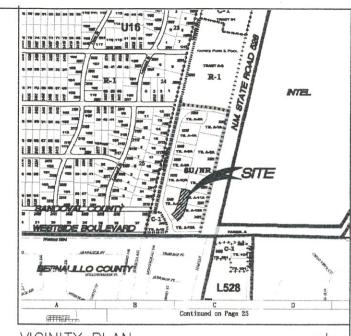


CONSTRUCTION PLANS FOR DEVELOPMENT



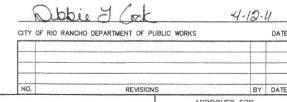
VICINITY PLAN

WATER & SANITARY SEWER IMPROVEMENTS RECIPROCAL ACCESS EASEMENT, GATEWAY SOUTH

RIO RANCHO, NEW MEXICO MARCH 2011

INDEX TO DRAWINGS

SHEET No.	DESCRIPTION
1 2 3	COVER SHEET NOTES REMOVAL & DETAILS PLAN
4	UTILITY PLAN & PROFILE (W & SAS)
5	UTILITY- CORR STANDARD DRAWINGS
6	UTILITY- CORR STANDARD DRAWINGS
7	PAVING PLAN & PROFILE
8	PAVING- CORR STANDARD DRAWINGS





Easterling Consultants LLC Engineering and Environmental Consulting 3613 NMSR 528 NW, Suite E-2 Albuquerque, New Mexico 87114 (505) 821-6646 FAX (505) 897-2965

SHEET 1 OF 8

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFOHWFED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, 3) THE LATEST EDITION OF THE CITY OF RIO RANCHO STANDARD DETAILS, AND 4) THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
- THE CONTRACTOR AND DEVELOPER AGREE THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NOHWFAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HAHWFLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFOHWFANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR
- NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE SERESPONSIBLE FOR CONSTRUCTION METHODS ON TECHNIQUES ON FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE FLANS. THE ENGINEER SHALL NOT BE SELECTION OF THE WORK AS SHOWN ON THESE FLANS. THE ENGINEER SHALL NOT BE SUBCONTRACTORS ON OTHER PERSONS PERFORMENTS.
- UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IS IN THE PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFOHWF TO THE "MANUAL ON UNIFOHW TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS CONSTRUCTION MANAGER FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED
- THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON HALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFOHWFATION SHALL BE PROVIDED TO THE OWNER. THE ENGINEER, THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC SAFETY (505-891-5900) AND THE CITY OF ANCHO DEPARTMENT OF PUBLIC WORKS (505-891-5016)
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PEHWEITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION
- ALL WORK ON THIS PROJECT SHALL BE PERFOHWFED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT
- THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL FOLJIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS AN OFF-SITE STAGING AREA SHALL BE PROVIDED CTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY SOTIATE WITH THE OWNER TO USE AN ON-SITE AREA
- UNLESS OTHERWISE NOTED, ALL ROADWAY STATIONING IS ALONG THE CENTERLINE OF THE ROADWAY RIGHT-OF-WAY.
- 11. UNLESS OTHERWISE NOTED, STATIONING OF CHANNELS AND/OR PIPES IN DRAINAGE EASEMENTS IS ALONG THE CENTERLINE OF THE CHANNEL/PIPE.
- CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES. POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION, ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- 13. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFOHWFATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFOHWFATION WHERE APPROPRIATE ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFOHWFATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, AND THE CITY OF RIO RANCHO DEPARTMENT OF PUBL WORKS (505,815.15) III MERPILATE! WORKS (505-891-5016) IMMEDIATELY.
- 14. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS (505-891-5016) TO DETEHWFINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
- 15. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS AND THE CITY OF RIO RANCHO UTILITIES OPERATIONS DIVISION.
- 16. ANY WORK PERFOHWFED WITHOUT THE APPROVAL OF THE CITY OF RIO RANCHO AND/OR ALL WORK AND MATERIALS NOT IN CONFORMFANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 17. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- 18. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT 1-800-321-2537, FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
- 19. CONTRACTOR WILL NOTIFY THE CITY OF RIO RANCHO'S CONSTRUCTION MANAGER AT 505-891-5016 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF

GENERAL NOTES (CONTINUED)

- 20 THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PEH-WIFISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PEH-WIFISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
- OHWEAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE
- 23. CONTRACTOR/DEVELOPER SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS, RECORDED PLATS, AND CITY OF RIO RANCHO STANDARD DETAILS. EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
- THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE CITY OF RIO RANCHO DEPARTMENT OF
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PEHWFITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE CITY OF RIO RANCHO DEVELOPMENT PROCESS MANUAL (DPM) AND ORDINANCES.
- 26. NO WORK SHALL BE PERFOHWFED IN A FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE CITY OF RIO RANCHO FLOODPLAIN MANAGER
- 27. ANY WORK PERFOHWFED IN A DRAINAGWAY, CHANNEL, ARROYO, OR FLOODPLAIN MUST BE PROTECTED BY MEANS OF TEMPORARY PONDING OR DIVERSION OF STOHWF FLOWS UNTIL SUCH WORK HAS BEEN ACCEPTED BY THE CITY. 28. THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF THE STOHWE DRAIN SYSTEM
- PRIOR TO ACCEPTANCE BY THE CITY. TESTING SHALL BE PERFOHWFED TO DEMONSTRATE THE FUNCTIONALITY OF THE SYSTEM. THE COST OF THE TESTING SHALL BE INCIDENTAL TO THE CONTRACT.
- 29. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PEHWFITS PRIOR TO

UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY

MATERIALS	PERCENT (%) COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUB BASE FOR SLAB SUPPORT	95
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD	95
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90
ROAD SUB GRADE	95
SIDEWALK SUB GRADE	95
CURB AND GUTTER SUBGRADE	95

ROADWAY GENERAL NOTES

- NO PAVING CONSTRUCTION ACTIVITIES SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED, TESTED, AND APPROVED. ALL WATE VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN T. CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.
- FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORMS TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORMS TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION
- ALL STREET STRIPING ALTERED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO MATCH THE ORIGINAL CONDITIONS (I.E. TYPE SPACING) AT THE LOCATION PRIOR TO CONSTRUCTION, OR AS SHOWN IN THIS PLAN SET.
- STREET GRADES SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING GRADES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SMOOTH TRANSITIONS SHALL BE MADE BETWEEN EXISTING PAVEMENT WHICH REMAINS IN PLACE AND PAVEMENT WHICH IS REPLACED WHEN ABUTTING NEW PAVEMENT TO EXISTING SAWCUT BACK EXISTING AVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. REFER TO STANDARD DRAWING PS-02.
- CONTRACTOR SHALL NOTIFY THE CITY OF RIO RANCHO PLIRI IC WORKS DEPARTMENT (505-891-5016) OF ANY ROADWAY OR LANE CLOSURES AT LEAST 48 HOURS IN ADV
- A STREET CUT PEHWFIT MUST BE ACQUIRED FROM, AND TRAFFIC CONTROL PLAN APPROVED BY, THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION.
- ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PEHWFIT AND APPROVAL BY THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS.
- THE LOCATION OF ALL VALVES AND MANHOLES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION AND MADE VISIBLE UPON COMPLETION OF ALL PAVING ACTIVITIES

ROSION CONTROL/ENVIRONMENTAL PROTECTION/STOHWF WATER POLLUTION PREVENTION PLAN

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PEHWFIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF INTENT (NOTION POLICATION, AND FILLING OUT THE NOTICE OF SIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE STOHW WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPS) THAT ARE REQUIRED IN THE APPROVED SWPPP SHAL BE INCLUDED IN AND ARE INCIDENTAL TO THE SWPPP BID AMOUN'
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES, AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN.
- THE CONTRACTOR SHALL CONFOHWF TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PEHWFITS FROM THE REGULATORY
- THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPS IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT
- THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PI
- THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR REHIVEAUENT DID WALES BY INSTALLING BMPS IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES FERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE
- CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH COVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND LOCATION OF THE PROPERTY MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.
- ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING, WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS STABILIZATION MEASURES MUST BE INITIATED LINESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANUSCHMING PLAN, NATIVE SHARSS SEEDING SHALL BE CLASS A SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST
- ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIMATELY DISPOSED OF PROFESTER AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO GOTAIN PEHWETTS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES. AND ARCHAEOLOGICAL RESOURCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE HAZARDOUS MATERIALS INCLUDE GASOLINE DIESEL FUEL MOTOR OIL SOLVENTS CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. TH CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-932
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SIZE PEDUCATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFOHWFED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
- WHERE STOHWF INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPS IDENTIFIED IN THE APPROVED SWPPP.

WATER AND WASTEWATER GENERAL NOTES

- SEWER/WATER LINES SHALL BE PLACED IN SEPARATE TRENCHES A DISTANCE OF 15 FEET TYPICALLY OR A MINIMUM OF 10 FEET APART HORIZONTALLY. THE WATER LINE SHALL BE PLACED A MINIMUM OF 1.5 FEET HIGHER IN ELEVATION THAN THE SEWER. AT ALL CROSSINGS OF WATER AND SEWER LINES, THE WATER LINE SHALL BE A MINIMUM OF 1.5 HIGHER THAN THE SEWER OR THE SEWER LINE SHALL BE C-900 PRESSURIZED PIPE.
- ALL MAIN LINE UTILITIES MUST HAVE TRACER WIRE
- FOR PRESSURE WATER CONNECTIONS TO EXISTING LINES, THE CONTRACTOR SHALL NOTIFY THE CITY OF RIO RANCHO UTILITIES OPERATIONS DIVISION A MINIMUM OF 48 HOURS PRIOR TO THE CONNECTION, AT 505-891-5030.
- COMPRESSION JOINTS MAY BE USED ON COPPER SERVICE LINES EXCEPT FLARED JOINTS SHALL BE USED WHEN CONNECTING TO PLASTIC LINES.
- THE 24" DEPTH OF SERVICE LINE BELOW FINISH SURFACE ELEVATION OF METER BOXES IS CRITICAL. METERS WILL NOT BE INSTALLED WHEN THIS DIMENSIO
- VALVE BOXES SHALL BE BROUGHT TO SURFACE ELEVATION UPON COMPLETION OF RFACE COURSE OF PAVEMENT. OCTAGONAL CONCRETE COLLARS SHALL BE INSTRUCTED TO SURFACE ELEVATIONS.
- FLUSHING OF WATER LINES SHALL BE METERED AND REPORTED TO THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION MANAGER ON A BIWEEKLY BASIS. PREFERENCE FOR DISPOSAL IS (1) ON AVAILABLE LAND SURFACE OR (2) IN STOHM'S SEWERS. DISPOSAL METHOD SHALL BE DISCUSSED WITH INSPECTOR.
- 8. FLUSHING, DISINFECTION AND TESTING OF WATERLINES SHALL BE COORDINATED WITH THE CITY OF RIO RANCHO UTILITY INSPECTOR

WATER AND WASTEWATER GENERAL NOTES (CONTINUED)

- CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF RIO RANCHO AND
- THE CONTRACTOR IS RESPONSIBLE FOR ORTAINING ALL NECESSARY PEHWEITS PRIOR TO THE START OF CONSTRUCTION
- IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ADEQUATELY SUPPORT AND PROTECT EXISTING UTILITIES AFFECTED BY THE CONTRACTOR'S TRENCHING ACTIVITY. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR'S SHALL ARRANGE FOR AND COORDINATE PROMPT REPAIR BY THE RESPECTIVE UTILITY AND SHALL BEAR THE COST OF REPAIRS.
- THE CITY OF RIO RANCHO SHALL APPROVE MATERIAL SUBMITTALS PRIOR TO
- PRIOR TO THE WATER/SEWER LINE INSTALLATION. THE FOLLOWING CONDITIONS WILL
 - THE WATER/SEWER LINE ROUTE WILL BE CLEARED AND GRUBBED AND THEN GRADED TO PLAN ELEVATION
 - THE WATER/SEWER LINE WILL BE STAKED WHEN OUTSIDE AN AREA WITH CURB AND GUTTER
- ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. IF THE ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. IF THE STREET HAS CURB AND GUTTER IT WILL BE INSTALLED PRIOR TO THE WATER LINE INSTALLATION UNLESS OTHERWISE APPROVED BY THE CITY OF RIO RANCHO. IF A STREET IS NOT DESIGNED WITH CURB AND GUTTER AND HAS A SANITARY SEWER LINE THEN THE TRENCHES TO BE BACKFILLED AND COMPACTED AND TESTED BEFORE THE
- A MECHANICAL RESTRAINT SYSTEM AS SHOWN IN STANDARD DRAWINGS W-19 AND W-20 SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINT.
- ALL WATER SERVICES SHALL HAVE DOUBLE YOKES BETWEEN COMMON LOT LINES UNLESS OTHERWISE APPROVED BY THE CITY OF RIO RANCHO
- THE CONTRACTOR SHALL MARK THE GUTTER PAN OF THE CURB WITH "W" FOR WATER AND "S" FOR SANITARY SEWER FOLLOWING SERVICE INSTALLATION AND PRIOR TO FINAL ACCEPTANCE
- WATER FROM ELUSHING MAINS IS NOT ALLOWED TO BE PUMPED INTO SANITARY
- THE CITY OF RIO RANCHO LITELITIES OPERATIONS DIVISION (505-891-5030) SHALL BE THE OIL PERSONNEL AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRAIN'S, ET-THE OIL PERSONNEL AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRAIN'S, ET-THE OIL PERSONNEL AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRAIN'S, ET-(7) DAYS PRIOR TO PROPOSED SHUTOFF. CONTACT THE CITY'S PROJECT MANAGER
- THE CONTRACTOR SHALL PROVIDE A PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED SEVEN (7) DAYS BEFORE TESTING OPERATIONS BEGIN.
- SEWER SERVICE LATERAL LOCATIONS ARE SHOWN GRAPHICALLY (I.E. TYPICALLY 10 LF ABOVE LOWER RESIDENTIAL LOT LINE) AND MAY BE ADJUSTED IN THE FIELD TO AVOID DRIVEWAYS WHENEVER FEASIBLE.
- 30 DAYS FOLLOWING INSTALLATION AND BACKFILL OF SEWER LINES, A DEFLECTION TEST USING A HAND PULLED MANDREL SHALL BE PERFOHWFED IN THE PRESENCE OF THE INSPECTOR
- 23. AIR TESTING OF SEWER LINES SHALL BE CONDUCTED IN THE PRESENCE OF INSPECTOR
- 24. ALL SEWER SERVICE LINES SHALL BE INSPECTED BY TV CAMERA AND A VIDEO TAPE ALL SEWEN SERVICE. LINES SHALL BE INSPECTED BY TV CAMERA AND A VIDEO TAPE PROVIDED TO THE DEPARTMENT OF PUBLIC WORKS INSPECTOR FOR REVIEW PRIOR TO ACCEPTANCE BY THE CITY. IN THE EVENT THAT THE FIRST INSPECTION OR SUBSEQUENT INSPECTIONS AFTER THAT DO NOT PASS, THE CONTRACTOR WILL BE REQUIRED TO PERFOHMY ADDITIONAL INSPECTIONS OF THE SEWER SERVICE LINES USING A TV CAMERA AT THE CONTRACTOR'S EXPENSE.
- MANHOLES SHALL MEET APWA STANDARDS EXCEPT THERE SHALL BE NO LADDER RUNGS INSTALLED. MANHOLES AND INLETS ON STOHWF SEWER SYSTEMS DO REQUIRE STEPS.

CITY PROJECT No.

26. SERVICE LINES SHALL NOT BE CONNECTED TO MANHOLES.

FIED SURFACE CONCRETE NAIL C. "SURV-TEK

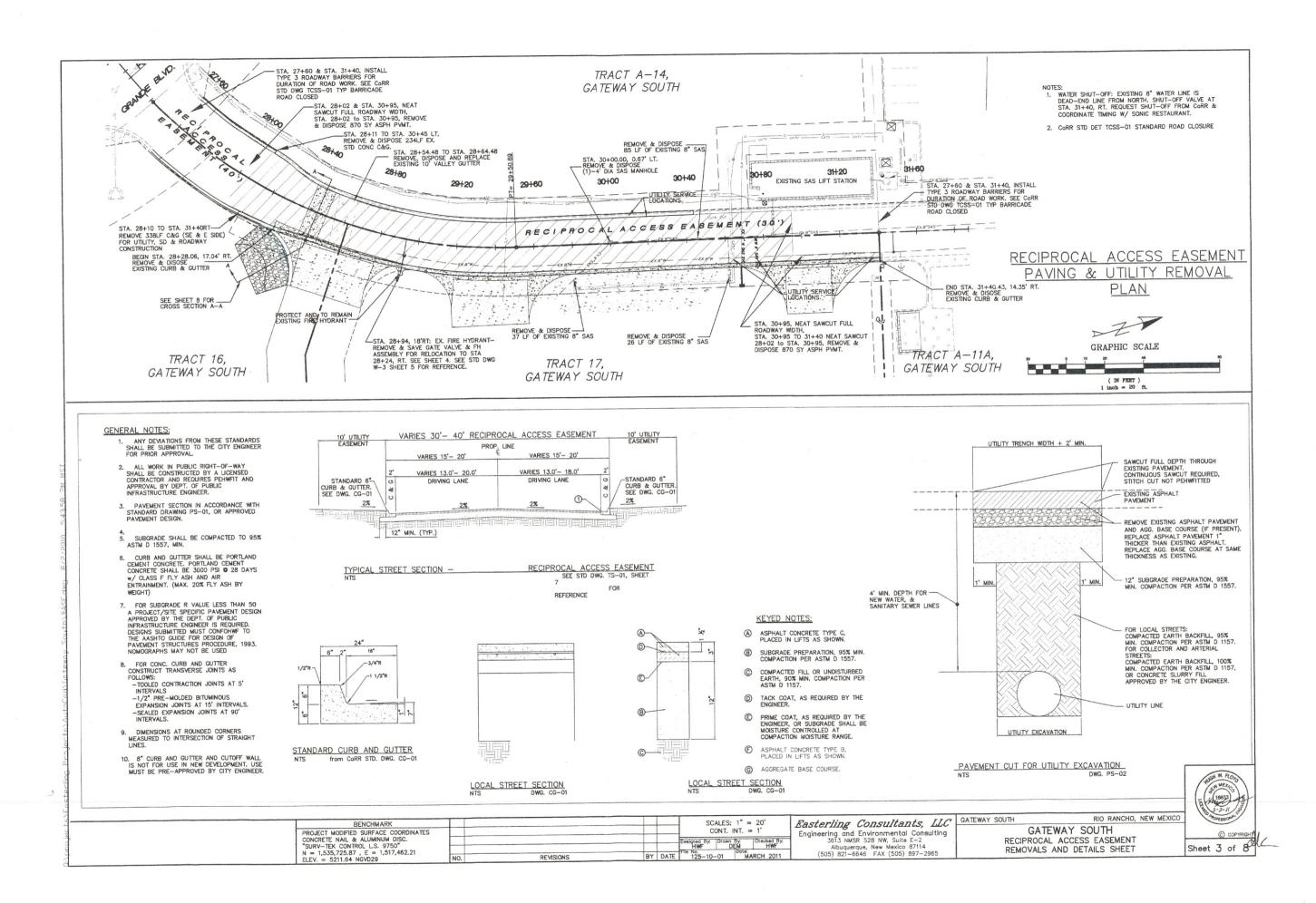
SEAL	the state of the s
VEER'S	M. F.O. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
ENGI	TO THE WEST
	5

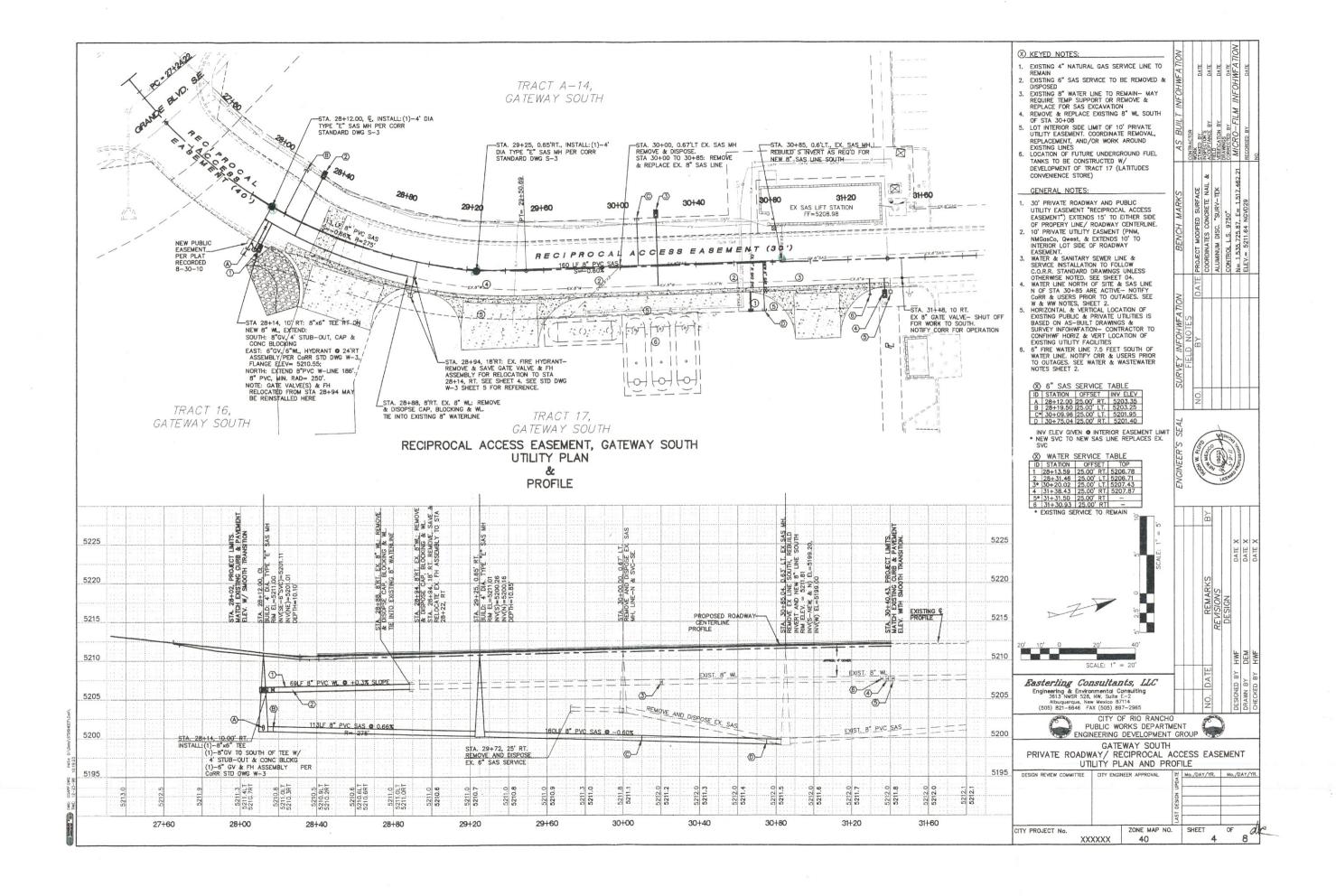
				REM	REVISION	DESIGN			
		-		lu lu				DEM	HWF
Easterling Consultants, LLC Engineering & Environmental Consulting 3613 NMSR 528, NW, Suite E-2 Albuquerque, New Mexico 87114 (S05) 821-6646 FAX (505) 897-2965				NO. DATE			DESIGNED BY	DRAWN BY	CHECKED BY
	CITY OF RIO RANCH JBLIC WORKS DEPARTI EERING DEVELOPMENT	JEN		P					
	SANITARY SEWER IN CCESS EASEMENT— GENERAL NOTES	G					ТН		
DESIGN REVIEW	CITY ENGINEER APPROVAL	JPDATE	Mo.	/DAY/Y	2.	Мо	./D	AY/	YR.

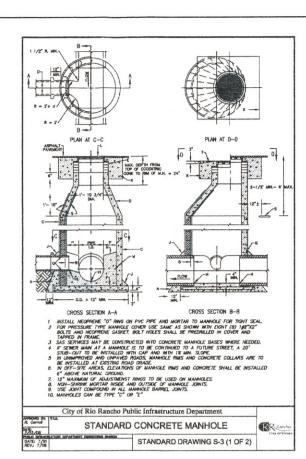
SHEET

XXXXXX

ZONE MAP NO.







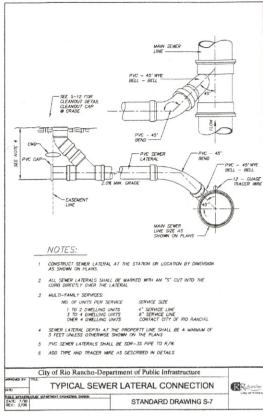
GENERAL NOTES:

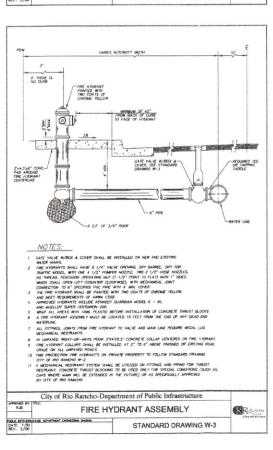
- TYPE E M.H. NOT TO BE USED FOR DEPTHS LESS THAN 6' MEASURED FROM INV. TO RIM.
- M.H. GREATER THAN 18' IN DEPTH SHALL BE OF PRECAST CONC. SECTIONS ONLY.
- 3. DESIGN APPLIES TO 4' AND 6' I.D. MANHOLES.
- 4. USE NON-SHRINK GROUT FOR JOINTS, FILLETS & PIPE PENETRATIONS.
- 5. COMPACT ALL BACKFILL AROUND M.H. TO 95%. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

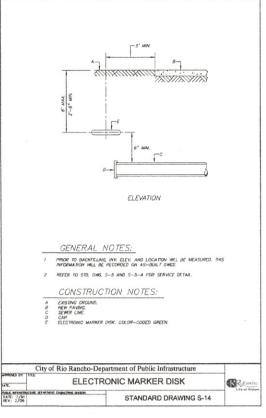
CONSTRUCTION NOTES:

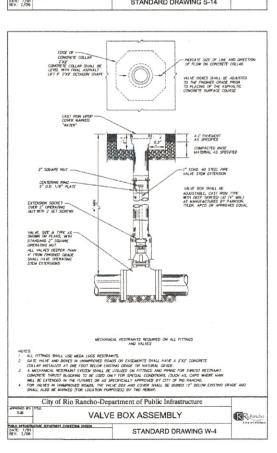
- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- F. BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 8" O.C. EA. WAY FOR M.H. DEPTH OF 18' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 18' DEEP.
- H. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS
- J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
- L. M.H. FRAME AND COVER, SEE DWG, 2110.
- M. CONCRETE FILL, 3000 PSI.
- N. SLOPE 1" PER FT. FROM PIPE CROWN.
- P. SHELF TO BE 9" WIDE MIN.
- Q. APPROVED WATERSTOP TO BE WITH TYPE OF PIPE.
- S. EMD (IN UNPAVED AREAS).
- T. IN UNPAYED AREAS SET FRAME TO GRADE AND SLOPE TOP OF PAD.

	City of Rio Rancho-Public Infrastructure Department	
R. Carrell	STANDARD CONCRETE MANHOLE	Reach
DATE: 7/M REV.: 7/M	STANDARD DRAWING S-3 (2 OF 2)	



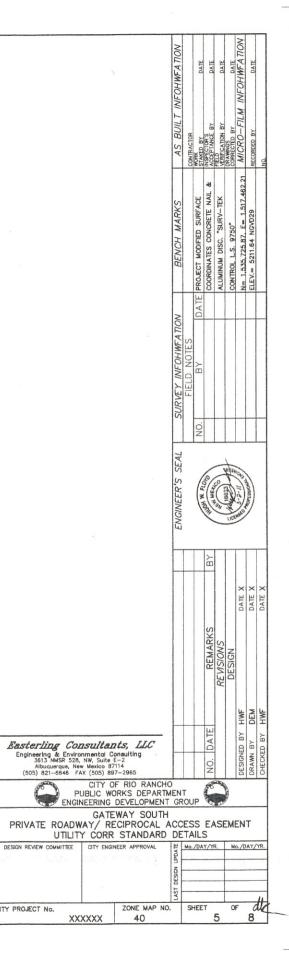


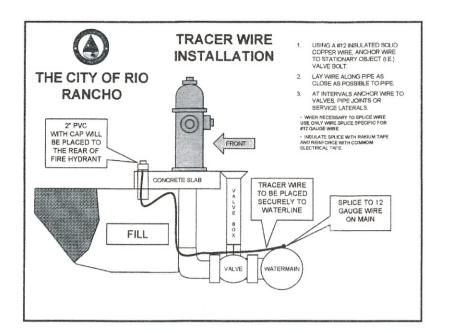


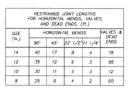


CITY PROJECT No.

XXXXXX







	STRAIG	TRAINED JOINT LENGT FOR REDUCERS, (N.) NIMUM, UNOBSTRUCTE HT—RUN LENGTH: RES LARGE PIPE, OR SMAL	D, STRAIN	
SIZE (in.)	LARGE ENO	SIZE(in.)	LARGE	
14X12	23	12X8	42	
14×10	43	12X6	57	
14XB	58	10X8	23	
14X6	71	10x6	41	
12X10	23	Br6	23	

NOTE: THE TABLE SHOWN IN THE EXAMPLE ARE APPROPRIATE RESTRANCE JOHN LENGTHS MEETING THE FOLLOWING CONDITIONS: SHE MARENAL-FIRST SALED AND ASSESSMENT SALED ASSESSMENT ASSESSMENT

EVERY DESIGN WILL HAVE THE SAME CONDITIONS AS IS EXAMPLE, IT IS THE RESPONSIBILITY OF THE DESIGN FEED TO DESIGNATE APPROPRIATE WAY DESTRUCTIONS

City of Rio Rancho-Department of Public Infrastructure

OFFICIAL TO SET THE RESTRAINED JOINT LENGTHS (EXAMPLE)

DATE: 2005 STANDARD DRAWING W-19

STANDARD DRAWING W-19

THIS TABLE SHOWS TWO SCENARIOS, 1) A LENGTH ALONG THE RUN OF 20 FEET EITHER SIDE OF FITTING AND 2) A LENGTH ALONG THE RUN OF 10 FEET EITHER SIDE OF FITTING AND THE RECURED LENGTH OF PIPE THAT MUST DE RESTRANCED ALONG THE BRANCH.

AL		FOR TEL	IOINT LENGTHS ES, (ft.) E MUST BE RE			
20 FT. EITHER SIDE OF FITTING			10 FT. EITHER SIDE OF FITT			
SIZE(in.)	RUN	BRANCH	RUN	BRANCH		
4XT4X14	20	1.5	10	50		
14X14X12	20	1	10	32		
14X14X10	20	1	10	12		
14X14XB	20	1	10	1		
14X14X6	20	1	10	1		
2X12X12	20	3	10	39		
2X12X10	20	1	10	20		
12X12X8	20	1	10	1		
12X12X6	20	1	10	7		
סואסואס	20	1	10	28		
10X10XB	20	1	10	8		
вхвхв	20	1	10	18		
BXBX6	20	1	10	1		

NOTE. THE TABLE SHOWN IN THE EXAMPLE ARE APPROPRIATE RESTRANCE JOIN LEADING MEETING THE FOLLOWING CONDITIONS: POR MATERIAL-PIX

SAFETY FACTOR—1.52

JUPPIN OF BURNT—4

EST MEESING—1.69 FIG.

10.17 MESING—1.69 FIG.

10.17 MESING—1.69 FIG.

NOT EVERY DESIGN WILL HAVE THE SAME CONDITIONS AS PRESENTED IN THIS EXAMPLE. IT IS THE RESPONSENTING TO THE DESIGN EXPORMER TO DETERMINE APPROPRIATE JOHN RESTRAINM LENGING FOR SUBMITTAL AND APPROVAL BY THE CITY OF NO RANCHO.

City of Rio Rancho-Department of Public Infrastructure

RESTRAINED JOINT LENGTHS (EXAMPLE)

RESTRAINED JOINT LENGTHS (EXAMPLE)

STANDARD DRAWING W-20

AS BUILT INFOHMFATION		DATE	DATE	DATE	DATE	INFOHWFA TION	
AS BUILT II	CONTRACTOR	WORK STAKED BY	INSPECTOR'S ACCEPTANCE BY	VERIFICATION BY	DRAWINGS CORRECTED BY	MICRO-FILM	
BENCH MARKS		DATE PROJECT MODIFIED SURFACE	COORDINATES CONCRETE NAIL &	ALUMINUM DISC. "SURV-TEK	CONTROL L.S. 9750"	N= 1.535.725.87. E= 1.517.462.21 MICRO-FILM INFOHWFATION	ELEV - 5211 54 MOVIDSO
SURVEY INFOHWFATION	FIELD NOTES	NO. BY DATE					
SEAL		_	_	7	NINE P	_	

ENGINEER'S SEA

BY

DATE X
DATE X

		REMARKS	REVISIONS	DESIGN			
					HWF	DEM	
LC .	-	DATE			ED BY		
		NO.			DESIGNED BY	DRAWN BY	
ANCHO		200)			

Eastering Consultants, LLC

Engineering & Environmental Consulting
STATE STATE STATE STATE STATE
Albuquerque, New Mexico 87114
(505) 821–5646 FAX (505) 897–2965

CITY OF RIO RANCHO
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

WATER & SANITARY SEWER IMPROVEMENTS RECIPROCAL ACCESS EASEMENT— GATEWAY SOUTH UTILITY CORR STANDARD DETAILS

DESIGN REVIEW

CITY ENGINEER APPROVAL

LIM DESIGN REVIEW

CITY ENGINEER APPROVAL

LIM DESIGN REVIEW

CITY PROJECT No.

ZONE MAP NO.

SHEET OF CLU

XXXXXX 440 6 8

