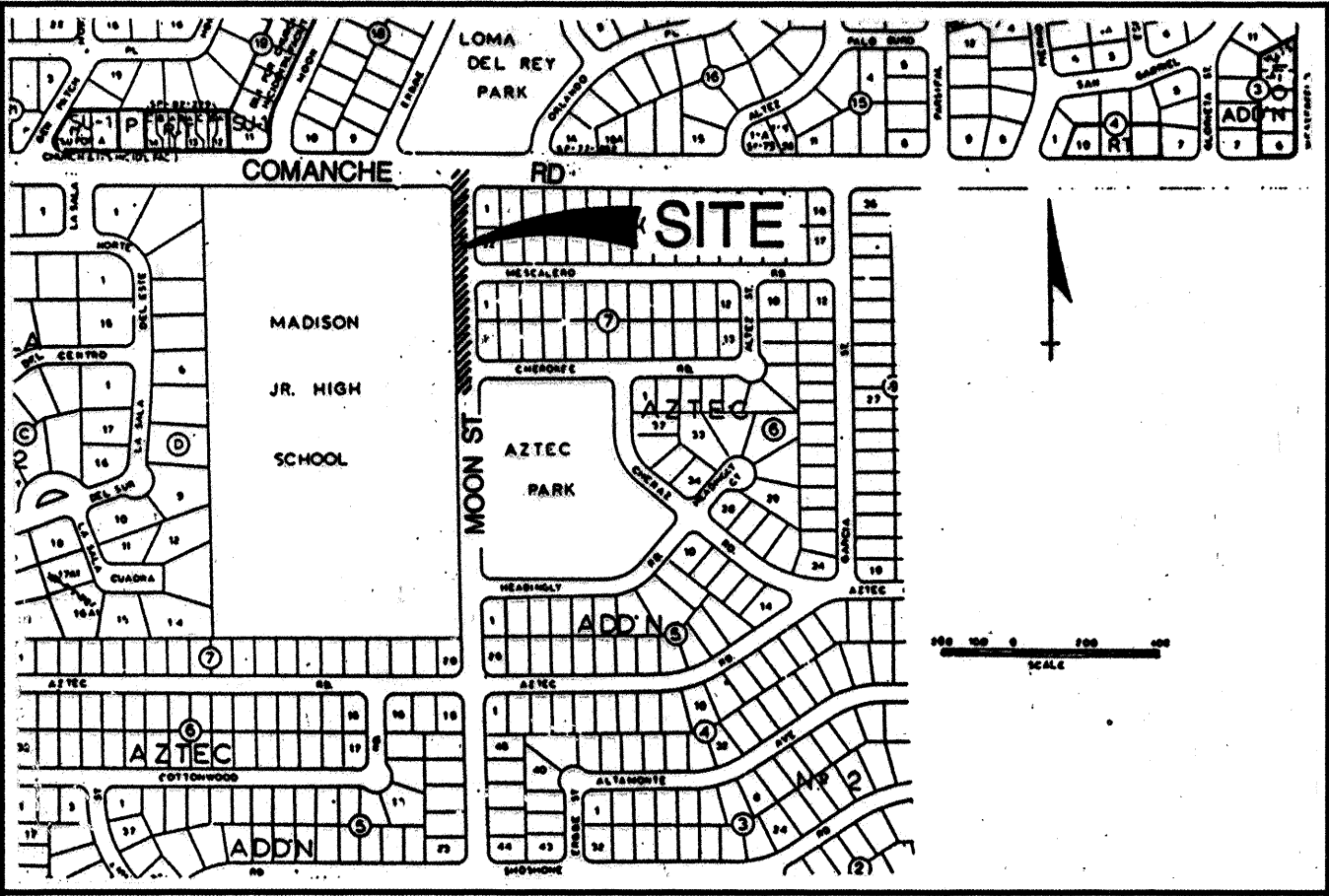


MADISON MIDDLE SCHOOL
MOON AND COMANCHE BLVD. N.E.

NEW 36" RCP CLASS III STORMDRAIN LINE

⚠
RECORD DRAWING

INDEX OF DRAWINGS		
SHEET NO.	SHEET	TITLE
3 of 12	TITLE SHEET, INDEX OF DRAWINGS, VICINITY MAP AND NOTICE TO CONTRACTOR NOTES	
4 of 12	NEW STORM DRAIN LINE - STA. 1+00.00 THRU STA. 3+30.00	
5 of 12	NEW STORM DRAIN LINE - STA. 3+30.00 THRU STA. 6+60.00	
6 of 12	TRAFFIC CONTROL PLAN	



VICINITY MAP ZONE MAP: G-20-Z

NOTICE TO CONTRACTOR

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990, FOR VERIFICATION OF LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- IF ANY UTILITY LINES, PIPELINES OR UNGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK, THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- THE CONTRACTOR WILL NOT WILLFULLY INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY.

(NOTES CONTINUE ON SHEET C2 OF 4)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4451.900394

APPROVAL OF AS BUILT DRAWING
CHIEF CONSTRUCTION ENGINEER
Kenneth B. Smith
DATE 5-27-94

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE



CHAVEZ-GRIEVES / CONSULTING ENGINEERS, INC.
4800-C Montgomery Blvd. N.E.
Albuquerque, New Mexico 87109
(505) 881-7376

PROJECT NO.
4451.90

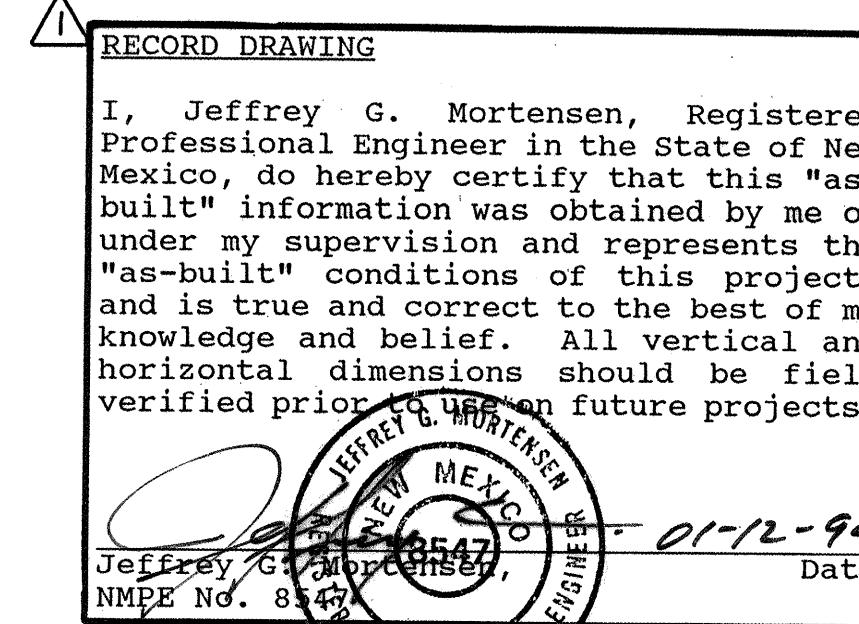
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE
SHEET 3 OF 12

NOTICE TO CONTRACTOR (CONTINUED)

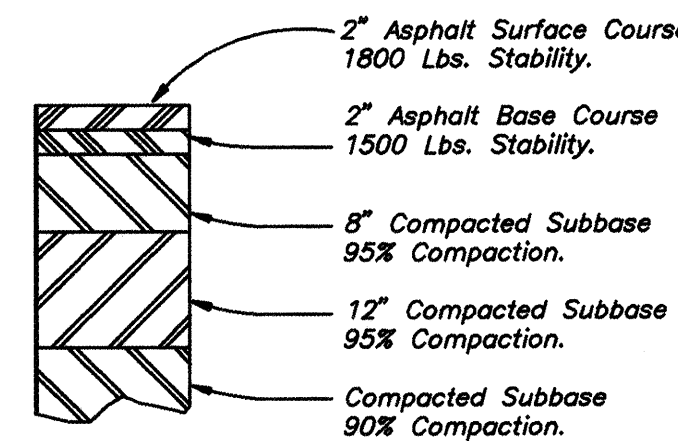
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- WHERE APPLICABLE THE CONTRACTOR SHALL USE STANDARDS AND DETAILS REQUIRED BY UTILITY AGENCIES HAVING JURISDICTION IN LIEU OF THOSE SHOWN ON THE PLANS.
- WHEN REMOVAL OF EXISTING CURB AND GUTTER OF SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ADEQUATE SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT, CURBS AND GUTTERS, VALLEY GUTTERS AND CONCRETE FILLETS IN ACCORDANCE WITH THE APPROPRIATE C.O.A. STANDARD DRAWING.
- CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- DELAYS DUE TO UTILITY RELOCATIONS: THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR DELAYS, INCONVENIENCES OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCES FROM SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM, RESULTING FROM HIS NEGLIGENCE, AS DETERMINED BY THE PROJECT MANAGER.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



RECORD DRAWING



ARTERIAL STREET PAVEMENT SECTION
MATCH EXISTING SECTION-PER AS BUILTS N.T.S.

ABBREVIATIONS

TC	Top Of Curb/Concrete
FL	Flowline
TA	Top Of Asphalt
RT	Right
LT	Left
R	Radius
EL	Elevation
PL	Property Line
B	Back
H.G.L.	Hydraulic Grade Line.
(100-YR)	
TG	Top Of Grate

(See Legend For Other Other Abbreviations)

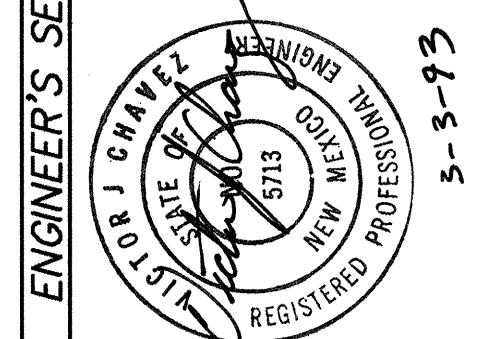
NOTE: ALL ITEMS SHOWN ON LEGEND ARE EXISTING UNLESS OTHERWISE NOTED.

LEGEND

	TL	Traffic Light
	Δ FH	Fire Hydrant
	W	Water/Gas/Valve
	⊙	Power Pole
	DI	Drop Inlet
	■	Drop Inlet-NEW
	○	Manhole
	●	Manhole-NEW
	--- SAS ---	Sanitary Sewer Line
	--- SD ---	Storm Sewer Line
	--- SD ---	Storm Sewer-NEW
	--- W ---	Water Line
	--- G ---	Gas Line
	--- x ---	Fence
	---	Property Line
	==	Curb & Gutter
	== S/W ==	Conc. Pad/Sidewalk
	...	Asphalt/Concrete Removal
	== S/W ==	Curb & Gutter/Sidewalk-NEW
	→	Flow Direction

KEYED NOTES

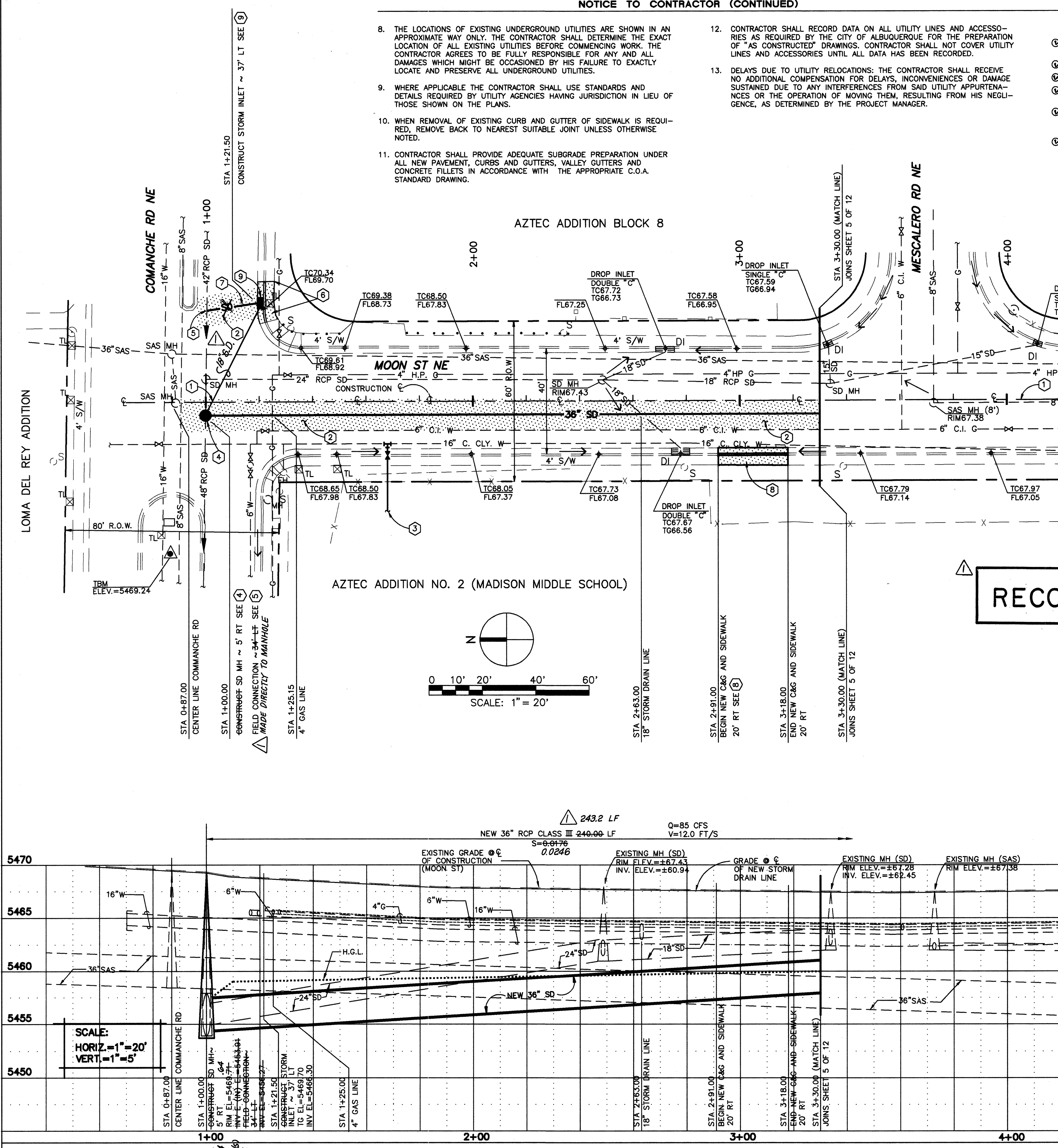
- PROJECT BASE LINE-CENTER LINE OF ROADWAY CONSTRUCTION RUNS PARALLEL TO THIS CENTER LINE.
- SAWCUT / REMOVE AND REPLACE 12' WIDE STRIP OF ASPHALT IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2465 AND REPLACE ANY REMAINING STRIP OF EXISTING ASPHALT LESS THAN 6' WIDE. (SEE DETAIL THIS SHEET FOR NEW ASPHALT PAVING)
- FOR NEW WATERLINE CONSTRUCTION SEE WORKORDER DRAWING 4551.91 PREPARED BY JEFF MORTENSEN AND ASSOC.
- CONSTRUCT NEW 6" I.D. STORM DRAIN MANHOLE TYPE "E" IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2102.
- FIELD PIPE CONNECTION. PIPE CONNECTION= OUTSIDE DIAMETER PLUS 2" MAX. MEASURED AT SPRING LINE OF PIPE. SEAL WITH NON-SHRINK GROUT AND SUPPORT PIPE WITH 12" OF CONCRETE.
- REMOVE 15 LF± EXISTING CURB & GUTTER AND 4' WIDE SIDEWALK TO NEAREST JOINT FOR STORM INLET CONSTRUCTION.
- CONSTRUCT 20 LF OF 18" RCP-CLASS III STORM DRAIN LINE.
- REMOVE EXISTING ASPHALT 1' BEYOND EXISTING DRIVE PAD AND REMOVE 27 LF± CONCRETE DRIVE PAD TO NEAREST JOINT. CONSTRUCT NEW STANDARD C&G IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2415. CONSTRUCT NEW STANDARD SIDEWALK IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2430.
- CONSTRUCT STORM INLET TYPE "A" IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2202.

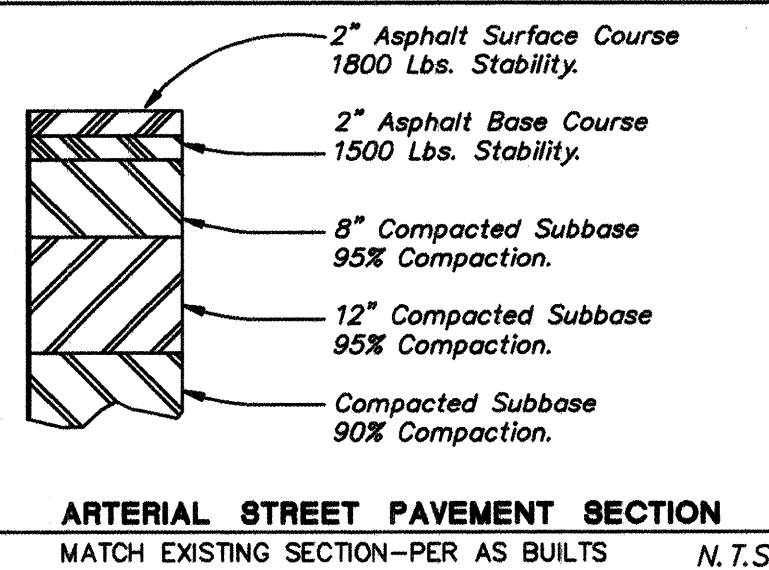


NO.	DATE	REVISIONS	DESIGN
1	11/93		
2	11/93		
3	11/93		
4	11/93		
5	11/93		
6	11/93		
7	11/93		
8	11/93		
9	11/93		
10	11/93		
11	11/93		
12	11/93		
13	11/93		
14	11/93		
15	11/93		

CHAVEZ-GRIEVES / CONSULTING ENGINEERS, INC.
4600-C Montgomery Blvd. N.E.
Albuquerque, New Mexico 87109
(505) 881-7376

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: MADISON MIDDLE SCHOOL NEW STORM DRAIN LINE - MOON ST NE STA. 1+00.00 THRU STA 3+30.00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-11-93	Water	NIA RWE	3-10-93
Trans. Dev.	<i>[Signature]</i>	3-10-93	Wastewater	NIA RWE	3-10-93
Hydrology	<i>[Signature]</i>	3-10-93			
Const. Coord.					
DRAWING NO.	4451.90	MAP NO.	G 20 Z	SHEET	4 OF 12

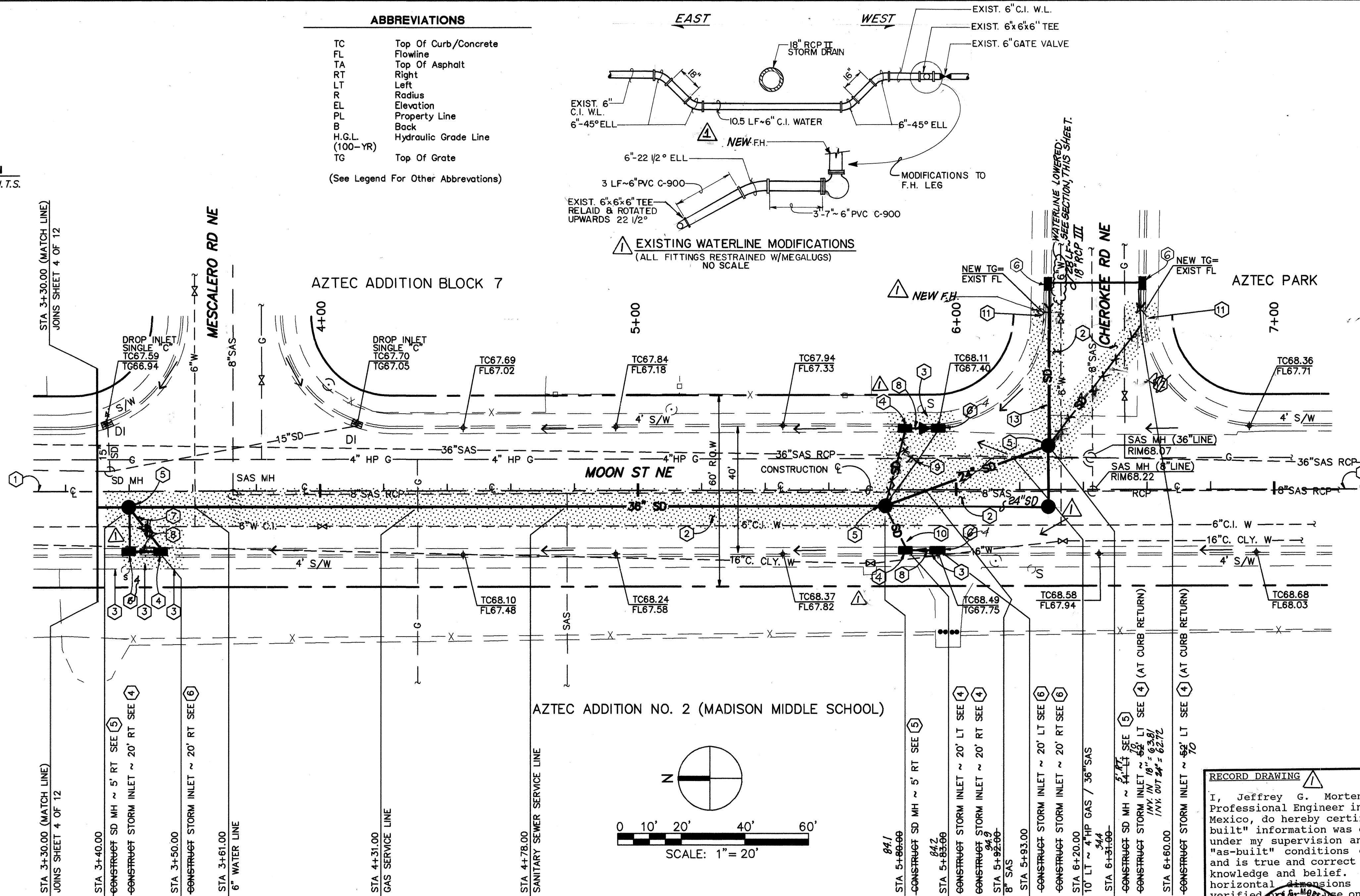




ABBREVIATIONS

TC	Top Of Curb/Concrete
FL	Flowline
TA	Top Of Asphalt
RT	Right
LT	Left
R	Radius
EL	Elevation
PL	Property Line
B	Back
H.G.L.	Hydraulic Grade Line
(100-YR)	
TG	Top Of Grate

(See Legend For Other Abbreviations)



RECORD DRAWING

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to construction on future projects.

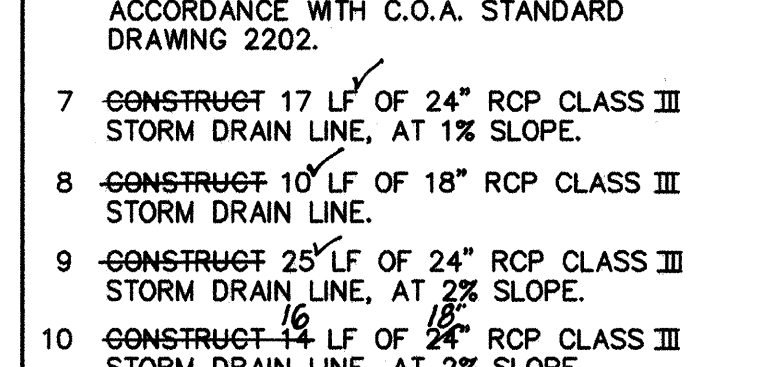
JOSEPH J. MORTENSEN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
NO. 24564
DATE 01-12-94

NOTE: ALL ITEMS SHOWN ON LEGEND ARE EXISTING UNLESS OTHERWISE NOTED.

LEGEND

⊗ FH	Fire Hydrant
⊗	Water/Gas/Valve
⊗	Power Pole
⊗	Drop Inlet
⊗	Drop Inlet-NEW
⊗	Manhole
⊗	Manhole-NEW
---	Sanitary Sewer Line
---	Storm Sewer Line
---	Storm Sewer-NEW
---	Water Line
---	Gas Line
---	Fence
---	Property Line
---	Curb & Gutter
---	Conc. Pad/Sidewalk
---	Asphalt/Concrete Removal & Replace
→	Flow Direction

- KEYED NOTES**
- PROJECT BASE LINE-CENTER LINE OF ROADWAY CONSTRUCTION RUNS PARALLEL TO THIS CENTER LINE.
 - SAWCUT / REMOVE AND REPLACE 16± WIDE STRIP OF ASPHALT IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2485 AND REPLACE ANY REMAINING STRIP OF EXISTING ASPHALT LESS THAN 6' WIDE.
 - REMOVE 22 LF± EXIST. CURB & GUTTER FOR STORM INLET CONSTRUCTION. AND 22 LF± OF 4' WIDE SIDEWALK TO NEAREST JOINT. DO NOT ATTEMPT TO SALVAGE PORTION OF CONCRETE BETWEEN NEW STORM INLETS REMOVE AND REPLACE ALL.
 - CONSTRUCT STORM INLET TYPE DOUBLE "C" ACCORDANCE WITH C.O.A. STANDARD DRAWING 2205.
 - CONSTRUCT NEW 6" I.D. STORM DRAIN MANHOLE TYPE "E" IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2102.
 - CONSTRUCT STORM INLET TYPE "A" IN ACCORDANCE WITH C.O.A. STANDARD DRAWING 2202.
 - CONSTRUCT 17 LF OF 24" RCP CLASS III STORM DRAIN LINE, AT 1% SLOPE.
 - CONSTRUCT 10 LF OF 18" RCP CLASS III STORM DRAIN LINE.
 - CONSTRUCT 25 LF OF 24" RCP CLASS III STORM DRAIN LINE, AT 2% SLOPE.
 - CONSTRUCT 14 LF OF 24" RCP CLASS III STORM DRAIN LINE, AT 2% SLOPE.
 - REMOVE 6' LF± EXISTING CURB & GUTTER AND 4' WIDE SIDEWALK TO NEAREST JOINT FOR STORM INLET CONSTRUCTION.
 - CONSTRUCT 48 LF OF 18" RCP CLASS III STORM DRAIN LINE, AT 1% SLOPE. Q=13 CFS.
 - CONSTRUCT 70 LF OF 24" RCP CLASS III STORM DRAIN LINE, AT 1% SLOPE. Q=13 CFS.

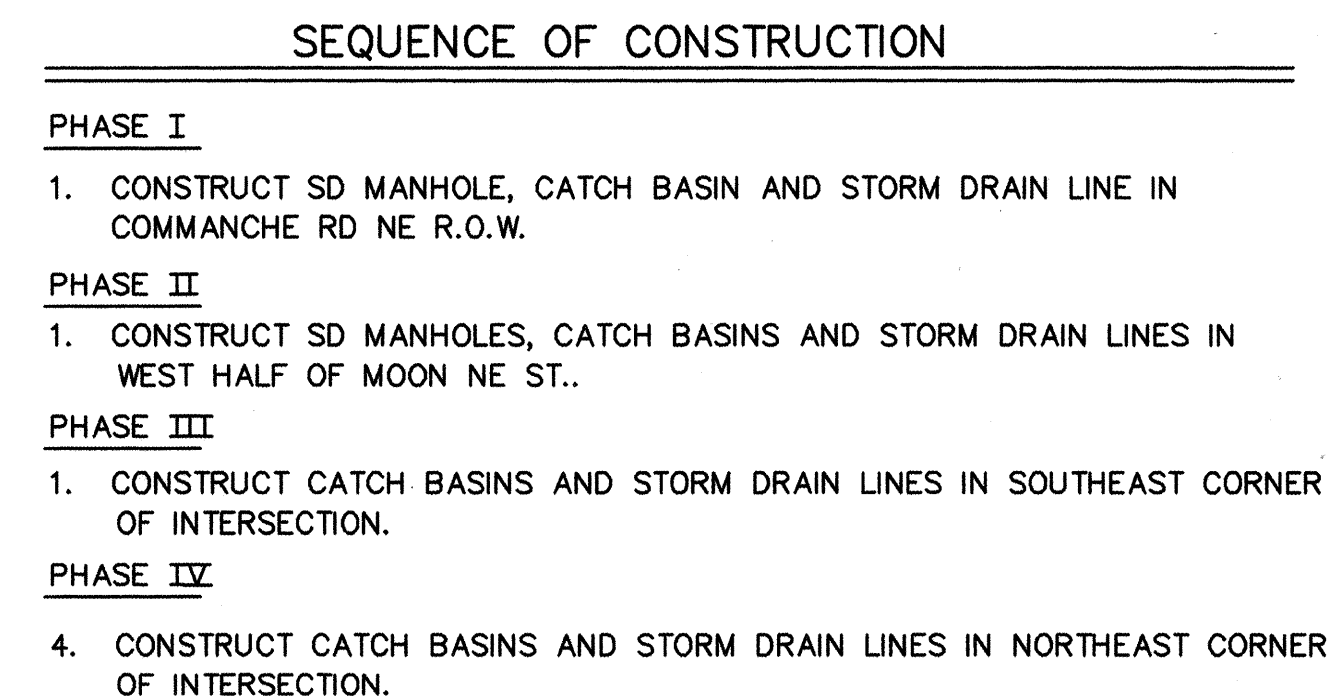


- CONSTRUCT 48 LF OF 18" RCP CLASS III STORM DRAIN LINE, AT 1% SLOPE. Q=13 CFS.
- CONSTRUCT 70 LF OF 24" RCP CLASS III STORM DRAIN LINE, AT 1% SLOPE. Q=13 CFS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: MADISON MIDDLE SCHOOL NEW STORM DRAIN LINE - MOON ST NE STA. 3+30.00 THRU STA. 6+60.00			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. Chair	<i>[Signature]</i>	3-11-93	Water
Trans. Dev.	<i>[Signature]</i>	3-10-93	Wastewater
Hydrology	<i>[Signature]</i>	3-10-93	
Const. Coord.			
DRAWING NO.	4451.90	MAP NO.	G-20-Z
SHEET	5	OF	12

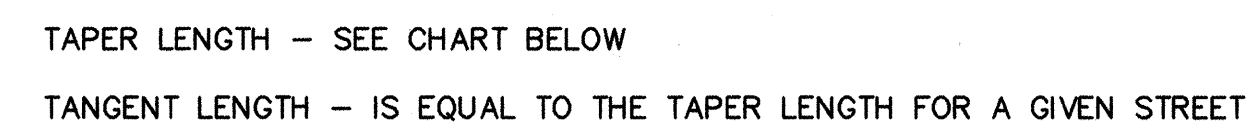


WORK AREA

- **TRAFFIC SIGN (SEE THIS SHEET FOR DESIGNATION)**
 - **BARRICADE – TYPE I, TYPE II, OR BARREL**
- **BARRICADE – TYPE III**
- x** **VERTICAL PANEL**
- **WARNING SIGN**
- L** **DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET**
- **FLAGMAN POSITION**
- S** **SPACING BETWEEN BARRICADES – A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET**
- **ACCESS SIGN. "MOON ST. AT COMMANCHE RD. CLOSED. ACCESS TO MADISON MIDDLE SCHOOL."**

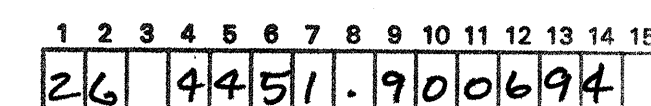
TAPER LENGTH – SEE CHART BELOW

TANGENT LENGTH – IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET



SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9

THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A TRAVEL PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.



APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.G. Ambady</i>	<i>3-11-93</i>	Water	<i>N/A RWK</i>	<i>3-4-93</i>
Trans. Dev.	<i>N/A RWK</i>	<i>3-10-93</i>	Wastewater	<i>N/A RWK</i>	<i>3-4-93</i>
Hydrology	<i>N/A</i>	<i>3-10-93</i>			
Const. Coord.					

DRAWING NO.	4451.90	MAP NO.	G-20-Z	SHEET	6	OF	12
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