

GRADING PLAN

ISSUED FOR DD
NOT FOR CONSTRUCTION
05/20/2026

SCALE: 1"=20'

LEGEND

- INV = INVERT
- C.O. = CLEANOUT OR CURB OPENING
- FL = FLOWLINE
- FG = FINISH GRADE
- TC = TOP OF CURB OR CONCRETE
- TW = TOP OF WALL
- BW = FINISHED GRADE, BOTTOM OF WALL
- U.N.O. = UNLESS NOTED OTHERWISE
- GB = GRADE BREAK
- CMP = CORRUGATED METAL PIPE
- RW = RETAINING WALL
- GTD = GRADE TO DRAIN
- TP = TOP OF CULVERT PIPE
- SIDEWALK CULVERT
- FLOW DIRECTION
- DRAINAGE PIPE CULVERT PVC
- RIPRAP ROCK PLATING SWALE
- EXISTING GROUND CONTOUR
- PROPOSED FINISHED CONTOUR (ADD 6700' FOR EL.)

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PROJECT:
DATE:
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DRAWN:
PLAN SCALE: AS NOTED

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS A. DENSFORD
PRELIMINARY

PROJECT: GALLEGOS PROJECT
SIRINGO LANE, SANTA FE

SHEET TITLE: GRADING PLAN

AGENCY REVIEW

DEPARTMENT	SIGN-OFF	DATE

FOR AGENCY USE ONLY

SHEET NO.
C-01

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CITY OF SANTA FE STANDARD DRAWINGS AND SPECIFICATIONS AS APPLICABLE.

2. UTILITY CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THE APWA'S "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION INCLUDING LATEST PUBLISHED AMENDMENTS.

3. INFRASTRUCTURE CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION (SSHBC).

4. THE ORDER OF PRECEDENCE SHALL BE, LISTED IN ORDER OF HIGHEST PRECEDENCE, THE PROJECT SPECIFICATIONS, PLANS, CITY OF SANTA FE STANDARD DRAWINGS, SSHBC, AND APWASS.

5. IN THE CASE OF CONFLICTS BETWEEN PLANS AND SPECIFICATIONS RESOLUTION SHALL BE BY USING THE MORE RESTRICTIVE REQUIREMENT AS DETERMINED BY THE PROJECT ENGINEER AND APPROVED BY CITY PLANNING AND LAND USE DEPARTMENT'S PERMIT AND DEVELOPMENT REVIEW DIVISION TECHNICAL REVIEW STAFF (P&DR).

6. THE PROJECT PLANS SHALL BE APPROVED FOR CONSTRUCTION BY THE P&DR'S ENGINEERING SUPERVISOR PRIOR TO ANY CONSTRUCTION ACTIVITY AND SCHEDULING A PRE-CONSTRUCTION MEETING. THE ENGINEERING SUPERVISOR MAY, BY WRITTEN AUTHORIZATION, DESIGNATE OTHERS TO ADMINISTER DUTIES DESCRIBED HEREIN.

7. THE CONSTRUCTION PROJECT ENGINEER SHALL BE A NEW MEXICO LICENSED PROFESSIONAL ENGINEER IN THE APPROPRIATE CATEGORY FOR THE TYPE OF WORK REPRESENTED BY THE PROJECT PLANS. THE PROJECT ENGINEER SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF CONSTRUCTION OR MOBILIZATION OF EQUIPMENT ON-SITE AND AFTER RECEIPT OF THE FINANCIAL GUARANTY. AT THE PRE-CONSTRUCTION MEETING, THE PROJECT ENGINEER SHALL SUBMIT A LETTER PROVIDING THE NAME(S) OF SPECIFIC INDIVIDUALS WHO WILL BE PERFORMING WHAT TYPE OF INSPECTIONS AND RESPECTIVE TELEPHONE CONTACT NUMBER(S); THIS INCLUDES PREPARATION OF THE RECORD DRAWINGS. CALL 505-955-6585 TO SCHEDULE THE PRE-CONSTRUCTION MEETING A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF THE MEETING DATE.

8. ATTENDANCE AT THE PRE-CONSTRUCTION MEETING IS MANDATORY FOR THE PROJECT ENGINEER (WHO SHALL CONDUCT THE MEETING), CONTRACTOR, P&DR TECHNICAL REVIEW STAFF, AND APPLICABLE STAFF FROM CITY STREET, WATER, AND WASTEWATER MANAGEMENT DIVISIONS. THE OWNER AND SUB-CONTRACTORS ARE ENCOURAGED TO ATTEND. AT THIS MEETING, A SPECIFIC P&DR STAFF MEMBER WILL BE ASSIGNED AS THE POINT OF CONTACT WITH THE CONTRACTOR.

9. THE CONTRACTOR SHALL PROVIDE A LIST OF CONTACT PERSONNEL RESPONSIBLE FOR SITE CONSTRUCTION INCLUDING POSITION, TELEPHONE NUMBERS, AND AT LEAST ONE EMERGENCY TELEPHONE NUMBER ACTIVE ON A 24 HOUR BASIS.

10. AN EPA NOTICE OF INTENT (NOI) IS APPLICABLE. A COPY OF THE MAILED PERMIT APPLICATION SHALL BE PRESENTED AT THE PRE-CONSTRUCTION MEETING ALONG WITH A WRITTEN STATEMENT GIVING THE MAILING DATE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL UNDERGROUND UTILITIES DURING THE COURSE OF WORK REGARDLESS OF ANY LOCATION SHOWN ON THE PLANS OR OTHER FIELD EVIDENCE, OR LACK THEREOF. NOTIFICATION TO NEW MEXICO ONE CALL AT 1-800-321-2537 FOR UTILITY LOCATES A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION IS REQUIRED. MAINTENANCE OF UTILITY LOCATES SHALL BE CONTINUED THROUGHOUT THE PROJECT LIFE.

12. THE OWNER SHALL BE RESPONSIBLE FOR ALL CHANGES IN CONSTRUCTION DEEMED NECESSARY FOR ANY REASON AND SHALL HAVE APPROPRIATE PLANS AND/OR SPECIFICATIONS, INCLUDING APPLICABLE DESIGN CRITERIA, PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER AND SUBMITTED TO THE CITY ENGINEERING SUPERVISOR FOR APPROVAL. UPON APPROVAL, SAID CHANGES MAY BE INCORPORATED INTO THE PROJECT.

13. FINAL RECORD DRAWINGS, REFLECTING SUBSTANTIAL CHANGES TO THE ORIGINAL DESIGN DRAWINGS, SHALL BE SUBMITTED BY THE OWNER'S ENGINEER FOR APPROVAL TO THE ENGINEERING SUPERVISOR FOR PERMANENT FILING IN THE CITY PLANNING DEPARTMENT. SAID PLANS SHALL BE APPROVED BY APPLICABLE CITY DIVISIONS PRIOR TO FINAL ACCEPTANCE OF PROJECT WORK FOR MAINTENANCE RESPONSIBILITY AND THE BEGINNING OF THE WARRANTY PERIOD. UNDER NO CIRCUMSTANCES WILL PARTIAL ACCEPTANCE AND/OR WARRANTY COMMENCEMENT BEGIN FOR ANY COMPONENT OF PROJECT SCOPE BE PROVIDED.

14. CURB CUTS SHOWN IN THE ORIGINAL, APPROVED CONSTRUCTION DRAWINGS WILL REQUIRE A "CURB CUT PERMIT" ISSUED BY THE CITY TRAFFIC ENGINEER PRIOR TO CONSTRUCTION. CURB CUTS FOUND TO BE NECESSARY THAT WERE NOT INCLUDED IN THE ORIGINAL, APPROVED CONSTRUCTION DRAWINGS WILL REQUIRE A CHANGE ORDER THAT INCLUDES A "CURB CUT PERMIT" FROM THE CITY TRAFFIC ENGINEER. CALL 505-955-6631 FOR INFORMATION.

15. PARALLEL WATER AND SANITARY SEWER (SAS) UTILITIES SHALL HAVE A MINIMUM HORIZONTAL SPACING OF 10 FEET AND VERTICAL SPACING OF 3 FEET WHEREIN THE WATER LINE IS ABOVE THE SAS LINE. INSTALLATION WILL BE IN SEPARATE TRENCHES. SHOULD ENCOUNTERED FIELD CONDITIONS EXIST THAT PREVENT MAINTAINING THESE SEPARATION DISTANCES AND RELATIONSHIP, A CHANGE ORDER SHALL BE INITIATED THAT PROVIDES FOR ALTERNATIVE PROTECTIVE MEASURES AND SUBMITTED FOR APPROVAL TO THE ENGINEERING SUPERVISOR VIA THE CITY WATER AND WASTEWATER MANAGEMENT DIVISIONS.

16. SANITARY SEWER LATERAL CONSTRUCTION MUST BE CONSTRUCTED UNDER SEPARATE PERMIT (SECONDARY) FOR SAS HOOKUP. THE CONTRACTOR SHALL OBTAIN THE PERMIT(S) PRIOR TO ANY CONSTRUCTION AND MUST BE OBTAINED AT THE PERMIT DESK AT CITY HALL; PROVIDING STREET ADDRESS FOR EACH HOOKUP. UPON PAYMENT OF FEE(S) THE PERMIT FORM WILL BE IMMEDIATELY GENERATED WHICH SHALL BE KEPT ON-SITE. CALL 505-955-6945 FOR PERMIT INFORMATION AND 505-955-6646 FOR INSPECTION OF EACH VISIBLE, CONNECTED LATERAL.

17. ALL CONTRACTOR WORK ACTIVITY SHALL BE CONFINED TO THE CONSTRUCTION LIMITS OF THE PROJECT. THERE SHALL BE NO ENCROACHMENT ONTO ADJACENT PROPERTIES, EITHER CONSTRUCTION OR MARSHALLING YARD(S) UNLESS LEGAL EASEMENTS(S)/AGREEMENT(S) IS/ARE EXECUTED AND APPROVED BY THE ENGINEERING SUPERVISOR.

18. GRADING SHALL BE COMPLETED UNDER THE AUTHORITY OF A BUILDING PERMIT , THE APPLICATION OF WHICH SHALL SHOW THE TYPE OF WORK AS "OTHER" WITH THE NOTATION OF GRADING, LANDSCAPING, AND INFRASTRUCTURE SHOWN THEREON. CALL 505-955-6945 FOR PERMIT INFORMATION.

19. ALL CUT AND FILL SLOPES, INCLUDING SETBACK REQUIREMENTS, SHALL CONFORM TO THE REQUIREMENTS OF: a. SANTA FE CITY CODE'S ARTICLE 14-8 (DEVELOPMENT AND DESIGN STANDARDS); b. CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE, 2003 EDITION UNLESS OTHERWISE NOTED ON THE APPROVED CONSTRUCTION PLANS; AND c. IN THE CASE OF CONFLICT BETWEEN THESE TWO SPECIFICATIONS, CITY CODE SHALL PREVAIL.

20. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.

21. MATERIAL QUALITY TESTING SHALL BE COMPLETED BY THE OWNER, THROUGH A RECOGNIZED TESTING LABORATORY. THE LABORATORY SHALL BE UNDER THE DIRECTION OF A NEW MEXICO PROFESSIONAL ENGINEER.

22. ALL MATERIAL QUALITY TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE CITY PLANNING DEPARTMENT, ATTENTION PERMITS AND DEVELOPMENT REVIEW DIVISION AT P. O. BOX 909, SANTA FE, NEW MEXICO 87504-0909 WITHIN SEVEN (7) CALENDAR DAYS AFTER LABORATORY MATERIAL TESTING IS COMPLETE UNLESS OTHERWISE DIRECTED DURING THE PRE-CONSTRUCTION MEETING. FIELD TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE P&DR STAFF AT THE TIME OF FIELD TESTING. IN THE CASE OF P&DR STAFF ABSENCE, THE REPORTS SHALL BE FAX'ED TO 505-955-6829. IN EACH CASE, ALL TEST REPORTS AND OTHER COMMUNICATION SHALL CARRY THE APPLICABLE P&DR CASE AND BUILDING PERMIT PROJECT NUMBERS WHICH WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING IF NOT NOTED ON THE APPROVED PROJECT PLANS.

23. COMPACTION TESTING OF SOIL AND SIMILAR MATERIALS, INCLUDING OPTIMUM MOISTURE-DENSITY RELATIONSHIPS, SHALL BE PERFORMED IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS AND/OR PLANS. UNLESS SPECIFIED IN INDIVIDUAL PROJECT PLANS, THE FREQUENCY OF COMPACTION TESTING SHALL BE ONE (1) TEST PER 1.5 VERTICAL FEET OF FILL OR BACKFILL OF SIMILAR MATERIAL; WITHIN TWO (2) HORIZONTAL FEET OF STRUCTURES; FOR EACH 500 LINEAR FEET OF TRENCH BACKFILL OR EACH DAYS COMPACTIVE EFFORT, WHICHEVER RESULTS IN THE GREATEST QUANTITY OF TESTS; OR FOR EACH 500 CUBIC YARDS OF FILL OF SIMILAR MATERIAL.

24. PORTLAND CEMENT CONCRETE (PCC) PROPOSED TO BE USED FOR THE PROJECT SHALL CONFORM TO A MIX DESIGN PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER. THE DESIGN SHALL BE PROVIDED TO P&DR STAFF FOR APPROVAL A MINIMUM OF 14 CALENDAR DAYS PRIOR TO SCHEDULING THE INITIAL CASTING OPERATION OR, ALTERNATIVELY, THE PROJECT PLANS SHALL DEFINE A SPECIFIC MIX HAVING A PRIOR APPROVAL BY P&DR. EACH MIX SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
    a. COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 CALENDAR DAYS
    b. SEVEN (7.0) BAGS OF CEMENTITIOUS MATERIAL PER CUBIC YARD OF CONCRETE
    c. TWENTY (20.0) PERCENT OR LESS OF FLYASH MATERIAL SUBSTITUTION FOR CEMENT
    d. MAXIMUM AGGREGATE SIZE OF 3/4"
    e. AIR ENTRAINMENT CONTENT RANGING BETWEEN 4.0 AND 7.0 PERCENT AT THE POINT OF CONCRETE DELIVERY INTO FORMS.

25. CONCRETE SAMPLE SET SHALL CONSIST OF A MINIMUM OF THREE (3) CYLINDERS. ONE SAMPLE SET SHALL BE OBTAINED FOR EACH 500 LINEAR FEET CAST, 50 CAST CUBIC YARDS, OR ONE (1) SET PER CALENDAR DAY, WHICHEVER IS GREATEST. CYLINDERS SHALL BE TESTED AT 7, 28, AND 56 DAY INTERVALS; THE 56 DAY INTERVAL NEED NOT BE TESTED IF ANY PREVIOUS TEST RESULT EXCEEDS THE DESIGN VALUE.

26. TRAFFIC CONTROL DEVICES, AS PER APPROVED PLAN, SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. SAID DEVICES SHALL CONFORM TO THE LATEST PUBLISHED EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND TO WRITTEN DIRECTION FROM THE CITY TRAFFIC ENGINEER WHO MAY BE REACHED AT 505-955-6631.

27. SITE EROSION AND/OR SEDIMENT CONTROL, AS PER APPROVED PLAN, SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. INSPECTION BY THE P & DR STAFF OF APPLICABLE BEST MANAGEMENT PRACTICES (BMP) IS REQUIRED PRIOR TO ANY GRADING ACTIVITY; CALL 505.955.6646 TO ARRANGE FOR SAID INSPECTION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SSHBC'S SECTION 603 FOR OTHER REQUIREMENTS RELATING TO DUST ABATEMENT AND SIMILAR ISSUES.

28. UTILITY LINES MUST BE BORED UNDER ALL EXISTING STREET PCC STREET APPURTENANCES. A MINIMUM OF 12" SEPARATION MUST BE MAINTAINED BETWEEN UTILITY LINES. ANY CURB, GUTTER, OR OTHER DAMAGE MUSE BE REPAIRED BEFORE FINAL INSPECTION WILL BE GIVEN.

29. EACH CITY UTILITY DIVISION SHALL PROVIDE A LETTER OF COMPLETED INSTALLATION, NOT NECESSARILY ACCEPTED FOR WARRANTY, AT THE CONTRACTOR'S REQUEST. SAID LETTERS SHALL BE PROVIDED TO THE P&DR STAFF AND RECEIVED WRITTEN STAFF ACCEPTANCE PRIOR TO SCHEDULING EITHER TV INSPECTION OF SAS AND STORM SEWER LINES OR PLACEMENT OF ROADWAY PAVEMENT MATERIAL.

30. ASTM, ASSHTO, OR INDEPENDENT LABORATORY CERTIFICATES OF MATERIAL COMPLIANCE ARE TO BE PROVIDED TO P&DR STAFF PRIOR TO BRINGING APPLICABLE MATERIAL ON SITE.

31. AGGREGATE BASE COURSE MATERIAL SHALL CONFORM TO THE SSHBC'S SECTION 304 USING GRADATION I.

32. PLANT MIX BITUMINOUS PAVEMENT (PMBP) PROPOSED TO BE USED FOR THE PROJECT SHALL CONFORM TO A MIX DESIGN PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER CONFORMING TO SSHBC'S SECTION 420 USING AGGREGATE CLASSIFICATION)S) CALLED FOR IN THE PROJECT PLANS. THE DESIGN SHALL BE PROVIDED TO P&DR STAFF FOR APPROVAL A MINIMUM OF 14 CALENDAR DAYS PRIOR TO SCHEDULING THE INITIAL PAVING OPERATION OR, ALTERNATIVELY, THE PROJECT PLANS SHALL DEFINE A SPECIFIC MIX HAVING A PRIOR APPROVAL BY P&DR.

33. COMPACTION TESTING OF SUBGRADE, AGGREGATE BASE COURSE, AND EACH LIFT OF PMBP MATERIAL SHALL BE COMPLETED FOR EVERY 100 LINEAR FEET OF ROADWAY LENGTH EXCEPTING FOR PMBP MATERIAL IN WHICH CASE PROVIDE ONE (1) TEST FOR EVERY 100 LINEAR FEET OF LAYDOWN MACHINE PASS.

34. PMBP MATERIAL QUALITY TEST SAMPLES (WET) SHALL BE OBTAINED AND TESTED FOR EVERY 500 TONS OR FRACTION THEREOF OR ONE (1) SAMPLE PER DAY.

35. UTILITY APPURTENANCE SUCH AS TELEPHONE PEDESTALS, ELECTRICAL TRANSFORMERS, GAS, AND CABLE TV PEDESTALS SHALL BE PLACED OUTSIDE THE PUBLIC RIGHT-OF-WAY AND WITHIN UTILITY EASEMENTS. THE OWNER IS RESPONSIBLE FOR RELOCATING MIS-PLACED UTILITY STRUCTURES PRIOR TO REQUESTING A PRE-FINAL INSPECTION. WATER METER BOXES AND FIRE HYDRANTS MAY BE PLACED BETWEEN THE SIDEWALK AND CURB. WATER VALVE AND METER BOXES ARE NOT TO BE PLACED WITHIN MAINTENANCE AREAS OF SEMI-IMPROVED (GRAVEL OR EQUAL) ROADS.

36. CONSTRUCTION DEBRIS AND/OR EXCESS MATERIAL SHALL BE STORED IN AN ON-SITE AREA AND APPROPRIATELY CONTAINED. SAID DEBRIS SHALL NOT BE A NUISANCE TO THE SURROUND NEIGHBORHOOD. DISPOSAL OF DEBRIS SHALL BE EITHER WITHIN THE CITY LIMITS UNDER SEPARATE GRADING PERMIT OR AT A DESIGNATED NMED APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE AS TO PROPOSED DEBRIS DISPOSAL SITE LOCATION(S). ALL DEBRIS AND/OR EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO SCHEDULING A PRE-FINAL INSPECTION WITH P&DR STAFF.

37. THE CONTRACTOR SHALL MAKE WRITTEN REQUEST FOR A PRE-FINAL INSPECTION OF TERRAIN MANAGEMENT AND INFRASTRUCTURE WORKS A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE WITH P&DR STAFF. AT THIS INSPECTION, APPLICABLE CITY DIVISION STAFF WILL REVIEW THE FINAL WORK PRODUCT. ANY DEFICIENCIES WILL BE NOTED IN A "PUNCHLIST" AND PROVIDED TO THE CONTRACTOR FOR CORRECTION. WHEN ALL PUNCHLIST ITEMS ARE COMPLETED THE CONTRACTOR SHALL FILE A WRITTEN STATEMENT TO THAT EFFECT AND A FINAL INSPECTION WILL BE HELD BY P&DR STAFF. UPON ACCEPTANCE, AN ACCEPTANCE LETTER WILL BE PROVIDED WHEREIN ALL WORK WILL BE ACCEPTED FOR MAINTENANCE BY THE CITY AND THE COMMENCEMENT OF THE WARRANTY PERIOD INITIATED.

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PROJECT:
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DRAWN:
PLAN SCALE: 1" = 1'

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
10874
THOMAS A. DENSFORD

PROJECT:
GALLEGOS PROJECT
SIRINGO LANE, SANTA FE

SHEET TITLE:
GENERAL NOTES 1

AGENCY REVIEW

DEPARTMENT	SIGN-OFF	DATE

FOR AGENCY USE ONLY

SHEET NO.
C-02

GRADING NOTES:

1. THE LIMITS OF CONSTRUCTION AND LOCATIONS OF THE CONTRACTORS STAGING AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR AND APPROVED BY THE OWNER. THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED AND SHALL BE THE MINIMUM REQUIRED TO MAINTAIN ALL WORKERS IN A SAFE CONDITION, TO PROVIDE ACCESS, AND TO MEET O.S.H.A. REGULATIONS.

2. CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION CONTROL PROTECTION.

3. GRADING SETBACKS TO EXTERIOR PROPERTY LINES SHALL CONFORM TO CITY OF SANTA FE, CHAPTER 14 - TERRAIN MANAGEMENT REGULATIONS FOR GRADING.

4. THE SURVEYOR SHALL VERIFY SETBACKS, TIE IN ELEVATIONS, AND TOPOGRAPHY WHEN STAKING PROJECT.

5. UNSUITABLE MATERIAL FROM SITE GRADING AND REMOVAL OPERATIONS, SHALL BE DISPOSED AT AN APPROVED LANDFILL.

6. THE PROPERTY OWNER IS REQUIRED TO STORE EXCESS RUNOFF FROM IMPERVIOUS SURFACES (ROOFS, PARKING AREAS, ETC.) BY A COMBINATION OF RETENTION AND/OR DETENTION, AS SHOWN IN THE GRADING AND DRAINAGE PLAN.

7. ALL FILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE NMDOT SPECIFICATIONS. THE FILL SHALL BE COMPACTED AS PER THE NMDOT SPECIFICATIONS. ALL FILL SLOPES SHALL BE GRADED TO 3:1, AND ALL CUT SLOPES SHALL BE AT 2:1 MAX..

8. TRENCH DENSITY COMPACTION TESTS ARE REQUIRED HORIZONTALLY FOR EACH 100 LINEAR FEET OF MAINLINE, ALL LATERALS, MANHOLES, INLETS, AND ALL STRUCTURES THAT REQUIRE COMPACTED FOUNDATION OR CONTROLLED BACKFILL. VERTICALLY, TESTS SHALL BE TAKEN EVERY 2 TO 3 FEET OF DEPTH.

9. SLOPE ANALYSIS: EXCEPT FOR THE MAN-MADE SLOPES SHOWN ON THE CONTOURS, ALL SLOPES ARE FLATTER THAN 20%.

10. EARTHWORK SUMMARY:
    ESTIMATED GROSS EXCAVATION: APPROX. 200 CU. YD.
    ESTIMATED GROSS BACKFILL: APPROX. 200 CU. YD.
    ESTIMATED GROSS EARTHWORK: APPROX. 400 CU. YD.

    THE ABOVE VOLUMES DO NOT INCLUDE OVEREXCAVATIONS FOR PAVED AREAS OR BUILDING SLABS AND FOUNDATIONS.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY SITE EROSION CONTROL DEVICES FOR INHIBITING DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE DURING ALL PHASES OR STAGES OF CONSTRUCTION. SEE SECTION 211 OF THE NMDOT STANDARD SPECIFICATIONS.

2. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR FILING ANY CITY OR EPA DOCUMENTS INCLUDING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AND OBTAINING ANY NECESSARY PERMITS, PERTAINING TO EROSION CONTROL AND WATER QUALITY REQUIREMENTS.

3. SILT FENCING OR STRAW BALES ARE REQUIRED AT TOE OF DISTURBED SLOPES.

4. RESEEDING OF DISTURBED AREAS SHALL CONFORM TO CITY REQUIREMENTS.

SURVEY NOTES:

1. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND SHALL IN NO WAY ENCROACH ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE PROVIDED. ALL FILL AND CUT SLOPES SHALL BE SET BACK FROM THE PROPERTY LINE IN ACCORDANCE WITH CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.

2. THE CONSTRUCTION SURVEYOR SHALL VERIFY EXISTING AND PROPOSED GRADES AND INVERT ELEVATIONS, FLOW LINES, ALIGNMENTS, SETBACKS AND TOPOGRAPHY PRIOR TO CONSTRUCTION.

UTILITY COMPANIES:

UTILITY	CONTACT	TELEPHONE
WATER	SANGRE DE CRISTO WATER DIVISION CITY OF SANTA FE	505-955-4333
SEWER	CITY OF SANTA FE PUBLIC UTILITIES	505-955-4651
ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO	1-800-321-2537 950-1997 (EMERGENCY)
NATURAL GAS	NEW MEXICO GAS COMPANY	1-888-664-2726
TELEPHONE	CENTURYLINK	1-800-871-9244 1-800-573-1311 (EMERGENCY)

MATERIALS NOTES:

1. FOR ALL CONCRETE USED, THE DESIGN COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4,000 P.S.I., 7 BAG MIX AND MAXIMUM AGGREGATE SIZE OF 3/4 INCH. PERCENTAGE OF AIR ENTRAPMENT IN THE CONCRETE AT THE PROJECT SITE SHALL BE IN THE RANGE OF 4 TO 7 PERCENT.

2. THREE (3) CONCRETE CYLINDER SAMPLES ARE TO BE TAKEN FOR EACH 500 LINEAR FEET OR 50 CUBIC YARDS INSTALLED, OR A MINIMUM OF ONE SAMPLE PER DAY, WHICHEVER IS GREATER. CONCRETE CYLINDERS ARE TO BE TEST BROKEN AT 7-DAY, 28-DAY, AND 45-DAY (IF NEEDED) INTERVALS WITH TEST RESULTS SUBMITTED DIRECTLY TO THE SUBDIVISION INSPECTOR.

3. THE MAXIMUM DEVIATION OF THE TOP SURFACE OF THE CURB AND GUTTER SHALL NOT EXCEED 1/8" IN 10' NOR SHALL THE INSIDE FACE DEVIATE MAORE THAN 1/4"IN 10' FROM A STRAIGHT LINE. PRIOR TO OR DURING THE CITY'S FINAL INSPECTION, THE CURB AND GUTTER SHALL BE WATER FLOW TESTED AS DIRECTED BY THE CITY SUBDIVISION ENGINEER. ALL AREAS WITH STANDING WATER SHALL BE REJECTED.

4. THE CONTACTOR SHALL CONTACT THE SUBDIVISION INSPECTOR TO VERIFY THE DENSITY TEST RESULTS PRIOR TO INSTALLATION OF PAVEMENT STRUCTURAL SECTION. TRENCH DENSITY COMPACTION TESTS ARE REQUIRED FOR EACH 100 LINEAR FEET OF MAINLINE, ALL LATERALS, MANHOLES, INLETS, AND ALL STRUCTURES THAT REQUIRE COMPACTED FOUNDATION OR CONTROLLED BACKFILL. ALL TEST RESULTS FROM THE TESTING LABORATORY ARE TO BE SENT DIRECTLY TO THE SUBDIVISION INSPECTOR, TECHNICAL REVIEW DIVISION.

5. ASTM OR AASHTO CERTIFICATE OF MATERIALS COMPLIANCE ARE TO BE SUBMITTED TO THE CONSTRUCTION ENGINEER.

6. SUBGRADE, BASE MATERIAL, ASPHALT TREATED BASE AND ASPHALT SURFACE COURSE REQUIRE COMPACTION TESTS FOR EACH 100 LINEAR FEET. ASPHALT SAMPLES FOR EACH 500 TONS INSTALLED OR ONE SAMPLE PER DAY IS REQUIRED TO BE ANALYZED WITH TEST RESULTS SENT TO THE CONSTRUCTION ENGINEER.

FOUNDATIONS AND EXCAVATIONS:

1. SOILS INFORMATION AND INVESTIGATION HAS NOT BEEN MADE AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY THAT FOUNDATION SOILS ARE CAPABLE OF SUPPORTING 1650 POUNDS PER SQUARE FOOT. ALL EXCAVATION AND BACKFILLING SHALL BE DONE IN ACCORDANCE WITH CHAPTER 18 OF THE IBC, UNLESS OTHERWISE NOTED. THE OWNER SHOULD ENGAGE A SOILS ENGINEER TO ACT ON THE OWNER'S BEHALF IN PERFORMING COMPACTION TESTING AND OBSERVATION. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SOIL STABILITY OR BEARING CAPACITY.

2. STRUCTURAL FILL SHALL BE FREE OF VEGETATION AND DEBRIS, AND CONTAIN NO ROCKS OR CLUMPS LARGER THAN SIX INCHES NOMINAL DIAMETER. STRUCTURAL FILL SHALL BE PLACED IN EIGHT- TO TWELVE-INCH LIFTS, BROUGHT TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO NINETY-FIVE PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. THE PLASTICITY INDEX OF STRUCTURAL FILL MATERIAL SHALL NOT EXCEED 15 WHERE TESTED IN ACCORDANCE WITH ASTM D-422, AND FILL MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE:	PERCENT PASSING:
3 INCH	90% TO 100%
No. 4	70% TO 100%
No. 200	10% TO 40%

3. THE CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.

DRAINAGE SUMMARY:

TYPICAL DETENTION POND REQUIREMENT FOR EACH OF THREE LOTS:

	SCS TR-55 CURVE NUMBER	AREA (SQ. FT.)	RUNOFF DEPTH (INCHES)	RUNOFF VOLUME (CU. FT.)	PEAK DISCHARGE (CFS)
PRE-DEVELOPED:					
NATURAL	79	14575	1.31	1591	1.01
POST-DEVELOPED:					
ROOF / PAVED	98	2500	2.93	610	0.39
GRAVEL DRIVE	98	2250	2.93	549	0.35
NATURAL	79	9825	1.31	1073	0.68
TOTAL				2232	1.41

REQUIRED DETENTION POND VOLUME = 2232 - 1591 = 641 CU. FT. PER LOT

SCS SIMPLIFIED PEAK DISCHARGE METHOD USED TO COMPUTE STORMWATER RUNOFF, WITH TIME OF CONCENTRATION OF 0.1 HOURS, UNIT PEAK DISCHARGE, QU=2.3 CFS/AC-IN, PER SCS CHAPTER 2 (FOR NM), AND 100 YR.-24 HR. RAINFALL DEPTH, P=3.16" (NOAA ATLAS 14). ORIGINAL SOILS WERE OF SCS HYDROLOGIC SOIL GROUP 'C' (PREDAWN), CN FOR GRASS OPEN SPACE COVER, FAIR HYDROLOGIC CONDITION.

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PLAN SCALE: 1" = 1'
PROFILE SCALE:

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
10874
THOMAS A. DENSFORD

PROJECT:
GALLEGOS PROJECT
SIRINGO LANE, SANTA FE

SHEET TITLE:
GENERAL NOTES 2

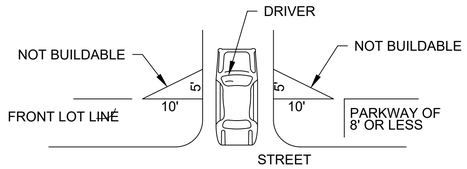
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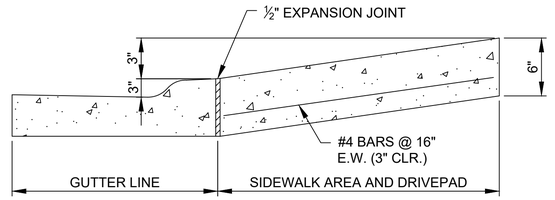


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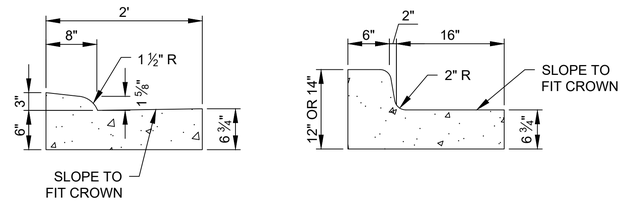
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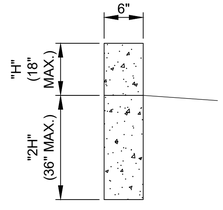
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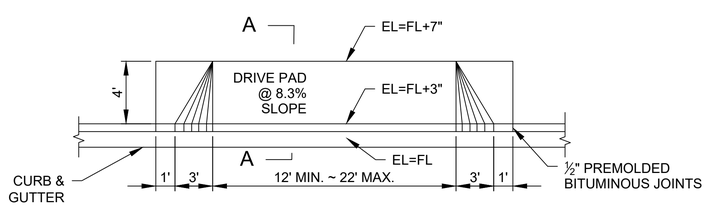
SECTION A-A



SECTIONS @ CURB CUT



HEADER CURB



DRIVE PAD PLAN VIEW

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REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
10874
THOMAS A. DENSFORD

PROJECT:
GALLEGOS PROJECT
SIRINGO LANE, SANTA FE

SHEET TITLE:
MISCELLANEOUS DETAILS

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SANGRE DE CRISTO WATER DIVISION (SDCW) GENERAL NOTES:

1. CONTRACTOR WILL NOTIFY SDCW 5 DAYS PRIOR TO COMMENCEMENT OF WORK.
2. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE SANGRE DE CRISTO WATER DIVISION CONSTRUCTION SPECIFICATIONS.
3. ALL EASEMENTS WILL BE DEDICATED, CLEARED, GRADED, AND STAKED PRIOR TO WATER LINE INSTALLATION.
4. ALL STREETS WILL BE CUT TO GRADE PRIOR TO WATERLINE INSTALLATION.
5. ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. CURB AND GUTTER WILL BE INSTALLED PRIOR TO WATER LINE INSTALLATION UNLESS OTHERWISE APPROVED IN WRITING BY SDCW.
6. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING THE APPROPRIATE RIGHT OF WAY MAPS, SIGNED PLATS AND SDCW COMPANY DRAWINGS.
7. MATERIAL SUBMITTAL SHALL BE APPROVED BY SDCW PRIOR TO CONSTRUCTION.
8. CONTACT NEW MEXICO ONE CALL AT 1-800-321-2537, TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION FOR UTILITY SPOTS.
9. PRESSURE REGULATORS WILL BE INSTALLED ON ALL SERVICES DOWNSTREAM FROM THE METER.
10. PRESSURE REGULATOR AND PRESSURE SYSTEMS MUST BE APPROVED BY THE CITY OF SANTA FE PRIOR TO INSTALLATION.
11. A MINIMUM OF 4 FEET COVER OVER TOP OF PIPE TO BE MAINTAINED.
12. CONTRACTOR TO SUBMIT VALVE TIES TO SDCW WITHIN 5 DAYS OF COMPLETION.
13. CONTRACTOR TO SUBMIT FITTING TIES AND LENGTHS BETWEEN FITTINGS TO SDCW COMPANY 5 DAYS AFTER COMPLETION. THIS INCLUDES DISTANCES FROM CORPORATION TO CORPORATION. AS-BUILT QUANTITIES AND MEASUREMENTS SHALL BE LEGIBLE AND PROVIDED ON SDCW DRAWINGS OR OTHER AGREED UPON METHOD.
14. ALL VALVE BOXES TO BE BROUGHT UP TO GRADE AFTER FIRST COURSE OF ASPHALT AND BEFORE FINAL COURSE OF ASPHALT.
15. FIRE HYDRANTS SHALL BE NUMBERED USING REFLECTIVE NUMERALS. NUMBERS ARE TO BE OBTAINED BY THE CONTRACTOR FROM THE SDCW COMPANY FIELD REPRESENTATIVE AT THE TIME THE ITA IS ISSUED.
16. A MECHANICAL RESTRAINTT SYSTEM SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINTT. CONCRETE THRUST BLOCKING TO BE USED ONLY FOR SPECIAL CONDITIONS (e.g. CAPS WHERE MAIN WILL BE EXTENDED IN THE FUTURE) AS SPECIFICALLY APPROVED BY SDCW.
17. THE CONTRACTOR CONSTRUCTING THE CITY OWNED WATER SYSTEM MUST BE AN APPROVED CONTRACTOR BY SANGRE DE CRISTO WATER DIVISION.
18. THERE SHALL BE 12" MINIMUM CLEARANCE BETWEEN WATER LINES AND STORM SEWERS/CULVERTS.
19. FEES WILL BE CHARGED TO THE CONTRACTOR THAT CONSTRUCTS THE IMPROVEMENTS SUCH AS WATER SERVICES AND HYDRANTS.
20. WORK ON THE SDCW PORTION OF THE SYSTEM CANNOT BEGIN UNTIL SDCW HAS ISSUED AN INDIVIDUAL TASK AUTHORIZATION (ITA) TO THE UTILITY CONTRACTOR.

DOMESTIC & IRRIGATION WATER SERVICE TABLE		
SERVICE ADDRESS	STREET NAME	SERVICE SIZE & TYPE (DS or IR)
XXXX	SIRINGO LANE	5/8" DS
XXXX	SIRINGO LANE	5/8" DS
XXXX	SIRINGO LANE	5/8" DS



WATER AND SEWER PLAN

LEGEND

W =	WATER LINE (C900)
SAS =	SANITARY SEWER (SDR 35)
3/4"	SINGLE 3/4" SERVICE W/5 FT. PIGTAILS
1"	DOUBLE 3/4" SERVICE W/5 FT. PIGTAILS

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REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS A. DENSFORD PRELIMINARY

PROJECT: GALLEGOS PROJECT
SIRINGO LANE, SANTA FE

SHEET TITLE: WATER AND SEWER PLAN

AGENCY REVIEW
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SHEET NO.
C-05

SANITARY SEWER GENERAL NOTES:

1. PRIOR TO THE WASTEWATER MANAGEMENT DIVISION APPROVAL OF THE PLAN SET, A LETTER WILL BE REQUIRED FROM THE PROJECT ENGINEER INDICATING THEY ARE PROVIDING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.

2. THE CONTRACTOR MUST OBTAIN ALL SEWER HOOKUP PERMITS FROM THE CITY'S BUILDING PERMITS SECTION (SEWER LINES) PRIOR TO COMMENCING ANY SEWER LINE CONSTRUCTION. A COPY OF THE PERMIT MUST BE KEPT AT THE CONSTRUCTION SITE.

3. ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD MANHOLE DETAIL SHEET" SHOWN ON THE CITY STANDARD DRAWINGS.

4. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS.

5. ALL MODIFICATIONS TO THE SANITARY SEWER PLANS MUST BE REVIEWED AND APPROVED BY THE CITY'S WASTEWATER MANAGEMENT DIVISION PRIOR TO CONSTRUCTION.

6. ADDITIONAL GENERAL NOTES ARE CONTAINED IN THE STANDARD CITY DETAIL SHEETS FOR SANITARY SEWER CONSTRUCTION.

7. ALL PUBLIC GRAVITY SEWER LINES SHALL BE A MINIMUM 8 INCH DIAMETER WITH A MINIMUM CLASS C BEDDING (2006 NEW MEXICO AMERICAN PUBLIC WORKS ASSOCIATION).

8. ALL 4 INCH AND 6 INCH DIAMETER GRAVITY SEWER PIPE SHALL BE PRIVATE. NO PRIVATE SEWER SYSTEM SHALL USE LARGER THAN A 6 INCH DIAMETER PIPE. NO PUBLIC GRAVITY SEWER LINE TO BE ACCEPTED BY THE CITY OF SANTA FE FOR PERMANENT MAINTENANCE SHALL BE LESS THAN 8 INCHES DIAMETER.

9. NO CONCRETE ENCASEMENT OF NEW OR EXISTING PUBLIC SEWER PIPE WILL BE ALLOWED UNLESS APPROVED BY THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION.

10. CORE DRILLING IS REQUIRED FOR ALL NEW CONNECTIONS TO AN EXISTING MANHOLE.

11. NO PUBLIC SEWER MAIN LINE OR MANHOLE WILL BE ALLOWED UNDER OR WITHIN A STORM WATER DETENTION/RETENTION POND.

12. PRIOR TO PAVING OVER ANY SANITARY SEWER LINES, SUBMIT T.V.TAPES AND LOGS, PRESSURE TESTS, AND THE ENGINEER'S CERTIFICATION TO THE CITY'S WASTEWATER MANAGEMENT DIVISION. AFTER THE WASTEWATER MANAGEMENT DIVISION REVIEWS THE ABOVE LISTED INFORMATION, A PRELIMINARY MANHOLE INSPECTION WILL BE CONDUCTED. WHEN ALL THE ITEMS LISTED ABOVE ARE COMPLETED TO MEET THE STANDARDS OF THE WASTEWATER MANAGEMENT DIVISION, A LETTER APPROVING PAVING WILL BE ISSUED IN RELATION TO THE SANITARY SEWER. NOTE: A FINAL MANHOLE INSPECTION WILL BE CONDUCTED AFTER THE FINAL PAVING IS COMPLETED.

13. ALL SEWER MANHOLES WITH SEWER LINES 12 INCHES IN DIAMETER AND LARGER ARE REQUIRED TO HAVE APPROVED VENTED AND LOCKING MANHOLE COVERS.

14. LOCATE WIRES SHALL BE INSTALLED FOR ALL SANITARY SEWERS (GRAVITY/FORCE MAINS). THE LOCATE WIRE MUST BE VISIBLE IN THE MANHOLE OR ACCESS STRUCTURE. THIS WILL BE VERIFIED DURING THE PRELIMINARY MANHOLE INSPECTION PRIOR TO PAVING. THE LOCATE WIRE IS TO BE A CONTINUOUS, 12 GAUGE, SOLID STRAND INSULATED COPPER WIRE.

15. OFF-ROAD PUBLIC SEWER ACCESS WILL BE PROVIDED FOR ALL PUBLIC SEWER LINES AND MANHOLES. ACCESS ROADS ARE TO BE A MINIMUM 12 FEET WIDE WITH A DRIVING SURFACE OF 6 INCHES OF COMPACTED BASE COURSE. NO ACCESS ROAD SHALL HAVE A GRADE GREATER THAN 15%. MANHOLES ARE TO BE ALIGNED WITH THE CENTER LINE OF THE ACCESS ROAD. SEWER EASEMENTS ARE TO BE A MINIMUM OF 20 FEET IN WIDTH.

16. OFF ROAD SANITARY SEWER - CALL THE WASTEWATER MANAGEMENT DIVISION AT 955-4651 FOR A FIELD REVIEW OF THE GRADING OF ALL OFF ROAD SANITARY SEWER TO ENSURE THAT THE CITY'S MAINTENANCE VEHICLES CAN ACCESS ALL MANHOLES. THE GRADES MAY BE REQUIRED TO BE ADJUSTED BASED UPON THIS INSPECTION. ADDITIONAL BANK PROTECTION MAY BE REQUIRED BASED UPON A FINAL INSPECTION BY THE WASTEWATER MANAGEMENT DIVISION AND THE PROJECT ENGINEER.

17. FOR RECORD DRAWINGS, TIE MANHOLE TO A CITY OF SANTA FE SURVEY MONUMENT AS PART OF THE FINAL RECORD DRAWINGS. SHOW CORRECTED AS-BUILT BEARING AND DISTANCES, SLOPES, RIM AND INVERT ELEVATIONS AND SEWER SERVICES ALONG THE HORIZONTAL ALIGNMENT OF THE SANITARY SEWER. FOR RECORDS DRAWINGS, A SEPARATE SUMMARY TABLE ADDED TO THE EXISTING PLAN SHEETS OR AS AN ADDITIONAL SHEET SHALL BE REQUIRED. THE SUMMARY SHEET SHALL LIST DATA FOR THE SEWER LINE SEGMENTS BETWEEN MANHOLES SHOWING THE UPSTREAM AND DOWNSTREAM MANHOLE WITH THE DESIGN SEGMENT LENGTHS, SLOPES AND BEARINGS AND THE AS-BUILT SEGMENT LENGTHS, SLOPES AND BEARINGS. THE SUMMARY SHEET SHALL INDICATE THE TOTAL NUMBER OF NEW PUBLIC MANHOLES CONSTRUCTED, THE TOTAL NUMBER OF CONNECTIONS TO EXISTING PUBLIC MANHOLES, THE TIE TO A CITY CONTROL MONUMENT AND THE TOTAL LENGTH OF AS-BUILT PUBLIC SEWER LINE CONSTRUCTED BY SIZE.

18. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING, REPAIRING AND LOCATING THE SEWER SYSTEM UNTIL CITY ACCEPTANCE FOR MAINTENANCE. DAMAGES RESULTING FROM A STOPPAGE IN ANY GRAVITY AND/OR PRESSURE SEWER SYSTEM WILL BE THE SOLE RESPONSIBILITY OF THE OWNER/DEVELOPER UNTIL A FINAL ACCEPTANCE LETTER FOR PERMANENT MAINTENANCE HAS BEEN ISSUED BY THE WASTEWATER MANAGEMENT DIVISION.

19. WATER METERS WILL NOT BE PLACED UNTIL A FINAL ACCEPTANCE LETTER HAS BEEN ISSUED BY THE WASTEWATER DIVISION FOR ALL ON-SITE SANITARY SEWER NEEDED IN ORDER FOR THE PROJECT TO CONNECT TO THE SANITARY SEWER SYSTEM.

20. 20 FOOT WIDE ACCESS GATES SHALL BE PROVIDED AT ALL FENCES, WALLS OR OTHER OBSTRUCTIONS THAT CROSS A PUBLIC SEWER LINE. ACCESS GATES TO BE LOCATED WITHIN THE SANITARY SEWER EASEMENT.

21. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR LOCATING EACH SEWER SERVICE AT THE TIME EACH LOT IS READY TO CONNECT TO THE SEWER. IT IS SUGGESTED THAT THE OWNER/ DEVELOPER RETAIN A COPY OF THE TELEVISION INSPECTION VIDEO ALONG WITH THE VIDEO LOGS. EACH SERVICE SHALL BE CLEARLY MARKED FOR EACH LOT AT POINT OF CONNECTION. ALL CALLS RECEIVED BY THIS DIVISION REGARDING THE LOCATION OF SERVICE WILL BE FORWARDED TO THE OWNER/DEVELOPER.

22. THE CONTRACTOR SHALL CALL THE WASTEWATER MANAGEMENT DIVISION (DOUGLAS FLORES AT TELEPHONE # 955-4613) FOR A FINAL MANHOLE INSPECTION. THIS INSPECTION WILL BE ISOLATED TO THE MANHOLES. THE CITY'S PLUMBING AND MECHANICAL INSPECTOR'S WILL CONDUCT ALL OTHER NECESSARY PLUMBING INSPECTIONS. NOTE: THE CITY'S PLUMBING AND MECHANICAL INSPECTORS WILL INSPECT THE INDIVIDUAL SEWER SERVICE TAPS AND LATERALS, WHICH CONNECT TO THE PUBLIC SANITARY SEWER.

23. THE EXISTING SANITARY SEWER LINE MUST BE T.V. TAPED PRIOR TO A NEW SERVICE CONNECTION BEING PLACED AS WELL AS TAPED AFTER THE SERVICES HAVE BEEN COMPLETED. THIS IS TO ENSURE THAT THE EXISTING SANITARY SEWER LINE IS NOT DAMAGED AND THE NEW SERVICE IS INSTALLED CORRECTLY.

24. ALL COSTS ASSOCIATED WITH THE OPERATION, MAINTENANCE AND REPLACEMENT OF GRINDER PUMPS FOR INDIVIDUAL LOTS SHALL BE THE RESPONSIBILITY OF THE LOT OWNER AND/OR OWNERS ASSOCIATION. FOR GRINDER PUMPS THAT CONNECT TO A PRESSURE SEWER MAIN, THE GRINDER PUMP WILL BE A MODEL MANUFACTURED BY ENVIRONMENT-ONE OR A TYPE APPROVED BY THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION. FOR GRINDER PUMPS THAT CONNECT TO A GRAVITY MAIN, THE GRINDER PUMP SHALL BE OF A TYPE APPROVED BY THE CITY OF SANTA FE PLUMBING CODE.

25. MINIMUM 12 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN THE SEWER LINE AND ANY STORM DRAIN PIPING.

26. ALL PRESSURE SEWER SYSTEMS SHALL BE AIR OR HYDROSTATICALLY PRESSURE TESTED @ 120 PSI FOR 2 HOURS MINIMUM. THE TEST IS TO BE WITNESSED AND CERTIFIED BY THE PROJECT ENGINEER. PRIOR TO BEING PUT INTO SERVICE AND ACCEPTANCE BY THE CITY OF SANTA FE, ALL PRESSURE SEWER SYSTEM MAIN LINES WILL BE FILLED WITH WATER.

27. NO PUBLIC PRESSURE SEWER SYSTEM PIPING MAY BE INSTALLED IN A COMMON TRENCH WITH OTHER UTILITIES.

28. SEWER BACKFLOW CHECK VALVES WILL BE REQUIRED FOR ALL SEWER SERVICE LATERAL CONNECTIONS TO SEWER MAINS 12 INCHES OR GREATER IN DIAMETER. THE SEWER SERVICE CONNECTION MUST BE MADE AT AN EXISTING OR NEW MANHOLE. SEWER SERVICE CONNECTIONS TO SEWER MAINS WITH PIPE SIZE DIAMETER OF 12 INCHES AND GREATER WILL NOT BE MADE WITHOUT APPROVAL FROM THE WASTEWATER MANAGEMENT DIVISION.

29. SEWER BACKWATER CHECK VALVES SHALL BE REQUIRED ON PRIVATE SEWER SERVICE LATERALS PER THE CITY OF SANTA FE PLUMBING CODE.

30. ALL PVC SEWER PIPES THAT ARE INSTALLED AT A DEPTH OF TEN (10) FEET OR GREATER OR AT A SLOPE OF ONE PERCENT (1%) OR LESS SHALL BE SDR 26 PVC PIPE.

31. ALL AS-BUILT SEWER LINE AND MANHOLE DATA SHALL BE OBTAINED AND CERTIFIED BY A LICENSED SURVEYOR OR ENGINEER. AS-BUILT DATA SUPPLIED BY OTHER THAN A LICENSED SURVEYOR OR ENGINEER SHALL NOT BE VALID FOR FINAL AS-BUILTS.

32. ALL EXISTING AND NEW PUBLIC MANHOLES WITHIN A PROJECT SHALL HAVE ACCESS FOR CITY SEWER MAINTENANCE EQUIPMENT. ALL ACCESS IS SUBJECT TO FIELD VERIFICATION AND MODIFICATION AS REQUIRED BY THE WASTEWATER DIVISION PRIOR TO FINAL PROJECT CLOSE OUT WITH THE CITY OF SANTA FE.

33. ALL SEWER LINE CROSSINGS OF RIVERS, STREAMS, ARROYOS, DRAINAGE CHANNELS, ETC. SHALL REQUIRE A BASIS OF DESIGN ANALYSIS PREPARED BY A LICENSED ENGINEER.

34. AN APPROVED BACKFLOW VALVE AND ISOLATION VALVE ARE REQUIRED ON ALL LOW PRESSURE SEWER SERVICE LINES AS PER THE CITY OF SANTA FE STANDARD SEWER SPECIFICATIONS.

35. TERMINAL FLUSHING CONNECTIONS AND IN-LINE FLUSHING CONNECTIONS ARE REQUIRED ON ALL LOW PRESSURE SEWER SYSTEMS. THE MAXIMUM SPACING BETWEEN IN-LINE FLUSHING CONNECTIONS SHALL BE 500 FEET. DISTANCES GREATER THE 500 FEET BETWEEN LOW PRESSURE SEWER IN-LINE FLUSHING CONNECTIONS SHALL BE APPROVED BY THE WASTEWATER DIVISION.

36. ALL SANITARY SEWER MANHOLES FIFTEEN (15) FEET IN DEPTH OR GREAT SHALL BE SIX (6) FOOT DIAMETER.

37. PVC SEWER PIPE SHALL BE RUN CONTINUOUS THROUGH MANHOLES WHEN PIPE OF APPROXIMATE EQUAL SLOPES ARE ENTERING AND LEAVING THE MANHOLES.

38. ALL NEW CONNECTIONS TO AN EXISTING SANITARY SEWER MANHOLE SHALL INCLUDE THE REHABILITATION REQUIRED TO MEET CITY OF SANTA FE WASTEWATER DIVISION STANDARD CONSTRUCTION DETAILS.

39. SERVICE LATERALS SHALL BE PVC SCHEDULE 40.

40. WASTEWATER UTILITY EXPANSION CHARGES SHALL BE PAID AT THE TIME OF BUILDING PERMIT APPLICATION FOR EACH LOT.

41. T.V. CAMERA INSPECTION OF THE SEWER LINE WILL BE REQUIRED BY THE CONTRACTOR. AIR TESTS OF THE SEWER LINE ARE ALSO REQUIRED BY THE CONTRACTOR.

UTILITY COMPANIES:

UTILITY	CONTACT	TELEPHONE
WATER	SANGRE DE CRISTO WATER DIVISION CITY OF SANTA FE	505-955-4333
SEWER	CITY OF SANTA FE PUBLIC UTILITIES	505-955-4651
ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO	1-800-321-2537 950-1997 (EMERGENCY)
NATURAL GAS	NEW MEXICO GAS COMPANY	1-888-664-2726
TELEPHONE	CENTURYLINK	1-800-871-9244 1-800-573-1311 (EMERGENCY)

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STATE OF NEW MEXICO
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THOMAS A. DENSFORD

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SIRINGO LANE, SANTA FE

SHEET TITLE:
SANITARY SEWER NOTES

AGENCY REVIEW

DEPARTMENT	SIGN-OFF	DATE

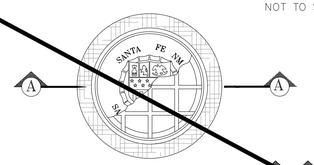
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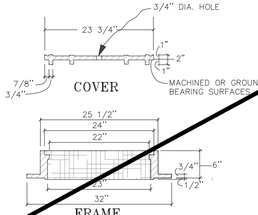
LEGEND

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-1
8	6"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
11	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18"(in) to bell of first joint and shall cradle pipe half pipe
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-6
13	SHELF, to be 9"(in) minimum width with 1"(in) per 1'-0" slope, from crown of pipe
14	CUT UPPER HALF OF PIPE, after manhole has been completed and inspected by engineer
15	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
16	INVERT ELEVATIONS OF LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE OF PIPE, at center of manhole
18	APPROVED WATER STOP, to be with type of pipe

NOT TO SCALE



PLAN VIEW @ X-SECTION (A) (A)

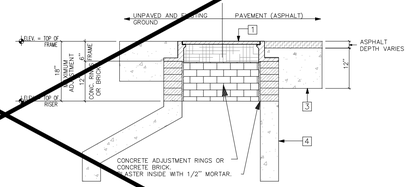


COVER

FRAME

PROFILE VIEW @ X-SECTION (A) (A)

MANHOLE FRAME & COVER DETAIL/DWG # SAS-4



PROFILE VIEW

NOT TO SCALE

MANHOLE ADJUSTMENT DETAIL/DWG # SAS-5

GENERAL NOTES

CONSTRUCTION REQUIREMENTS

CR-1 MATERIALS AND WORK:
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY THE CITY OF SANTA FE.

CR-2 APPROVED PLANS:
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.

CR-3 SEWER HOOK-UP PERMIT:
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.

CR-4 SUBSTITUTIONS OR CHANGES:
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE CITY WATER QUALITY DIVISION OR CITY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE CITY WATER QUALITY DIVISION FOR APPROVAL. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.

CR-5 MANUFACTURER'S CERTIFICATES:
WHEN CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.

CR-6 CONTRACTOR REQUIREMENTS:
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED UTILITY CONTRACTOR.

INSTALLATION

I-1 LAYING PIPE:
AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.
A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.
B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

I-2 MANHOLE CONSTRUCTION:
A. BASE:
1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE.
2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING
B. PRECAST BARREL:
1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL
2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.
3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

I-3 EXCAVATION AND BACKFILL:
AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY.
1. 4" THRU 15" (inch) DIAMETER, ASTM D-3034 OR ASTM F-789 PIPE. MINIMUM PS-46 STRENGTH. SDR-35 OR EQUAL
2. LARGER THAN 15" (IN.) DIAMETER: ASTM F 679 VOL. 08.04.
C. HDPE PIPE PER ASTM D-1248 CLASS III WHEN APPROVED BY WATER QUALITY DIVISION ENGINEER.
D. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1390 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKETED AS "YELLOWMINE" AND PRODUCED BY CERTAINTEED CORPORATION, OR APPROVED EQUAL.
E. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
F. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
G. SERVICE CONNECTIONS:
1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.
2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS; FOWLER "QUICKWAY",GENECO, HERSEY "PIONEER", OR APPROVED EQUAL.
H. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.

CM-2 MANHOLES:
A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
D. FRAMES AND COVERS:
1. CASTING; SHALL CONFORM TO SECTION 160, 161 & 162, NM, APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 165 POUNDS
3. MINIMUM COMBINED WEIGHT: 365 POUNDS +/- 5%
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE, N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.
8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

CM-3 CONCRETE ENCASEMENT:
A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN VITRIFIED CLAY CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE ENCASED IN CONCRETE 6"(IN.) THICK AS DETAILED, AND EXTEND AT LEAST 10'(FT.) ON EACH SIDE OF THE WATER LINE.

FIELD QUALITY CONTROL

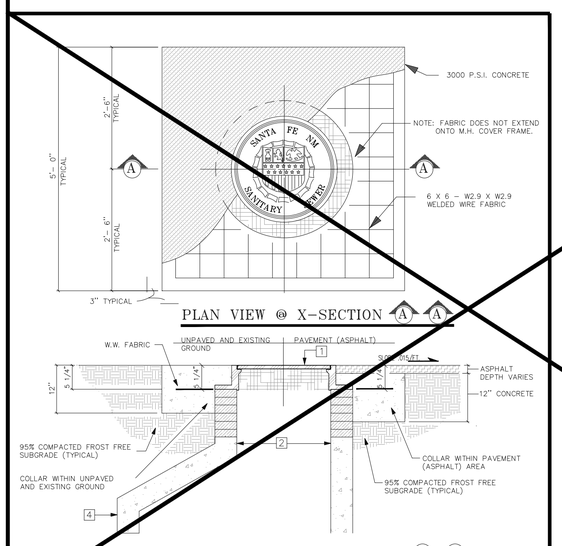
FQC-1 TESTING AND INSPECTION:
A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN;
A. LINE: 0.20 FOOT
B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.

FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.



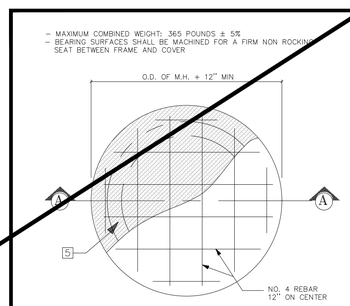
PLAN VIEW @ X-SECTION (A) (A)

PROFILE VIEW @ X-SECTION (A) (A)

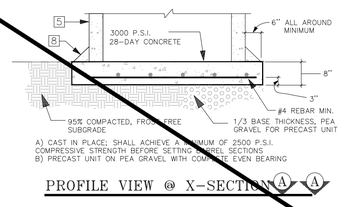
CONCRETE COLLAR DETAIL/DWG. # SAS-6

NOT TO SCALE

- MAXIMUM COMBINED WEIGHT: 365 POUNDS ± 5%
- BEARING SURFACES SHALL BE MACHINED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER



PLAN VIEW @ X-SECTION (A) (A)



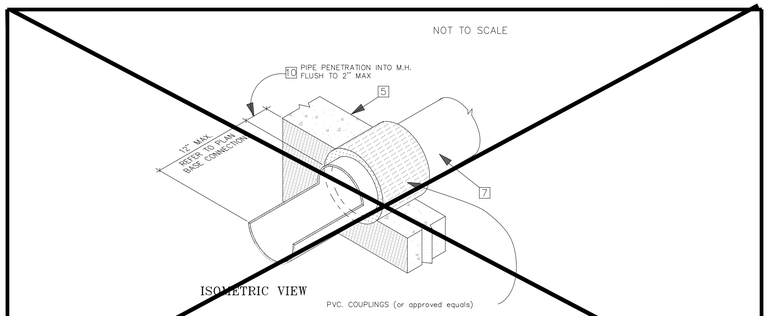
PROFILE VIEW @ X-SECTION (A) (A)

NOT TO SCALE

CONCRETE BASE DETAIL/DWG. # SAS-7

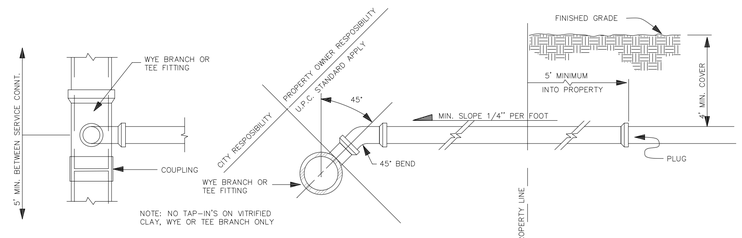
NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF THE CITY OF SANTA FE ONLY.

NOT TO SCALE

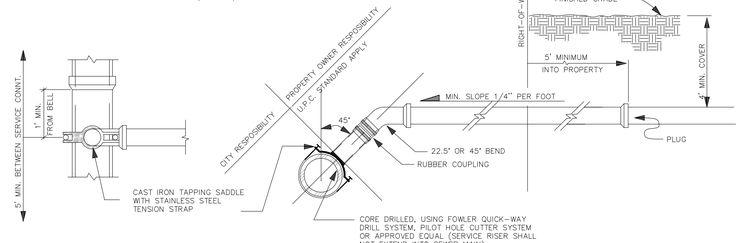


ISOMETRIC VIEW

MANHOLE ADAPTER DETAIL/DWG. # SAS-8



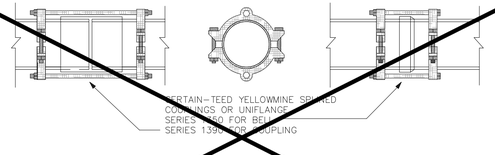
TO VITRIFIED CLAY (V.C.) SEWER LINE



TO PVC SEWER LINE

NOT TO SCALE

SERVICE CONNECTION DETAILS/DWG. # SAS-10



NOTE: AT RIVER AND ARROYO CROSSINGS

RESTRAINED JOINT DETAIL/DWG. # SAS-9

NOT TO SCALE

WATER QUALITY DIVISION
UTILITY DEVELOPMENT

CITY OF SANTA FE
WATER QUALITY DIVISION

TITLE: SANITARY SEWER
STANDARD CONSTRUCTION DETAILS

	REVISIONS		
DATE: JULY 1992			FILE #: E:\AUTO\DWG\SCDT2-4
DRAWN BY: G. CHAVEZ	8-3-92	1-12-96	
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APPROVED BY: E. BROWN	11-16-94		