

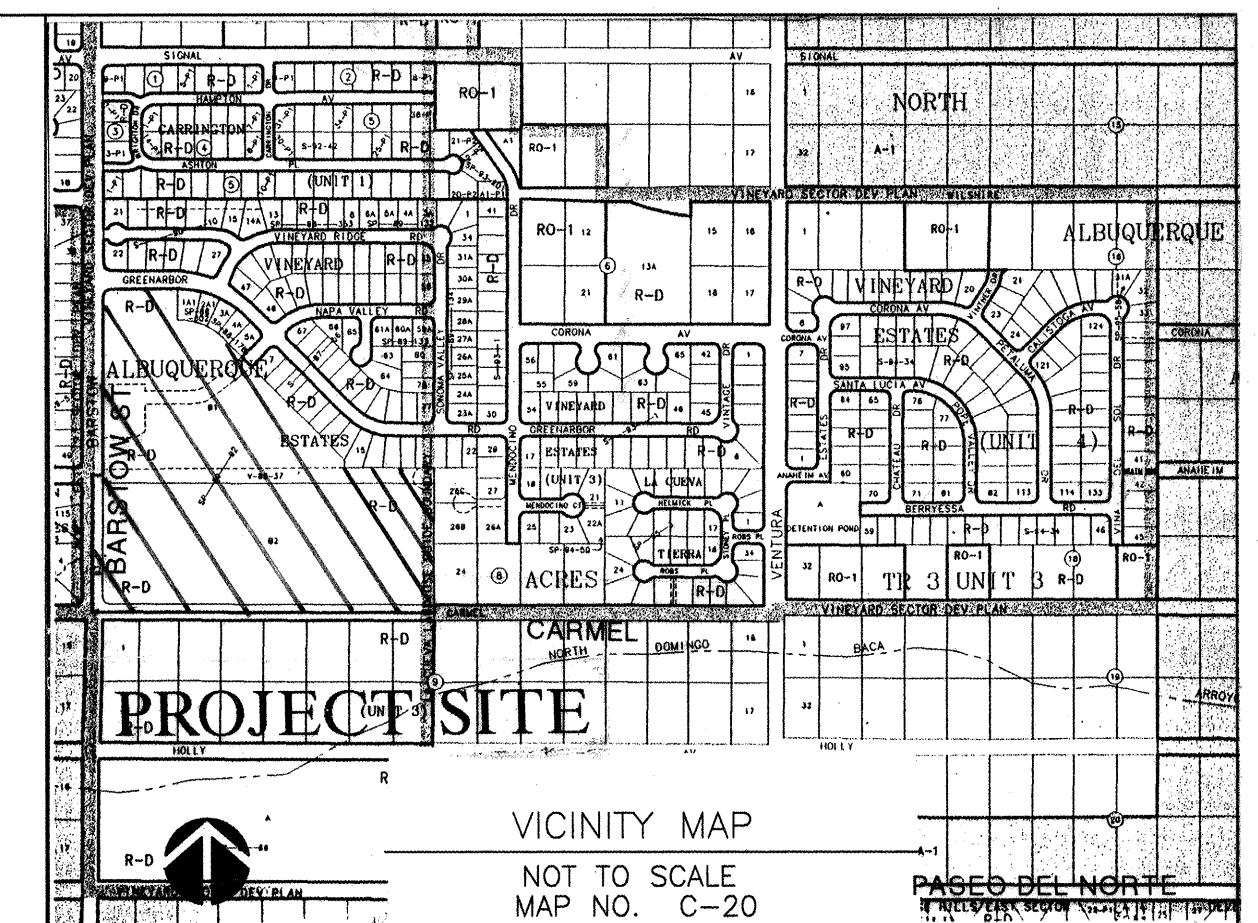
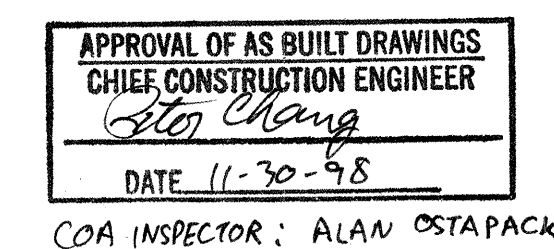
CONSTRUCTION PLANS FOR NORTHEAST HEIGHTS MIDDLE SCHOOL

PUBLIC PAVING, WATER LINE, AND STORM DRAIN IMPROVEMENTS

BARSTOW ST. & ANAHEIM AVE. NE ALBUQUERQUE, NEW MEXICO

INDEX

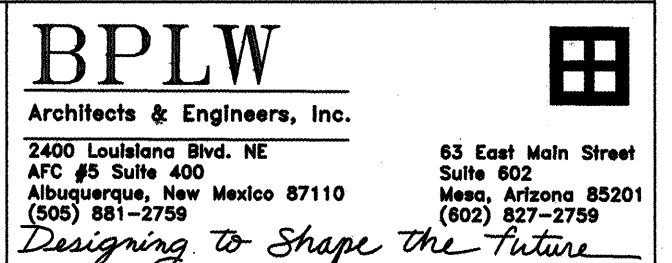
SHEET NUMBER	DESCRIPTION
—	TITLE SHEET, NOTES & VICINITY MAP
0A & 0B	PLAT
1	OVERALL PAVING PLAN AND SECTIONS
2	BARSTOW PAVING PLAN AND PROFILE —LINE A
3	BARSTOW PAVING PLAN AND PROFILE —LINE A(CONTINUED)
4	GREENARBOR PAVING PLAN
5	OVERALL UTILITY PLAN
6	WATERLINE PLAN AND PROFILE —LINE A
7	WATERLINE PLAN AND PROFILE —LINE B
8	WATERLINE PLAN AND PROFILE —LINE C
9	OVERALL STORM PLAN
10	OVERALL STORM DEMOLITION PLAN
11	NEW POND GRADING PLAN
12	STORM DRAIN PLAN AND PROFILE —LINE A
13	STORM DRAIN PLAN AND PROFILE —LINE B
14	BARSTOW STORM DRAIN PLAN AND PROFILE —LINE C
15	BARSTOW STORM DRAIN PLAN AND PROFILE —LINE D
16	ENERGY DISSIPATOR
17	ENERGY DISSIPATOR DETAILS
18	ENERGY DISSIPATOR DETAILS
19	TYPICAL ROAD SECTIONS
19-A,B,C & D	DETAILS FOR FLASHING SIGNALS



NOTICE TO CONTRACTORS

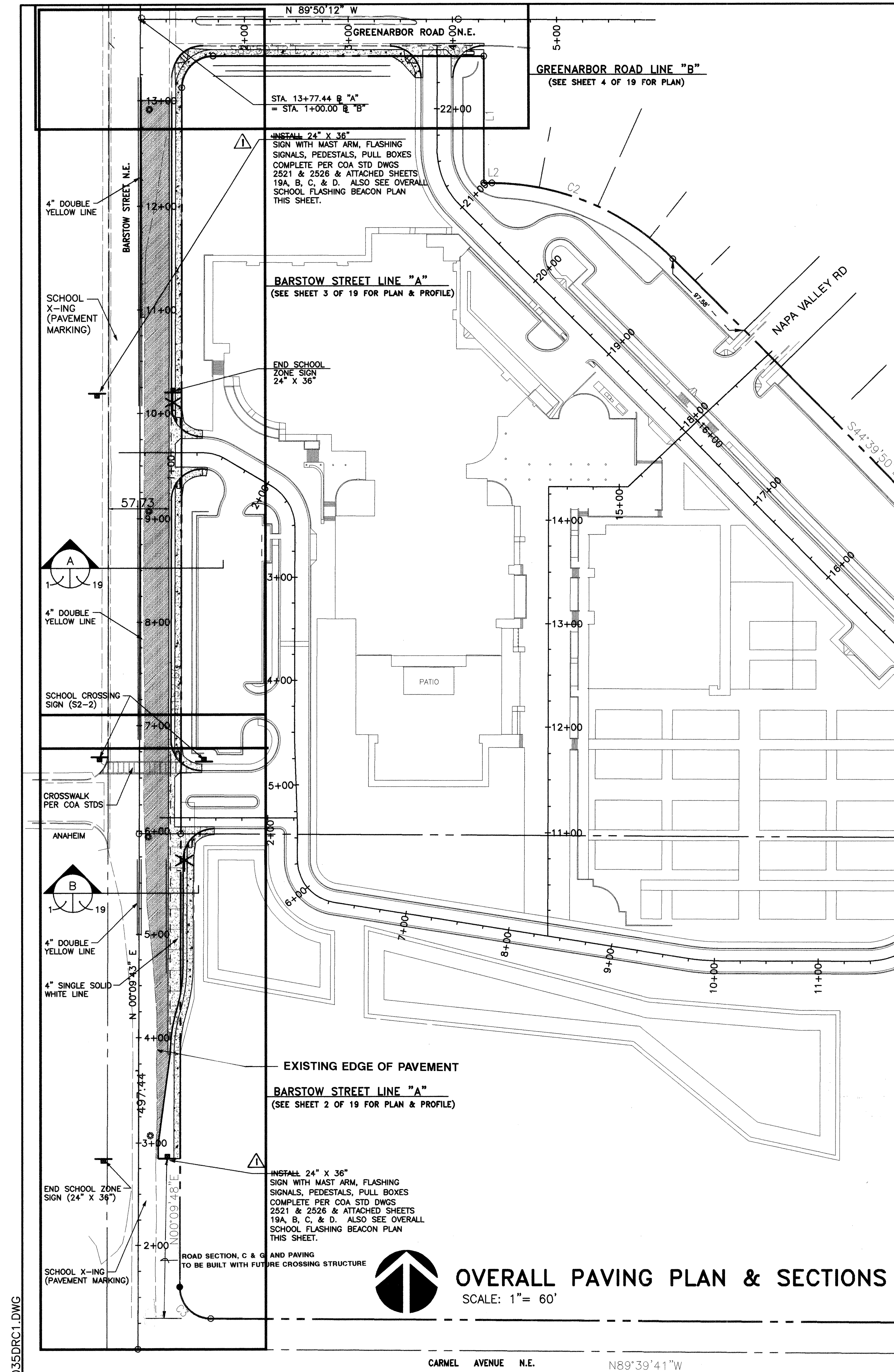
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED THROUGH UPDATE #6.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. 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.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY MONUMENT THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOUR CONSTRUCTION.
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 SPECIFIED 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 DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ARCHITECTS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		<i>Billie G. Bailey</i>		6/4/96	
		Transportation		<i>John J. Jones</i>		6-3-96	
		Water/Wastewater		<i>John J. Jones</i>		5-17-96	
		Hydrology		<i>John J. Jones</i>		5-21-96	
		Parks		<i>John J. Jones</i>		5-21-96	
Constr. Mngmt.							
City Project No.		541481		Sheet		1 of 19	

DRB CASE #95-191



- NOTE:**
- SEE SHEETS 19A,B,C, & D FOR DETAILS OF PULL BOXES FOUNDATIONS, CONTROLLERS & SIGNALS, ECT.
 - CONTRACTOR IS TO OBTAIN "INTERIM STANDARD SPECIFICATIONS FOR SIGNALIZATION CONSTRUCTION" (3RD DRAFT) FROM KEVIN BRODERICK @ COA TRANSPORTATION 768-2680
 - CONTRACTOR TO CONFIRM LOCATION OF ALL SIGNALS, PEDESTALS, CONTROLS, LIGHTS, SIGNAGE & STRIPING WITH ED TOLEDO @ COA TRAFFIC 857-8000

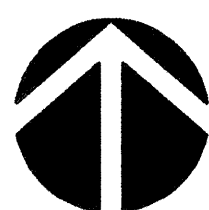
INSTALL MASTARM FOUNDATION & 25' OF MASTARM PER DETAILS (SHEETS 19A,B,C, & D)

INSTALL 70' OF 2" SCHEDULE 40 PVC CONDUIT

INSTALL S.P. FOUNDATION & CONTROLLER PER DETAILS (SHEETS 19A, B,C, & D)

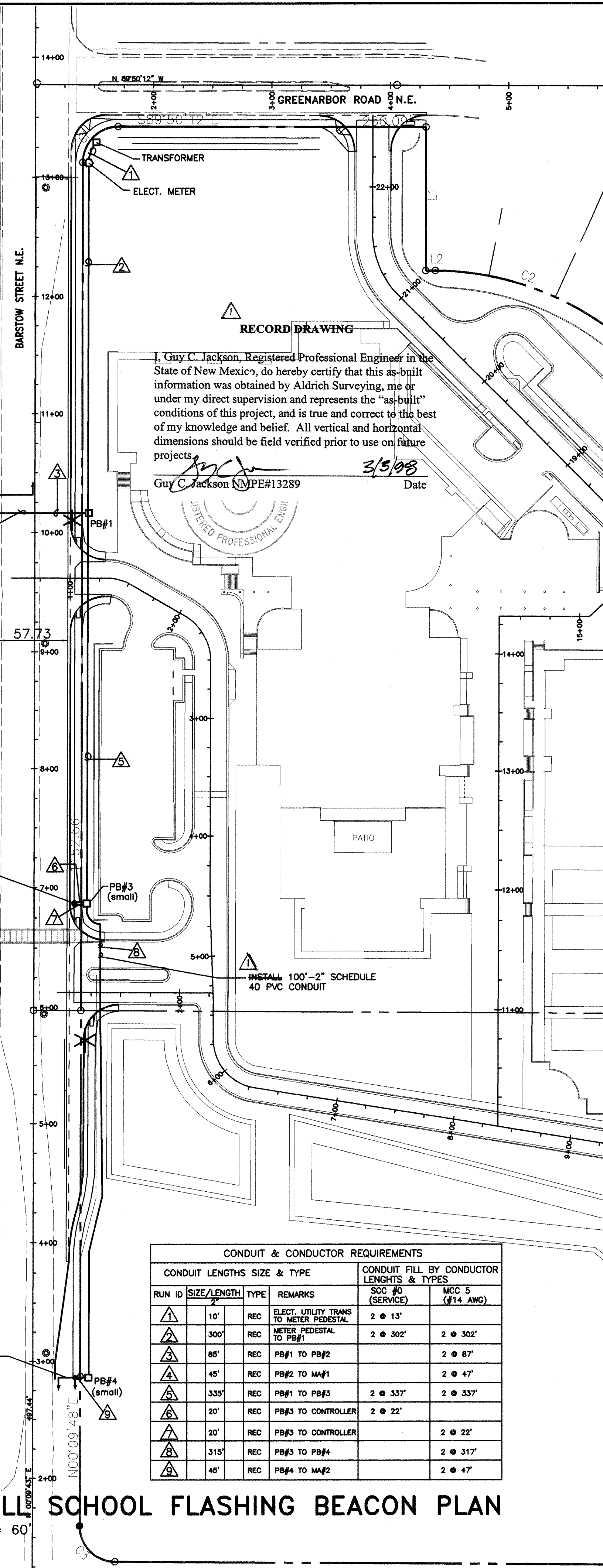
APPROVAL OF AS-BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 11-30-96

INSTALL MASTARM FOUNDATION & 25' MASTARM PER DETAILS (SHEETS 19A, B,C, & D)



OVERALL SCHOOL FLASHING BEACON PLAN

SCALE: 1" = 60'



CONDUIT & CONDUCTOR REQUIREMENTS					
CONDUIT LENGTHS SIZE & TYPE				CONDUIT FILL BY CONDUCTOR LENGTHS & TYPES	
RUN ID	SIZE/LENGTH	TYPE	REMARKS	SDC #0 (SERVICES)	MCC 5 (#14 AWG)
10'	REC	ELECT. UTILITY TRANS TO METER PEDESTAL	2 @ 13'		
300'	REC	METER PEDESTAL TO PB#1	2 @ 302'	2 @ 302'	
85'	REC	PB#1 TO PB#2	2 @ 87'		
45'	REC	PB#2 TO M#1	2 @ 47'		
335'	REC	PB#1 TO PB#3	2 @ 337'	2 @ 337'	
20'	REC	PB#3 TO CONTROLLER	2 @ 22'		
20'	REC	PB#3 TO CONTROLLER	2 @ 22'		
315'	REC	PB#3 TO PB#4	2 @ 317'		
45'	REC	PB#4 TO M#2	2 @ 47'		

GENERAL NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS & NOTIFY THE ENGINEER IMMEDIATELY OF ANY DESCRIPTIONS.
- ALL CURVE DATA & DIMENSIONS REFER TO FACE OF CURB AT FLOWLINE UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS & EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE INSPECTORS (CITY & PRIVATE) w/ A PROPOSED HYDRO STATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- REMOVAL OF THE EXISTING CURB & GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
- THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING PERMIT (SITE) CONTRACTOR FOR THE SEQUENCING OF ALL WORK (BOTH PRIVATE & PUBLIC).
- ALL STREET SIGNAGE TYPE & DIMENSIONS ARE TO BE INSTALLED IN ACCORDANCE WITH THE "UNIFORM TRAFFIC CODE DEVICES" - LATEST EDITION.
- PAVEMENT MARKING TO BE PLASTIC AS PER COA STANDARD.

LEGEND

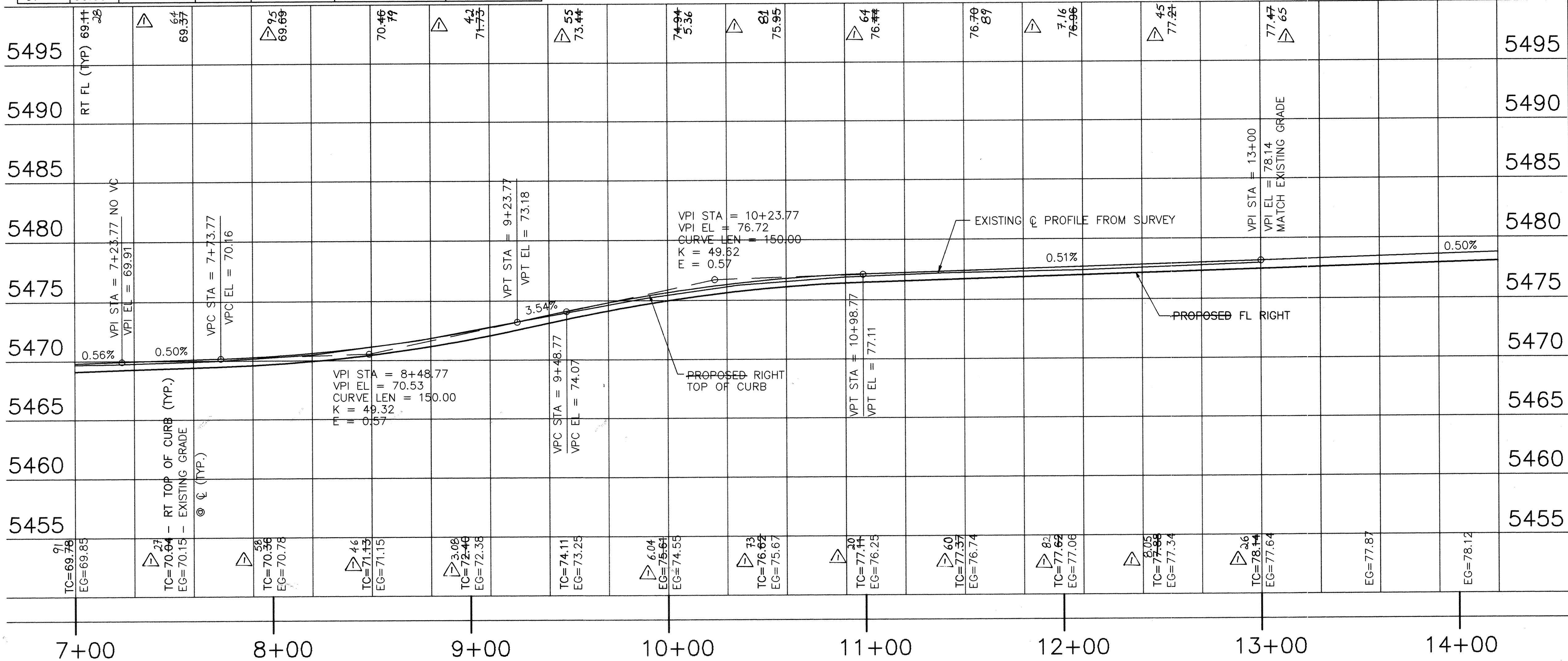
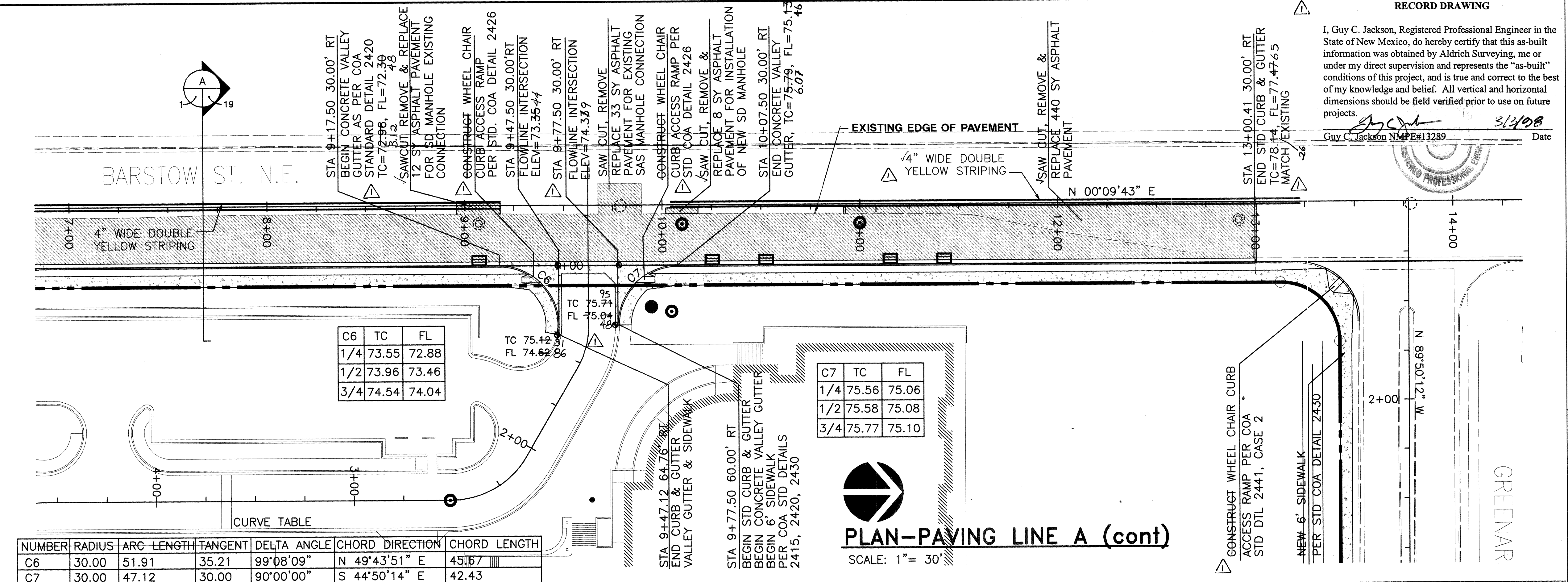
- NEW PAVEMENT
- PROPOSED STREET LIGHTS WITH PEDESTALS & 720'-2" SCHEDULE 40 PVC CONDUIT PER STD COA 2530
- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- PROPOSED 4" DBL CLEANOUT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
OVERALL PAVING PLAN & SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology					
Parks & Rec.					
DESIGN REVIEW COMMITTEE					
DRAWING NO.	541481	MAP NO.	C-20	SHEET	1A OF 19

035DRC3



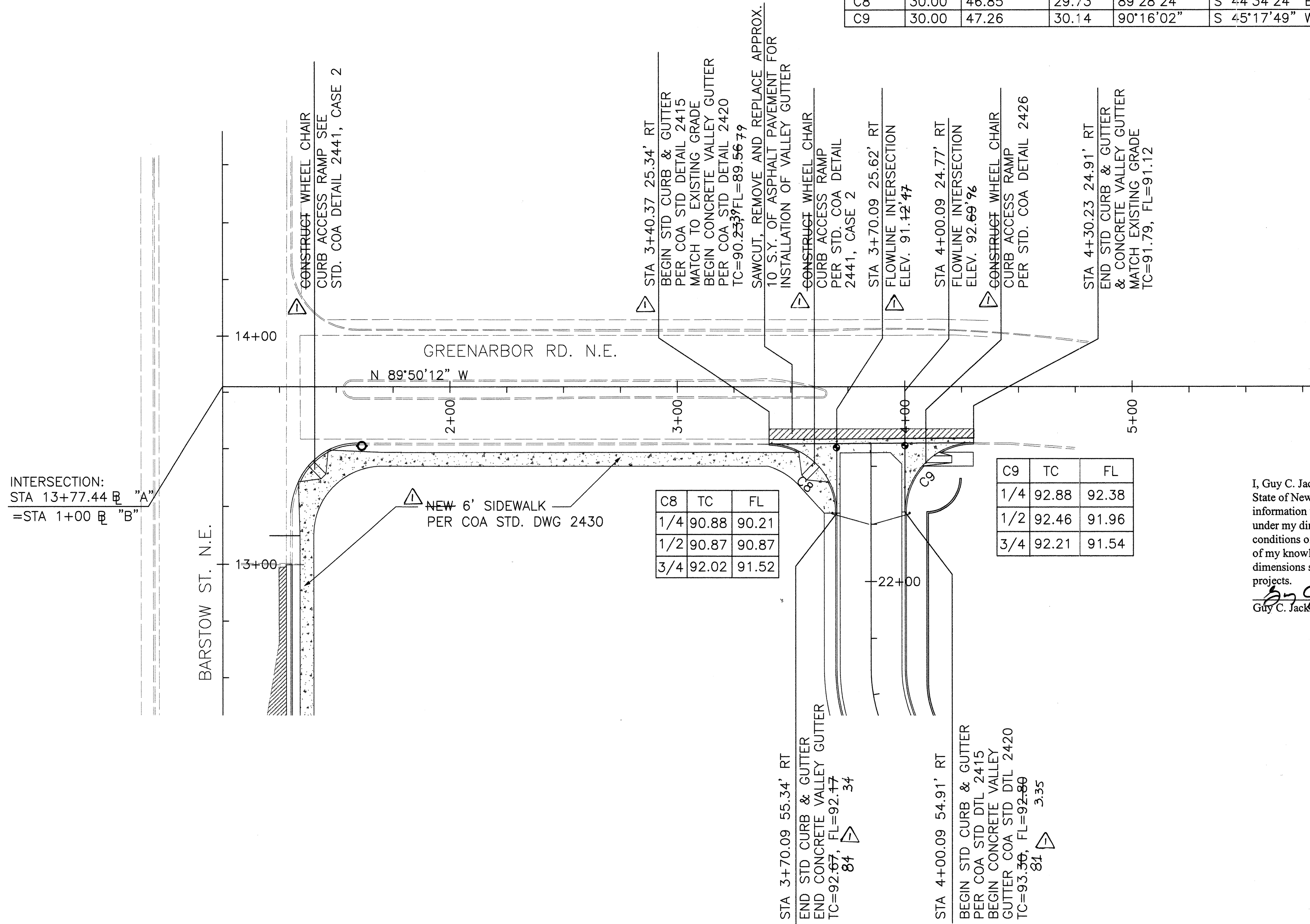
I, Guy C. Jackson, Registered Professional Engineer in the State of New Mexico, do hereby certify that this as-built information was obtained by Aldrich Surveying, me or under my direct supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge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

Guy C. Jackson NMPE#13289 Date 5/13/96

- ### GENERAL NOTES:
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS & NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
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 - WHEEL CHAIR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
 - PAVEMENT MARKINGS TO BE PLASTIC AS PER COA STANDARDS.

- ### LEGEND
- PROPOSED ASPHALT PAVING SEE SHEET 19
 - PROPOSED CONCRETE SIDEWALK OR VALLEY GUTTER
 - TC= TOP OF CURB
 - FL= FLOWLINE
 - EG= EXISTING GROUND
 - PROPOSED SD MANHOLE
 - PROPOSED SD INLET
 - EXISTING GATE VALVE
 - PROPOSED GATE VALVE
 - EXISTING FIRE HYDRANT
 - PROPOSED FIRE HYDRANT
 - PROPOSED PIV
 - EXISTING SAS MANHOLE
 - PROPOSED SAS MANHOLE
 - PROPOSED 4" DBL CLEANOUT
 - 18" W - EXISTING WATER MAIN
 - 10" W - PROPOSED WATER MAIN
 - 8" SAS - EXISTING SANITARY SEWER
 - 8" SAS - PROPOSED SANITARY SEWER
 - 6" SD - PROPOSED STORM DRAIN
 - G - PROPOSED GAS MAIN
 - EXISTING UTILITY ESMT
 - PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL BARSTOW PAVING PLAN & PROFILE LINE-A			
APPROVALS	DESIGNER	DATE	ENGINEER
DRC Chairman	Water		
Transportation	Waste Water		
Hydrology			
Parks & Rec.			
DRAWING NO.	MAP NO.	SHEET	OF
541481	C-20	3	19



RECORD DRAWING

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Guy C. Jackson
Guy C. Jackson NMPE#13289
3/3/08
Date

GENERAL NOTES:

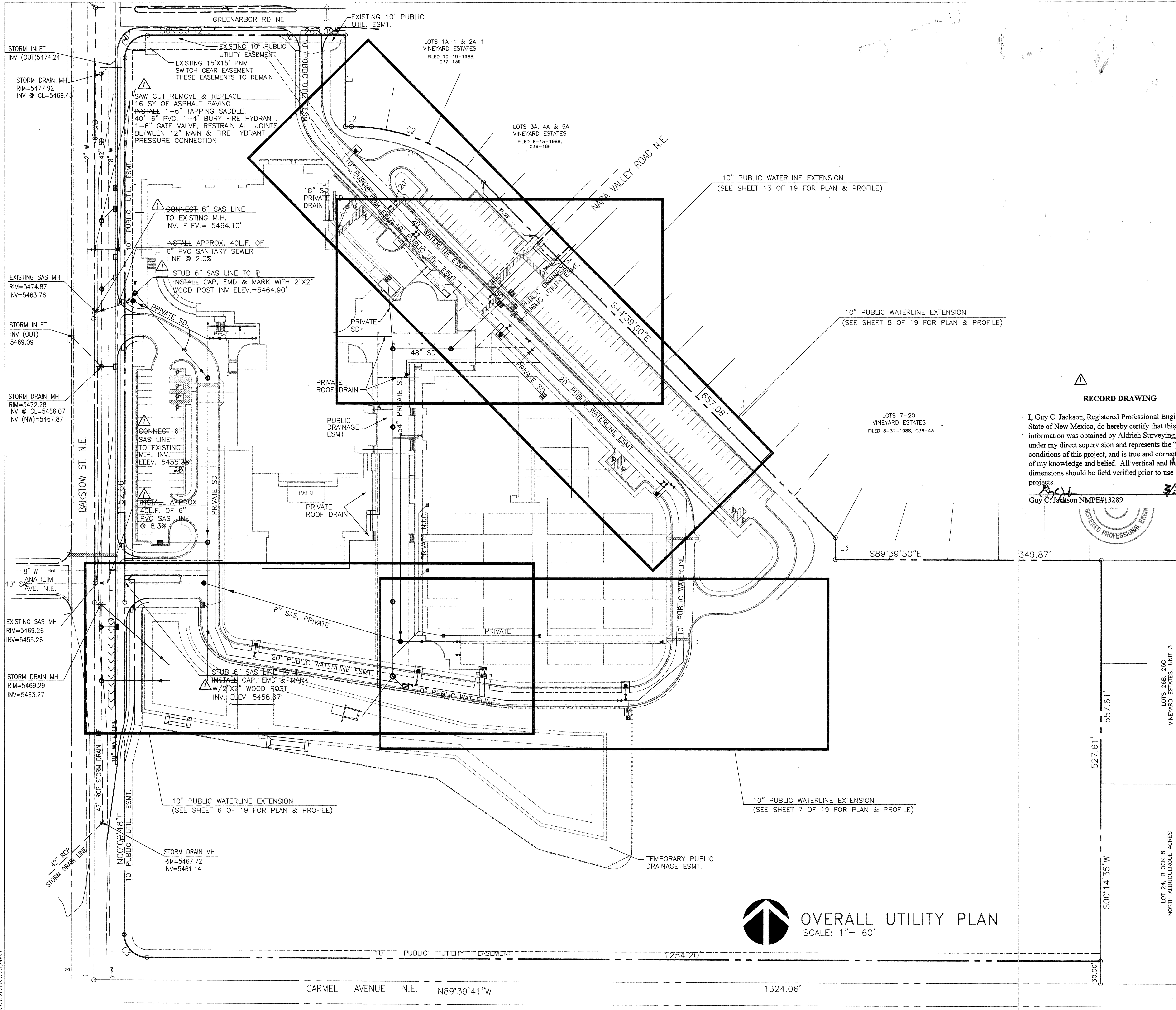
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- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

LEGEND

- PROPOSED ASPHALT PAVING
- PROPOSED CONCRETE SIDEWALK OR VALLEY GUTTER
- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- PROPOSED 4" DBL CLEANOUT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

BPLW		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL GREENARBOR PAVING PLAN					
APPROVALS	DESIGNER	APPROVALS	ENGINEER	DATE	
DRC Chairman	<i>[Signature]</i>	Water	<i>[Signature]</i>	5-24-96	
Transportation		Waste Water	<i>[Signature]</i>	5-24-96	
Hydrology					
Parks & Rec.					
DRAWING NO.	541481	MAP NO.	C-20	SHEET	4 OF 19

GREENARBOR PAVING PLAN
SCALE: 1"= 30'



GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS & NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
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9. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
10. NOTIFY COA WATER SYSTEMS FIVE (5) DAYS PRIOR TO VALVE SHUT OFF OR OPERATION. CONTRACTOR IS NOT TO OPERATE CITY VALVES.
11. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING PERMIT (SITE) CONTRACTOR FOR THE SEQUENCING OF ALL WORK (BOTH PRIVATE & PUBLIC).

RECORD DRAWING

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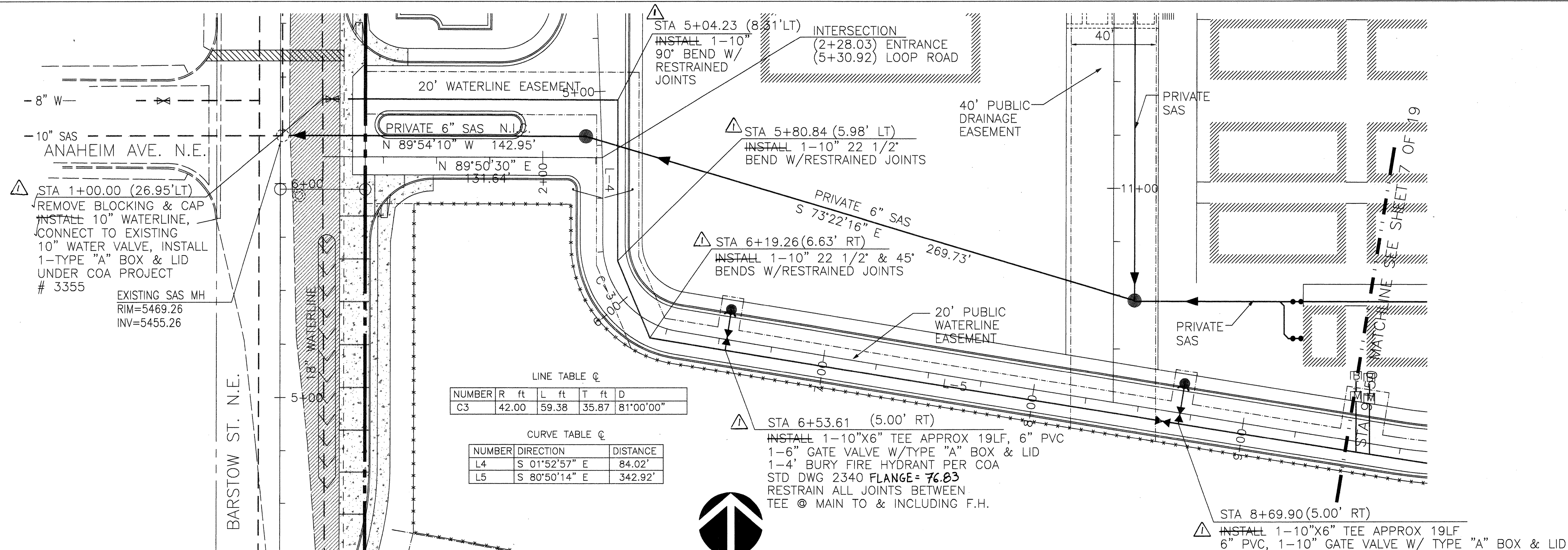
Guy C. Jackson NMPE#13289 3/3/98 Date



LEGEND

- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- PROPOSED 4" DBL CLEANOUT
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- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL OVERALL UTILITY PLAN			
APPROVALS	DESIGN	ENGINEER	DATE
DRC Chairman	Transportation	Water	5/96
Hydrology	Waste Water		
Parks & Rec.			
DRAWING NO.	MAP NO.	SHEET	OF
541481	C-20	5	18

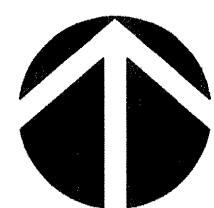


LINE TABLE @

NUMBER	R	ft	L	ft	T	ft	D
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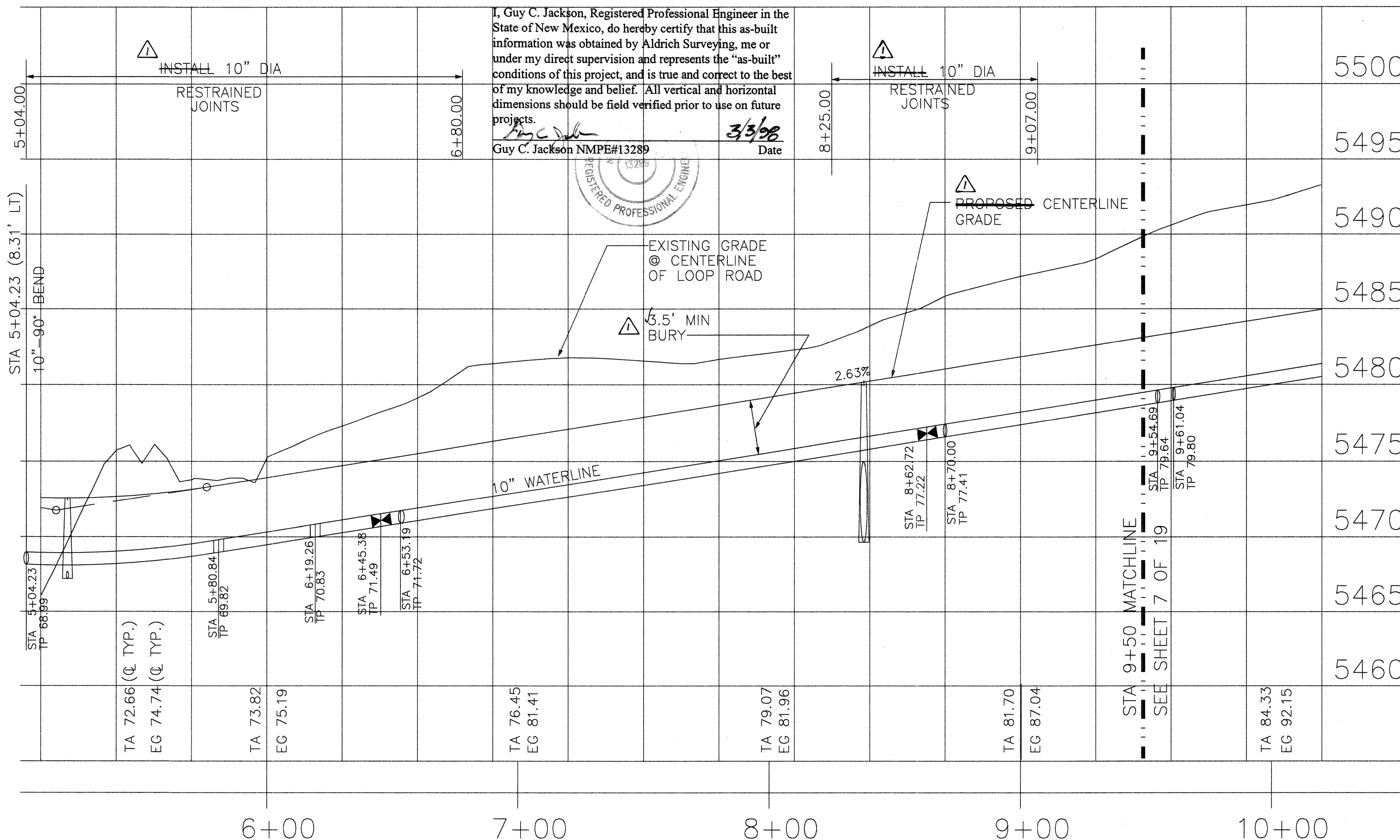
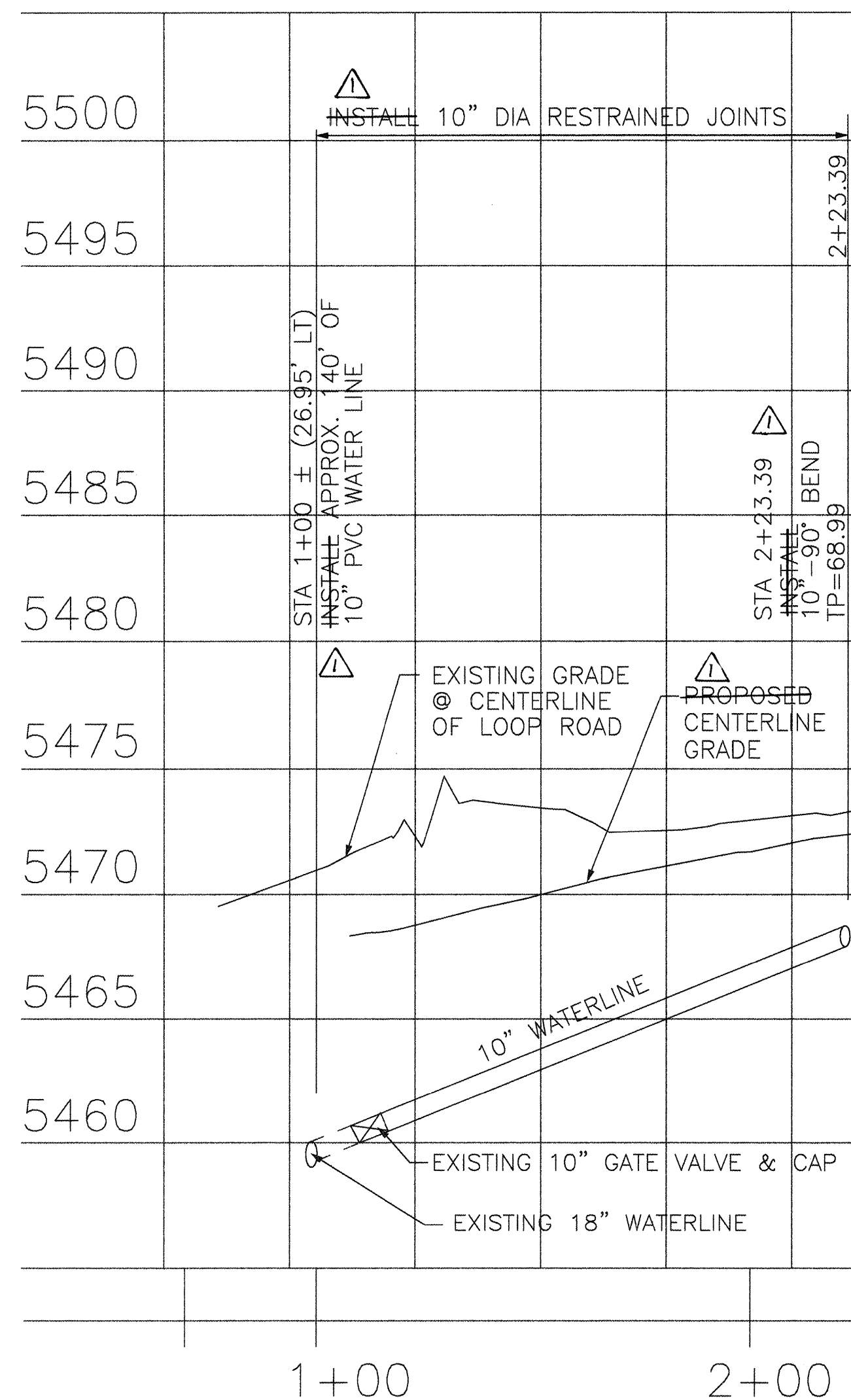
CURVE TABLE @

NUMBER	DIRECTION	DISTANCE
L4	S 01°52'57" E	84.02'
L5	S 80°50'14" E	342.92'



PLAN-WATERLINE A
SCALE: 1" = 30'
RECORD DRAWING

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Guy C. Jackson NMPE#13289
3/3/96
Date



PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'

GENERAL NOTES:

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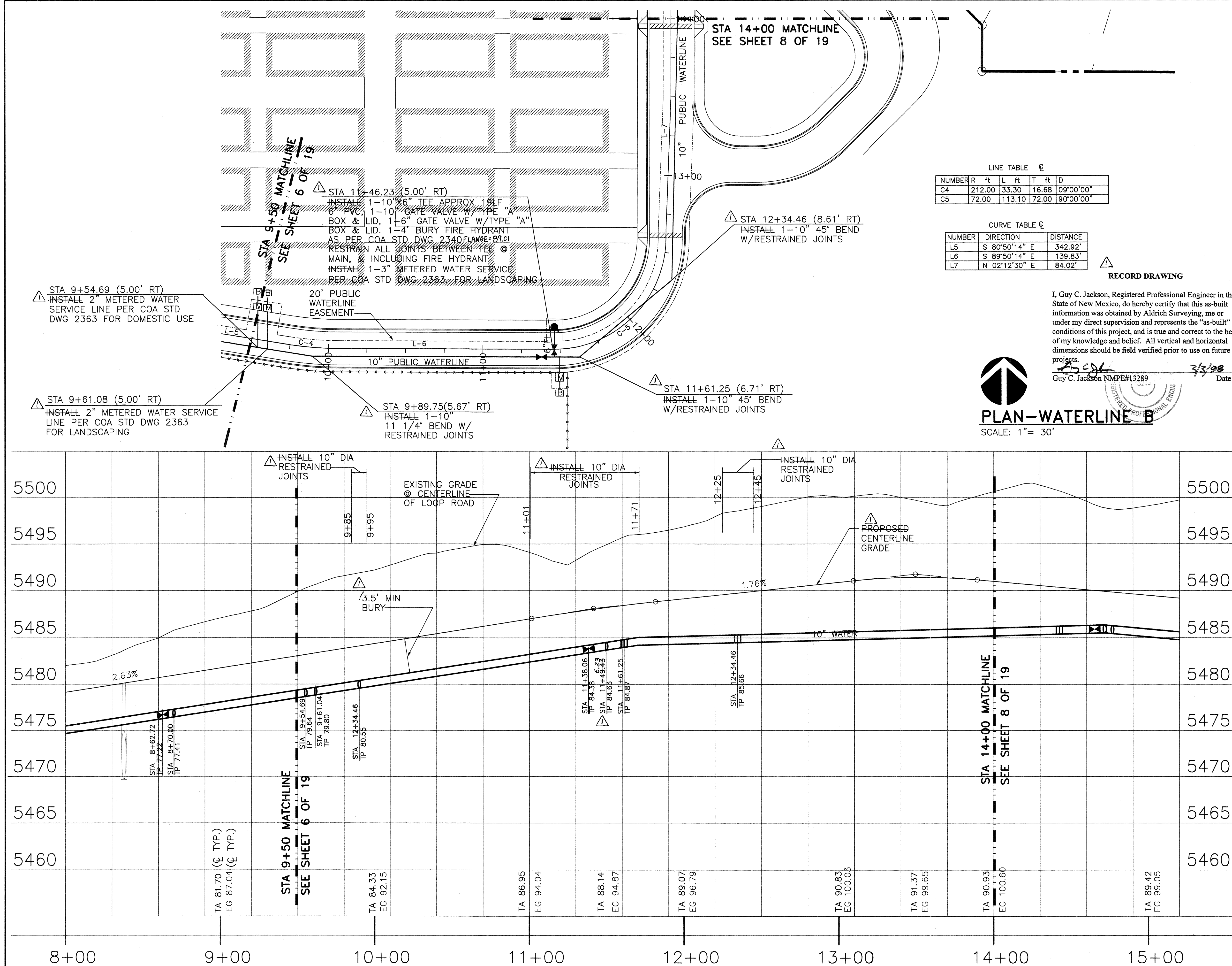
LEGEND

- TA = TOP OF ASPHALT @
EG = EXISTING GROUND @
- PROPOSED SD MANHOLE
PROPOSED SD INLET
EXISTING GATE VALVE
PROPOSED GATE VALVE
EXISTING FIRE HYDRANT
PROPOSED FIRE HYDRANT
PROPOSED PIV
EXISTING SAS MANHOLE
PROPOSED SAS MANHOLE
PROPOSED 4" DBL CLEANOUT
- EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
PROPOSED STORM DRAIN
PROPOSED GAS MAIN
EXISTING UTILITY ESMT
PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
WATERLINE PLAN & PROFILE LINE A

APPROVALS	ENGINEER	DATE
DRC Chairman	Water	5-17-96
Transportation	Waste Water	5-17-96
Hydrology		
Parks & Rec.		
DRAWING NO.	MAP NO.	SHEET OF
541481	C-20	6 19



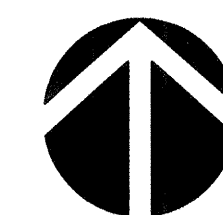
LINE TABLE				
NUMBER	R ft	L ft	T ft	D
C4	212.00	33.30	16.68	09°00'00"
C5	72.00	113.10	72.00	90°00'00"

CURVE TABLE		
NUMBER	DIRECTION	DISTANCE
L5	S 80°50'14" E	342.92'
L6	S 89°50'14" E	139.83'
L7	N 02°12'30" E	84.02'

RECORD DRAWING

I, Guy C. Jackson, Registered Professional Engineer in the State of New Mexico, do hereby certify that this as-built information was obtained by Aldrich Surveying, me or under my direct 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 use on future projects.

Guy C. Jackson NMPE#13289
Date 3/3/98



PLAN-WATERLINE B

SCALE: 1" = 30'

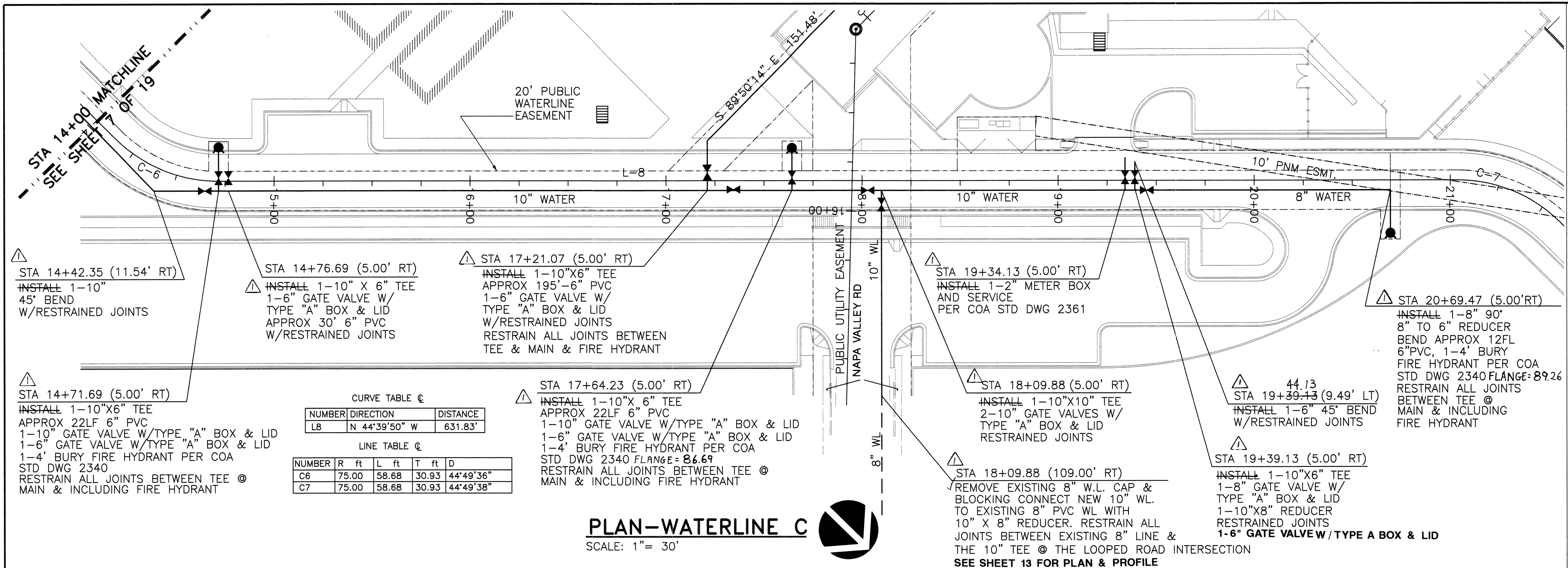
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- ALL CURVE DATA & DIMENSIONS REFER TO FACE OF CURB AT FLOWLINE UNLESS OTHERWISE SPECIFIED.
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- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- REMOVAL OF THE EXISTING CURB & GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
- NOTIFY COA WATER SYSTEMS FIVE (5) DAYS PRIOR TO VALVE SHUT OFF OR OPERATION. CONTRACTOR IS NOT TO OPERATE CITY VALVES.

LEGEND

- TA TOP OF ASPHALT ϕ
 EG EXISTING GROUND ϕ
 \odot PROPOSED SD MANHOLE
 \equiv PROPOSED SD INLET
 \times EXISTING GATE VALVE
 \times PROPOSED GATE VALVE
 \circ EXISTING FIRE HYDRANT
 \bullet PROPOSED FIRE HYDRANT
 \bullet PROPOSED PIV
 \circ EXISTING SAS MANHOLE
 \bullet PROPOSED SAS MANHOLE
 \bullet PROPOSED 4" DBL CLEANOUT
 --- 18" W --- EXISTING WATER MAIN
 --- 10" W --- PROPOSED WATER MAIN
 --- 8" SAS --- EXISTING SANITARY SEWER
 --- 8" SAS --- PROPOSED SANITARY SEWER
 --- 6" SD --- PROPOSED STORM DRAIN
 --- G --- PROPOSED GAS MAIN
 --- --- EXISTING UTILITY ESMT
 --- --- PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL WATERLINE PLAN & PROFILE LINE B			
APPROVALS	ENGINEER	DATE	DATE
DRC Chairman	Water	5/9/96	5/9/96
Transportation	Waste Water	5/9/96	5/9/96
Hydrology		5/9/96	5/9/96
Parks & Rec.		5/9/96	5/9/96
DRAWING NO.	541481	MAP NO.	C-20
SHEET	7	OF	19



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LEGEND

- TA TOP OF ASPHALT
EG EXISTING GROUND
PROPOSED SD MANHOLE
PROPOSED SD INLET
EXISTING GATE VALVE
PROPOSED GATE VALVE
EXISTING FIRE HYDRANT
PROPOSED FIRE HYDRANT
PROPOSED PIV
EXISTING SAS MANHOLE
PROPOSED SAS MANHOLE
PROPOSED 4" DBL CLEANOUT
EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
PROPOSED STORM DRAIN
PROPOSED GAS MAIN
EXISTING UTILITY ESMT
PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
WATERLINE PLAN & PROFILE LINE C

APPROVALS: [Signature] DATE: 5/96
DESIGNED BY: GJ/DAA
DRAWN BY: CDC
CHECKED BY: BAS

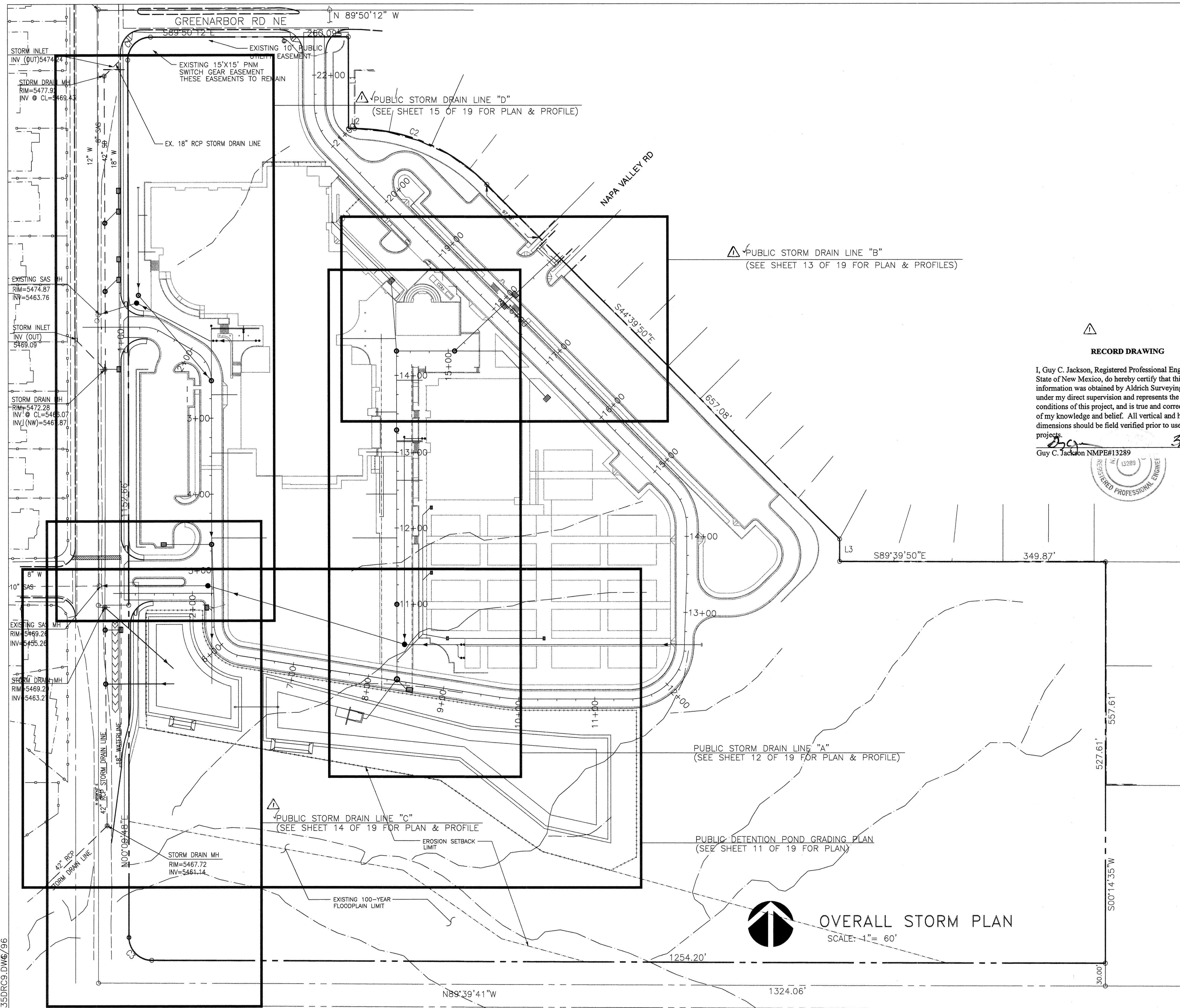
DESIGNED BY: GJ/DAA
DRAWN BY: CDC
CHECKED BY: BAS

DATE: 5/96
DATE: 5/96
DATE: 5/96

PROFILE

HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'

035DR08



GENERAL NOTES:

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9. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

RECORD DRAWING













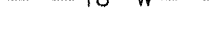

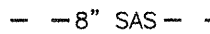
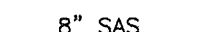
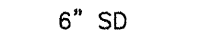
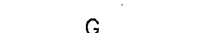
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Guy C. Jackson NMPE#13289

3/3/98
Date

Date _____


LEGEND

- | | |
|---|--------------------------|
|  | PROPOSED SD MANHOLE |
|  | PROPOSED SD INLET |
|  | EXISTING GATE VALVE |
|  | PROPOSED GATE VALVE |
|  | EXISTING FIRE HYDRANT |
|  | PROPOSED FIRE HYDRANT |
|  | PROPOSED PIV |
|  | EXISTING SAS MANHOLE |
|  | PROPOSED SAS MANHOLE |
|  | PROPOSED 4" DBL CLEANOUT |
|  | EXISTING WATER MAIN |
|  | PROPOSED WATER MAIN |
|  | EXISTING SANITARY SEWER |
|  | PROPOSED SANITARY SEWER |
|  | PROPOSED STORM DRAIN |
|  | PROPOSED GAS MAIN |
|  | EXISTING UTILITY ESMT |
|  | PROPOSED UTILITY ESMT |







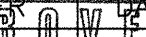
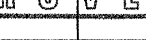
BPLW

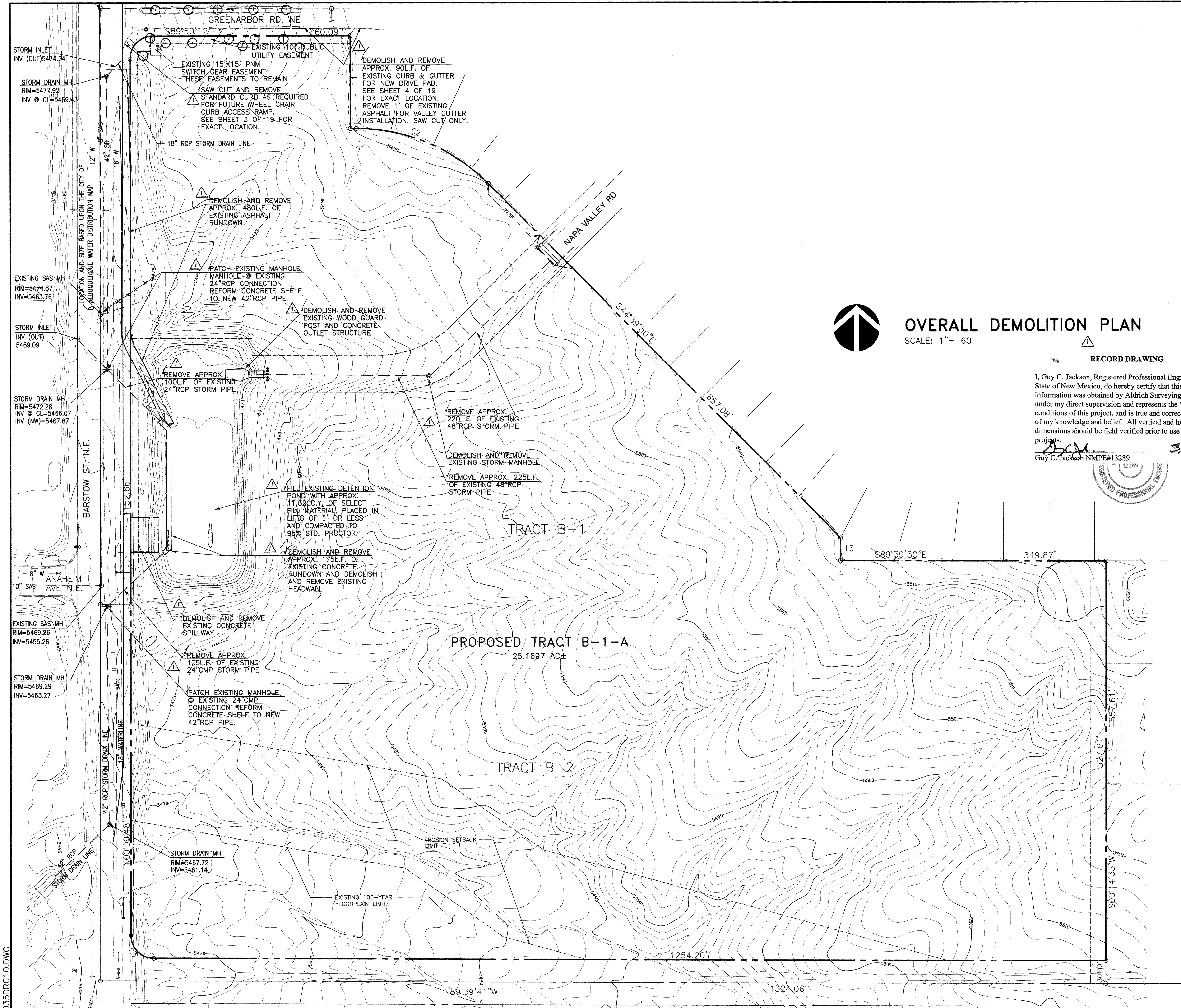
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



PLW

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
OVERALL STORM PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	   		Water		5-17-02
Transportation			Waste Water		5-17-02
Hydrology					
Parks & Rec.					
DRAWING NO.	DESIGN REVIEW COMMITTEE		MAP NO.	SHEET OF	
54148	1		C-20	9 OF 19	



OVERALL DEMOLITION PLAN

SCALE: 1" = 60'

RECORD DRAWING

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Guy C. Jackson 3/3/98
Guy C. Jackson NMPE#13289 Date

GENERAL NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS & NOTIFY THE ENGINEER IMMEDIATELY OF ANY DESCRIPTIONS.
- NOT USED
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL DAMAGED UTILITY CONDUITS & EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE INSPECTORS (CITY & PRIVATE) w/ A PROPOSED HYDRO-STATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES TO REMAIN (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- REMOVAL OF THE EXISTING CURB & GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF CURB AND GUTTER.
- ALL DEMOLITION AND EXCESS SITE MATERIAL SHALL BE REMOVED BY THE CONTRACTOR TO A COA APPROVED DUMP SITE.
- THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING PERMIT (SITE) CONTRACTOR FOR THE SEQUENCING OF ALL WORK (BOTH PRIVATE & PUBLIC).

LEGEND

	PROPOSED SD MANHOLE
	PROPOSED SD INLET
	EXISTING GATE VALVE
	PROPOSED GATE VALVE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED PIV
	EXISTING SAS MANHOLE
	PROPOSED SAS MANHOLE
	PROPOSED 4" DBL CLEANOUT
	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING SANITARY SEWER
	PROPOSED SANITARY SEWER
	PROPOSED STORM DRAIN
	PROPOSED GAS MAIN
	EXISTING UTILITY ESMT
	PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL OVERALL DEMOLITION PLAN	
APPROVALS	ENGINEER
DRC Chairman	Water
Transportation	Waste Water
Hydrology	
Parks & Rec.	
DRAWING NO. 541481	MAP NO. C-20
SHEET 10 OF 19	

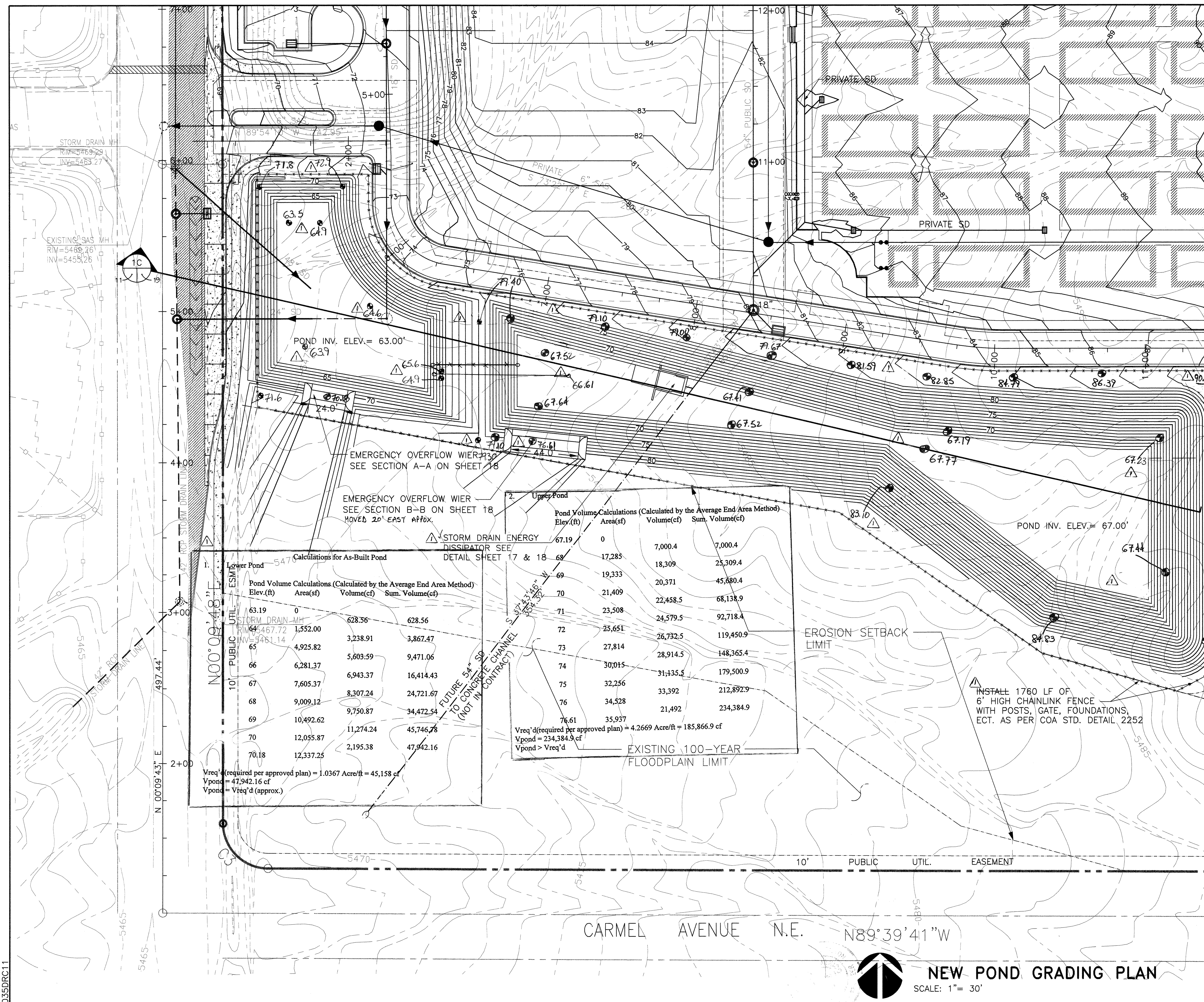
AS BUILT INFORMATION	
CONTRACTOR	R. Hale
DATE	6/97
INSPECTOR	BPLW
DATE	7/97
FIELD	BPLW
DATE	12/97
REVISION	BPLW
DATE	12/97
CORRECTED BY	
RECORDED BY	
NO.	

BENCH MARKS	
A STANDARD A.C.S. BRASS TABLET STAMPED	
"C21A-1976" SET IN TOP OF A CONCRETE	
POST FLUSH WITH THE GROUND. THE STATION	
IS LOCATED AT THE NORTHEAST CORNER OF	
THE INTERSECTION OF LOS ANGELES DR. N.E.	
(PRESENTLY PASO DEL NORTE) AND HOLBROOK	
ST. N.E. ELEVATION = 5634.65 (M.S.L.D.)	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	5/95
JEFF MORTENSEN	
& ASSOC.	

ENGINEER'S SEAL	
DESIGNED BY	GCJ/DAA
DATE	5/96
DRAWN BY	CDC
DATE	5/96
CHECKED BY	BAS
DATE	5/96

REVISIONS	
NO.	DATE
1	12/97
2	5-24-98



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RECORD DRAWING

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Guy C. Jackson NPE#13289
10/28/98 Date

LEGEND

- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- ✕ EXISTING GATE VALVE
- ✕ PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- ⋮ PROPOSED 4" DBL CLEANOUT
- 18" W — EXISTING WATER MAIN
- 10" W — PROPOSED WATER MAIN
- 8" SAS — EXISTING SANITARY SEWER
- 8" SAS — PROPOSED SANITARY SEWER
- 6" SD — PROPOSED STORM DRAIN
- G — PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

1. Lower Pond

Calculations for As-Built Pond			
Elev.(ft)	Area(sf)	Volume(cf)	Sum. Volume(cf)
63.19	0	628.56	628.56
64.46	1,552.00	3,238.91	3,867.47
65	4,925.82	5,603.59	9,471.06
66	6,281.37	6,943.37	16,414.43
67	7,605.37	8,307.24	24,721.67
68	9,009.12	9,750.87	34,472.54
69	10,492.62	11,274.24	45,746.78
70	12,055.87	2,195.38	47,942.16
70.18	12,337.25		

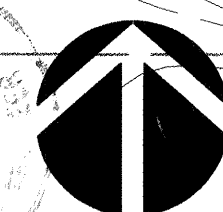
Vreq'd (required per approved plan) = 1.0367 Acre/ft = 45,158 cf
Vpond = 47,942.16 cf
Vpond > Vreq'd (approx.)

2. Upper Pond

Pond Volume Calculations (Calculated by the Average End Area Method)			
Elev.(ft)	Area(sf)	Volume(cf)	Sum. Volume(cf)
67.19	0	7,000.4	7,000.4
68	17,285	18,309	25,309.4
69	19,333	20,371	45,680.4
70	21,409	22,458.5	68,138.9
71	23,508	24,579.5	92,718.4
72	25,651	26,732.5	119,450.9
73	27,814	28,914.5	148,365.4
74	30,015	31,135.5	179,500.9
75	32,256	33,392	212,892.9
76	34,528	21,492	234,384.9
76.61	35,937		

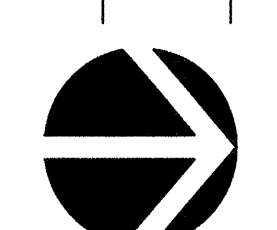
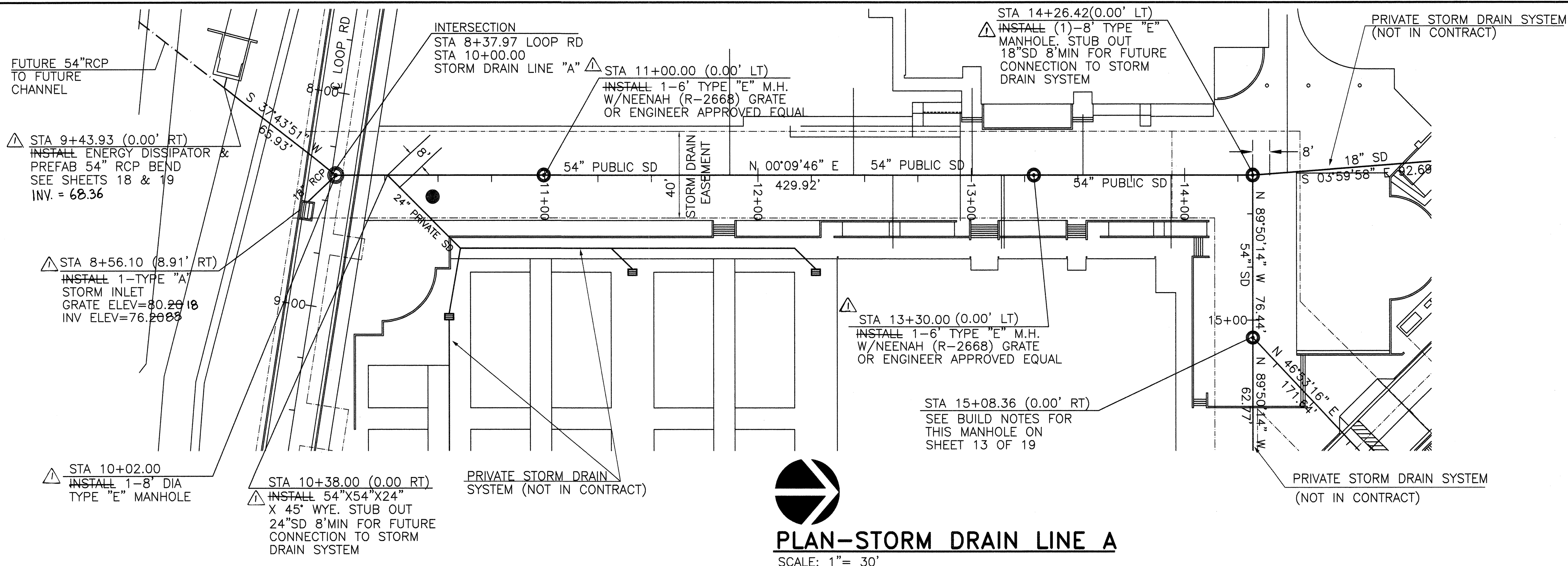
Vreq'd (required per approved plan) = 4.2669 Acre/ft = 185,866.9 cf
Vpond = 234,384.9 cf
Vpond > Vreq'd

BPLW		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL NEW POND GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology					
Parks & Rec.					
DRAWING NO.	541481	MAP NO.	C-20	SHEET	11 OF 19

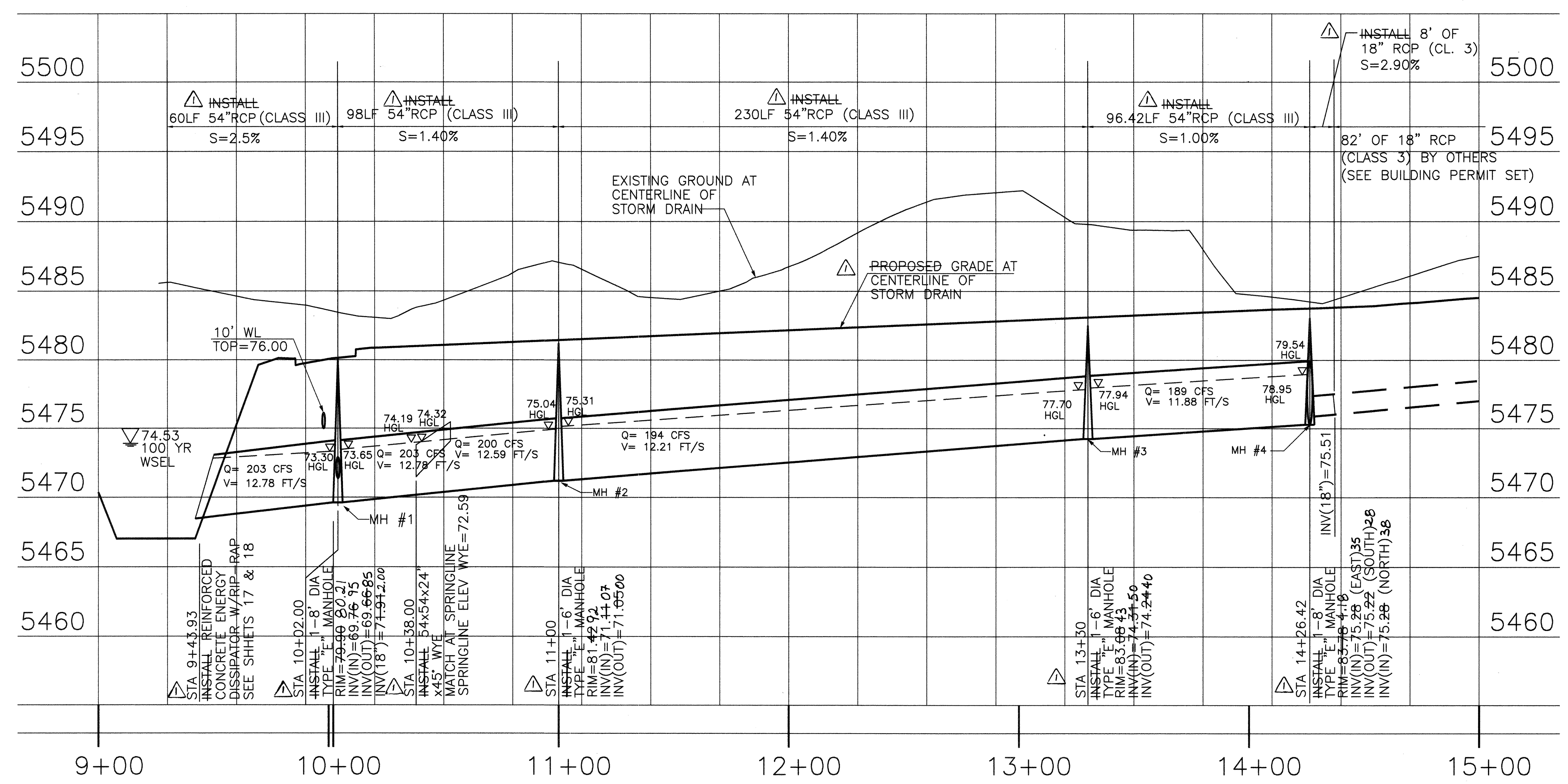


NEW POND GRADING PLAN

SCALE: 1" = 30'



PLAN-STORM DRAIN LINE A
SCALE: 1"= 30'



PROFILE
HORIZONTAL: 1"= 30'
VERTICAL: 1"= 5'

GENERAL NOTES:

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8. REMOVAL OF THE EXISTING CURB & GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).
9. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
10. ALL STUB OUTS FOR FUTURE STORM DRAIN LINES TO BE 8' MINIMUM FROM INTERSECTION STATION.

RECORD DRAWING

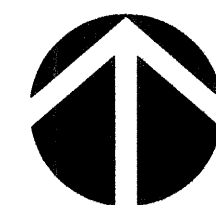
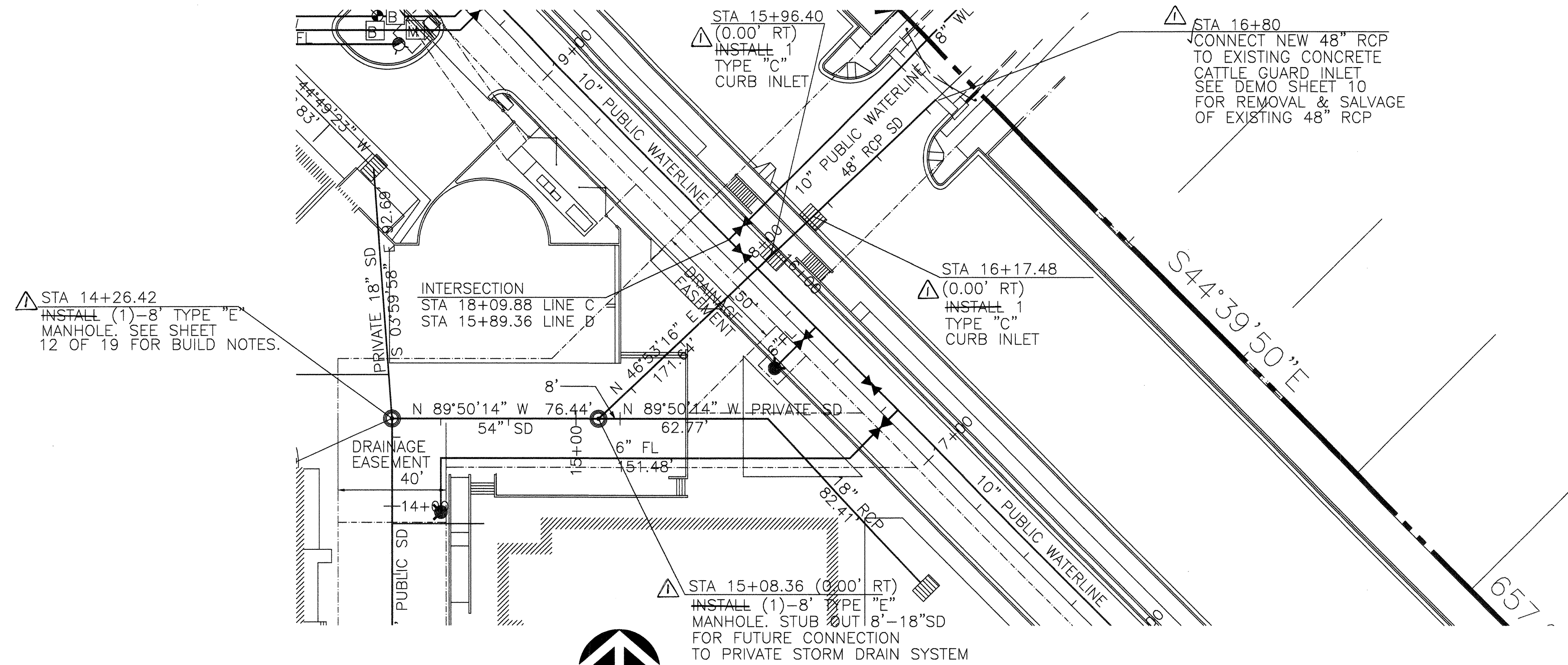
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Guy C. Jackson NMPE#13289 3/3/96 Date

LEGEND

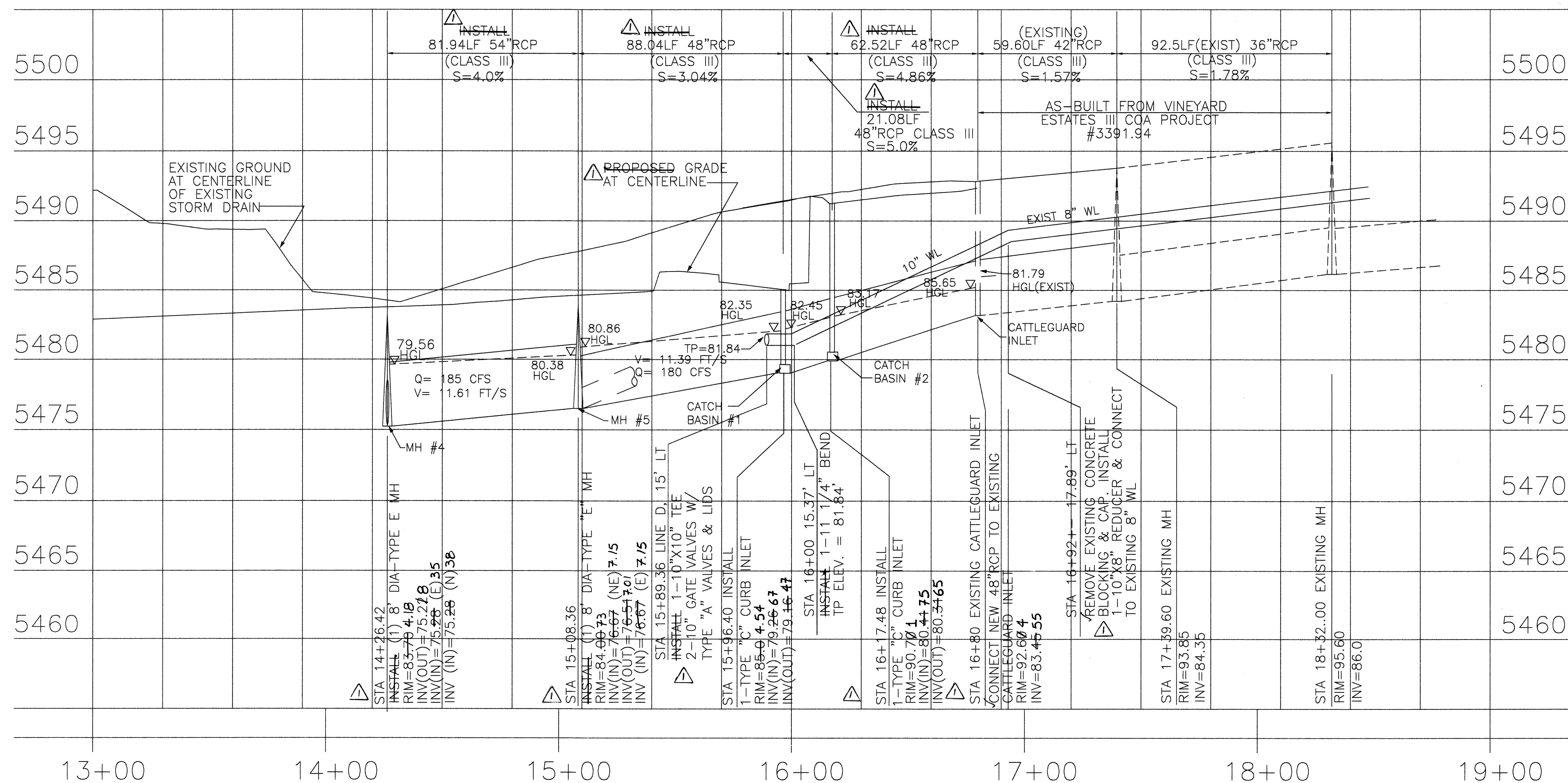
- PROPOSED SD-MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- PROPOSED 4" DBL CLEANOUT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL STORM DRAIN PLAN & PROFILE LINE A			
APPROVALS	ENGINEER	DATE	
DRC Chairman	Water	DATE	
Transportation	Waste Water	DATE	
Hydrology		DATE	
Parks & Rec.		DATE	
DRAWING NO.	541481	MAP NO.	C-20
SHEET	12	OF	19



PLAN-STORM DRAIN LINE B

SCALE: 1" = 30'



PROFILE

HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'

GENERAL NOTES:

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- REMOVAL OF THE EXISTING CURB & GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
- ALL STUB OUTS FOR FUTURE, STORM DRAIN LINES TO BE 8' MINIMUM FROM INTERSECTION STATION.

RECORD DRAWING

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Guy C. Jackson NMPE#13289

3/3/98
Date

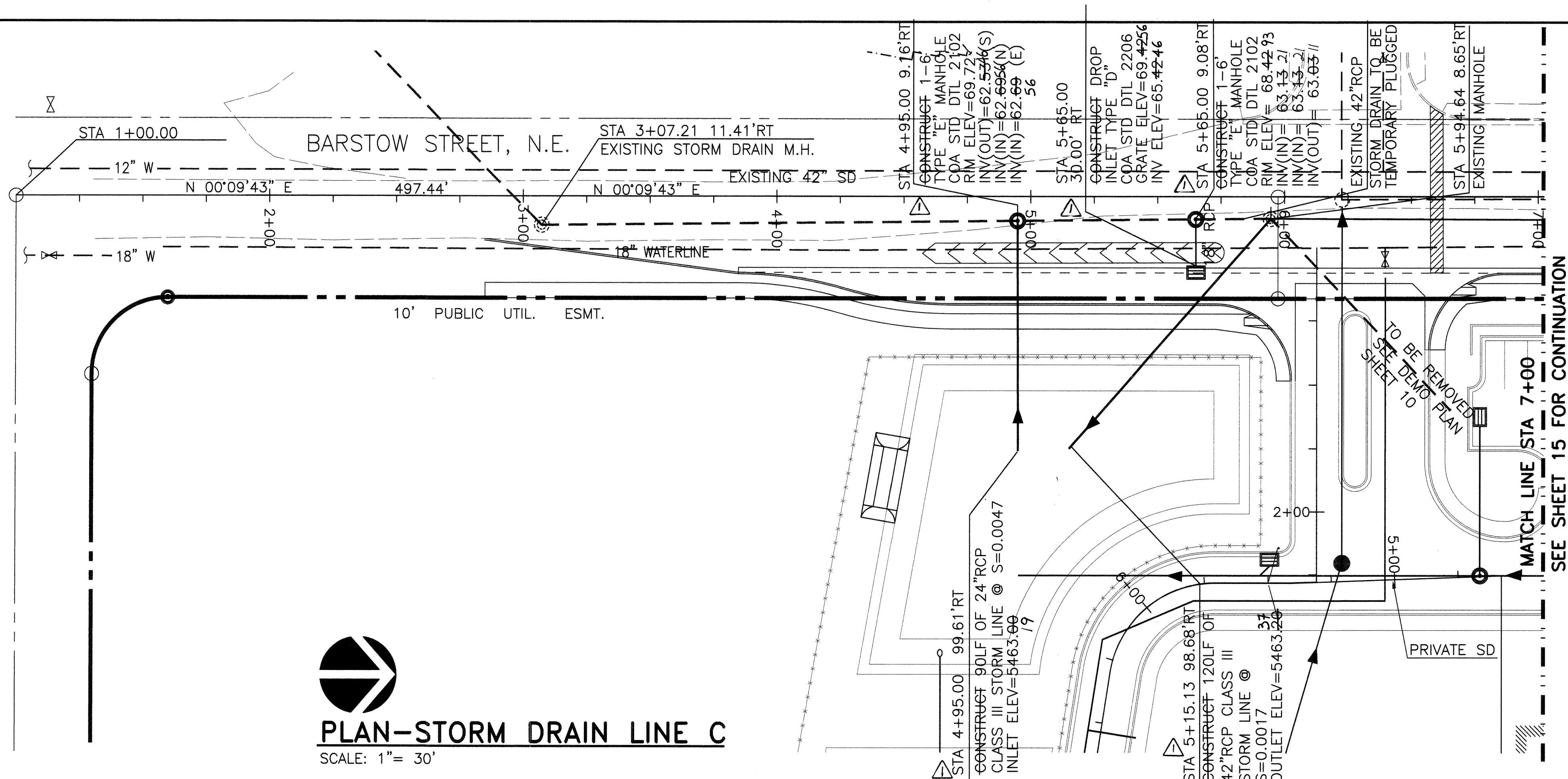
LEGEND

- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
- PROPOSED 4" DBL CLEANOUT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

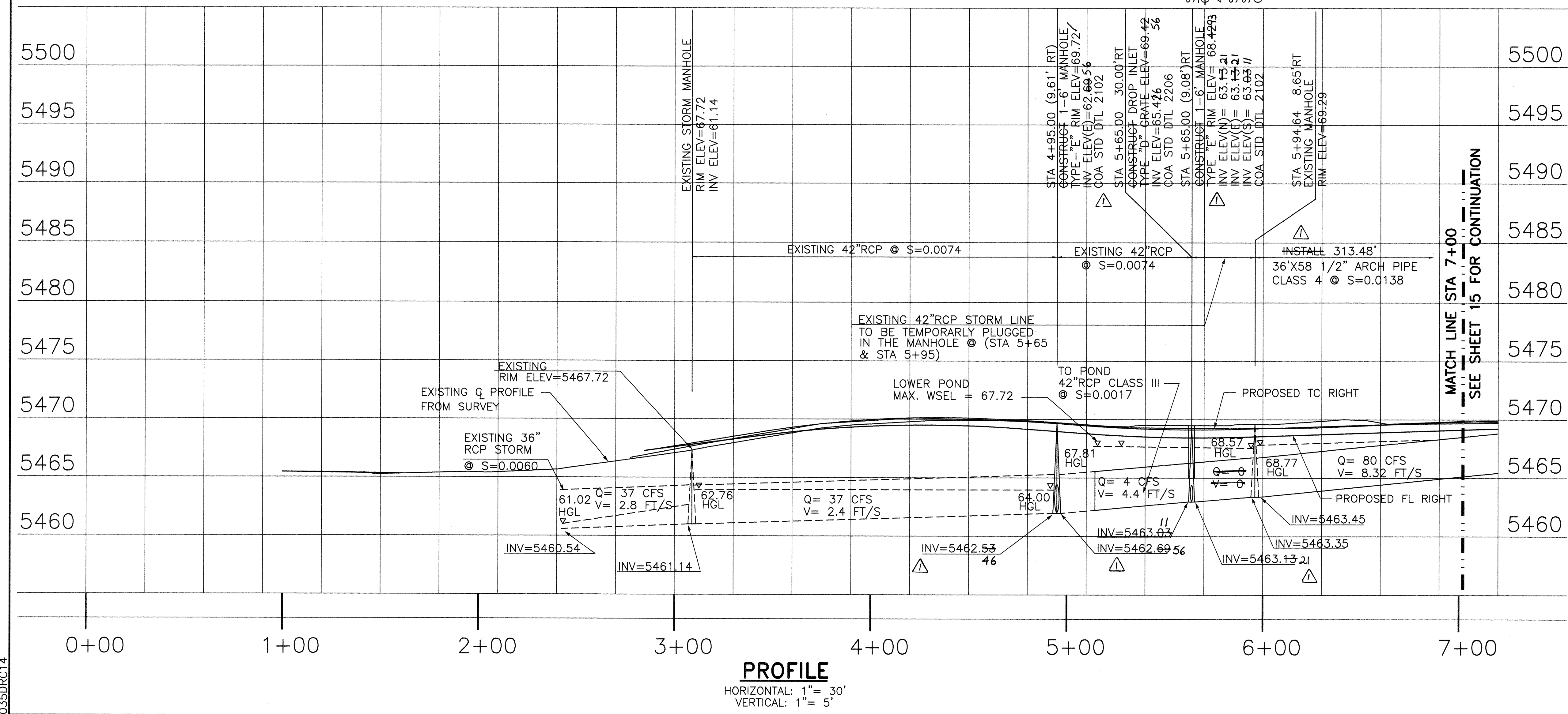
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
STORM DRAIN PLAN & PROFILE LINE B

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology					
Parks & Rec.					
DRAWING NO.	541481	MAP NO.	C-20	SHEET	13 OF 19



PLAN-STORM DRAIN LINE C
SCALE: 1" = 30'



PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'

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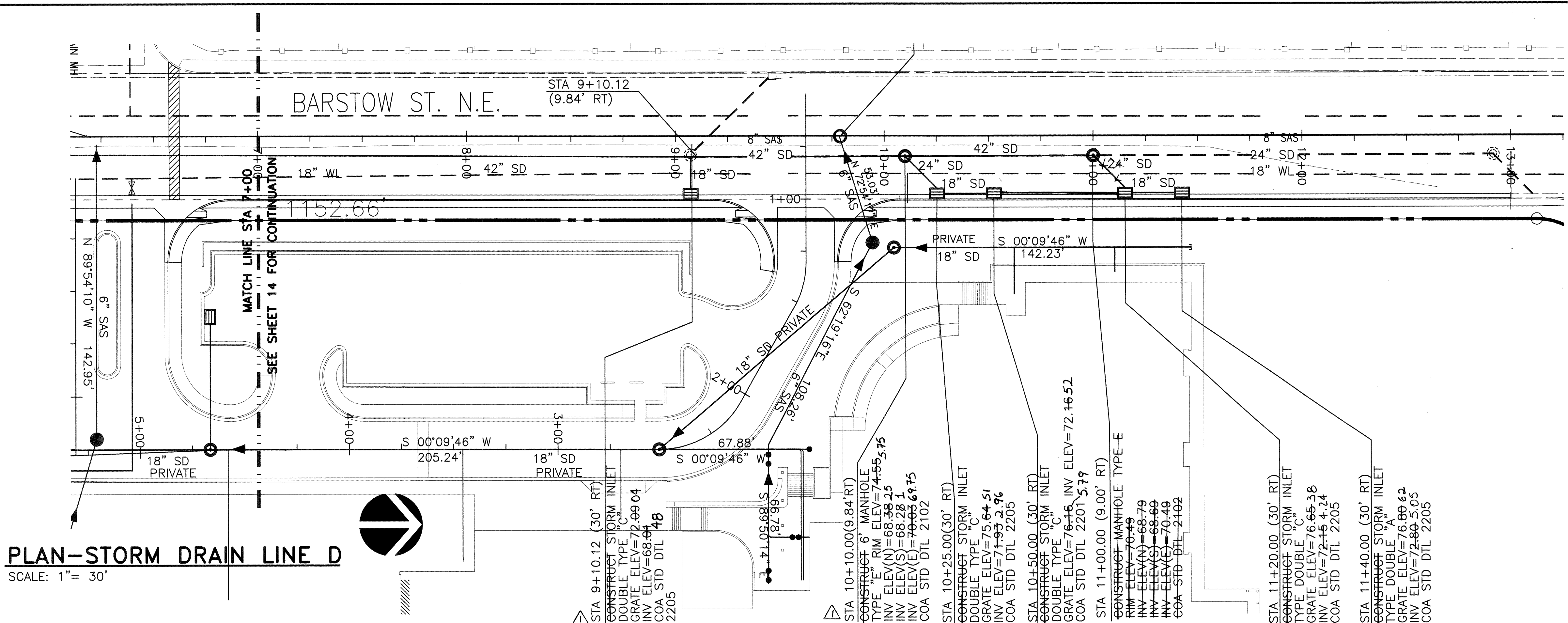
Guy C. Jackson NMPE#13289 Date 3/3/98

LEGEND

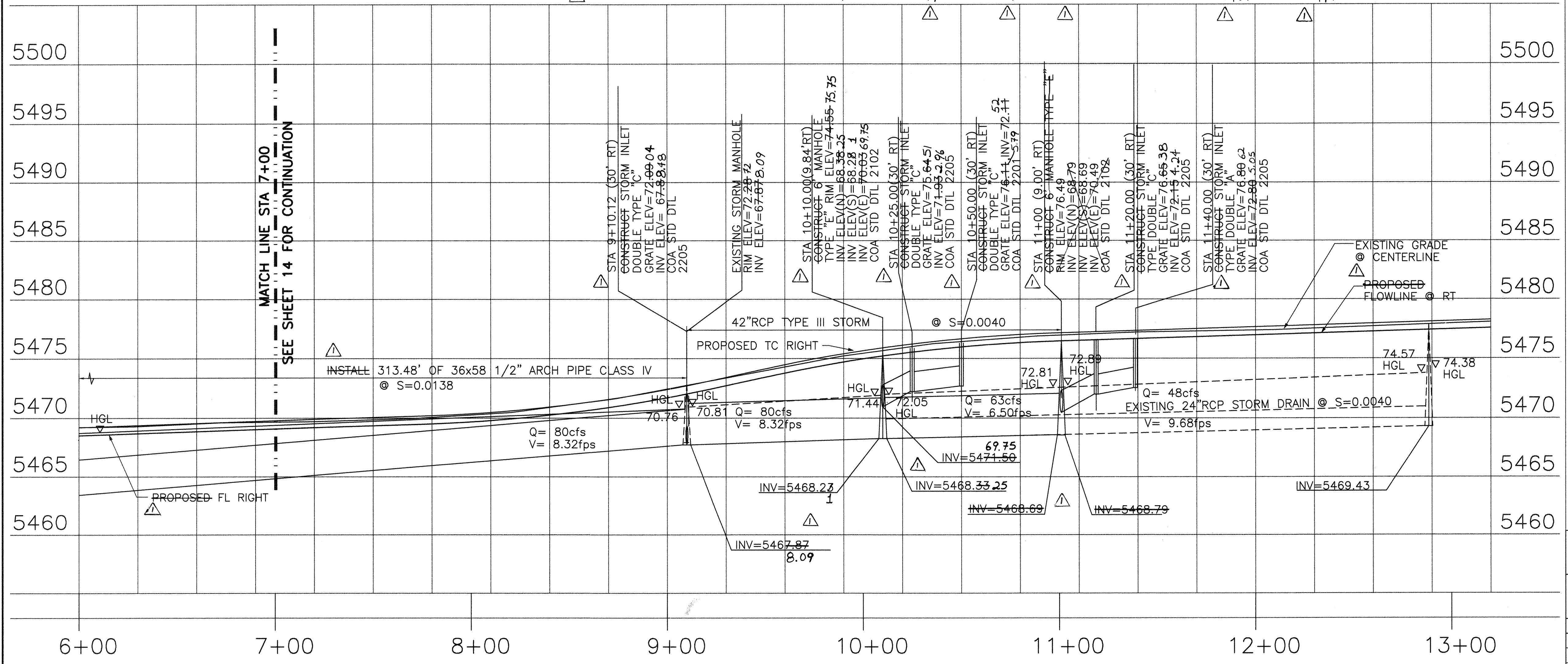
- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
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- PROPOSED SAS MANHOLE
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- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL STORM DRAIN PLAN & PROFILE LINE C				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
DRC Chairman	Water			
Transportation	Waste Water			
Hydrology				
Parks & Rec.				
DRAWING NO.	541481	MAP NO.	C-20	SHEET 14 OF 19

035DRC14



PLAN-STORM DRAIN LINE D
SCALE: 1" = 30'



PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'

GENERAL NOTES:

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9. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

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Guy C. Jackson NMPE#13299 3/3/98 Date

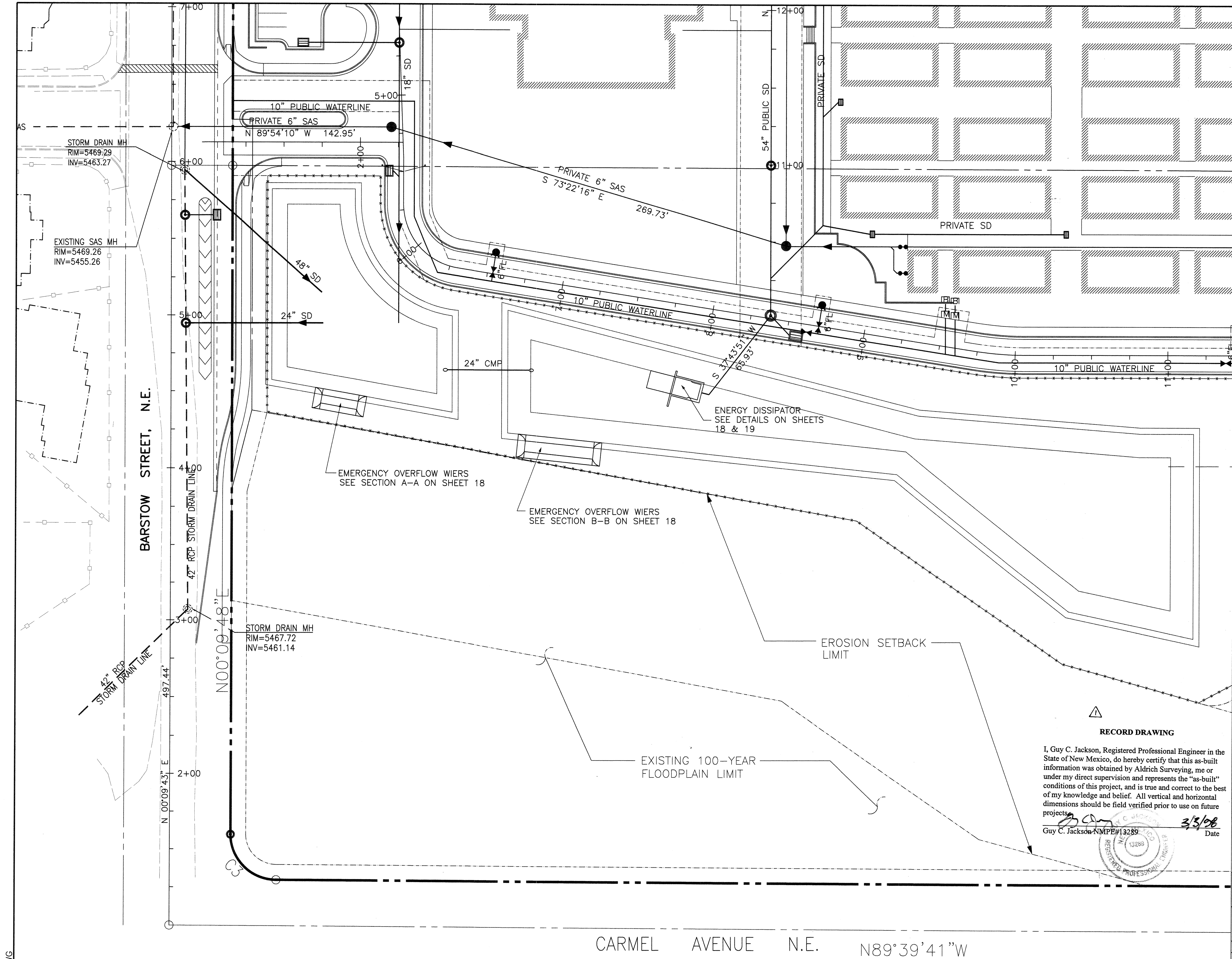
LEGEND

- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED PIV
- EXISTING SAS MANHOLE
- PROPOSED SAS MANHOLE
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- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED GAS MAIN
- EXISTING UTILITY ESMT
- PROPOSED UTILITY ESMT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL
STORM DRAIN PLAN & PROFILE LINE D

APPROVALS	ENGINEER	DATE
DRC Chairman	Water	5/96
Transportation	Waste Water	5/96
Hydrology		5/96
Parks & Rec.		5/96
DESIGNED BY: GC/JA	DRAWN BY: CDC	CHECKED BY: BAS
DRAWING NO. 541481	MAP NO. C-20	SHEET 15 OF 19



GENERAL NOTES:

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- PROPOSED UTILITY ESMT

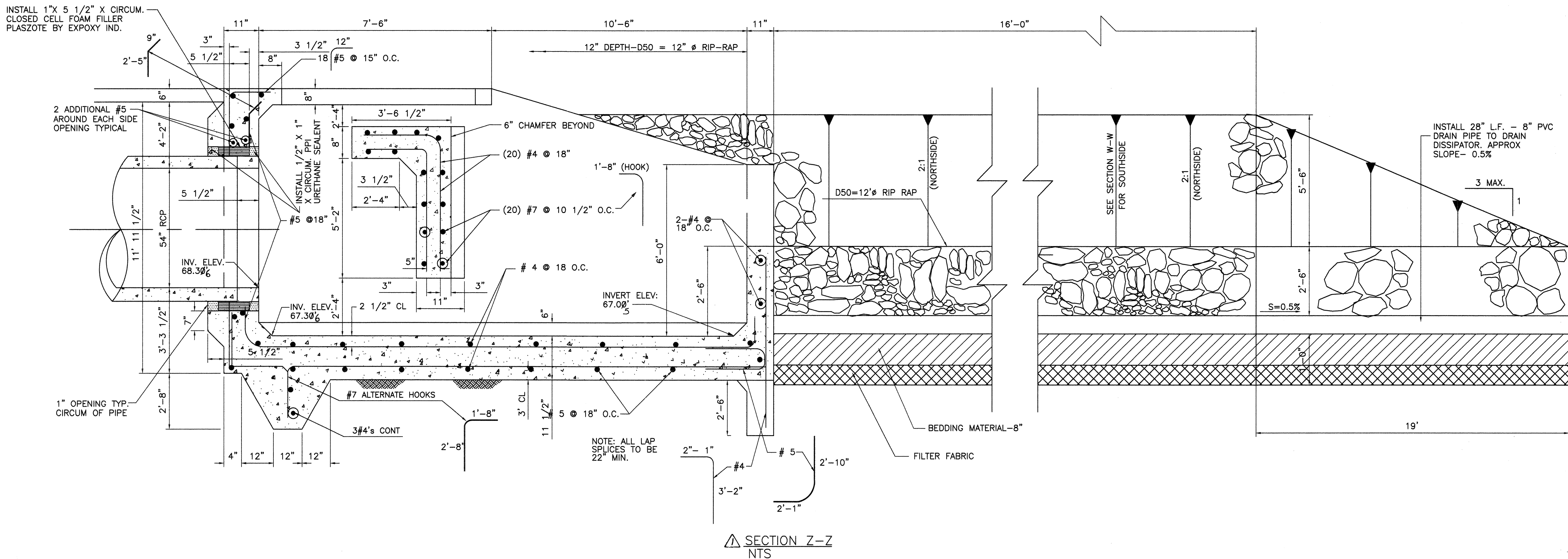
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3/3/96
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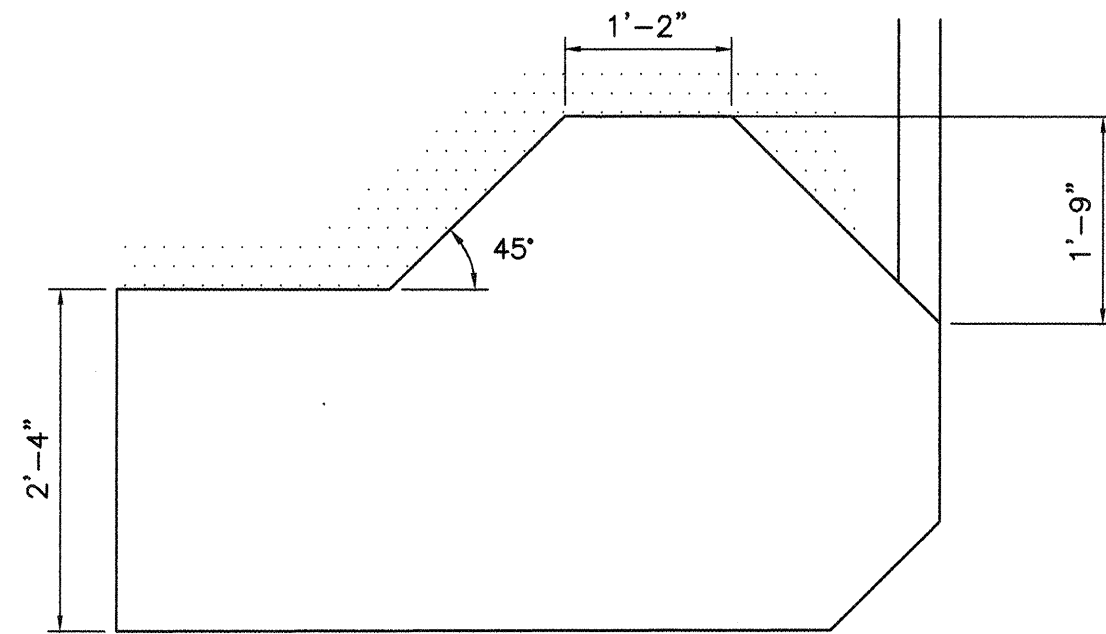
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL ENERGY DISSIPATOR	
APPROVALS	ENGINEER
DRC Chairman	Water
Transportation	Waste Water
Hydrology	
Parks & Rec.	
DESIGN REVIEW COMMITTEE	
DRAWING NO. 541481	MAP NO. C-20
SHEET 16 OF 19	



CLASSIFICATION AND GRADUATION OF ORDINARY RIPRAP			
RIP RAP DESIGNATION	90 SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	RIP RAP
TYPE 'M'	70-100	21	12\"D50
	50-70	18	
	35-50	12	
	2-10	4	

ANGULAR FRACTURED FACES (2 SIDES)

THICKNESS REQUIREMENTS FOR GRANULAR BEDDING
**8\" TYPE II COURSE GRAINED SOILS W/4\" FILTER FABRIC



SIEVE SIZE	% PASSING SQUARE MESH SIEVE
2"	90-100
1 1/2"	20-90
3/4"	
3/8"	
#4	0-20
#16	
#50	
#100	

**50% OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE

GENERAL STRUCTURAL NOTES FOR CONCRETE STRUCTURES

- CODES AND MANUALS:
Uniform Building Code, 1991 Edition
ACI 318, Latest Edition, Building Code Requirements for Reinforced Concrete.
- GENERAL:
 - The Contractor shall verify all dimensions in the field.
 - Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and resubmitted.
 - The Contractor shall be responsible for providing safe and adequate shoring for all parts of the wall and adjacent structures during construction, as well as worker safety and compliance with OSHA or other agency safety guidelines.
 - The Contractor shall field verify all existing utility locations and notify the engineer immediately of any discrepancies.
 - Grade elevations, where noted, are for top of finished concrete unless otherwise noted.
 - Contractor is responsible for repair and/or replacement of all utility conduits and existing lines.
 - Not used
 - Contractor shall park equipment and vehicles as not to interfere with normal activities of residents or other contractors on site.
 - Any damage to existing facilities (curb and gutter, pavement, conduits, landscaping, utilities, etc.) during construction shall be replaced at the Contractor's expense.
 - Not used
- MATERIALS:
 - Cast-in-Place Concrete:
 - All concrete shall conform to the specifications for Structural Concrete, ACI 301 Latest Edn.
 - Hardrock Concrete: Dry unit weight = 145 pc
a. 4000 psi @ 28 days (air entrained) -
b. Maximum dry unit weight = 145 pcf.
c. Maximum slump = 4 inches.
d. Maximum aggregate size 3/4"
e. Minimum cement content, per ACI 301 design methods.
Use Type I and II cement.

- Reinforcing Steel:
 - All reinforcing steel shall conform to ASTM A615 Grade 60; except stirrups, ties, may conform to ASTM A615 Grade 40.
 - Reinforcing shall be stored in such a manner as to inhibit rusting or the deposit of oils or other bond inhibiting deposits.
 - Reinforcing steel shall be fabricated and placed in accordance with the Building Code Requirements for Reinforced Concrete (ACI 318) and the CRSI Standard Manual.
 - Bar supports and spaces for rebar shall be provided in accordance with ACI and CRSI.
 - All lap splices shall be class B.
 - Concrete cover for reinforcing shall be as follows:
 - Concrete poured against earth 3 inches
 - Concrete poured in forms but exposed to weather or earth:
 - If bars are larger than No. 5 2 inches
 - If bars are No. 5 or smaller 1 1/2 inches
 - The Contractor shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remains in the position shown during the concrete placing operation. Any rebar found to be improperly installed shall be removed at no additional cost to the Owner.
 - Form ties shall be either of the threaded or snap-off type or other approved equal so that no metal will be left within 1 inch of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.
 - Concrete Finish to meet all COA specs.

RECORD DRAWING

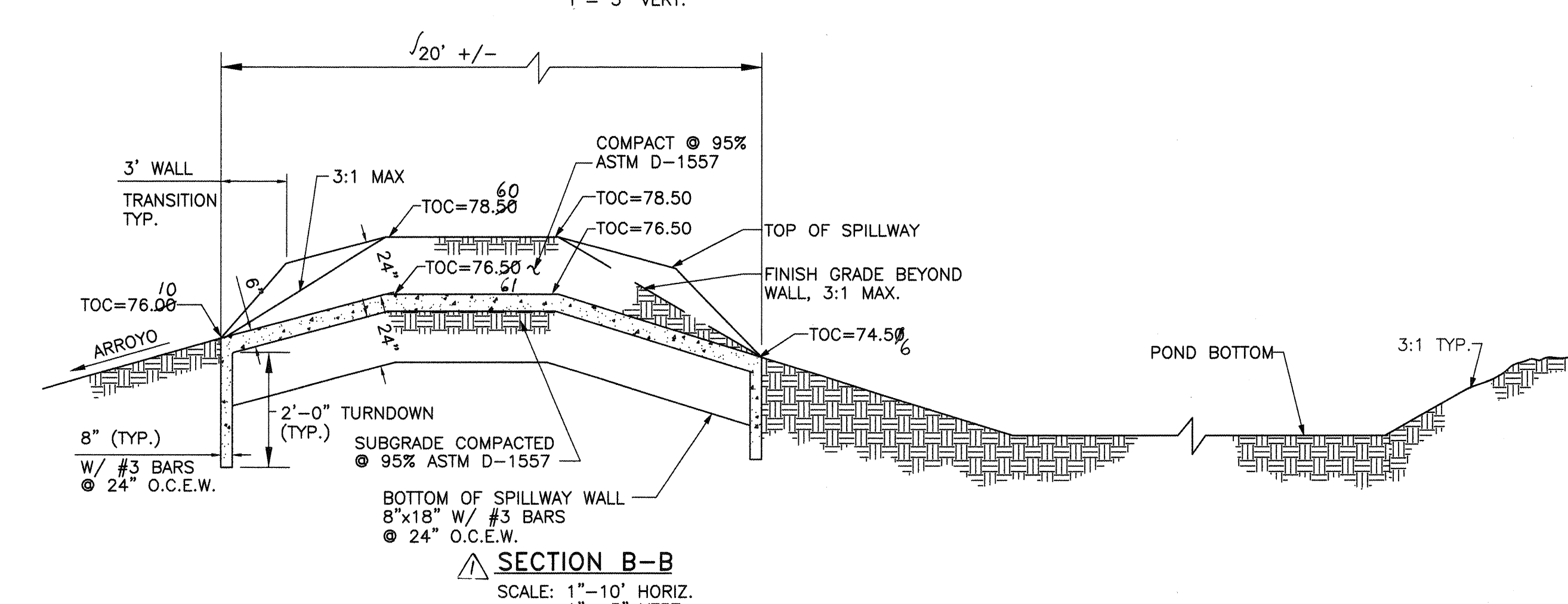
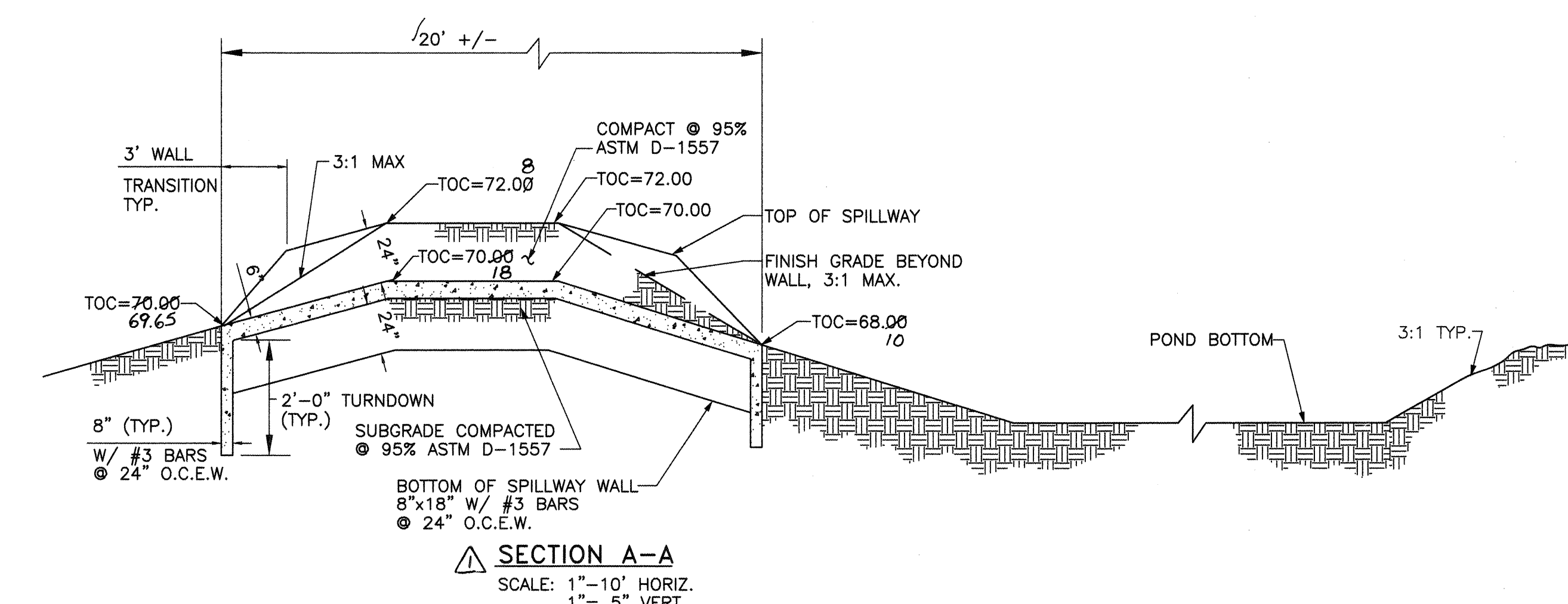
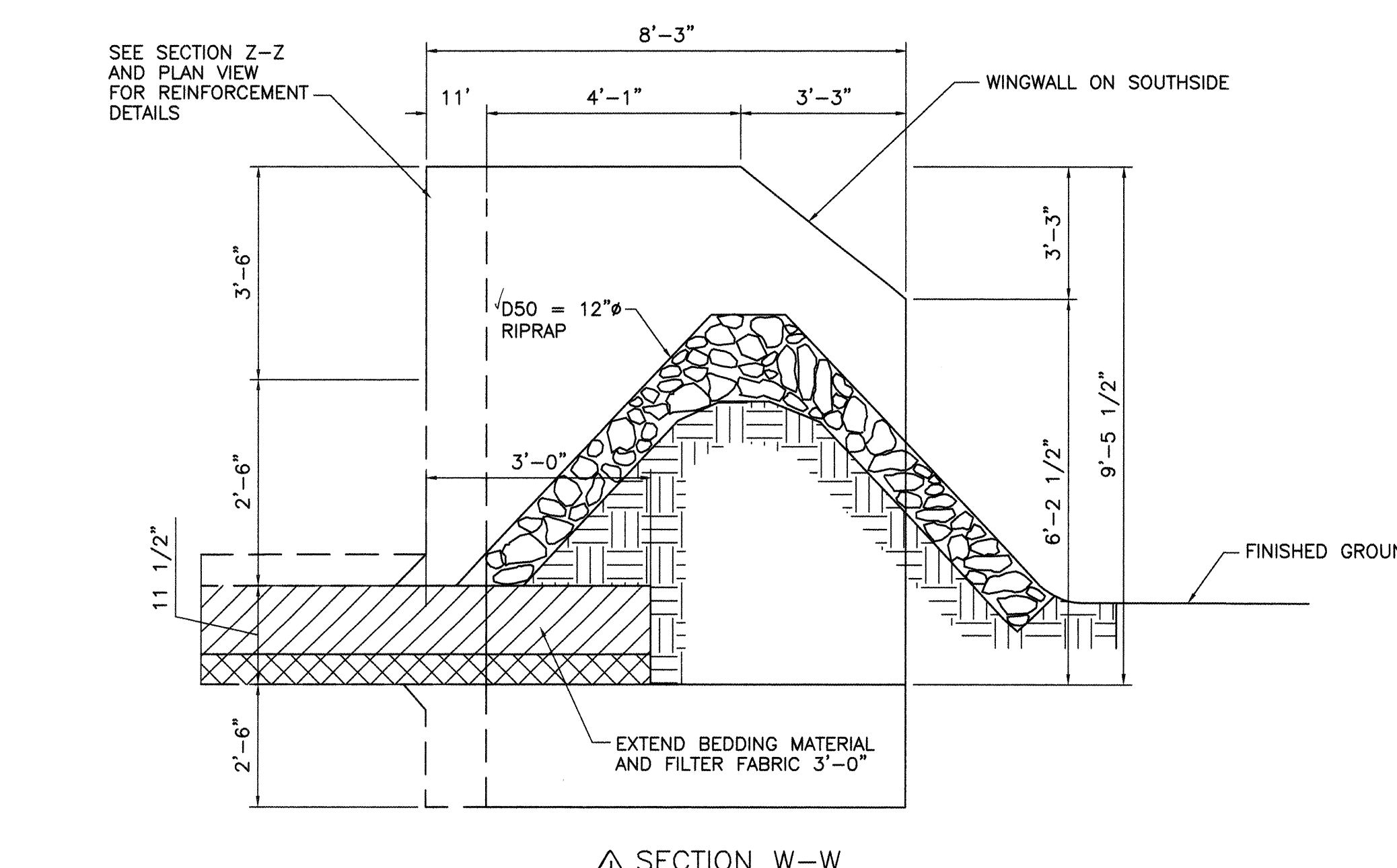
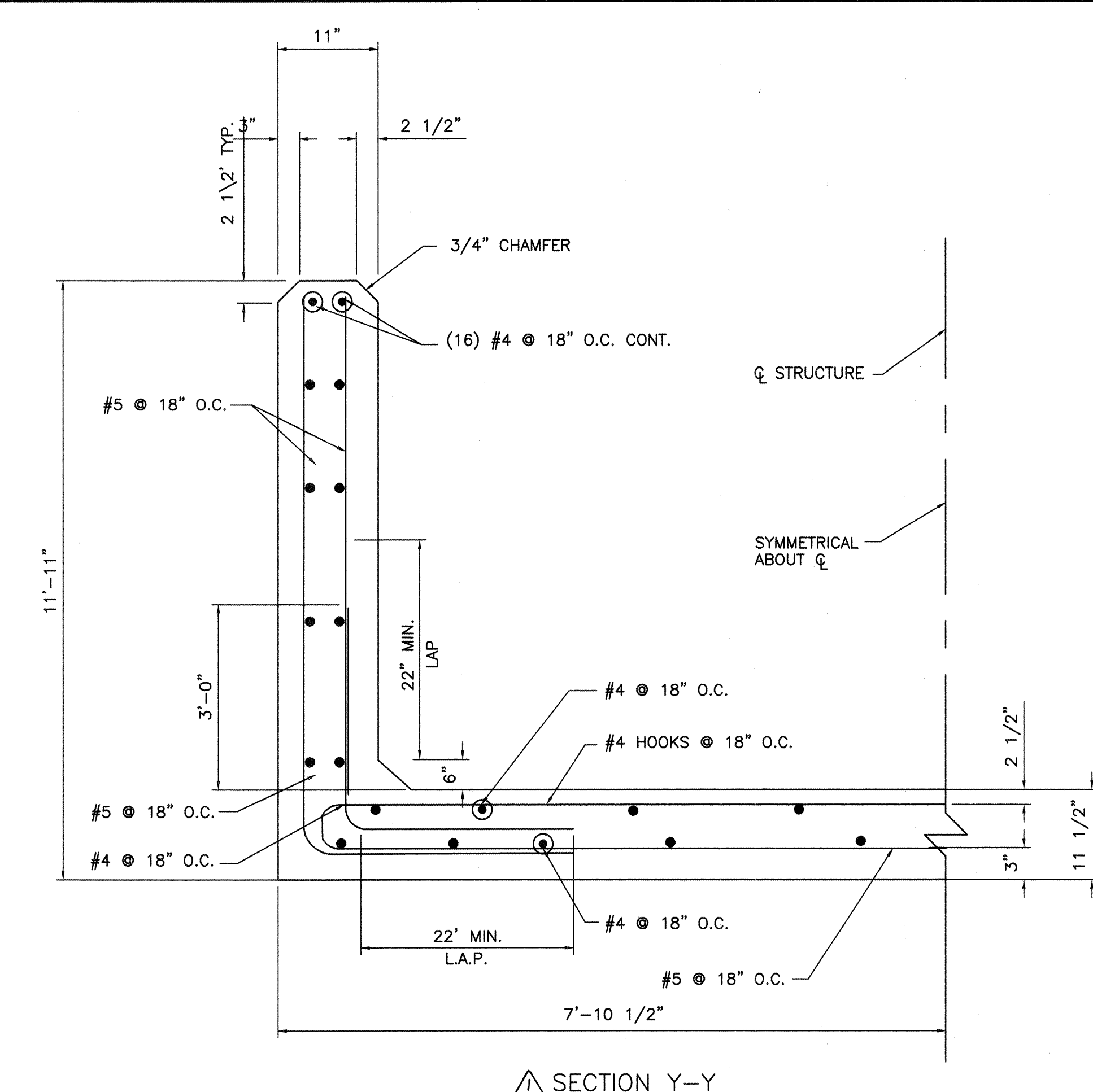
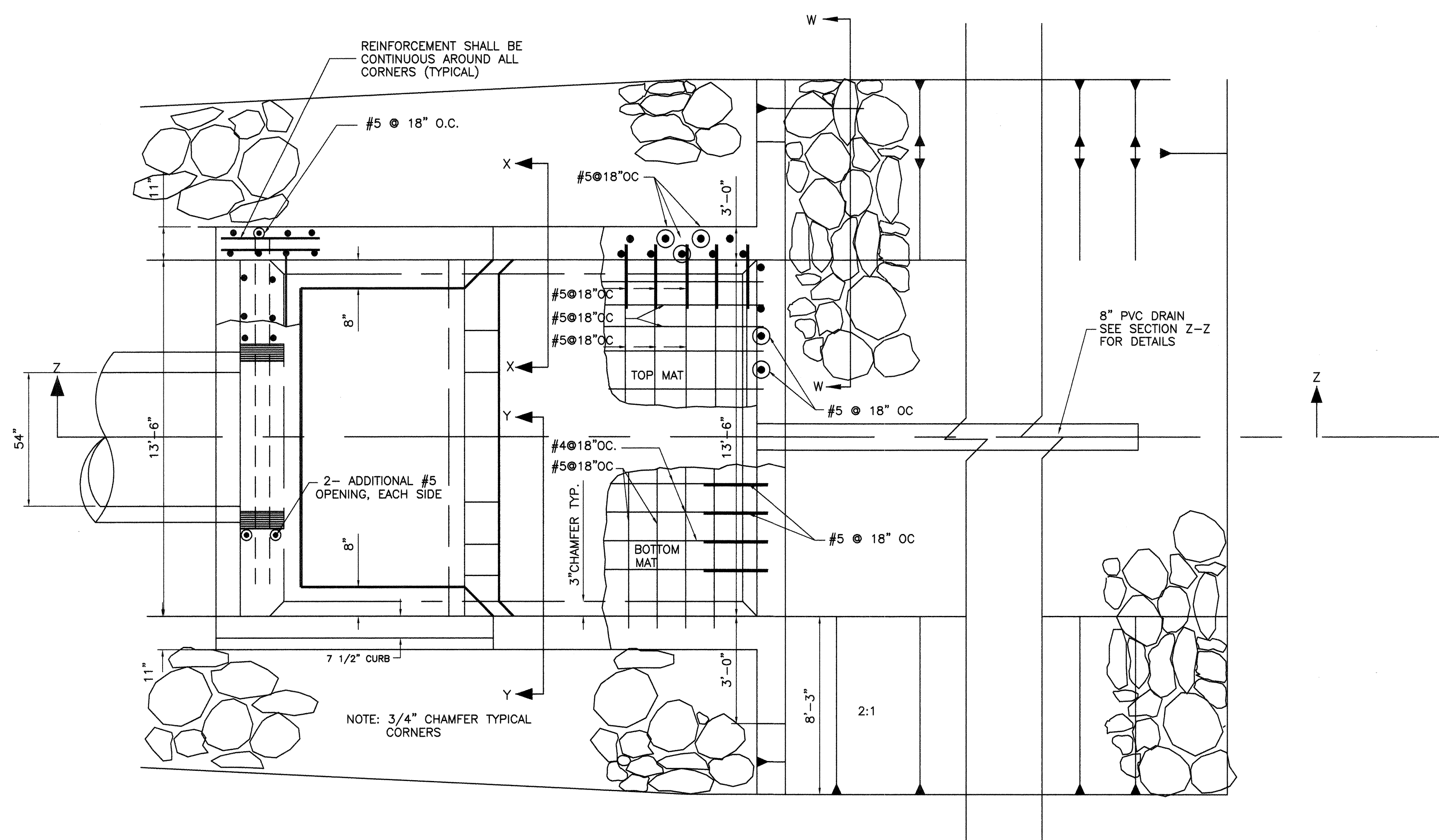
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Guy C. Jackson NMPE#13289 Date 3/3/98



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL ENERGY DISSIPATOR DETAILS			
APPROVALS	ENGINEER	APPROVALS	ENGINEER
DRC Chairman	Water	DRC Chairman	Water
Transportation	Waste Water	Transportation	Waste Water
Hydrology		Hydrology	
Parks & Rec.		Parks & Rec.	
DRAWING NO.	541481	MAP NO.	C-20
SHEET	17	OF	19

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE
JEFF MORITSEN & ASSOC.	5/95	A STANDARD A.C.S. BRASS TABLET STAMPED "C21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. THE STATION IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LOS ANGELES DR. N.E. (PRESENTLY PASO DEL NORTE) AND HOLBROOK ST. N.E. ELEVATION = 5634.65 (M.S.L.D.)	CONTRACTOR J.R. Hale	WORKMANSHIP BY Aldrich Surveying	DATE 6/97
				FIELD ACCEPTANCE BY BPLW	DATE 7/97
				DRAWING BY BPLW	DATE 12/97
				CORRECTED BY BPLW	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				NO.	DATE



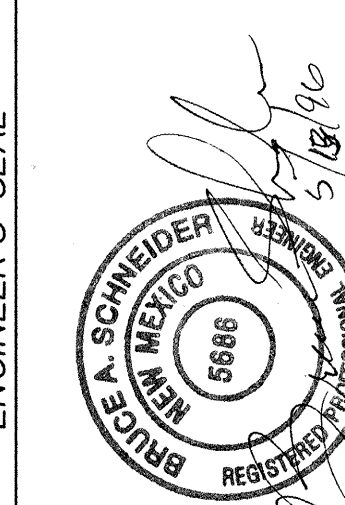
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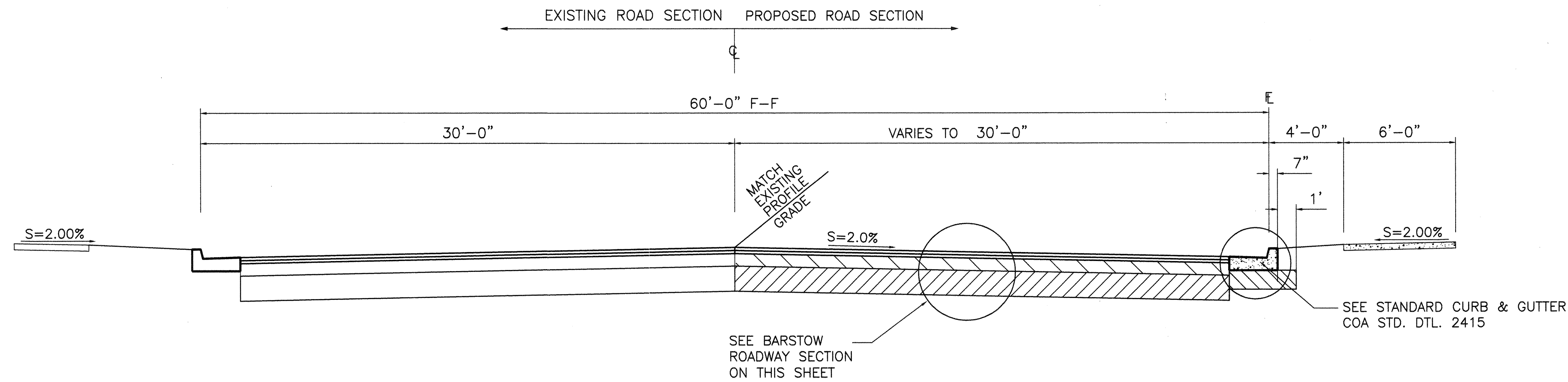
Guy C. Jackson NMPE#13289 **3/3/98** Date

BPLW		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL ENERGY DISSIPATOR DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology					
Parks & Rec.					
DRAWING NO.	541481	MAP NO.	C-20	SHEET	18 OF 19

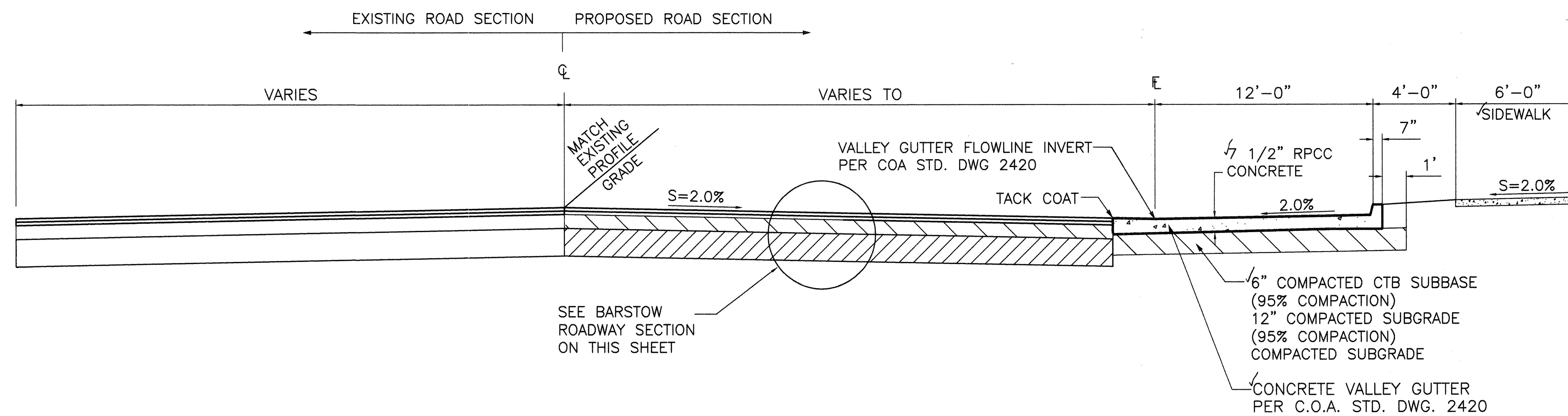
SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
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	JEFF MORTENSEN & ASSOC.	5/95		ALDRICH SURVEYING	6/97	ALDRICH SURVEYING	6/97	
				DESIGNED BY	DATE	DESIGNED BY	DATE	
				CHECKED BY	DATE	CHECKED BY	DATE	
				RECORDED BY	DATE	RECORDED BY	DATE	
				NO.		NO.		



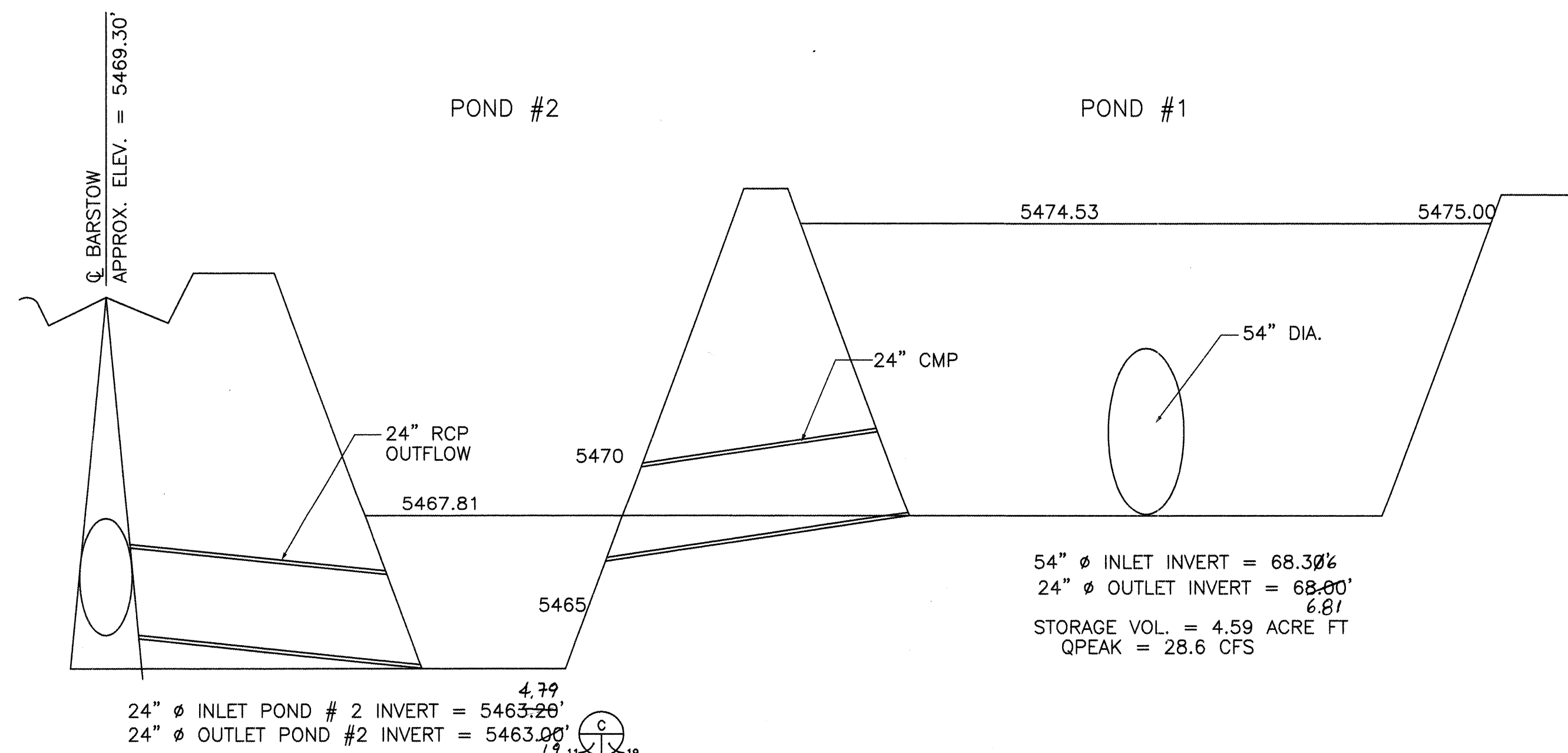
035DRC:18 5/96



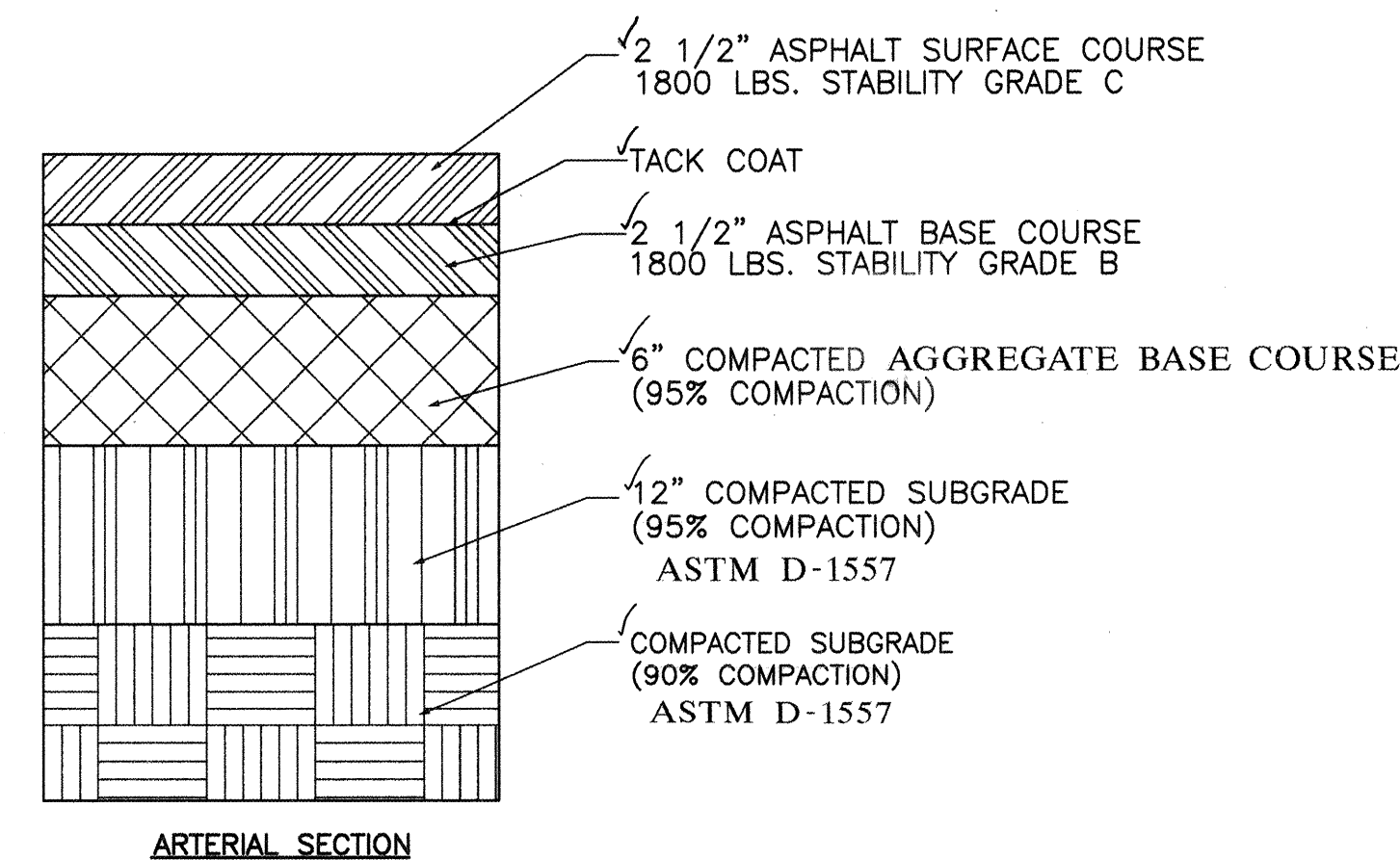
BARSTOW ROADWAY SECTION A-A



BARSTOW ROADWAY SECTION B-B



SECTION THROUGH PONDS



BARSTOW ASPHALT CONCRETE PAVEMENT SECTION

NOTE: THE PAVEMENT ABOVE MATCHES EXISTING SECTIONS AS SHOWN ON RECORD DRAWINGS FOR CITY PROJECT #3355

RECORD DRAWING

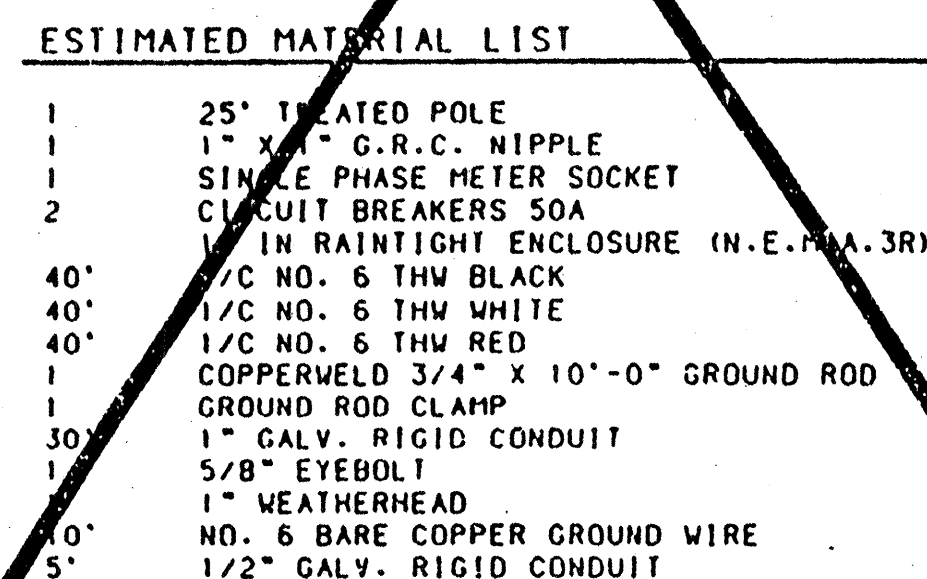
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Guy C. Jackson NMPE#13289

3/3/96 Date

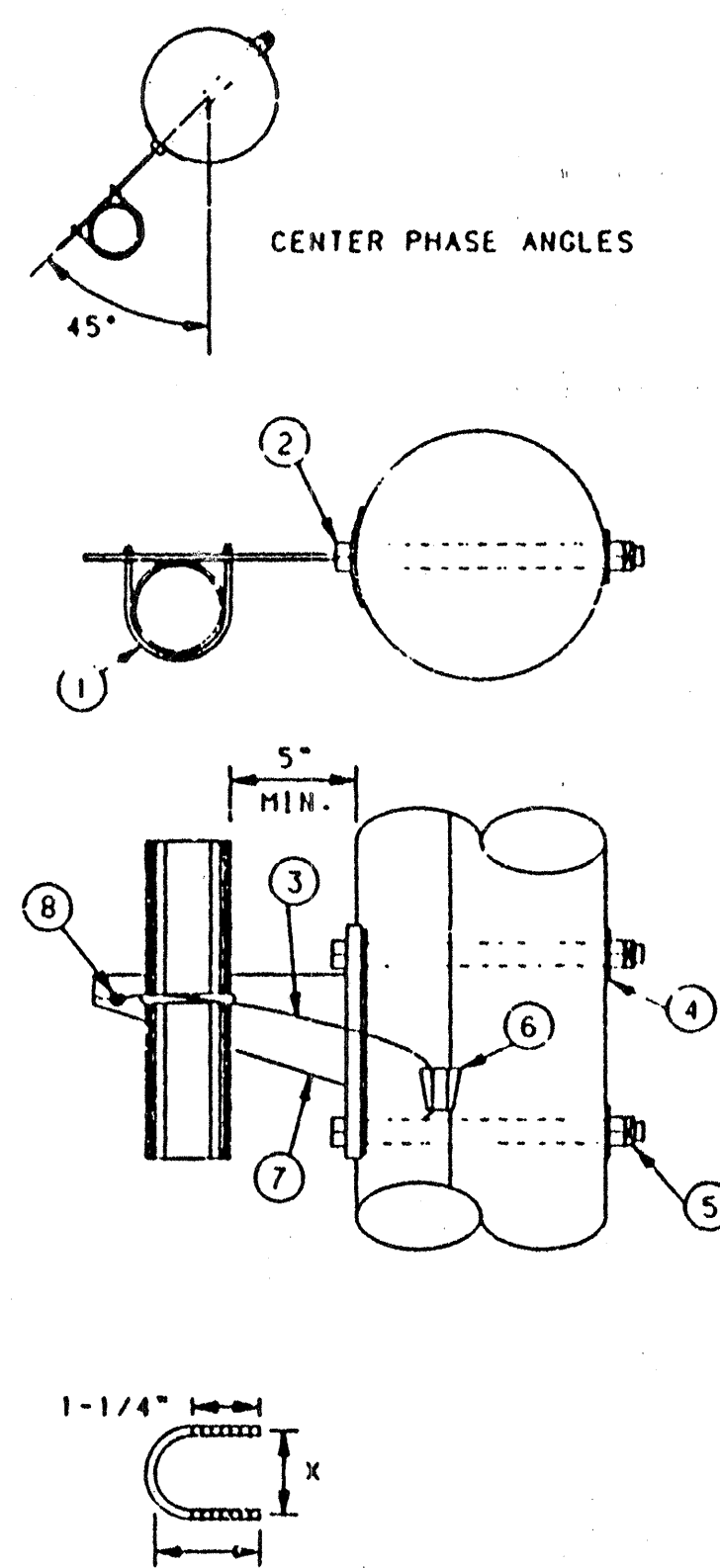


BPLW CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		BPLW	
TITLE: NORTHEAST HEIGHTS MIDDLE SCHOOL TYPICAL SECTIONS			
APPROVALS	ENGINEER	APPROVALS	ENGINEER
DRC Chairman	Water	Water	Water
Transportation	Waste Water	Waste Water	Waste Water
Hydrology			
Parks & Rec.			
DESIGNED BY: DAA	DATE: 5/96	CHECKED BY: BAS	DATE: 5/96
DRAWN BY: NEF	DATE: 5/96	CHECKED BY: BAS	DATE: 5/96
DRAWING NO. 541481	MAP NO. C-20	SHEET 19	OF 19

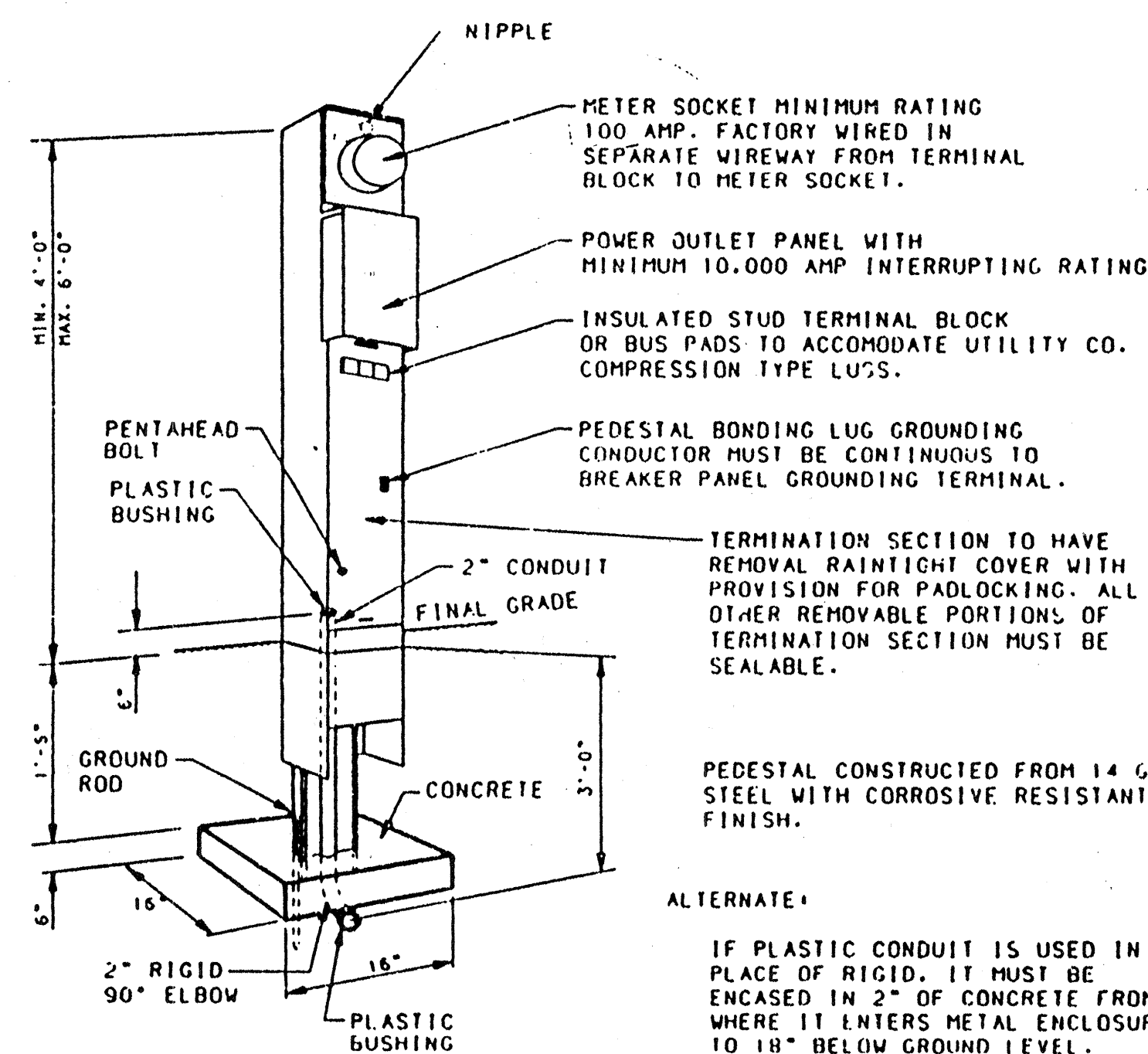


(SERVICE POLE - SIGNAL)
NO SCALE

1. ALL SIGNAL AND LIGHTING SERVICE DETAILS SHALL BE IN ACCORDANCE WITH THE PNM ELECTRIC SERVICE GUIDE, LATEST EDITION.
2. TRAFFIC SIGNAL ELECTRICAL SERVICE PEDESTAL (SERVICE POLE - SIGNAL - FOR UNDERGROUND SERVICE) INCLUDES METER PEDESTAL, UNIVERSAL SUPPORT BRACKETS, AND SINGLE PHASE PEDESTAL METERING.
3. PROVIDE ONE 50A, 1P 120V CIRCUIT FOR CONTROLLER SIGNALS AND ONE 50A, 1P CIRCUIT FOR DUPLEX CONVENIENCE OUTLET IN CONTROLLER. (USE A 15A FUSE TO PROTECT THIS CIRCUIT.)
4. CONDUIT SIZES, FITTINGS AND SERVICE WIRING MAY VARY (SEE PLANS FOR SPECIFIC REQUIREMENTS).



NO SCALE



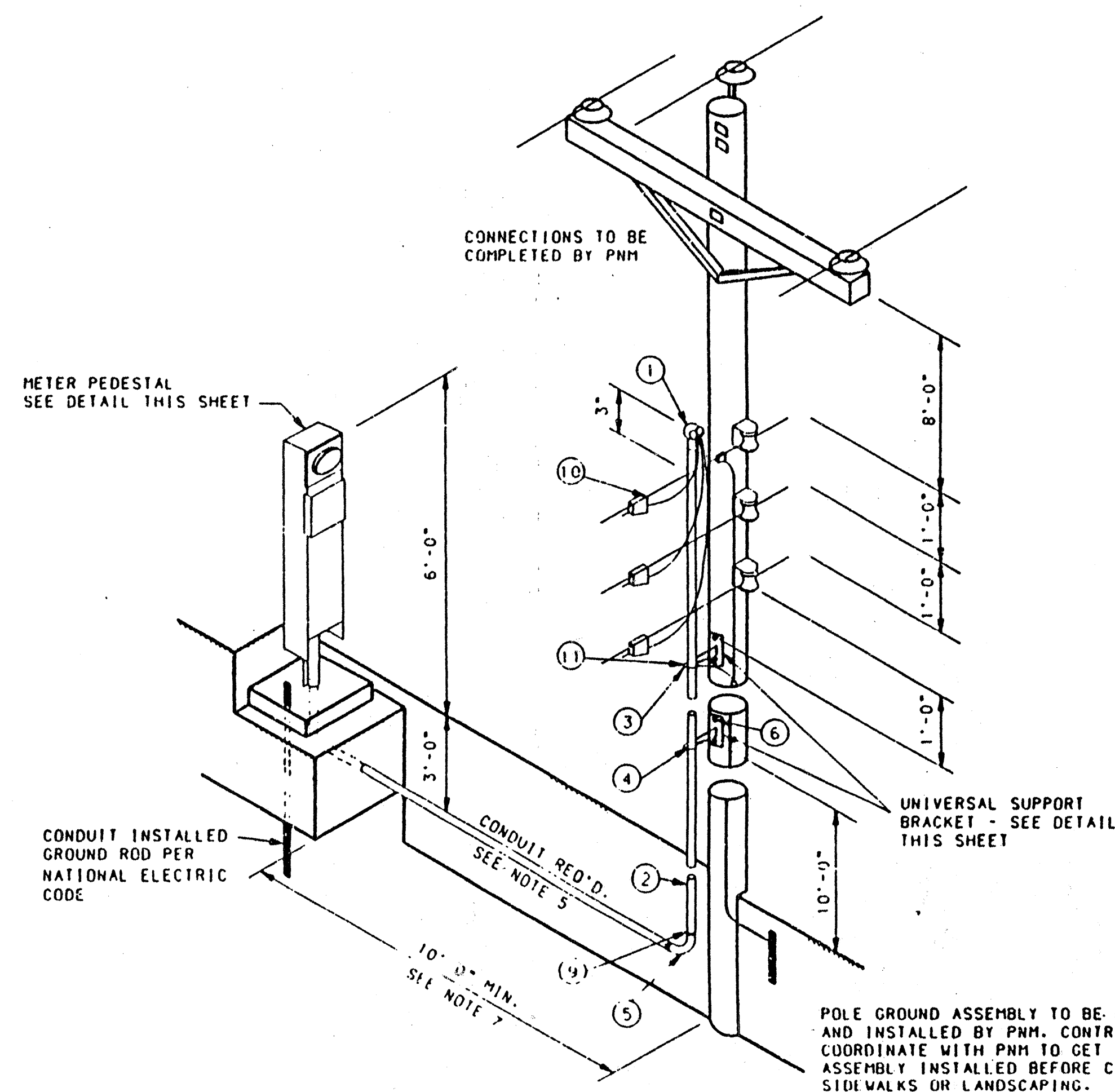
NO SCALE

NO SCALE

①	1	U BOLT
②	2	5/8" MACHINE BOLTS
③	3*	#4 SOL CU WIRE
④	2	2-1/4" SQUARE WASHER
⑤	2	5/8" MF LOCKNUT
⑥	1	LINE TAP
⑦	1	SUPPORT BRACKET
⑧	1	GROUNDING LUG

1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
2. BEAKET SUITABLE FOR TWO 2", OR ONE 4" CONDUIT.
3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

SIZE CONDUIT	X	Y
2"	2-7/8"	3-5/8"
4"	5"	5-3/4"



1. WEATHERHEAD SHALL BE 3" ABOVE NEUTRAL.
2. NO STANDOFF BRACKET REQUIRED IF CONDUIT IS 1" OR LESS. UP TO 2 CONDUITS 1" OR LESS MAY BE STRAPPED TO THE POLE.
3. CONTACT PNM CUSTOMER SERVICES FOR POLE QUADRANT.
4. ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED OR IMC.
5. ALL UNDERGROUND CONDUIT EXCEPT TYPE DB PVC. SCHEDULE 40 PVC, RIGID GALVANIZED OR IMC MUST BE CONCRETE ENCASED.
6. RISER BRACKET ASSEMBLY MUST HAVE PROVISIONS FOR GROUNDING BY PNM.
7. CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

①	1	2" CLAMP TYP WEATHER HEAD
②	40'	2" GALVANIZED CONDUIT
③	2	UNIVERSAL SUPPORT BRACKET
④	2	2" PIPE STRAP KIT
⑤	1	2" GALVANIZED ELBOW
⑥	4	5/8" MACHINE BOLT
⑦	4	5/8" LOCKNUT
⑧	4	2-1/4" SQUARE WASHER
⑨	1	2" GALVANIZED COUPLING
⑩	3	LINE TAP
⑪	2	#10-#2 GROUND LUG
⑫	1	GROUND ASSEMBLY
	50'	1/C NO. 6 THW BLACK
	50'	1/C NO. 6 THW WHITE
	50'	1/C NO. 6 THW RED

NO SCALE

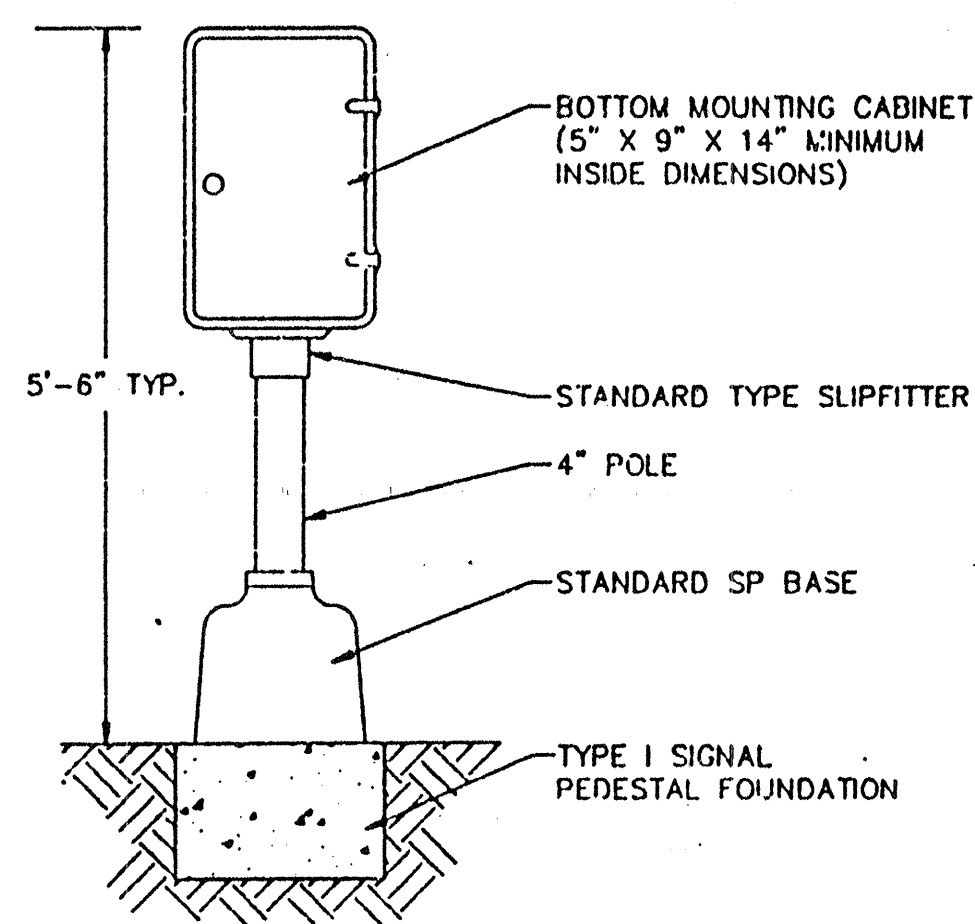
RECORD DRAWING

[illegible]

CITY OF ALBUQUERQUE			
PUBLIC WORKS			
ENGINEERING			
TITLE: SCHOOL FLASHING BEACON DESIGN PROJECT			
NORTHEAST HEIGHTS MIDDLE SCHOOL			
TRAFFIC SIGNAL AND LIGHTING ELECTRICAL SERVICE DETAILS			
APPROVALS	ENGINEER	DATE	
DRC CHAIRMAN			WATER
TRANSPORTATION			WASTE WATER
HYDROLOGY			TRAFFIC
PROJECT NUMBER 541481		MAP NO. C-20	SHEET 19A OF 19

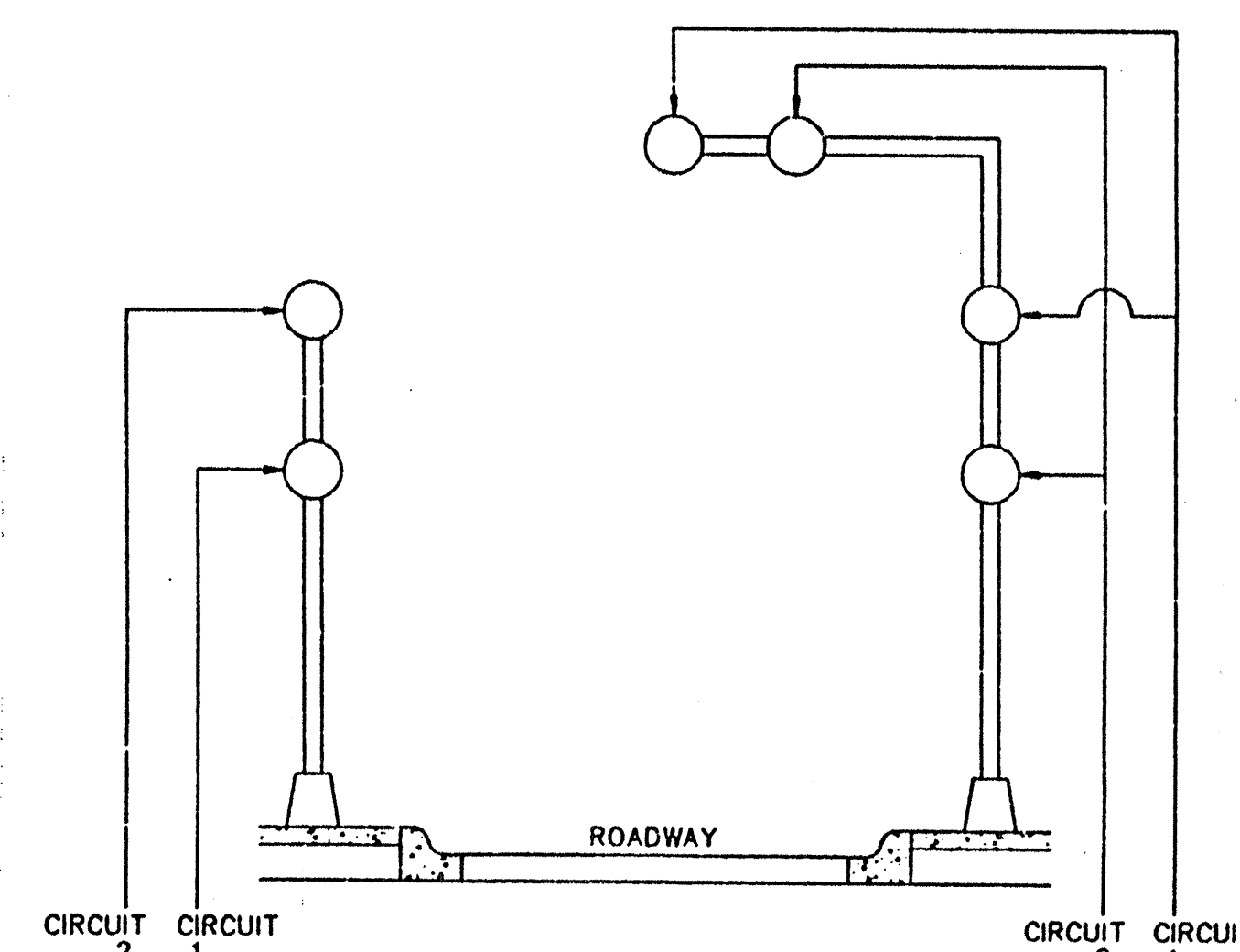


TYPICAL FLASHING BEACON CABINET
ASSEMBLY (UNSIGNALIZED INTERSECTION)

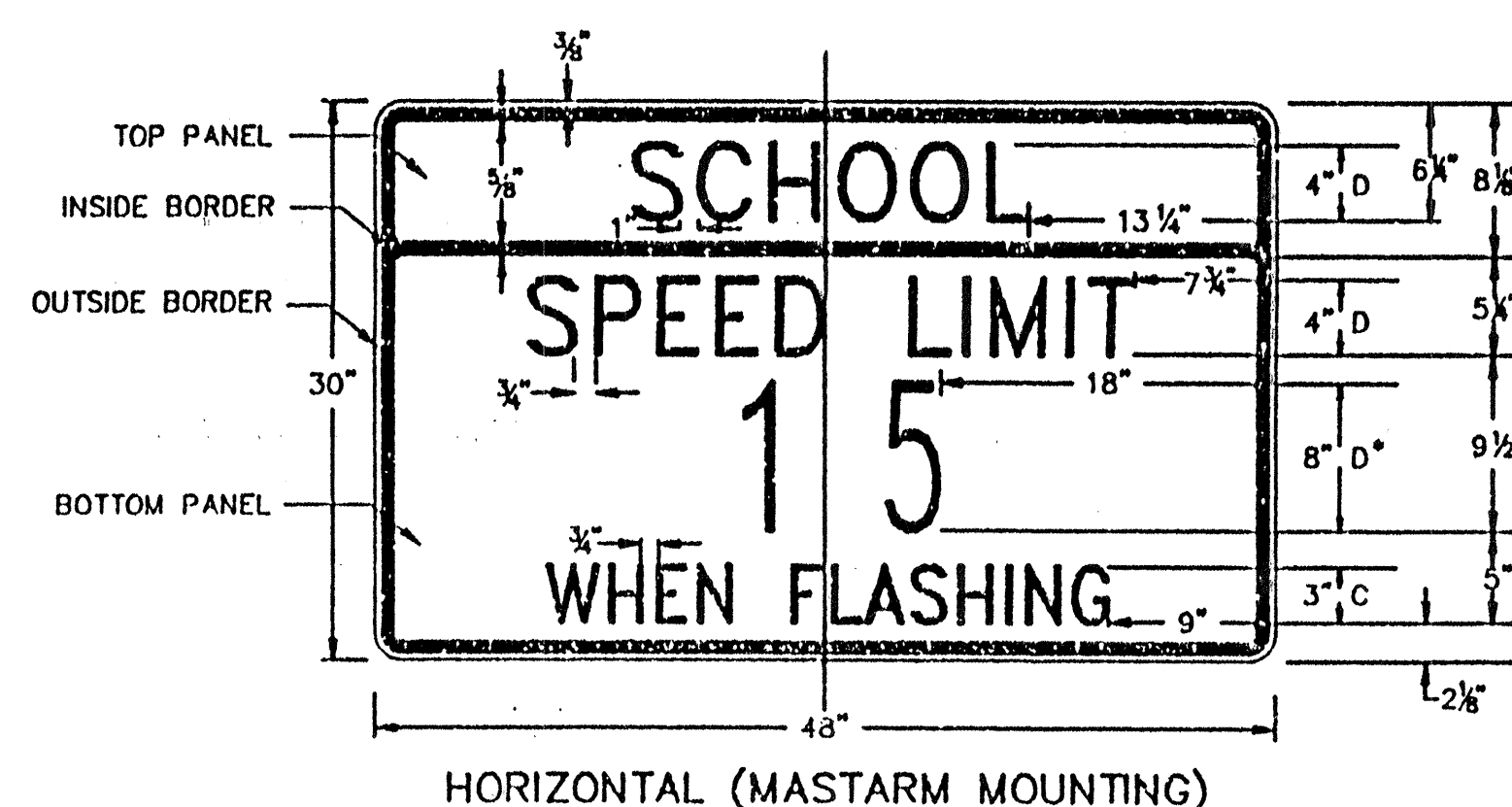
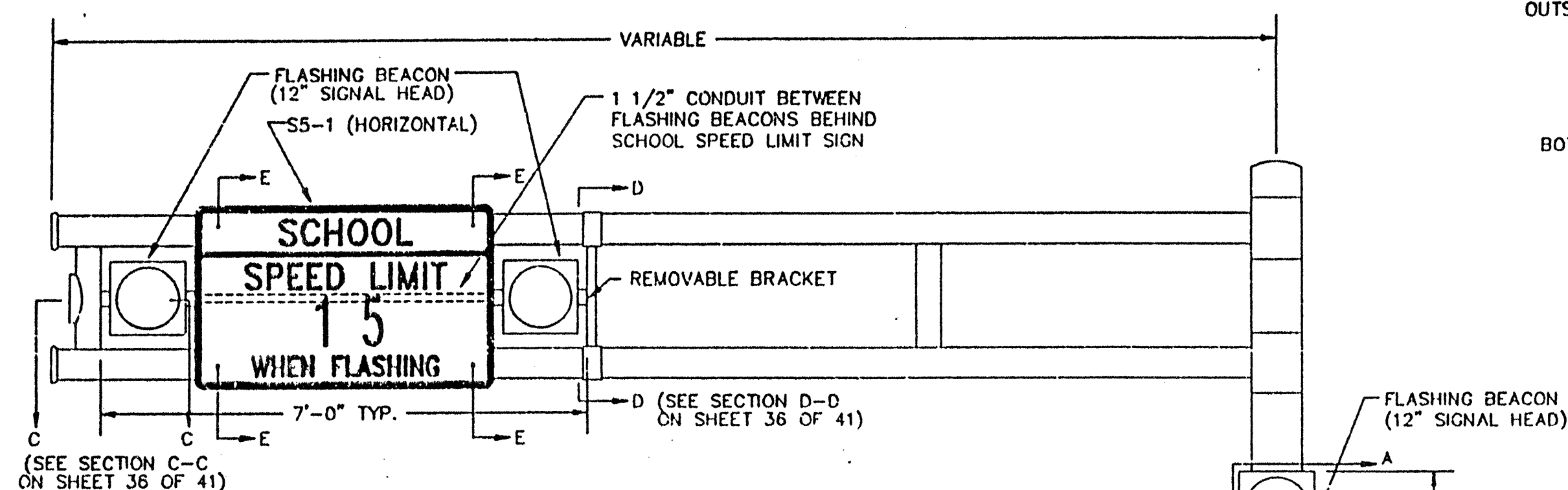


<u>CONDUCTOR</u>	<u>COLOR</u>	<u>FUNCTION</u>
1.	BLACK	SPARE
2.	WHITE	NEUTRAL
3.	RED	CIRCUIT 1
4.	YELLOW	CIRCUIT 2
5.	GREEN	GROUND

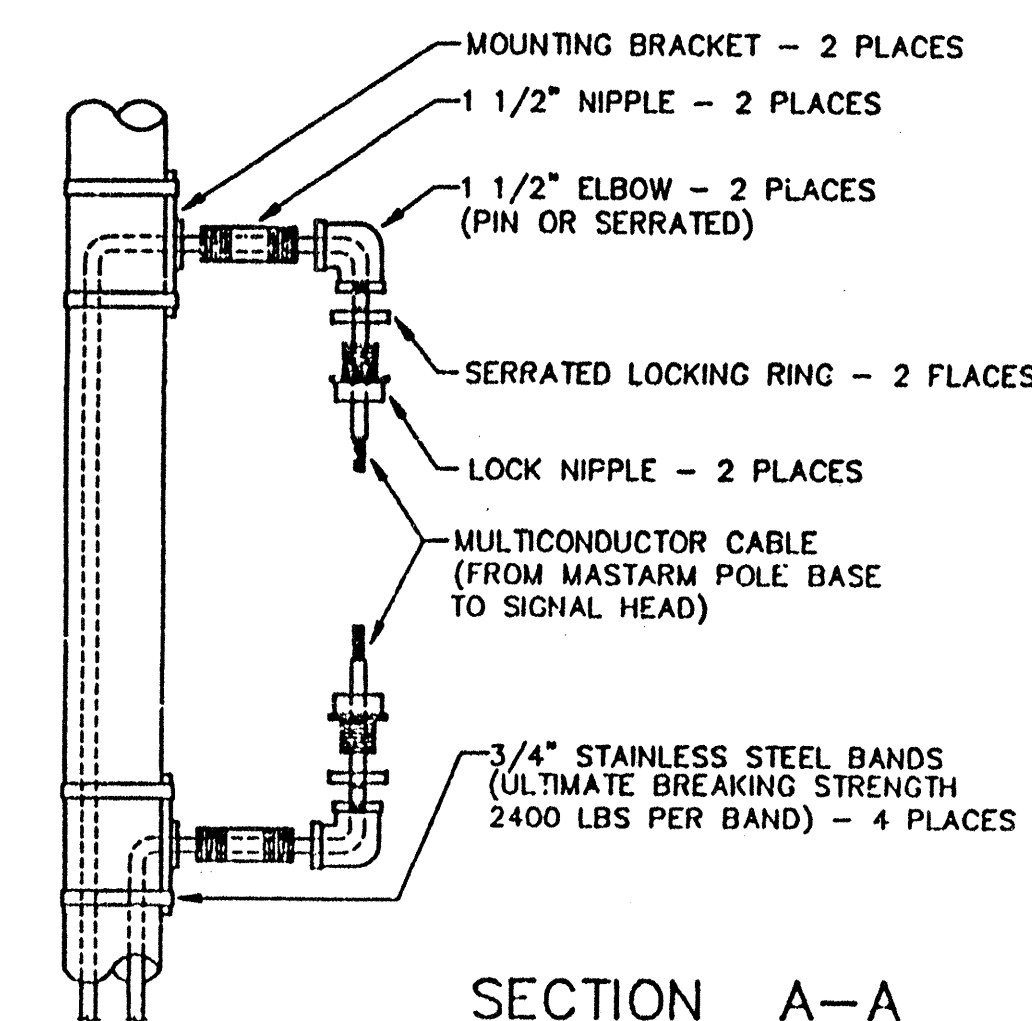
TYPICAL 5 CONDUCTOR CABLE FUNCTION CHART



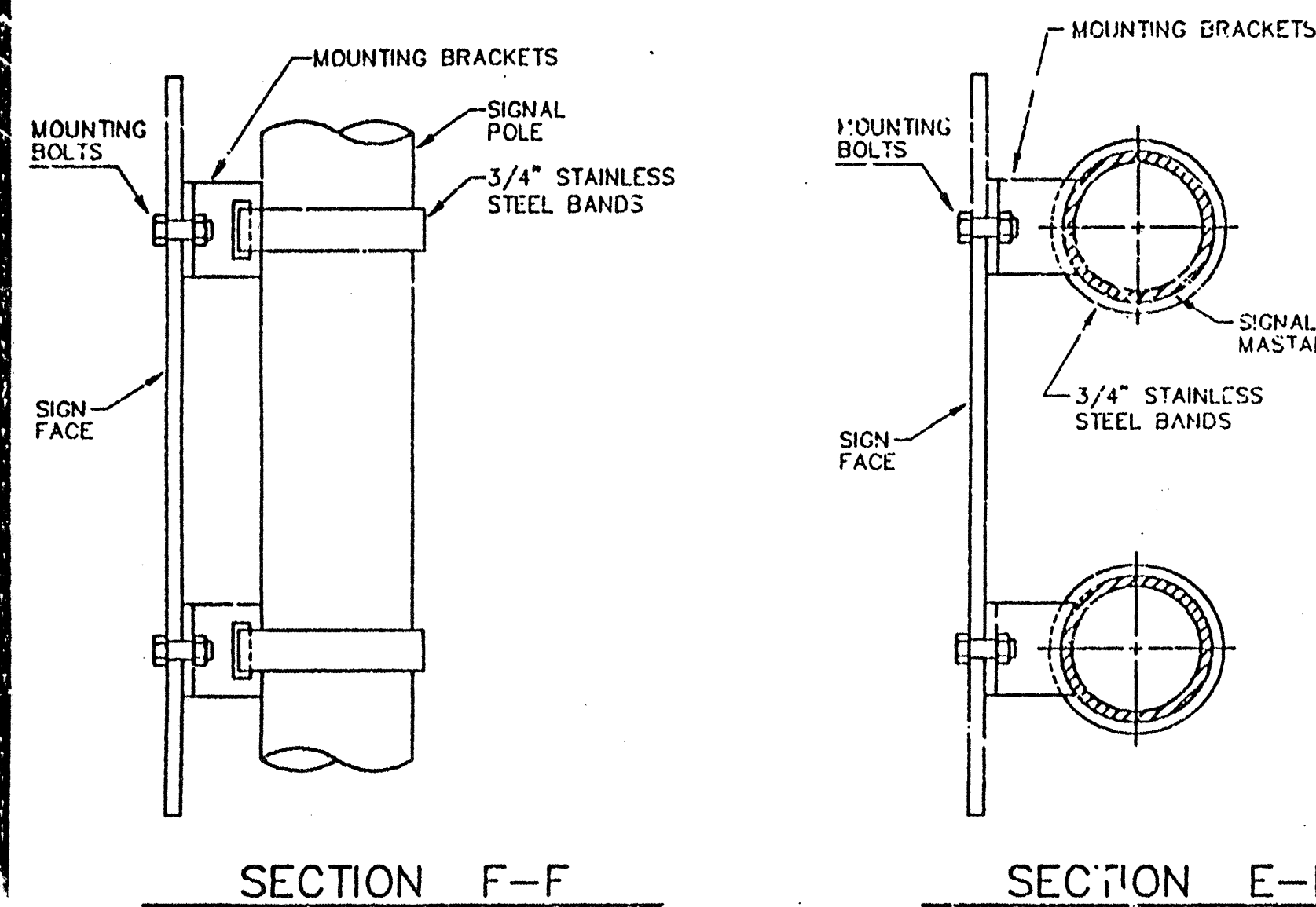
TYPICAL WIRING DIAGRAM FOR
DUAL-CIRCUIT FLASHER OPERATION



NOTE: TYPICAL DETAIL SHOWING ARRANGEMENT AND GENERAL APPEARANCE OF SIGNAL HEADS, SCHOOL SPEED LIMIT SIGN, AND SIGNAL POLE STANDARD. SEE SHEET 37 OF 41 FOR TRAFFIC SIGNAL PEDESTAL POLE DETAILS.



SECTION A-A

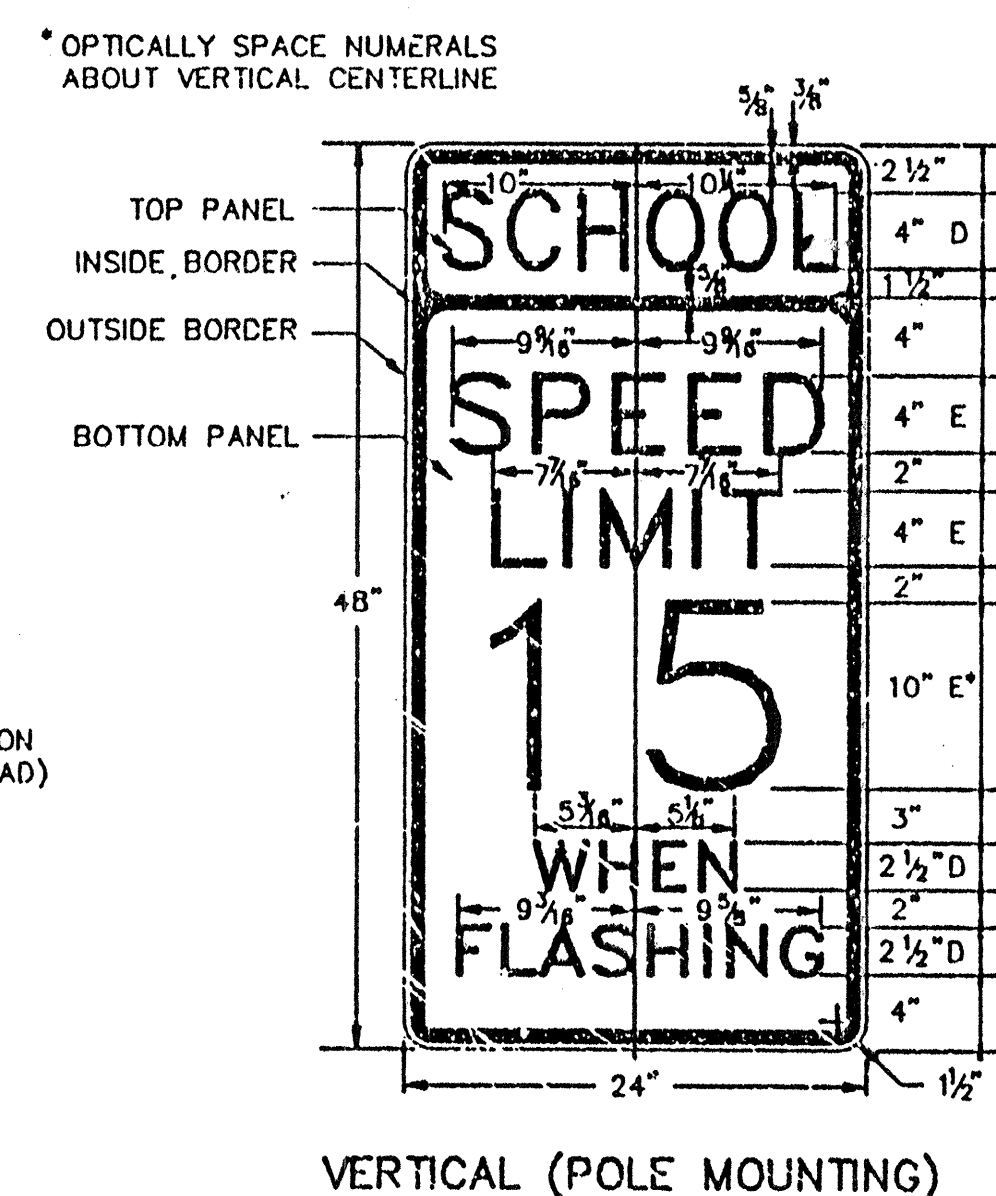


SECTION F-F

SECTION E-E

NOTE: TYPICAL DETAIL SHOWING ARRANGEMENT AND GENERAL APPEARANCE OF SIGNAL HEADS, SCHOOL SPEED LIMIT SIGNS, AND MASTARM STANDARD. SEE SHEET 36 OF 41 FOR TRAFFIC SIGNAL MASTARM DETAILS.

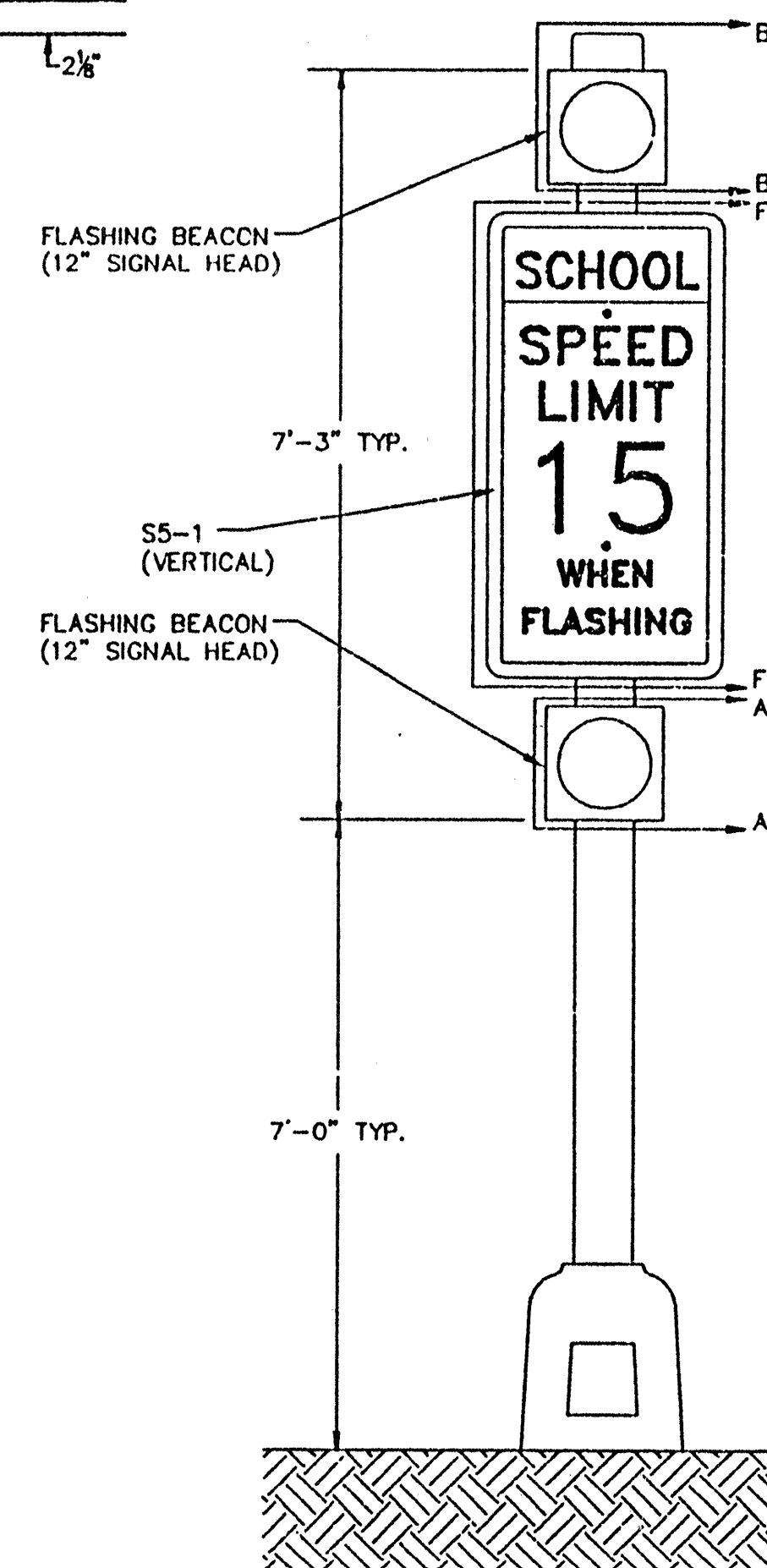
FLASHING BEACON MASTARM DETAIL



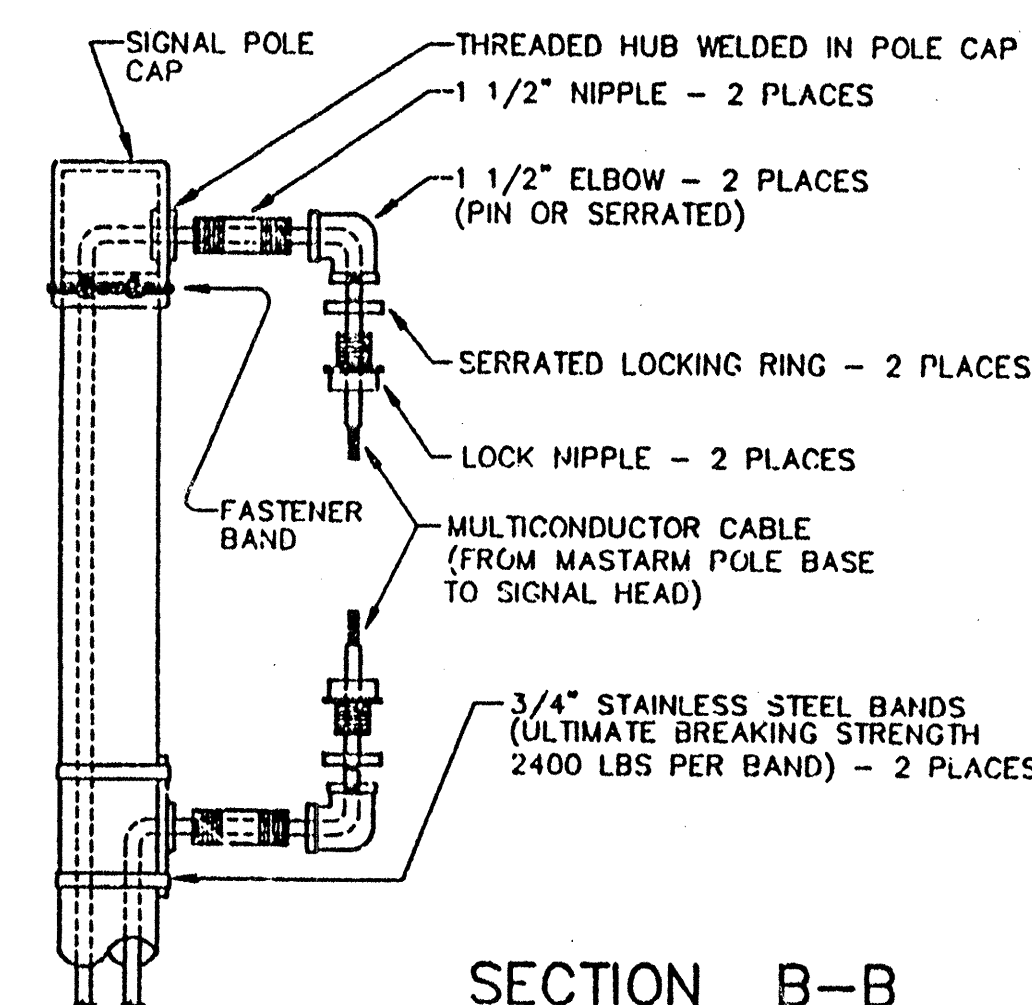
VERTICAL (POLE MOUNTING)

COLORS	
LEGEND:	BLACK(NON-REFLECTIVE)
TOP PANEL.	YELLOW
BOTTOM PANEL:	WHITE
OUTSIDE BORDER:	WHITE
INSIDE BORDER:	BLACK

S5-1
SCHOOL SPEED LIMIT SIGN DETAIL

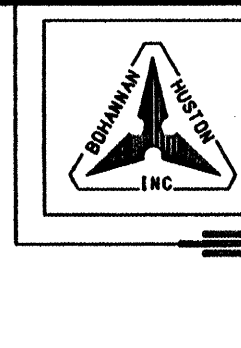


FLASHING BEACON SIGNAL POLE INSTALLATION

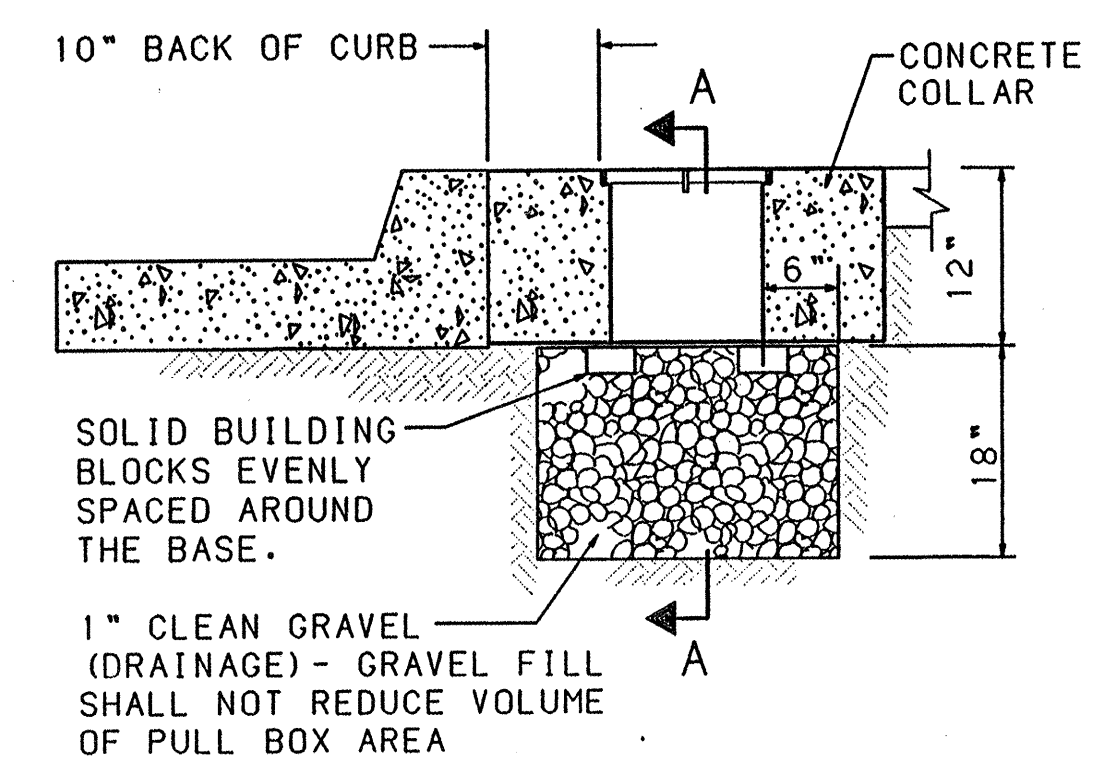


SECTION B-B

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: SCHOOL FLASHING BEACON DESIGN PROJECT NORTHEAST HEIGHTS MIDDLE SCHOOL MISCELLANEOUS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DIC CHAIRMAN			TER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAFFIC		
PROJECT NUMBER 541481		MAP NO. C-20		SHEET 19B OF 19	

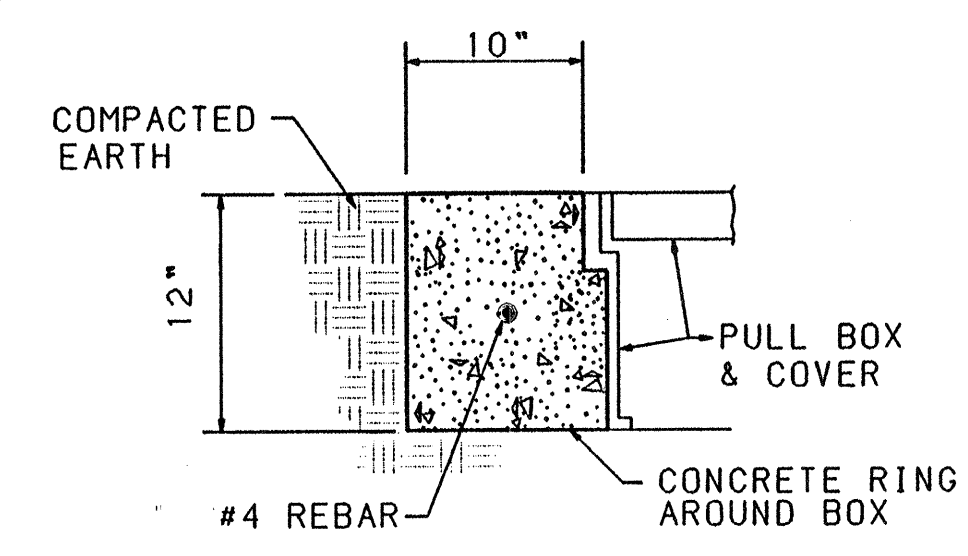


F.H.W.A. REGION NO. 6	SHEET NO.
NEW MEXICO PROJECT NO.	
PROJECT NUMBER	S-103

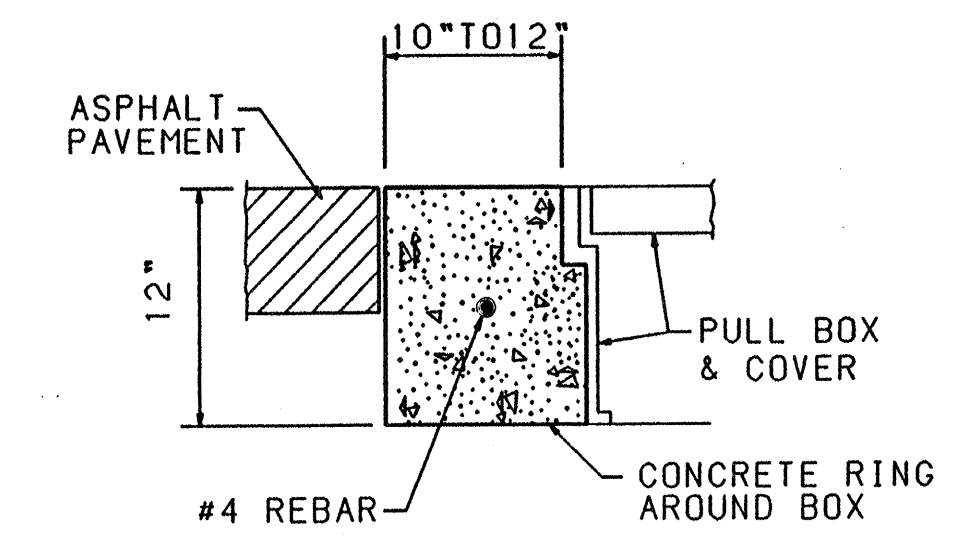


TYPICAL PULLBOX INSTALLATION

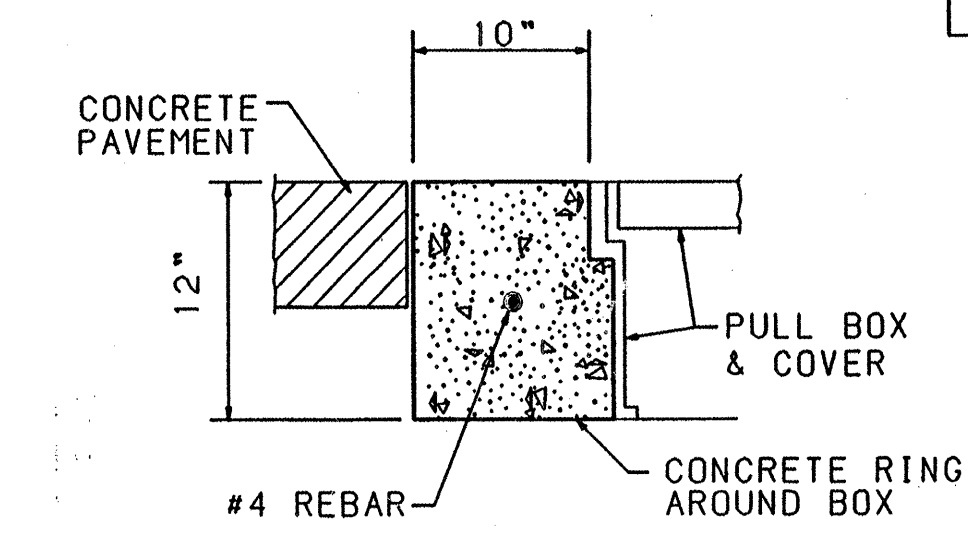
NOTE: SEE "CONCRETE COLLAR DETAILS"



IN COMPACTED EARTH



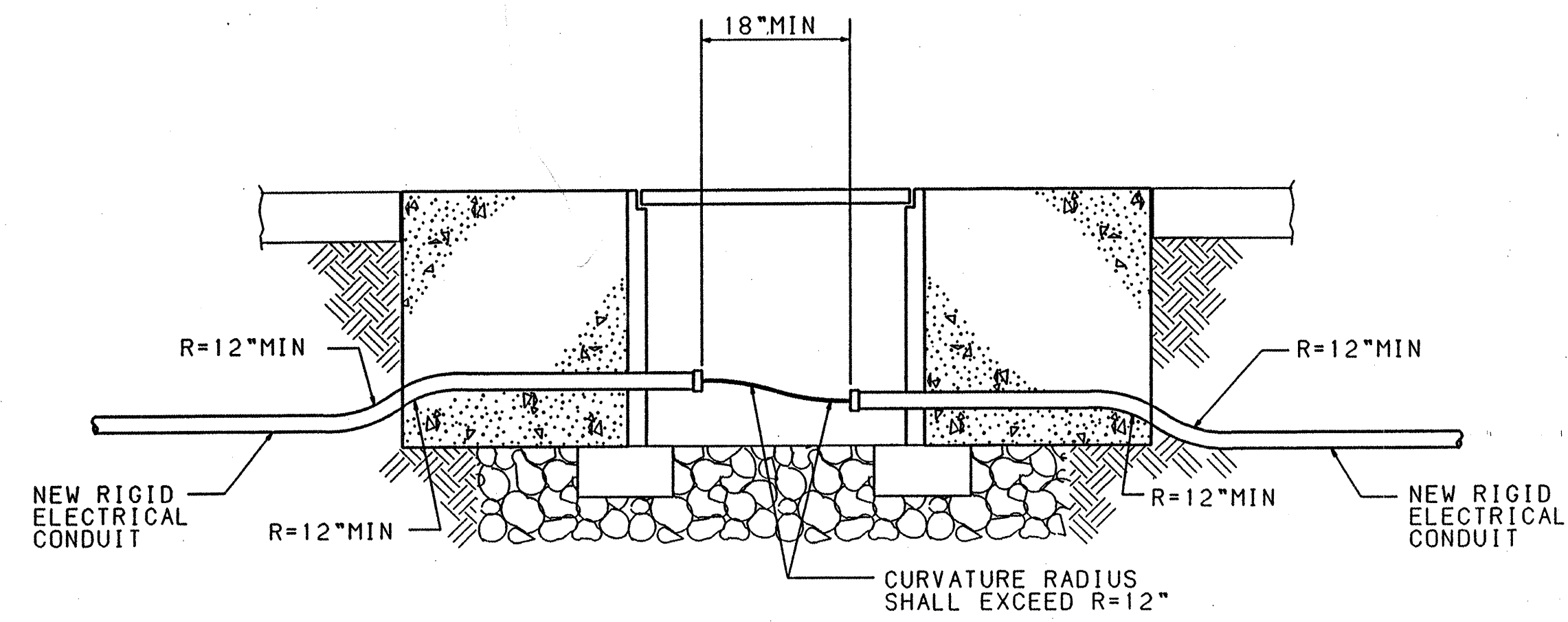
IN ASPHALT PAVEMENTS



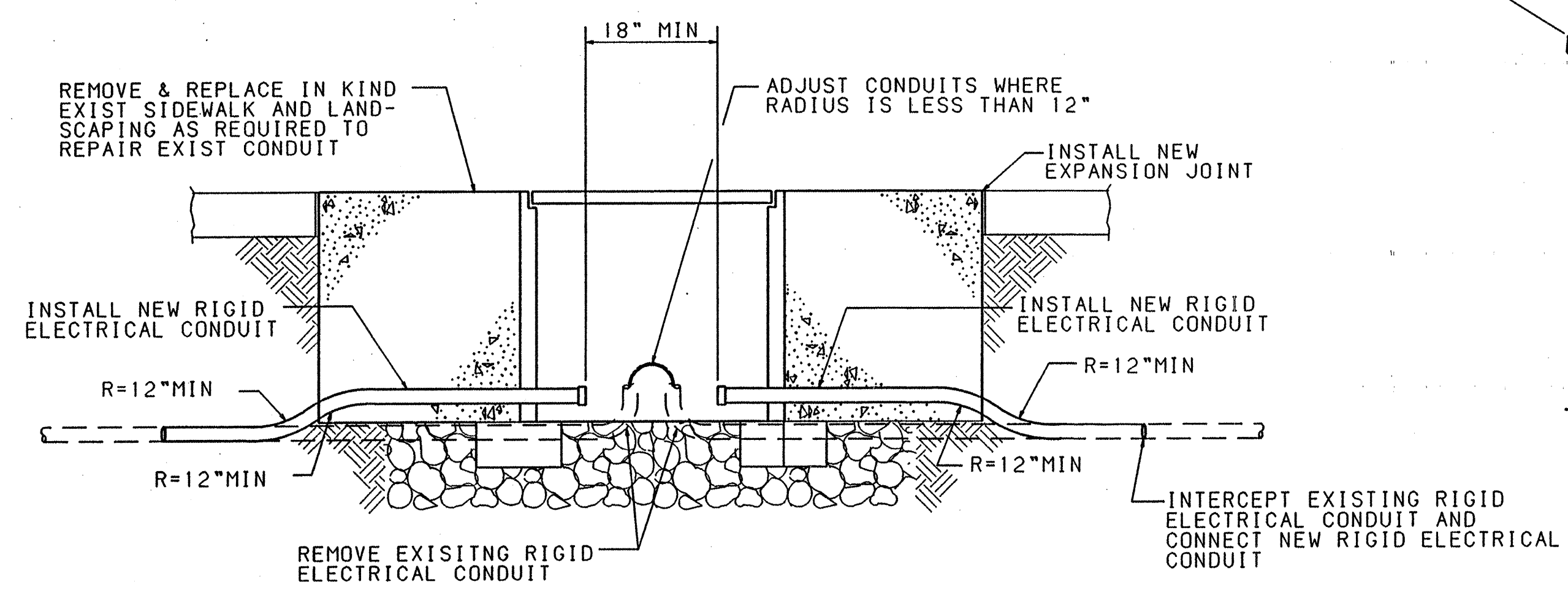
IN CONCRETE PAVEMENTS

CONCRETE COLLAR DETAILS

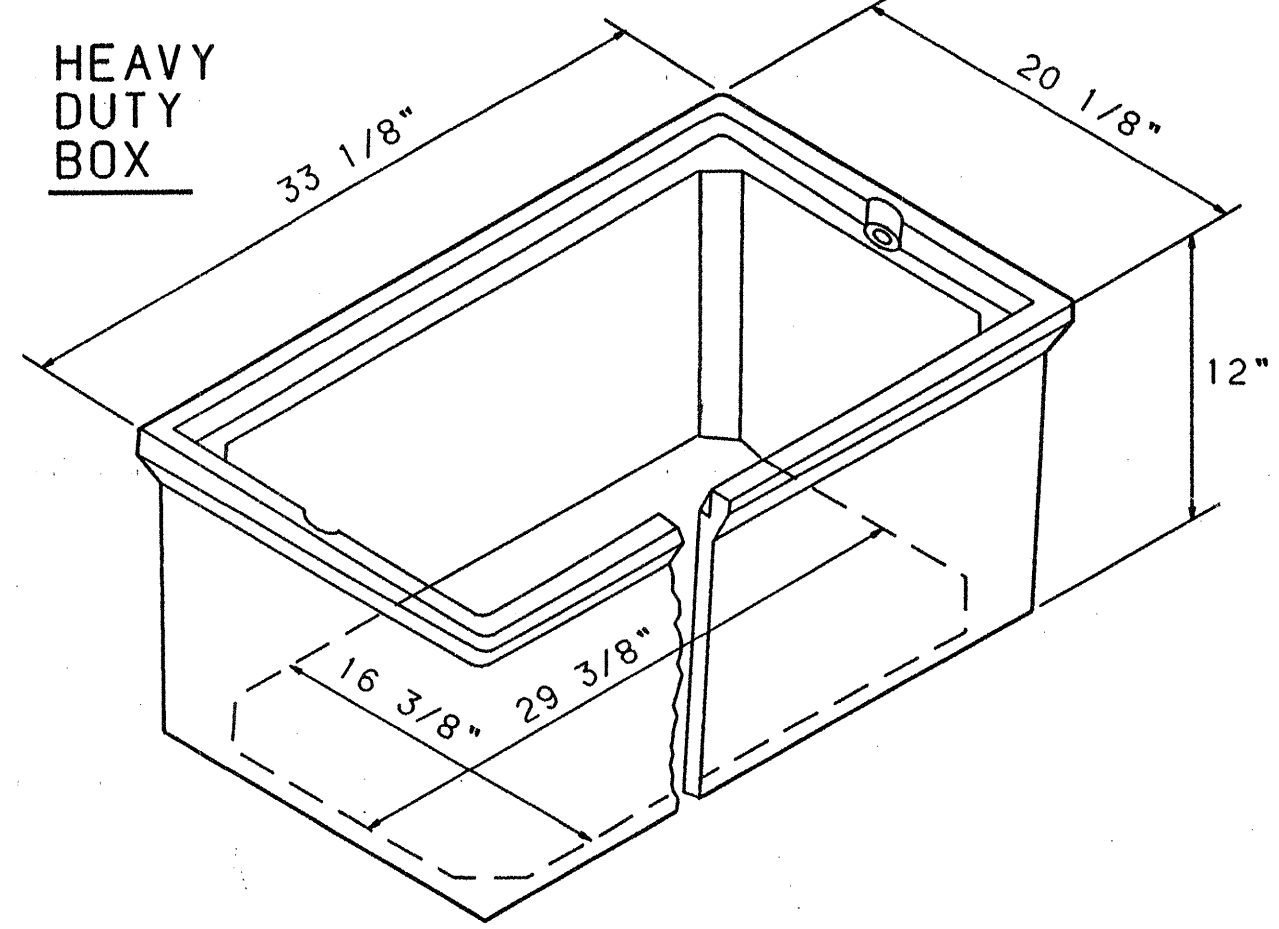
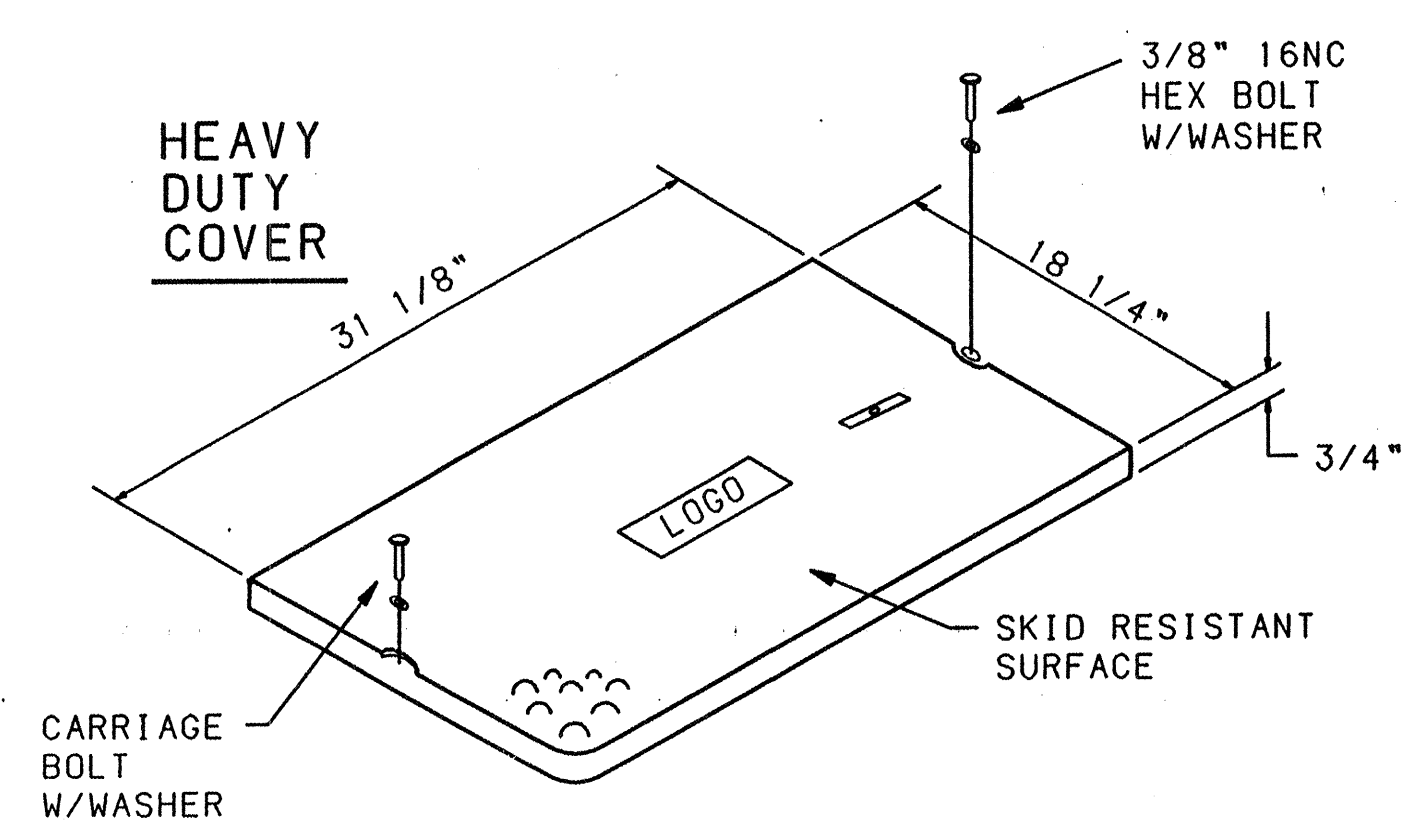
NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE TO THE PULL BOX BID ITEMS.



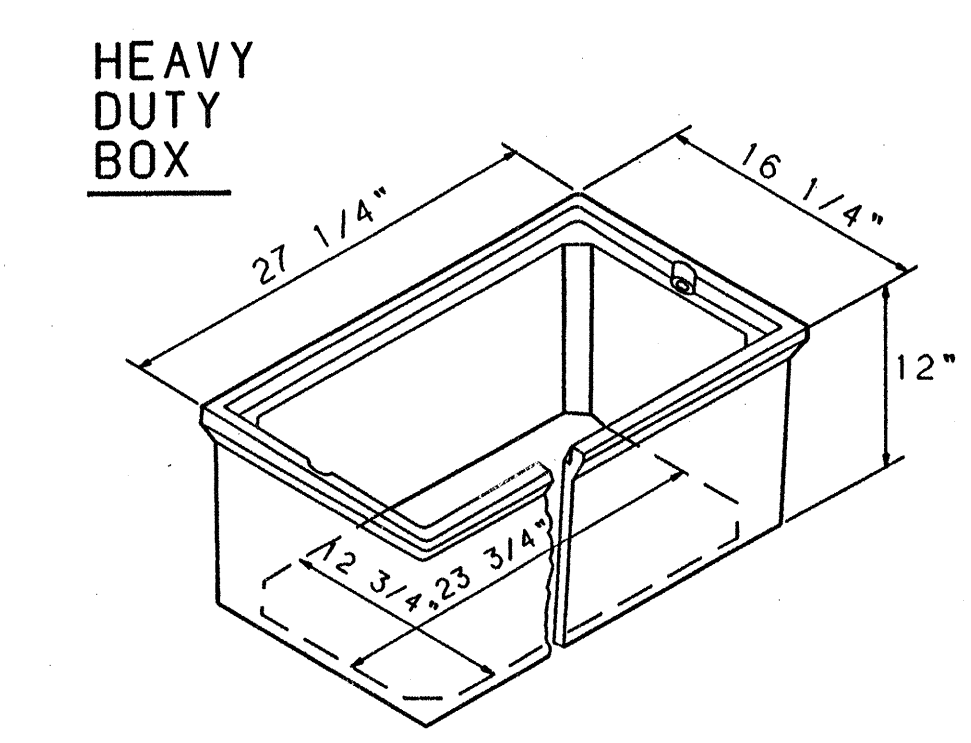
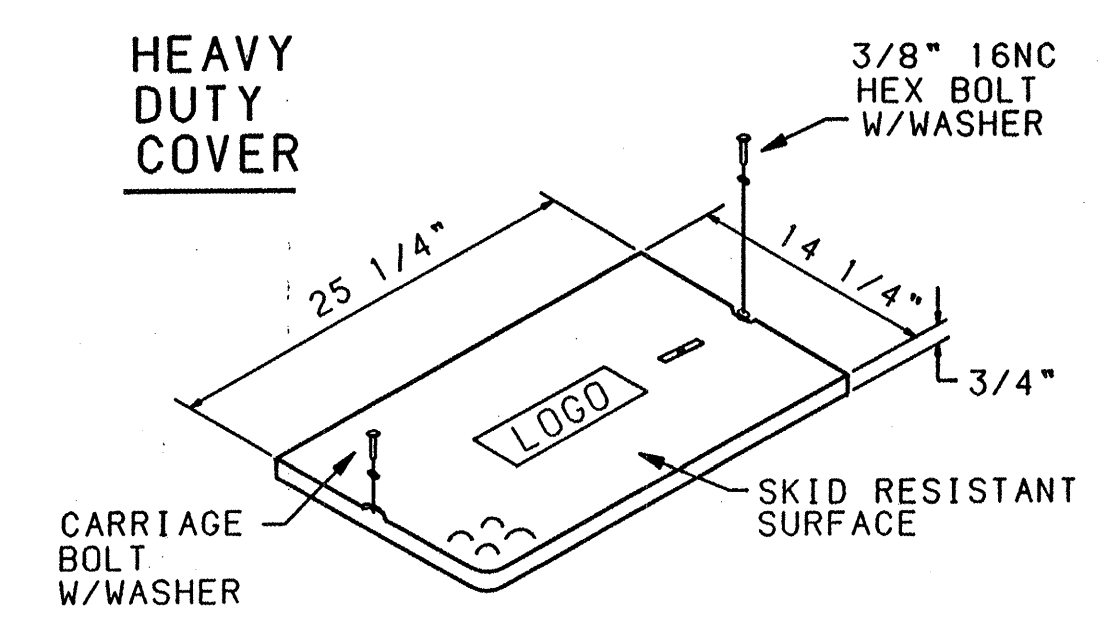
TRAFFIC SIGNAL PULLBOX (TYPICAL) NEW CONDUIT INSTALLATION



TRAFFIC SIGNAL PULLBOX (TYPICAL) RETROFIT INSTALLATION



LARGE PULL BOX



STANDARD PULL BOX

PULL BOX DETAILS

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOXES AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH A HEAVY WEAVE FIBERGLASS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1700 PSI, FLEXURAL STRENGTH - 7500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 15,000 LBS. OVER A 10" SQUARE (150 PSI). NO CONCRETE OR STEEL COVERS WILL BE ACCEPTABLE.
3. ELECTRICAL PULL BOX (SMALL) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 12-7/8" X 12-7/8" X 3/4".

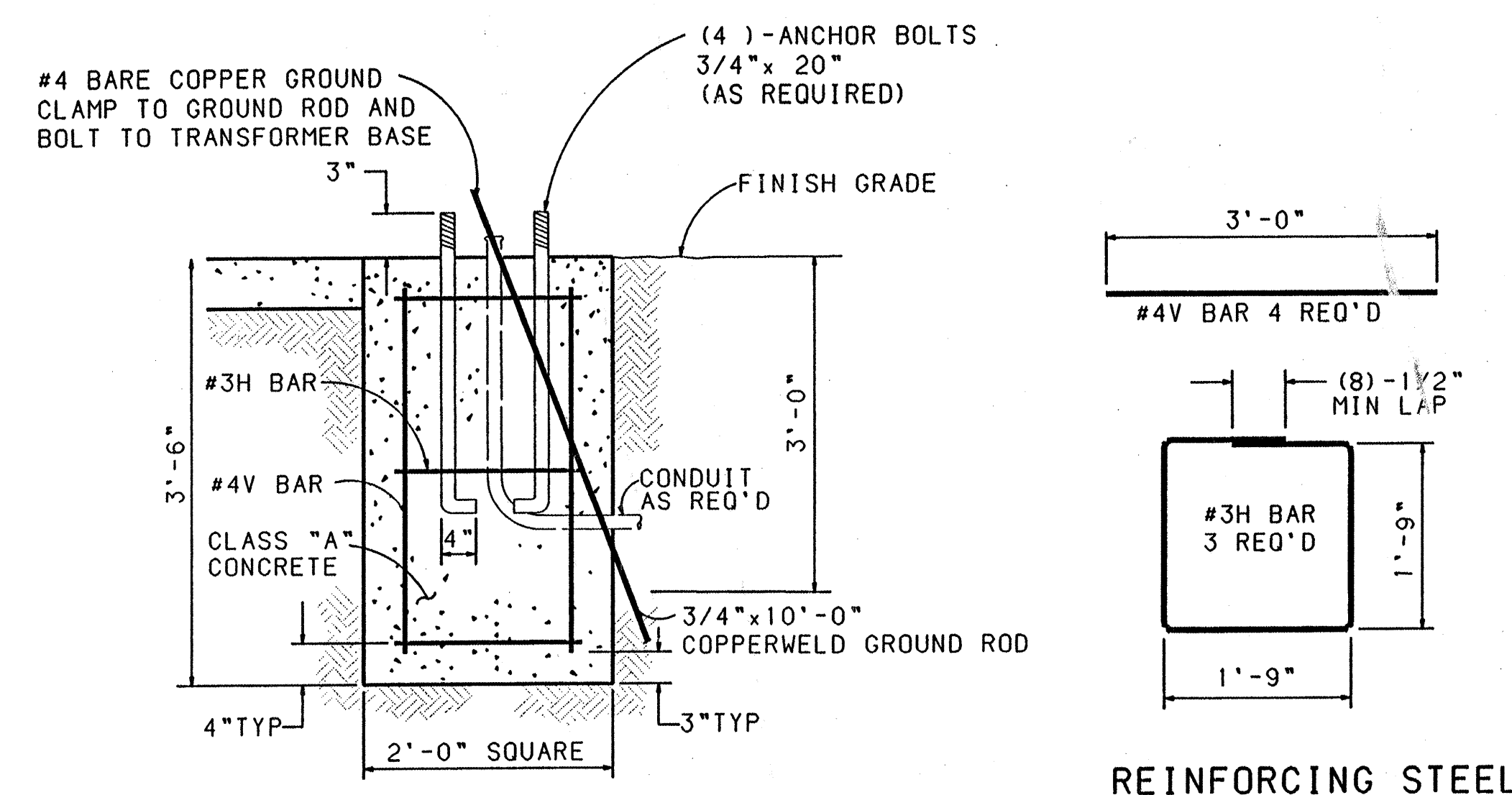
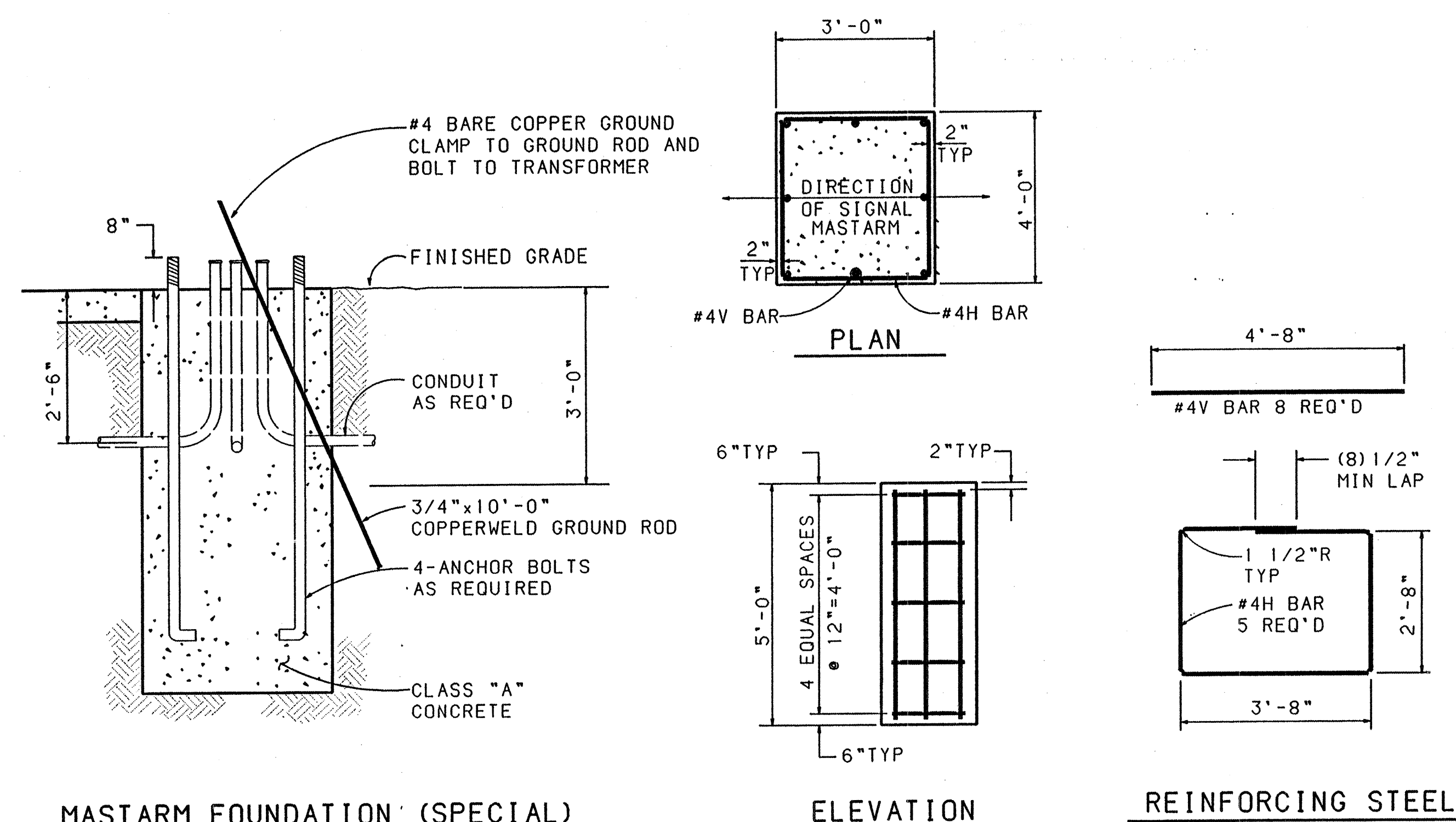
RECORD DRAWING

3			
2			
1	Record Drawing	12/97	MFD
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
NORTHEAST HEIGHTS MIDDLE SCHOOL
TRAFFIC DESIGN SECTION

PULL BOX DETAILS
ALBUQUERQUE



MASTARM FOUNDATION DETAILS-TYPE II & TYPE III STANDARDS

TYPES II & III - 15' TO 40' MASTARM LENGTH

PEDESTAL FOUNDATION DETAILS-TYPE I STANDARD

NOTES

1. ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
2. ALL GROUND RODS SHALL BE 3/4"x10'-0" ALL SIGNAL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFOR.
3. FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS.

ESTIMATED QUANTITIES

FOUNDATION	CLASS A CONC CUBIC YARDS	REINF BARS POUNDS
MASTARM - TYPES II & III (FOR 15 FT TO 40 FT MASTARM)	2.22	72
PEDESTAL POLE TYPE I	0.52	17
CONTROLLER CABINET TYPE P & R	0.88	--
SPLICE CABINET	0.52	17

(FOR CONTRACTORS INFORMATION ONLY)

RECORD DRAWING

3			
2			
1	Record Drawing	12/97	MFD
NO.	DESCRIPTION	DATE	BY

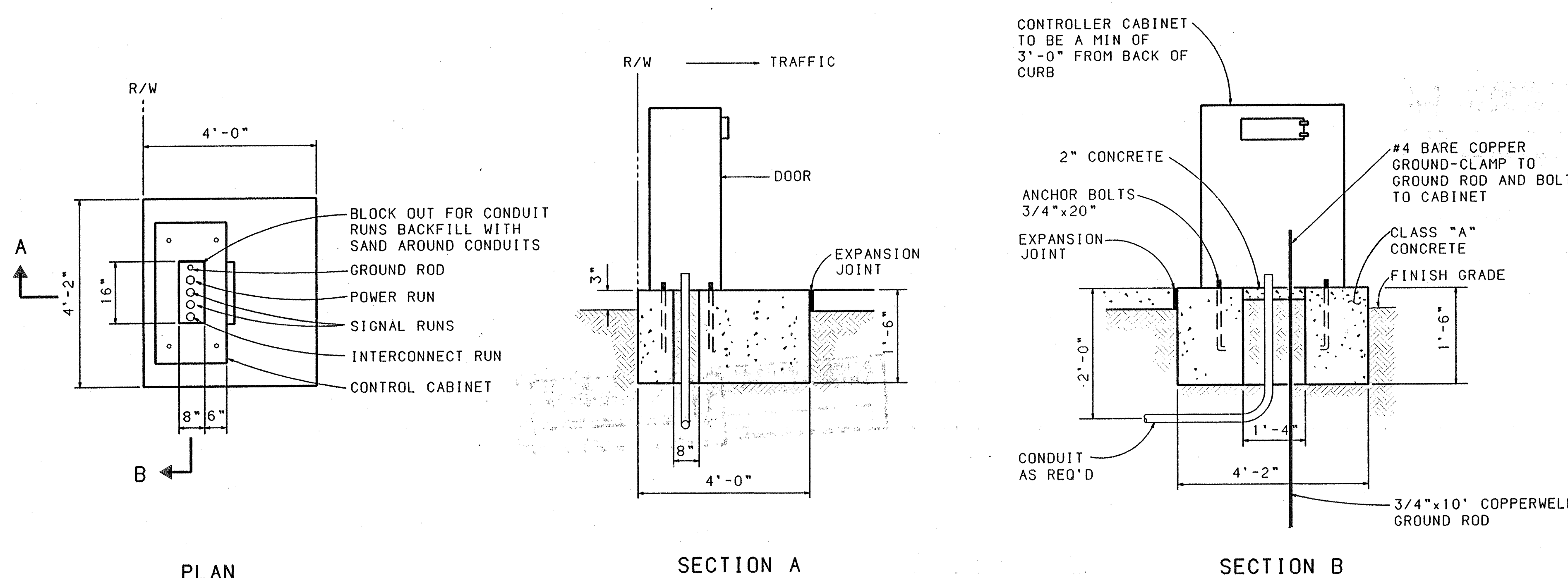
REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

NORTHEAST HEIGHTS MIDDLE SCHOOL

TRAFFIC DESIGN SECTION

TRAFFIC SIGNAL
FOUNDATION DETAILS



CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION. THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER