

GENERAL NOTES

SEWER PLAN

QUANTITIES

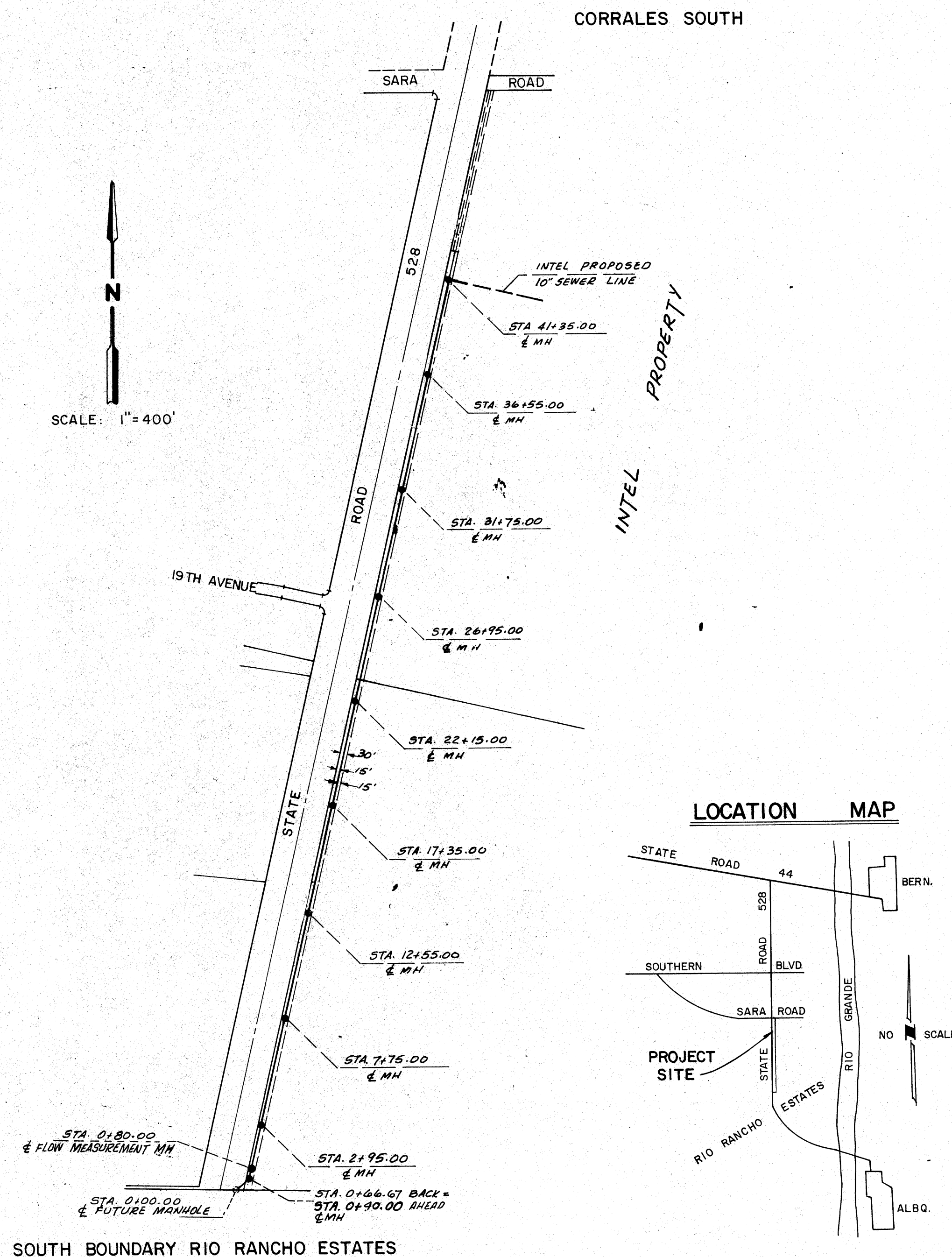
- THE SEWER IMPROVEMENTS, AS SHOWN ON THESE PLANS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH DESIGNATED SECTIONS OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR SEWER IMPROVEMENTS FOR Outfall Sewer Line along New Mexico State Road 528 Dated JULY 14, 1980
- STANDARD DRAWINGS NOTED HEREON REFER TO STANDARD DRAWINGS OF THE ALBUQUERQUE UTILITIES CORPORATION COPIES OF THE REFERENCED STANDARD DRAWINGS ARE INCLUDED WITH THE PROJECT SPECIFICATIONS.
- A COPY OF THE NEW MEXICO STANDARD SPECIFICATIONS, THE PROJECT SPECIFICATIONS, AND THE PROJECT DRAWINGS SHALL BE KEPT AT THE JOB SITE BY THE CONTRACTOR AT ALL TIMES.
- THE CONTRACTOR AGREES THAT HE 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, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE DEPICTED LOCATION, THE EXISTENCE OR THE NON-EXISTENCE OF UTILITY LINES. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN, BY VERIFICATION OF LINE LOCATION IN THE FIELD PRIOR TO THE INSTIGATION OF THE ACTUAL PORTION OF WORK ATTRIBUTED TO THEIR LOCATION.
- NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE OWNER AND THE ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES, OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS, OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PIPE FOR SEWER LINES AND LATERALS SHALL BE POLYVINYL CHLORIDE CONFORMING TO ASTM D 3034.
- HOUSE LATERALS SHALL BE 4" PVC AND SHALL BE CONSTRUCTED AT A MINIMUM GRADE OF 2.0% FROM THE WYE CONNECTION TO THE MAIN SEWER LINE TO THE PROPERTY LINE. WHERE HOUSE LATERALS ARE DESIGNATED BY THE SYMBOL $\overline{\text{PL}}$, THE HOUSE LATERAL SHALL BE CONSTRUCTED WITH THE WYE SET HORIZONTAL AND THE HOUSE LATERAL CONSTRUCTED AT A GRADE OF 2.0%. WHERE HOUSE LATERALS ARE DESIGNATED BY THE SYMBOL $\overline{\text{S}}$, THE HOUSE LATERAL SHALL BE CONSTRUCTED ON A STRAIGHT GRADE FROM THE WYE CONNECTION AT THE MAIN SEWER LINE TO THE DEPTH SHOWN IN THE SYMBOL AT THE PROPERTY LINE. THE DEPTH SHOWN SHALL BE MEASURED FROM THE FINISH GRADE TO THE INVERT ELEVATION OF THE HOUSE LATERAL.
- SEWER LINE DISTANCES SHOWN IN PROFILE ARE MEASURED IN A HORIZONTAL LINE BETWEEN CENTER-LINES OF MANHOLES.
- ABBREVIATIONS SHOWN HEREON AND THE LEGEND FOR SYMBOLS SHOWN HEREON SHALL BE AS SHOWN ON STANDARD DRAWING NO. S-1.
- THE CONTRACTOR SHALL NOTIFY ALBUQUERQUE UTILITIES AT LEAST 24 HOURS PRIOR TO STARTING WORK ON THIS PROJECT.
- MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING S-2.
- PIPE BEDDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING S-3.
- SEWER LINE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH STANDARD DRAWING S-6.
- WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES A MINIMUM OF 10 FEET APART HORIZONTALLY. WITH THE WATER LINE HIGHER IN ELEVATION THAN THE SEWER. IF HORIZONTAL SEPARATION IS LESS THAN 10 FEET, THE WATER LINE SHALL BE A MINIMUM OF 2 FEET IN ELEVATION HIGHER THAN THE SEWER. AT ALL CROSSINGS OF WATER AND SEWER LINES THE WATER LINE SHALL BE A MINIMUM OF 3 FEET HIGHER THAN THE SEWER OR THE SEWER LINE SHALL BE OF CAST IRON OR STEEL A DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER LINE.
- CONTRACTOR SHALL VERIFY QUANTITIES PRIOR TO SUBMITTING BID PROPOSALS AND CONSTRUCTION.

NOTE:
(417.87') (EL. 5227.52) DENOTES AS-BUILT
MEASUREMENTS-SURVEYED APRIL 10, 1981.

DESCRIPTION	UNIT	QUANTITY
15" PVC Sewer Installation Only - Pipe to be supplied by Owner.	L.F.	120
18" PVC Sewer Installation Only - Pipe to be supplied by Owner.	L.F.	4000
18" to 15" Cast Iron Bell Reducer	EA.	1
Std. Concrete Manhole W/Frame & Cover	EA.	10
8' Dia. Concrete Metering Manhole w/15" Flume Complete with Controls	EA.	1
Brick and Mortar Plugs	EA.	3
10" PVC Sewer Installation Only - Pipe to be supplied by Owner	L.F.	20

BENCH MARK

FIRE HYDRANT ON SOUTH SIDE
OF SARA ROAD NORTH OF FORMER
GENERAL TELEPHONE & ELECTRONICS
BUILDING NORTH BONNET BOLT
ELEVATION 5265.05



APPROVALS

ENGINEER: *[Signature]* DATE: 7/7/80

RIO RANCHO ESTATES: *[Signature]* PROJECT ENGINEER DATE:

ALBUQUERQUE UTILITIES CORP. *[Signature]* MANAGER DATE: 12/18/80

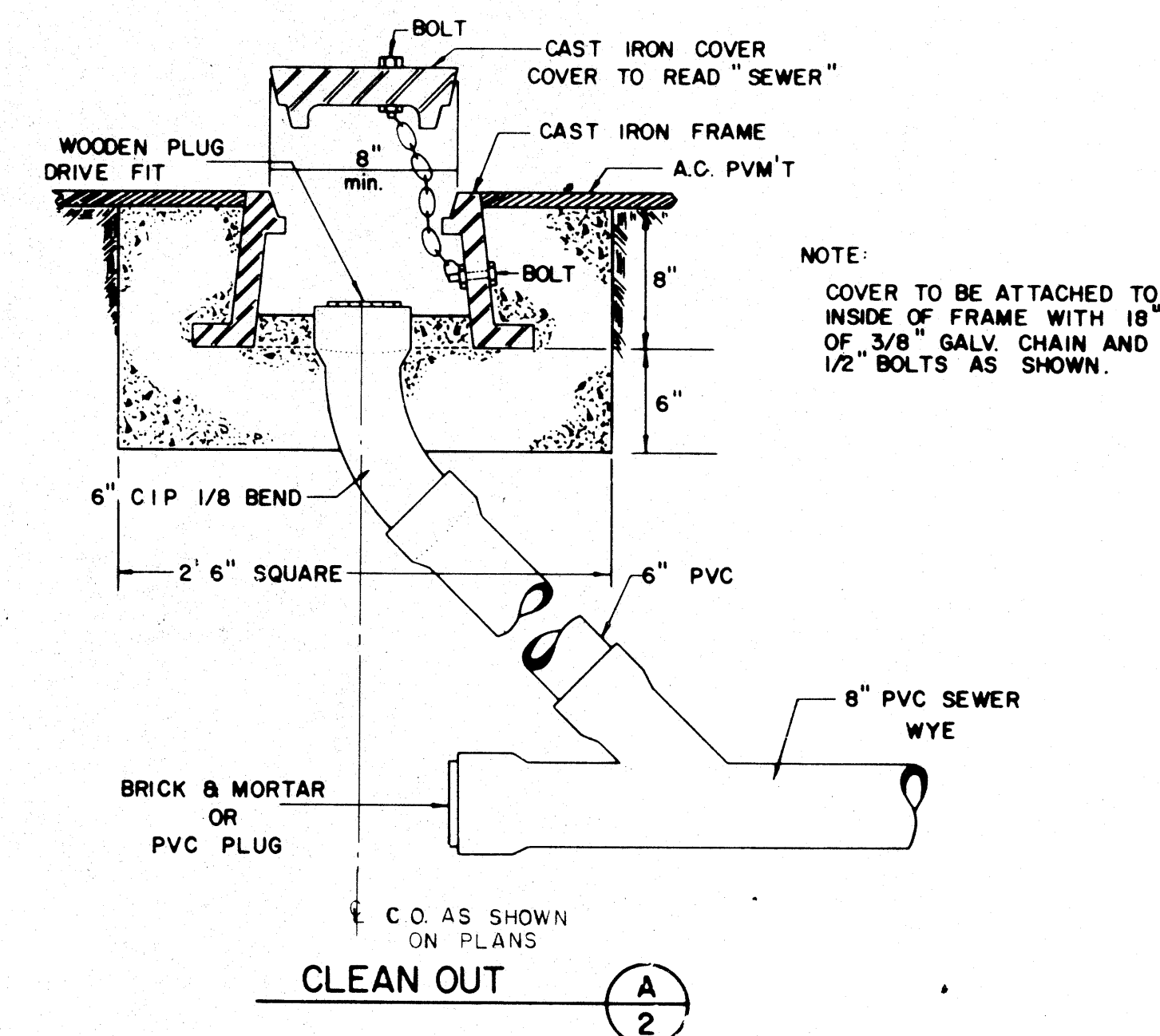
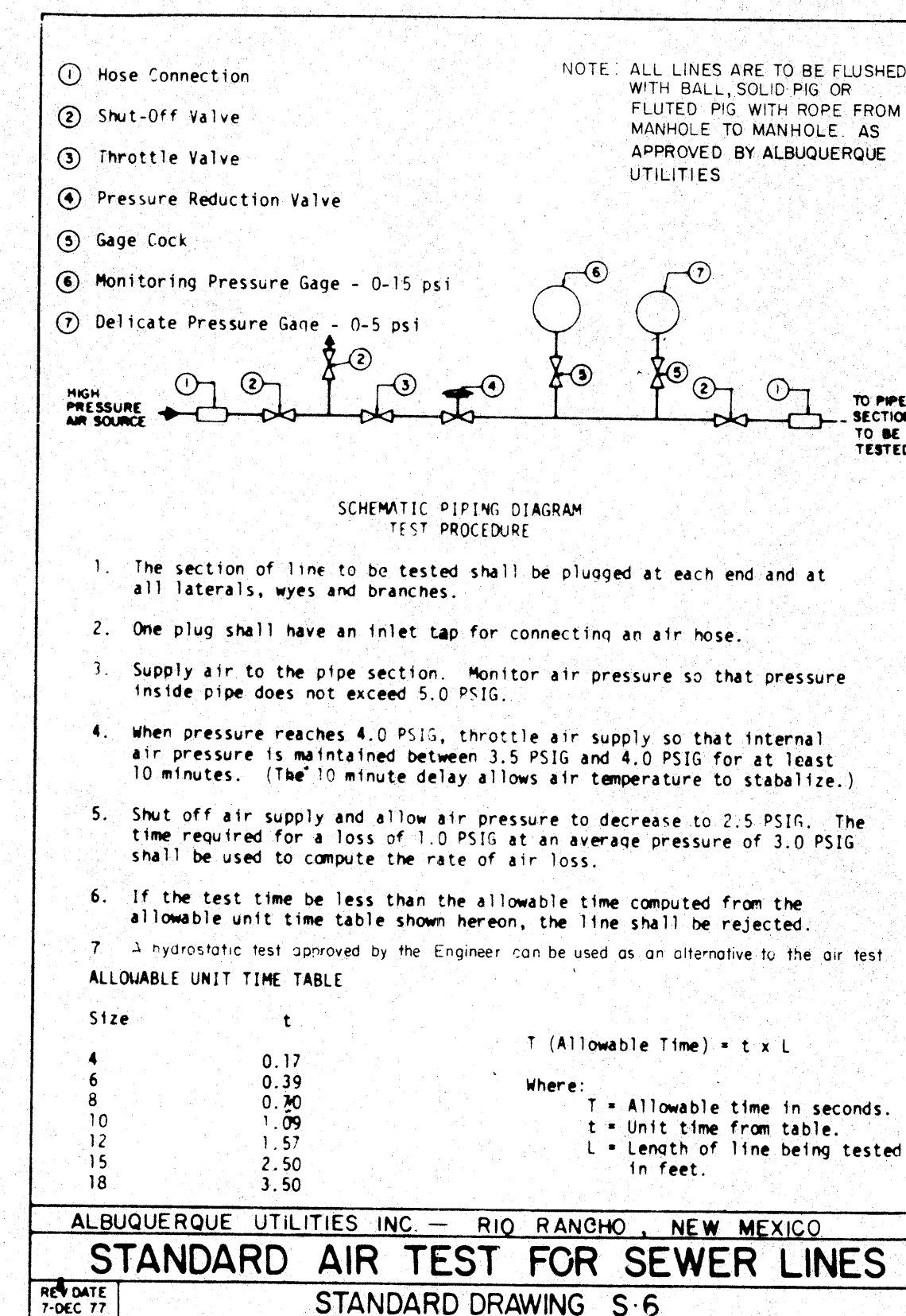
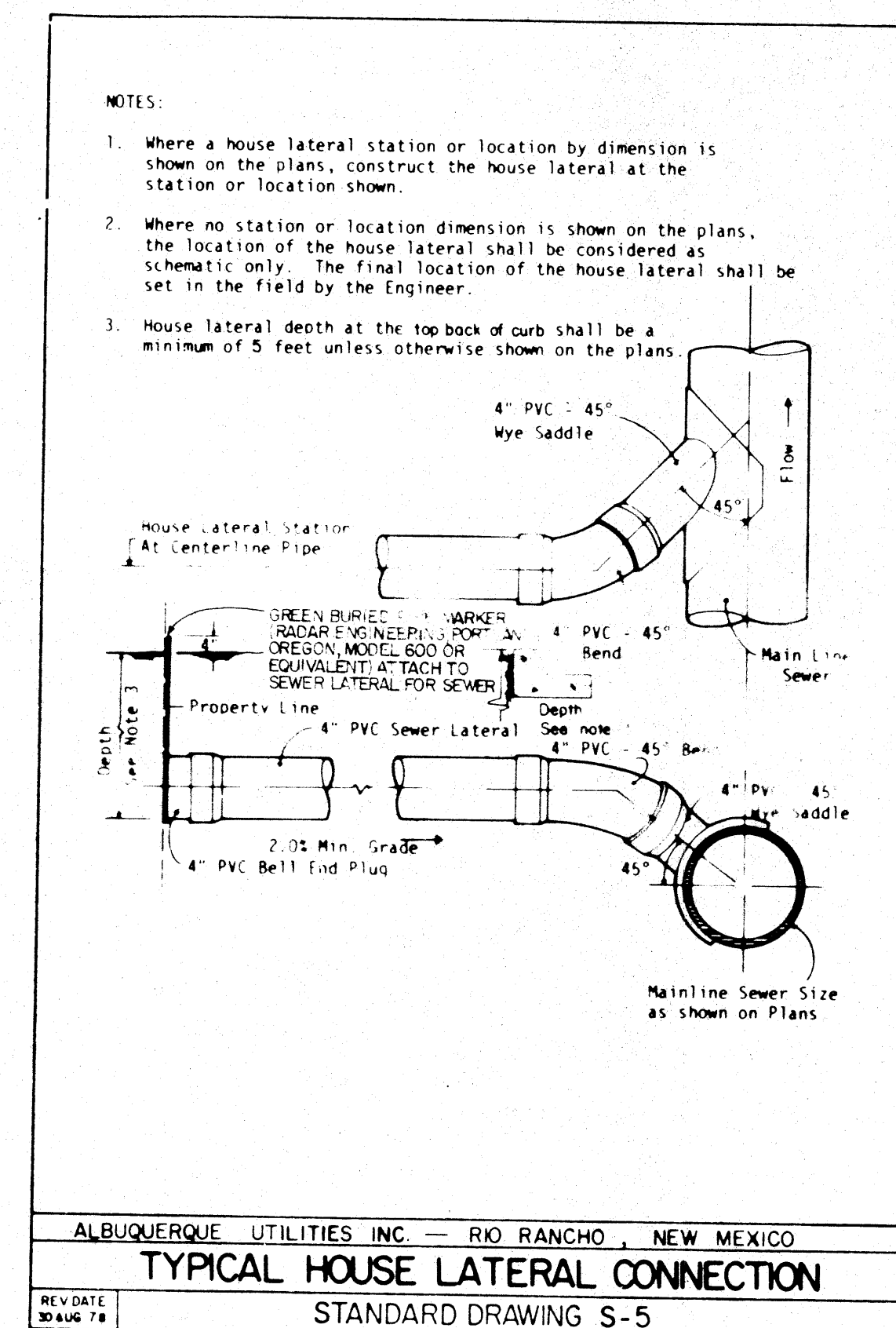
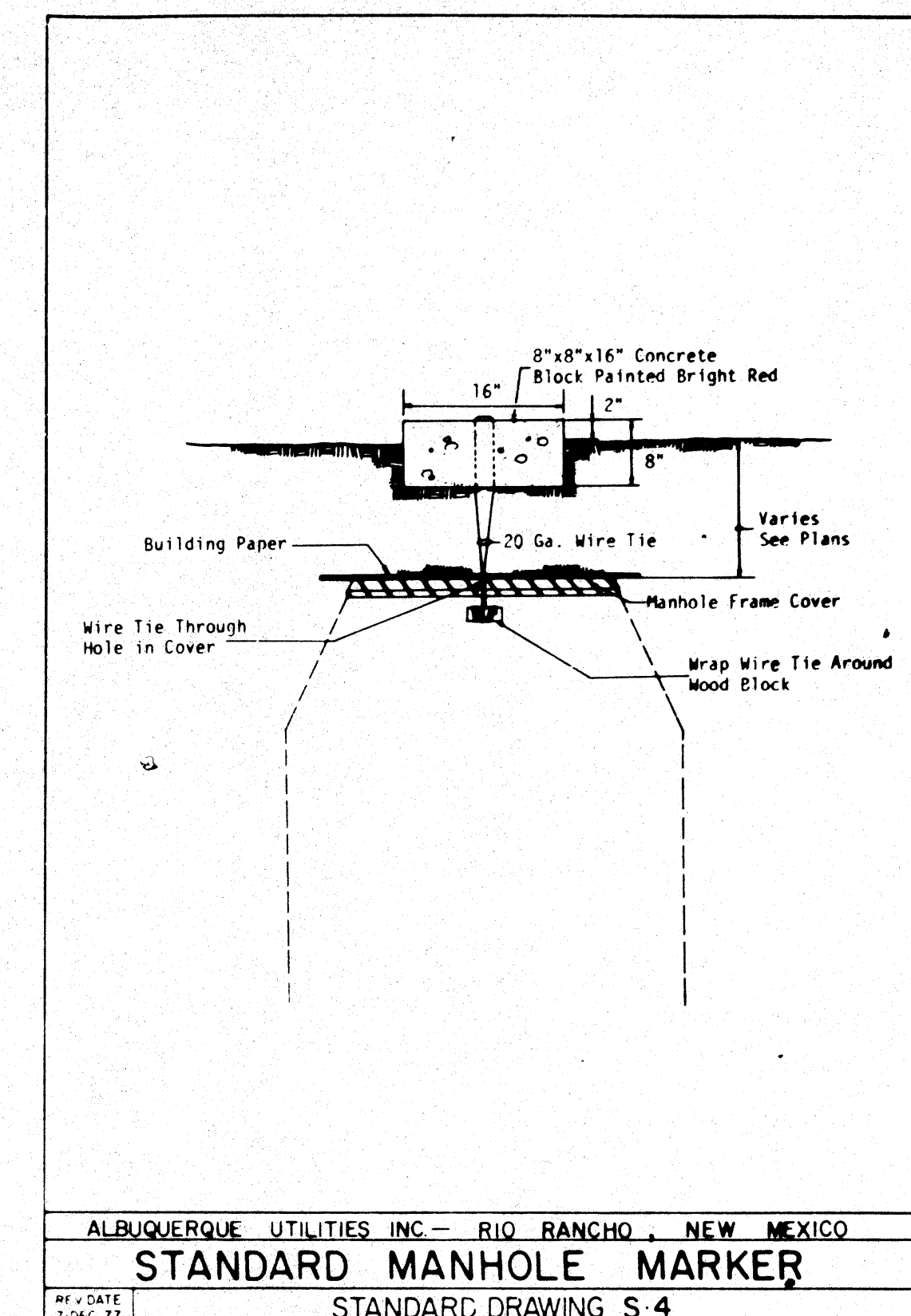
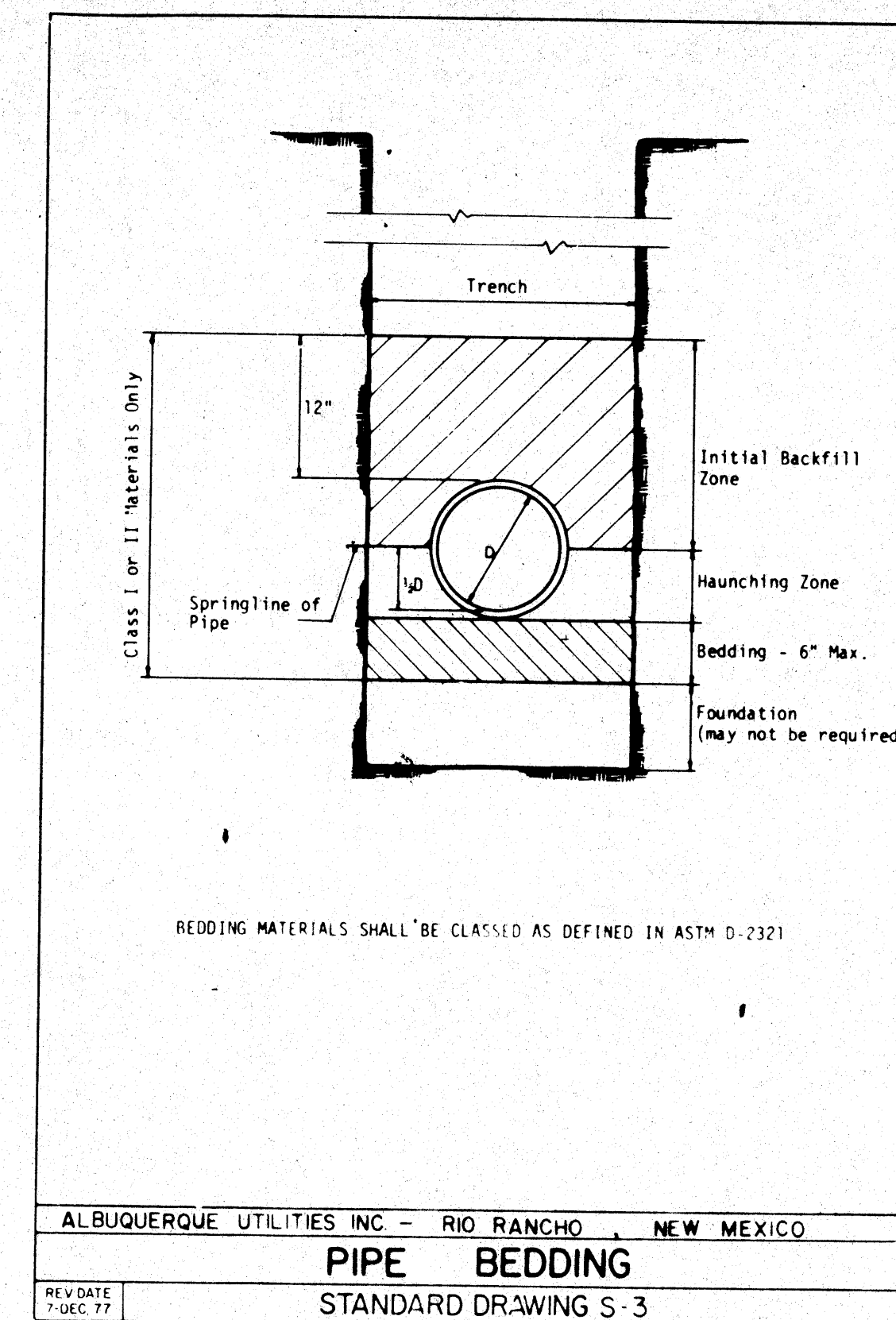
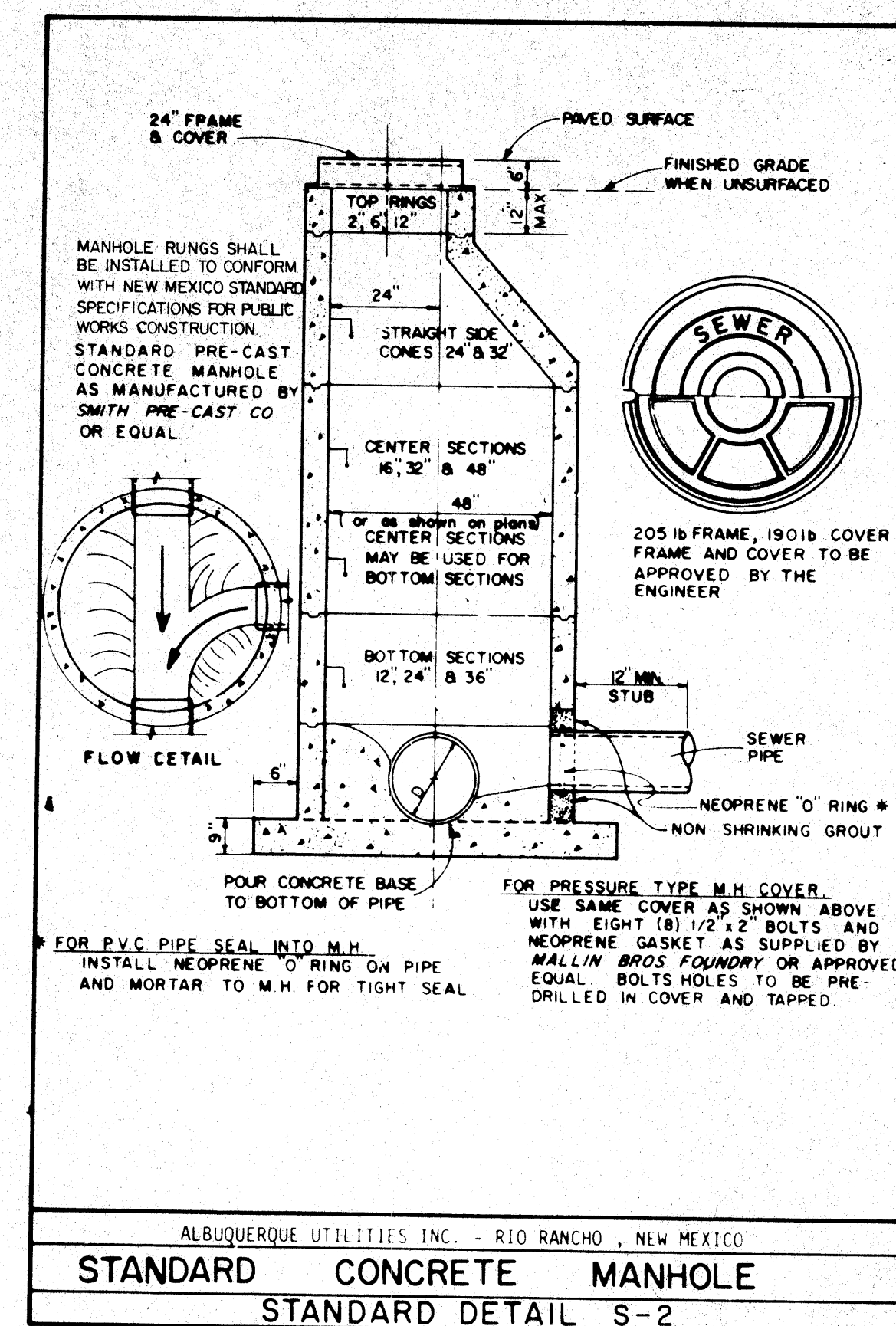
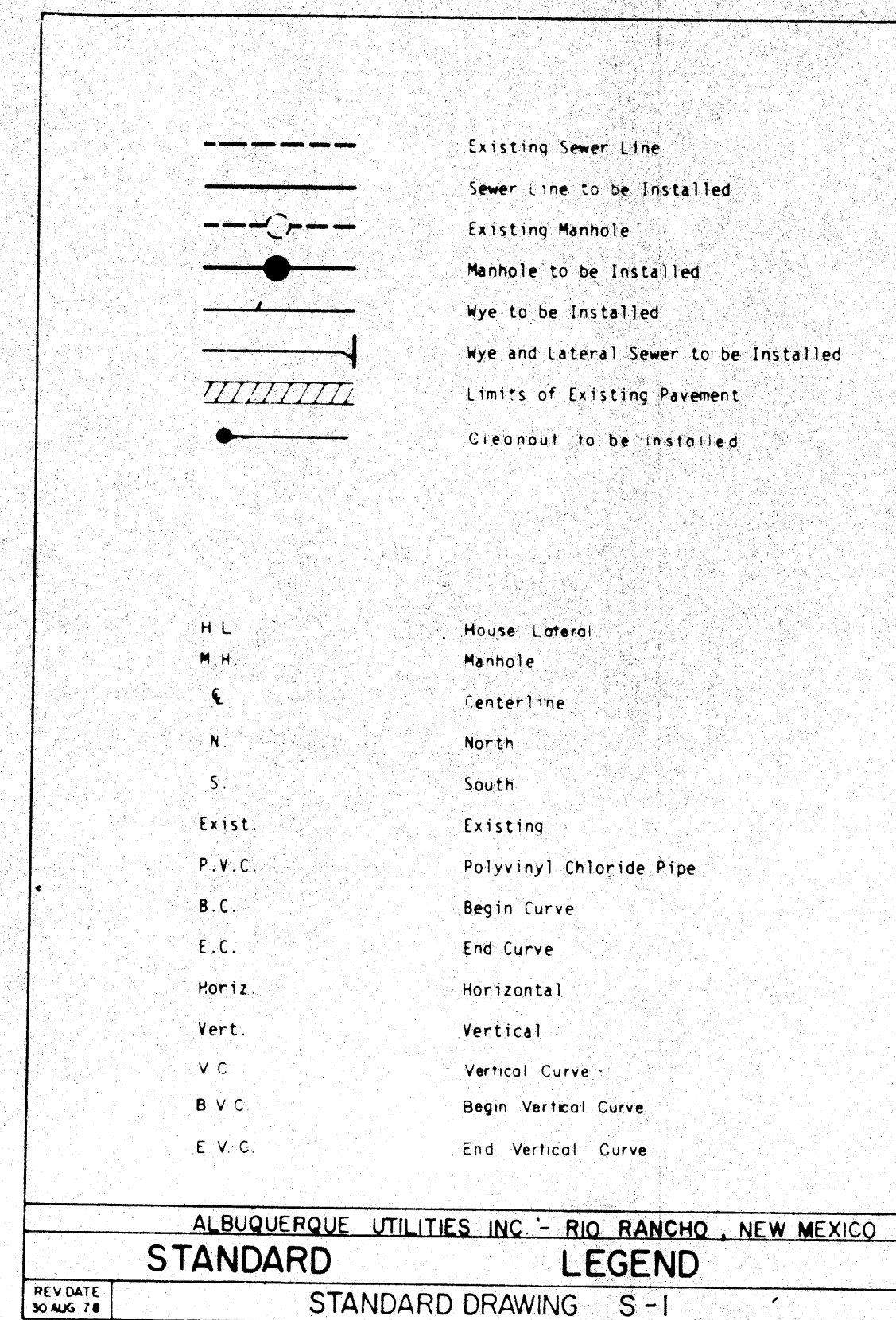
DRAWN BY:	DATE:	NO.	DATE:	BY:	REVISIONS & REMARKS
J.D.R.	6-80				
DESIGNED BY:	DATE:	1	12-10-80	DBH	ADDED MEASURED MANHOLE
D.B.H.	6-16-80				
CHECKED BY:	DATE:	2	2-6-81	DBH	REVISED PIPE SIZE AND PROFILE
R.R.C.	6-30-80				
SCALE:		3	2-23-81	DBH	REVISED ALIGN. 0+00 TO 0+40.00
AS NOTED					
DRAWING NUMBER:					

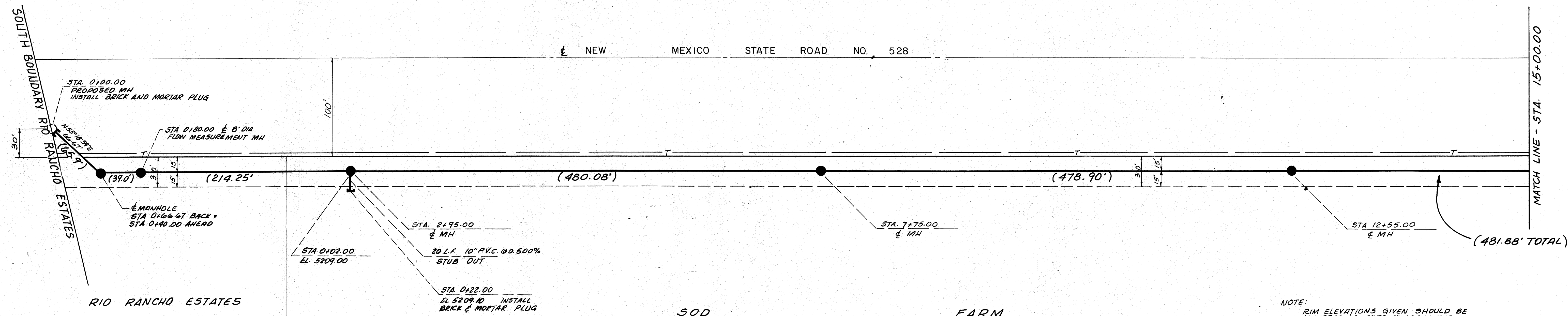


**CIVIL ENGINEERS
& LAND PLANNERS**
4100 SOUTHERN BLVD./RIO RANCHO, NM 87124

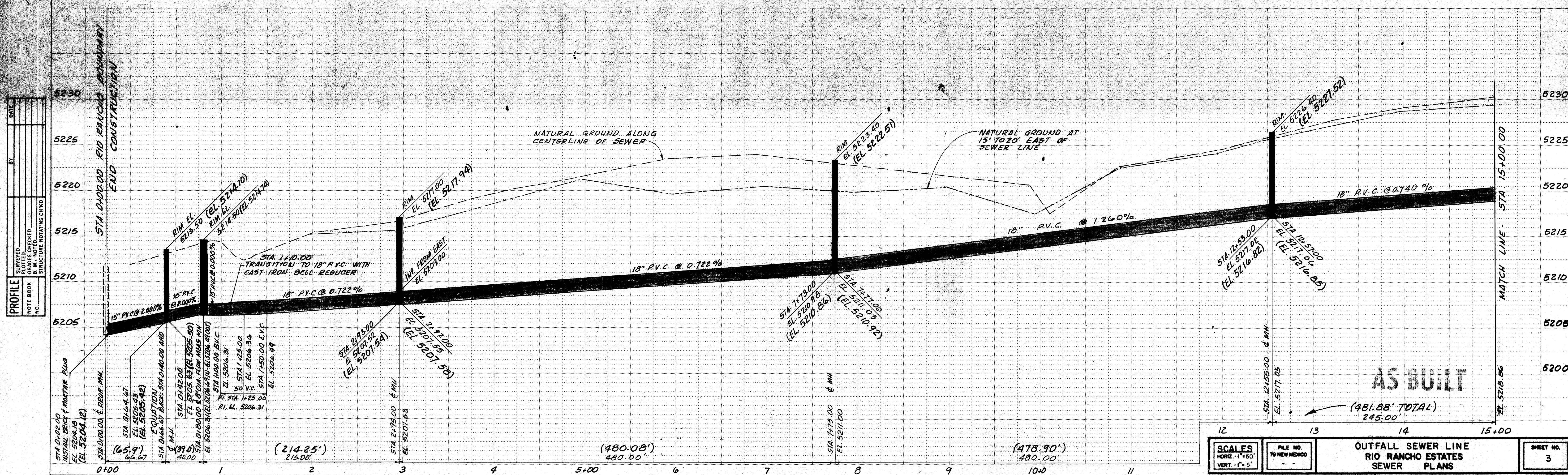
OUTFALL SEWER LINE ALONG NEW MEXICO STATE ROAD 528
RIO RANCHO ESTATES
SEWER PLANS
AS BUILT

SHEET
1
OF 6
SHEETS

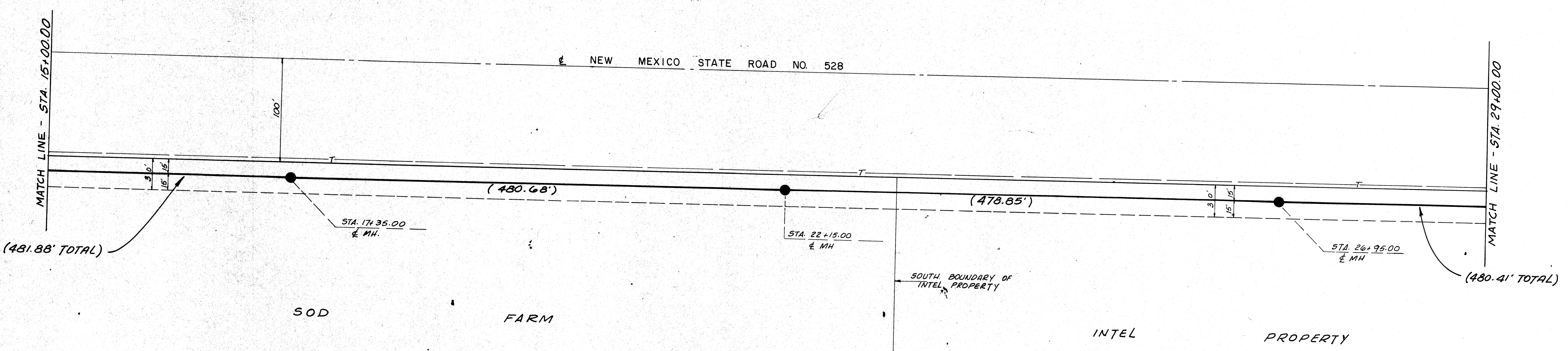




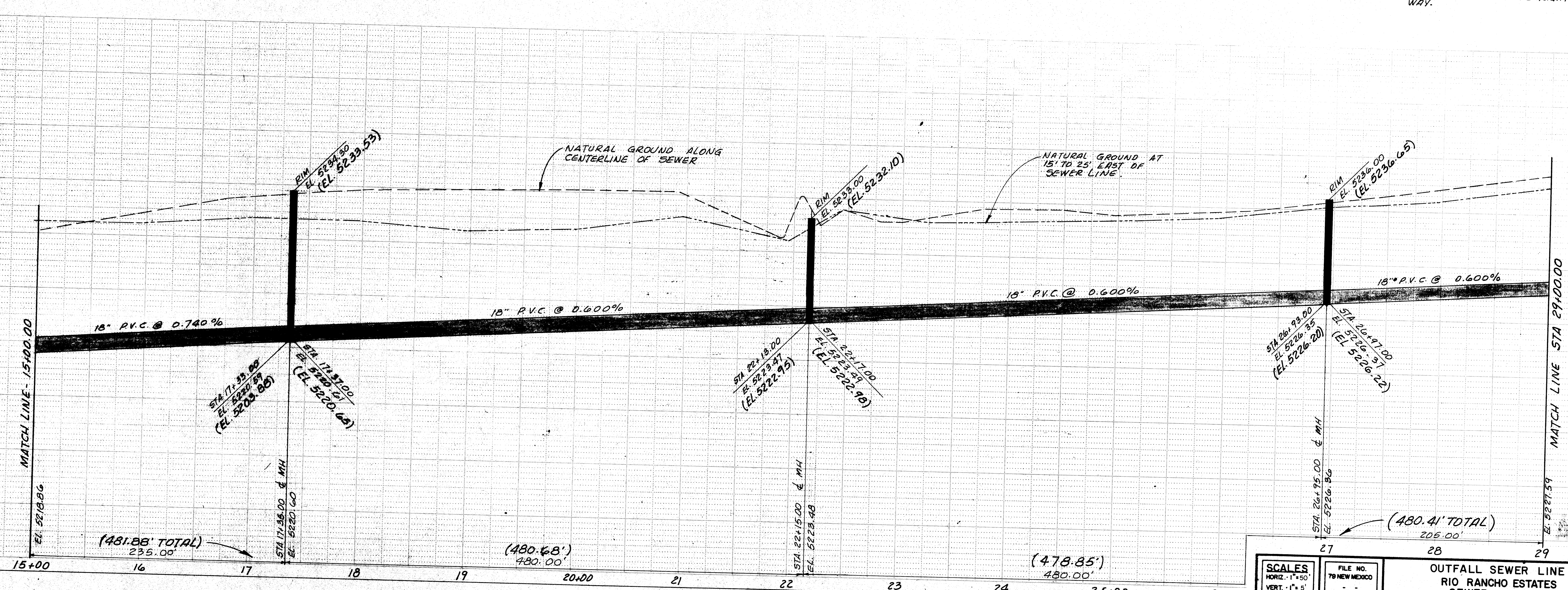
NOTE:
RIM ELEVATIONS GIVEN SHOULD BE
ADJUSTED TO 2" TO 4" ABOVE THE
FINISHED GRADE OF THE SEWER
RIGHT OF WAY.



A



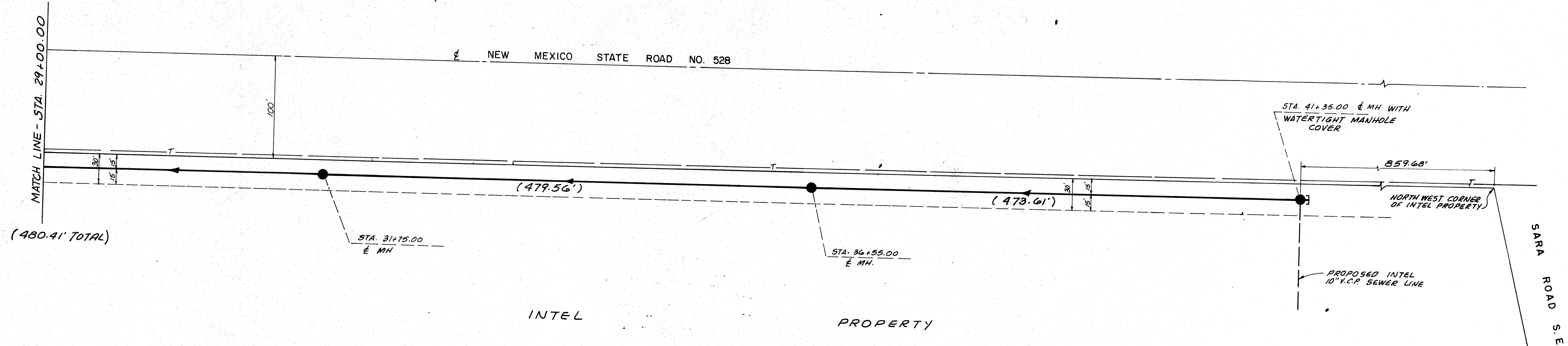
NOTE:
RIM ELEVATIONS GIVEN SHOULD BE
ADJUSTED TO 2" TO 4" ABOVE THE
FINISHED GRADE OF THE RIGHT OF
WAY.



SCALES HORIZ. 1"=50' VERT. 1"=5'	FILE NO. 79 NEW MEXICO	OUTFALL SEWER LINE RIO RANCHO ESTATES SEWER PLANS	SHEET NO. 4

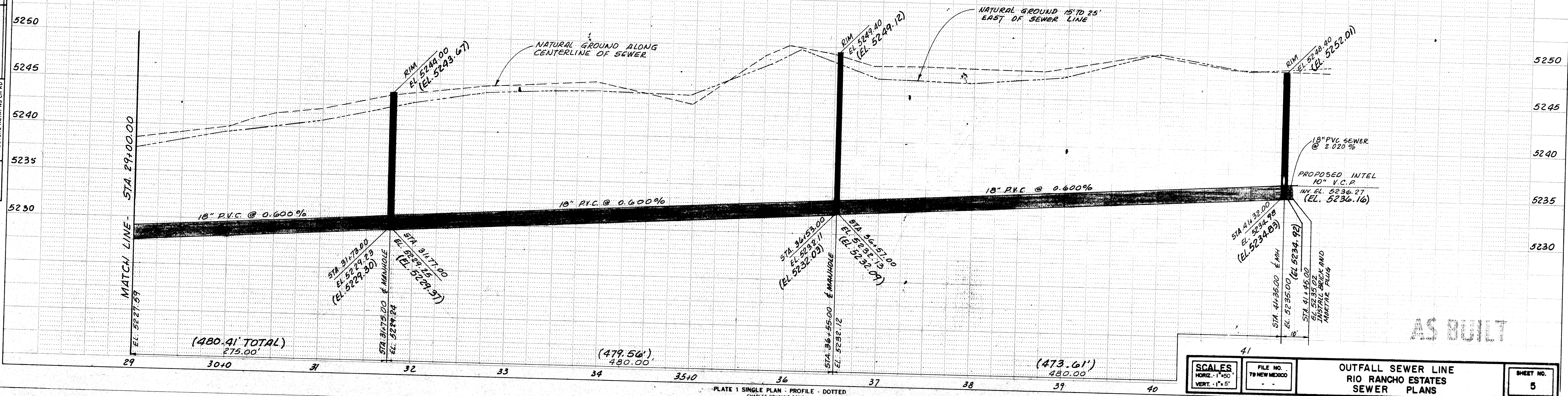
PLATE 1 SINGLE PLAN - PROFILE - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

PLAN	DATE
SURVEYED	BY
NOTED	BY
PLOTTED	BY
CHECKED	BY
NO	BY



NOTE:
RIM ELEVATIONS GIVEN SHOULD BE
ADJUSTED TO 2" TO 4" ABOVE THE
FINISHED GRADE OF THE SEWER RIGHT OF WAY.

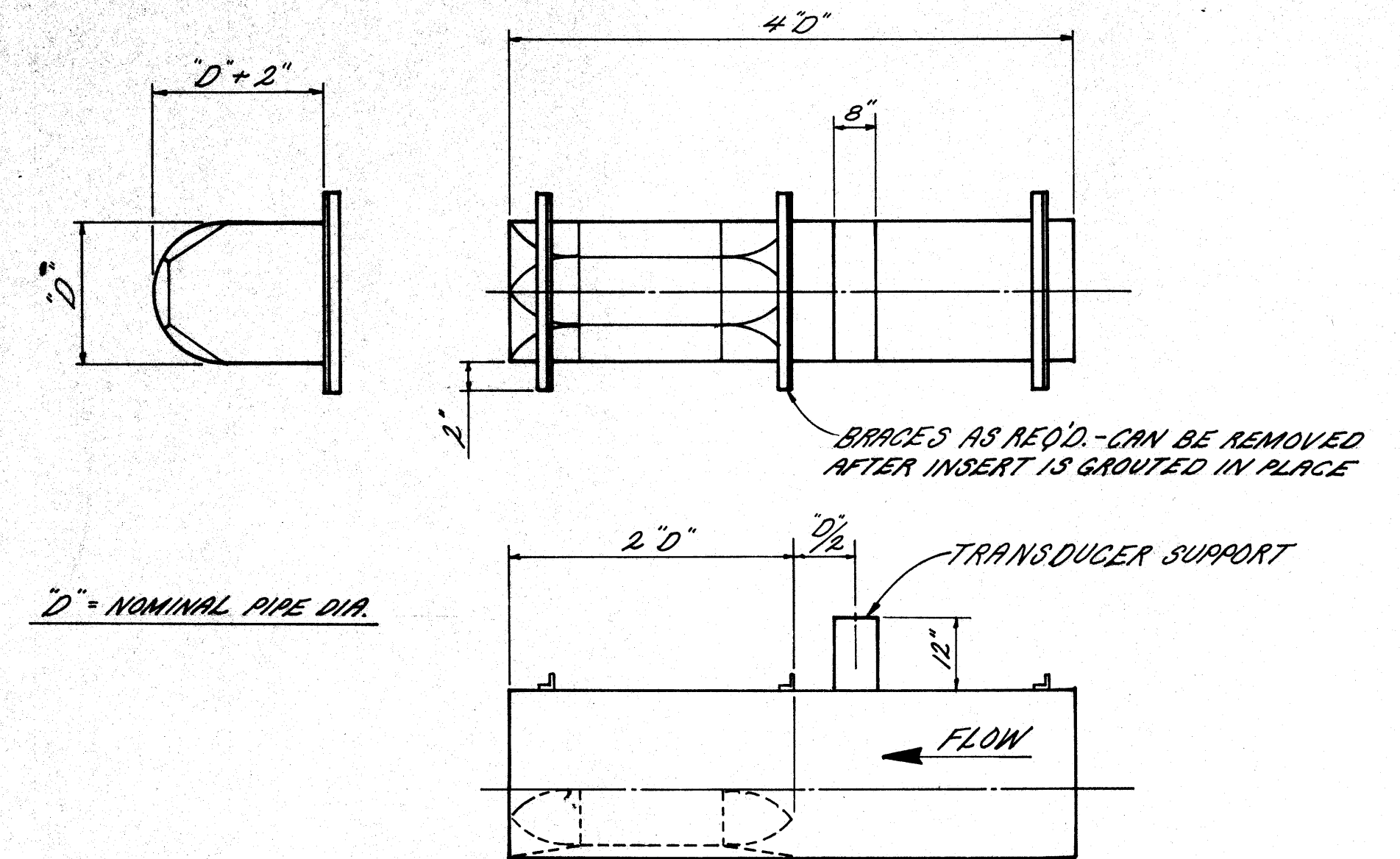
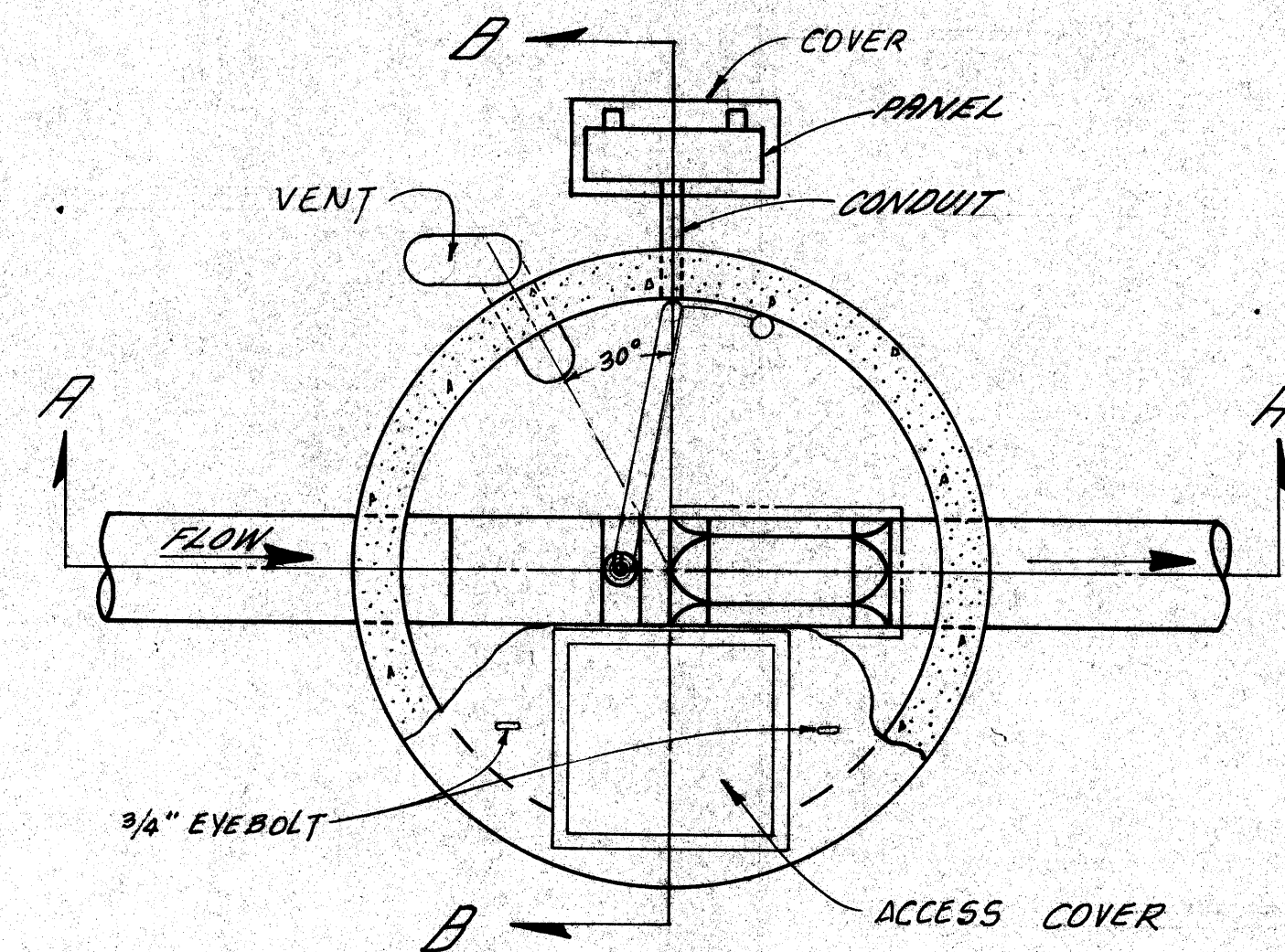
PROFILE	DATE
SURVEYED	BY
NOTED	BY
PLOTTED	BY
CHECKED	BY
NO	BY



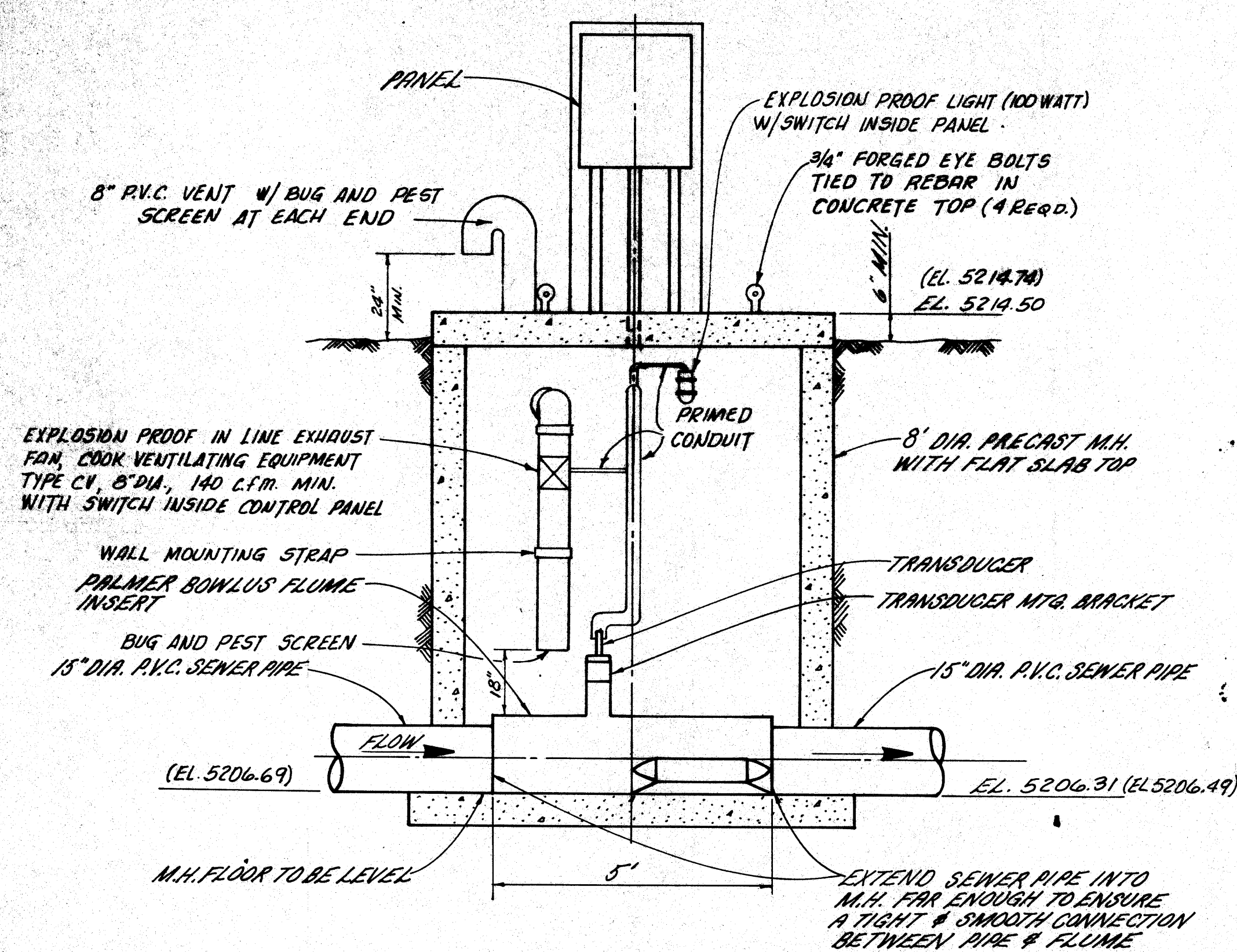
AS BUILT

SCALES HORIZ. 1"=50' VERT. 1"=5'	FILE NO. 79 NEW MEXICO	OUTFALL SEWER LINE RIO RANCHO ESTATES SEWER PLANS	SHEET NO. 5
---	---------------------------	--	-----------------------

FLOW MEASUREMENT MANHOLE



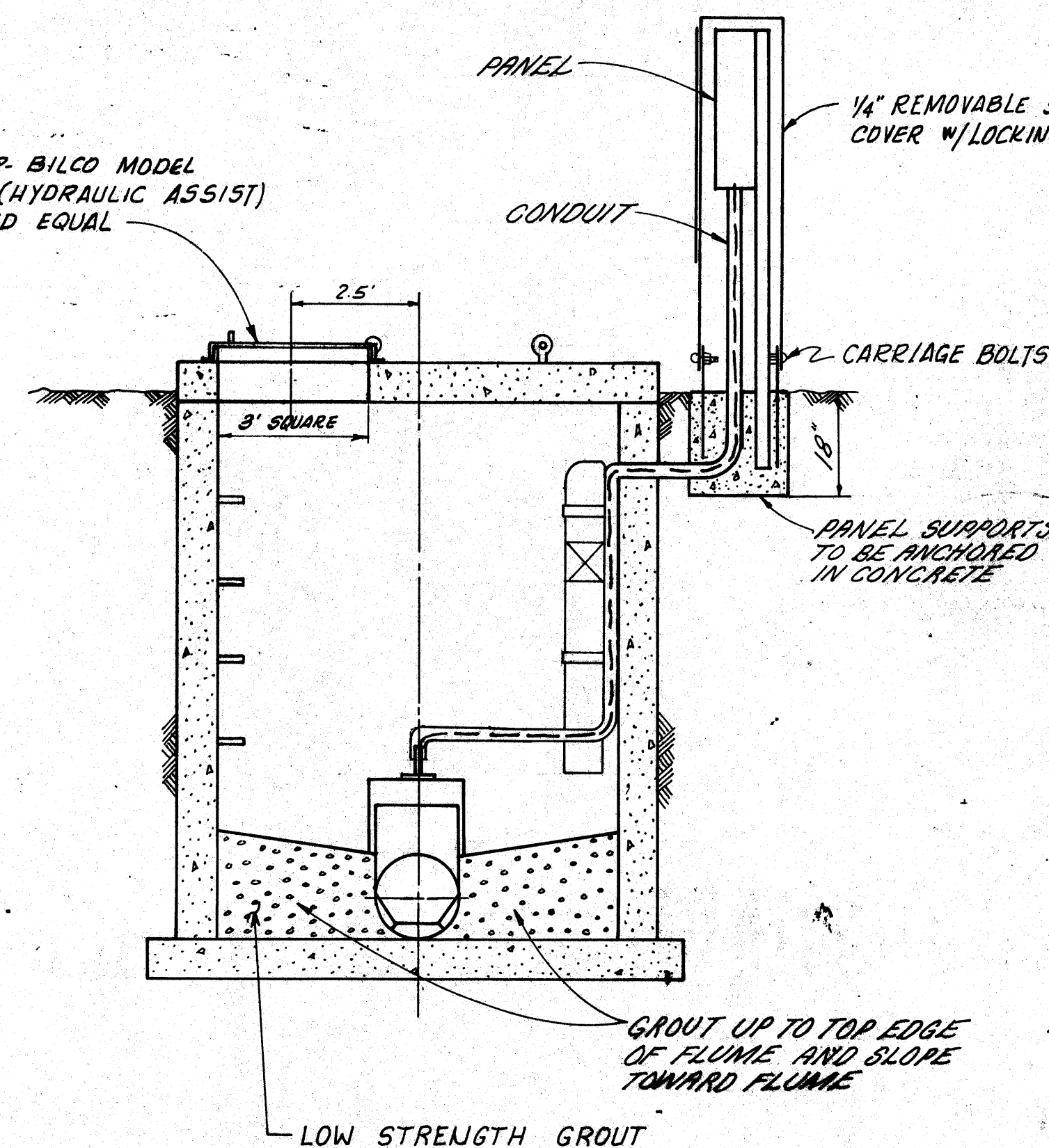
DETAIL "B"
GENERAL DIMENSIONS FOR "ACCUA-FLO"
PALMER BOWLUS FLUME INSERT



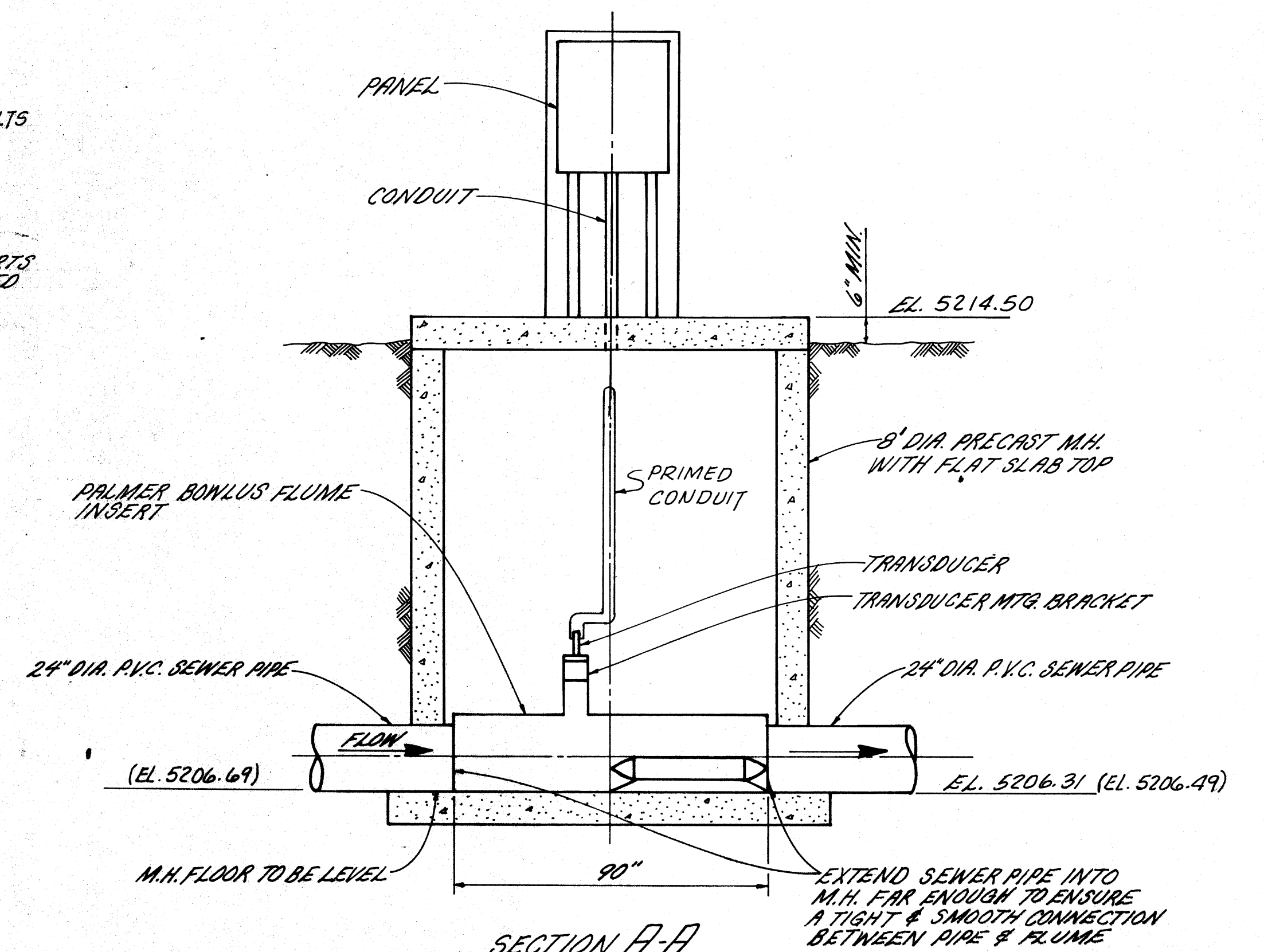
SECTION A-A

NOTE:
ALL EXPOSED METAL PARTS ARE
TO BE PRIMED AND PAINTED.

DETAIL "A"
MEASUREMENT MANHOLE FOR 15" DIA. SEWER LINE
(8' DIA. MANHOLE)



SECTION B-B



SECTION A-A

DETAIL "C"
MEASUREMENT MANHOLE FOR 24" DIA. SEWER LINE
(ALTERNATE)

AS BUILT

SCALE NO SCALE	FILE NO. 80 NEW MEXICO	OUTFALL SEWER LINE RIO RANCHO ESTATES SEWER PLANS	SHEET NO. 6
-------------------	---------------------------	---	----------------

REVISED 2-23-80 J.D.R.