

CITY OF ALBUQUERQUE



April 16, 2015

Eugenio Valdez, PE
Wilson & Company, Inc.
4900 Lang Avenue NE
Albuquerque, NM 87120

**RE: Chaparral Elementary School Portable Relocation
Grading and Drainage Plan
Plan Dated 4-14-15 (File: F10-D005)**

Dear Mr. Valdez:

Based upon the information provided in your submittal received 3-27-15, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- 1) Please indicate how the first flush volume is to be managed which is defined as 0.34" times the additional impervious area for the site. Show first flush computations on the plan.
- 2) For all proposed pipe inlets and sidewalk culverts, show amount of flow that is captured and the capacity to handle the flow.
- 3) Label existing 18" storm drain pipe on the plan view and the proposed discharge of 11.94 cfs.
- 4) Show direction of runoff flow from the roofs of the portable buildings and any roof drains for the portable buildings. If there is any roof flow directed to the west of the building, show how the flow is to be managed. Show how the roof flow for the three northernmost portable buildings is being managed and if it is being conveyed to the new on-site storm drain with additional information which may include additional spot elevations, and/or inlets.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If you have any questions, you can contact me at 924-3924.

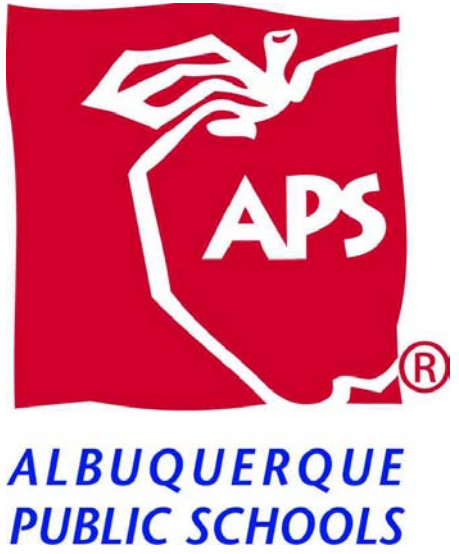
Sincerely,

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressee via Email

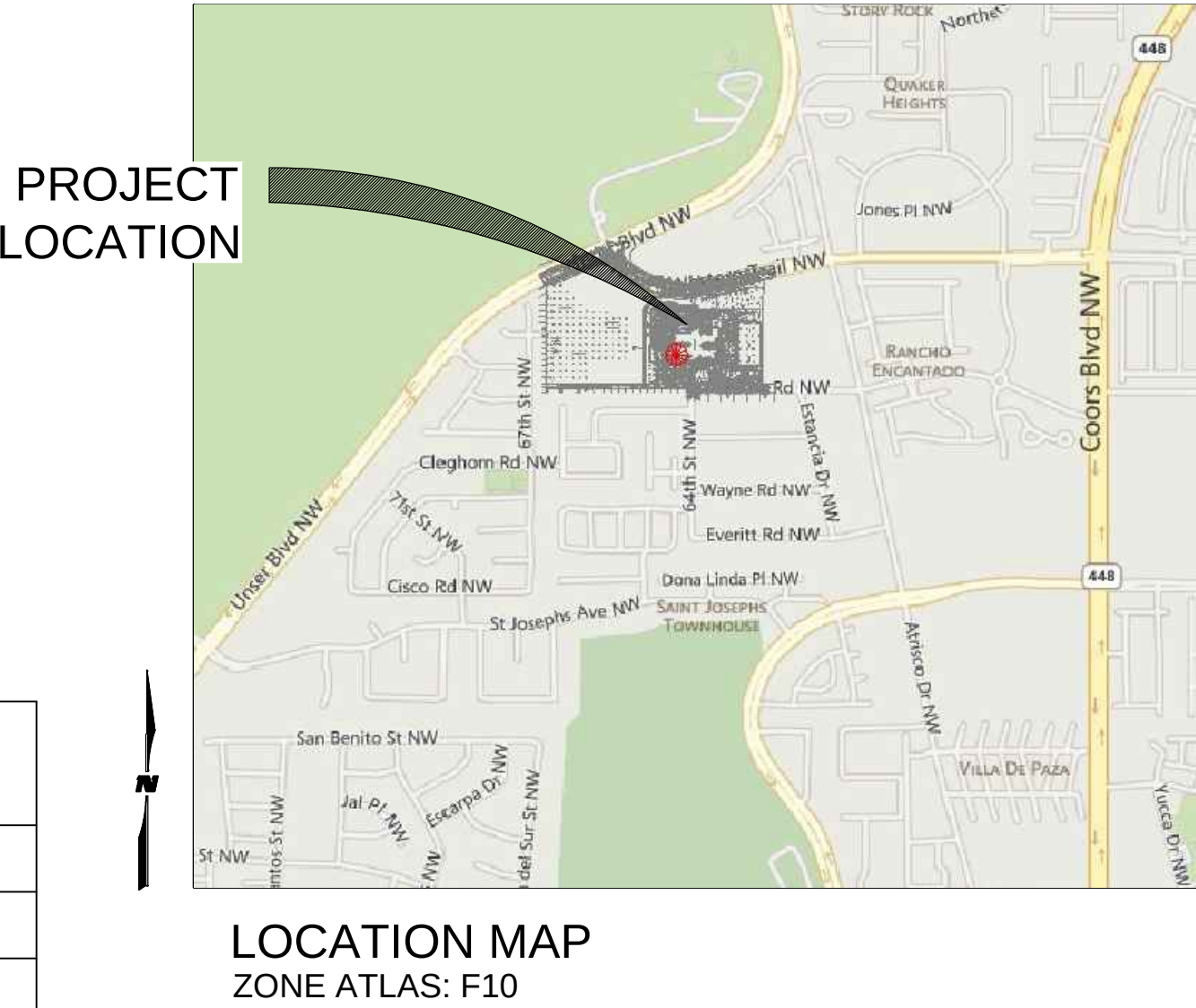
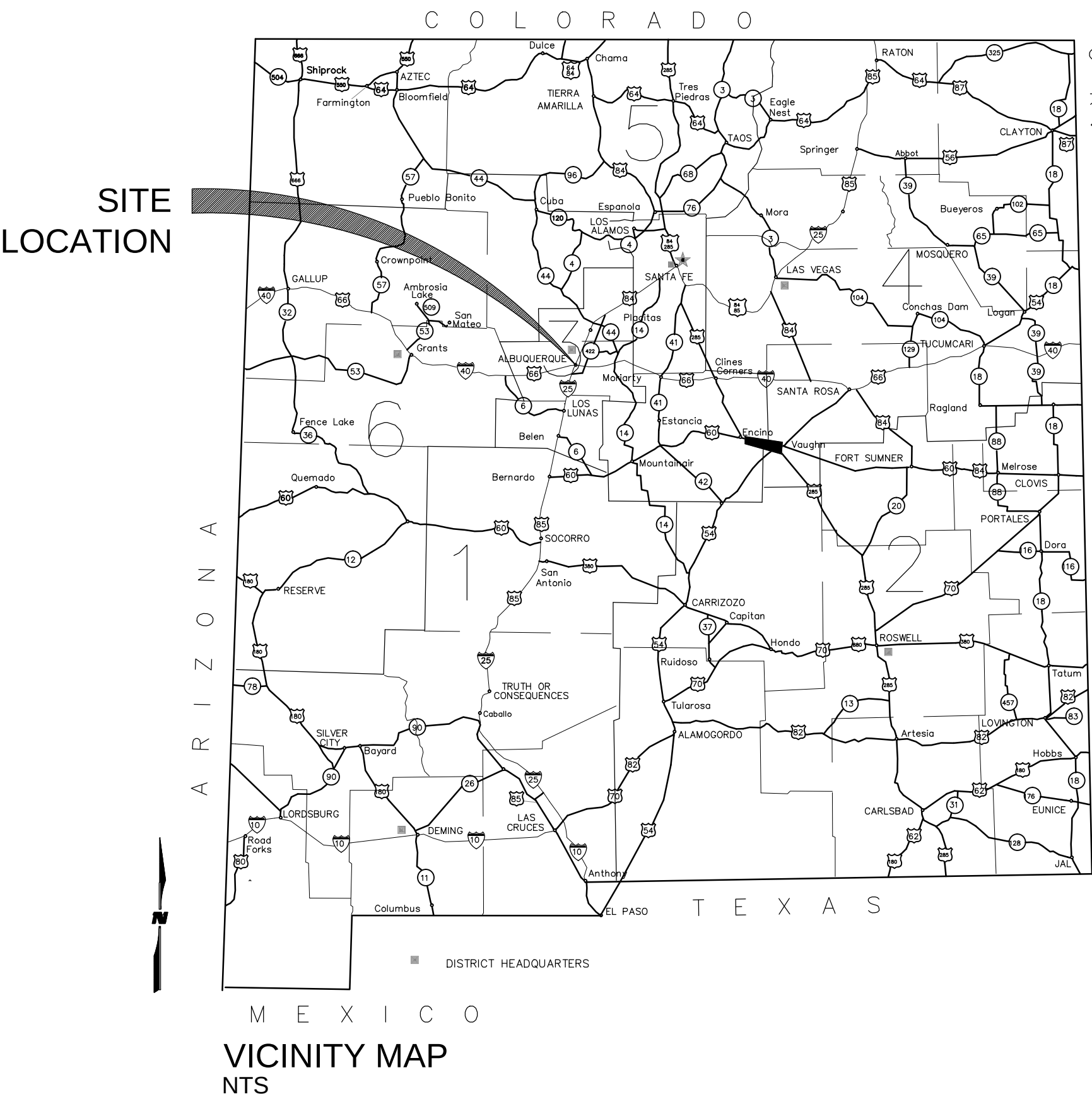


ALBUQUERQUE
PUBLIC SCHOOLS



CONSTRUCTION PLANS
FOR

CHAPARRAL ELEMENTARY SCHOOL
PORTABLE RELOCATION
6325 MILNE RD NW
ALBUQUERQUE, NM 87120



SHEET INDEX	
SHEET #	DESCRIPTION
G-001	COVER SHEET
G-002	GENERAL NOTES
C-101R	DEMOLITION PLAN
C-102	PROPOSED & FUTURE SITE PLAN
C-103R	TRAFFIC CIRCULATION LAYOUT
C-104	PIER LOCATION TABLES
C-105R	OVERALL GRADING & DRAINAGE PLAN
C-106R	GRADING & DRAINAGE PLAN
C-107	UTILITY PLAN
C-108	EROSION CONTROL PLAN
C-109 (ESC-101)	EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS

C-110 (ESC-102)	EROSION & SEDIMENT CONTROL PLAN
C-501R	SITE DETAILS
C-502	SITE DETAILS
C-503	SITE DETAILS
C-504	SITE DETAILS
C-505	SITE DETAILS
C-506	SITE DETAILS
C-507R	SITE DETAILS
C-508	SITE DETAILS
C-901	DEMOLITION PHOTOS
E101	ELECTRICAL SITE PLAN
E102	ELECTRICAL SITE PLAN

WILSON & COMPANY
4900 LANG AVE. NE
ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 SECOND FLOOR
www.wilsonco.com

CONSULTANTS

SEAL

PROJECT NAME
CHAPARRAL ELEMENTARY SCHOOL
PORTABLE RELOCATION

REV.	DATE	DESCRIPTION	BY

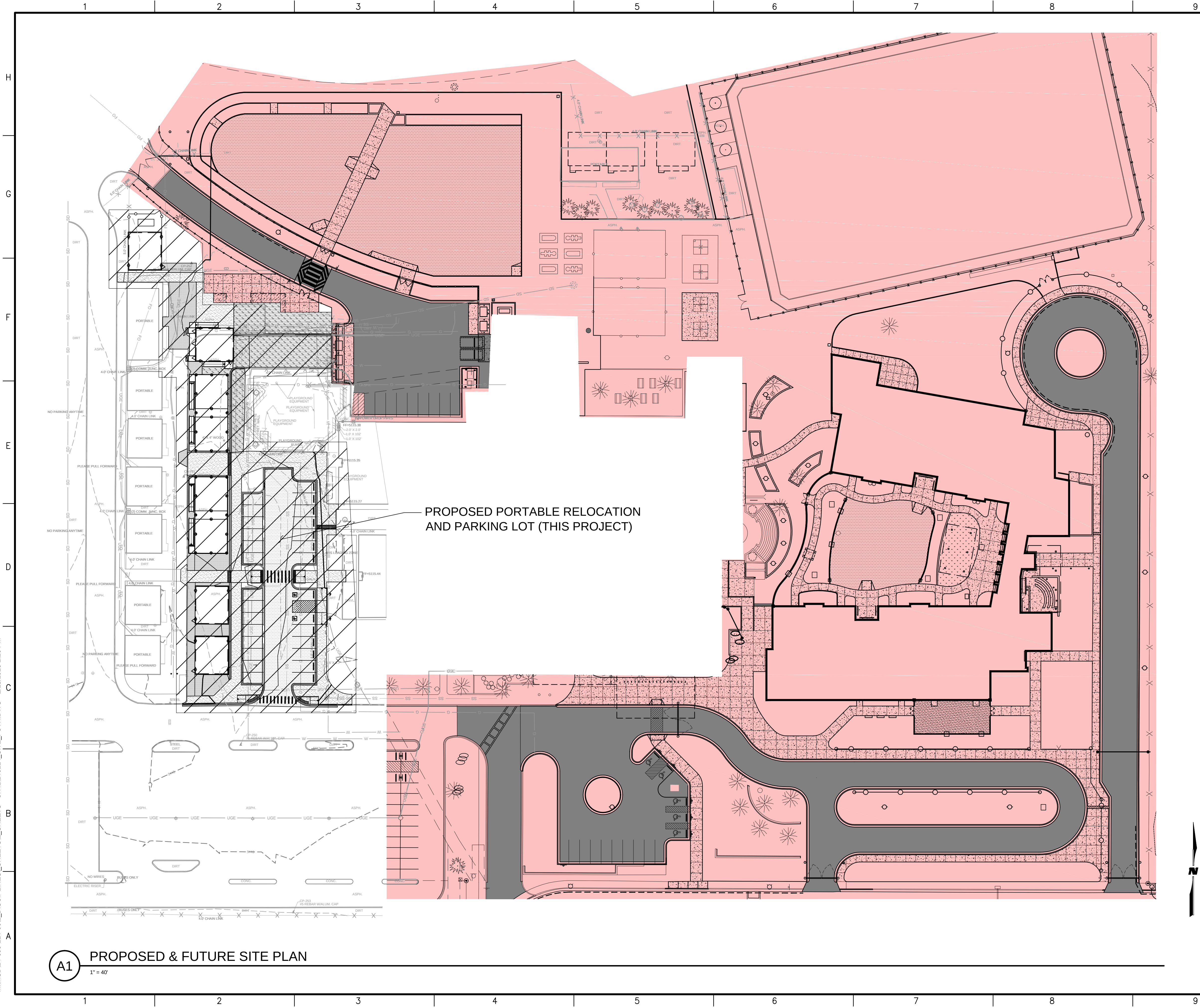
PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015
SHEET TITLE
COVER SHEET
SHEET NO:
G-001

G-002



SHEET NO:
C-101R

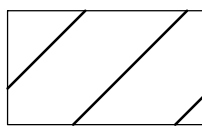
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A1 PROPOSED & FUTURE SITE PLAN

1" = 40'

LEGEND

-  FUTURE CONSTRUCTION (BY OTHERS)
-  PROPOSED CONSTRUCTION (THIS PROJECT)

PROJECT NAME
CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

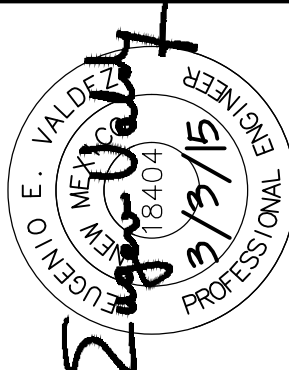
PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015

SHEET TITLE
PROPOSED & FUTURE
SITE PLAN

SHEET NO:
C-102

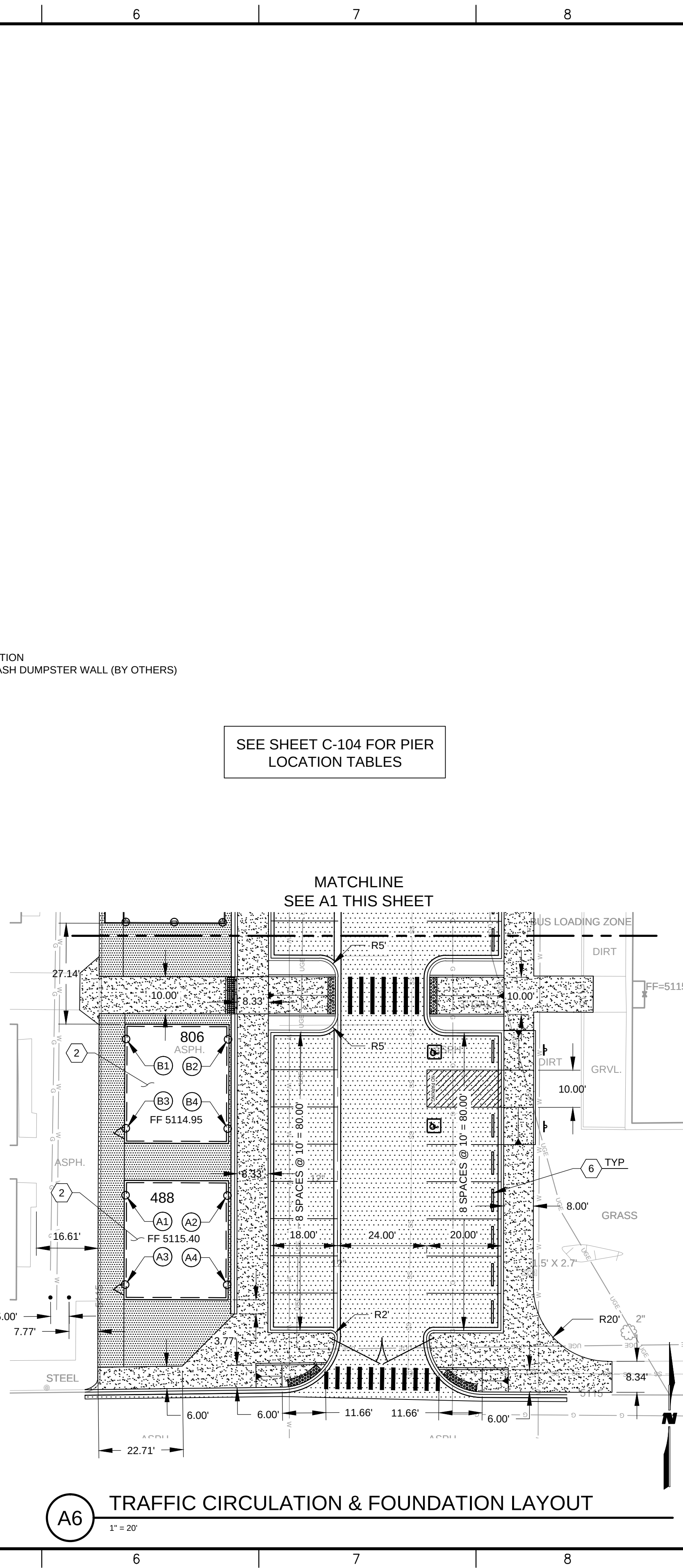
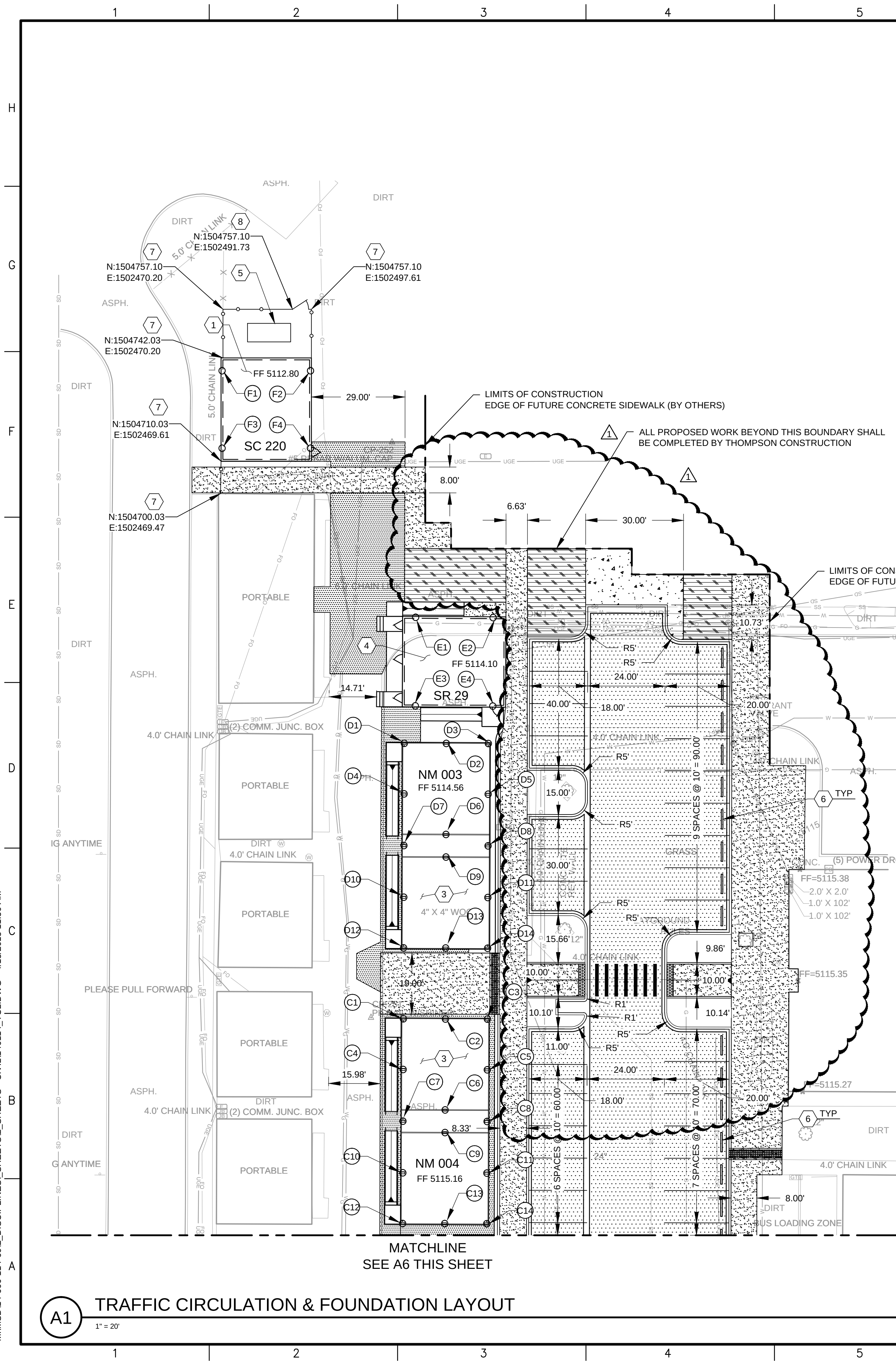
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4900 LANG AVE. NE
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FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
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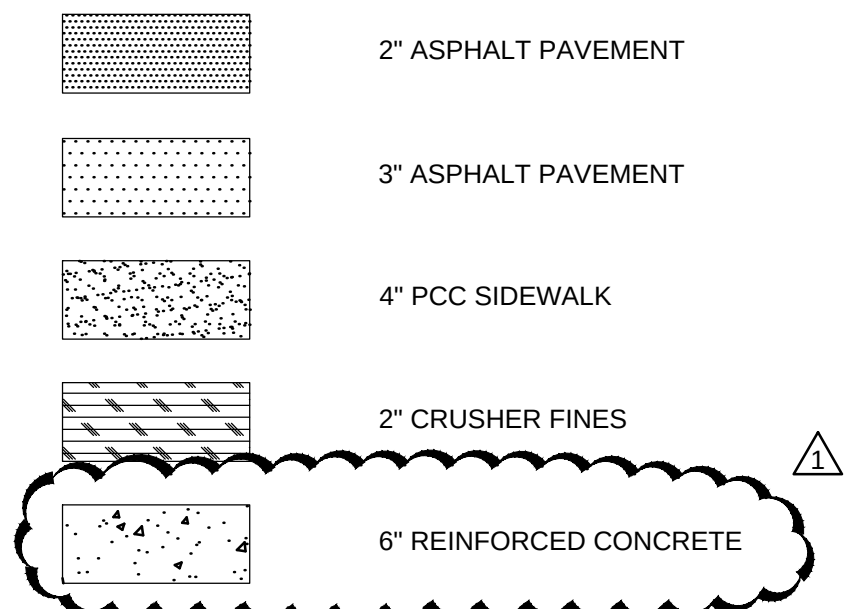
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KEYNOTES

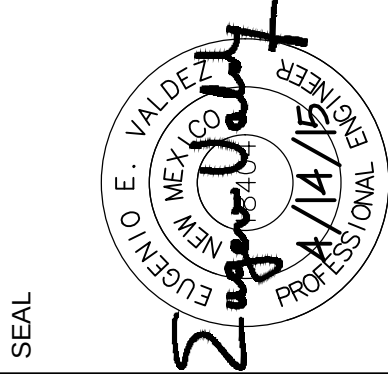
1. INSTALL 32' x 28' PORTABLE. SEE DETAIL A8/ C-503
CONSTRUCT CONCRETE PIERS. SEE DETAIL C8 OR F8 SHEET C-503
REINSTALL ADA PORTABLE RAMP. SEE DETAIL A1/ C-504 FOR TYPICAL APS
RAMP DETAILS.
2. INSTALL 32' x 28' PORTABLE. SEE DETAIL A8/ C-503
CONSTRUCT CONCRETE PIERS. SEE DETAIL C8 OR F8 SHEET C-503
PORTABLE WILL NOT HAVE RAMP INSTALLED.
3. INSTALL 64' x 27-4" PORTABLE. SEE DETAIL A3/ C-503
CONSTRUCT DRY STACK BLOCKS PIERS. SEE DETAIL C3/ C-503
REINSTALL ADA PORTABLE RAMP.
4. INSTALL 32' x 28' RESTROOM PORTABLE. SEE DETAIL A8/ C-503
CONSTRUCT CONCRETE PIERS. SEE DETAIL C8 OR F8 SHEET C-503
REINSTALL ADA PORTABLE RAMP. SEE DETAIL A1/ C-504 FOR TYPICAL APS
RAMP DETAILS.
5. RELOCATED ELECTRICAL RISERS (BY OTHERS).
6. INSTALL CONCRETE WHEELSTOP. SEE DETAIL F2/ C-501.
7. INSTALL 5'-0" H CHAIN LINK FENCE. SEE DETAIL A1/ C-508.
8. INSTALL 5' WIDE PEDESTRIAN GATE.

LEGEND



WILSON & COMPANY
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FAX: 505-348-4055
www.wilsonco.com

CONSULTANTS



SEAL

PROJECT NAME

NO.	DATE	REV.	DESCRIPTION	BY
1	04/14/15		PARKING LOT REVISION	
2				
3				
4				
5				
6				
7				
8				
9				
10				

PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015
SHEET TITLE

TRAFFIC CIRCULATION
LAYOUT

SHEET NO:

C-103R

M:\MSDL4-600-114-002_DISCIPLINES\ SHEETS\2_ SHEETS - CIVIL\146114_TCL.DWG 3/3/2015 3:48 PM

A
B
C
D
E
F
G
H

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

PORTABLE 488 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
A1	1504400.47	1502525.76	5113.73
A2	1504400.37	1502553.18	5113.73
A3	1504376.47	1502525.68	5113.73
A4	1504376.37	1502553.09	5113.73

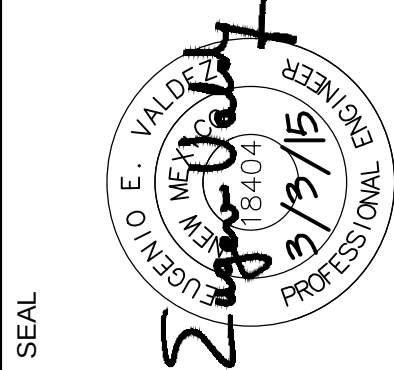
PORTABLE 806 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
B1	1504442.47	1502525.91	5113.28
B2	1504442.37	1502553.32	5113.28
B3	1504418.47	1502525.82	5113.28
B4	1504418.37	1502553.24	5113.28

PORTABLE NM004 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
C1	1504537.29	1502526.06	5113.58
C2	1504537.25	1502539.09	5113.58
C3	1504537.20	1502552.11	5113.58
C4	1504521.61	1502526.01	5113.58
C5	1504521.52	1502552.05	5113.58
C6	1504509.06	1502538.99	5113.58
C7	1504505.61	1502525.95	5113.58
C8	1504505.52	1502552.00	5113.58
C9	1504502.06	1502538.96	5113.58
C10	1504489.61	1502525.90	5113.58
C11	1504489.52	1502551.94	5113.58
C12	1504473.92	1502525.84	5113.58
C13	1504473.87	1502538.87	5113.58
C14	1504473.83	1502551.88	5113.58

PORTABLE NM003 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
D1	1504622.65	1502526.36	5112.97
D2	1504622.61	1502539.39	5112.97
D3	1504622.56	1502552.40	5112.97
D4	1504606.96	1502526.30	5112.97
D5	1504606.87	1502552.35	5112.97
D6	1504594.42	1502539.28	5112.97
D7	1504590.96	1502526.25	5112.97
D8	1504590.87	1502552.29	5112.97
D9	1504587.42	1502539.26	5112.97
D10	1504574.96	1502526.19	5112.97
D11	1504574.87	1502552.23	5112.97
D12	1504559.28	1502526.14	5112.97
D13	1504559.23	1502539.16	5112.97
D14	1504559.19	1502552.18	5112.97

PORTABLE SR29 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
E1	1504661.66	1502529.88	5112.43
E2	1504661.58	1502553.88	5112.43
E3	1504634.24	1502529.78	5112.43
E4	1504634.16	1502553.78	5112.43

PORTABLE SC220 PIER LOCATION TABLE			
PIER #	NORTHING	EASTING	TOP OF PIER ELEV
F1	1504738.03	1502469.90	5111.13
F2	1504738.03	1502497.32	5111.13
F3	1504714.03	1502469.90	5111.13
F4	1504714.03	1502497.32	5111.13



CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1460011400
DESIGNED BY: MJJ
DRAWN BY: JEM
CHECKED BY: MJJ
DATE: FEB 2015

SHEET TITLE

PIER LOCATION
TABLES

SHEET NO:

C-104

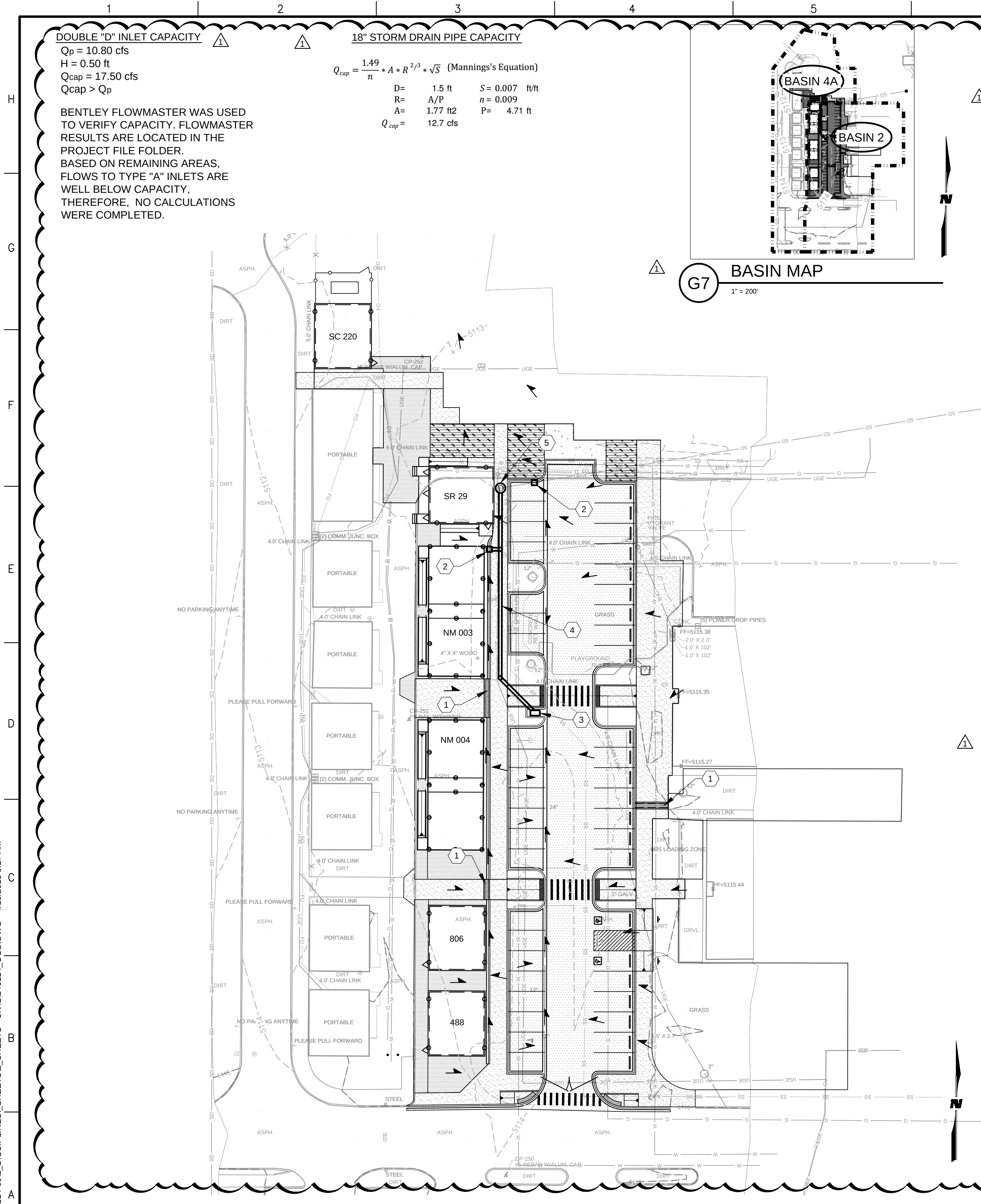
CONSULTANTS

SEAL

PROJECT NAME

WILSON & COMPANY
4900 LANG AVE. NE
ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

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INTRODUCTION AND PROJECT DESCRIPTION:
CHAPARRAL ELEMENTARY SCHOOL IS LOCATED AT 6325 MILNE RD NW ON THE NORTHWEST MESA OF THE ALBUQUERQUE METROPOLITAN AREA. THE SCHOOL GENERALLY LIES AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WESTERN TRAIL NW AND UNSER BLVD NW. THE PROPOSED SITE IS JUST WEST OF THE MAIN CLASSROOM BUILDING. OTHER PORTABLE CLASSROOM BUILDINGS ARE LOCATED JUST WEST OF THE PROPOSED RELOCATION SITE. THE SURROUNDING CAMPUS WILL BE UNDERGOING RENOVATIONS UNDER A SEPARATE PROJECT. THE GOAL OF THIS PROJECT IS TO ADD TEMPORARY PORTABLES AND PAVING TO PROVIDE CLASSROOMS FOR THE DISPLACEMENT OF STUDENTS DURING CONSTRUCTION OF THE EXPANSION OF THE CAMPUS.

THE DRAINAGE CONCEPT FOR THIS PROJECT WILL BE THE CONTINUED FREE DISCHARGE OF DEVELOPED RUNOFF TO LADERA BASIN 16 SOUTH SUMP PER THE 1983 APPROVED DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP. THE LADERA BASIN 16 SUMP LIES IMMEDIATELY EAST OF THE SCHOOL SITE.

AS SHOWN BY PANEL 114 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THE SITE DOES NOT LIE WITHIN A 100-YEAR DESIGNATED FLOOD HAZARD ZONE. THE SITE DOES LIE IMMEDIATELY WEST OF THE DESIGNATED FLOOD HAZARD ZONE, AE, COINCIDING WITH THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION BASIN. THE LADERA BASIN 16 SOUTH SUMP IS OWNED, OPERATED AND MAINTAINED BY THE CITY OF ALBUQUERQUE AND REPRESENTS THE OUTFALL FOR THE EXISTING SCHOOL SITE PER THE 2009 REVISED MASTER DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP.

METHODOLOGY:
SECTION 22.2 OF THE CITY OF ALBUQUERQUE DPM WAS UTILIZED TO CALCULATE DESIGN FLOWS. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS WAS USED. THE 100-YEAR, 6 HOUR STORM EVENT WAS THE DESIGN STORM COMPUTED FOR THE IMPROVEMENTS. THE SITE IS LOCATED IN PRECIPITATION ZONE 1 AS DESIGNATED IN TABLE A-1 OF THE DPM. BASINS WERE DELINEATED USING AN EXISTING OVERALL BASIN MAP PREPARED BY HIGH MESA CONSULTING.

EXISTING CONDITIONS:
THE PROJECT AREA IS A COMBINATION OF ASPHALT PARKING LOT WITH A VEGETATED ISLAND, ASPHALT ACCESS ROAD, AND CONCRETE SIDEWALKS. THE SITE IS CONTAINED PRIMARILY IN BASIN 2, AND A SMALL AREA WITHIN BASIN 4-A. SEE TABLE 1 FOR THE EXISTING HYDROLOGIC CONDITIONS.

BASIN 2 ENCOMPASSES APPROXIMATELY 2.81 ACRES AND CONSISTS OF THE MAIN PAVED PARKING LOT, THE WESTERN PORTION OF THE MAIN CLASSROOM BUILDING, AND SURROUNDING LANDSCAPE AREAS. THE BASIN SURFACE DRAINS FROM SOUTH TO NORTH TO AN EXISTING PRIVATE STORM INLET WITHIN THE EXISTING DRIVE. THE STORM INLET DISCHARGED TO AN EXISTING 18" PRIVATE STORM DRAIN THAT ULTIMATELY DISCHARGES TO THE LADERA BASIN 16 SOUTH SUMP.

BASIN 4-A ENCOMPASSES APPROXIMATELY 2.21 ACRES AND CONTAINS PORTABLE CLASSROOMS. PER THE 2008 MASTER DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP, BASIN 4-A DRAINS TO THE NORTH AND WEST, CURRENTLY FORMING A SHALLOW POND AT THE NORTHWEST CORNER OF THE SITE. OVERFLOW RUNOFF WILL FLOW TO THE NORTHWEST TO A DETENTION POND LOCATED ON THE ADJACENT APS ALTERNATIVE SCHOOL PROPERTY. THIS DETENTION POND DISCHARGES TO A PUBLIC STORM DRAIN THAT PASSES BENEATH THE SCHOOL SITE WITHIN A PUBLIC DRAINAGE EASEMENT ALONG THE NORTH EDGE OF THE PROPERTY. THE PUBLIC STORM DRAIN SYSTEM DRAINS FROM WEST TO EAST, DISCHARGING INTO THE LADERA BASIN 16 SOUTH SUMP.

BASIN	AREA ACRE	LAND TREATMENT (%)				Q _p (100) (CFS)	V ₍₁₀₀₋₆₎ (AC-FT)	V ₍₁₀₀₋₉₎ (CF)
		A	B	C	D			
2	2.81	0	10	4	86	11.45	0.422	18,369
4-A	2.21	0	0	70	30	7.34	0.237	10,301

Table 1: Existing Hydrology

PROPOSED CONDITIONS:
THE PROJECT INCLUDES REMOVING THE EXISTING VEGETATED PARKING MEDIAN AND EXISTING SAND PLAYGROUND, AND RELOCATING SIX PORTABLES JUST EAST OF THE EXISTING LINE OF PORTABLES THAT LIE IN THE NORTHWEST CORNER OF BASIN 2. THE NORTH EAST AREA OF BASIN 4-A WILL INCLUDE ONE 32'X28' PORTABLE. SEE TABLE 2 FOR THE PROPOSED HYDROLOGIC CONDITIONS. THE PROPOSED SITE WILL INCLUDE APPROXIMATELY 0.13 ACRES INCREASE IN LAND TREATMENT D. THIS INCLUDES THE ASPHALT PARKING LOT ADDED FOR THE NEW PORTABLES AND PROPOSED FLATWORK.

A PROPOSED TYPE DOUBLE D INLET AND AN 18" STORM DRAIN WILL BE CONSTRUCTED WITHIN THE PROPOSED ENCLOSED PARKING LOT JUST WEST OF THE MAIN BUILDING. THE STORM DRAIN WILL TIE INTO A PROPOSED MANHOLE THAT WILL GET CONSTRUCTED WITHIN THE EXISTING 18" PRIVATE STORM DRAIN. THE EXISTING INLET WITHIN BASIN 2 WILL BE REMOVED AND THE PROPOSED 18" STORM DRAIN WILL CAPTURE FLOWS FROM TWO TYPE A INLETS AND A DOUBLE D INLET TO ACCEPT RUNOFF FROM BASIN 2. APPROXIMATELY 10.8 CFS WILL GET CAPTURED IN THE DOUBLE D INLET LEAVING APPROXIMATELY 1.2 CFS TO BE CAPTURED BY THE TYPE A INLETS. BOTH THE DOUBLE D INLET AND THE TYPE A INLETS HAVE THE CAPACITY WITH NO MORE THAN 6" OF HEAD TO CAPTURE THE REQUIRED PEAK FLOWRATES.

BASIN 4A IS CURRENTLY A DIRT LOT. PLANS TO DEVELOP BASIN 4A ARE TO PROCEED FOLLOWING THE COMPLETION OF THE PORTABLE RELOCATION PROJECT. REFER TO CHAPARRAL ELEMENTARY SCHOOL ADDITION PLANS SHEET ES-C102 BY HIGH MESA FOR PROPOSED DEVELOPMENTS.

BASIN	AREA ACRE	LAND TREATMENT (%)				Q _p (100) (CFS)	V ₍₁₀₀₋₆₎ (AC-FT)	V ₍₁₀₀₋₉₎ (CF)
		A	B	C	D			
2	2.81	0	0	8	92	11.94	0.443	19,295
4-A	2.21	0	0	64	36	7.54	0.243	10,772

Table 2: Proposed Hydrology

CONCLUSIONS:
THERE IS AN OVERALL INCREASE OF 0.69 CFS AND 1397 CF. THE DRAINAGE PATTERNS HAVE NOT BEEN ALTERED. THE 2009 MASTER DRAINAGE PLAN SHOWS THE EXISTING PRIVATE STORM DRAIN TO HAVE A CAPACITY OF 12.7 CFS WHICH IS GREATER THAN THE PROPOSED PEAK FLOW OF 11.94 CFS.

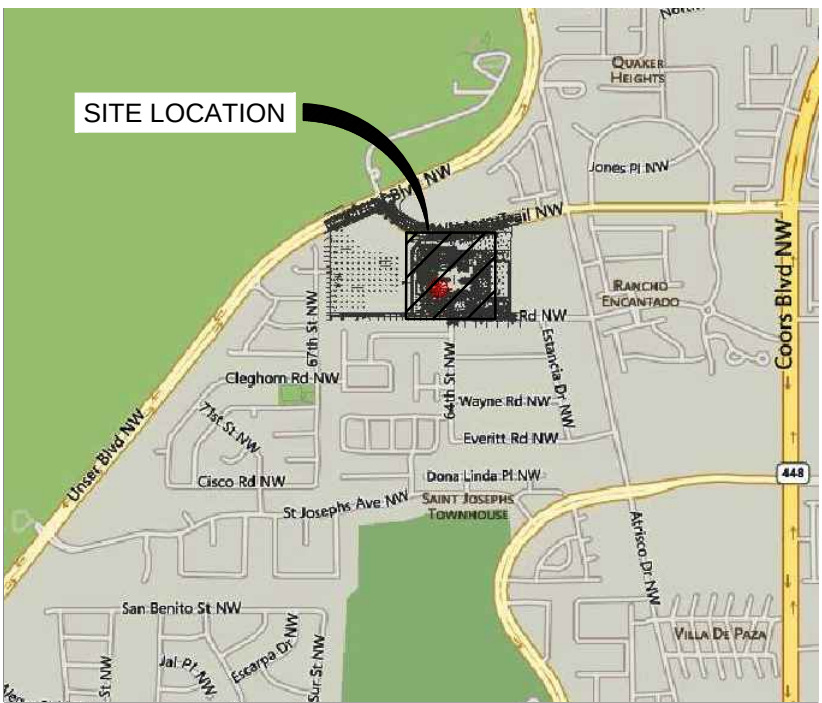
INPUT DATA:

PRECIP. ZONE	RAINFALL DEPTHS (INCHES) AT 100-YEAR STORM				
	1 HOUR	6 HOUR	24 HOUR	4 DAY	10 DAY
1	1.87	2.20	2.66	3.12	3.67

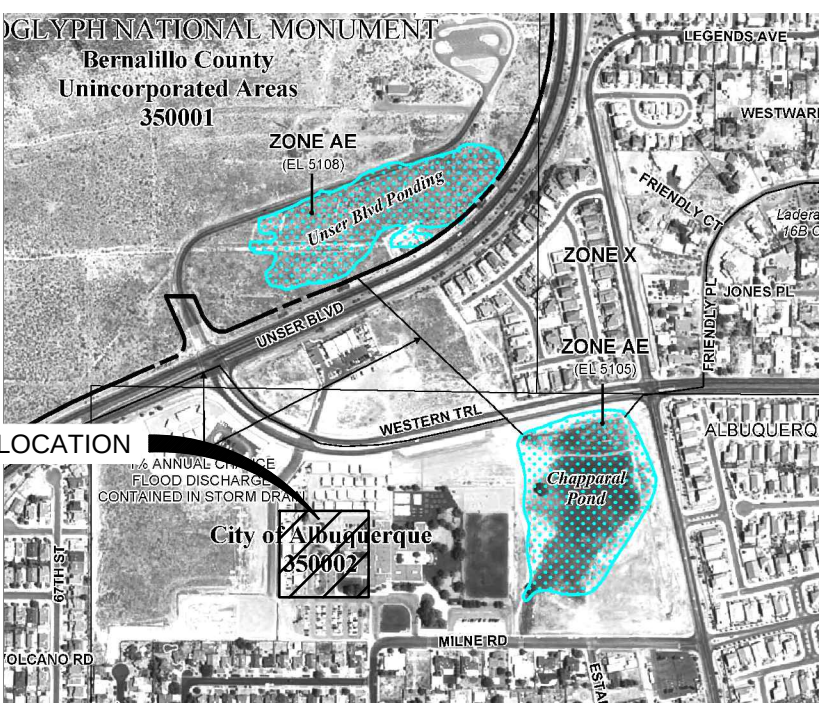
HYDROLOGY SUMMARY

PROJECT NAME: Chaparral ES Portable Relocation			2 YEAR										10YEAR		100 YEAR							
JOB NUMBER: 1460011400			AREA	LAND TREATMENTS						Q		VOLUME (ac-ft)		Q		VOLUME (ac-ft)		Q		VOLUME (ac-ft)		
BASIN	COND.	DESCRIPTION	(acres)	A	B	C	D	E	F	G	H	I	J	Q	VOLUME (ac-ft)	Q	VOLUME (ac-ft)	Q	VOLUME (ac-ft)	Q	VOLUME (ac-ft)	
2	Existing	Grass	2.8100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	0.464	0.1880	0.207	0.2080	0.2300	0.46	0.217	0.163
4-A	Developed	Grass	2.2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.85	0.425	0.2004	0.222	0.2240	0.2460	0.49	0.231	0.175
4-A	Developed	Grass	2.2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.2053	0.0663	0.22	0.1922	0.242	0.54	0.2605	0.200
4-A	Developed	Grass	2.2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	0.0619	0.0191	0.41	0.1814	0.1544	0.74	0.3373	0.279

A6 DRAINAGE REPORT
NTS



LOCATION
ZONE ATLAS MAP NO F-10



FLOOD INSURANCE RATE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 114 #35001C0114H



SOILS MAP
REFERENCE: HTTP://WEBSoilsURVEY.NRCS.USDA.GOV

GENERAL SHEET NOTES

- EXISTING CONTOUR INTERVALS:
1" INTERMEDIATE
5" INDEX

KEYNOTES

- SIDEWALK CULVERT
- TYPE 'A' SINGLE INLET
- TYPE DOUBLE 'D' INLET
- PROPOSED 18" DIA STORM DRAIN
- 4" DIA TYPE "C" MH

LEGAL DESCRIPTION

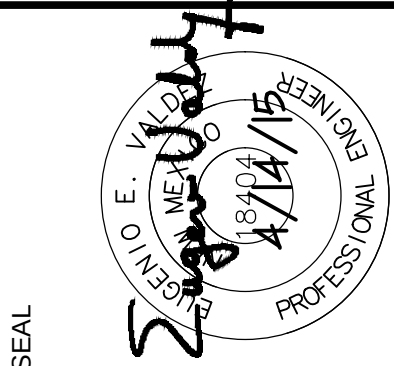
LOT: B BLOCK 0000, SUBDIVISION CHAPARRAL ES

PROJECT BENCHMARK

THE BENCHMARK IS LOCATED 3.6 MILES NORTHWEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE BENCHMARK FROM THE INTERSECTION OF OURAY ROAD AND LADERA DRIVE NW, TRAVEL EAST ON OURAY RD. 0.40 MILES TO THE INTERSECTION OF ESTANCIA DRIVE. THE BENCHMARK IS A 1 3/4" METALLIC DISK EPOXIED TO THE TOP OF CURB 5.50 FEET WEST OF THE WSW RETURN, STAMPED "ACS BM 19- H11". HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 COORDINATE SYSTEM: NEW MEXICO STATE PLANE CENTRAL ZONE 3002 COMBINED GRID TO GROUND SCALE FACTOR: 1.0003199506 GEOID: 03 UNITS: US SURVEY FEET

WILSON & COMPANY
4900 LANG AVE. NE
ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

CONSULTANTS



SEAL

PROJECT NAME

M/J

PARKING LOT REVISION

04/14/15

REV.

DATE

DESCRIPTION

BY

PROJECT NO:

DESIGNED BY:

DRAWN BY:

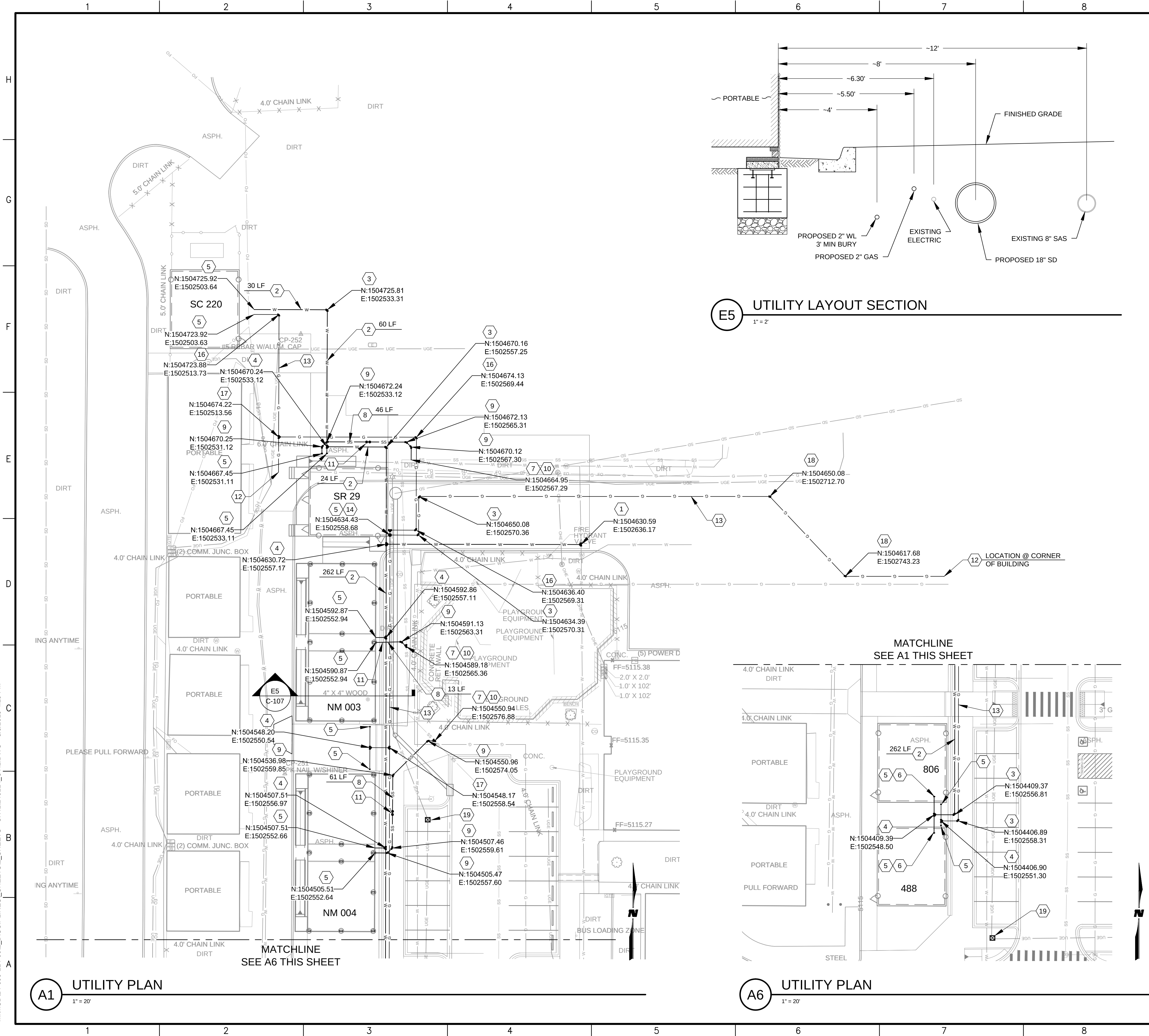
CHECKED BY:

SHEET TITLE

OVERALL GRADING & DRAINAGE PLAN

SHEET NO:

C-105R



GENERAL SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES. LOCATION ON THESE PLANS ARE APPROXIMATE.
- SEE SHEET C-504 FOR UTILITY CONNECTION DETAILS.
- CONNECTION TO EXISTING UTILITY LINES SHALL BE COORDINATED WITH SAL WAR, APS PORTABLE MANAGER @ 505.975.5965.
- LAYOUT OF PROPOSED UTILITIES SHALL BE COORDINATED WITH SAL WAR, APS PORTABLE MANAGER @ 505.975.5965.
- WATER LINES SHALL HAVE A MINIMUM 30" BURY.
- GAS LINES SHALL HAVE A MINIMUM 18" BURY.
2" GAS SHALL BE PROVIDED FROM EXISTING BUILDING UP TO RISER.
1" GAS SHALL BE PROVIDED FROM RISER TO PORTABLES.

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FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

CONSULTANTS

SEAL

PROJECT NAME

BY

DESCRIPTION

DATE

REV.

PROJECT NO:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:

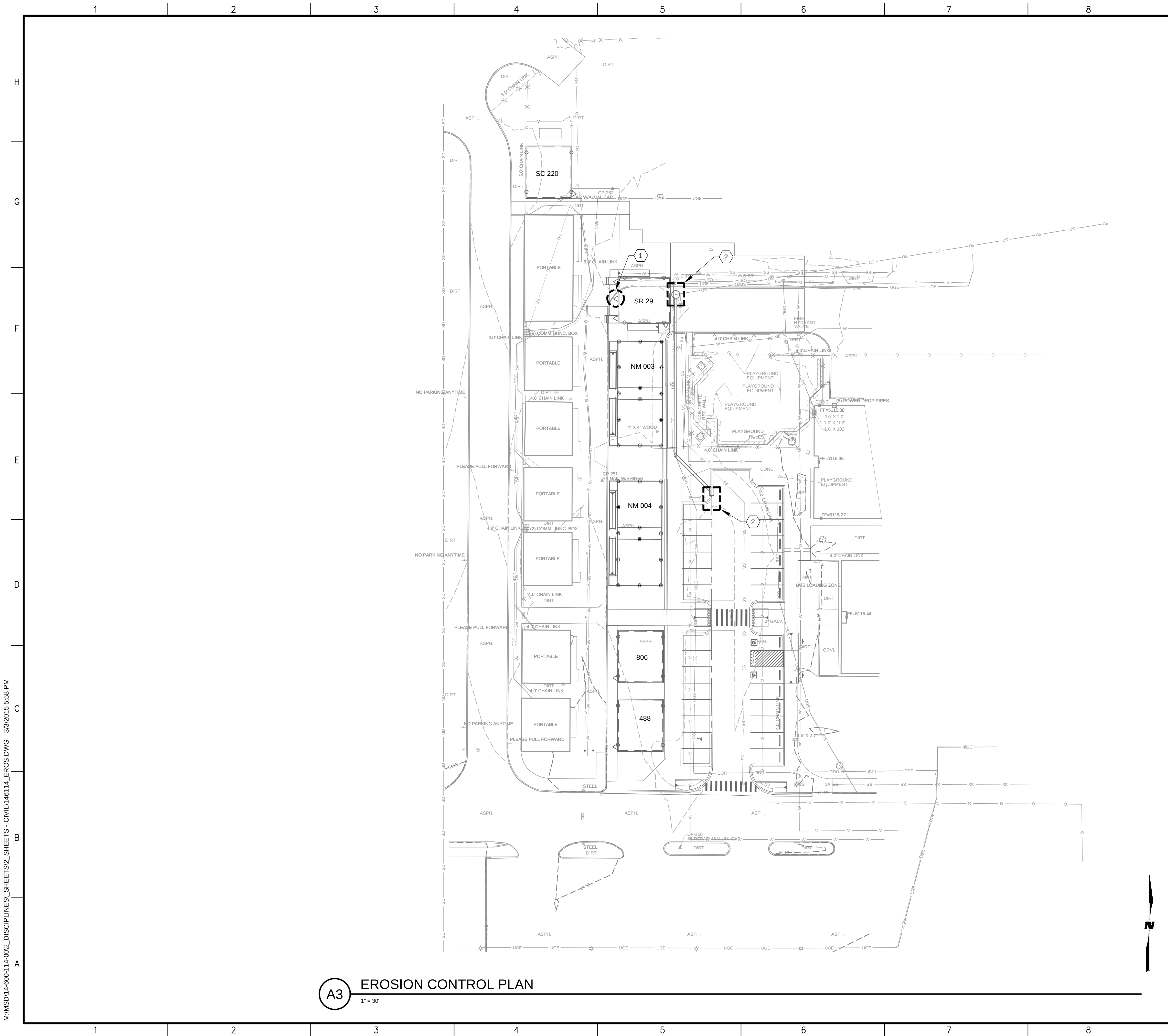
SHEET TITLE

UTILITY PLAN

SHEET NO:

C-107

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GENERAL SHEET NOTES

1. FOR ADDITIONAL EROSION CONTROL REQUIREMENTS, THE CONTRACTOR SHALL REFER TO HIGH MESA EROSION & SEDIMENT CONTROL PLAN & EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS .

KEYNOTES

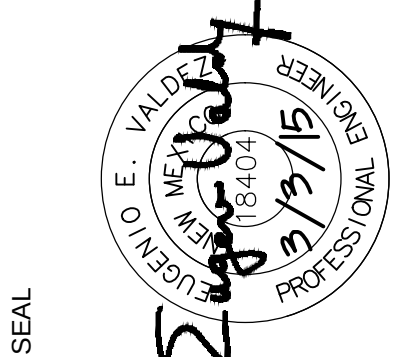
1. EXISTING INLET PROTECTION. SEE EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS.
2. PROPOSED INLET PROTECTION. SEE EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS.

LEGEND

- FLOW DIRECTION
- PROPOSED INLET PROTECTION
- EXISTING INLET PROTECTION

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CONSULTANTS



SEAL

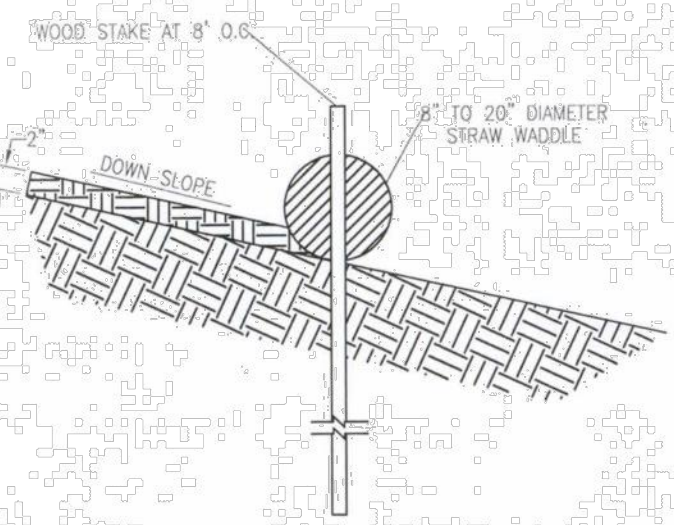
PROJECT NAME
**CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION**

REV.	DATE	DESCRIPTION	BY

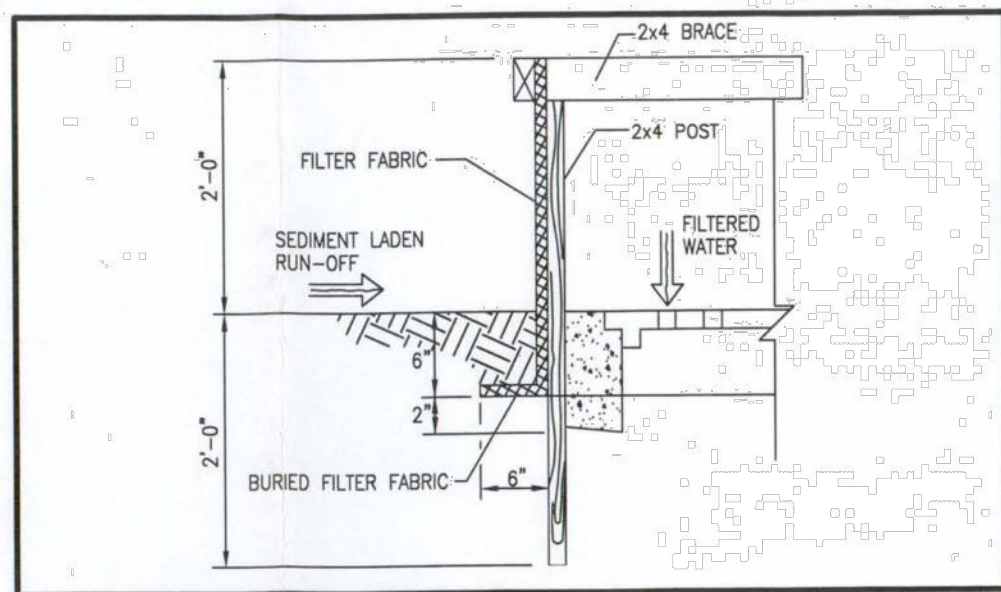
PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015

SHEET TITLE
**EROSION CONTROL
PLAN**

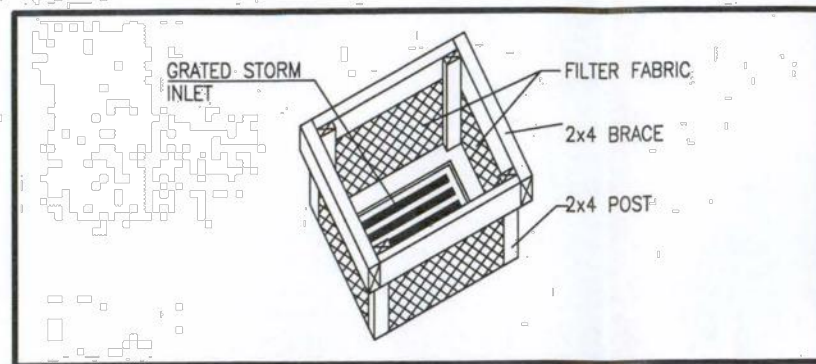
SHEET NO:
C-108



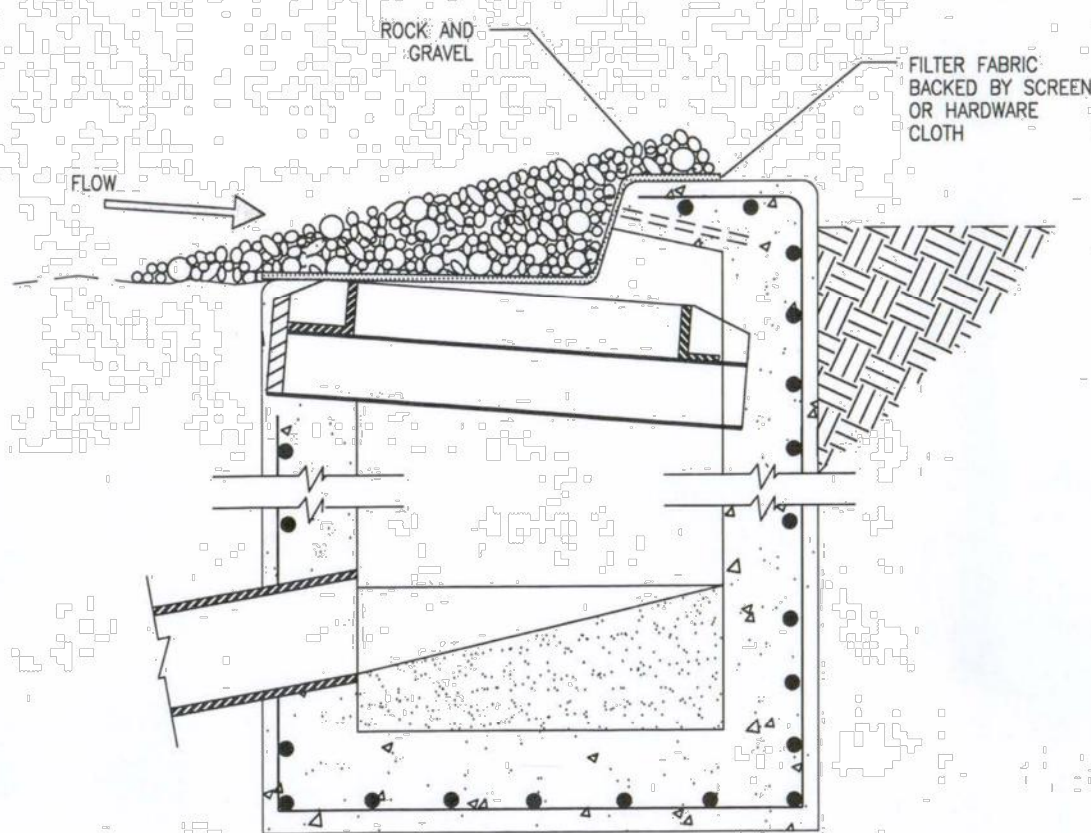
TYPICAL STRAW WADDLE INSTALLATION SECTION
SCALE: 1" = 1'-0"
(OPTIONAL BMP)



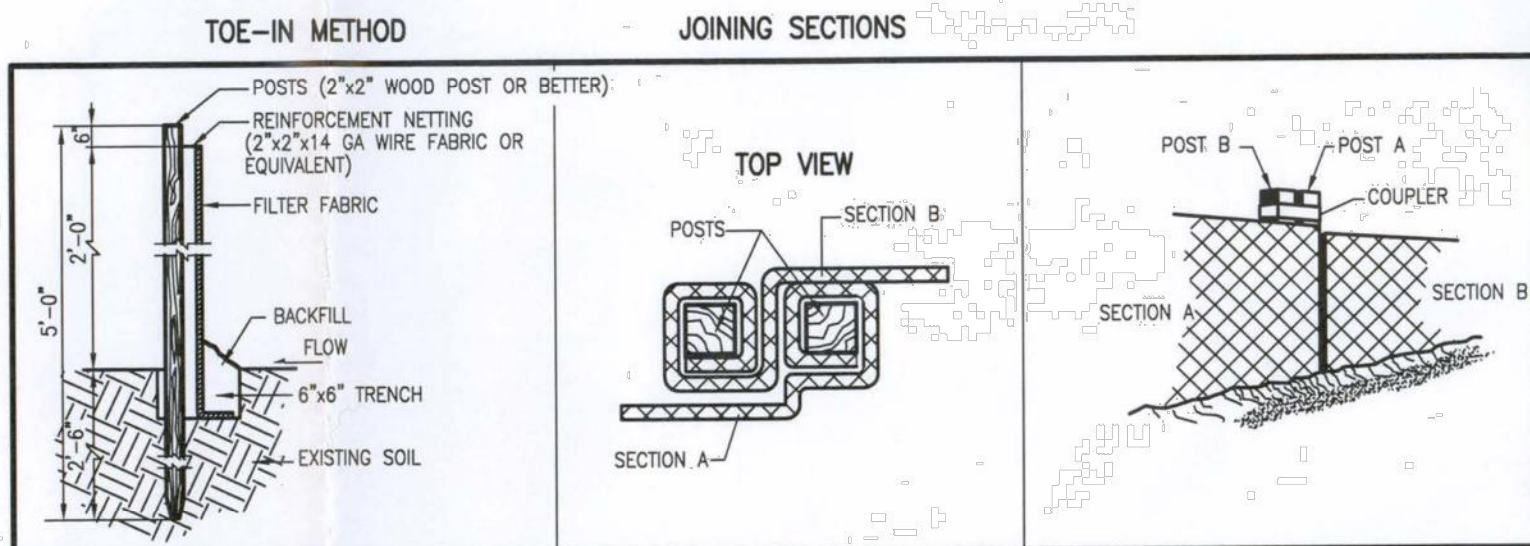
SILT FENCE INLET PROTECTION SECTION
NOT TO SCALE



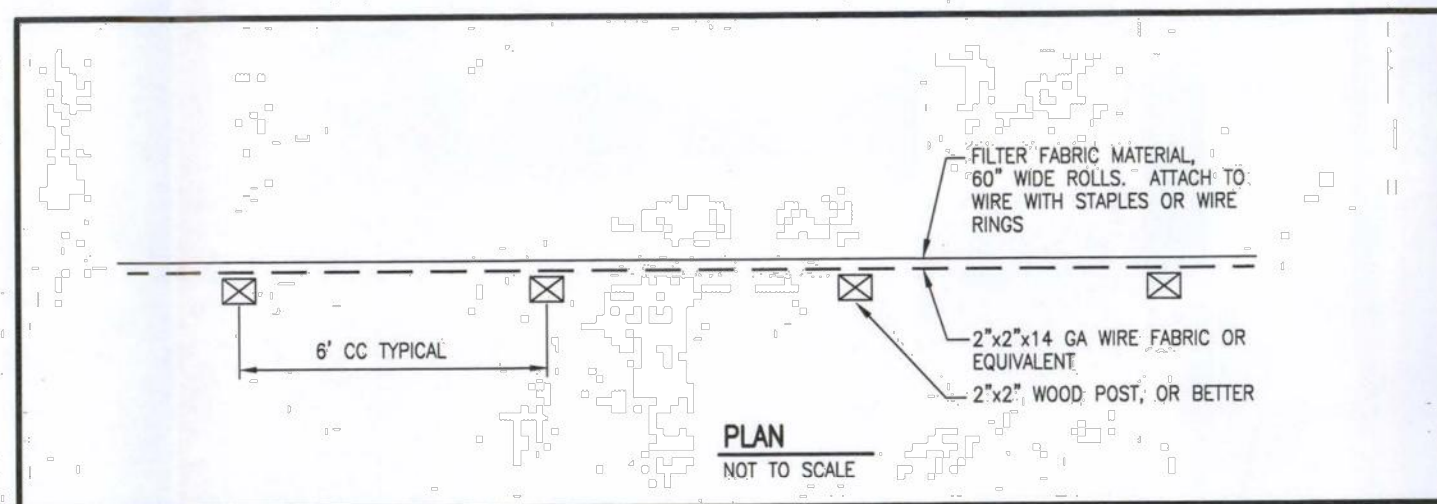
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NOT TO SCALE



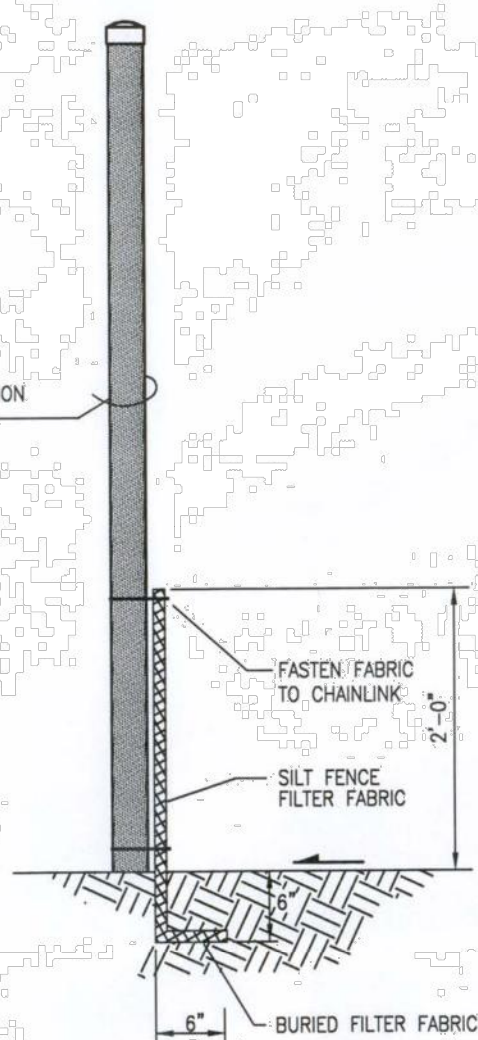
TYPICAL STORM INLET PROTECTION
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(OPTIONAL BMP)



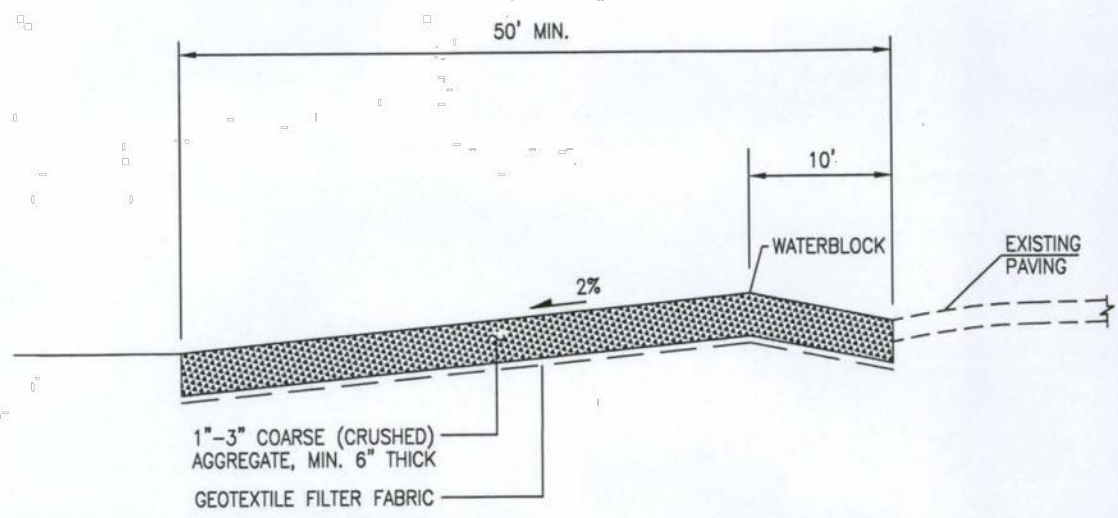
JOINING SECTIONS
SCALE: 1" = 1'-0"



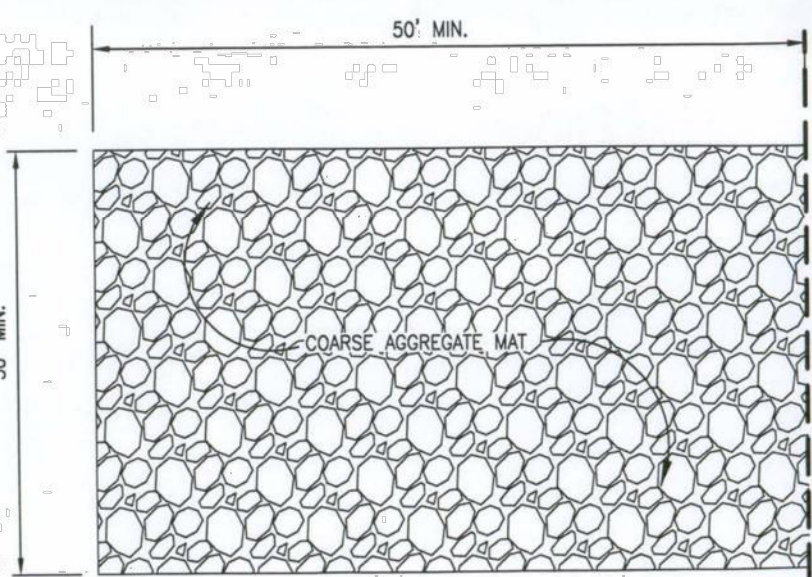
PREFABRICATED SILT FENCE DETAILS
NOT TO SCALE



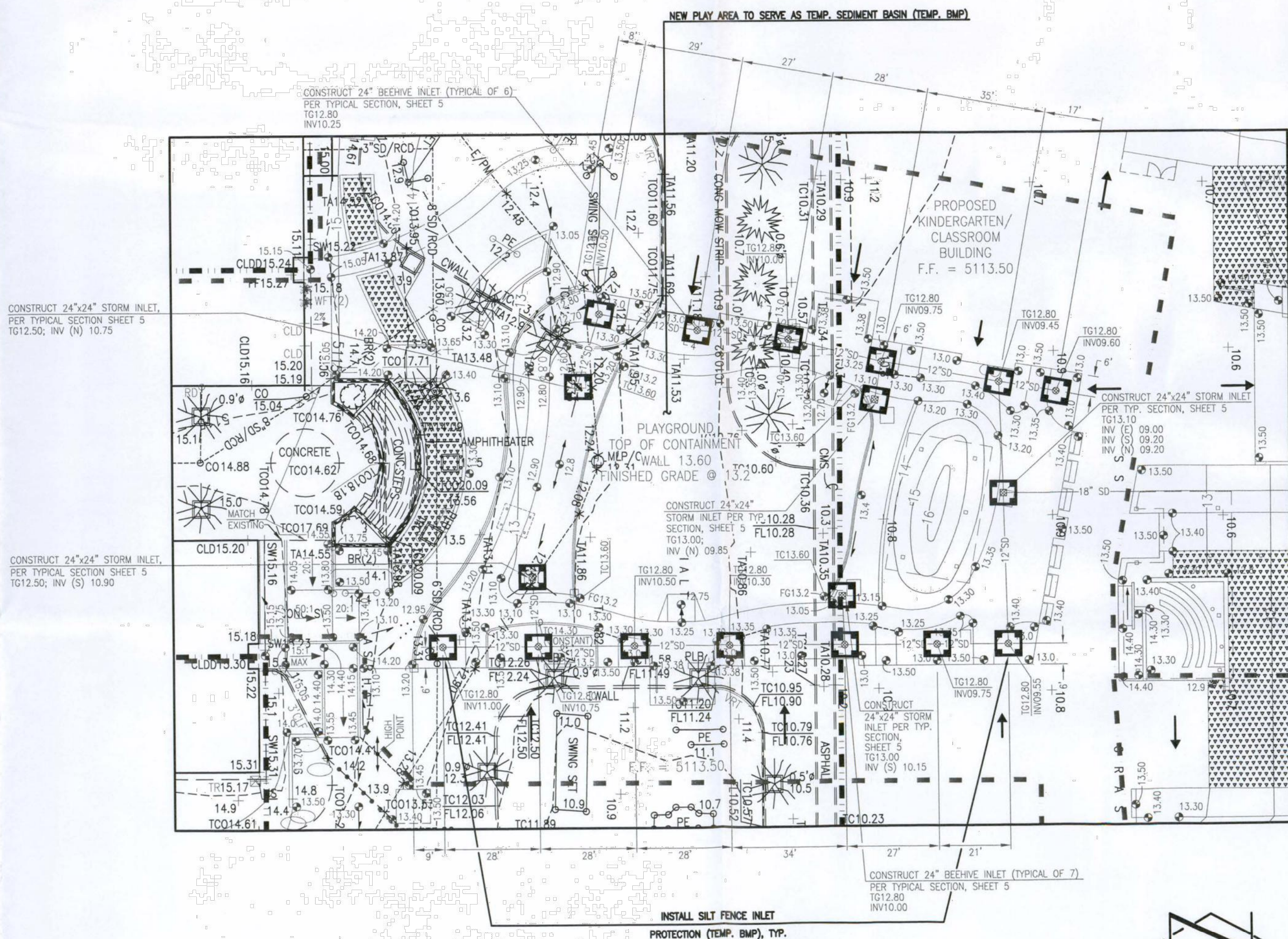
CONSTRUCTION FENCE/SILT FENCE SECTION
SCALE: 1" = 2'-0"



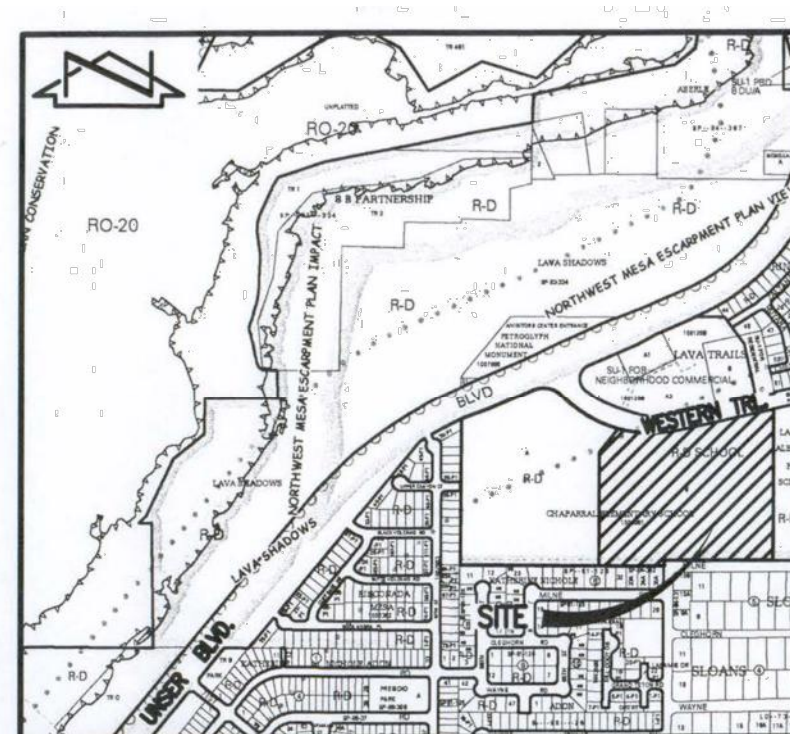
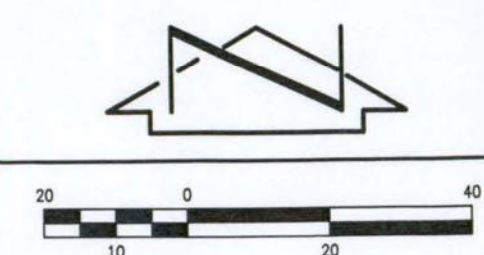
SECTION A-A
SCALE: 1" = 2'-0"



CONSTRUCTION ENTRANCE STABILIZATION
SCALE: 1" = 10'-0" HORIZ.
1" = 2'-0" VERT.



COURTYARD PLAN
SCALE: 1" = 20'



VICINITY MAP
SCALE: 1" = 750'

VARIETY/COMMON NAME	GENUS/SPECIES	PLS/ACRE
*PALOMA INDIAN RICE GRASS	ORYZOPSIS HYMENOIDES	5.0
*VIVA GALLETIA GRASS	HILARIA JAMESII	1.0
*WINER SIDE OATS GRAMA	BOULELOUA CURTIPENDULA	3.0
*HATCHITA BLUE GRAMA	BOULELOUA GRACILIS	1.0
SAND DROPSSEED (NM REGION)	SPOROBOLUS CRYPTANDRUS	1.0
FOUR-WING SALTBUSH (NM REGION)	ATRIPLEX CANESCENS (OE-WINGED)	1.0
TOTAL RATE:		12.0 LBS/ACRE

EROSION AND SEDIMENT CONTROL PLAN NOTES:

- THIS PLAN ADDRESSES GENERAL AND SPECIFIC MEASURES FOR CONSTRUCTION PHASE EROSION, SEDIMENT AND DUST CONTROL. IT IS INTENDED TO COMPLEMENT THE PROJECT SPECIFIC STORM WATER POLLUTION AND PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL PERIMETER BMPs BEFORE BEGINNING CONSTRUCTION. REFER TO THE SWPPP PREPARED BY HIGH MESA CONSULTING GROUP, DATED 04-11-2012 AS AMENDED FOR PROJECT SPECIFIC PHASING AND INFORMATION. THIS PROJECT SHALL BE IMPLEMENTED IN PHASES TO MINIMIZE THE EXTENT AND DURATION OF SURFACE DISTURBANCE.
- REFER TO THE GRADING AND DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP, DATED 03-28-2013 AND REVISED 04-25-2013.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN-UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- THE CONTRACTOR SHALL CLEAN AND REMOVE ALL FUGITIVE DUST, SOIL AND DEBRIS RESULTING FROM THIS PROJECT FROM THE ADJACENT STREETS AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL GOOD HOUSEKEEPING MEASURES OUTLINED IN THE SWPPP INCLUDING, BUT NOT LIMITED TO, DAILY PICKING UP TRASH, LITTER AND CONSTRUCTION DEBRIS.
- THE CONTRACTOR SHALL PROMPTLY REMOVE SEDIMENT ACCUMULATION FROM SILT FENCES AND OTHER STRUCTURAL BMPs WITHIN 48 HOURS OF A RAINFALL EVENT.
- THE CONTRACTOR SHALL IMPLEMENT ONSITE STRUCTURAL EROSION CONTROL MEASURES AS REQUIRED TO COMPLY WITH THE EROSION AND SEDIMENT CONTROL PLAN AND SWPPP. THESE MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SILT FENCES, EARTHEN DIKES, DRAINAGE DIVERSIONS, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM WATER RETENTION SYSTEMS, CATIONS AND TEMPORARY OR PERMANENT SEDIMENT DETENTION BASINS. THE FOLLOWING MEASURES ARE PROPOSED FOR THIS PROJECT:
 - PERIMETER SILT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - WADDLES (OPTIONAL)
 - ONSITE INLET PROTECTION
 - INTERNAL SEDIMENT DETENTION BASINS
- THE CONTRACTOR SHALL MINIMIZE OFFSITE VEHICLE TRACKING OF SEDIMENT AND DUST GENERATION.
- CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASHING. THE WASHING OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE UNLESS OTHERWISE PROVIDED FOR BY THIS PLAN. IF PROVIDED FOR BY THIS PLAN, CONCRETE TRUCKS MAY ONLY WASH OUT IN A DESIGNATED AND LINED WASHOUT FACILITY.
- OFFSITE MATERIAL STORAGE AREAS USED BY THIS PROJECT ARE CONSIDERED PART OF THE PROJECT AND THEREFORE SUBJECT TO THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SWPPP.
- UPON COMPLETION OF MASS GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT CONSTRUCTION, LANDSCAPING, VEGETATION AND/OR GRAVEL MULCH. SILT FENCING CAN BE REMOVED UPON SUCCESSFUL ESTABLISHMENT OF VEGETATION.
- THROUGHOUT THE DURATION OF THIS PROJECT, CONTRACTOR SHALL IMPLEMENT, MAINTAIN AND INSPECT ALL BMPs, KEEPING RECORDS OF EACH INSPECTION IN ACCORDANCE WITH THE SWPPP, AND KEEP RECORDS OF THE INSTALLATION MAINTENANCE, AND REMOVAL OF EACH BMP SPECIFIED BY THIS PLAN OR OTHERWISE PROVIDED FOR THROUGHOUT THE LIFE OF THE PROJECT.
- THOSE PORTIONS OF THE COMPLETED PROJECT NOT STABILIZED WITH PERMANENT CONSTRUCTION OR FORMAL LANDSCAPING SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING FOR SANDY SOILS PER THE SEED MIX SPECIFIED HEREDON AND SPECIFICATIONS CONTAINED WITHIN THE SWPPP.
- FINAL STABILIZATION OF THE PROJECT SITE WILL CONSIST OF THE FOLLOWING MEASURES:
 - PERMANENT BUILDING CONSTRUCTION
 - PERMANENT PAVING
 - FORMAL LANDSCAPING
- TOTAL SITE AREA = 10 AC±
- TOTAL DISTURBED AREA = 7.3 AC±

LEGEND

25.41	PROPOSED SPOT ELEVATION
+24.88	EXISTING FLOWLINE ELEVATION
+24.06	EXISTING SPOT ELEVATION
08	PROPOSED CONTOUR
5008	EXISTING CONTOUR
---	PROPOSED FLOWLINE
---	EXISTING FLOWLINE
---	PROPOSED DRAINAGE
---	EXISTING DRAINAGE
---	RIGHT OF WAY LINE
---	PUBLIC EASEMENT LINE
---	PROPOSED CONCRETE
---	PROPOSED ASPHALT PAVING
---	PROPOSED RETAINING WALL
+	HIGH POINT
---	PROPOSED DRAINAGE BASIN BOUNDARY
---	EXISTING DRAINAGE BASIN BOUNDARY
---	SILT FENCE
---	SILT FENCE ATTACHED TO CHAIN LINK FENCE
---	FUTURE LANDSCAPING
---	FUTURE LANDSCAPING
---	FUTURE PHASE

KEY PLAN NOT REQUIRED

MARK	DATE	DESCRIPTION
------	------	-------------

MANAGEMENT BLOCK

PROJECT NO: CHAPARRAL
CAD DWG FILE:
DRAWN BY: JDS/ES
CHECKED BY: JCM
COPYRIGHT: Cherry/Reames LLP, 2013

TITLE OF SHEET EROSION & SEDIMENT CONTROL PLAN NOTES AND DETAILS

SHEET NUMBER

ESC-101
SHEET OF



6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 FAX: 505.345.4254
www.highmesacg.com

2012.184.2

BOUNDARY TABLES

LINE	DIRECTION	DISTANCE
L1	S 00°03'53" W	30.00'

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	643.00'	313.14'	310.06'	S 88°25'57" E	27°54'11"

NEW DEPRESSED PLANTER TO SERVE AS PERMANENT VEGETATIVE FILTER AND SEDIMENT TRAP, TYP.

INSTALL SILT FENCE • PERMANENT CHAIN LINK FENCE LINE (TEMPORARY BMP)

NEW PLAY AREA TO SERVE AS TEMPORARY SEDIMENT BASIN

FUTURE LANDSCAPING (PERMANENT BMP), TYP.

EXISTING LANDSCAPED AREA TO SERVE AS TEMPORARY AND PERMANENT SEDIMENT TRAP

WESTERN TRAIL N.W.

BUSWAY

MULTIPURPOSE FIELD AND TRACK (EXISTING)

FUTURE LANDSCAPING (PERMANENT BMP), TYP.

FOR ENLARGED COURTYARD SEE SHEET ESC-101

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EXISTING BUILDING

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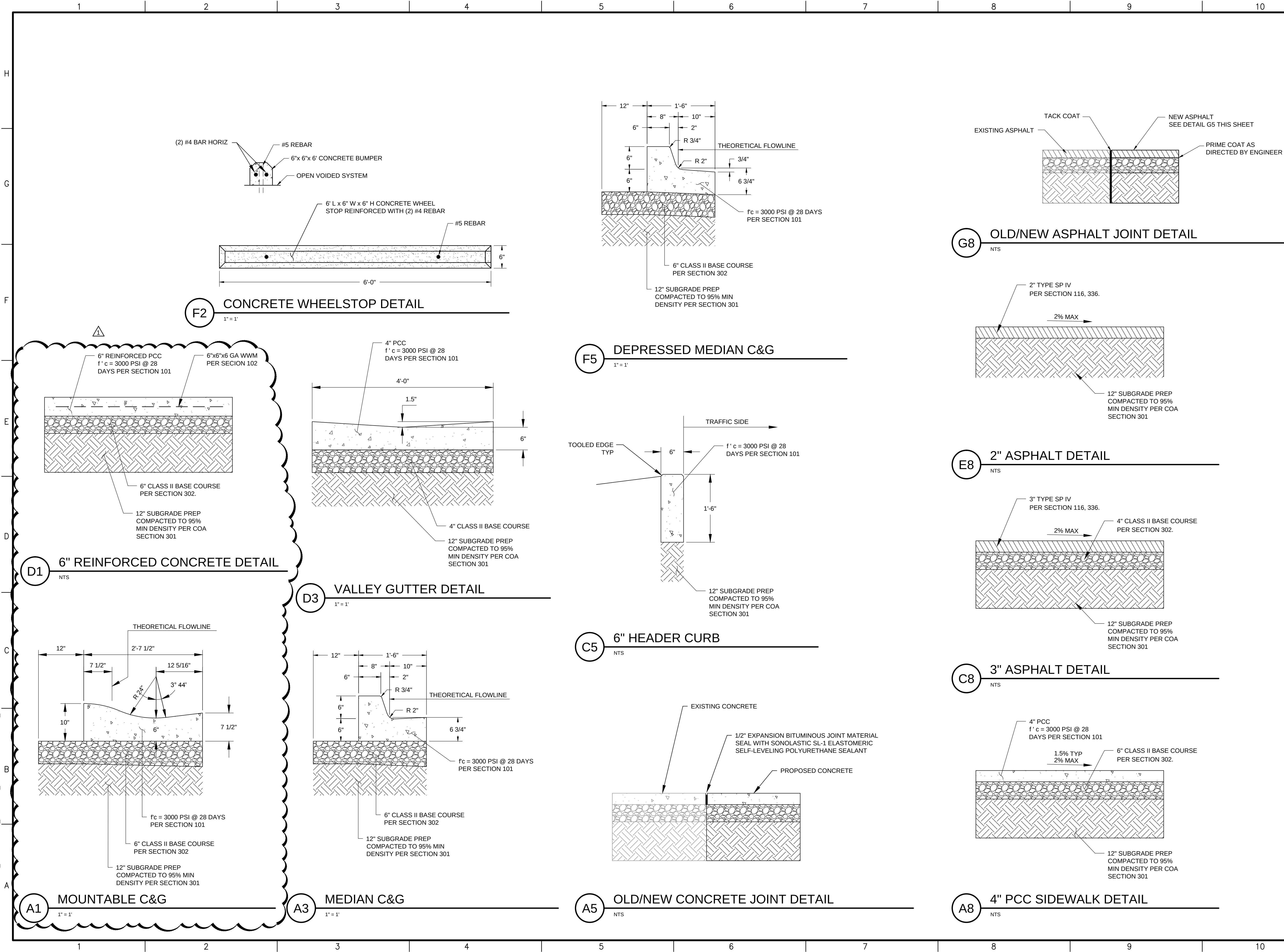
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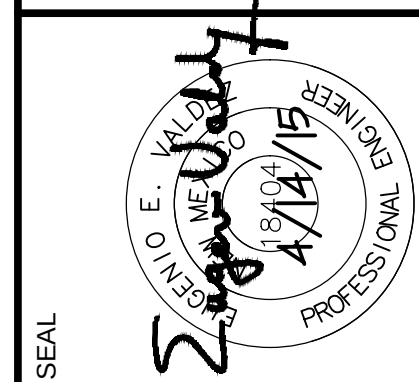
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FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

CONSULTANTS



SEAL

CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

PROJECT NAME

NO.	DATE	DESCRIPTION	BY
04/14/15			

PROJECT NO: 1460011400
DESIGNED BY: MJJ
DRAWN BY: JEM
CHECKED BY: MJJ
DATE: FEB 2015

SHEET TITLE

SITE DETAILS

SHEET NO:

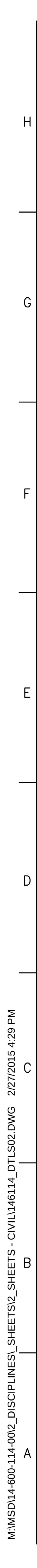
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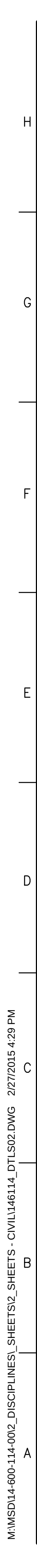
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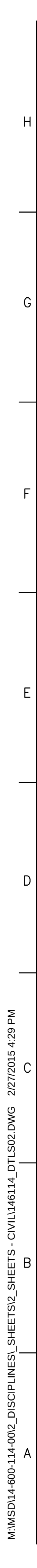
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- MMSD14-600-114-002_DISCIPLINES_SHEETS - CIVIL146114_DTLS02.DWG 2/27/2015 4:29 PM







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ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

CONSULTANTS

PROJECT NAME

CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION



SEAL

PROJECT NO:	1460011400	REV	DATE	DESCRIPTION	BY
DESIGNED BY:	MJM				
DRAWN BY:	JEM				
CHECKED BY:	MJM				
DATE:	FEB 2015				

SHEET TITLE

SITE DETAILS

SHEET NO:

C-503

	PROJECT NAME	SEAL	CONSULTANTS
SH			
	SI		
	DA		
	CH		
	DE		
	PR		

	PROJECT NAME	SEAL	CONSULTANTS
SH			
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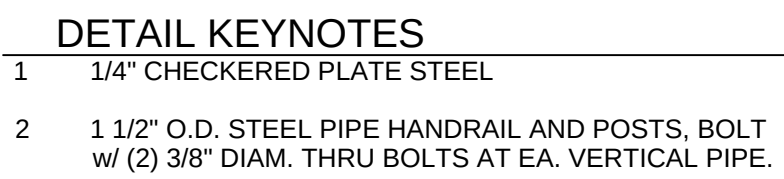
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	PROJECT NAME	SEAL	CONSULTANTS
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ELEVATION

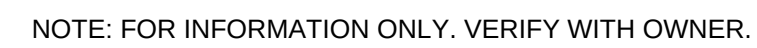


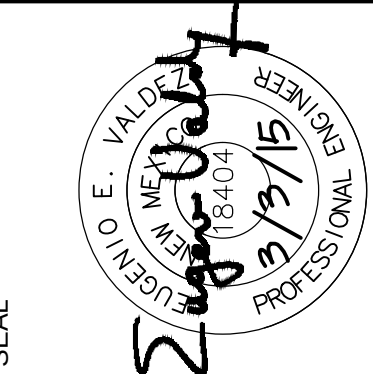
Diagram illustrating the foundation and water service connection for a portable classroom building. The diagram shows the building's perimeter support beam, the finished grade, and the 18"x36" corrugated HDPE pipe. A 1" water (PEX) service piping is shown with a 1" ball valve. The connection is made using a 1" PEX to copper adapter. The diagram also indicates the 30" minimum bury depth and the existing water service field verify size.

Labels in the diagram include:

- METAL "METER CAN" RING WITH LOCKABLE LID
- FINISHED GRADE
- 30" MIN BURY
- 18"x36" CORRUGATED HDPE PIPE
- 1" WATER (PEX) SERVICE PIPING
- 1" BALL VALVE
- PERIMETER SUPPORT BEAM
- INSTALL PEX TO COPPER ADAPTER
- EXISTING WATER SERVICE FIELD VERIFY SIZE
- PORTABLE CLASSROOM BUILDING

[illegible]

0 1 0 1 10



CHAPARRAL ELEMENTARY SCHOOL PORTABLE RELOCATION

[illegible]

PROJECT NO:	1460011400
DESIGNED BY:	MJI
DRAWN BY:	JEM
CHECKED BY:	MJI
DATE:	FEB 2015

SHEET TITLE

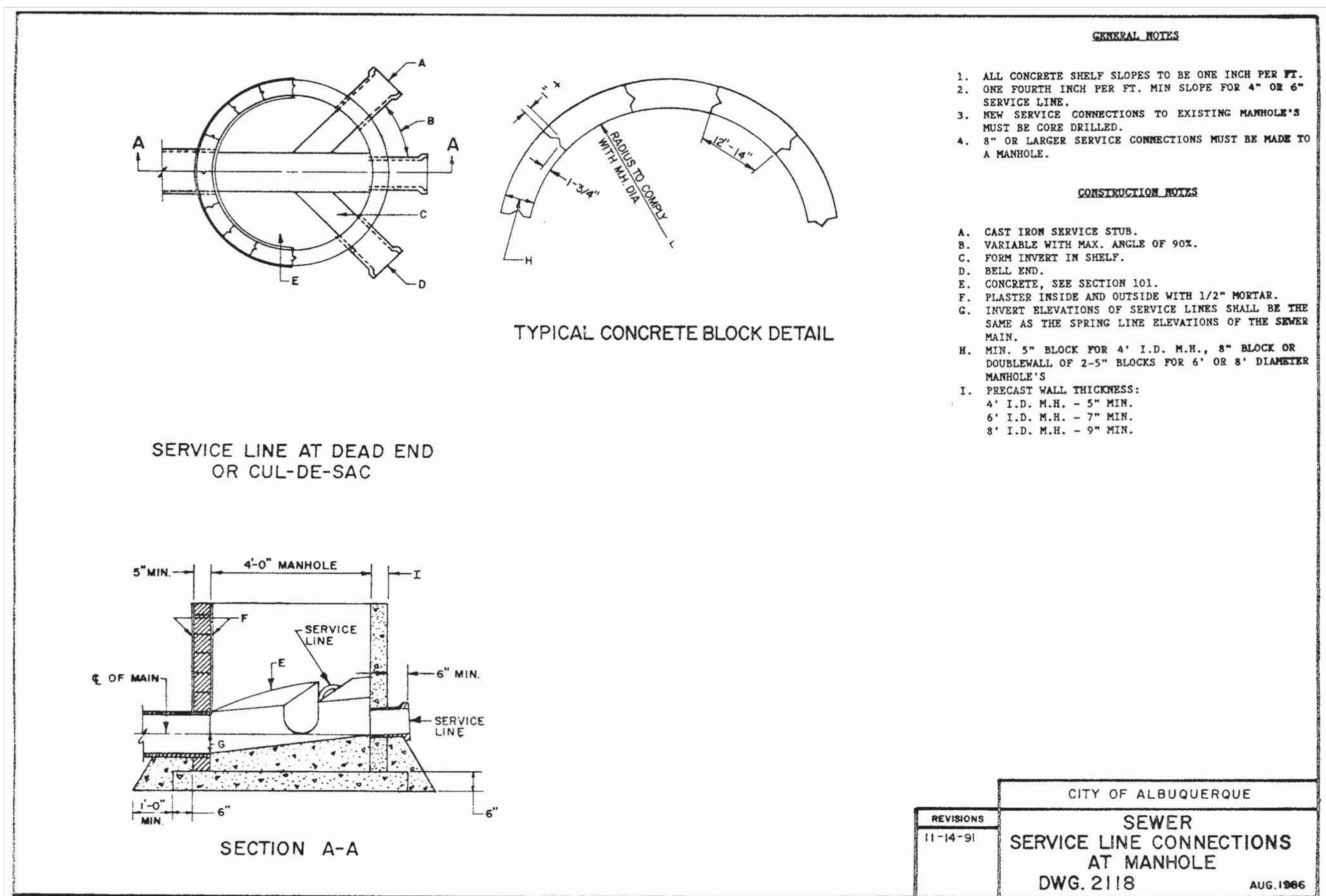
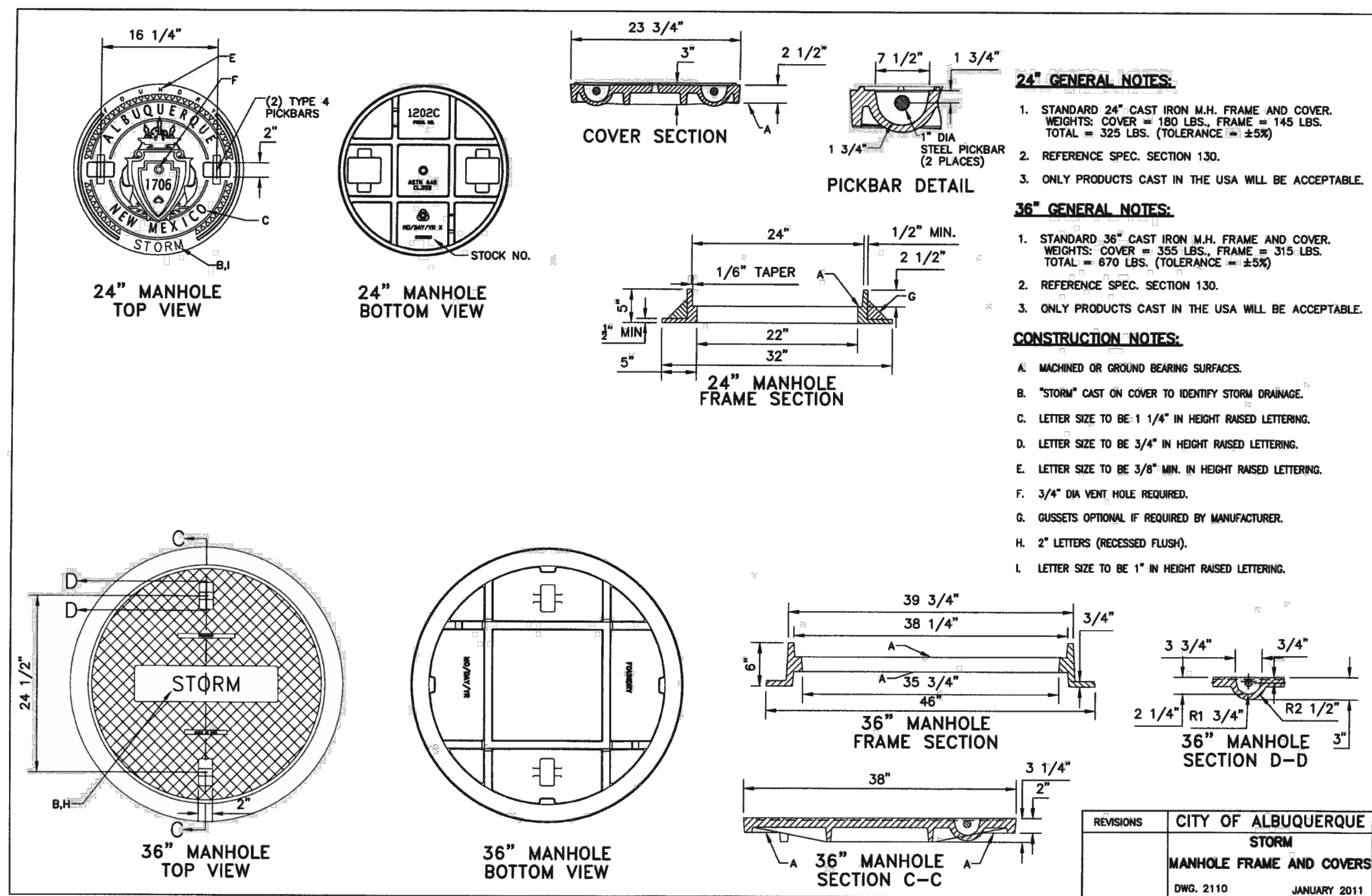
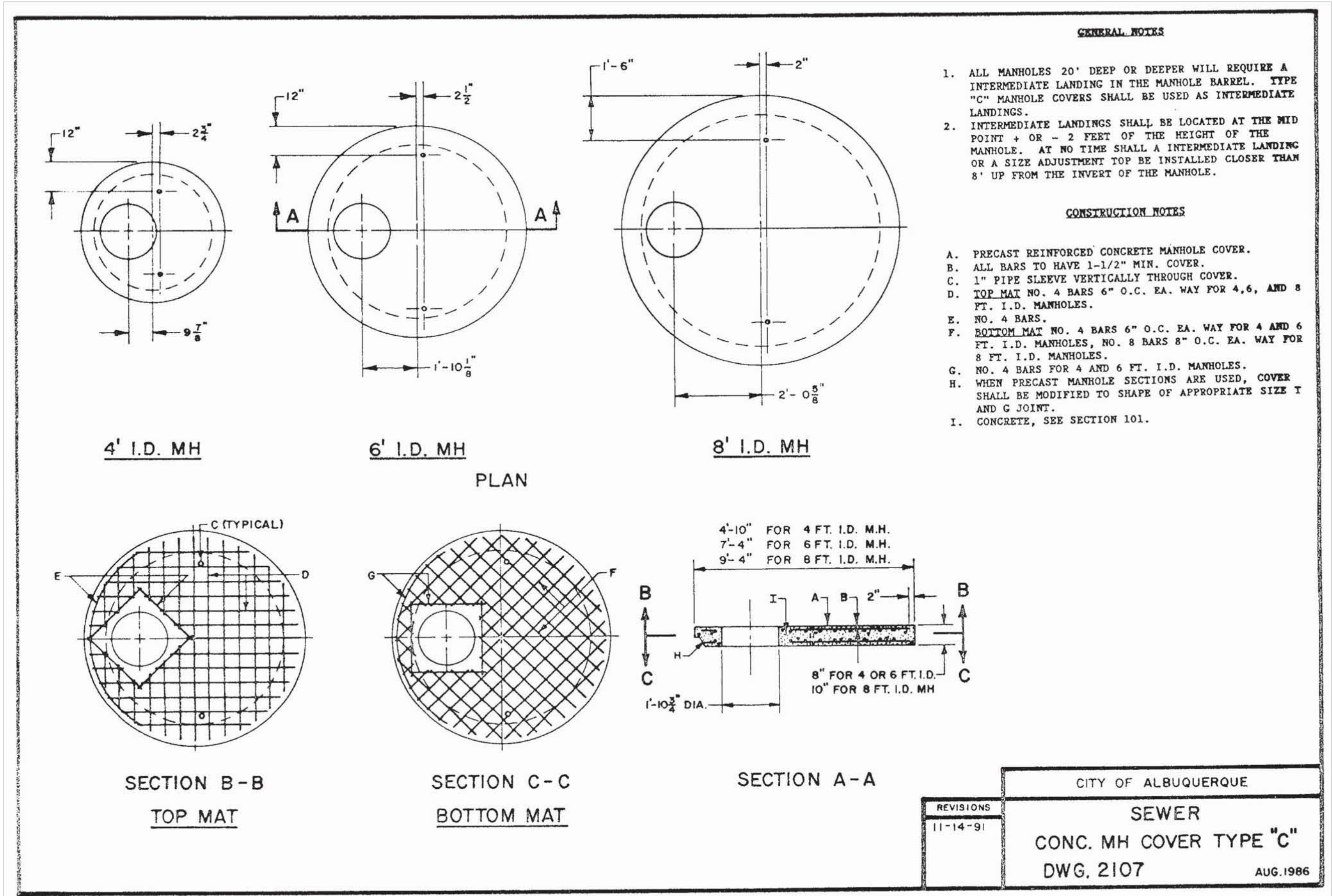
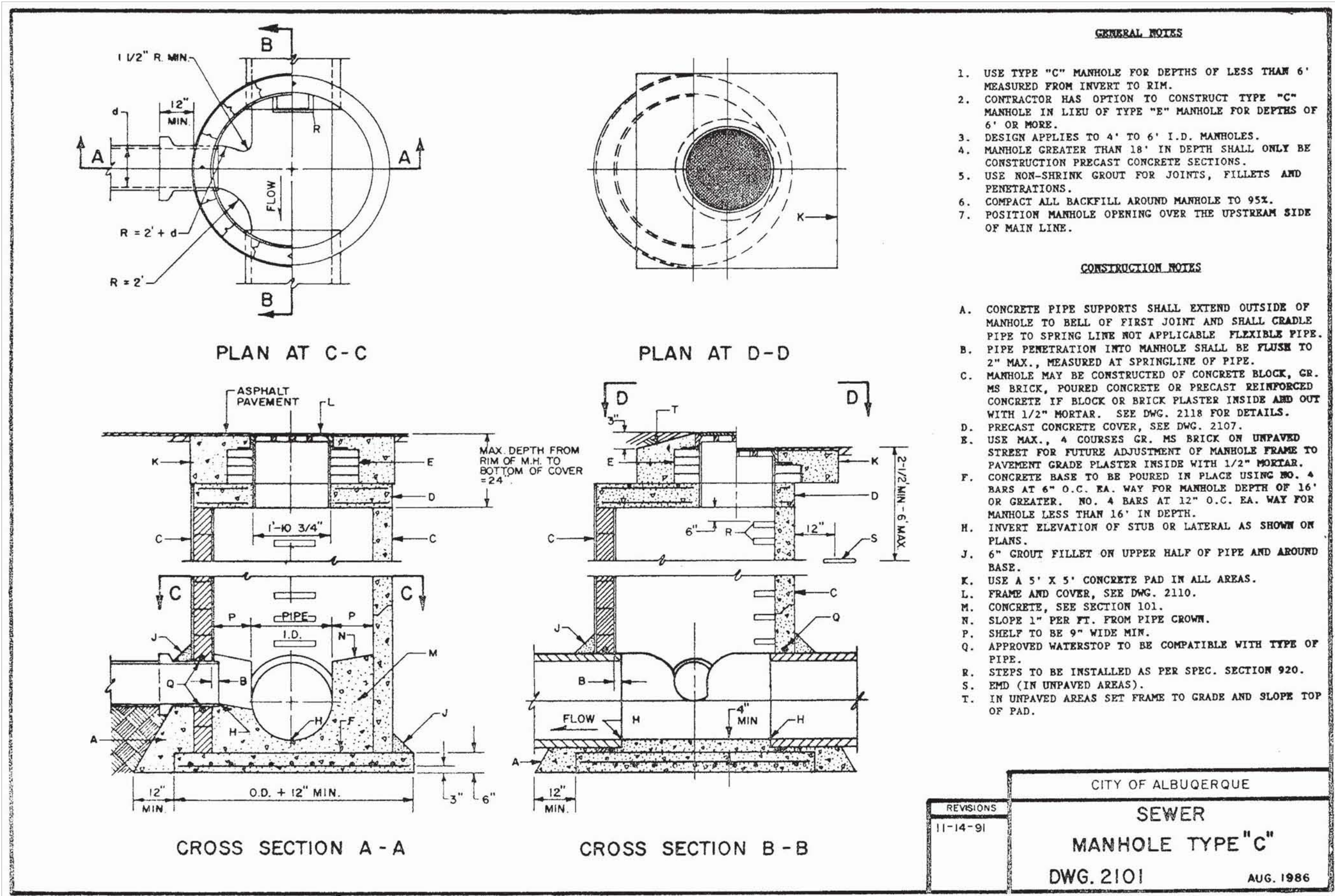
SITE DETAILS

SHEET NO:

C-504

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FAX: 505-348-4155 SECOND FLOOR
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SEAL

CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1460011400
DESIGNED BY: MJJ
DRAWN BY: JEM
CHECKED BY: MJJ
DATE: FEB 2015

SHEET TITLE

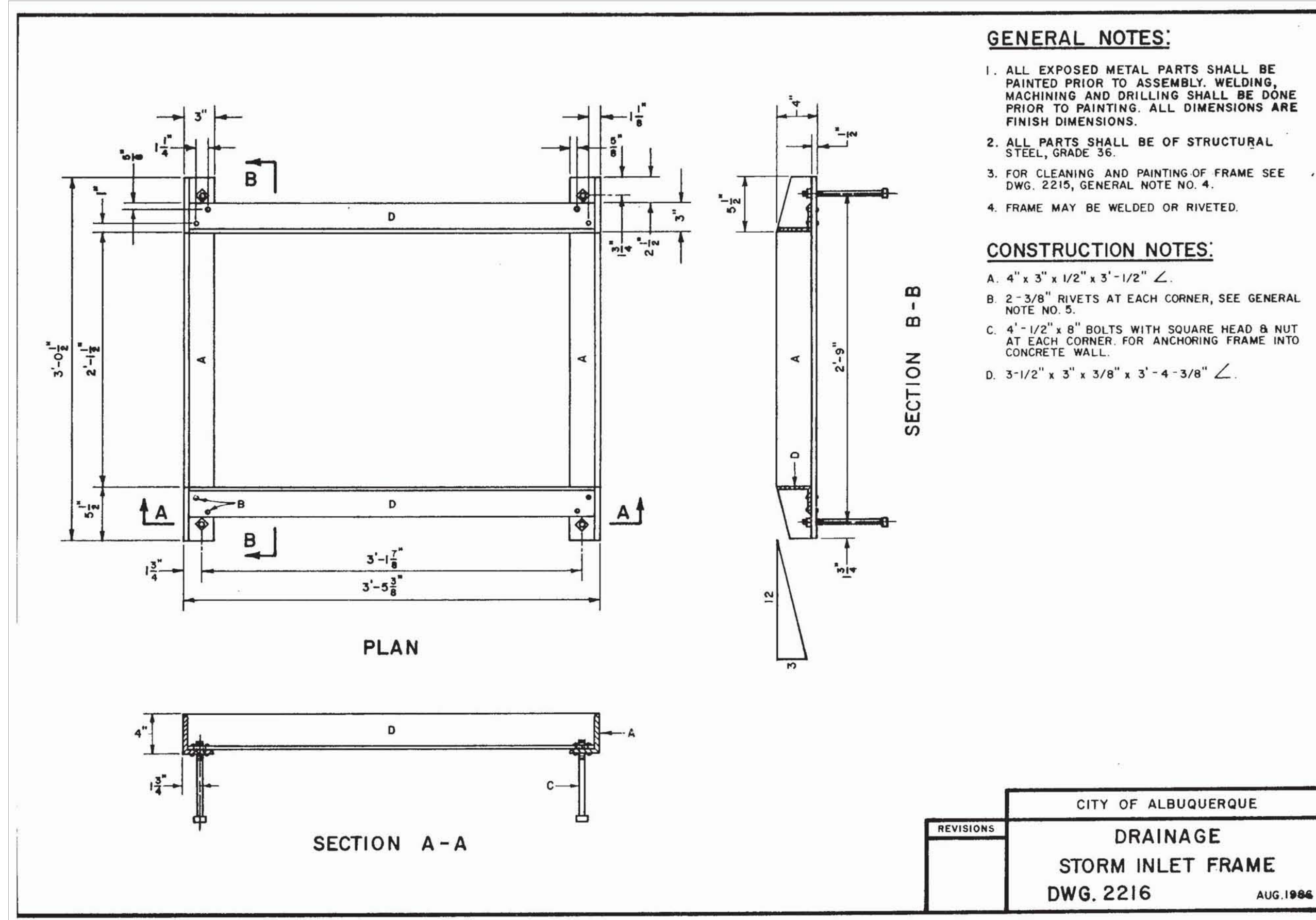
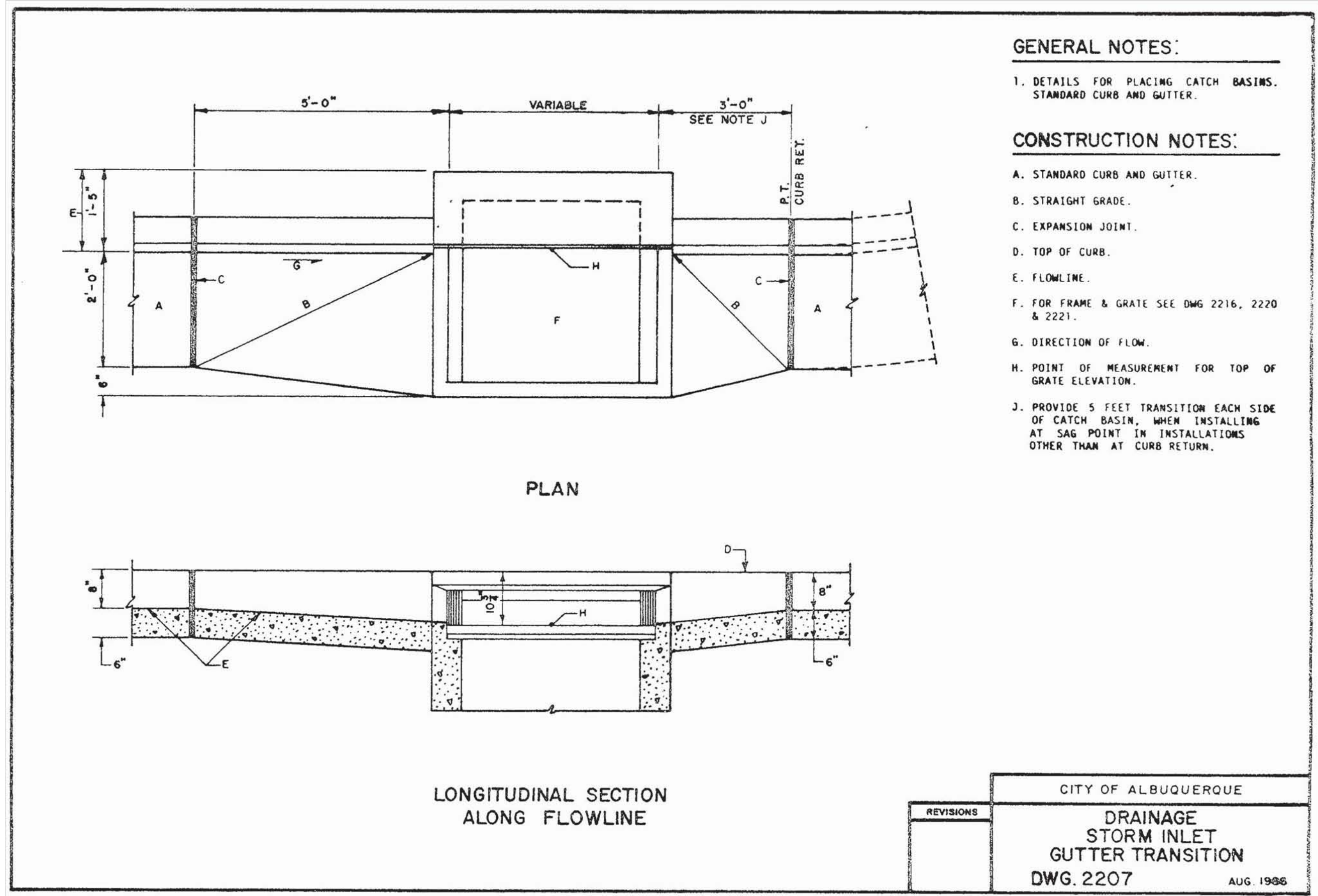
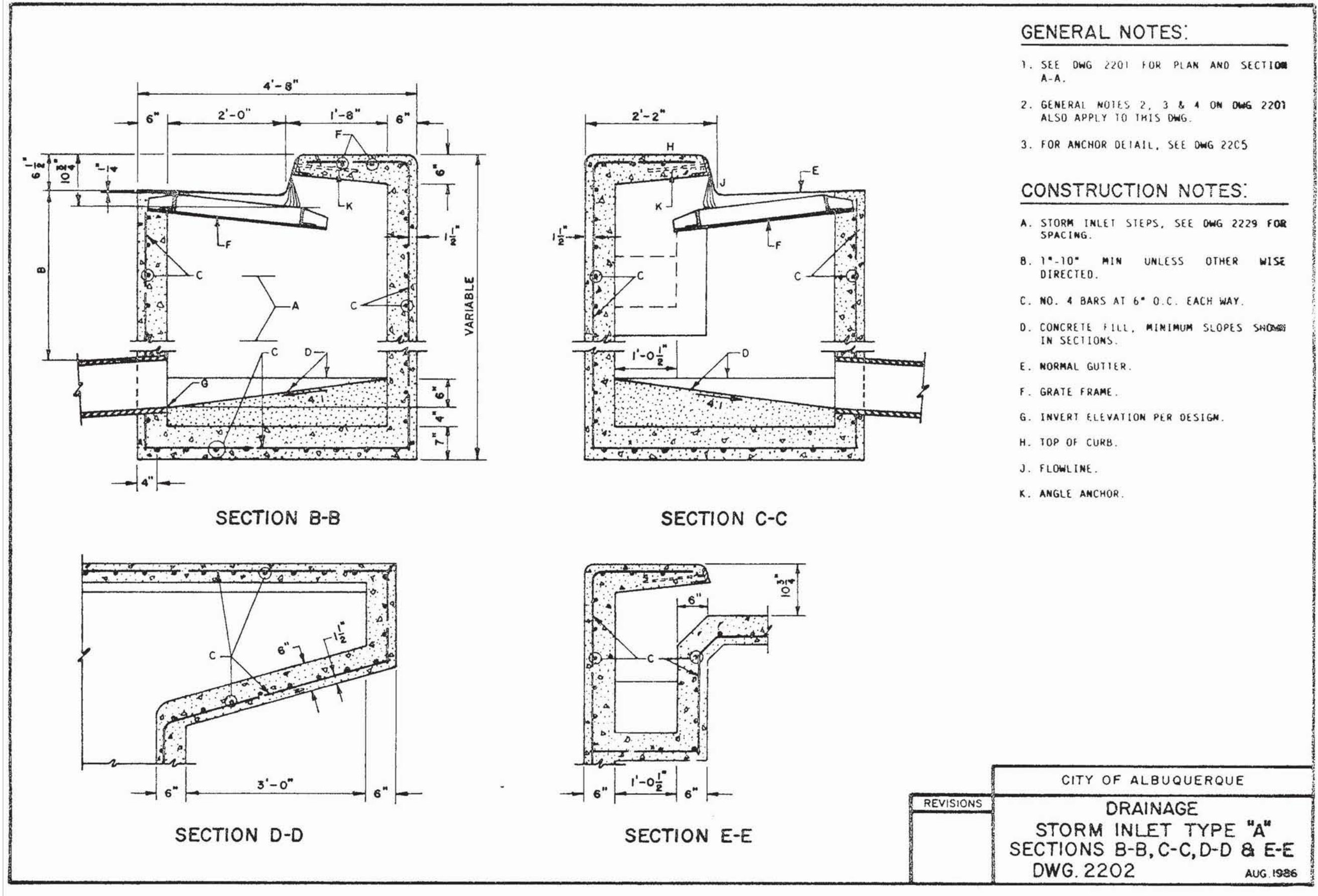
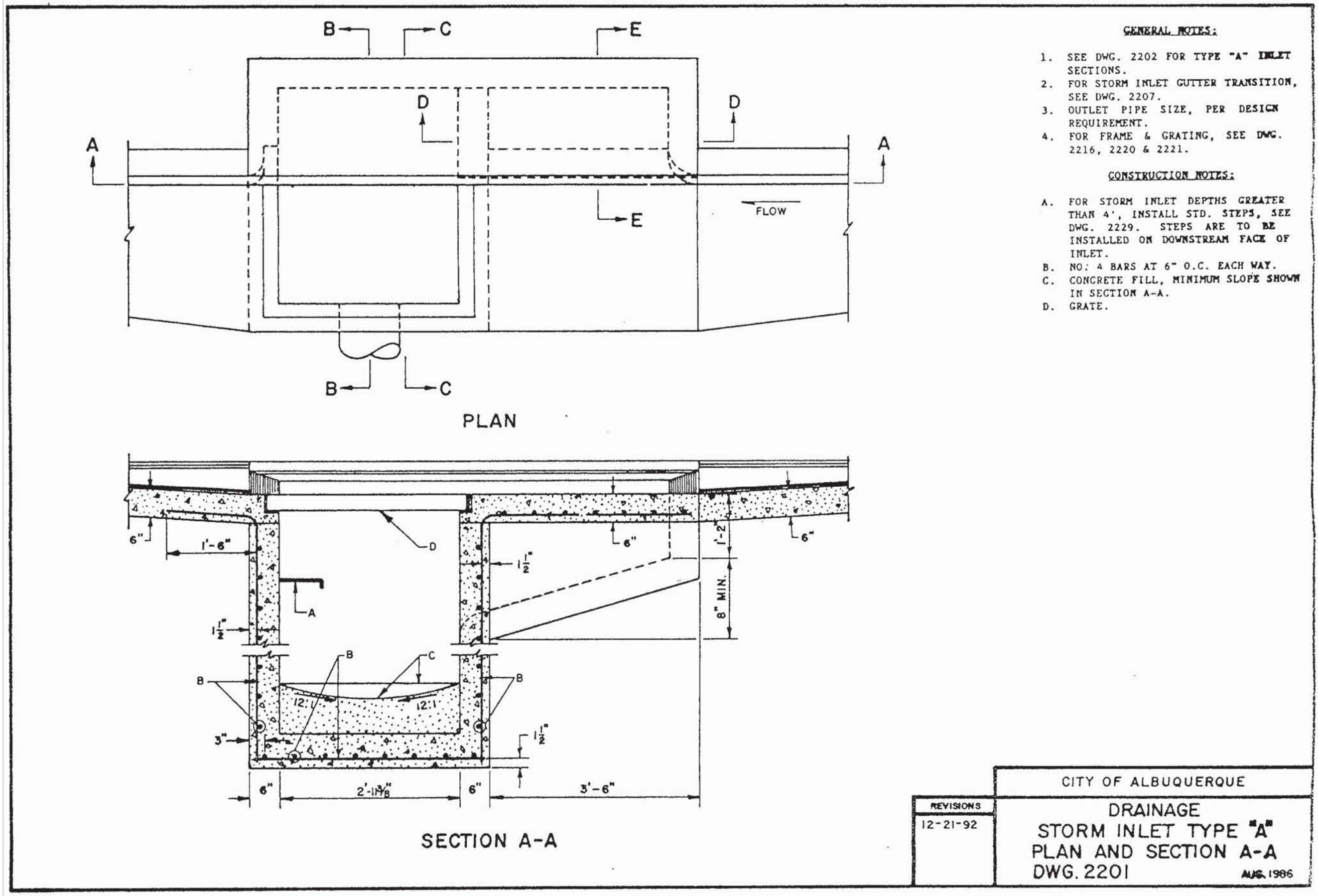
SITE DETAILS

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C-505

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PROJECT NAME

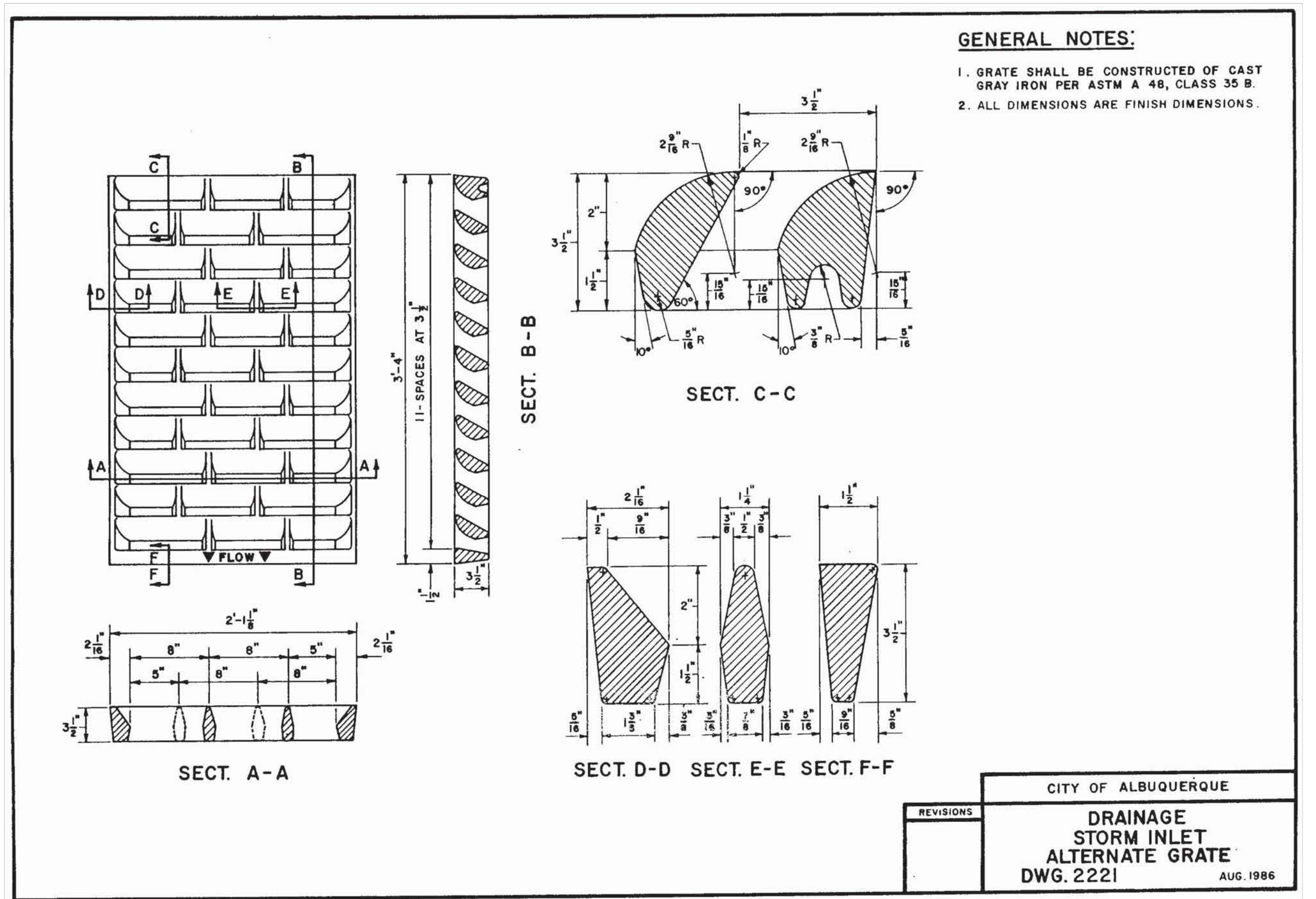
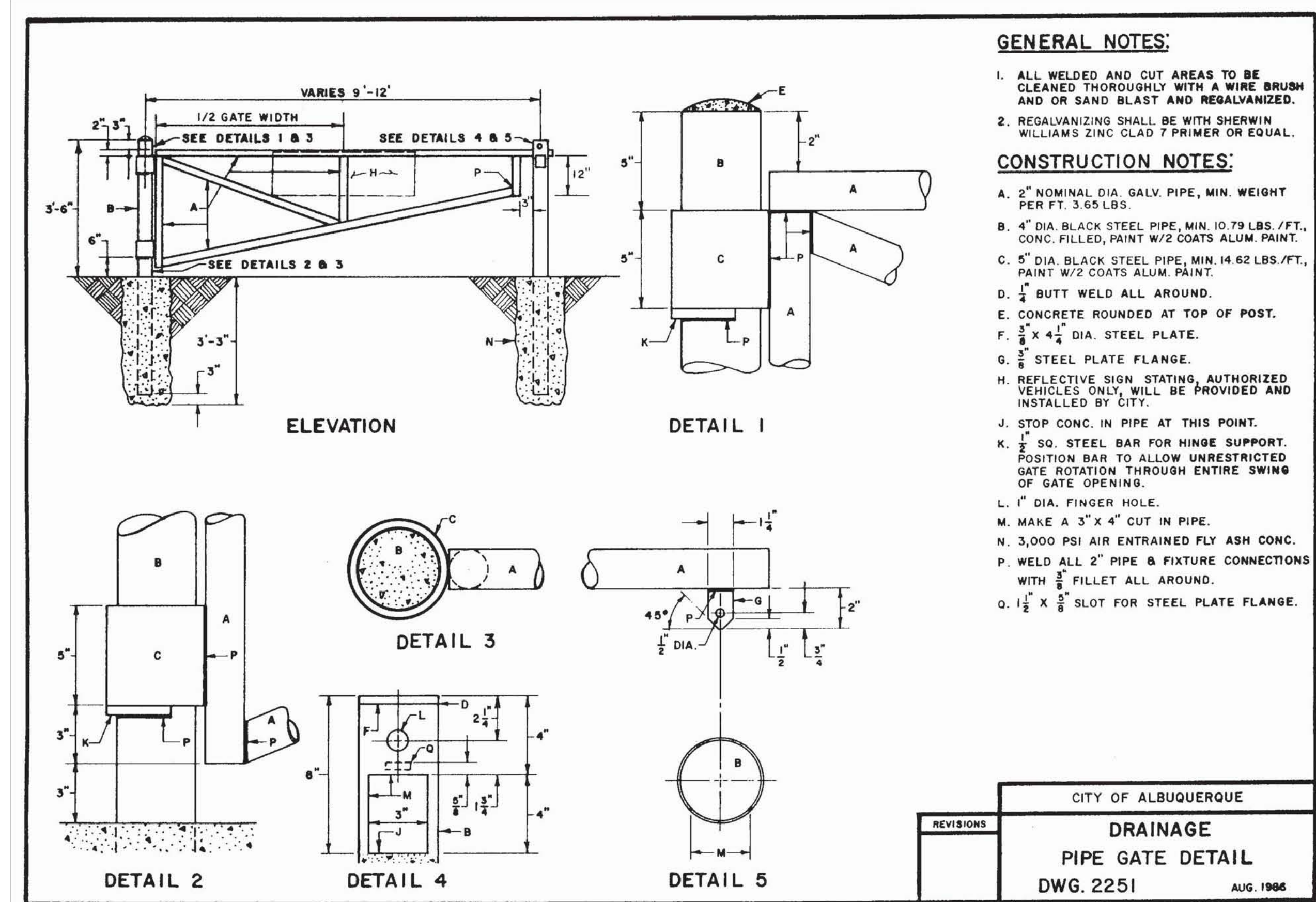
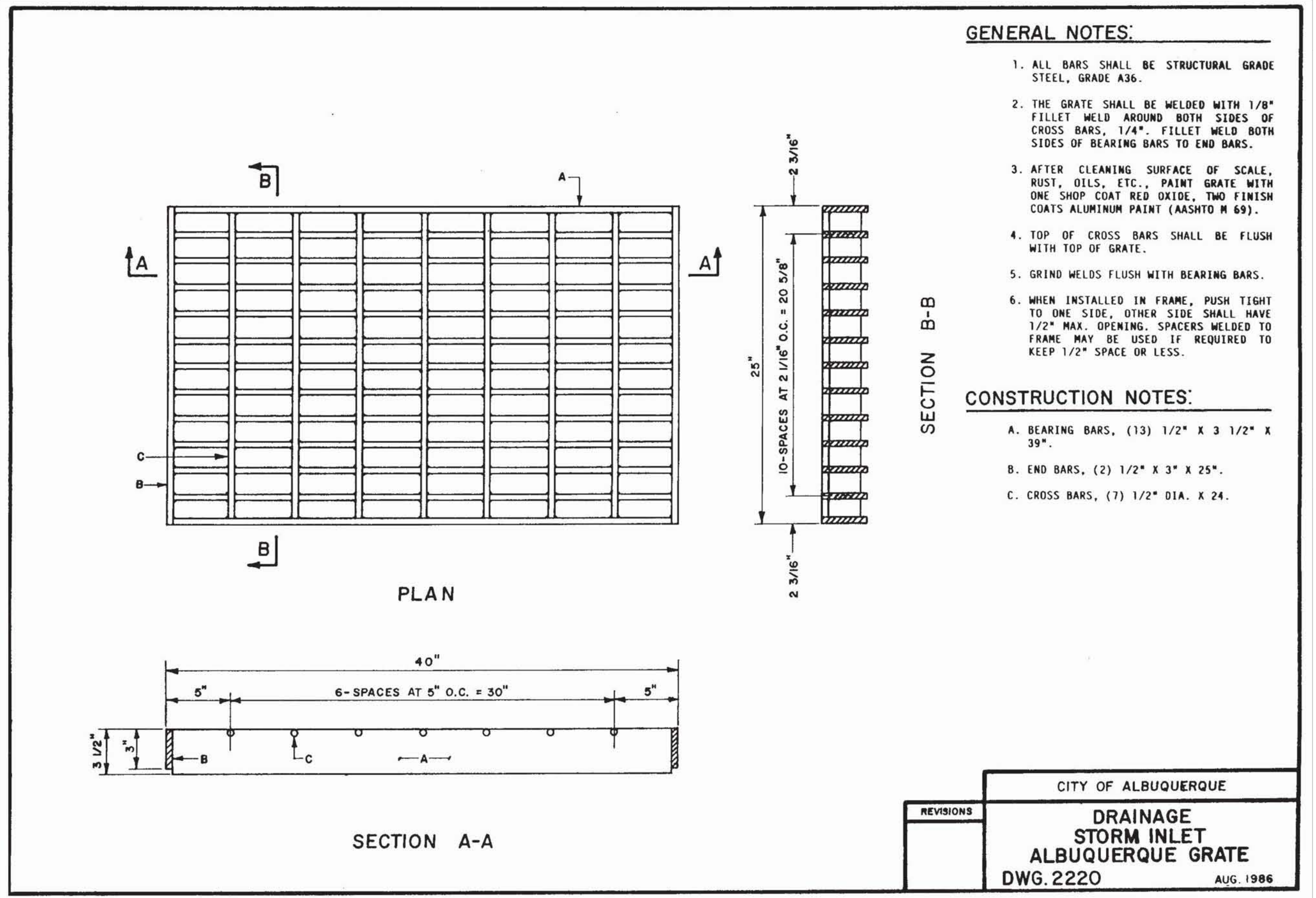
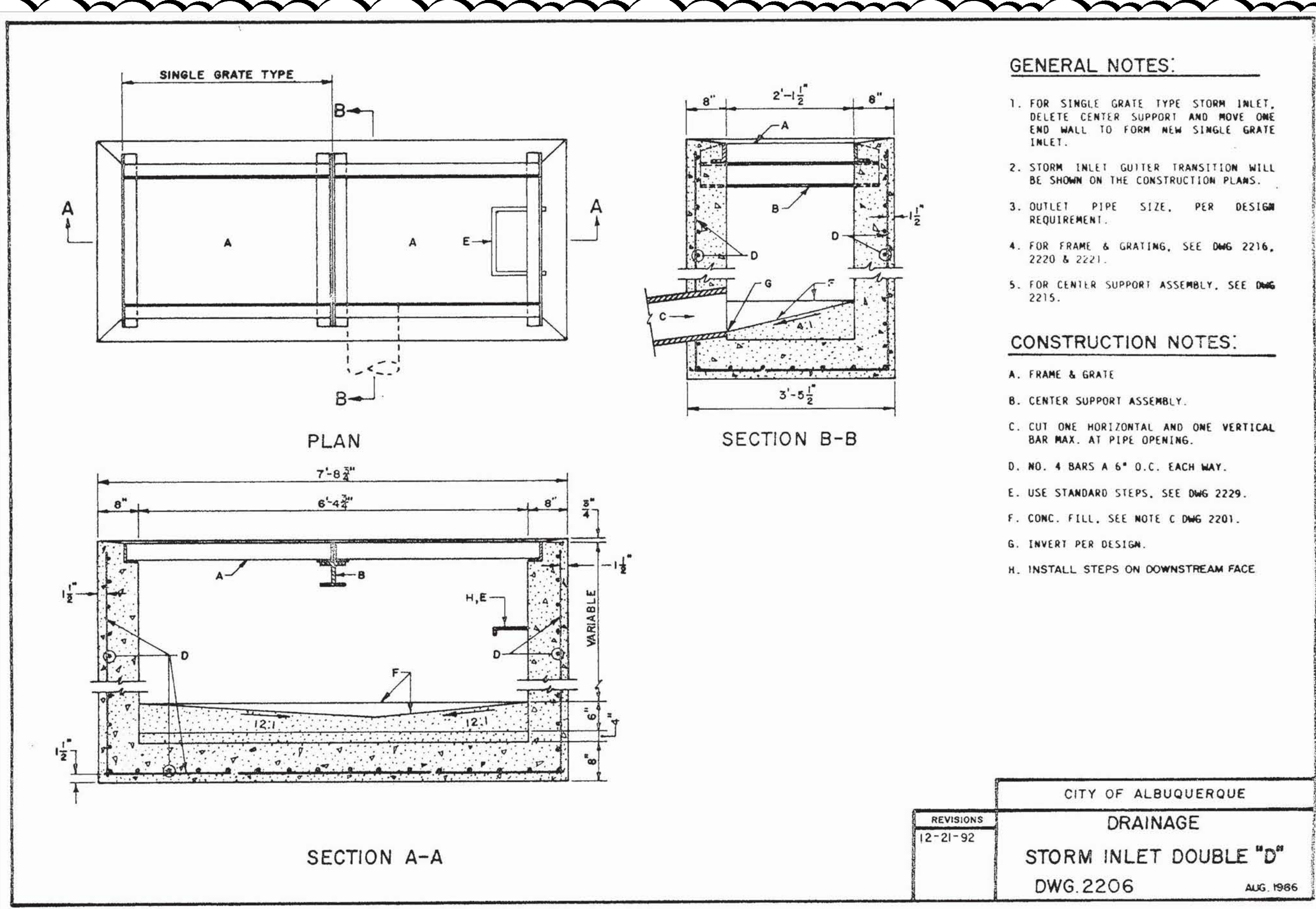
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015

SHEET TITLE
SITE DETAILS
SHEET NO:
C-506

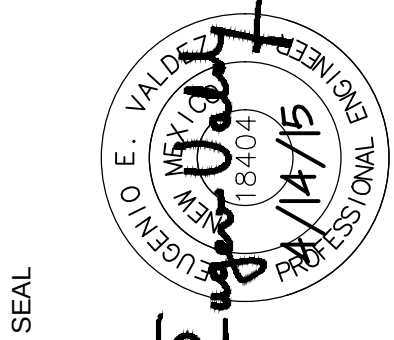
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CHAPARRAL ELEMENTARY SCHOOL
PORTABLE RELOCATION

PROJECT NAME

NO.	DATE	REVISION	DESCRIPTION	BY
04/14/15				

PROJECT NO: 1460011400
DESIGNED BY: MJI
DRAWN BY: JEM
CHECKED BY: MJI
DATE: FEB 2015

SHEET TITLE

SITE DETAILS

SHEET NO:

C-507R

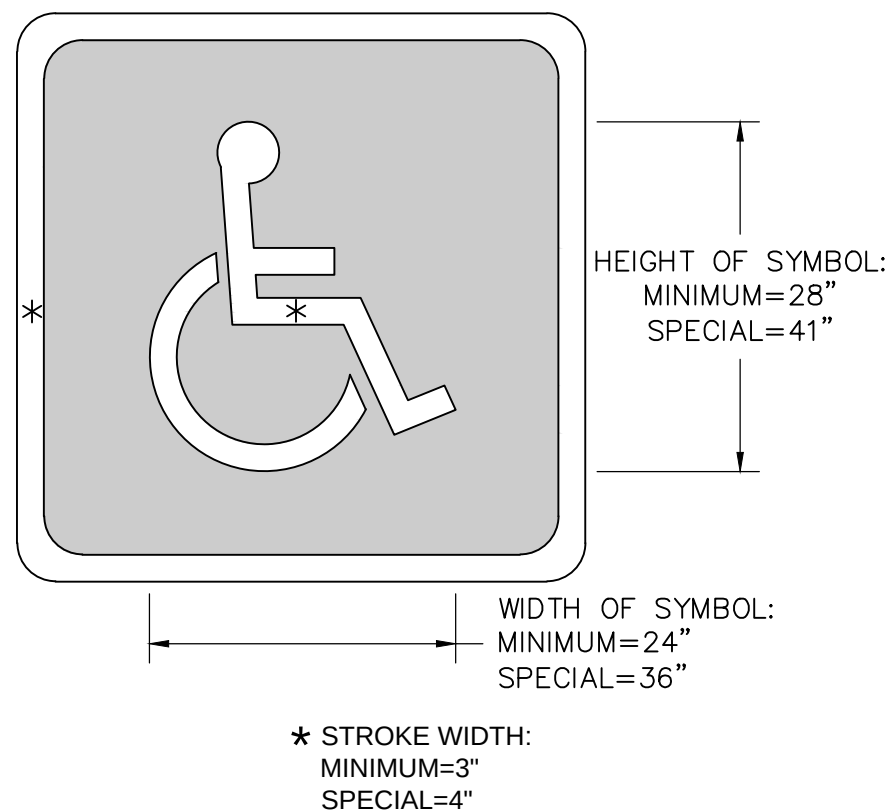
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GENERAL NOTES:

- GATE TO BE USED AS SPECIFIED ON CONSTRUCTION DRAWINGS FOR DRAINAGE EASEMENT BARRICADE, SEE DWG 2251 OR DWG 2253.
- SINGLE LEAF GATES WILL BE USED ON OPENINGS OF 12" OR LESS. FOR MORE THAN 12" DOUBLE LEAF GATES SHALL BE USED, WITH A CENTER LOCK POST INSERTED IN A PIPE SLEEVE IN CENTER OF OPENING.
- DIMENSIONS ABOVE OR BELOW GRADE LEVEL WILL BE ON CONSTRUCTION DRAWINGS. IF NONE ARE NOTED, MESH IS FLUSH WITH GRADE LEVEL.
- ALL METAL ITEMS, INCLUDING PIPE, SHALL BE GALV STEEL. ALL PIPE SHALL BE NOMINAL SIZE, SCHEDULE 40.

CONSTRUCTION NOTES:

- GATE LATCH WITH VANDAL PROOF SHIELD & PADLOCK (PADLOCK TO BE FURNISHED BY THE APS).
- 2- 3/8" TRUSS RODS, WELDED AT CORNERS.
- 2- 3/8" THREADED TRUSS RODS AND BRACKET ATTACHMENT.
- 2" NO 9 GAUGE CHAIN LINK GALV WIRE FABRIC.
- STEEL TENSION BANDS AT 18" OR LESS OC.
- BRACE, 1 1/4" DIA, WELDED TO FRAME.
- GATE FRAME, 2" DIA (2.375 OD) WELDED.
- MALLEABLE ACORN CAP.
- 4" J-BOLT, THREADED.
- 3 1/2" GATE POST (4" OD) WITH WELDED STEEL CAP.
- TENSION BAR 1/4" X 3/4".
- GATE CLAMP.
- 12" DIA HOLES, FILLED WITH PORTLAND CEMENT CONC.
- CORNER POST 2 1/2" DIA (2.875 OD).
- LINE POST 2" DIA (2.375 OD).
- TOP AND BRACE RAILS 1 1/4" DIA (1.660 OD).
- WIRE REINFORCEMENT, 9 GAUGE, INSTALL 3" ABOVE BOTTOM OF FABRIC.
- TRUSS ROD 3/8" DIA.
- FABRIC SHALL BE TACK WELDED TWO PLACES TO EACH TENSION BAR AND THREE PLACES TO ALL TOP AND BRACE RAILS BETWEEN POSTS.
- ALL NUTS, BOLTS, AND OTHER CONNECTIONS SHALL BE TACK WELDED.
- WIRE TIES, 9 GA GALV STEEL AT 18" OC.



NOTE:
BLUE BACKGROUND AND
WHITE BORDER ARE OPTIONAL

SOURCE: MUTCD, 2009 EDITION

F5

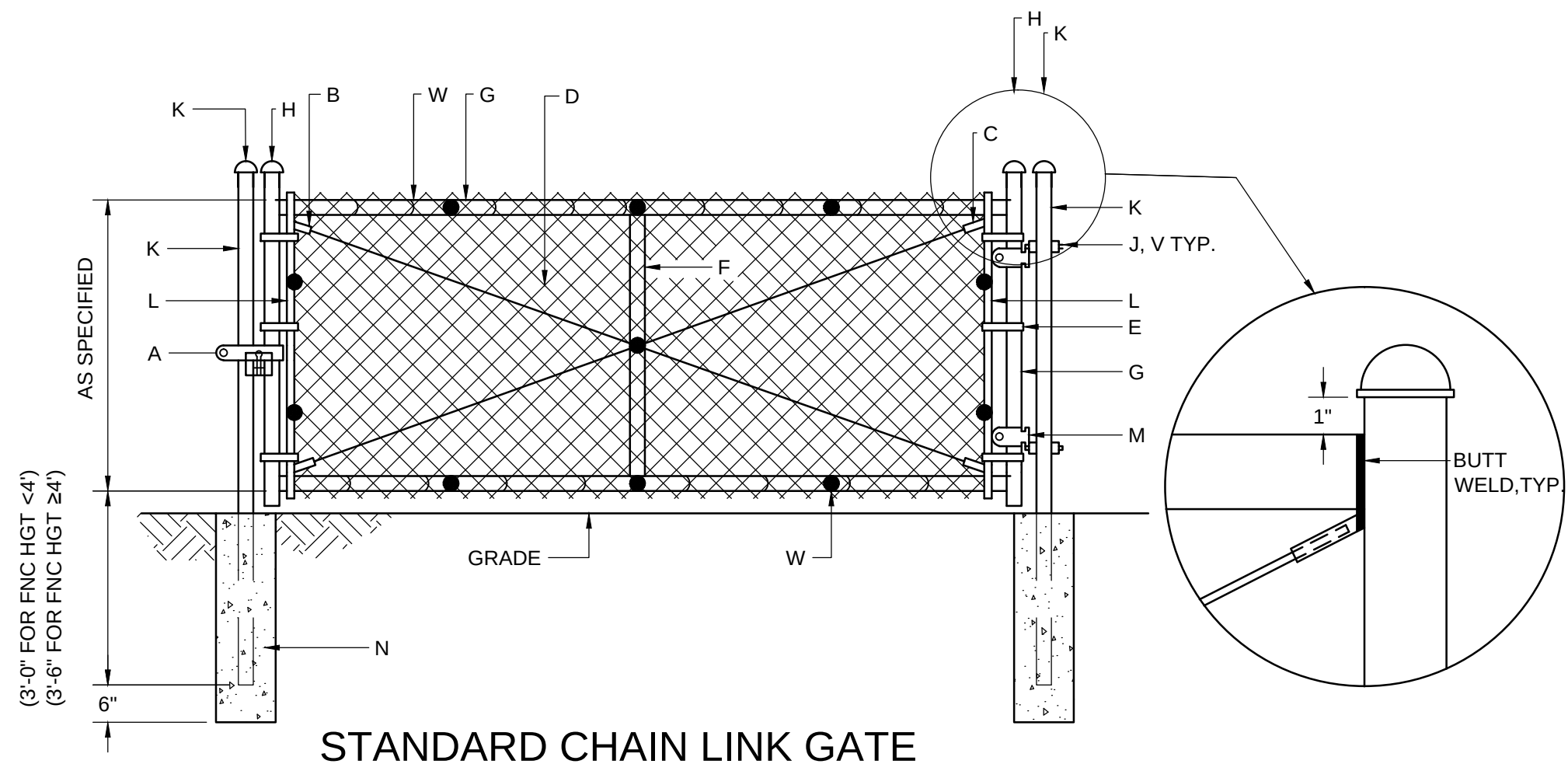
INTERNATIONAL SYMBOL OF ACCESSIBILITY

NTS

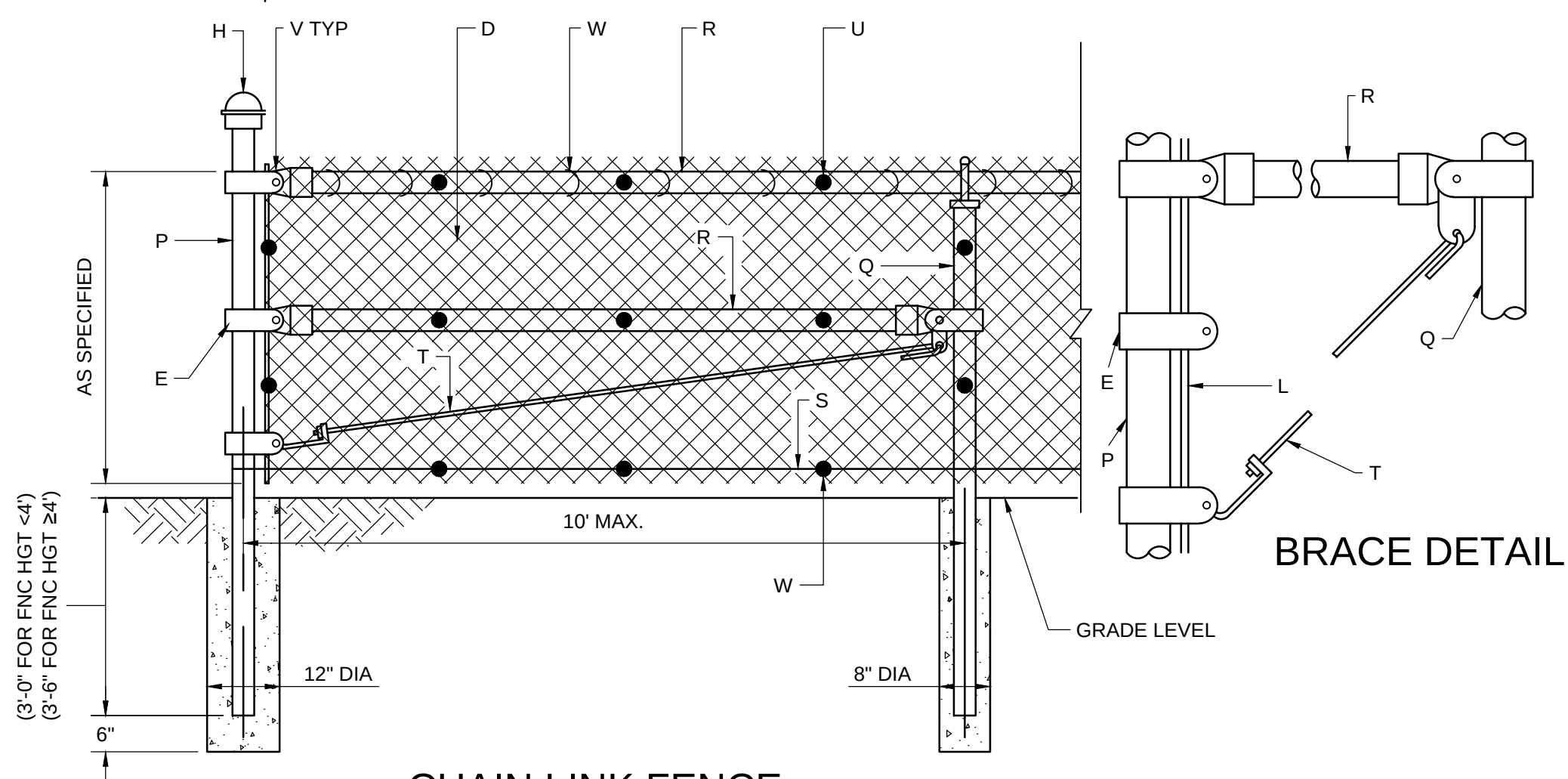
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ADA SIGN FACE DETAIL

NTS



STANDARD CHAIN LINK GATE

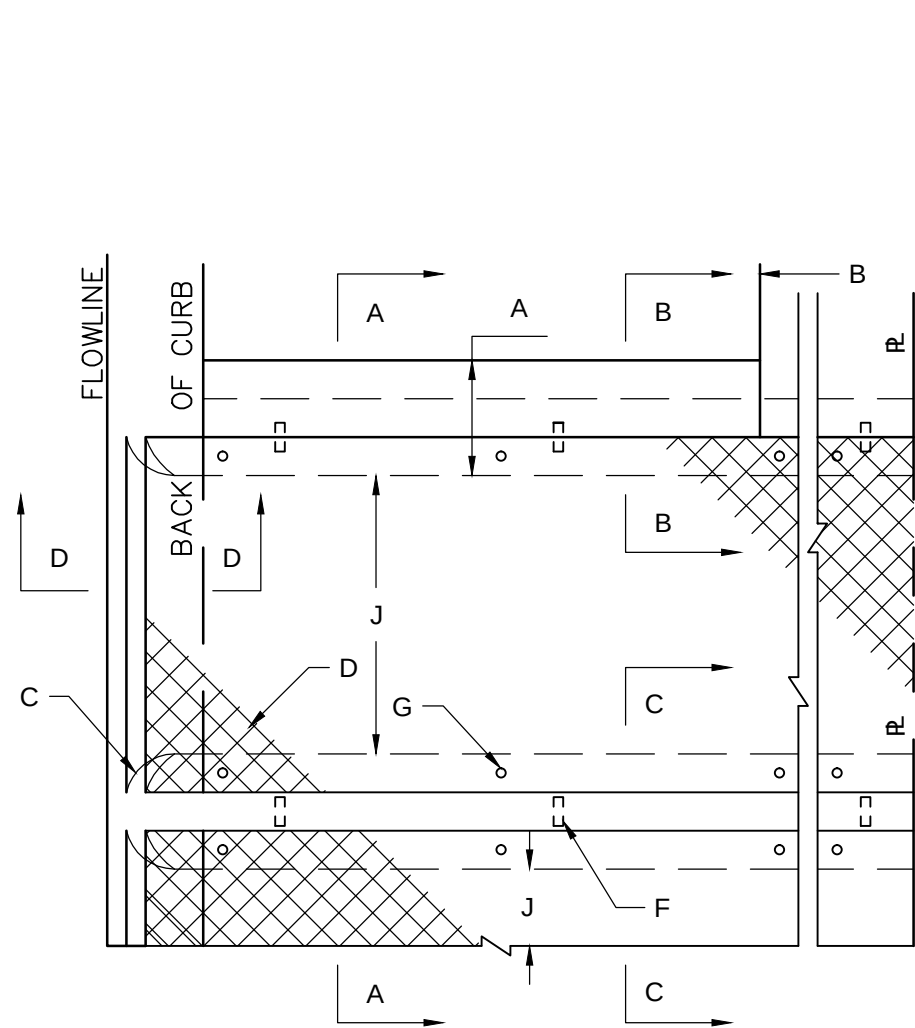


CHAIN LINK FENCE

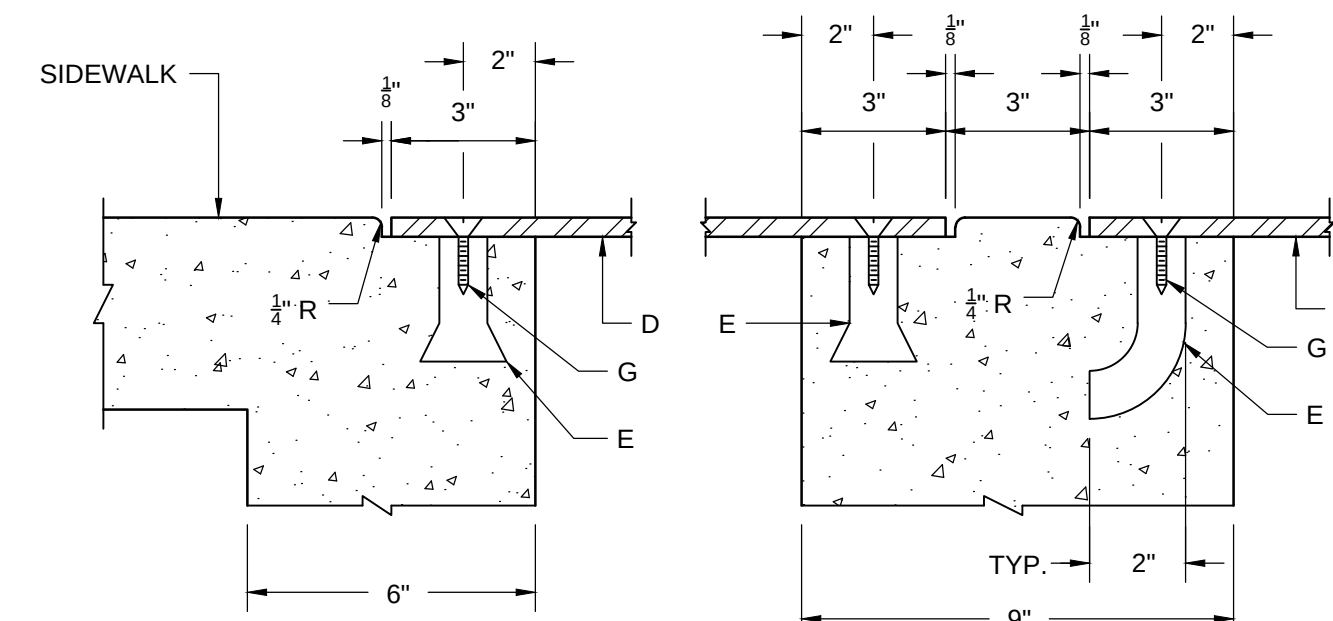
A1

CHAIN LINK FENCE AND GATE DETAIL

1" = 1'



PLAN
SINGLE AND OR MULTIPLE CULVERT



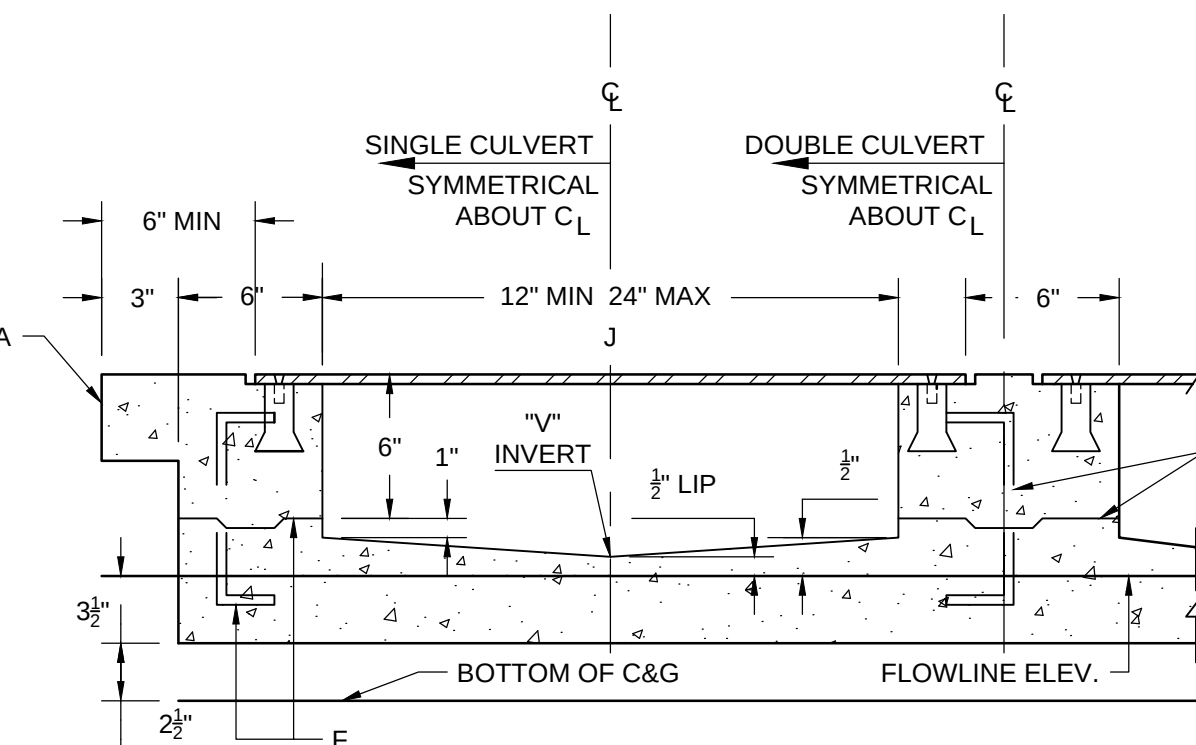
SECTION B-B

SECTION C-C

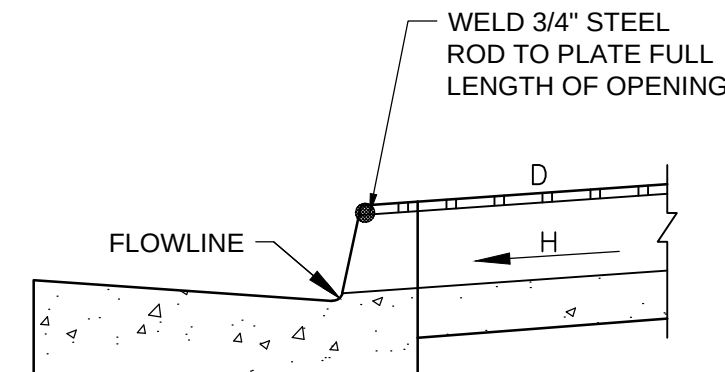
A5

SIDEWALK CULVERT (COA STD DWG 2236)

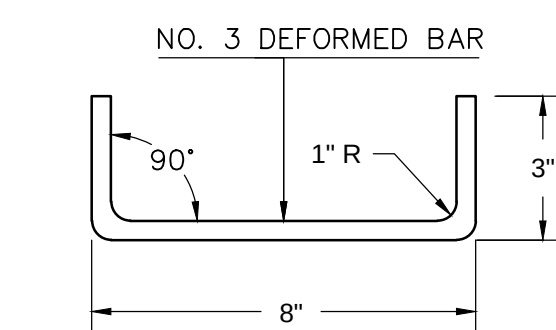
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SECTION A-A



SECTION D-D



DOWEL DETAIL

GENERAL NOTES:

- PLACING OF DRAIN THRU EXIST SIDEWALK AND CURB & GUTTER REQUIRES THAT ENTIRE SIDEWALK AND CURB & GUTTER BE REMOVED AND REPLACED AS DETAILED HEREIN.
- BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
- THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
- ALL EXPOSED CONC SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
- SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
- IF ROD ANCHORS ARE USED, DRILL & TAP FOR FH MACHINE SCREW. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
- LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
- THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FRO PRIVATE PROPERTY OWNERS.

CONSTRUCTION NOTES:

- MATCH NEAREST CONTROL JOINT, INSTALL 1/2" EXPANSION JOINT.
- EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- 3" RADIUS (TYPICAL).
- 3/8" CHECKERED STEEL PLATE (PAINT PER NOTE 7, ABOVE).
- FOR SECURING PLATE USE 1" X 5" SS ROD ANCHOR, "RED HEAD MULTI-SET II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX 24" OC. A MINIMUM OF 2 PER SIDE AND ONE WITHIN 6" OF EACH END.
- CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" OC MAX, 1/2" MINIMUM FROM FACE OF CONCRETE.
- 3/8" - 16 X 1 1/2" COUNTERSINK, FH STAINLESS STEEL, MACHINE SCREW.
- SLOPE 1/4" PER FT MIN
- DRAIN WIDTH PER PLAN (12" MIN, 24" MAX).

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PROJECT NAME

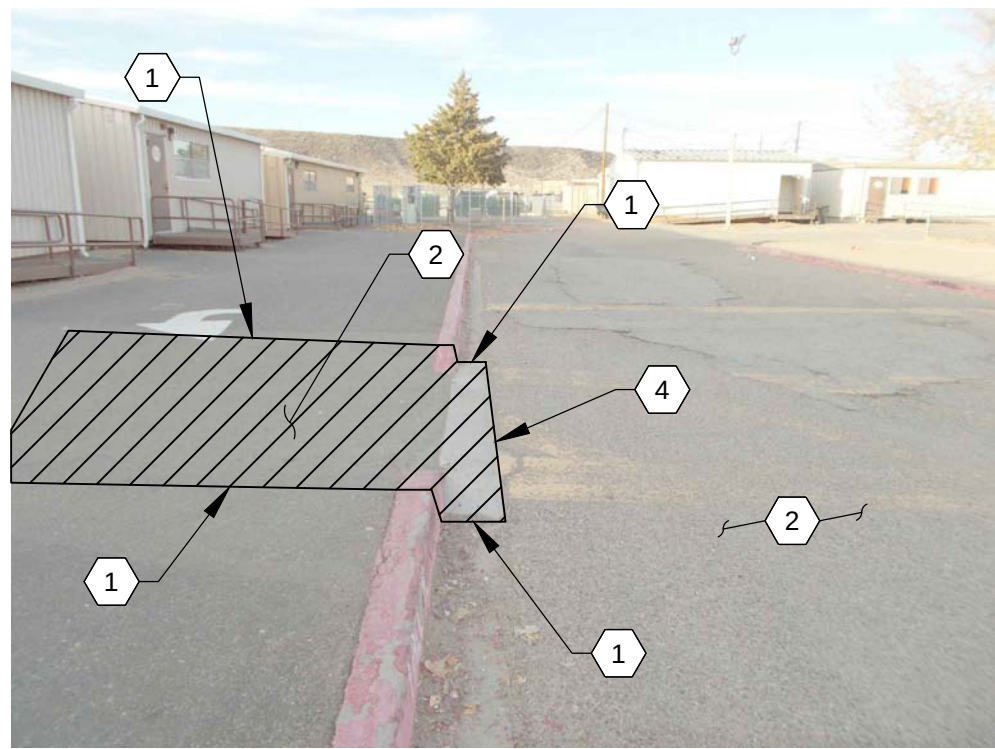
CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

REV.	DATE	DESCRIPTION	BY

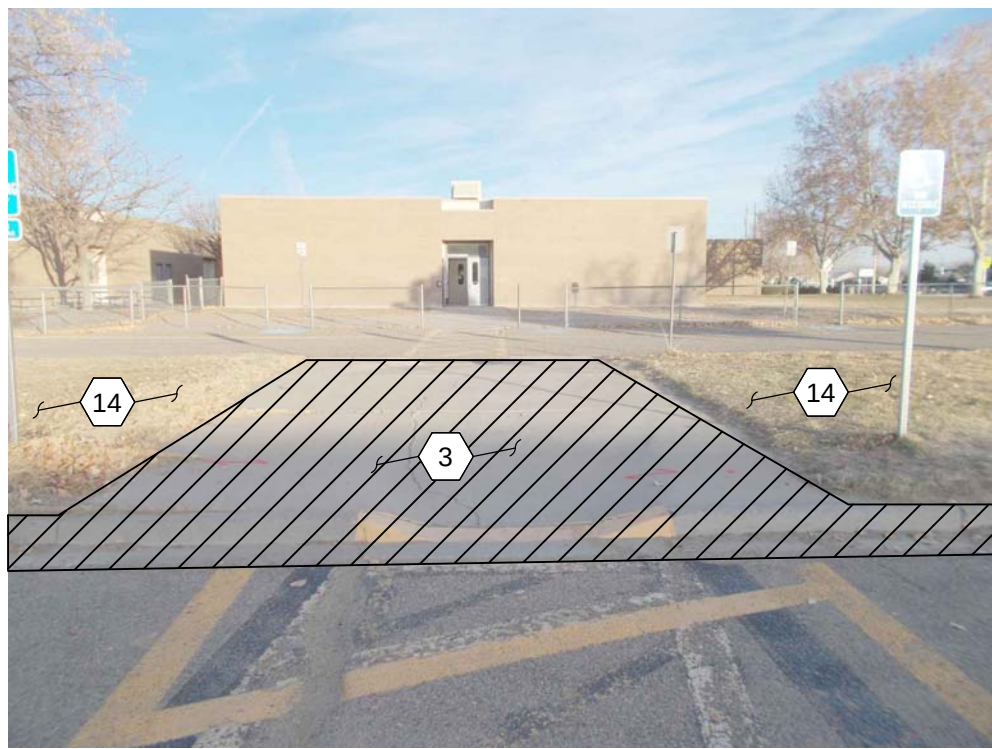
PROJECT NO:	1460011400
DESIGNED BY:	MJI
DRAWN BY:	JEM
CHECKED BY:	MJI
DATE:	FEB 2015

SHEET TITLE
SITE DETAILS

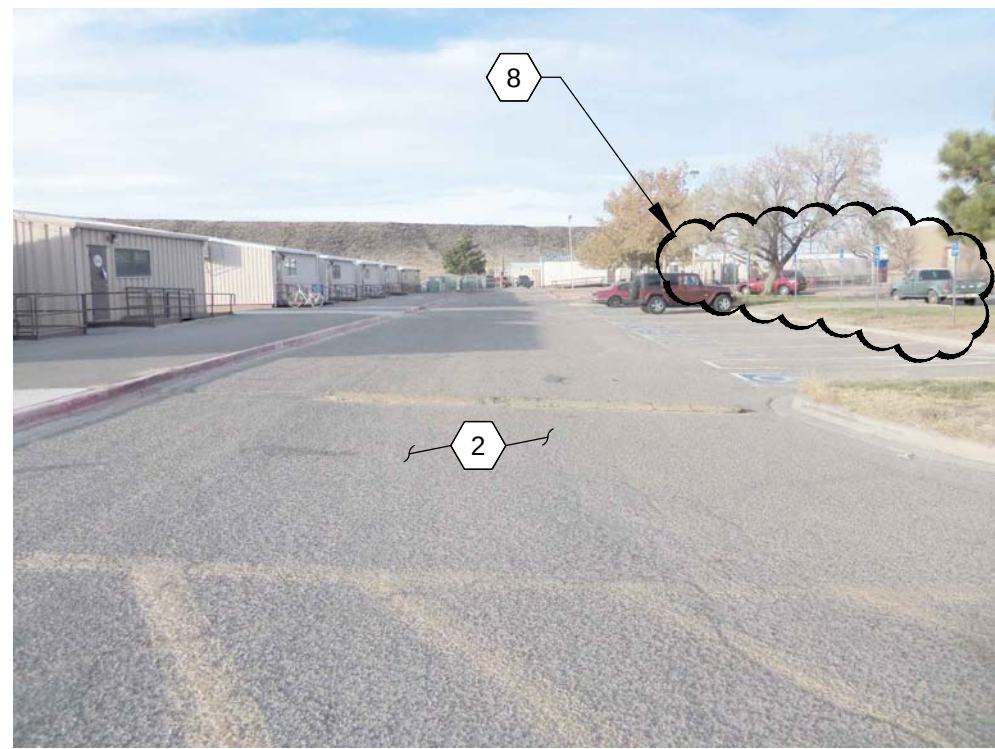
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C-508



A1 LOOKING
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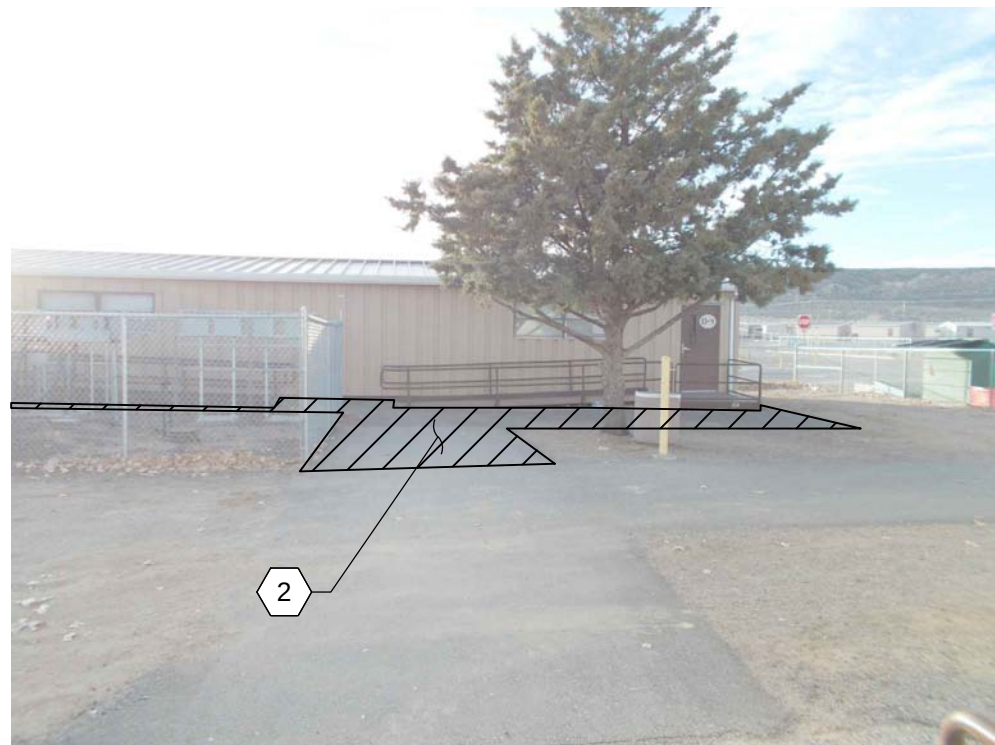
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NTS



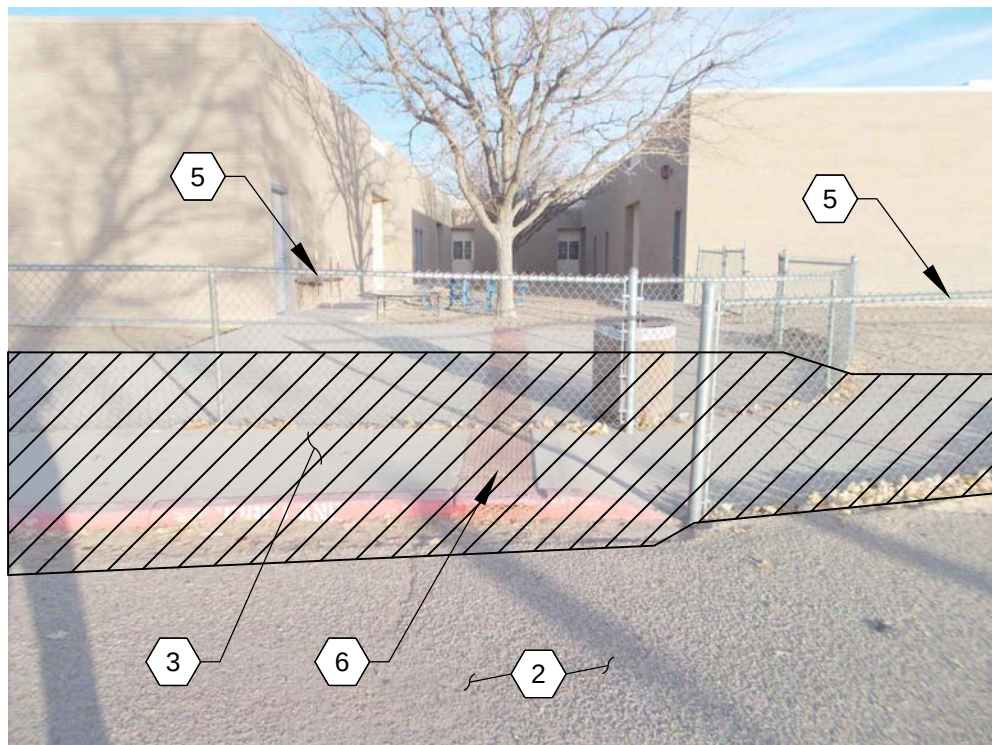
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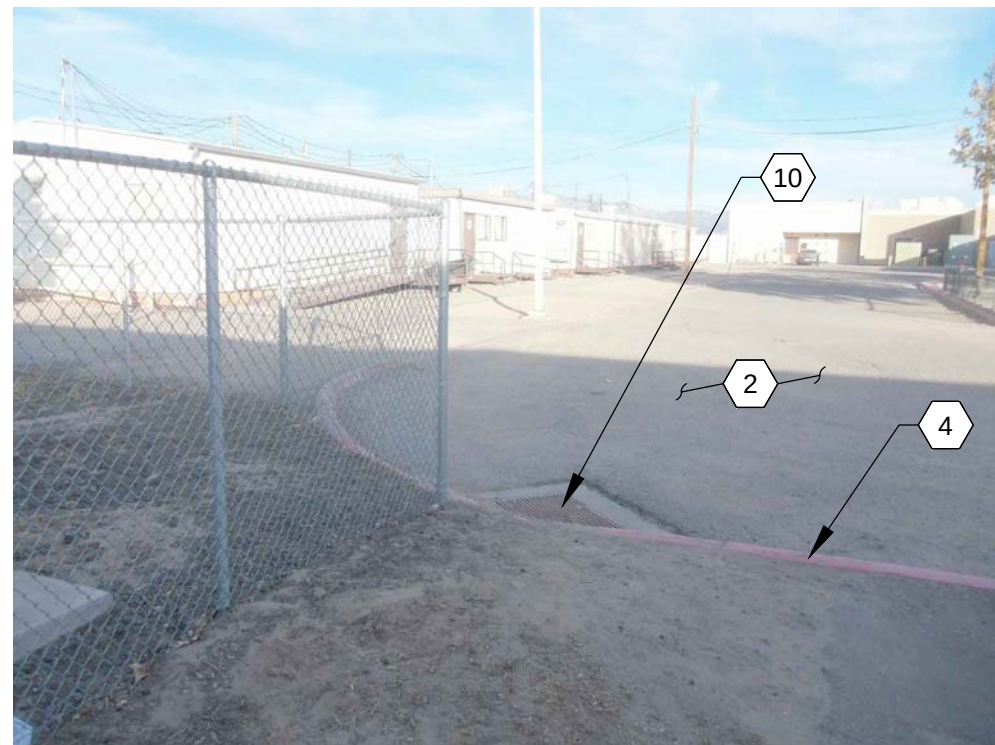
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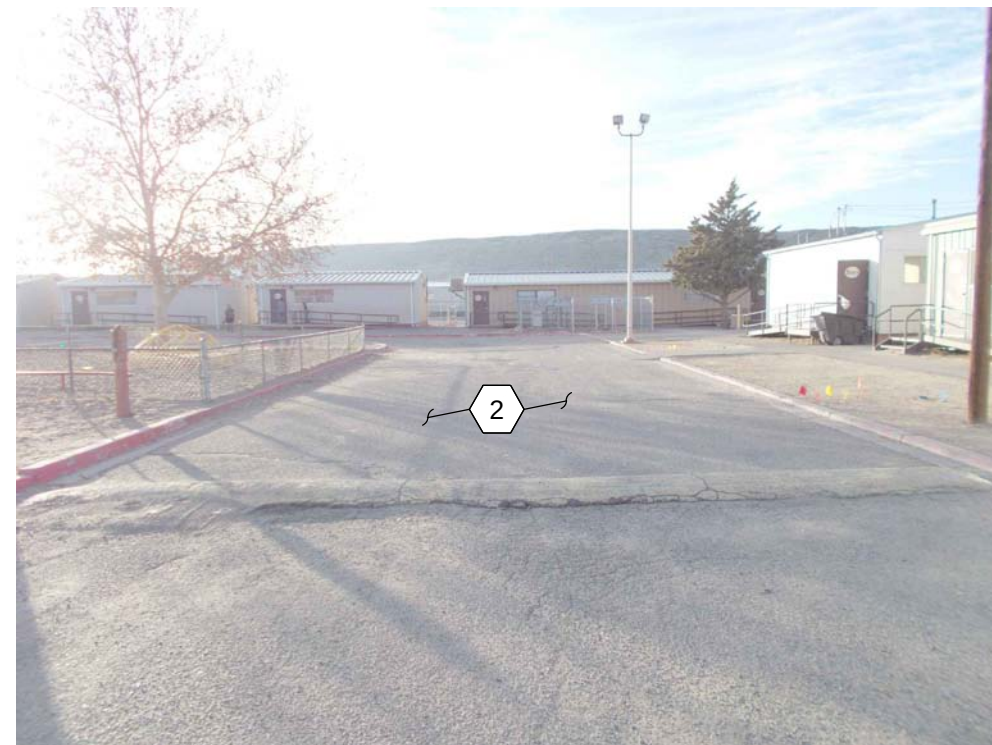
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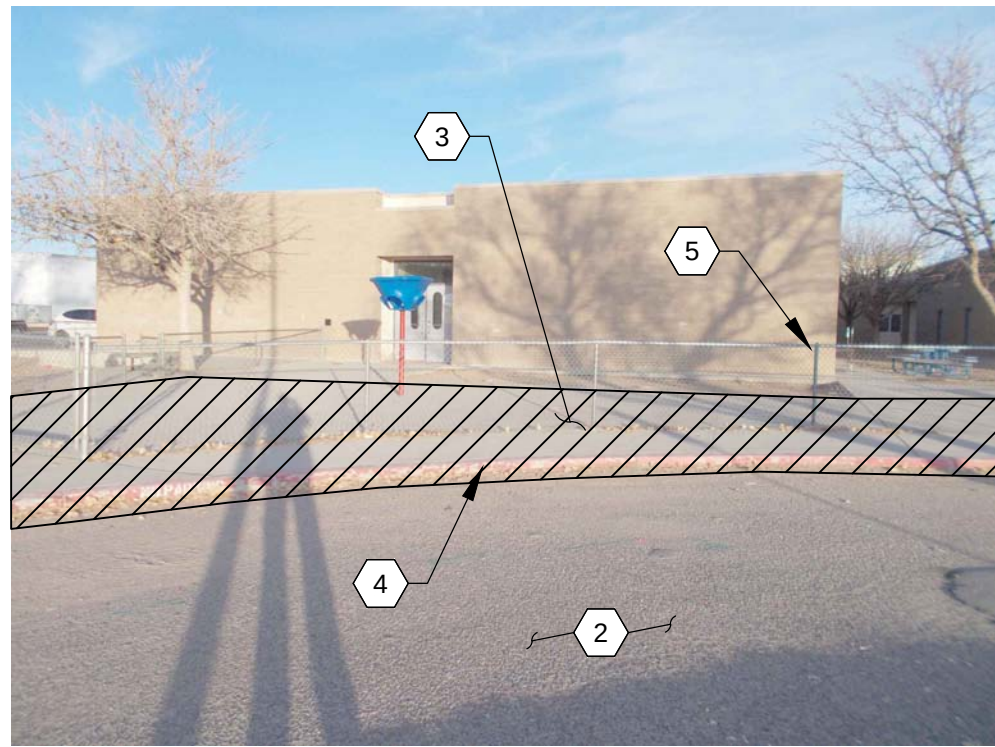
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A5 **LOOKING**
NTS



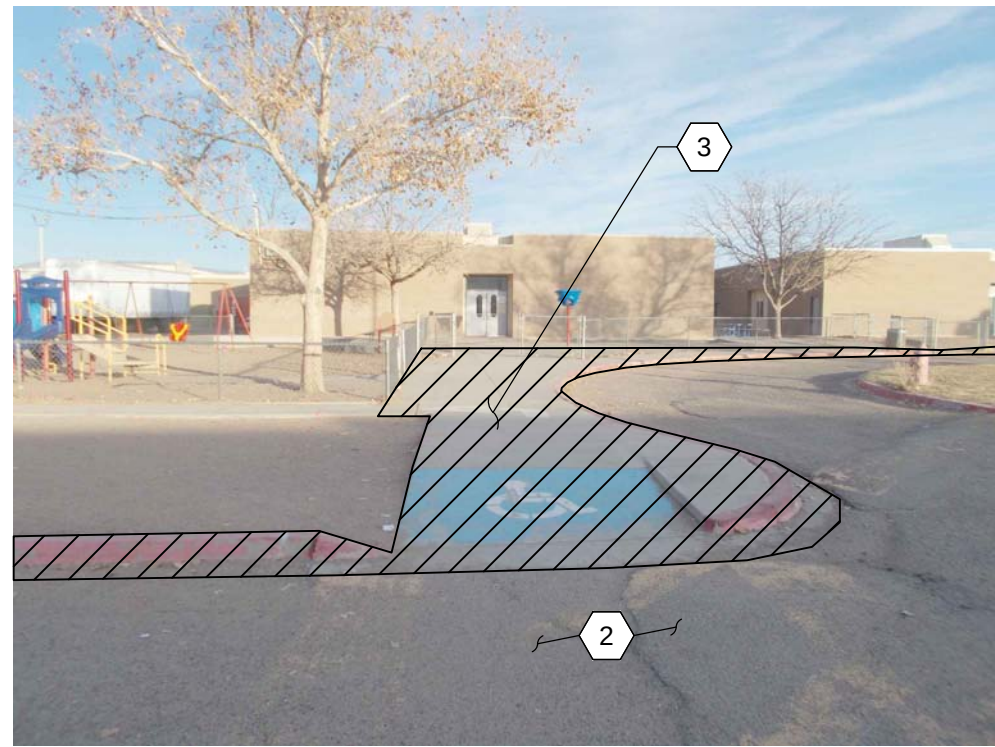
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A1 LOOKING
NTS



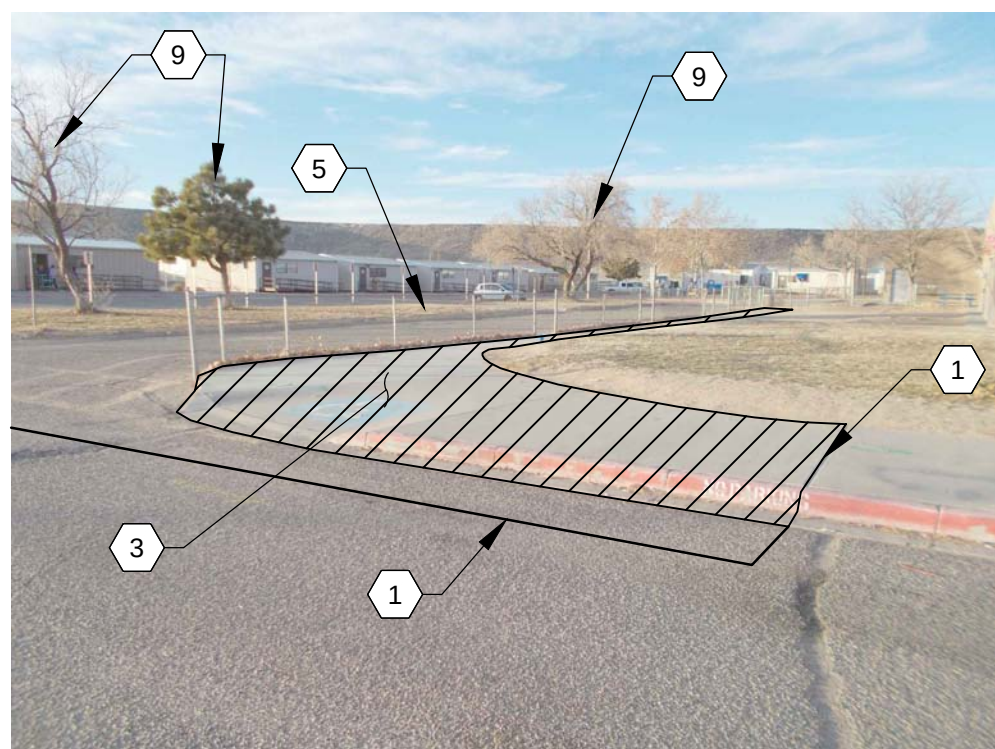
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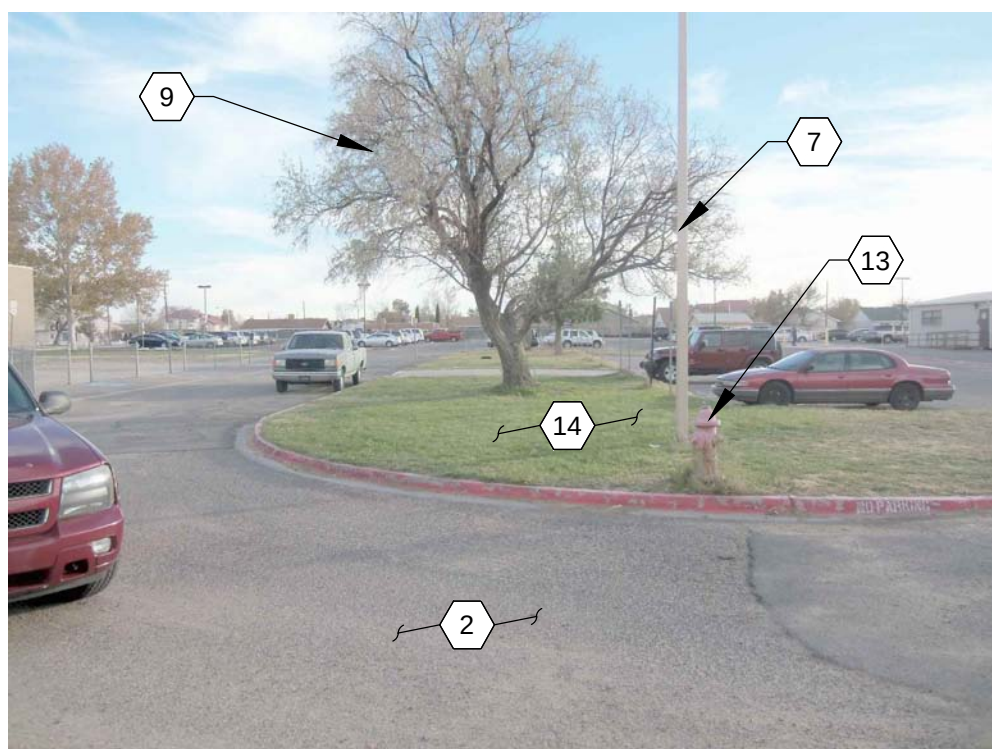
A5 **LOOKING**
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A7 **LOOKING**
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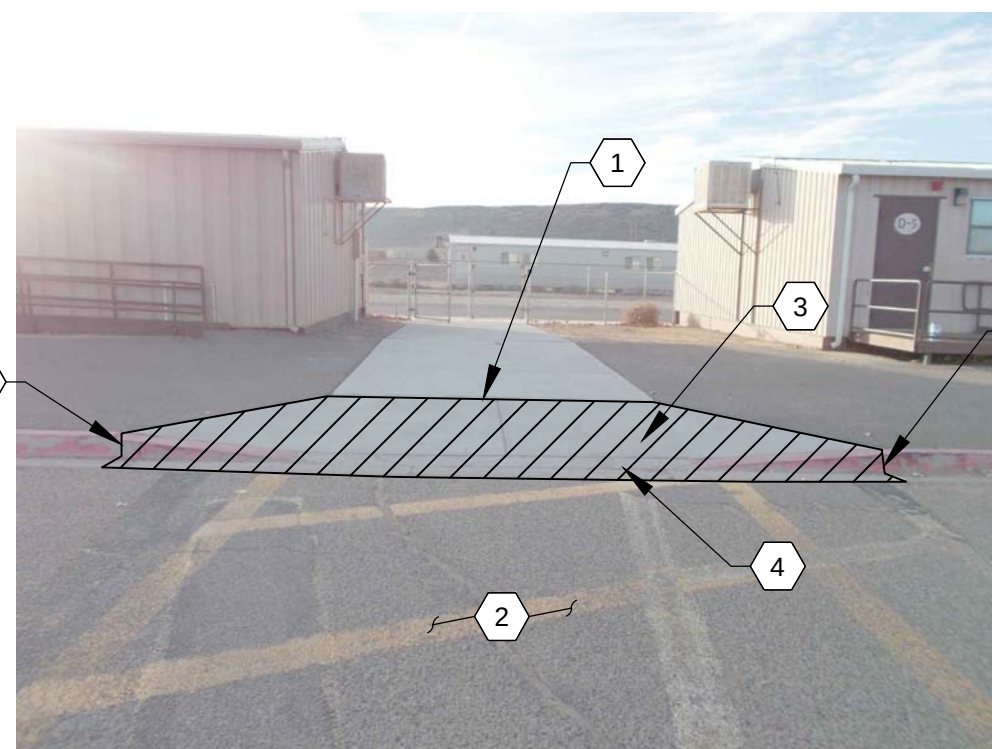
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A3 LOOKING
NTS



A5 LOOKING
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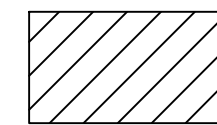


A7 **LOOKING**
NTS

KEYNOTES

1. SAWCUT NEAT LINE.
2. REMOVE AND DISPOSE ASPHALT.
3. REMOVE AND DISPOSE CONCRETE.
4. REMOVE AND DISPOSE CURB AND GUTTER.
5. REMOVE AND DISPOSE CHAIN LINK FENCE.
6. REMOVE AND DISPOSE SIDEWALK CULVERT.
7. REMOVE AND DISPOSE LIGHT, POLE AND BASE.
8. REMOVE AND DISPOSE SIGN AND POST.
9. REMOVE AND DISPOSE TREE INCLUDING ROOTS.
10. REMOVE AND DISPOSE INLET.
11. REMOVE AND DISPOSE 38 LF OF 18" PVC SD.
12. REMOVE AND RELOCATE ELECTRICAL RISERS (BY OTHERS). SEE SHEET C-103 FOR RELOCATION.
13. PROTECT EXISTING FIRE HYDRANT. ANY DAMAGE AS A RESULT OF THIS PROJECT SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR.
14. CLEAR, GRUB AND DISPOSE VEGETATION.
15. REMOVE AND DISPOSE EXCESS DIRT MATERIAL.

LEGEND



APPROXIMATE DEMOLITION LIMITS

[illegible]

PROJECT NO:	1460011400
DESIGNED BY:	MJI
DRAWN BY:	JEM
CHECKED BY:	MJI
DATE:	FEB 2015

SHEET TITLE	
DEMOLITION PHOTOS	

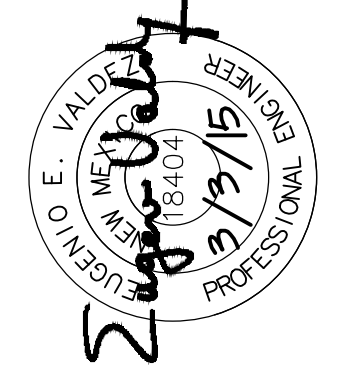
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C-901

PROJECT NAME

CHAPARRAL ELEMENTARY
SCHOOL
PORTABLE RELOCATION

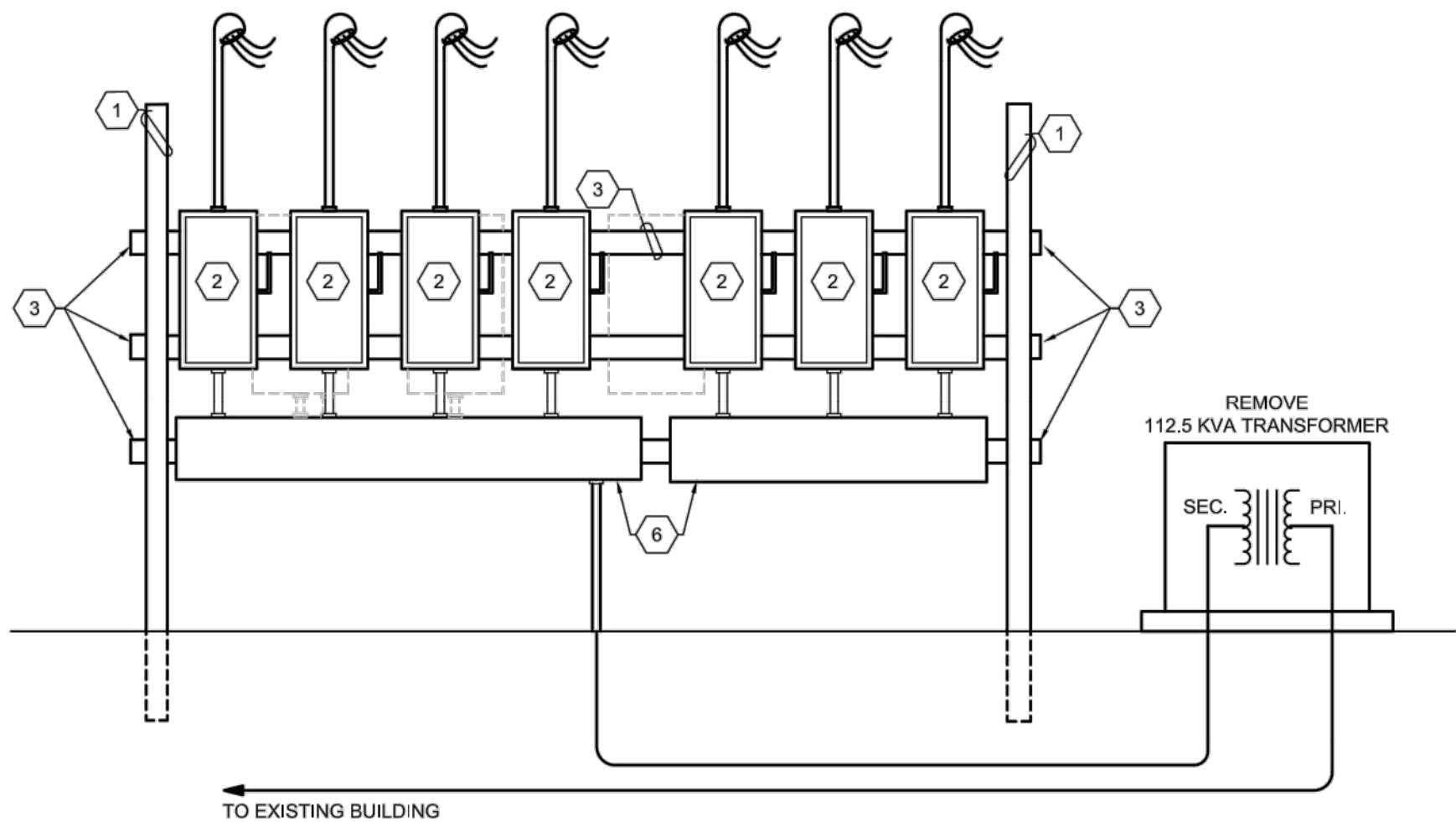
CONSULTANTS

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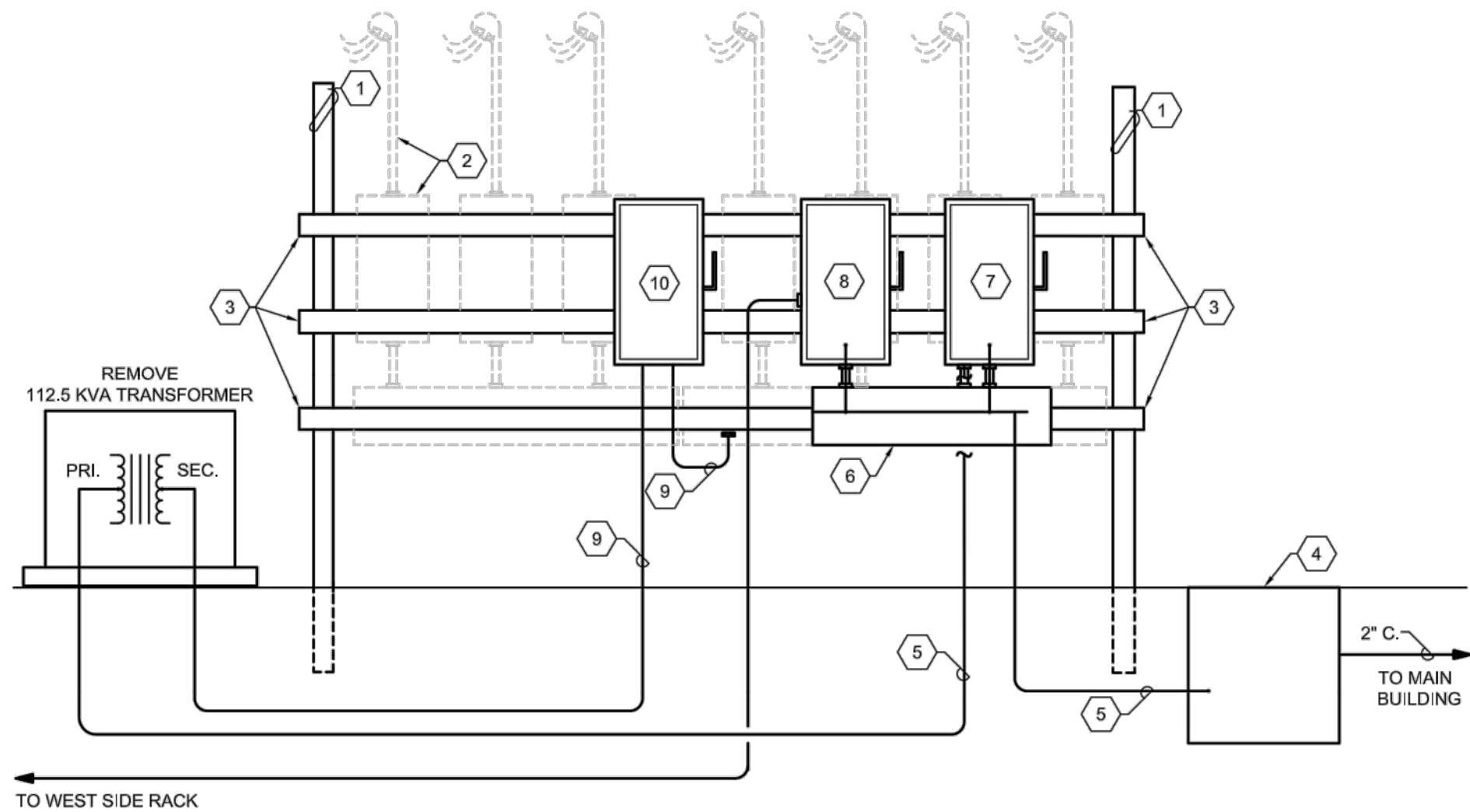


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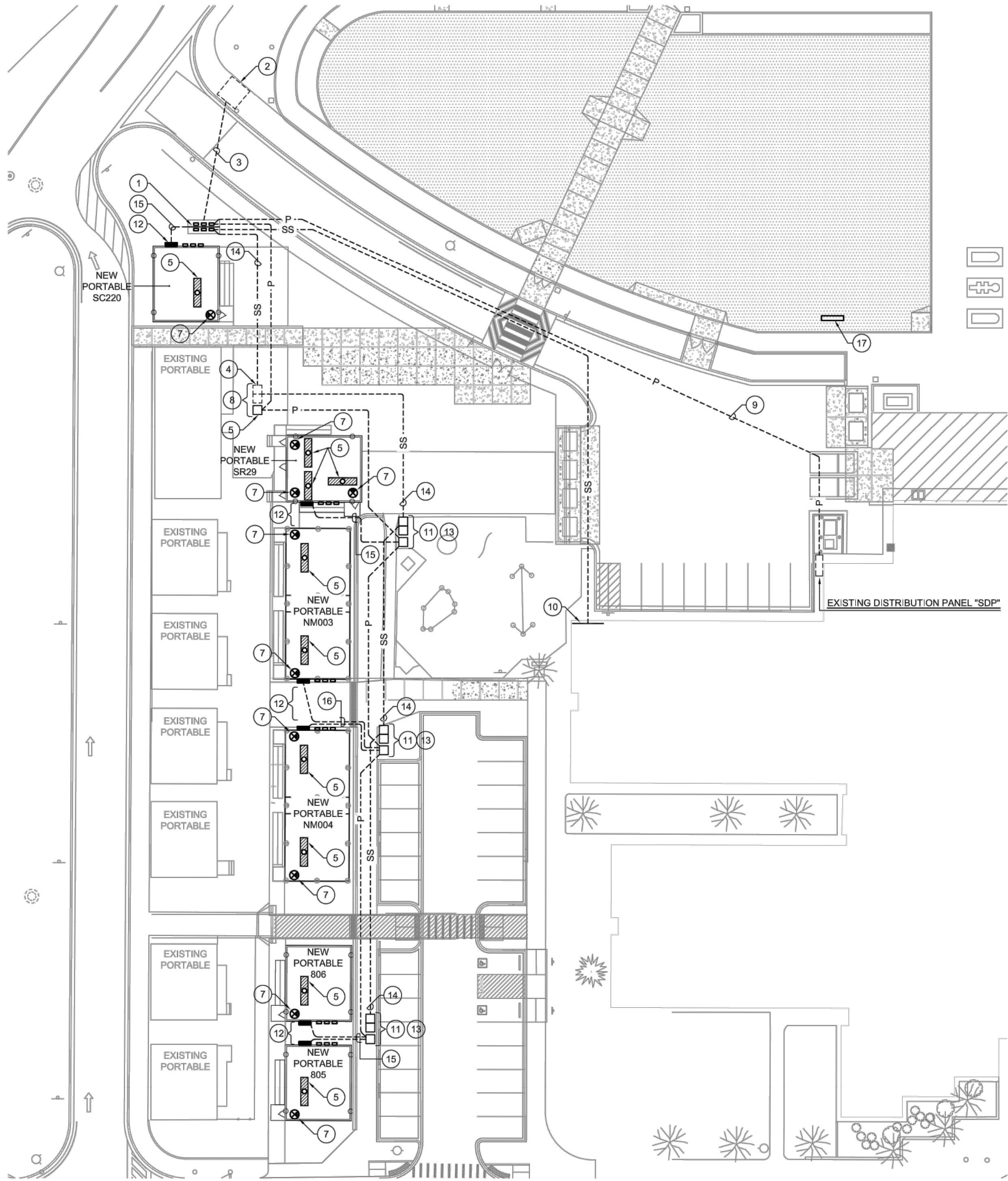


NORTH ELEVATION



SOUTH ELEVATION

NORTH SIDE POWER RISER DIAGRAM - DEMO 11
SCALE NONE



A1 ELECTRICAL SITE PLAN
1" = 30'

KEYED NOTES (ELECTRICAL SITE PLAN)

1. NEW POWER AND SPECIAL SYSTEMS RACK. REFER TO SHEET E102 FOR FURTHER INFORMATION.
2. APPROXIMATE LOCATION OF EXISTING SPECIAL SYSTEMS PULLBOX.
3. (2) 2" CONDUITS WITH PULLCORD FROM EXISTING PULLBOX TO NEW RACK.
4. (2) EXISTING QUAZITE PULLBOXES FOR SPECIAL SYSTEMS TO REMAIN IN PLACE.
5. PROVIDE AND INSTALL A NEW POWER QUAZITE PULLBOX TO INTERCEPT EXISTING POWER CONDUITS FROM EXISTING PORTABLES AND EXTEND NEW CONDUIT / FEEDERS TO NEW PORTABLES. REFER TO POWER RACK RISER DIAGRAM ON SHEET E102.
6. EXISTING FLUORESCENT LIGHT FIXTURE WITH EMERGENCY BALLAST FOR EGRESS OUT OF THE BUILDING DURING POWER OUTAGES (TYPICAL).
7. EXISTING EMERGENCY EXIT LIGHT WITH BATTERY BACKUP (TYPICAL).
8. EXISTING SPECIAL SYSTEMS AND POWER RACK / EQUIPMENT TO REMAIN IN SERVICE UNTIL NEW RACK / EQUIPMENT IS INSTALLED AND ENERGIZED.
9. (3) #250 KCMIL AND (1) #2 GROUND IN 3" CONDUIT TO A NEW 250A CIRCUIT BREAKER IN EXISTING PANEL "SDP."
10. INTERCEPT (3) 2" AND (2) 1" SPECIAL SYSTEMS CONDUIT AND EXTEND TO NEW SPECIAL SYSTEMS RACK.
11. (3) NEW QUAZITE PULLBOXES, (2) FOR SPECIAL SYSTEMS AND (1) FOR POWER. THE 1ST PULLBOX WILL BE FOR FIRE ALARM AND SECURITY SYSTEM CONDUITS, THE 2ND PULLBOX FOR DATA AND INTERCOM CONDUITS, THE 3RD PULLBOX FOR POWER CONDUITS.
12. VERIFY LOCATION OF EXISTING SERVICE DISCONNECTS AND SPECIAL SYSTEMS TERMINAL BOXES IN THE FIELD.
13. FROM EACH SPECIAL SYSTEMS PULLBOX EXTEND (2) 2" CONDUITS TO EACH PORTABLE UNIT AND TERMINATE AT TERMINAL BOXES (FA, IC, ETC...).
14. (4) 2" SPECIAL SYSTEMS CONDUITS TO RESPECTIVE PULLBOXES.
15. SERVICE SIZE CONDUIT AND CONDUCTORS FOR PORTABLES SC220, SR29, 805 AND 806 SHALL BE (3) #6 AND (1) #8 GROUND IN 1" CONDUIT.
16. SERVICE SIZE CONDUIT AND CONDUCTORS FOR PORTABLES NM003 AND NM004 SHALL BE (3) #2 AND (1) #8 GROUND IN 1 1/4" CONDUIT.
17. APPROXIMATE LOCATION OF NORTH SIDE RACK TO BE REMOVED. REFER TO RISER DIAGRAMS, ON THIS SHEET, FOR DEMOLITION.

KEYED NOTES (DEMOLITION RISER DIAGRAMS)

1. REMOVE EXISTING POLES.
2. REMOVE (7) EXISTING DISCONNECT SWITCHES AND CONDUIT RISERS LOCATED IN BACK OF UNISTRUT FRAME.
3. REMOVE UNISTRUT FRAME.
4. REMOVE QUAZITE PULLBOX.
5. REMOVE 2" CONDUIT WITH (3) #3/0 AND (1) #3 GROUND.
6. REMOVE 6"D x 8"H x 24"L, NEMA 3R WIREWAY.
7. REMOVE 600V-400A-3P-4W DISCONNECT SWITCH.
8. REMOVE 600V-200 AMP DISCONNECT SWITCH.
9. REMOVE (4) #500 KCMIL AND (1) #3 GROUND IN A 4" CONDUIT.
10. REMOVE 240V-400A-3P-4W DISCONNECT SWITCH.
11. ALL EQUIPMENT REMOVED SHALL BE SALVAGED BACK TO THE OWNER. STORE IN A PLACE AS DESIGNATED BY THE OWNER.

WARNING

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND 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 UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO 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 OF ANY AND ALL DAMAGE CAUSED BY IT'S FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. 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 IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NM ONE CALL" PROCEDURES, OR OTHERWISE.



ELECTRICAL SITE PLAN

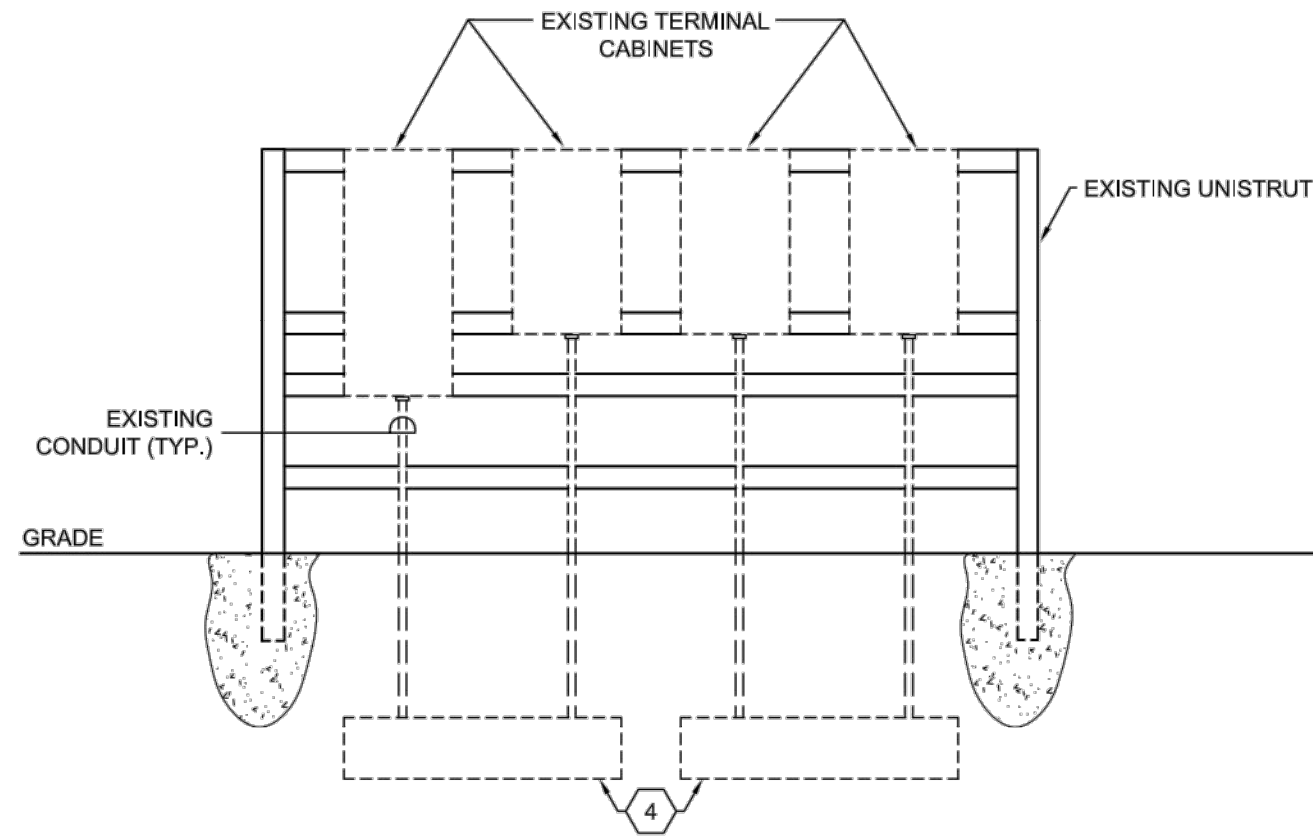
Chaparral E.S. Portable Relocation
6325 Milne Rd NW
Albuquerque, NM 87120



REVISION #	REVISION DATE:	PROJECT NUMBER:	14149AS
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		CHECK BY:	RP / DDR
		SCALE:	1" = 30'
		DATE:	2/18/15

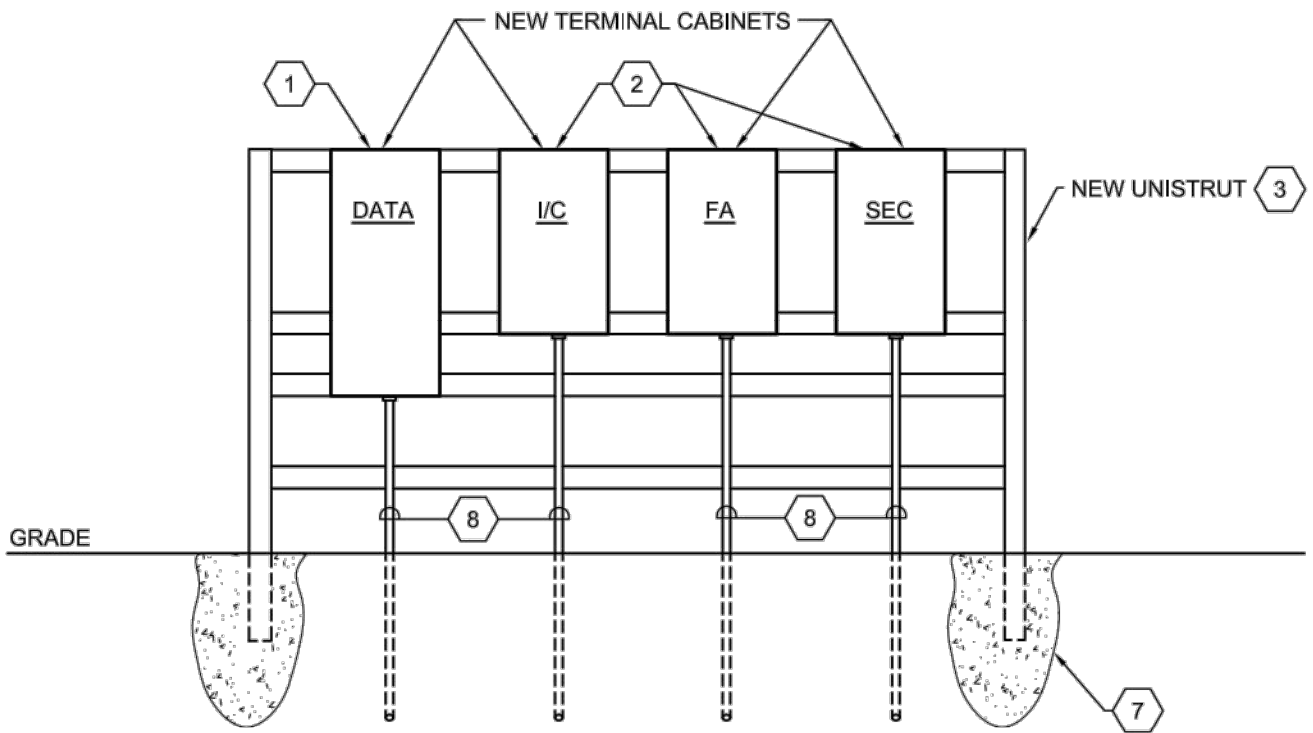
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14149AS



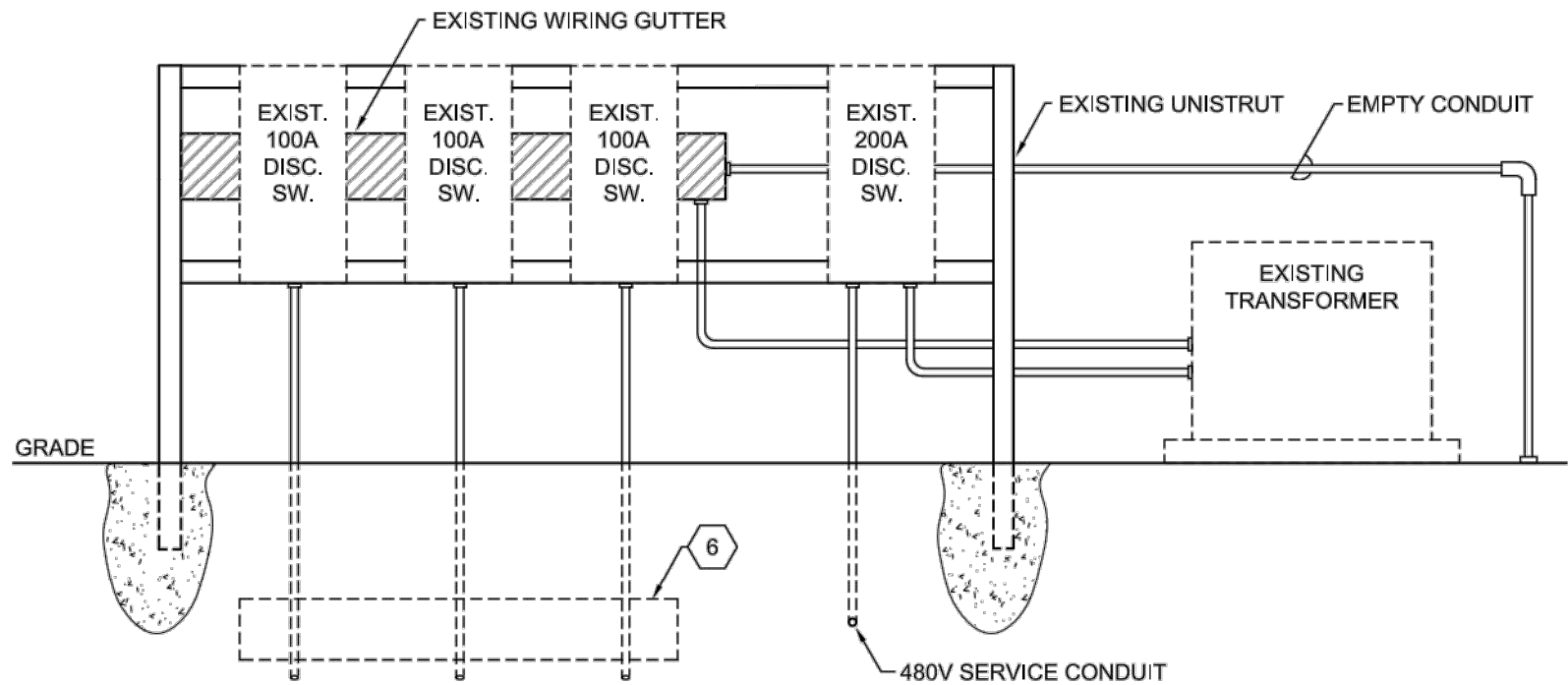
EXISTING SPECIAL SYSTEMS RACK - DEMO

SCALE: NONE



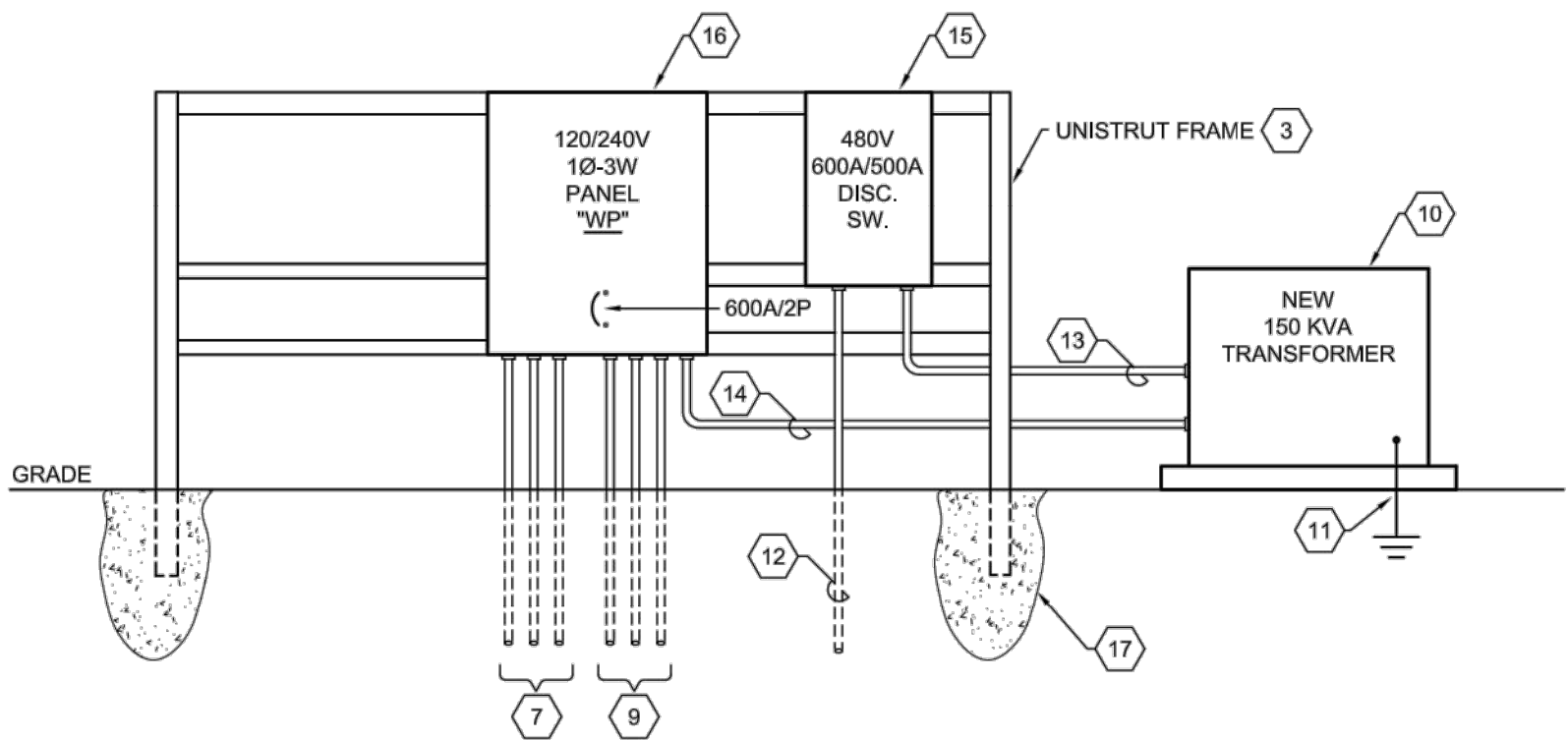
SPECIAL SYSTEMS RACK - NEW

SCALE: NONE



EXISTING POWER RACK - DEMO

SCALE: NONE

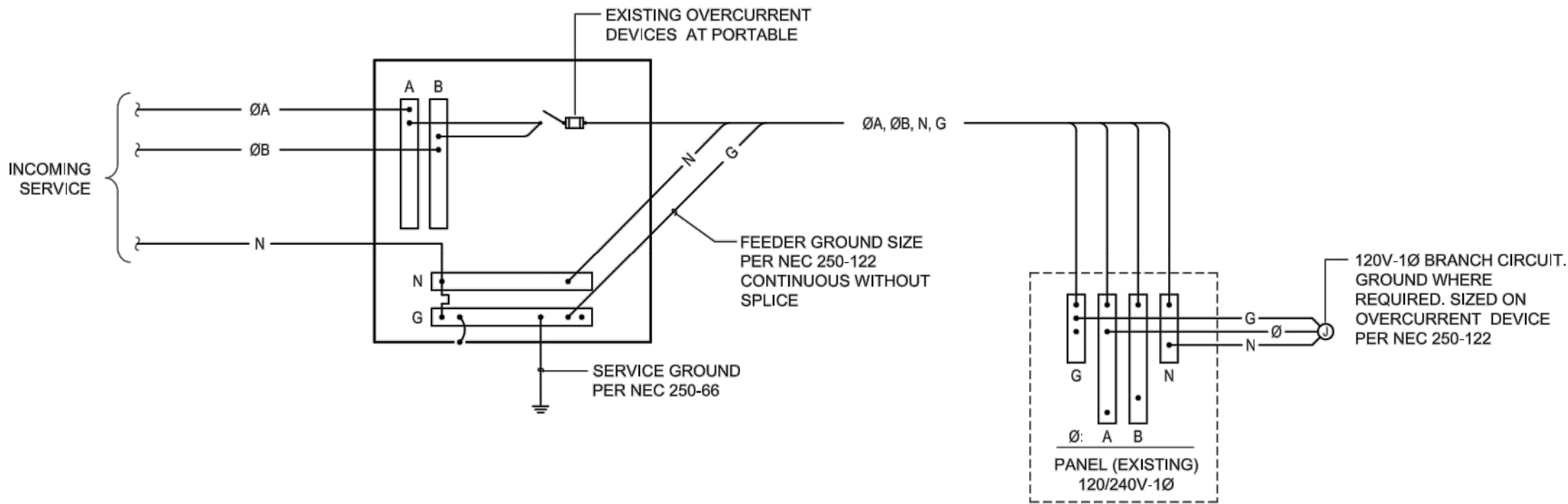


POWER RACK - NEW

SCALE: NONE

KEYED NOTES

- 24" x 24" x 6" NEMA 3R TERMINAL ENCLOSURE MOUNTED ON NEW UNISTRUT FRAME.
- 18" x 18" x 6" NEMA 3R TERMINAL ENCLOSURE MOUNTED ON NEW UNISTRUT FRAME.
- GALVANIZED UNISTRUT RACK 1 5/8" (DOUBLE).
- EXISTING QUAZITE PULLBOX FOR SPECIAL SYSTEM INTERCEPTIONS TO REMAIN IN PLACE.
- EXISTING SPECIAL SYSTEMS AND POWER RACK ALONG WITH EQUIPMENT TO REMAIN IN SERVICE UNTIL NEW RACK / EQUIPMENT IS INSTALLED AND ENERGIZED.
- PROVIDE AND INSTALL A NEW QUAZITE PULLBOX FOR INTERCEPTION OF EXISTING CONDUITS AND SPLICING OF CONDUCTORS FOR EXISTING PORTABLE SERVICE.
- (3) 1 1/4" CONDUITS EACH WITH (3) #2 AND (1) #8 GROUND TO PULLBOX PER NOTE 6 ABOVE FOR SERVICE TO EXISTING PORTABLES. PULLBOX LOCATED AT EXISTING POWER RACK LOCATION.
- 2" PVC CONDUITS WITH RIGID RISERS AND ELBOWS TO EXISTING QUAZITE PULLBOXES PER NOTE 4 AT EXISTING SPECIAL SYSTEMS RACK LOCATION.
- (3) 1 1/4" CONDUITS WITH (3) #2 AND (1) #8 GROUND, AND (2) 1" CONDUITS WITH (3) #6 AND (1) #8 GROUND TO NEW PORTABLES EXTENDED THROUGH PULLBOXES AS SHOWN ON SITE PLAN (SHEET E101).
- NEW 150 KVA DRY-TYPE TRANSFORMER, 480V PRIMARY, 120/240V-1Ø SECONDARY NEMA 3R ENCLOSURE. PROVIDE CONCRETE PAD.
- GROUND PER NEC ARTICLE 250.
- EXTEND (3) #250 KCMIL AND (1) #2 GROUND IN A 3" CONDUIT TO EXISTING DISTRIBUTION PANEL "SDP" AND CONNECT TO A NEW 250 AMP CIRCUIT BREAKER FOR NEW SERVICE TO POWER RACK. CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER AND AIC RATING.
- (3) #250 KCMIL AND (1) #2 GROUND IN 3" CONDUIT.
- (2) 3" CONDUITS EACH WITH (3) #350 KCMIL AND (1) #2/Ø GROUND.
- 600V-600A-3P-4W FUSIBLE RAINTIGHT DISCONNECT SWITCH, FUSE AT 500 AMPS.
- 120/240V-600A-1Ø-3W NEMA 3R PANEL. REFER TO PANEL SCHEDULE.
- 3" MINIMUM CONCRETE BASE (TYPICAL).



TYPICAL GROUNDING SYSTEM DIAGRAM

SCALE: NONE

PANEL: "WP" (NEMA 3R)		VOLTAGE: 120/240V-1Ø-3W		MAINS: 600A		A/C: 10,000	
SOURCE: .		SKIRTS: N/A		FEED: BOTTOM		MAIN BREAKER: 600A/2P	
						MOUNTING: SURFACE/RACK	
DESCRIPTION	BRKR	LOAD (VA)	CCT NO.	LOAD (VA)	CCT NO.	LOAD (VA)	BRKR
EXISTING PORTABLES	100A 2P	4848	1	11148	2	6300	100A 2P
	4848 3			11148	4	6300	
EXISTING PORTABLES	100A 2P	6300	5	8400	6	2100	60A 2P
	6300 7			8400	8	2100	
NEW PORTABLE NM003	100 2P	4848	9	6948	10	2100	60A 2P
	4848 11			6948	12	2100	
NEW PORTABLES 805 & 806	100 2P	4848	13	4848	14		20A/1P
	4848 15			4848	16		
SPACE ONLY	1P	-	17		18	-	20A/1P
SPACE ONLY	1P	-	19		20	-	20A/1P
SPACE ONLY	1P	-	21		22	-	20A/1P
SPACE ONLY	1P	-	23		24	-	20A/1P
SPACE ONLY	1P	-	25		26	-	20A/1P
SPACE ONLY	1P	-	27		28	-	20A/1P
SPACE ONLY	1P	-	29		30	-	20A/1P
TOTAL LOAD (VA)		31,344	31,344				
TOTAL CONNECTED (KVA): 62.6		ESTIMATED DEMAND (KVA): .		DOOR-IN-DOOR GROUND BUS			



ELECTRICAL SITE PLAN

Chaparral E.S. Portable Relocation
6325 Milne Rd MW
Albuquerque, NM 87120



REVISION #	REVISION DATE:	PROJECT NUMBER:	14149AS
		DRAWN BY:	JKD
		CHECK BY:	RP
		SCALE:	1" = 30'
		DATE:	2/18/15
		E102	