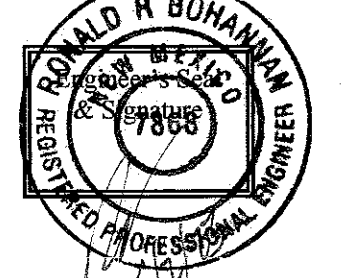
VICINITY MAP

HORZ SCALE: 1" = 20' VERT SCALE: 1" = 5'



CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, Ronald R. Bohman, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



NOTICE TO CONTRACTORS

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- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

GENERAL UTILITY NOTES:

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- PROVIDE 3 FEET OF COVER MINIMUM FOR ALL PROPOSED WATER LINES.
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- P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
- CAUTION: VERIFY LOCATION & DEPTH OF EXISTING GAS MAIN IN THE AREA OF CONSTRUCTION, BEFORE INSTALLING WATER LINE.

WATERLINE CONNECTION TABLE				
NAME	TEE LOCATION	LENGTH	PUBLIC MATERIAL	PRIVATE MATERIAL
Service Stub	N: E:	30'	MUNICIPAL	MUNICIPAL

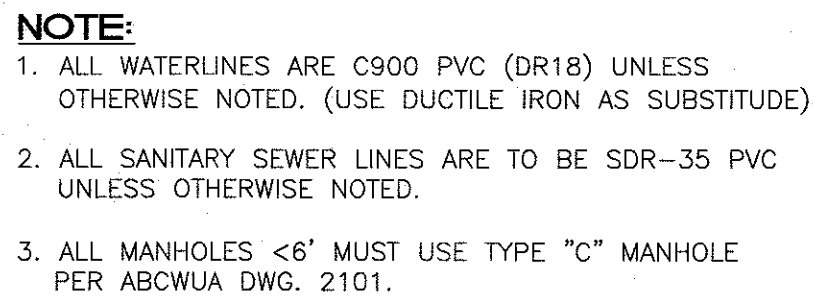
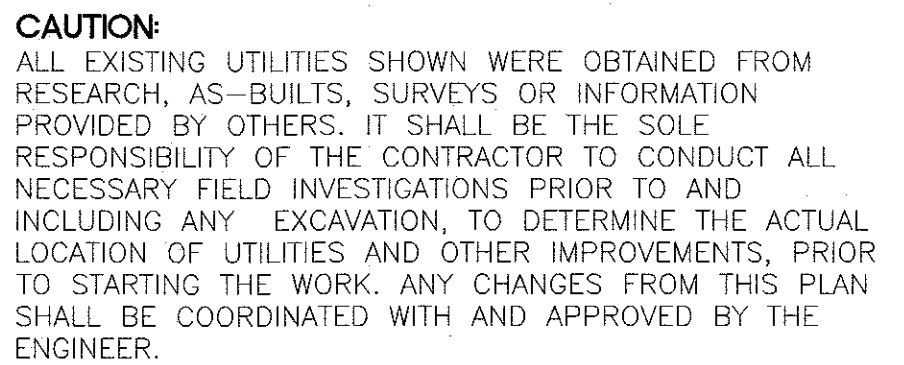
SERVICE PIPE NOTE:
ALL MUNICIPEX PIPE COMPRESSION FITTINGS SHALL BE INSTALLED WITH INSERT STIFFENERS TO PREVENT THE COLLAPSE OF WATER SERVICE TUBING.

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 - ALL MANHOLES <6" MUST USE TYPE "C" MANHOLE PER ABCWUA DWG. 2101.

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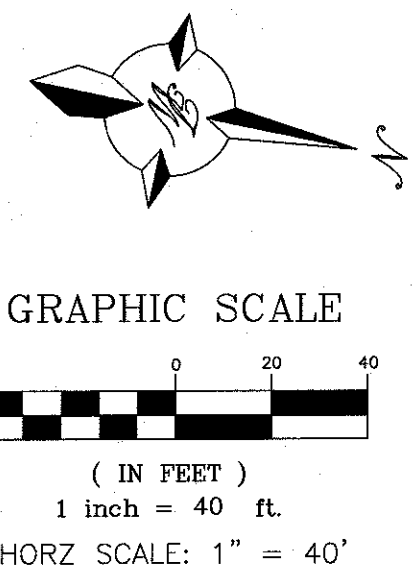
PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: RIO GRANDE CROSSING WEST (SOUTH) FLORAL RD. UTILITY IMPROVEMENTS	
DESIGN REVIEW COMMITTEE APPROVED May 13, 2022	CITY ENGINEER APPROVAL APPROVED July 19, 2022
CITY PROJECT NO. 759483	ZONE MAP NO. H-13-Z
SHEET 14 of 17	



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OF MY KNOWLEDGE AND BELIEF.

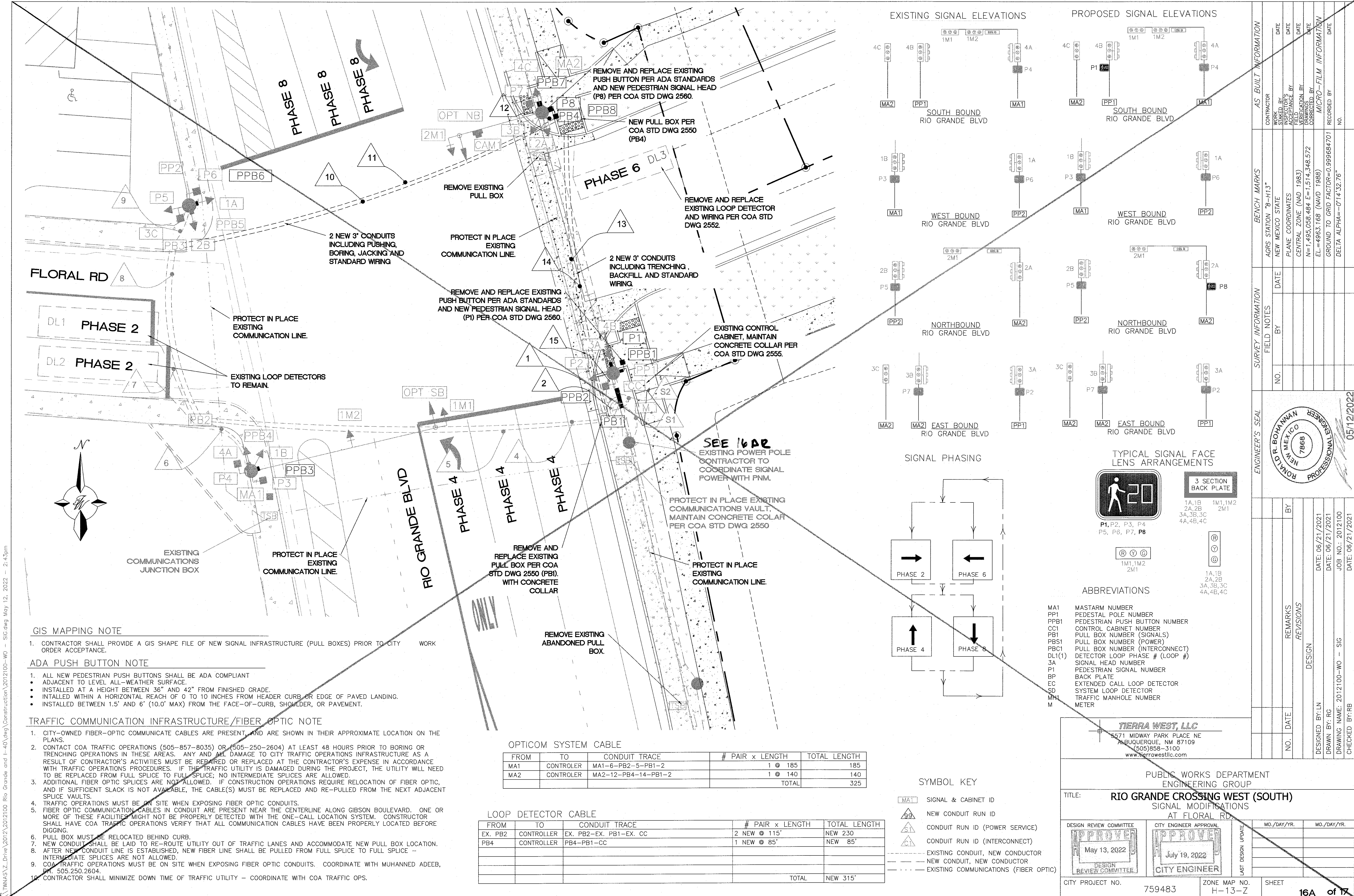
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.

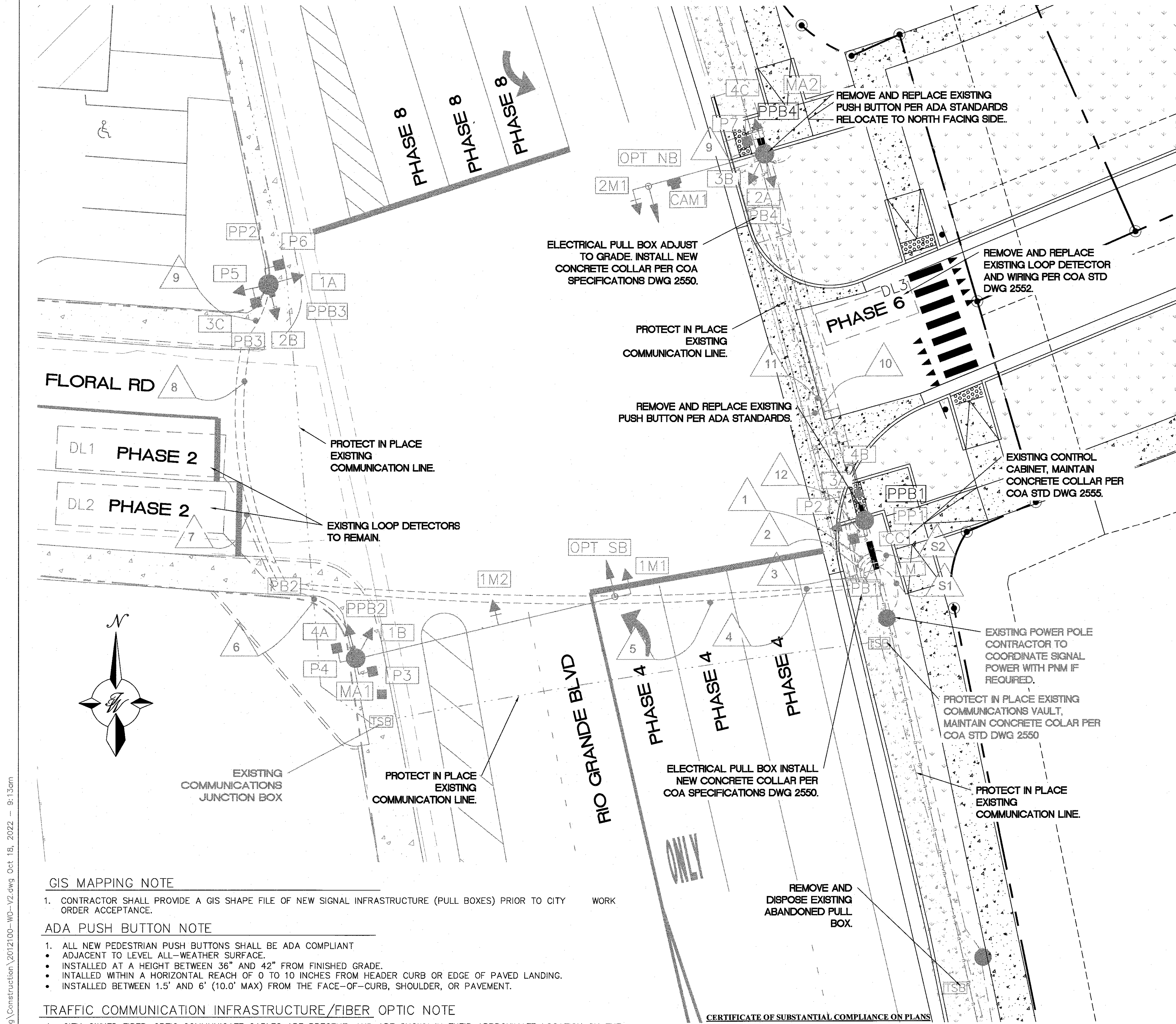
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.



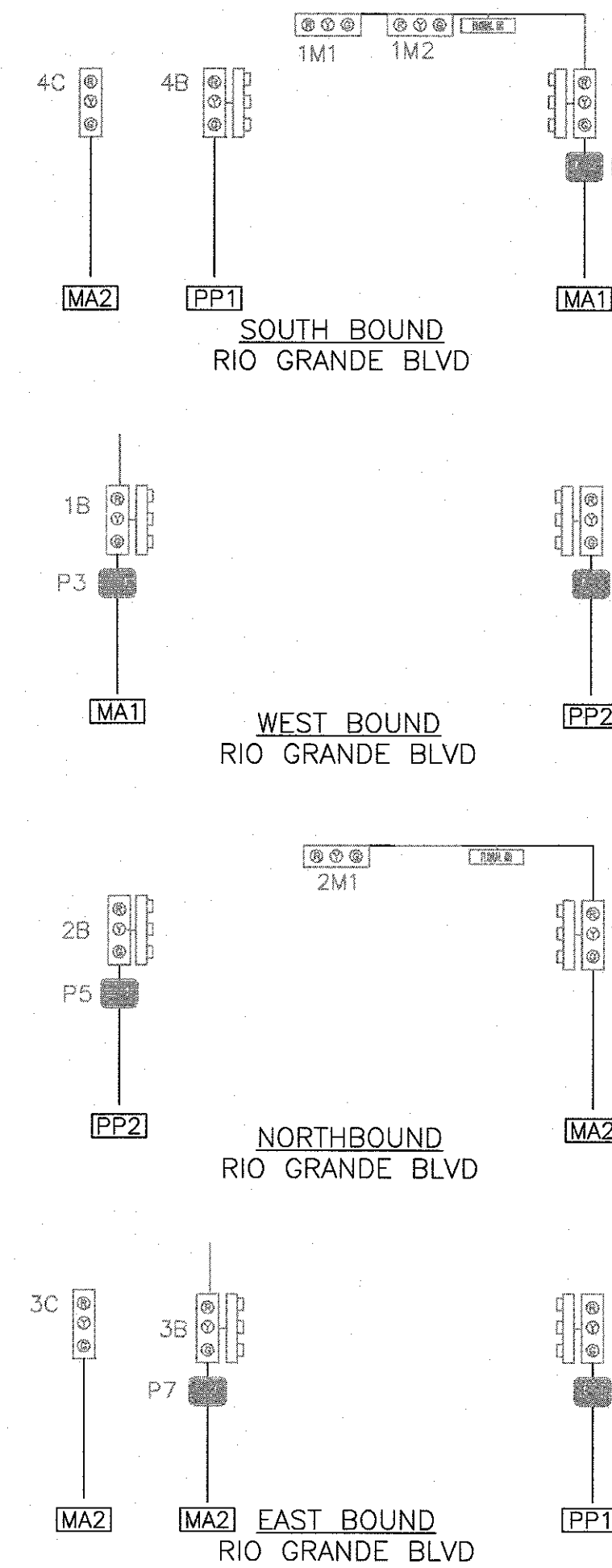
*MEASURED FROM THE CENTER OF MANHOLE

5 of 17

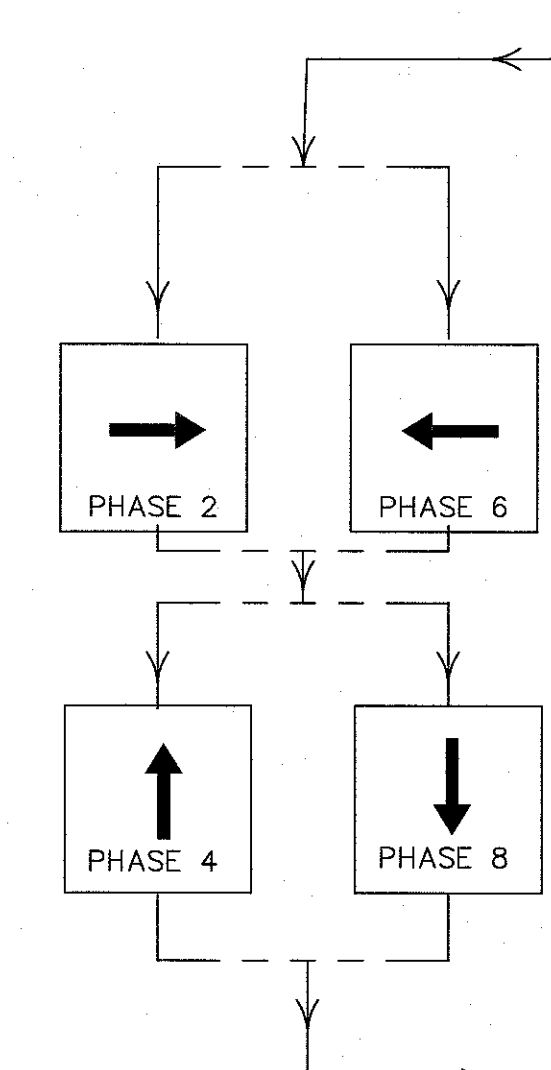




EXISTING SIGNAL ELEVATIONS



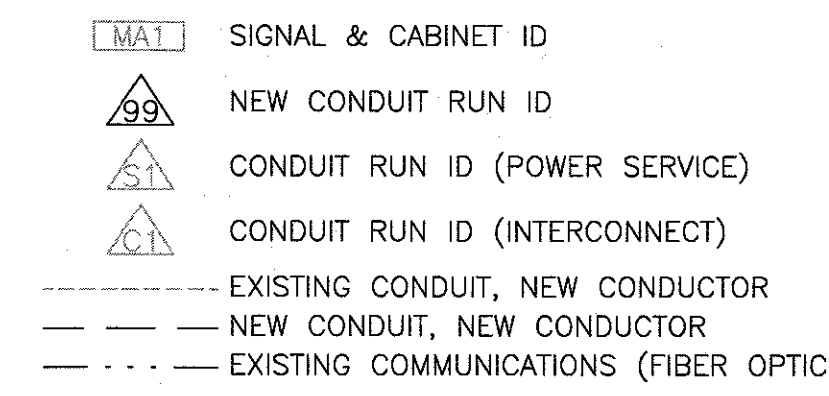
SIGNAL PHASING



ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
PBC1	PULL BOX NUMBER (INTERCONNECT)
DL1(1)	DETECTOR LOOP PHASE # (LOOP #)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL LOOP DETECTOR
SD	SYSTEM LOOP DETECTOR
MH1	TRAFFIC MANHOLE NUMBER
M	METER

SYMBOL KEY



GIS MAPPING NOTE

1. CONTRACTOR SHALL PROVIDE A GIS SHAPE FILE OF NEW SIGNAL INFRASTRUCTURE (PULL BOXES) PRIOR TO CITY ORDER ACCEPTANCE.

ADA PUSH BUTTON NOTE

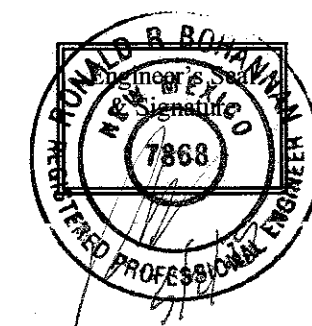
1. ALL NEW PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT
- ADJACENT TO LEVEL ALL-WEATHER SURFACE.
- INSTALLED AT A HEIGHT BETWEEN 36" AND 42" FROM FINISHED GRADE.
- INSTALLED WITHIN A HORIZONTAL REACH OF 0 TO 10 INCHES FROM HEADER CURB OR EDGE OF PAVED LANDING.
- INSTALLED BETWEEN 1.5' AND 6' (10.0' MAX) FROM THE FACE-OF-CURB, SHOULDER, OR PAVEMENT.

TRAFFIC COMMUNICATION INFRASTRUCTURE/FIBER OPTIC NOTE

1. CITY-OWNED FIBER-OPTIC COMMUNICATE CABLES ARE PRESENT, AND ARE SHOWN IN THEIR APPROXIMATE LOCATION ON THE PLANS.
2. CONTACT COA TRAFFIC OPERATIONS (505-857-8035) OR (505-250-2604) AT LEAST 48 HOURS PRIOR TO BORING OR TRENCHING OPERATIONS IN THESE AREAS. ANY AND ALL DAMAGE TO CITY TRAFFIC OPERATIONS INFRASTRUCTURE AS A RESULT OF CONTRACTOR'S ACTIVITIES MUST BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH TRAFFIC OPERATIONS PROCEDURES. IF THE TRAFFIC UTILITY IS DAMAGED DURING THE PROJECT, THE UTILITY WILL NEED TO BE REPLACED FROM FULL SPLICE TO FULL SPLICE; NO INTERMEDIATE SPLICES ARE ALLOWED.
3. ADDITIONAL FIBER OPTIC SPLICES ARE NOT ALLOWED. IF CONSTRUCTION OPERATIONS REQUIRE RELOCATION OF FIBER OPTIC, AND IF SUFFICIENT SLACK IS NOT AVAILABLE, THE CABLE(S) MUST BE REPLACED AND RE-PULLED FROM THE NEXT ADJACENT SPLICE VAULTS.
4. TRAFFIC OPERATIONS MUST BE ON SITE WHEN EXPOSING FIBER OPTIC CONDUITS.
5. FIBER OPTIC COMMUNICATION CABLES IN CONDUIT ARE PRESENT NEAR THE CENTERLINE ALONG GIBSON BOULEVARD. ONE OR MORE OF THESE FACILITIES MIGHT NOT BE PROPERLY DETECTED WITH THE ONE-CALL LOCATION SYSTEM. CONTRACTOR SHALL HAVE COA TRAFFIC OPERATIONS VERIFY THAT ALL COMMUNICATION CABLES HAVE BEEN PROPERLY LOCATED BEFORE DIGGING.
6. PULL BOX MUST BE RELOCATED BEHIND CURB.
7. NEW CONDUIT SHALL BE LAID TO RE-ROUTE UTILITY OUT OF TRAFFIC LANES AND ACCOMMODATE NEW PULL BOX LOCATION.
8. AFTER NEW CONDUIT LINE IS ESTABLISHED, NEW FIBER LINE SHALL BE PULLED FROM FULL SPLICE TO FULL SPLICE - INTERMEDIATE SPLICES ARE NOT ALLOWED.
9. COA TRAFFIC OPERATIONS MUST BE ON SITE WHEN EXPOSING FIBER OPTIC CONDUITS. COORDINATE WITH MUHAMMED ADEEB, PH. 505.250.2604.
10. CONTRACTOR SHALL MINIMIZE DOWN TIME OF TRAFFIC UTILITY - COORDINATE WITH COA TRAFFIC OPS.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



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5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505) 858-3100
www.tierrowestllc.com

PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: RIO GRANDE CROSSING WEST (SOUTH) SIGNAL MODIFICATIONS AT FLORAL RD.	
DESIGN REVIEW COMMITTEE APPROVED Oct. 20, 2022 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED Oct. 20, 2022 CITY ENGINEER
CITY PROJECT NO. 759483	ZONE MAP NO. H-13-Z
SHEET 16AR of 17	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: Tierra West LLC	DATE: 10/20/2022	AGRS STATION: 78-H13"	NEW MEXICO STATE	FIELD NO.:	DATE:		10/19/2022
STAKED BY: Carroll	DATE: 10/20/2022	PLANE COORDINATES	CENTRAL ZONE (NAD 1983)	BY:			
INSPECTOR'S FIELD VERIFICATION BY: Carroll	DATE: 10/20/2022		N=1,495,056.484 E=1,514,348.572	NO.:			
FIELD CORRECTED BY: Carroll	DATE: 10/20/2022		EL=4963.168 (NAVD 1986)				
MICRO-FILM INFORMATION			GROUND TO GRID FACTOR=0.999684701				
RECORDED BY:	DATE:		DELTA ALPHA=-0.1432.76"				

SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE-MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED FROM THE MASTARM BASE TO THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
6. ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS(857-8044) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
9. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL PAY THE LOCAL POWER COMPANY ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
10. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
11. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
12. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
13. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
14. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
15. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULLBOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
16. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
17. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
18. THE CONTRACTOR SHALL VIDEO TAPE THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN VHS FORMAT AND REVIEW THE TAPE WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE TAPE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
19. CABINET AND CONTROLLER NEED TO BE I.D.C. 820A.
20. THE CONTRACTOR SHALL PROVIDE GEOGRAPHIC INFORMATION SYSTEM (GIS) DOCUMENTATION OF ALL EQUIPMENT AND INFRASTRUCTURE INSTALLED. GIS MAPPING SHALL BE PERFORMED BY A QUALIFIED AGENT OR FIRM AND BE PROVIDED TO CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION (CABQ TED) FOR REVIEW AND ACCEPTANCE. CABQ TED WILL PROVIDE GIS SCHEMA TO BE USED BY THE CONTRACTOR OR CONTRACTOR'S AGENT/FIRM. CONTRACTOR SHALL COLLECT GPS COORDINATES, PHOTOS, AND ATTRIBUTES FOR CONSTRUCTED OR MODIFIED FIELD INFRASTRUCTURE ITEMS AS DIRECTED BY CABQ TED AND AS SHOWN IN THE CABQ TED PROVIDED GIS SCHEMA. AN ESRI FILE GEODATABASE SHALL BE USED TO STORE AND DELIVER COLLECTED DATA. DATA COLLECTION SHALL BE PERFORMED USING GPS EQUIPMENT ACCURATE TO 2.5 METERS, AND ALL COLLECTED FEATURES SHALL BE ACCURATE TO 2.5 METERS. DATA SHALL BE IN THE PROJECTION NAD83 HARN STATEPLANE NEW MEXICO CENTRAL FEET. DATA COLLECTION USING AERIAL IMAGERY AND/OR AS-BUILD DRAWINGS SHALL NOT BE ALLOWED UNLESS EXPLICITLY STATED BY CABQ TED PRIOR TO DATA COLLECTION. CONTACT DMGIS@CABQ.GOV FOR THE SCHEMA AND ANY GIS RELATED QUESTIONS.

INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF NON SALVAGEBLE MATERIAL TO BE DISPOSED TO CITY LANDFILL.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL
12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.

* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

NOTE

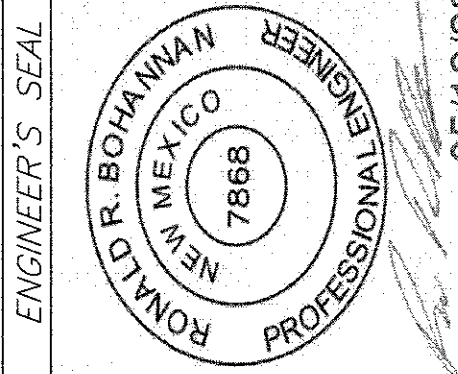
1. EXISTING TRAFFIC SIGNAL EQUIPMENT TO REMAIN AS IS UNLESS NOTED IN BOLD ON THIS SHEET TO BE RELOCATED OR REPLACED
2. ALL INSTALLATIONS MUST MEET MUTCD AND CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS.
3. FIBER COMMUNICATIONS SHALL REMAIN FULLY OPERATIONAL DURING AND AFTER CONSTRUCTION. IF FIBER GETS DAMAGED OR IS DISTURBED DURING CONSTRUCTION AS A TEMPORARY MEASURE THE CONTRACTOR WILL BE RESPONSIBLE FOR GETTING FIBER UTILITY FULLY OPERATIONAL WITHIN 24 HOURS. AS A PERMANENT FIX THE FIBER SHALL BE REPLACED FROM EXISTING FULL SPLICE TO EXISTING FULL SPLICE, AT CONTRACTORS EXPENSE. NO INTERMEDIATE FULL SPLICES ARE ALLOWED.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR DISTURBANCE OF EXISTING TRAFFIC SIGNAL AND ITS INFRASTRUCTURE AND WILL BE RESPONSIBLE FOR FULL REPLACEMENT.
5. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING FIBER OPTICS INTER CONNECT PRIOR TO BEGINNING ANY WORK WITHIN OR AROUND THE INTERSECTION. DAMAGE TO FIBER OPTICS AS A RESULT OF CONSTRUCTION ACTIVITIES WILL BE REPLACED AT CONTRACTOR'S COST. INTERCONNECT CABLE NOT MEETING THE MINIMUM 2' COVER REQUIREMENT TO FINISH GRADE WILL BE ENCASED IN CONCRETE TO PROVIDE PROTECTION FROM ROADWAY AND CONSTRUCTION LOADINGS.
6. NEW PULL BOXES SHALL BE LARGE SIZE.

DEFINITIONS

1. "ENGINEER" -- FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER (SIGNAL)
		CONDUIT RUN NUMBER (POWER SERVICE)
		CONDUIT RUN NUMBER (INTERCONNECT)
		CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE,
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE
		VIDEO CAMERA



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PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: **RIO GRANDE CROSSING WEST (SOUTH)**
SIGNAL STANDARD NOTES AND LEGEND

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 16 of 17

SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
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4. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
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7. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
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12. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
13. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
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15. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULLBOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
16. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
17. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
18. THE CONTRACTOR SHALL VIDEO TAPE THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN VHS FORMAT AND REVIEW THE TAPE WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE TAPE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
19. CABINET AND CONTROLLER NEED TO BE I.D.C. 820A.
20. THE CONTRACTOR SHALL PROVIDE GEOGRAPHIC INFORMATION SYSTEM (GIS) DOCUMENTATION OF ALL EQUIPMENT AND INFRASTRUCTURE INSTALLED. GIS MAPPING SHALL BE PERFORMED BY A QUALIFIED AGENT OR FIRM AND BE PROVIDED TO CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION (CABQ TED) FOR REVIEW AND ACCEPTANCE. CABQ TED WILL PROVIDE GIS SCHEMA TO BE USED BY THE CONTRACTOR OR CONTRACTOR'S AGENT/FIRM. CONTRACTOR SHALL COLLECT GPS COORDINATES, PHOTOS, AND ATTRIBUTES FOR CONSTRUCTED OR MODIFIED FIELD INFRASTRUCTURE ITEMS AS DIRECTED BY CABQ TED AND AS SHOWN IN THE CABQ TED PROVIDED GIS SCHEMA. AN ESRI FILE GEODATABASE SHALL BE USED TO STORE AND DELIVER COLLECTED DATA. DATA COLLECTION SHALL BE PERFORMED USING GPS EQUIPMENT ACCURATE TO 2.5 METERS, AND ALL COLLECTED FEATURES SHALL BE ACCURATE TO 2.5 METERS. DATA SHALL BE IN THE PROJECTION NAD83 HARN STATEPLANE NEW MEXICO CENTRAL FEET. DATA COLLECTION USING AERIAL IMAGERY AND/OR AS-BUILT DRAWINGS SHALL NOT BE ALLOWED UNLESS EXPLICITLY STATED BY CABQ TED PRIOR TO DATA COLLECTION. CONTACT DMDGIS@CABQ.GOV FOR THE SCHEMA AND ANY GIS RELATED QUESTIONS.

INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF NON SALVAGEBLE MATERIAL TO BE DISPOSED TO CITY LANDFILL.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.
- * ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.
- NOTE
1. EXISTING TRAFFIC SIGNAL EQUIPMENT TO REMAIN AS IS UNLESS NOTED IN BOLD ON THIS SHEET TO BE RELOCATED OR REPLACED
2. ALL INSTALLATIONS MUST MEET MUTCD AND CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS.
3. FIBER COMMUNICATIONS SHALL REMAIN FULLY OPERATIONAL DURING AND AFTER CONSTRUCTION. IF FIBER GETS DAMAGED OR IS DISTURBED DURING CONSTRUCTION AS A TEMPORARY MEASURE THE CONTRACTOR WILL BE RESPONSIBLE FOR GETTING FIBER UTILITY FULLY OPERATIONAL WITHIN 24 HOURS. AS A PERMANENT FIX THE FIBER SHALL BE REPLACED FROM EXISTING FULL SPLICE TO EXISTING FULL SPLICE, AT CONTRACTORS EXPENSE. NO INTERMEDIATE FULL SPLICES ARE ALLOWED.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR DISTURBANCE OF EXISTING TRAFFIC SIGNAL AND ITS INFRASTRUCTURE AND WILL BE RESPONSIBLE FOR FULL REPLACEMENT.
5. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING FIBER OPTICS INTER CONNECT PRIOR TO BEGINNING ANY WORK WITHIN OR AROUND THE INTERSECTION. DAMAGE TO FIBER OPTICS AS A RESULT OF CONSTRUCTION ACTIVITIES WILL BE REPLACED AT CONTRACTOR'S COST. INTERCONNECT CABLE NOT MEETING THE MINIMUM 2' COVER REQUIREMENT TO FINISH GRADE WILL BE ENCASED IN CONCRETE TO PROVIDE PROTECTION FROM ROADWAY AND CONSTRUCTION LOADINGS.
6. NEW PULL BOXES SHALL BE LARGE SIZE.

TRAFFIC SIGNAL LEGEND

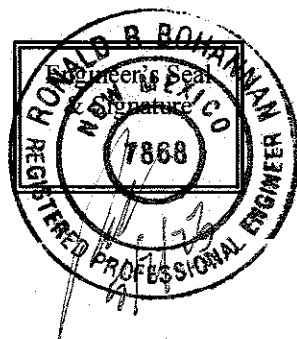
NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER (SIGNAL)
		CONDUIT RUN NUMBER (POWER SERVICE)
		CONDUIT RUN NUMBER (INTERCONNECT)
		CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE
		VIDEO CAMERA

DEFINITIONS

1. "ENGINEER" - FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



TIERRA WEST, LLC
5571 MIDWAY PARK PLACE, NE
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PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **RIO GRANDE CROSSING WEST (SOUTH)**
SIGNAL STANDARD NOTES AND LEGEND

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 16R of 17

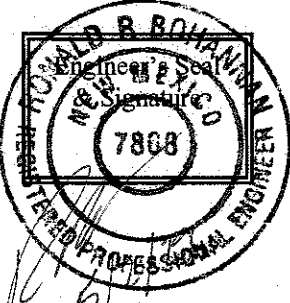
CONDUIT AND CONDUCTOR REQUIREMENTS														
CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE									
RUN ID ##	SIZE/LENGTH (FT)			TYPE	REMARKS	MCC 5 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	SCC #6 (# @ FT)	SCC #8 (# @ FT)	DLLIC (# @ FT)	OPTICOM (# @ FT)	VIDEO (# @ FT)	VIDEO COAXIAL (# @ FT)
	2"	3"	4"											
S1	EXISTING			REC	POWER TO METER			PER PNM						
S2	EXISTING			REC	METER TO CC			PER PNM						
1		10		REC	CC TO PB1	1 @ 15	2 @ 15		2 @ 15					
2		10		REC	CC TO PB1						3 @ 15	2 @ 15	1 @ 15	1 @ 15
3														
4	EXISTING			REC	PB1 TO PB2	1 @ 100	2 @ 100		2 @ 100					
5	EXISTING			REC	PB1 TO PB2						2 @ 100	2 @ 100	1 @ 100	1 @ 100
6	EXISTING			REC	PB2 TO MA1	1 @ 20	2 @ 20		2 @ 20			1 @ 20		
7	EXISTING			REC	PB2 TO PB3	1 @ 40	2 @ 40		2 @ 40					
8	EXISTING			REC	PB2 TO PB3							1 @ 40	1 @ 40	1 @ 40
9	EXISTING			REC	PB3 TO PP2	1 @ 20	2 @ 20		2 @ 20					
10		90		REC	PB3 TO PB4	1 @ 90	2 @ 90		2 @ 90					
11		90		REC	PB3 TO PP4							1 @ 90	1 @ 90	1 @ 90
12			5	REC	PB4 TO MA2	1 @ 15	2 @ 15		2 @ 15			1 @ 15	1 @ 15	1 @ 15
13		70		REC	PB4 TO PB1	1 @ 70	2 @ 70		2 @ 70					
14		70		REC	PB4 TO PB1						1 @ 70	1 @ 70	1 @ 70	1 @ 70
15		10		REC	PB1 TO PP1	1 @ 70	2 @ 70		2 @ 70					
MA1					BASE TO PPB3,PPB4	2 @ 15								
MA1					BASE TO P3 AND P4	2 @ 15								
MA1					BASE TO 4A	1 @ 15								
MA1					BASE TO 1B	1 @ 15								
MA1					BASE TO 1M1	1 @ 50								
MA1					BASE TO 1M2	1 @ 40								
MA1					BASE TO OPTICOM SB							1 @ 50		
MA2					BASE TO PPB7, PPB8	2 @ 15								
MA2					BASE TO P8, P7	2 @ 15								
MA2					BASE TO 2A	1 @ 15								
MA2					BASE TO 3B, 4C	2 @ 15								
MA2					BASE TO 2M1	1 @ 50								
MA2					BASE TO OPTICOM NB							1 @ 40		
MA2					BASE TO CAM 1								1 @ 20	1 @ 20
PP1					BASE TO PPB1, PPB2	2 @ 15								
PP1					BASE TO P2 AND P1	2 @ 15								
PP1					BASE TO 3A, 4B	2 @ 15								
PP2					BASE TO PPB5, PPB6	2 @ 15								
PP2					BASE TO 1A	1 @ 15								
PP2					BASE TO 2B, 3C	2 @ 15								
PP2					BASE TO P5, P6	2 @ 15								
TOTALS		350'	5			970"	880'		880'		315'	455'	350'	350'

SIGNAL NOTES

1. SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM FACE OF CURB, UNLESS OTHERWISE NOTED.
2. ALL WIRE ON THIS PROJECT SHALL BE COPPER
3. SIGNAL HEADS SHALL BE COVERED WHEN NECESSARY WITH PACIFIC ENTERPRISES SIGNAL COVERS OR APPROVED EQUAL.
4. THE CONTRACTOR IS HEREBY ADVISED THAT THE INTERSECTION SIGNALS SHALL NOT BE TURNED ON UNTIL THE SIGNAL IS COMPLETELY INSTALLED, INCLUDING FULLY ACTUATED OPERATION (ALL LOOPS AND PUSHBUTTON WIRING SHALL BE OPERATIONAL).
5. FLASHING OPERATION IS NOT CONSIDERED THE BEGINNING OF THE FIELD TESTING PERIOD.
6. ACCEPTABLE TYPE II AND TYPE III STANDARDS ARE VALMONT, UNION METAL, JEM, OR APPROVED EQUAL.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE POWER AND MAINTENANCE UNTIL SUCH TIME AS THE SIGNAL IS ACCEPTED FOR MAINTENANCE BY THE CITY OF ALBUQUERQUE.
8. THE CONTRACTOR SHALL REMOVE AND SALVAGE TO COA YARD ALL CONFLICTING SIGNING WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
9. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES. THE REQUIREMENTS FOR SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE.
10. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
11. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



ABBREVIATIONS

- CC 6 COMMUNICATION CABLE--6 PAIR
- CC 12 COMMUNICATION CABLE--12 PAIR
- DLLIC DETECTOR LOOP LEAD IN CABLE
- MA MASTARM
- MCC MULTI CONDUCTOR CABLE
- PB PULL BOX
- PP PEDESTAL POLE
- PPB PEDESTRIAN PUSH BUTTON
- REC RIGID ELECTRIC CONDUIT
- SCC SINGLE CONDUCTOR CABLE
- CAM VIDEO CAMERA

TERRA WEST, LLC

5571 MIDWAY PARK PLACE NE

ALBUQUERQUE, NM 87109

(505)858-3100

www.tierrowestllc.com

DESIGNED BY: LN

DRAWN BY: RG

DRAWING NAME: 2012100-WO - SIG

CHECKED BY: RB

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: RIO GRANDE CROSSING WEST (SOUTH)

CABLES AND CONDUITS

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

MO./DAY/YR.

MO./DAY/YR.

APPROVED

May 13, 2022

DESIGN REVIEW COMMITTEE

APPROVED

July 19, 2022

CITY ENGINEER

CITY PROJECT NO.

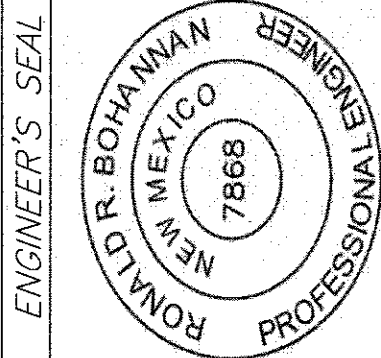
759483

ZONE MAP NO.

H-13-Z

SHEET

16B of 17



05/12/2022

FUNCTION CHART – 115 VOLT CIRCUIT

1/

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	—	SPARE	SPARE	SPARE	SPARE
2	WHITE	—	SPARE	SPARE	SPARE	SPARE
3	RED	—	PHASE 1 RED	—	PHASE 5 RED	—
4	GREEN	—	PHASE 1 GREEN	—	PHASE 5 GREEN	—
5	ORANGE	—	PHASE 1 YELLOW	—	PHASE 5 YELLOW	—
6	BLUE	—	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 3A,3B,3C	PHASE 6 RED	RED BALL 1A1B
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 3A,3B,3C	PHASE 6 GREEN	GREEN BALL 1A,1B
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 3A,3B,3C	PHASE 6 YELLOW	YELLOW BALL 1A,1B
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P2, P7	PHASE 6 WALK	PEDESTRIAN WALK P6,P3
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P2, P7	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P6,P3
13	RED	WHITE	PHASE 3 RED	—	PHASE 7 RED	—
14	GREEN	WHITE	PHASE 3 GREEN	—	PHASE 7 GREEN	—
15	BLUE	WHITE	PHASE 3 YELLOW	—	PHASE 7 YELLOW	—
16	BLACK	RED	PHASE 4 RED	RED BALL 2A,2B,2M1	PHASE 8 RED	RED BALL 4A,4B,4C,1M1,1M2
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 2A,2B,2M1	PHASE 8 GREEN	GREEN BALL 4A,4B,4C,1M1,1M2
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 2A,2B,2M1	PHASE 8 YELLOW	YELLOW BALL 4A,4B,4C,1M1,1M2
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P8,P5	PHASE 8 WALK	PEDESTRIAN WALK P1,P4
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P8,P5	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P1,P4

FUNCTION CHART – 24 VOLT CIRCUIT

3/

MULTI CONDUCTOR CABLE 5			
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB4,PPB2
2	WHITE	COMMON	PPB1–PPB8
3	RED	PHASE 4 PPB	PPB1,PPB8
4	GREEN	PHASE 6 PPB	PPB7,PPB5
5	ORANGE	PHASE 8 PPB	PPB6,PPB3

DETECTOR LOOPS

LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		
DL1*	—	—	—	—	—	—	—	—	—	—	—
DL2*	—	—	—	—	—	—	—	—	—	—	—
DL3	PRESENCE	—	FIVE	CH 1	DL	30'	6'	15'	5'	304	—
TOTAL											—

* EXISTING LOOP DETECTORS TO REMAIN

QUANTITY ESTIMATING ASSUMPTIONS:

LOOP WIRE

6' X 30' OP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 269 + 2(S+T)
6' X 40' OP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 349 + 2(S+T)
6' X 50' OP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 429 + 2(S+T)
6' X 6' EC LOOP = (6*L) + (6*W) + (2*S) + (2*T) + 5 = 77 + 2(S+T)
6' X 6' SYS LOOP = (8*L) + (8*W) + (2*S) + (2*T) + 5 = 96 + 2(S+T)

PAVEMENT SAW CUT

6' X 30' OP LOOP = (3*L) + (2*W) + S = 102 + S
6' X 40' OP LOOP = (3*L) + (2*W) + S = 132 + S
6' X 50' OP LOOP = (3*L) + (2*W) + S = 162 + S
6' X 6' EC LOOP = (2*L) + (2*W) + S = 24 + S
6' X 6' SYS LOOP = (2*L) + (2*W) + S = 24 + S

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)
W = DETECTOR LOOP WIDTH (FROM PLAN)
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

ABBREVIATIONS

DL – DETECTOR LOOP
EC – EXTENDED CALL LOOP
L – DETECTOR LOOP LENGTH
W – DETECTOR LOOP WIDTH
S – SAW CUT LOOP TO CURB
T – TERMINAL LENGTH
QP – QUADRAPOLE LOOP
SDWBA – SYSTEM DETECTOR WEST BOUND APPROACH
SDWBD – SYSTEM DETECTOR WEST BOUND DEPARTURE
SDEBA – SYSTEM DETECTOR EAST BOUND APPROACH
SDEBD – SYSTEM DETECTOR EAST BOUND DEPARTURE
SDNBA – SYSTEM DETECTOR NORTH BOUND APPROACH
SDNBD – SYSTEM DETECTOR NORTH BOUND DEPARTURE
SDSBA – SYSTEM DETECTOR SOUTH BOUND APPROACH
SDSBD – SYSTEM DETECTOR SOUTH BOUND DEPARTURE

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		ø1	ø2	ø6	ø2 EC	ø3	ø4	ø8	ø4 EC	DUAL LEFT ø1	DUAL LEFT ø3	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		ø5	ø2	ø6	ø6 EC	ø7	ø4	ø8	ø8 EC	DUAL LEFT ø5	DUAL LEFT ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*					✓	✓	✓									✓	✓	✓

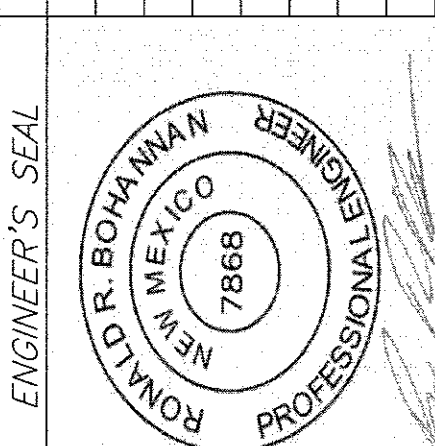
* INCIDENTAL TO CONSTRUCTION

SEE 166R

AS BUILT INFORMATION	
CONTRACTOR	WORK
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

BENCH MARKS	
AGRS STATION	NEW MEXICO STATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

SURVEY INFORMATION	
FIELD NOTES	BY
NO.	DATE
DATE	DATE
DATE	DATE
DATE	DATE



ENGINEER'S SEAL	
DATE: 06/21/2021	DATE: 06/21/2021
DATE: 06/21/2021	DATE: 06/21/2021
DATE: 06/21/2021	DATE: 06/21/2021

REVISIONS	
REVISIONS	DATE
DESIGN	DATE
DESIGN	DATE
DESIGN	DATE

REMARKS	
REMARKS	DATE
REMARKS	DATE
REMARKS	DATE
REMARKS	DATE

TERRA WEST, LLC
5671 MIDWAY PARK PLACE NE
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PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: RIO GRANDE CROSSING (SOUTH)	
FUNCTIONS AND DETECTOR TABLES	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
APPROVED May 13, 2022 DESIGN REVIEW COMMITTEE	APPROVED July 19, 2022 CITY ENGINEER
CITY PROJECT NO.	ZONE MAP NO.
759483	H-13-Z
SHEET	16C of 17

LOOP DETECTOR CABLE

FROM	TO	CONDUIT TRACE	# PAIR x LENGTH	TOTAL LENGTH
PB4	CONTROLLER	PB4-PB1-CC	1 NEW @ 85'	NEW 85'
			TOTAL	NEW 85'

DETECTOR LOOPS

LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		
DL1*	—		—	—	—	—	—	—	—	—	—
DL2*	—		—	—	—	—	—	—	—	—	—
DL3	PRESENCE		FIVE	CH 1	DL	30'	6'	15'	5'	304	—
TOTAL										304	—

* EXISTING LOOP DETECTORS TO REMAIN

QUANTITY ESTIMATING ASSUMPTIONS:

LOOP WIRE

6' X 30' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5	= 269 + 2(S+T)
6' X 40' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5	= 349 + 2(S+T)
6' X 50' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5	= 429 + 2(S+T)
6' X 6' EC LOOP	= (6*L) + (6*W) + (2*S) + (2*T) + 5	= 77 + 2(S+T)
6' X 6' SYS LOOP	= (8*L) + (8*W) + (2*S) + (2*T) + 5	= 96 + 2(S+T)

PAVEMENT SAW CUT

6' X 30' QP LOOP	= (3*L) + (2*W) + S	= 102 + S
6' X 40' QP LOOP	= (3*L) + (2*W) + S	= 132 + S
6' X 50' QP LOOP	= (3*L) + (2*W) + S	= 162 + S
6' X 6' EC LOOP	= (2*L) + (2*W) + S	= 24 + S
6' X 6 SYS LOOP	= (2*L) + (2*W) + S	= 24 + S

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)
W = DETECTOR LOOP WIDTH (FROM PLAN)
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

ABBREVIATIONS

DL - DETECTOR LOOP
EC - EXTENDED CALL LOOP
L - DETECTOR LOOP LENGTH
W - DETECTOR LOOP WIDTH
S - SAW CUT LOOP TO CURB
T - TERMINAL LENGTH
QP - QUADRAPOLE LOOP
SDWBA - SYSTEM DETECTOR WEST BOUND APPROACH
SDWBD - SYSTEM DETECTOR WEST BOUND DEPARTURE
SDEBA - SYSTEM DETECTOR EAST BOUND APPROACH
SDEBD - SYSTEM DETECTOR EAST BOUND DEPARTURE
SDNBA - SYSTEM DETECTOR NORTH BOUND APPROACH
SDNBD - SYSTEM DETECTOR NORTH BOUND DEPARTURE
SDSBA - SYSTEM DETECTOR SOUTH BOUND APPROACH
SDSBD - SYSTEM DETECTOR SOUTH BOUND DEPARTURE

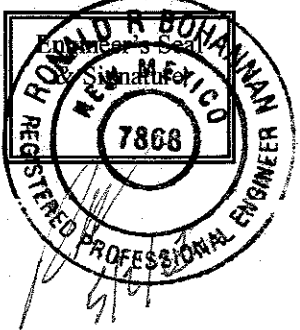
DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		ø1	ø2	ø6	ø2 EC	ø3	ø4	ø8	ø4 EC	DUAL LEFT ø1	DUAL LEFT ø3	SD 1	SD 3	SD 5	SD 7	SD 9	P E D I S O L A T I O N	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		ø5	ø2	ø6	ø6 EC	ø7	ø4	ø8	ø8 EC	DUAL LEFT ø5	DUAL LEFT ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*					✓	✓	✓									✓	✓	✓

* INCIDENTAL TO CONSTRUCTION

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



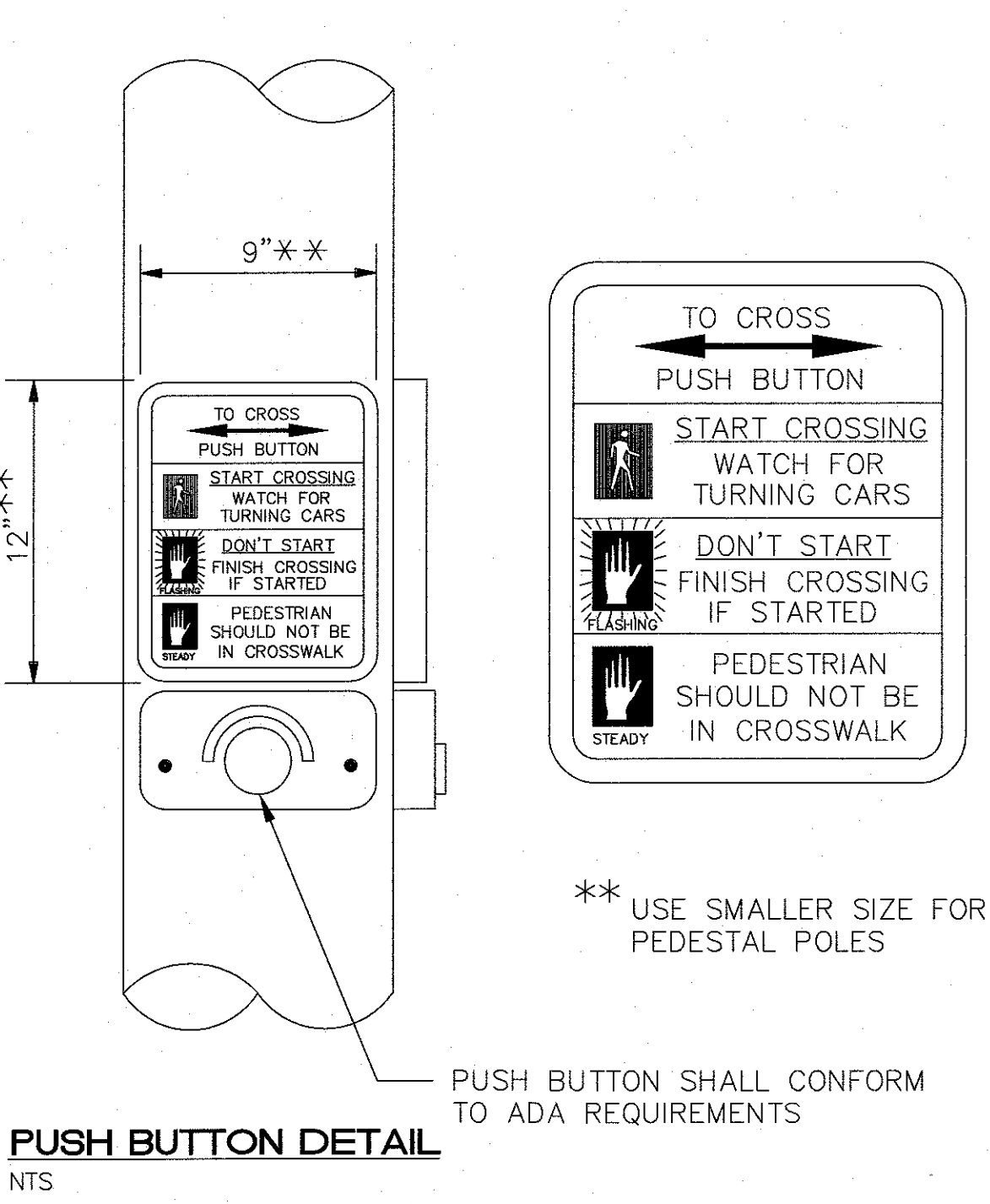
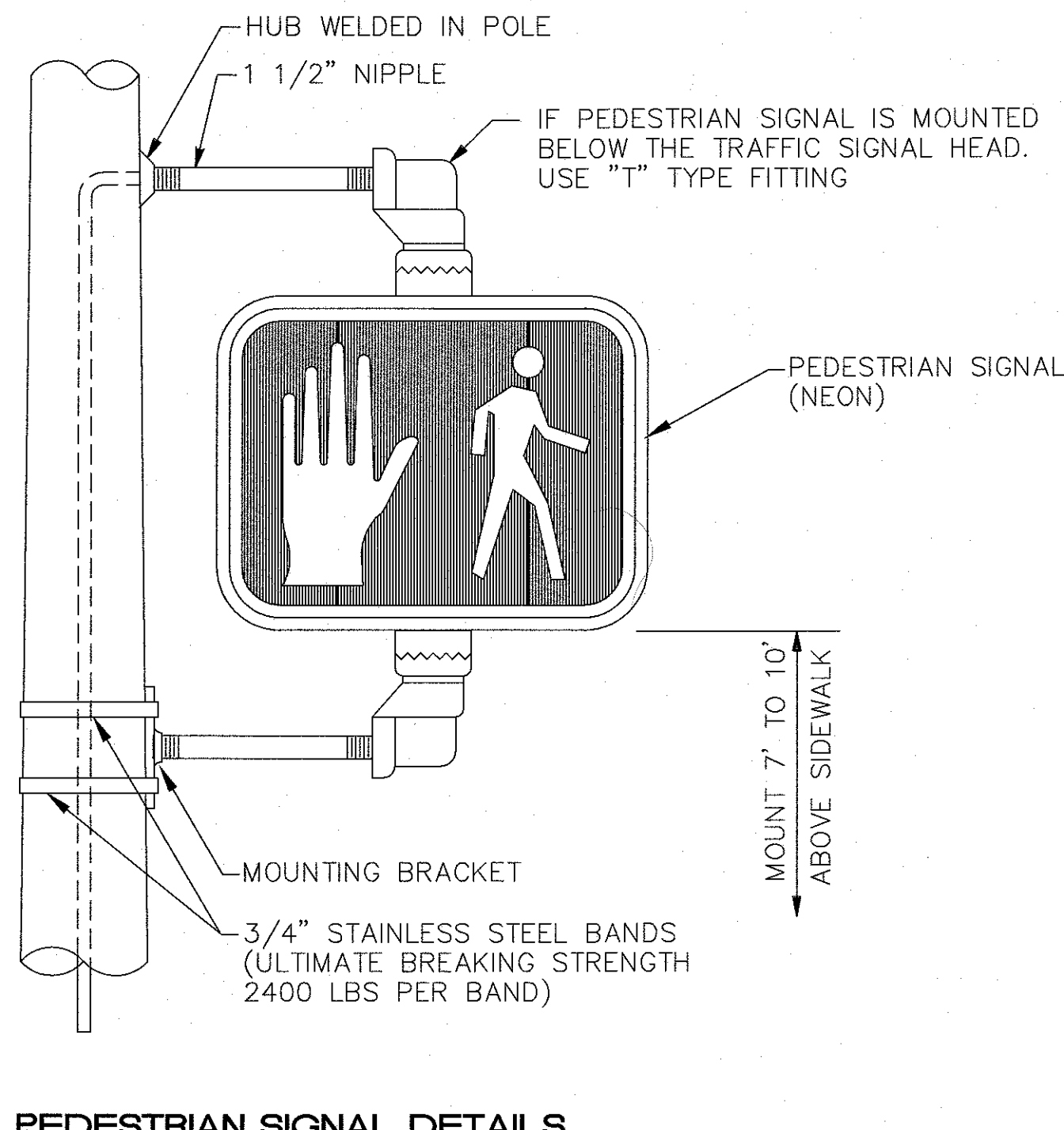
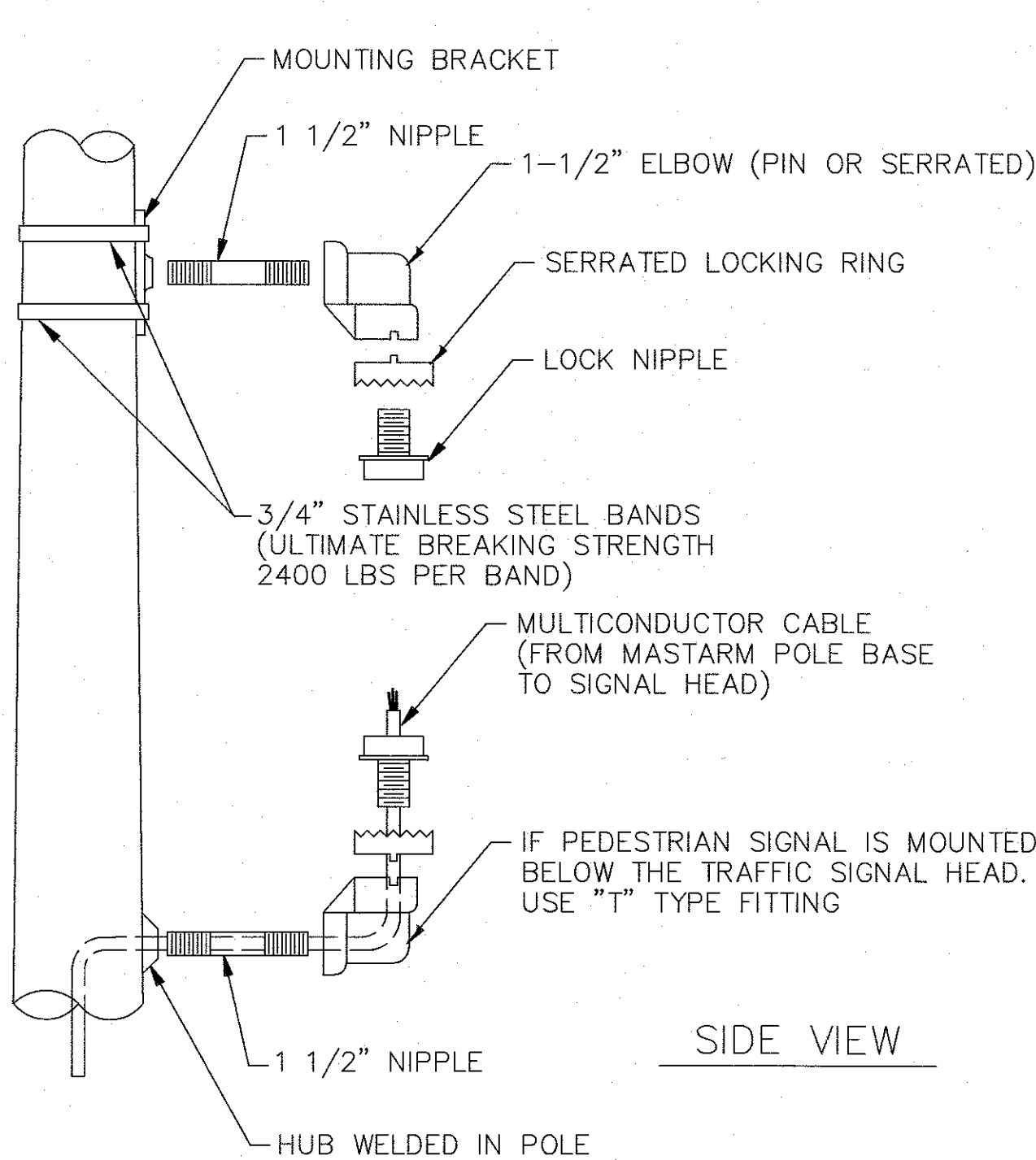
TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100
www.tierrawestllc.com

PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **RIO GRANDE CROSSING WEST (SOUTH)**
FUNCTIONS AND DETECTOR TABLES

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED Oct. 20, 2022 DESIGN REVIEW COMMITTEE	APPROVED Oct. 20, 2022 CITY ENGINEER			

CITY PROJECT NO. 759483 ZONE MAP NO. H-13-Z SHEET 16 of 17



THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

SIZE	LENGTH ALONG RUN**				
	10'	8'	6'	4'	2'
12x12x12	61	68	76	83	90
12x12x10	39	48	56	65	74
12x12x8	15	26	37	48	59
12x12x6	1	1	9	24	38
12x12x4	1	1	1	1	16
10x10x10	46	54	61	68	76
10x10x8	25	34	43	52	61
10x10x6	1	5	17	29	41
10x10x4	1	1	1	2	20
8x8x8	34	42	49	56	63
8x8x6	6	15	25	34	43
8x8x4	1	1	1	10	24
6x6x6	7	24	31	39	46
6x6x4	1	1	6	17	27

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

SIZE	HORIZONTAL BENDS				
	90°	45°	22-1/2°	11-1/4°	DEAD END
12	45	19	9	4	102
10	38	16	8	4	86
8	32	13	6	3	72
6	25	10	5	2	55
4	18	7	4	1	39

SIZE	L. SIDE		R. SIDE	
	SIZE	VALVES	SIZE	VALVES
12x10	50	10x6	53	
12x8	54	10x4	70	
12x6	74	8x6	30	
12x4	88	8x4	52	
10x8	29	6x4	28	

***RESTRAINTS ONLY PLACED ON LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

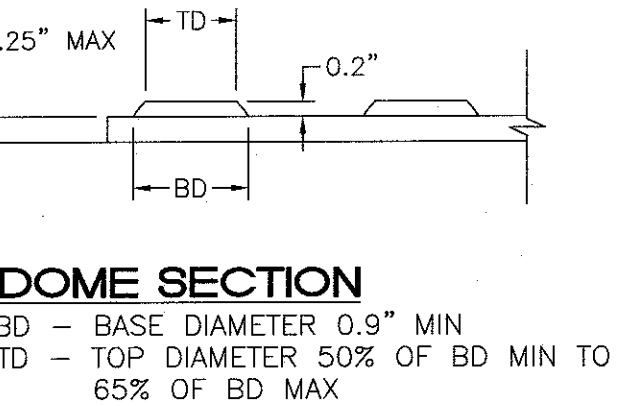
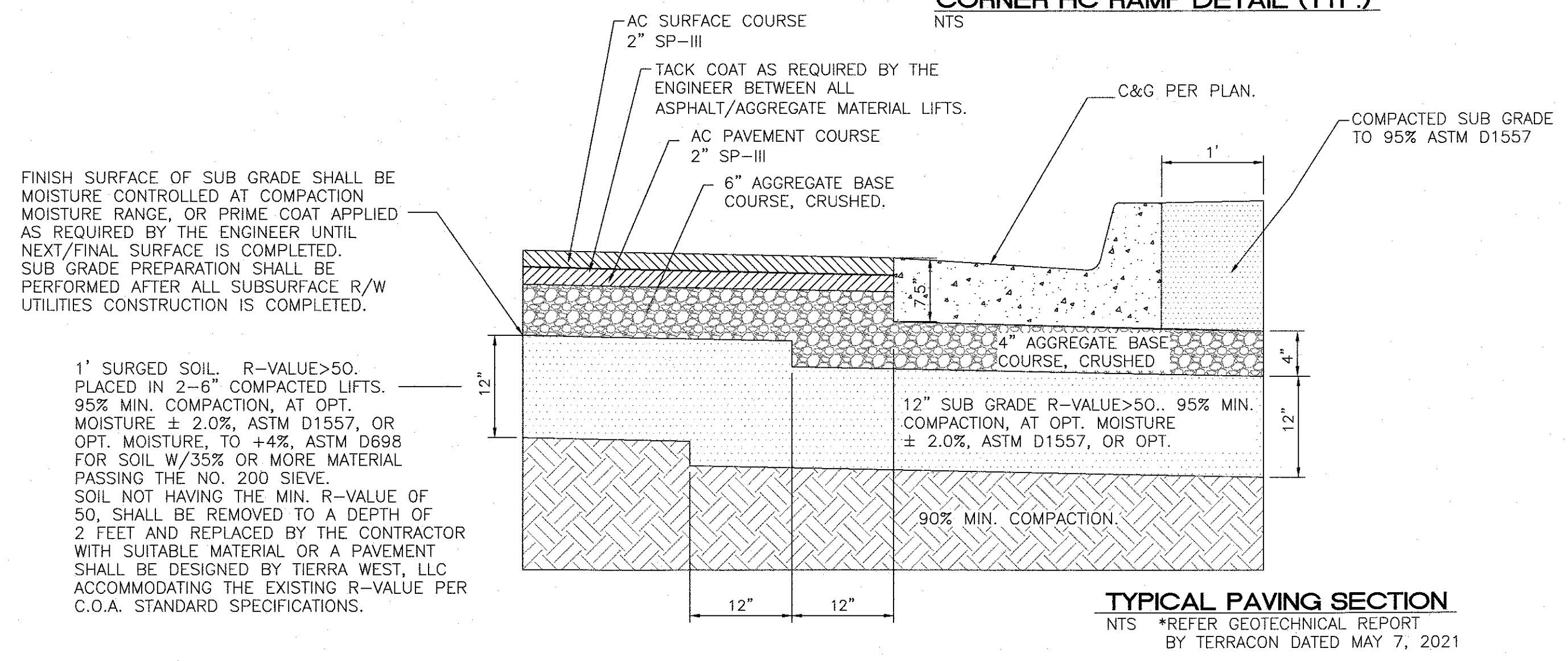
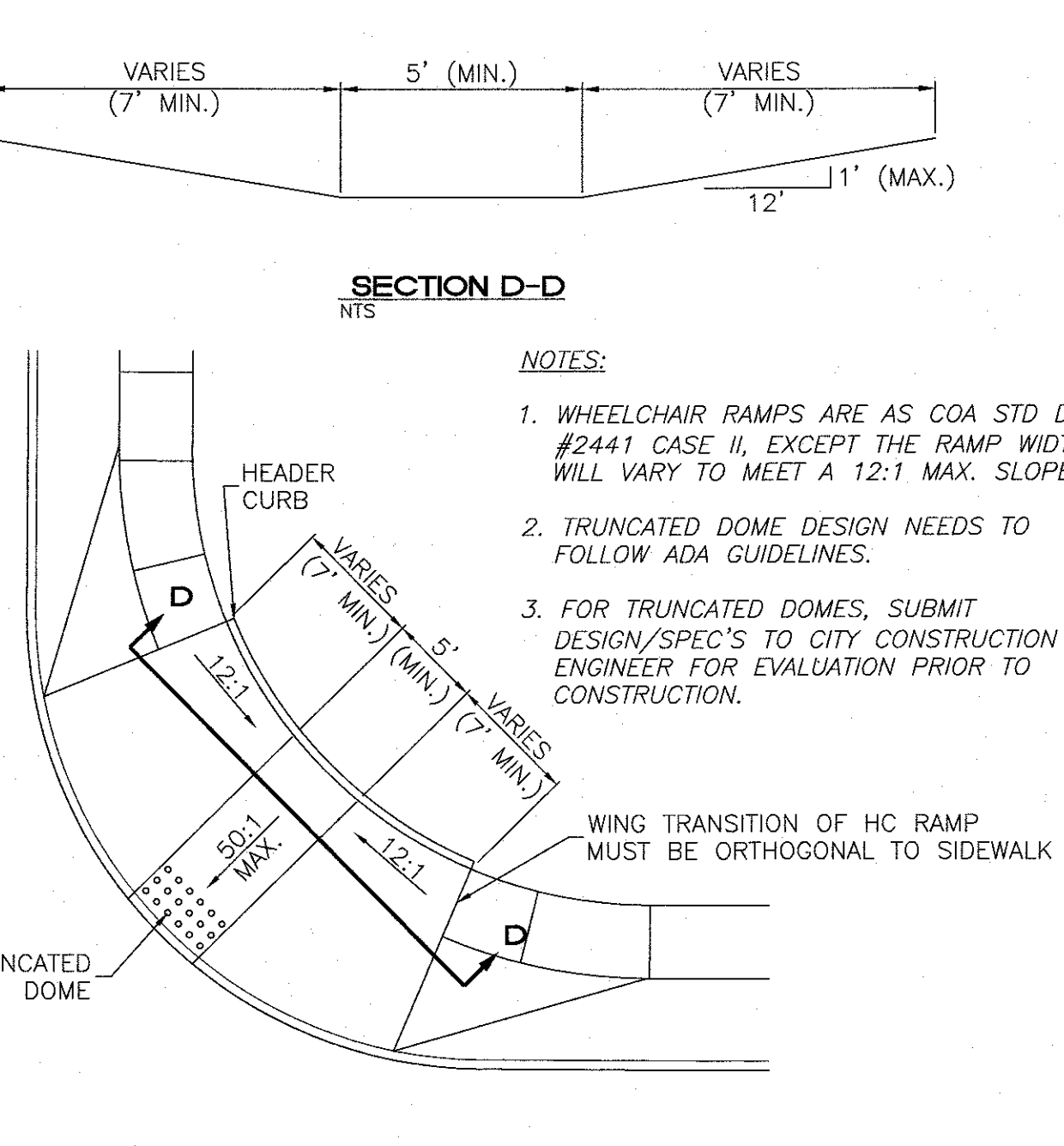
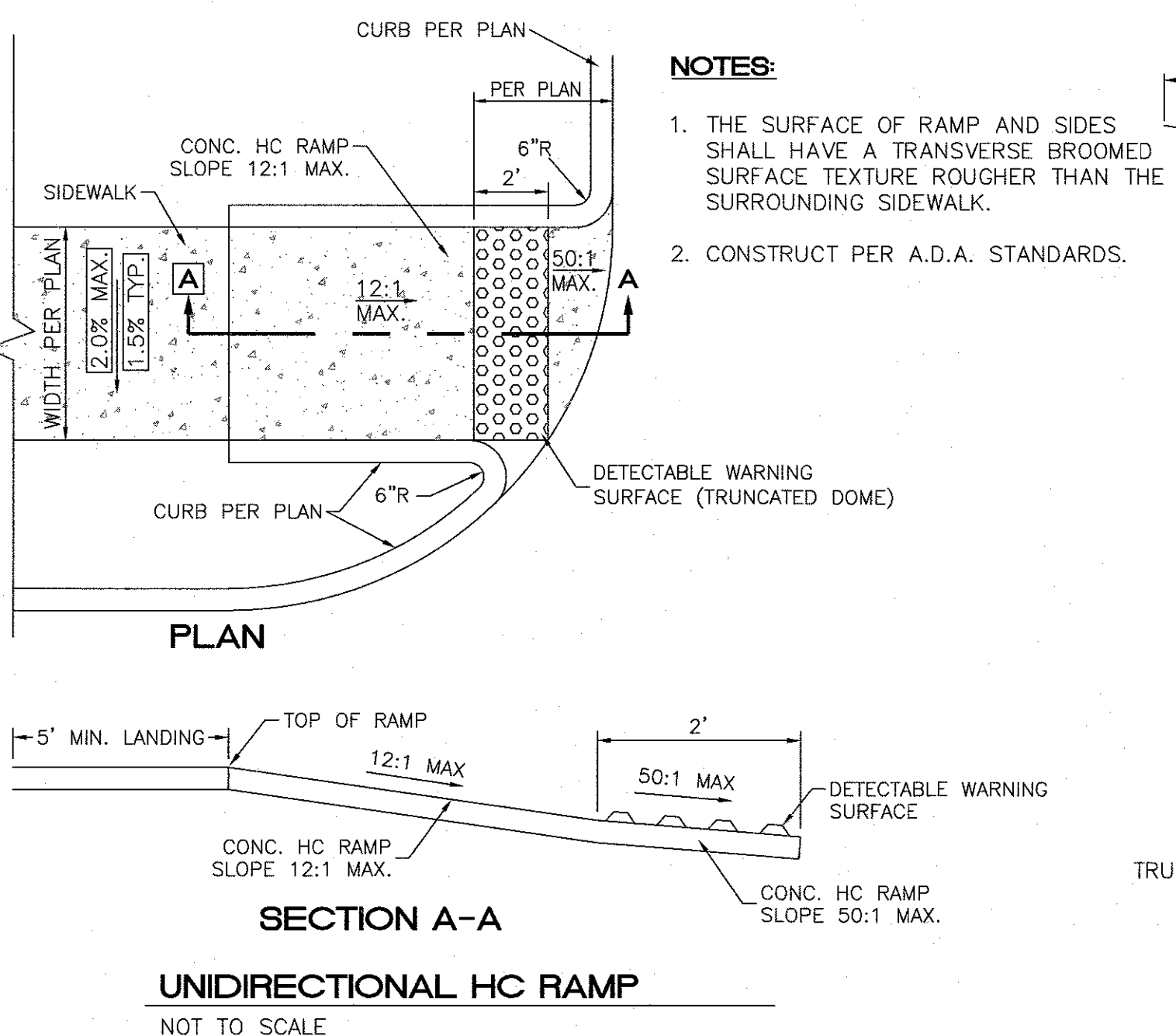
DEPTH OF BURY: 3.0' MINIMUM TO 6.0'
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

SIZE	HORIZONTAL BENDS				
	90°	45°	22-1/2°	11-1/4°	
12 UPPER	DON'T USE	42	20	10	
12 LOWER	DON'T USE	10	5	2	
10 UPPER	DON'T USE	36	17	8	
10 LOWER	DON'T USE	8	4	2	
8 UPPER	DON'T USE	30	14	7	
8 LOWER	DON'T USE	7	3	2	
6 UPPER	DON'T USE	23	11	5	
6 LOWER	DON'T USE	5	3	1	
4 UPPER	DON'T USE	16	8	4	
4 LOWER	DON'T USE	4	2	1	

JOINT RESTRAIN TABLES

NTS

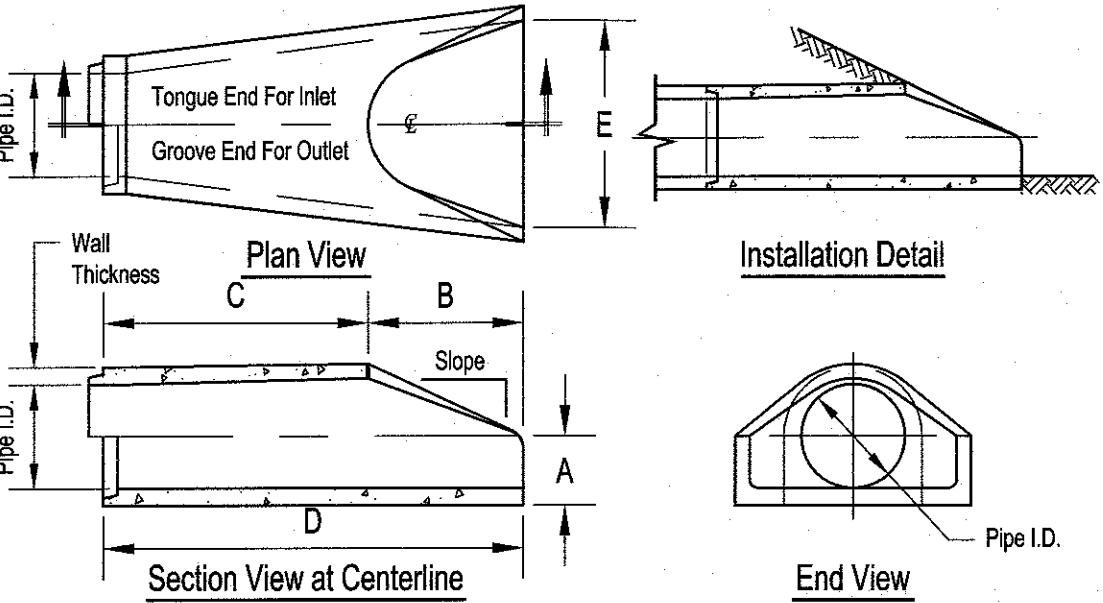


DOME SPACING

CC - CENTER TO CENTER SPACING 2.35"
BB - BASE TO BASE SPACING 1.48" MIN

Concrete Pipe Division

Flared End Section 12" - 72" Diameter Pipe



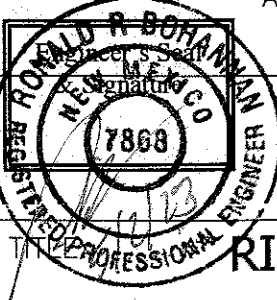
Pipe Inner Diameter (inches)	Wall Thickness (inches)	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)	Slope
12	2	4	24	48 7/8	72 7/8	30	3:1
15	2 1/4	6	27	48	73	30	3:1
18	2 1/2	9	27	48	73	36	3:1
24	3	9 1/2	43 1/2	30	73 1/2	48	3:1
30	3 1/2	12	54	36 3/4	73 3/4	60	3:1
36	4	15	63	36 3/4	87 3/4	72	3:1
42	4 1/2	21	63	35	98	78	3:1
48	5	24	72	28	98	84	3:1
54	5 1/2	27	65	35	100	90	2.4:1
60	6	30	60	30	99	96	2:1
66	6 1/2	32	78	21	99	102	2:1
72	7	34	78	21	99	108	2:1

Notes:
1. Produced to meet ASTM specifications.
2. Contact a Concrete Pipe Division representative for details not listed on this sheet.

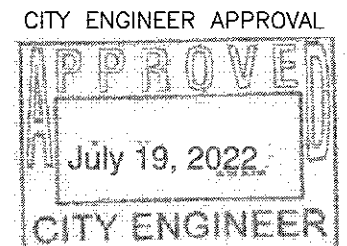
Rinker 024

FLARED END SECTION DETAIL

SCALE: NTS



PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
RIO GRANDE CROSSING WEST (SOUTH)
CONSTRUCTION DETAILS



CITY PROJECT NO. 759483
ZONE MAP NO. H-13-Z
SHEET 17 of 17