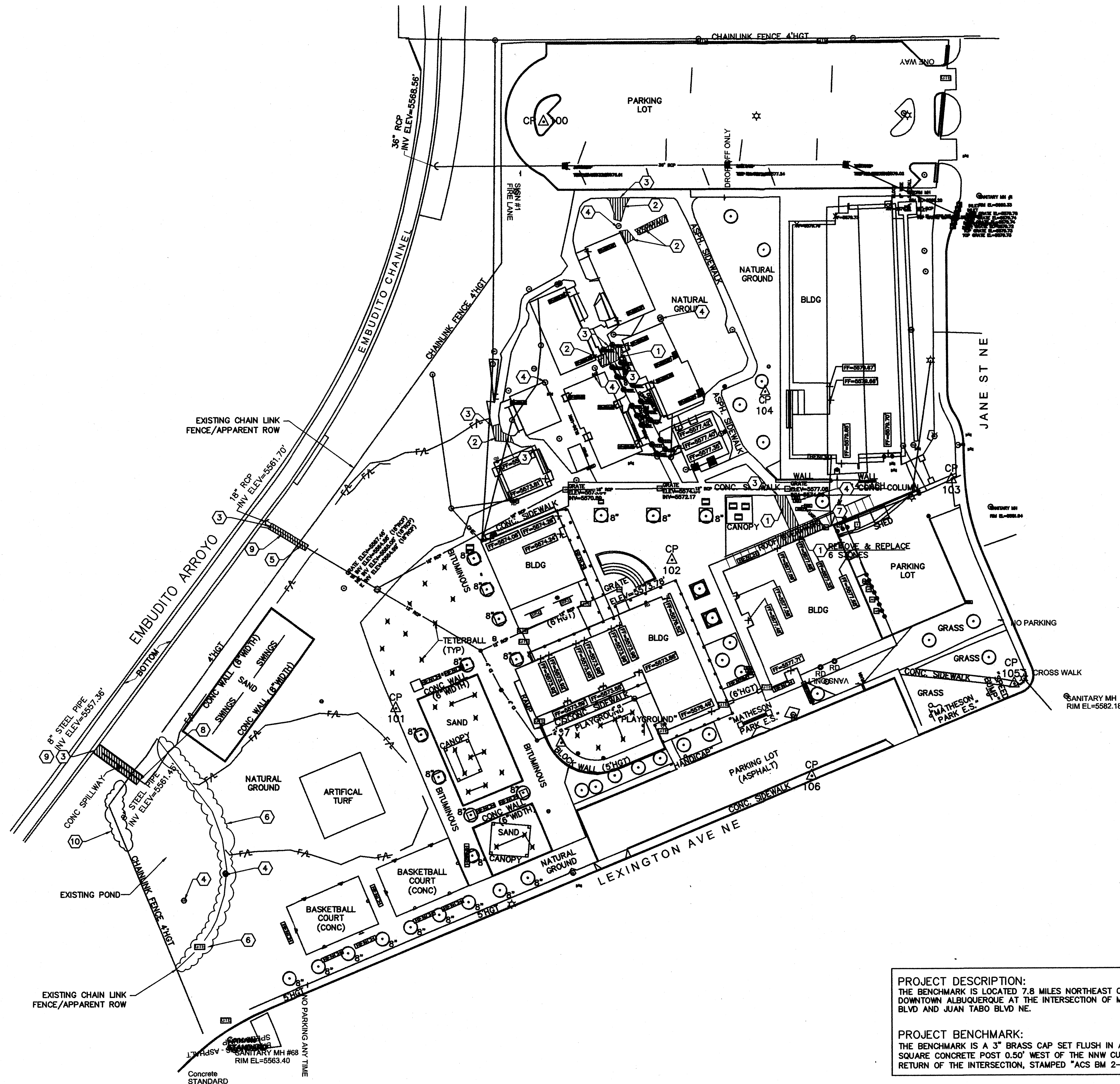


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A1 DEMOLITION PLAN
SCALE: 1" = 40'



PROJECT DESCRIPTION:
THE BENCHMARK IS LOCATED 7.8 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF MENAUL BLVD AND JUAN TABO BLVD NE.

PROJECT BENCHMARK:
THE BENCHMARK IS A 3" BRASS CAP SET FLUSH IN A 1.0' SQUARE CONCRETE POST 0.50' WEST OF THE NNW CURB RETURN OF THE INTERSECTION, STAMPED "ACS BM 2-H21".

GENERAL NOTES

1. WORK ON EMBUDO CHANNEL, CITY ROW TO BE COMPLETED UNDER SPECIAL ORDER 19 -S019 PERMITS. SEE SHEET C-403. CONTRACTOR TO CONTACT JASON RODRIGUEZ AT 505-235-8016 PRIOR TO COMMENCING WORK ON CHANNEL TO COORDINATE INSPECTIONS.

SHEET KEY NOTES

1. REMOVE AND DISPOSE OF 4" PCC SIDEWALK
2. REMOVE AND DISPOSE OF EXISTING ASPHALT
3. SAWCUT NEAT LINE, REMOVE AND DISPOSE
4. ADJUST EXISTING UTILITY TO PROPOSED FINISHED GRADE. SEE SHEET C-102 FOR PROPOSED ELEVATIONS.
5. REMOVE SECTION OF 18" RCP TO ALLOW FOR INSTALLATION OF MANHOLE. SEE SHEET C-102
6. REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE
7. EXISTING HOT BOX TO REMAIN UNDISTURBED.
8. REMOVE AND DISPOSE OF EXISTING CONCRETE RUNDOWN, INCLUDING 4" PIPE.
9. CONTRACTOR TO GRADE AREA TO MATCH ADJACENT SLOPE. CONTACT AND COORDINATE WITH APS ON-CALL LANDSCAPE CONTRACTOR FOR SOIL AMENDMENT, SODDING AND IRRIGATION ADJUSTMENTS.
10. REMOVE, SALVAGE AND RESET FENCE AS REQUIRED TO CONSTRUCT NEW REINFORCED CONCRETE RETAINING WALL ON SHEET C-402.

LEGEND

○ PP	POWER POLE
⊙	SANITARY MANHOLE
⊕	WATER VALVE
⊙	FIRE HYDRANT
⊙	LIGHTPOLE
⊙	TELEPHONE MANHOLE
⊙	TRAFFIC SIGN
⊙	VAULT
⊙	ROOF DRAIN
⊙	TV PEDESTAL
⊙	SPRINKLER CONTROL BOX
⊙	DECIDUOUS TREE
⊙	SANITARY CLEANOUT
+ 5348.67	FINISH FLOOR ELEVATION
— GAS —	UNDERGROUND GASLINE
— UGE —	UNDERGROUND ELECTRIC
— OHE —	OVERHEAD ELECTRIC
— FO —	FIBER OPTIC LINE
— UGTV —	UNDERGROUND TV LINE
— SS —	SANITARY SEWER LINE
—	CURB AND GUTTER
— 5530 —	INDEX CONTOUR
—	INTERMEDIATE CONTOUR
▨	DEMOLITION LIMITS

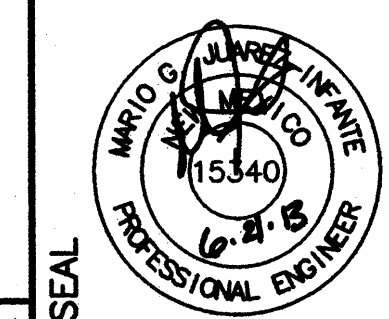


H21-D036

1/13

WILSON & COMPANY
4900 Long Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

CONSULTANTS



PROJECT NAME
**MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM**

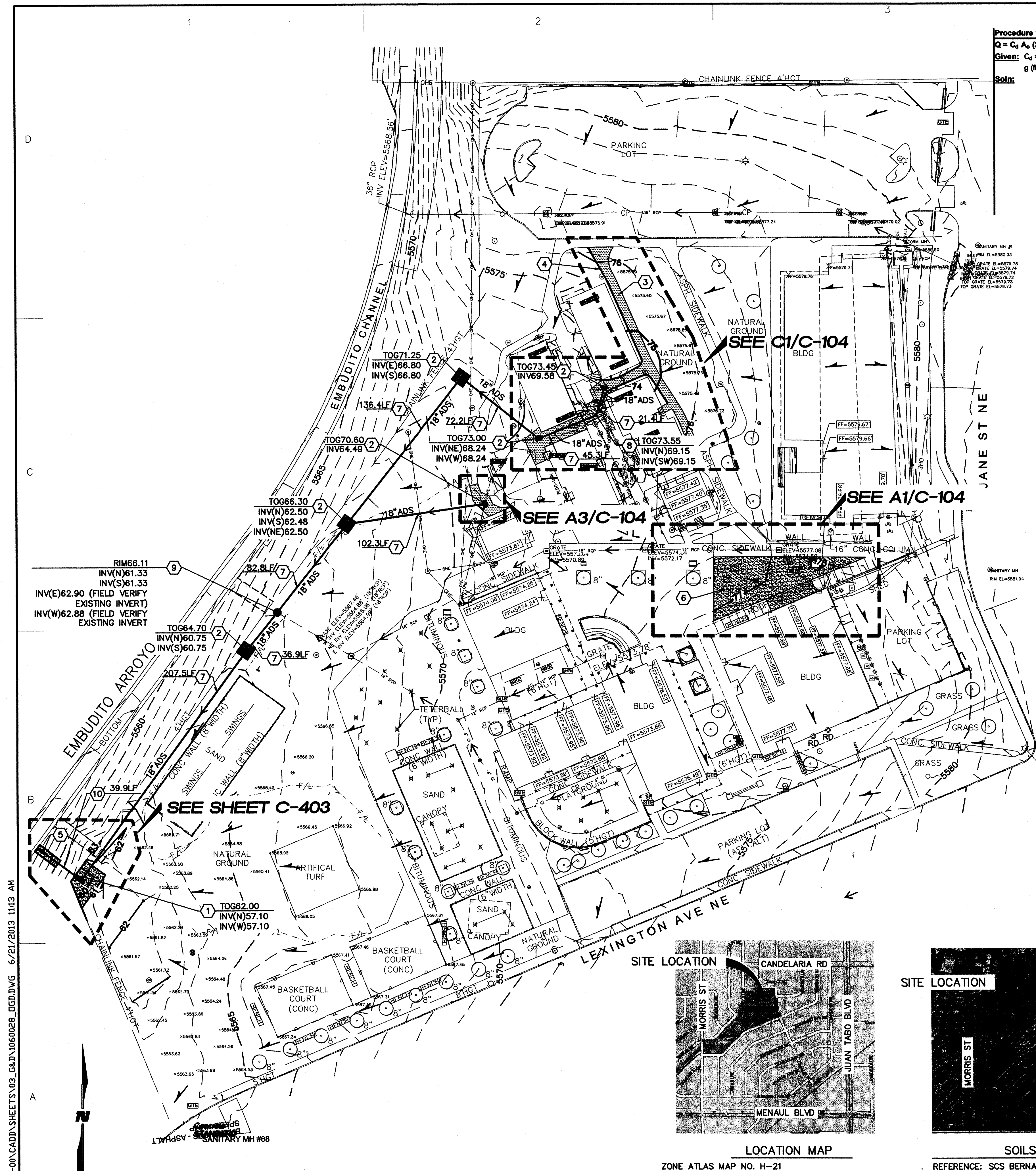
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PROJECT NO:
10-600-028-00
DRAWN BY: JLL
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SHEET TITLE

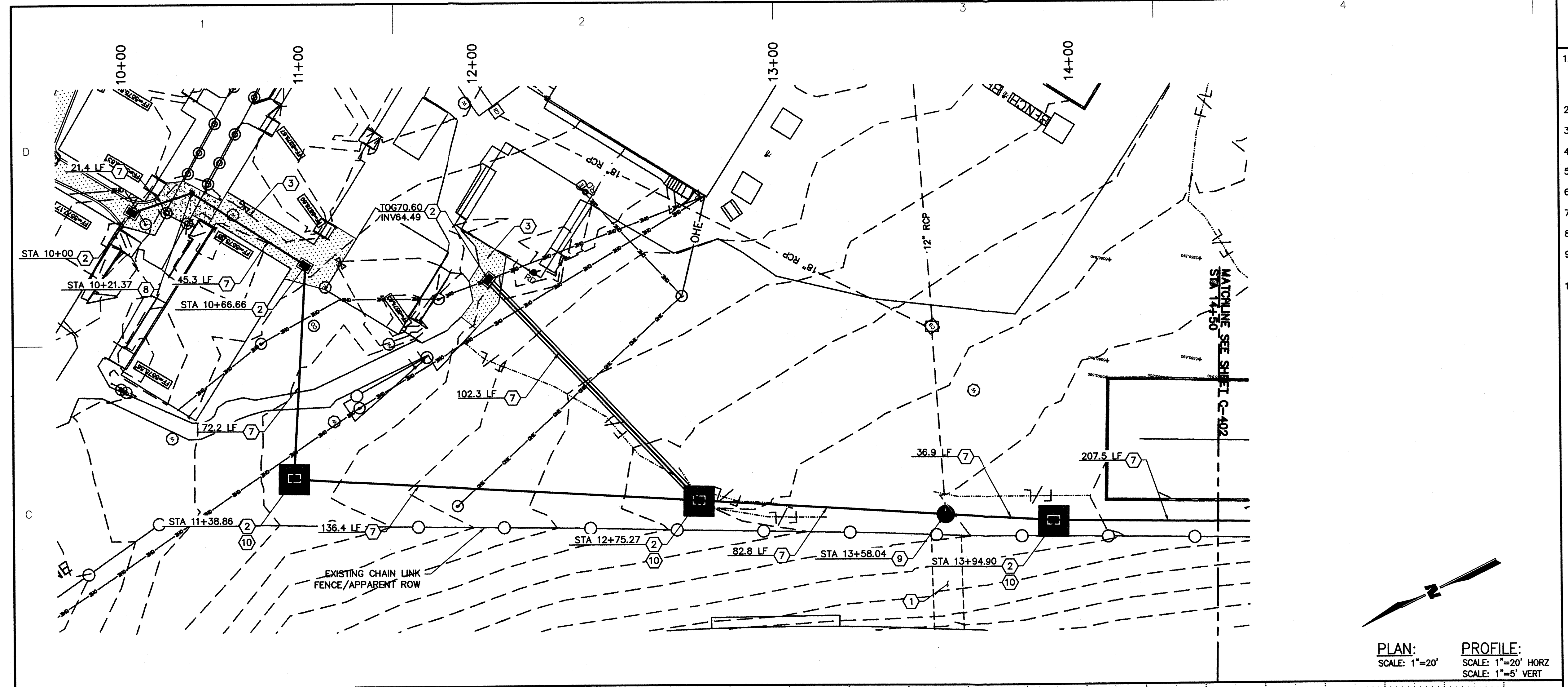
**DEMOLITION
PLAN**

SHEET
C-101

50-19

[illegible]

509



PLAN:
SCALE: 1"=20'

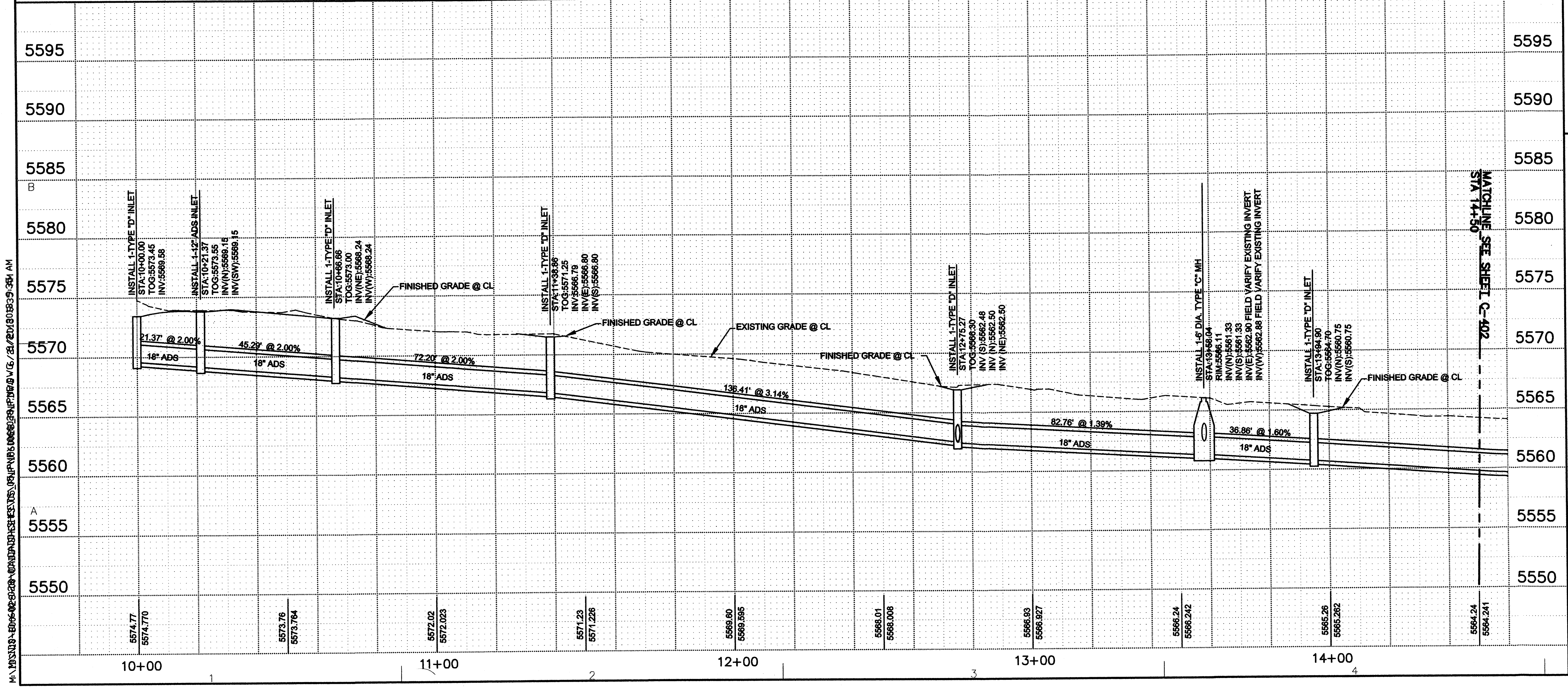
PROFILE:
SCALE: 1"=20' HORIZ
SCALE: 1"=5' VERT

SHEET KEY NOTES

1. CONTRACTOR TO GRADE AREA TO MATCH ADJACENT SLOPE. CONTACT AND COORDINATE WITH APS ON-CALL LANDSCAPE CONTRACTOR FOR SOIL AMENDMENT, SODDING AND IRRIGATION ADJUSTMENTS.
2. INSTALL 1-SGL TYPE "D" INLET. SEE DETAIL C1/C-504.
3. INSTALL 2" ASPHALT. SEE DETAIL B5/C-501.
4. INSTALL 8" TEMPORARY ASPHALT CURB. SEE DETAIL C1/C-505.
5. INSTALL CHANNEL PENETRATION. SEE SHEET C-503.
6. INSTALL 4" PCC SIDEWALK. SEE DETAIL A5/C-501.
7. INSTALL 18" DIA N-12 WT ADS STORM DRAIN PIPE.
8. INSTALL 12" DIA ADS INLET. SEE DETAIL A4/C-501
9. INSTALL 1-6" DIA TYPE "C" MANHOLE. SEE DETAIL C3/C-502. FIELD VERIFY EXISTING 12" RCP INVERTS
10. INSTALL 10'x10' ASPHALT PAD 3" THICK AROUND NEW INLET. SEE DETAIL C2/C-501.

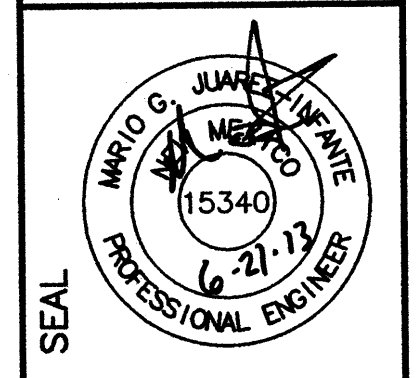
LEGEND

- PP POWER POLE
- ⊙ SANITARY MANHOLE
- ⊗ WATER VALVE
- ⊙ FIRE HYDRANT
- ⊙ LIGHTPOLE
- ⊙ TELEPHONE MANHOLE
- ⊙ TRAFFIC SIGN
- ⊙ VAULT
- ⊙ ROOF DRAIN
- ⊙ TV PEDESTAL
- ⊙ SPRINKLER CONTROL BOX
- ⊙ DECIDUOUS TREE
- ⊙ SANITARY CLEANOUT
- FINISH FLOOR ELEVATION
- GAS UNDERGROUND GASLINE
- UGE UNDERGROUND ELECTRIC
- OHE OVERHEAD ELECTRIC
- FO FIBER OPTIC LINE
- UGTV UNDERGROUND TV LINE
- SS SANITARY SEWER LINE
- CURB AND GUTTER
- 5530 INDEX CONTOUR
- INTERMEDIATE CONTOUR



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CONSULTANTS



PROJECT NAME
**MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM**

MARK	DATE	DESCRIPTION

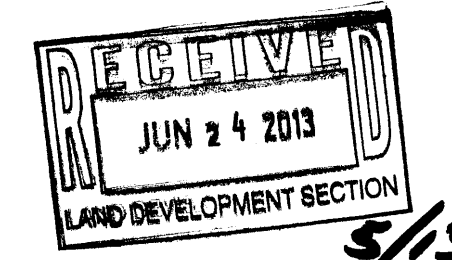
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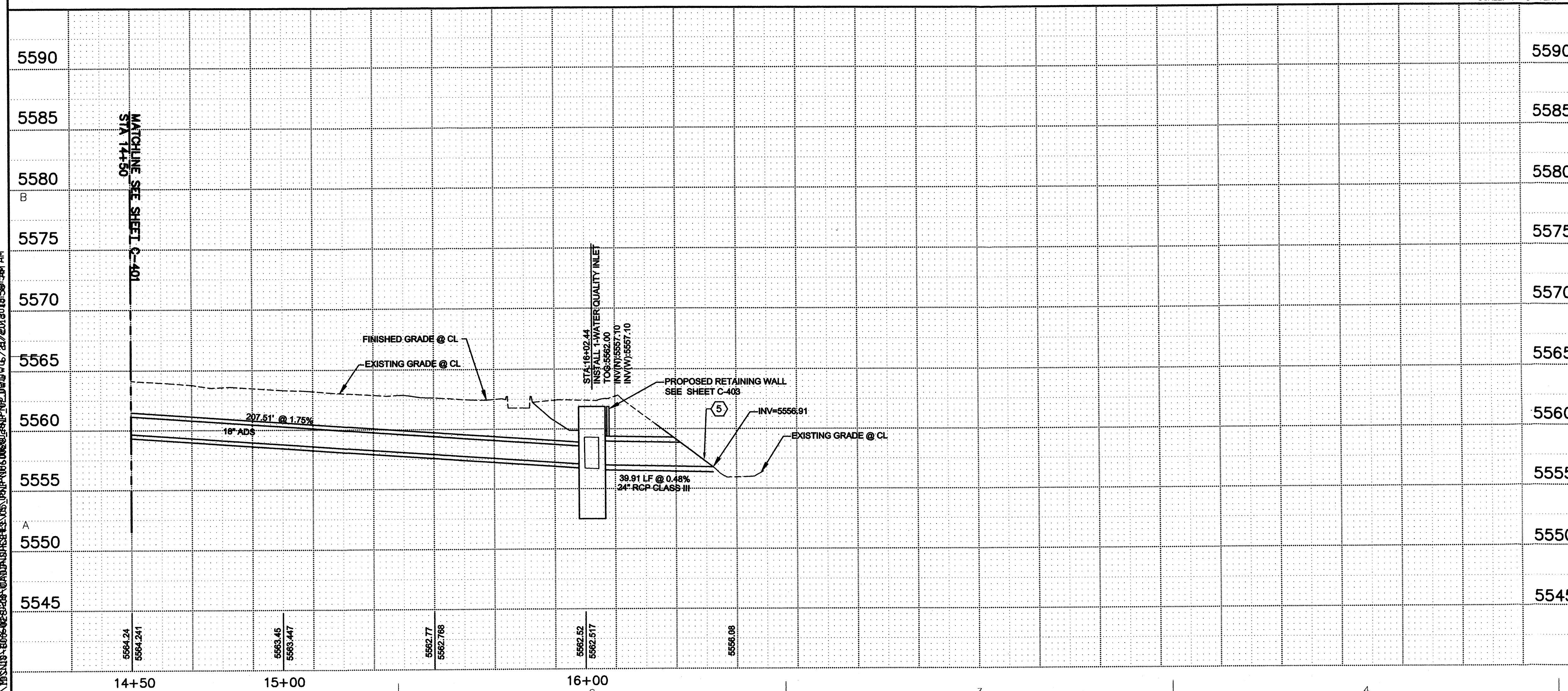
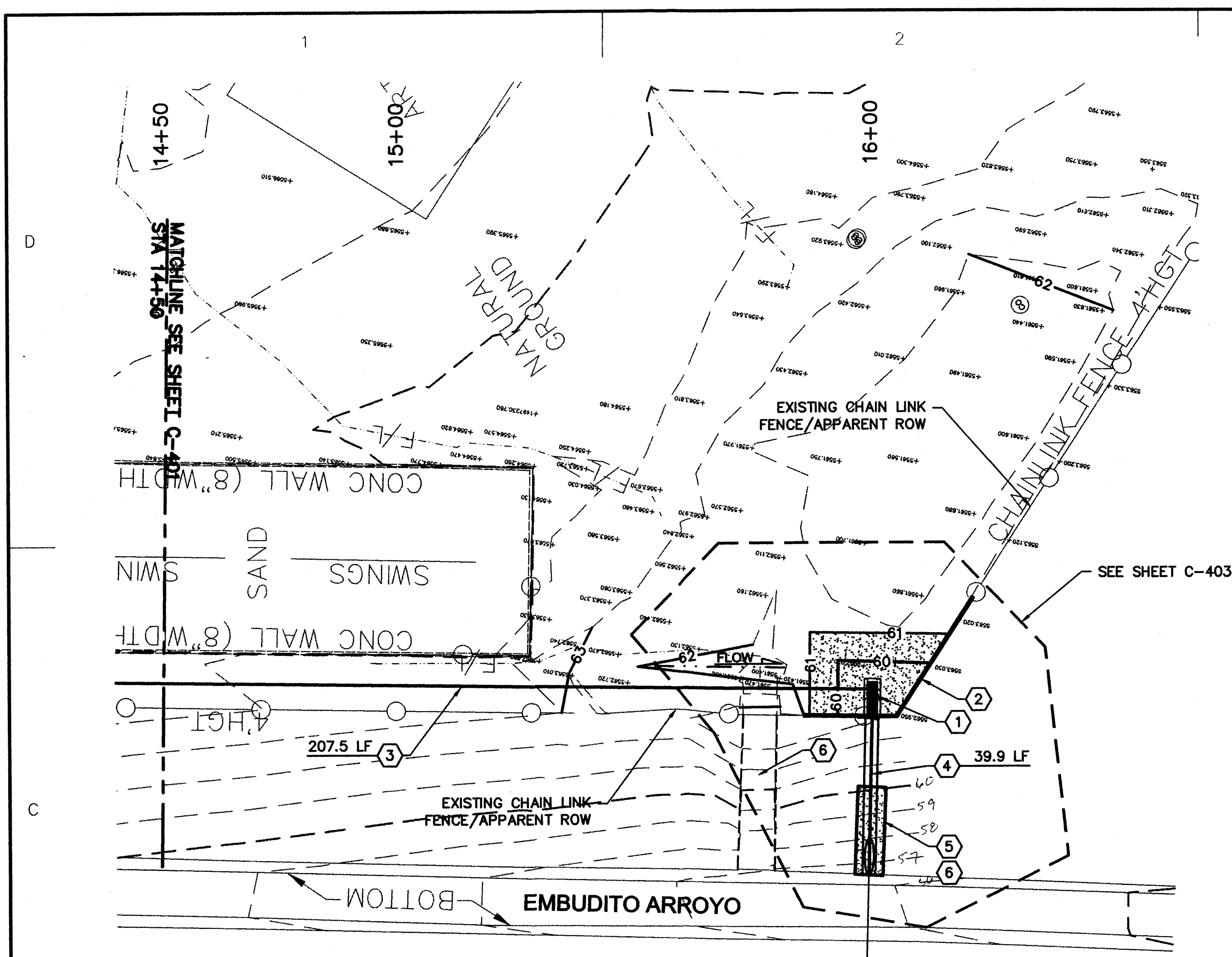
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CHECKED BY: TJA

SHEET TITLE
**STORM DRAIN
PLAN AND
PROFILE**

SHEET
C-401

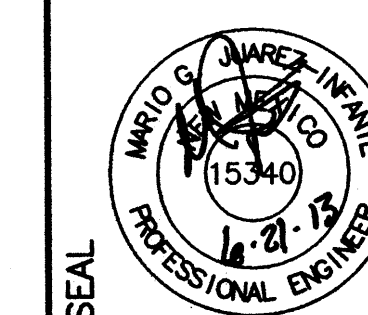




- ## SHEET KEY NOTES

1. INSTALL 1-MODIFIED WATER QUALITY STORM DBL TYPE "D" INLET. SEE DETAIL A1/C-502.
2. INSTALL 6" REINFORCED RETAINING WALL SEE DETAIL A2/C-501.
3. INSTALL 18" DIA ADS N-12 WT STORM DRAIN PIPE.
4. INSTALL 24" CLASS III RCP STORM DRAIN PIPE.
5. INSTALL CHANNEL PENETRATION PER DETAIL C-503.
6. CONTRACTOR TO GRADE AREA TO MATCH ADJACENT SLOPE. CONTACT AND COORDINATE WITH APS ON-CALL LANDSCAPE CONTRACTOR FOR SOIL AMENDMENT, SODDING AND IRRIGATION ADJUSTMENTS.

CONSULTANTS



PROJECT NAME
MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM

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PROJECT NO:	10-600-028-00
DRAWN BY:	JLL
CHECKED BY:	TJA
SHEET TITLE	

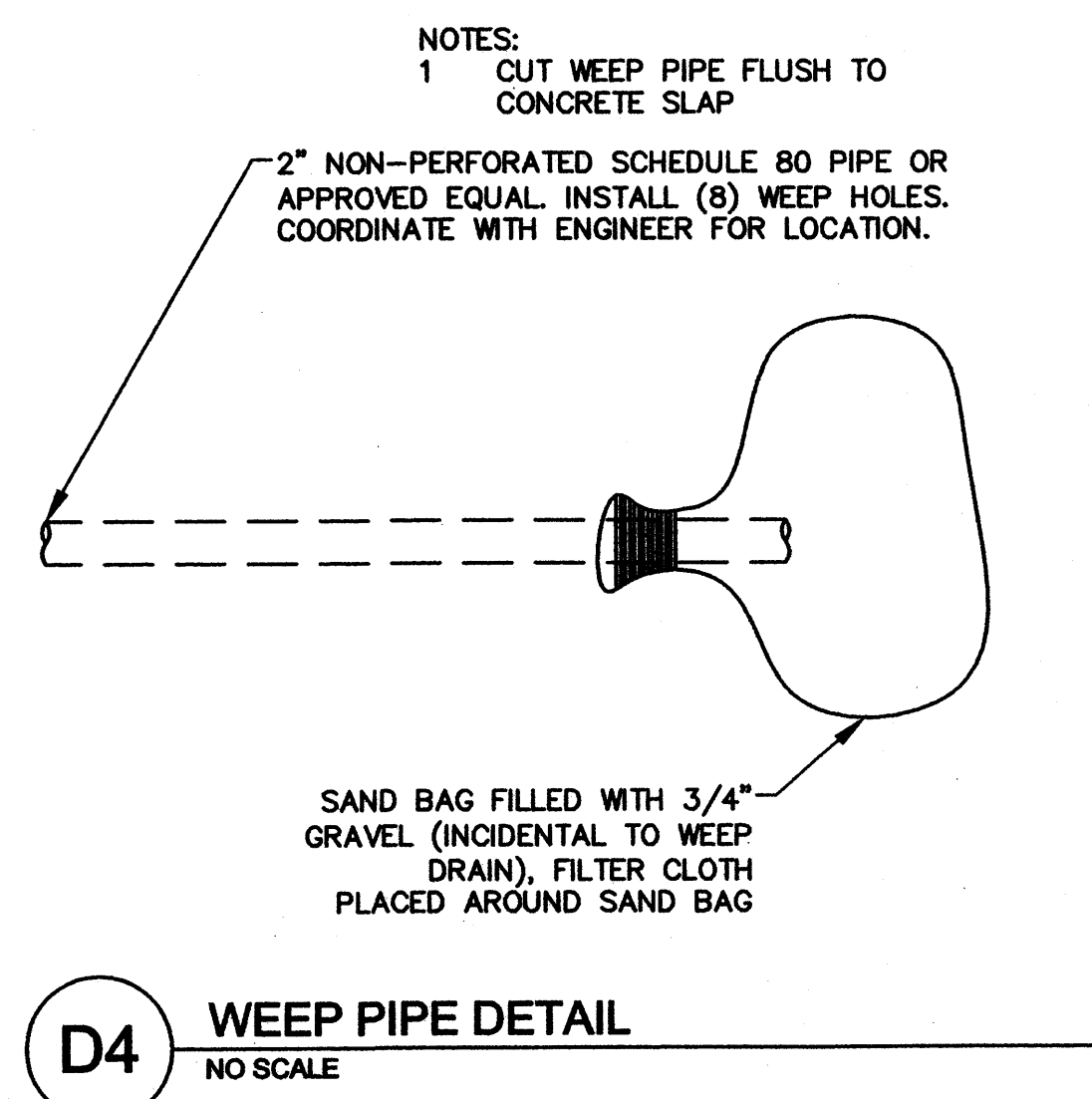
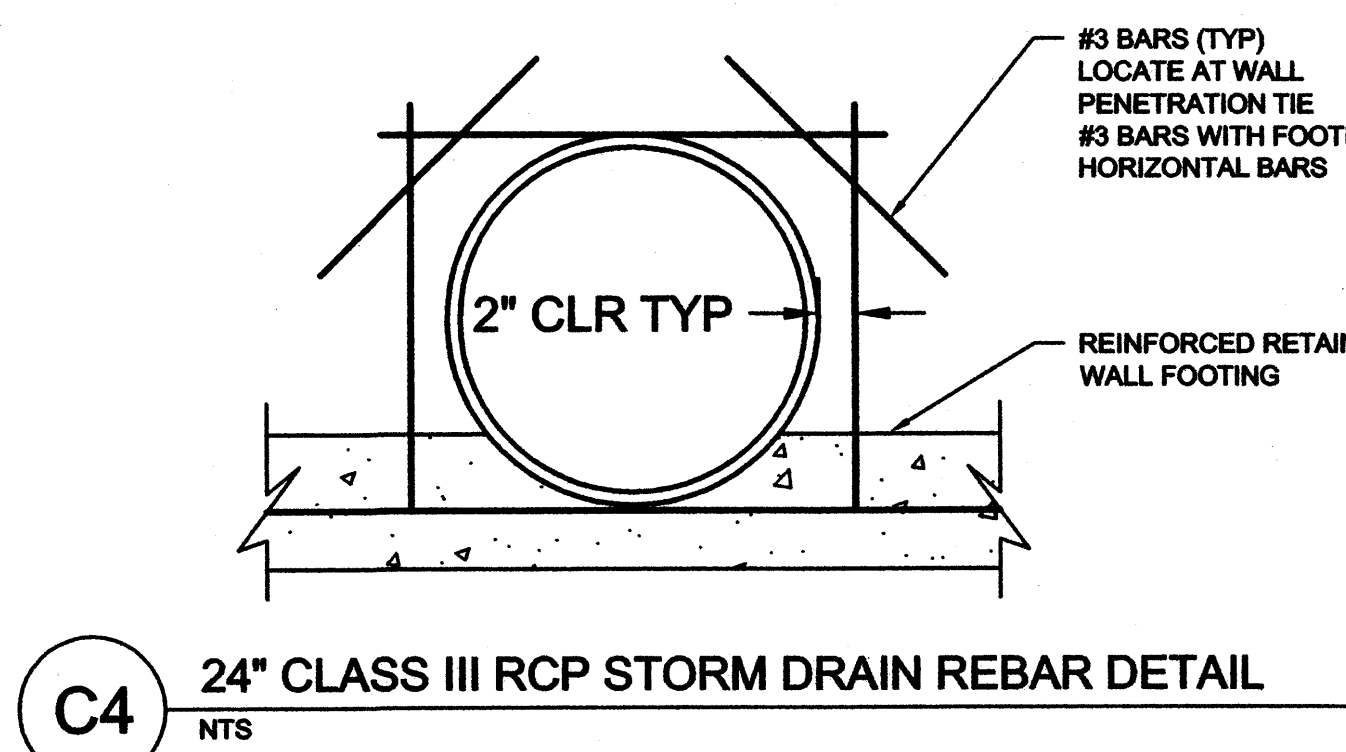
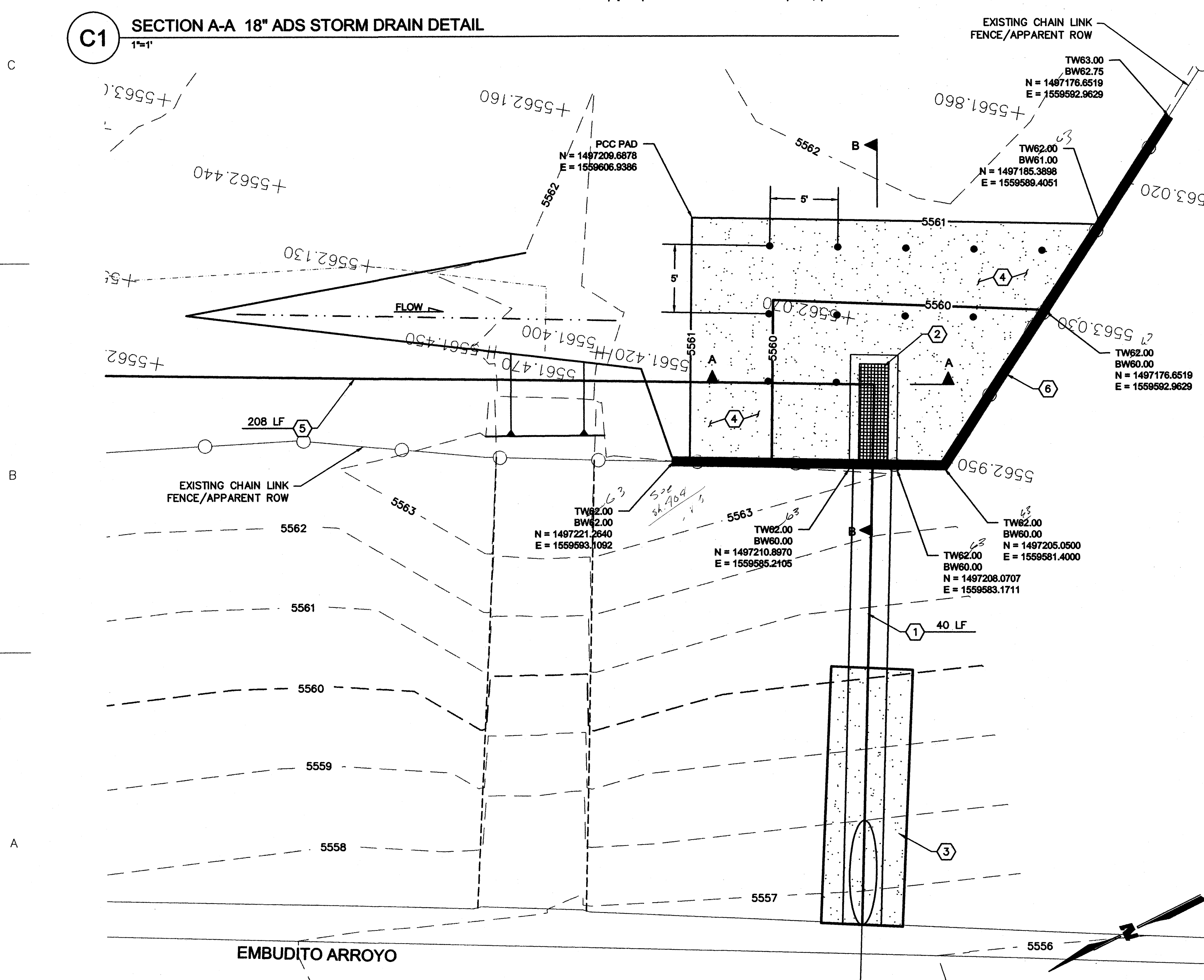
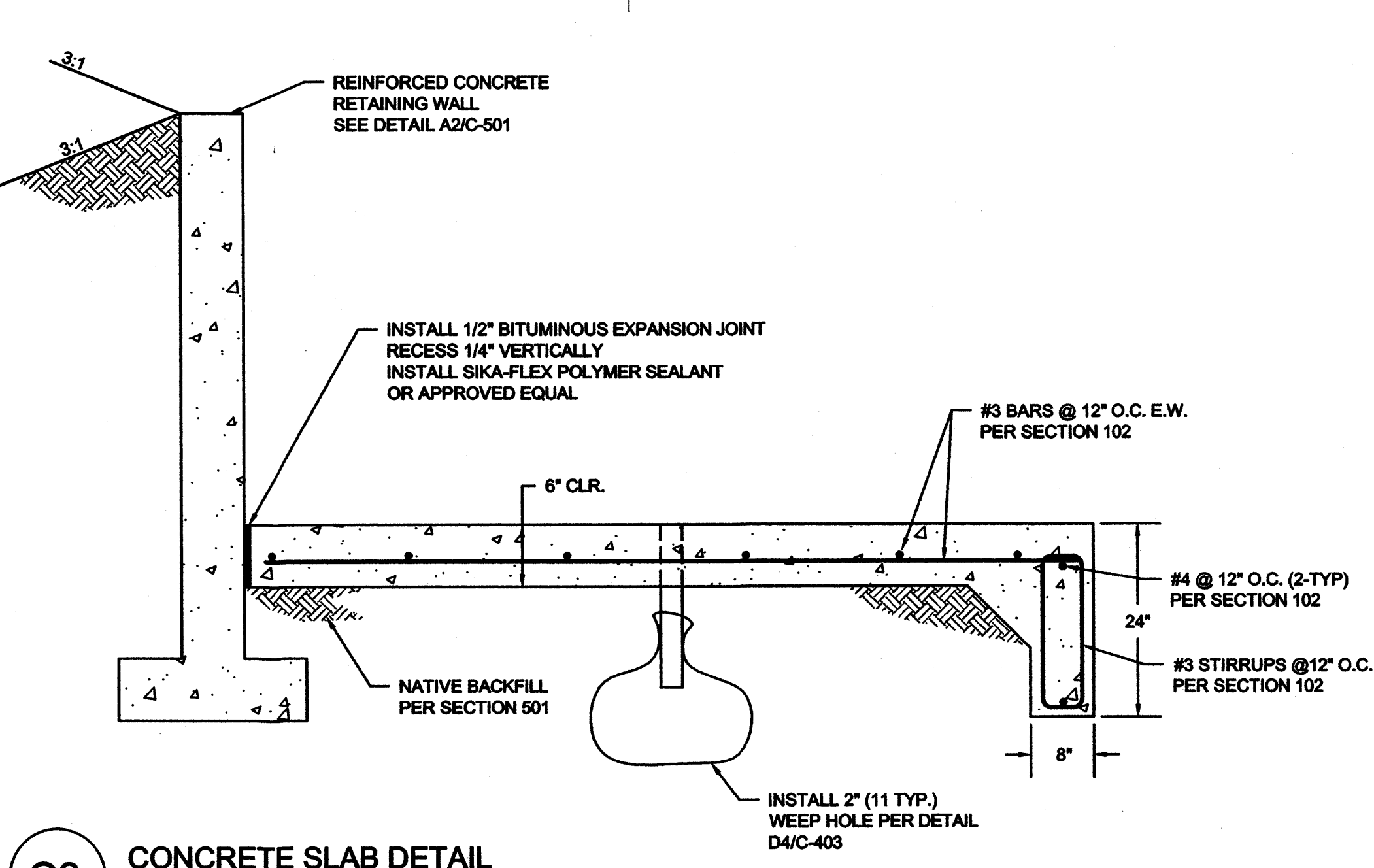
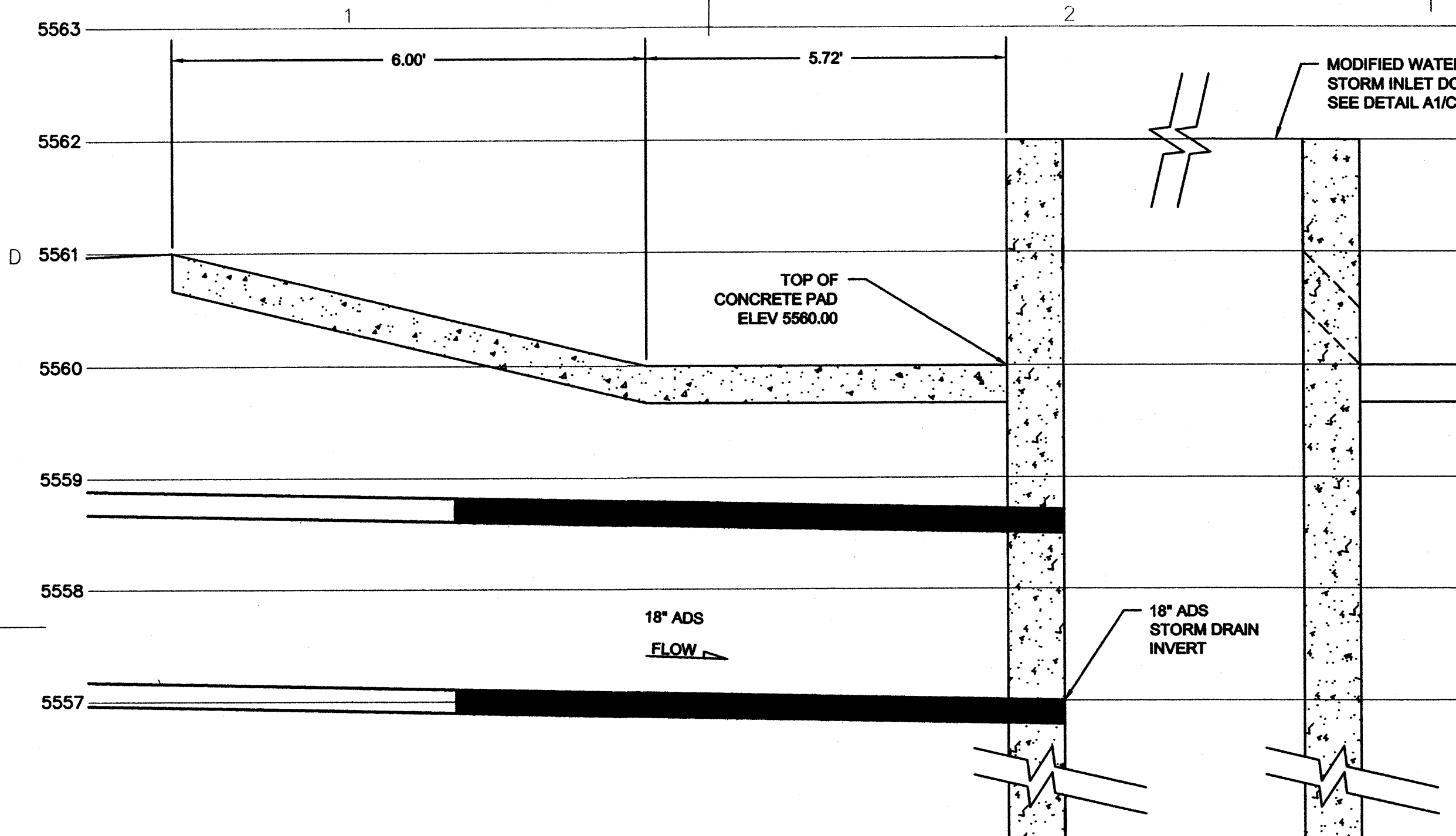
STORM DRAIN
PLAN AND
PROFILE

SHEET
C-402

50.19

**WILSON
& COMPANY**
4900 Lang Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

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GENERAL NOTES

1. REMOVE AND RESET EXISTING CHAINLINK FENCE ON NEW REINFORCED CONCRETE RETAINING WALL. COORDINATE WITH ON CALL FENCING CONTRACTOR FOR SLEEVE LOCATIONS
2. RETAINING WALL AND WATER QUALITY INLET SHALL BE POURED MONOLITHICALLY.

SHEET KEY NOTES

1. INSTALL 24" DIA RCP CLASS III DRAIN PIPE.
2. INSTALL 1-WATER QUALITY DBL TYPE "D" INLET. SEE DETAIL A1/C-502.
TOG ELEV=5562.00
INV ELEV=5557.10
SUMP ELEV=5553.10
3. INSTALL CHANNEL PENETRATION. SEE SHEET C-503.
4. INSTALL 4" PCC SIDEWALK. SEE DETAIL A5/C-501.
5. INSTALL 18" DIA ADS STORM DRAIN PIPE.
6. INSTALL 6" REINFORCED RETAINING WALL SEE DETAIL A2/C-501.

Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
3. Two working days prior to any excavation, the contractor must contact **New Mexico One Call**, dial "811" [or (505) 260-1990] for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets shall be performed on a 24-hour basis.

City Inspector - Jason Rodriguez

SPECIAL ORDER 19 (SO-19)

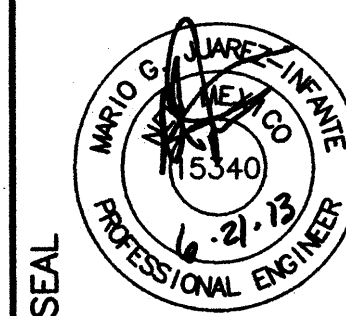
LEGEND

○ PP	POWER POLE
○ SM	SANITARY MANHOLE
○ W	WATER VALVE
○ F	FIRE HYDRANT
○ L	LIGHTPOLE
○ T	TELEPHONE MANHOLE
○ S	TRAFFIC SIGN
○ V	VAULT
○ R	ROOF DRAIN
○ P	TV PEDESTAL
○ SCB	SPRINKLER CONTROL BOX
○ T	DECIDUOUS TREE
○ S	SANITARY CLEANOUT
5348.67	FINISH FLOOR ELEVATION
— GAS —	UNDERGROUND GASLINE
— UGE —	UNDERGROUND ELECTRIC
— OHE —	OVERHEAD ELECTRIC
— FO —	FIBER OPTIC LINE
— UGTV —	UNDERGROUND TV LINE
— SS —	SANITARY SEWER LINE
— 5530 —	CURB AND GUTTER
— 5530 —	INDEX CONTOUR
— 5530 —	INTERMEDIATE CONTOUR
●	PROPOSED WEEP HOLE
→	SLOPE DIRECTION



WILSON & COMPANY
4900 Long Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

CONSULTANTS



PROJECT NAME
**MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM**

MARK	DATE	DESCRIPTION

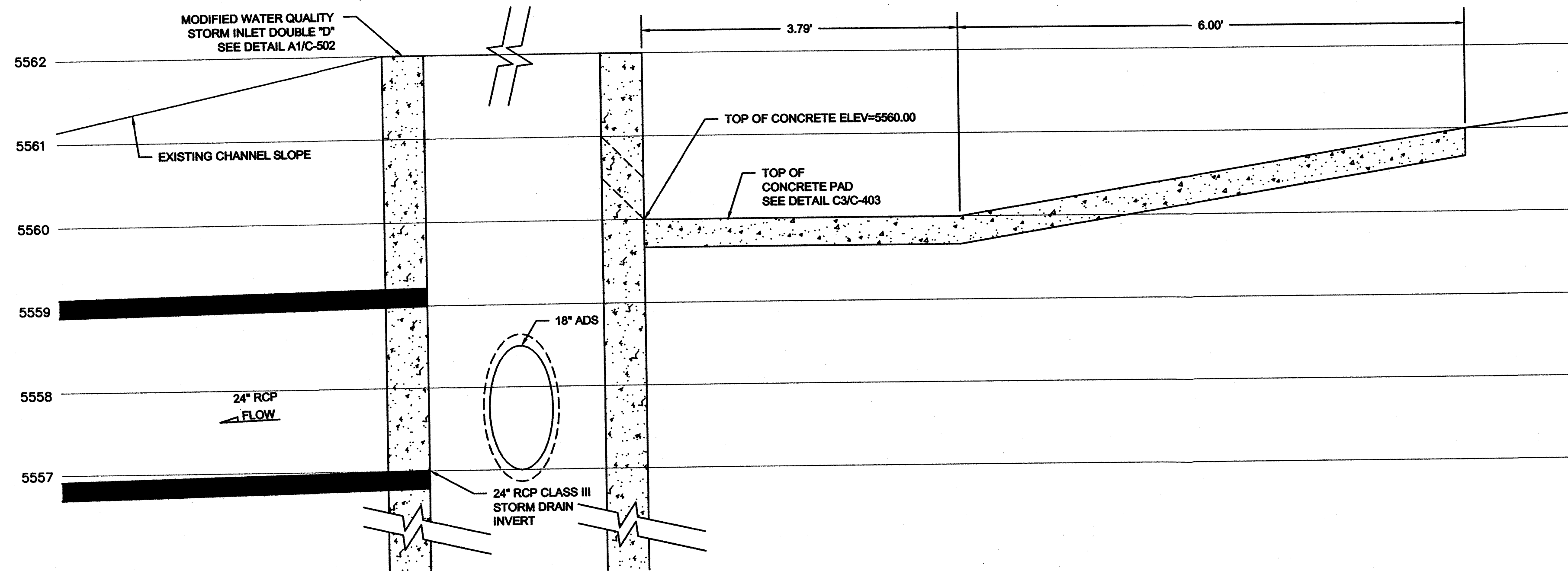
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**WATER
QUALITY
STRUCTURE**

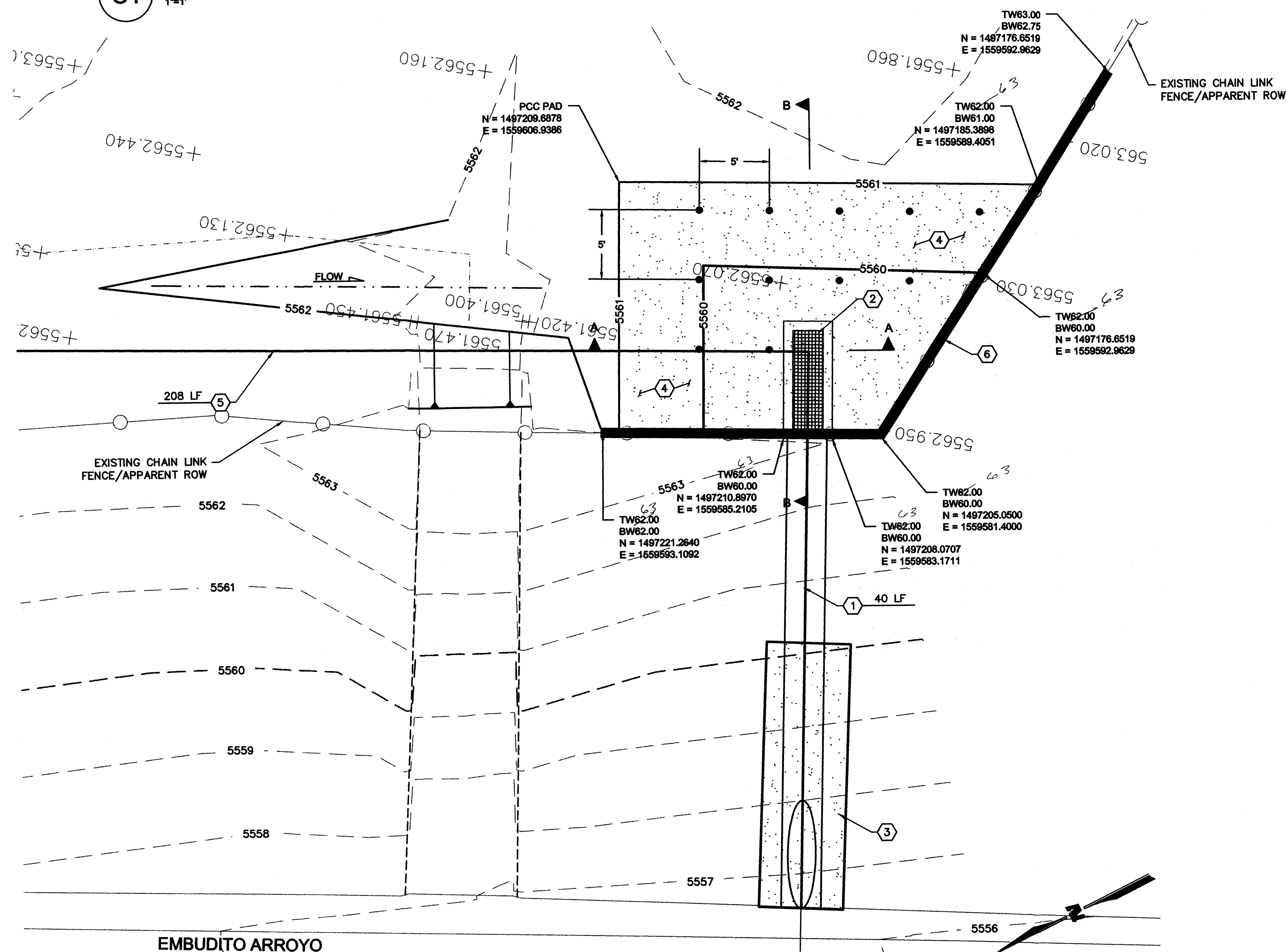
SHEET
C-403

SO-19

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C1 SECTION B-B - 24" RCP CLASS III STORM DRAIN DETAIL
1"=1'



GENERAL NOTES

1. REMOVE AND RESET EXISTING CHAINLINK FENCE ON NEW REINFORCED CONCRETE RETAINING WALL. COORDINATE WITH ON CALL FENCING CONTRACTOR FOR SLEEVE LOCATIONS
2. RETAINING WALL AND WATER QUALITY INLET SHALL BE POURED MONOLITHICALLY.

SHEET KEY NOTES

1. INSTALL 24" DIA RCP CLASS III DRAIN PIPE.
2. INSTALL 1"-WATER QUALITY DBL TYPE "D" INLET. SEE DETAIL A1/C-502.
TOG ELEV=5562.00
INV ELEV=5557.10
SUMP ELEV=5553.10
3. INSTALL CHANNEL PENETRATION. SEE SHEET C-503.
4. INSTALL 4" PCC SIDEWALK. SEE DETAIL A5/C-501.
5. INSTALL 18" DIA ADS STORM DRAIN PIPE.
6. INSTALL 6" REINFORCED RETAINING WALL SEE DETAIL A2/C-501.

Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
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4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets shall be performed on a 24-hour basis.

City Inspector - Jason Rodriguez

SPECIAL ORDER 19 (SO-19)

LEGEND

○ PP	POWER POLE
⊗	SANITARY MANHOLE
⊕	WATER VALVE
⊙	FIRE HYDRANT
⊛	LIGHTPOLE
⊞	TELEPHONE MANHOLE
⊟	TRAFFIC SIGN
⊠	VAULT
⊡	ROOF DRAIN
⊢	TV PEDESTAL
⊣	SPRINKLER CONTROL BOX
⊤	DECIDUOUS TREE
⊥	SANITARY CLEANOUT
5348.67'	FINISH FLOOR ELEVATION
— GAS —	UNDERGROUND GASLINE
— UGE —	UNDERGROUND ELECTRIC
— OHE —	OVERHEAD ELECTRIC
— FO —	FIBER OPTIC LINE
— UGTV —	UNDERGROUND TV LINE
— SS —	SANITARY SEWER LINE
=====	CURB AND GUTTER
— 5530 —	INDEX CONTOUR
— — — — —	INTERMEDIATE CONTOUR
•	PROPOSED WEEP HOLE
➔	SLOPE DIRECTION



PROJECT NAME
MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM

MARK	DATE	DESCRIPTION

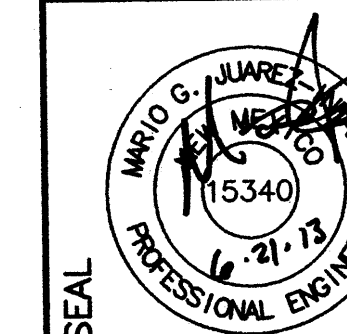
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DRAWN BY: JLL
CHECKED BY: TJA
SHEET TITLE

**WATER
QUALITY
STRUCTURE**

SHEET
C-404

**WILSON
& COMPANY**
4900 Long Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

CONSULTANTS



SEAL

PROJECT NAME

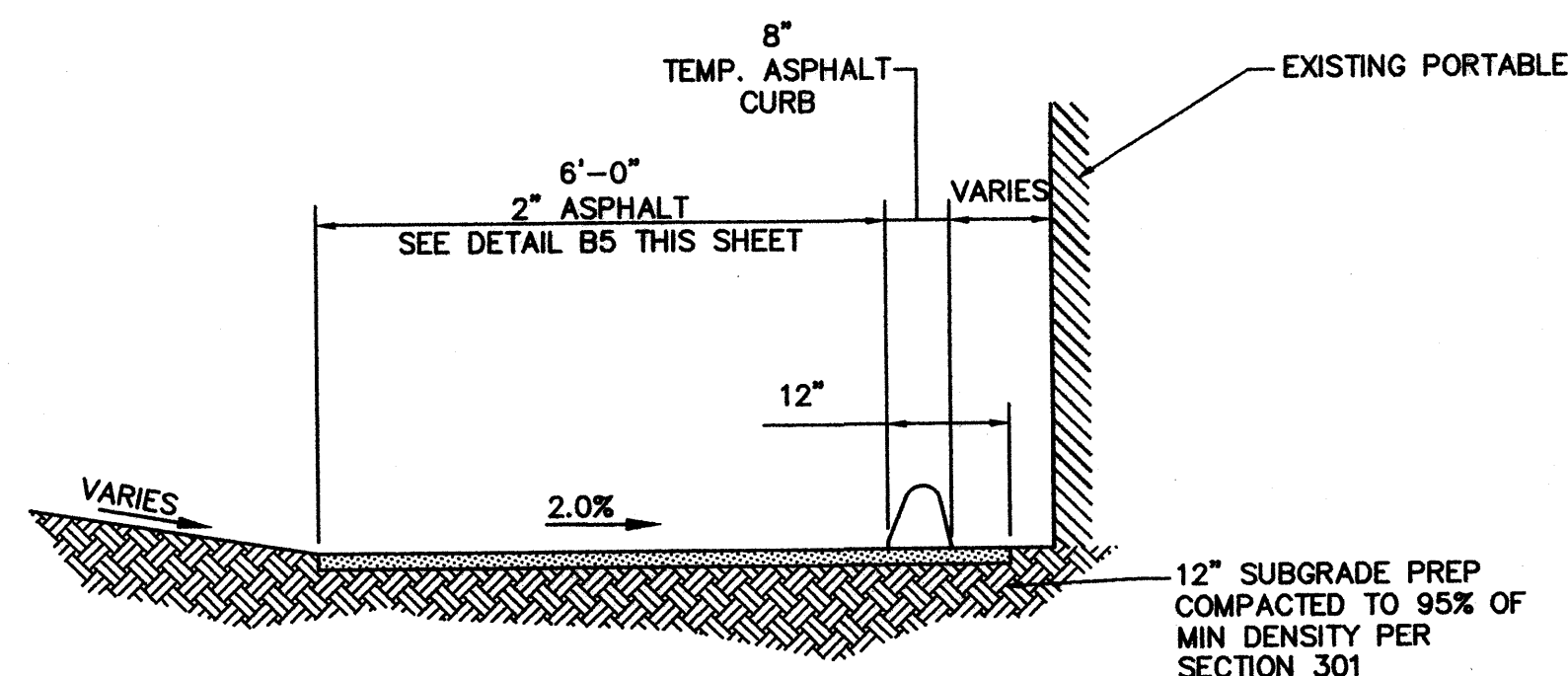
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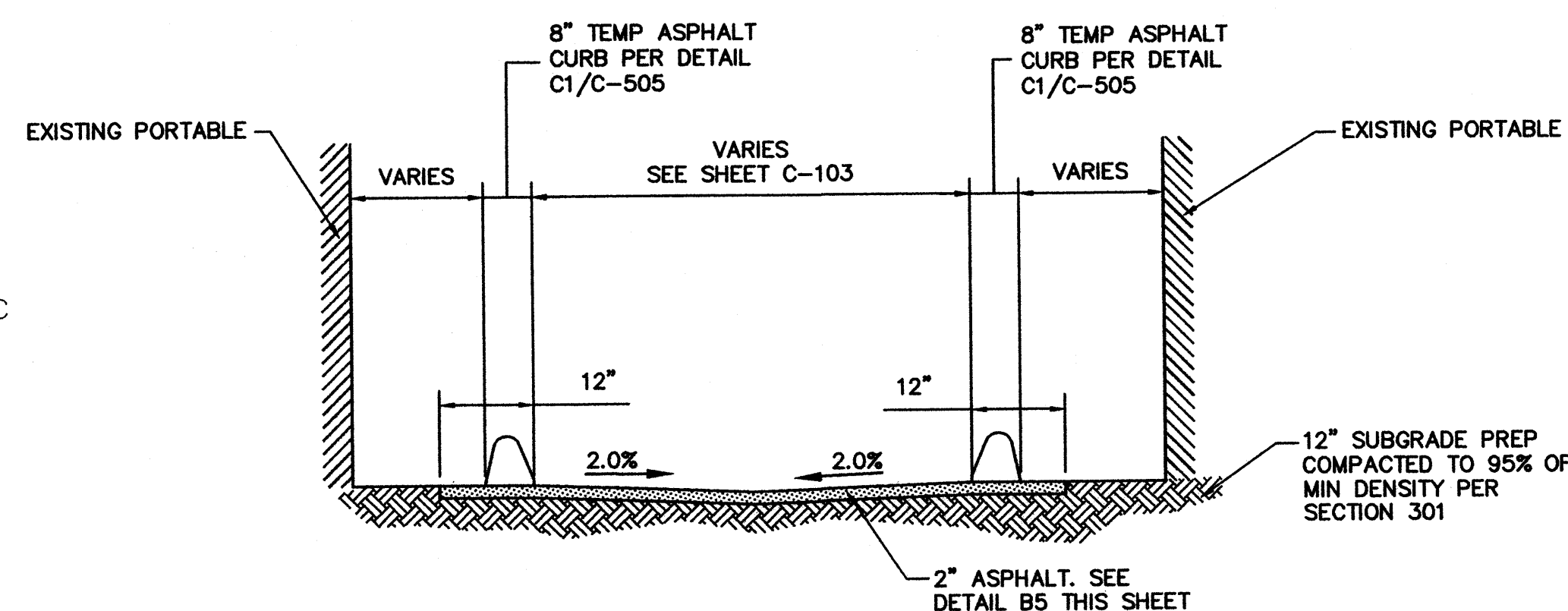
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SD-19

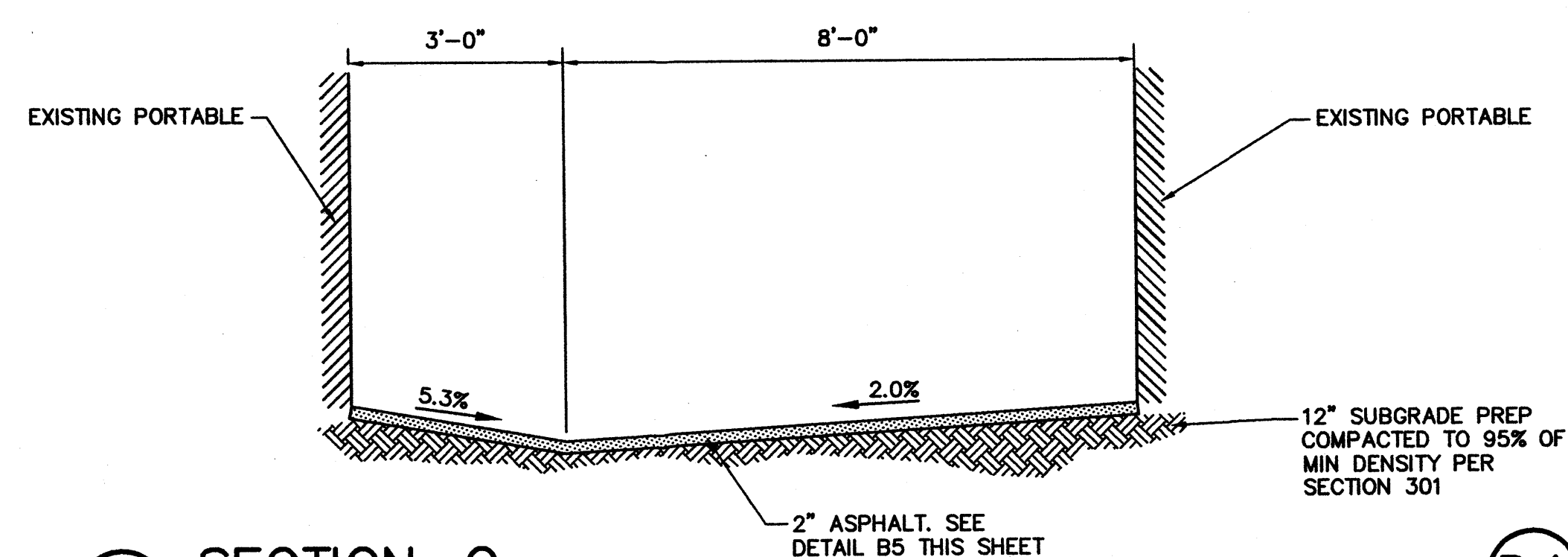
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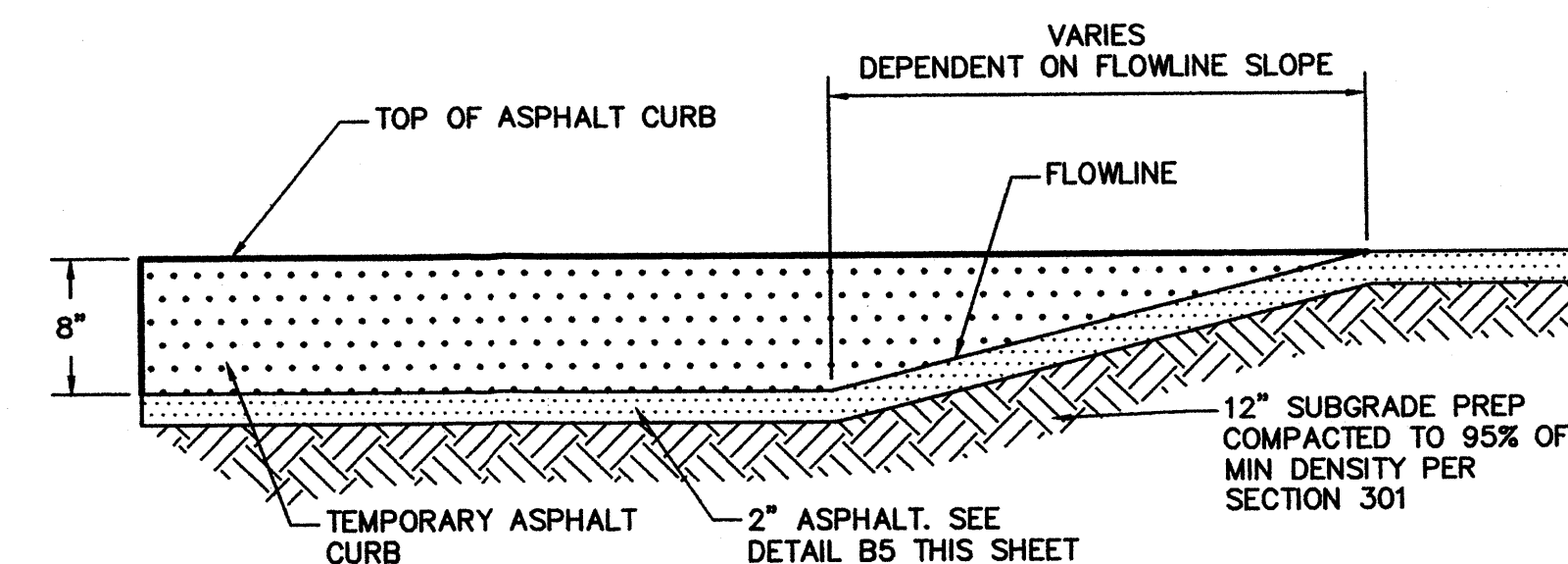
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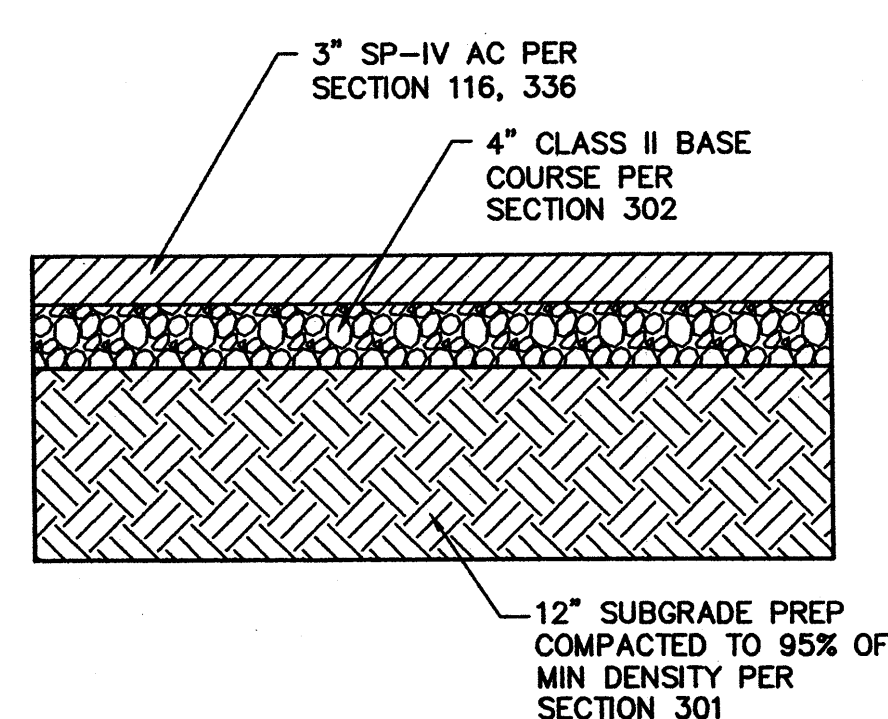
C1 SECTION-B
SCALE: NTS



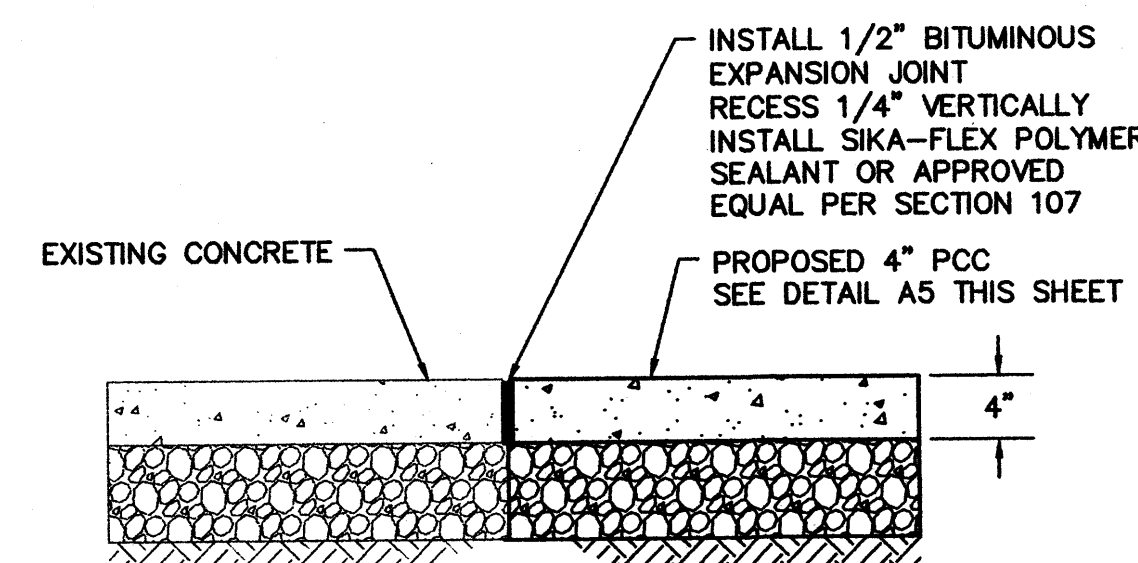
D3 SECTION-C
SCALE: NTS



D4 TRANSITION TO 8" TEMP. ASPHALT CURB
SCALE: NTS

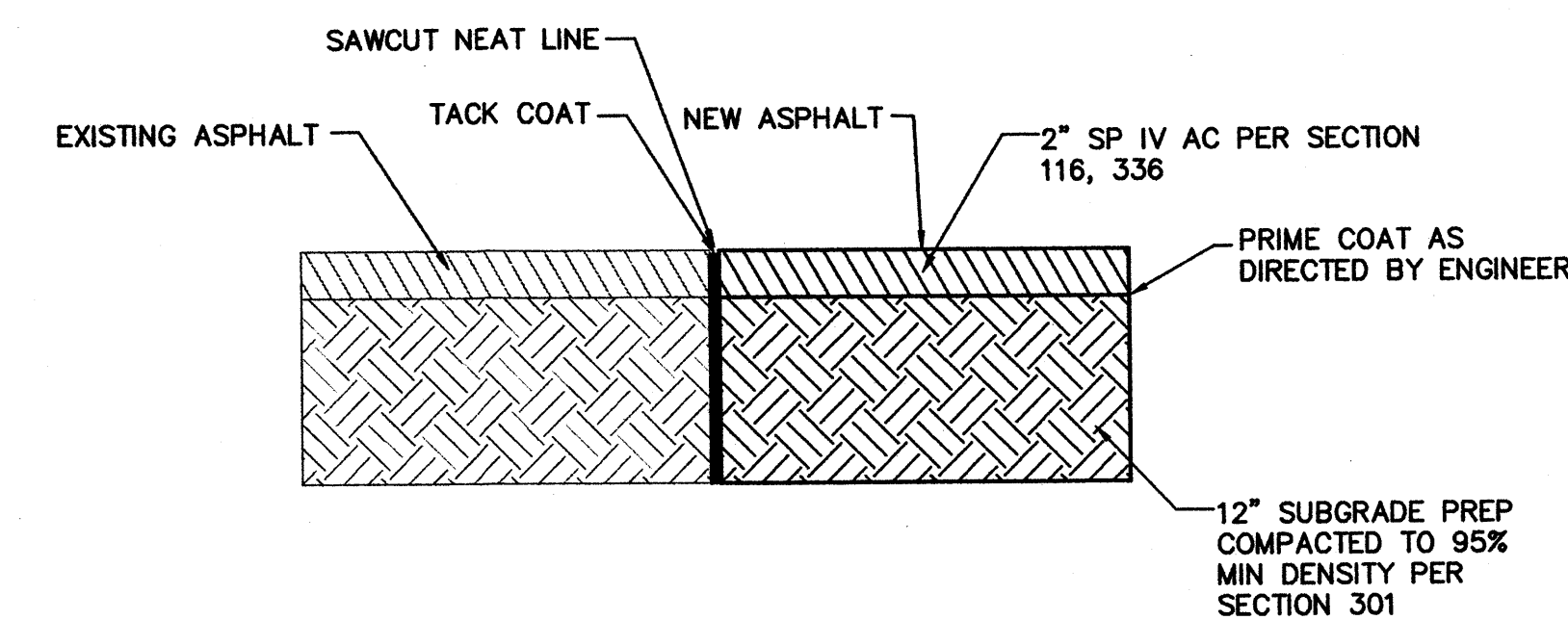


C2 3" ASPHALT SECTION
SCALE: NTS

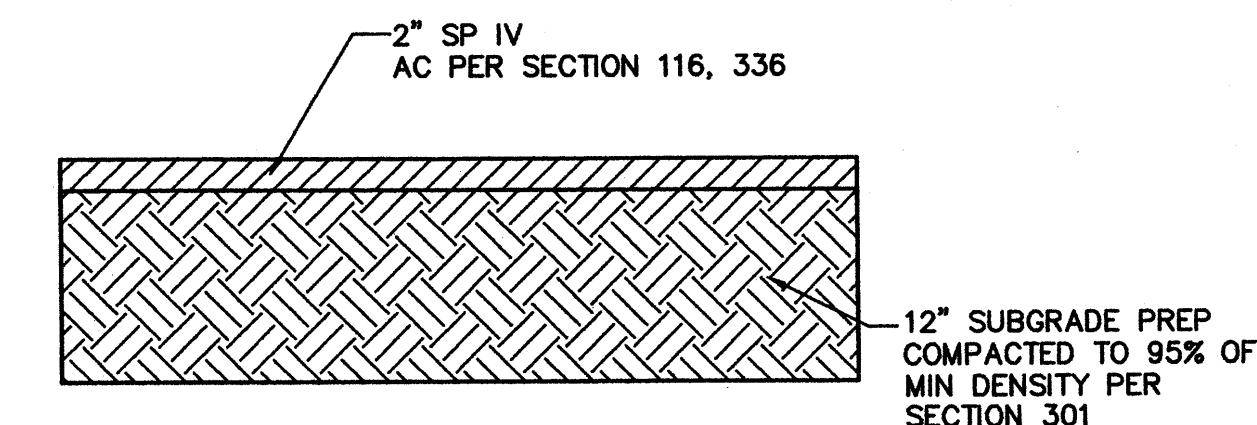


- CONSTRUCTION NOTES
1. WHEN ABUTTING TO VERTICAL WALLS, BENCHES OR BUILDINGS, INSTALL 1/2" BITUMINOUS EXPANSION JOINT. RECESS 1/4" VERTICALLY. INSTALL SIKAFLEX POLYMER SEALANT OR APPROVED EQUAL PER SECTION 107 (TYP).
 2. INSTALL CONTRACTION JOINTS @ 6'-0" OC.
 3. LIGHT BROOM FINISHED CONCRETE SURFACE REQUIRED.

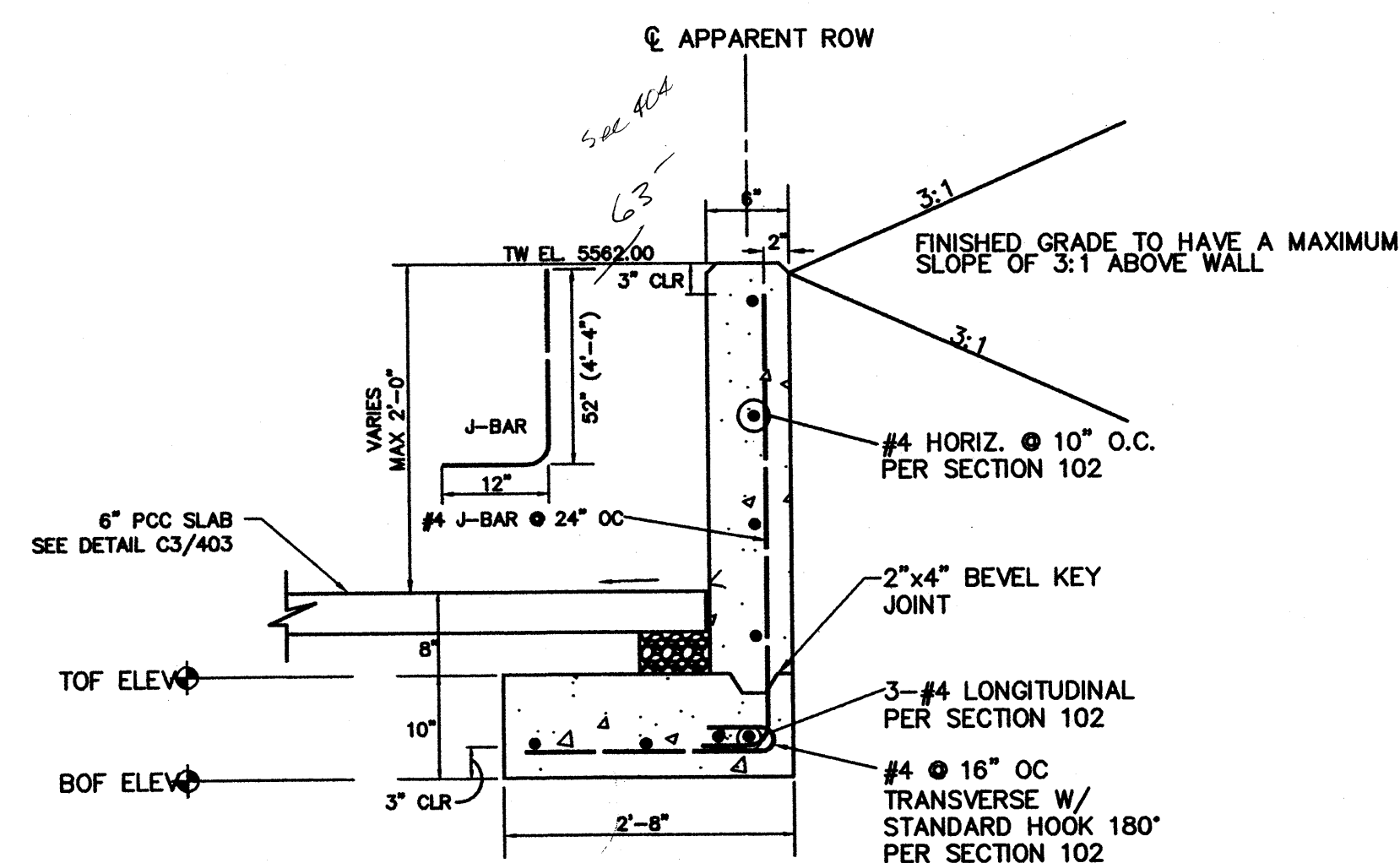
C3 OLD/NEW CONCRETE JOINT DETAIL
SCALE: NTS



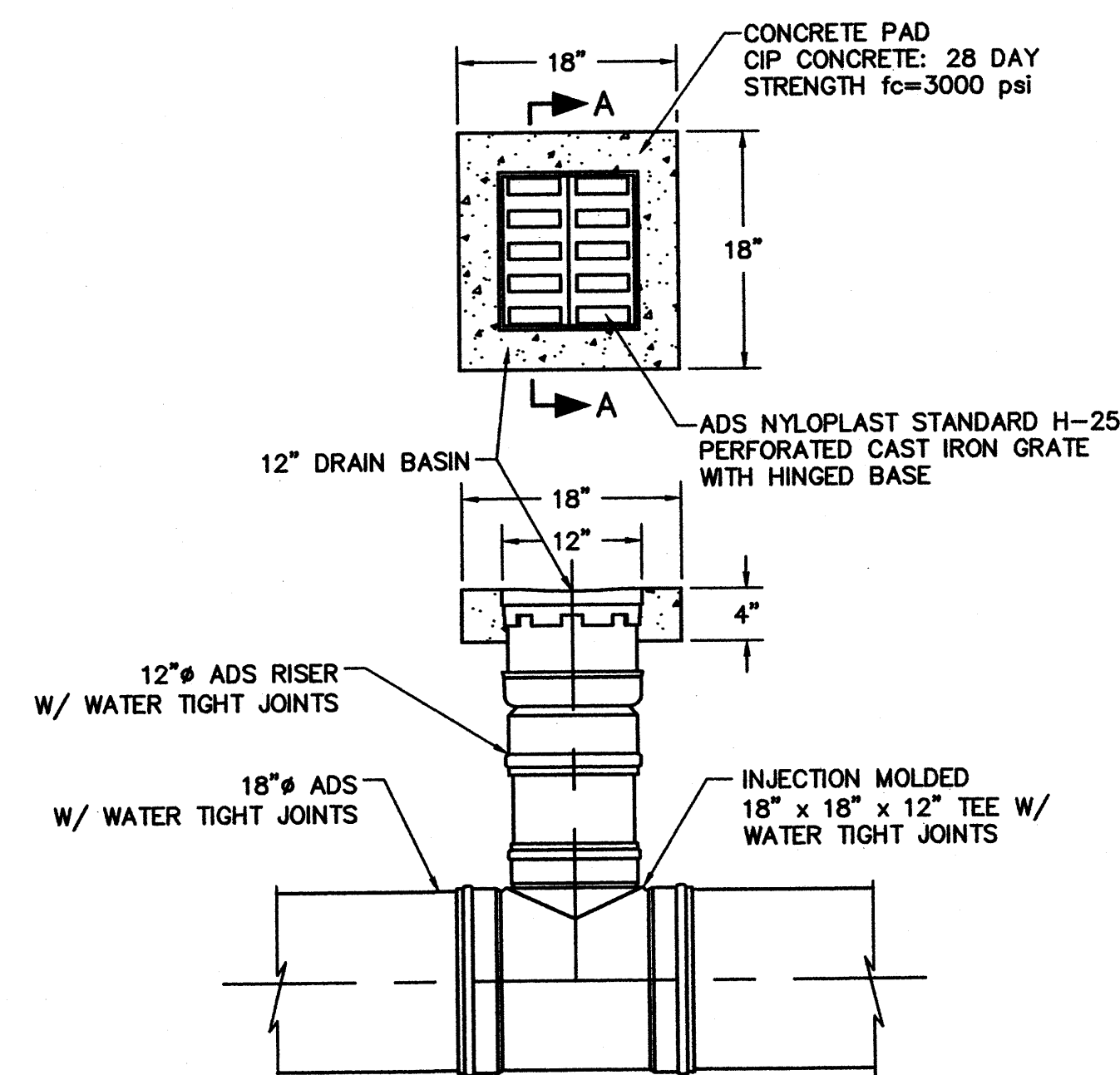
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SCALE: NTS



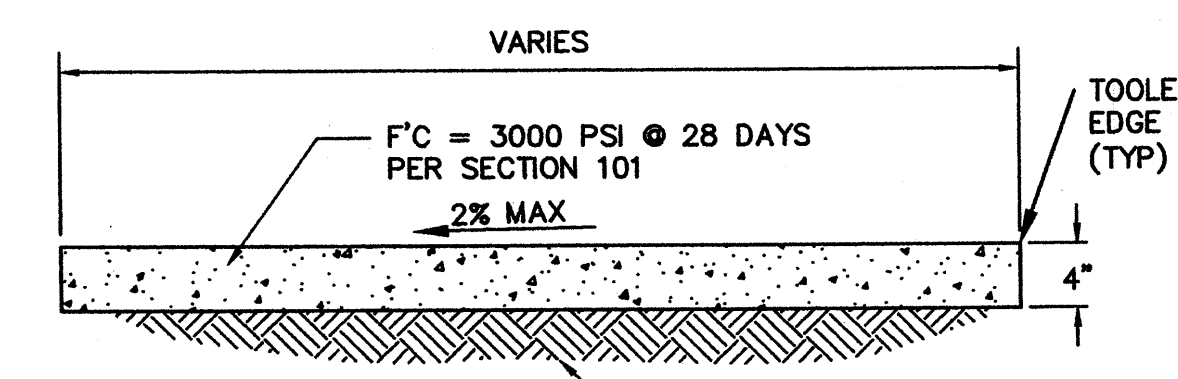
B5 2" ASPHALT SECTION
SCALE: NTS



A2 REINFORCED RETAINING WALL
SCALE: NTS

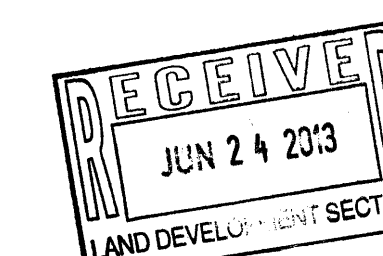


A4 12" ADS INLET
SCALE: NTS

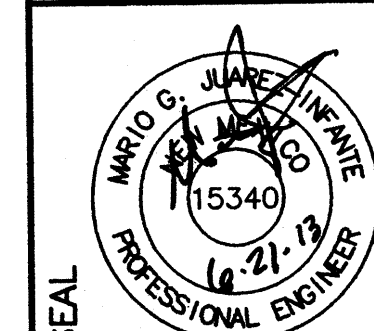


A5 4" PCC SIDEWALK
SCALE: NTS

- CONSTRUCTION NOTES
1. INSTALL 1/2" BITUMINOUS EXPANSION JOINTS WHERE SIDEWALK ABUTS BUILDINGS, FENCES AND NO MORE THAN 32' LONGITUDINALLY. INSTALL SIKAFLEX POLYMER JOINT SEALANT OR APPROVED EQUAL.
 2. INSTALL CONTRACTION JOINTS AT 6'-0" O.C.
 3. LIGHT BROOM FINISHED CONCRETE SURFACE REQUIRED, SEE DETAIL D4 THIS SHEET.
 4. AS MUCH AS POSSIBLE SIDEWALK JOINTS SHALL MATCH CURB & GUTTER JOINT SPACING.



CONSULTANTS



PROJECT NAME
MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM

MARK	DATE	DESCRIPTION

PROJECT NO:
10-600-028-00
DRAWN BY: JLL
CHECKED BY: TJA
SHEET TITLE

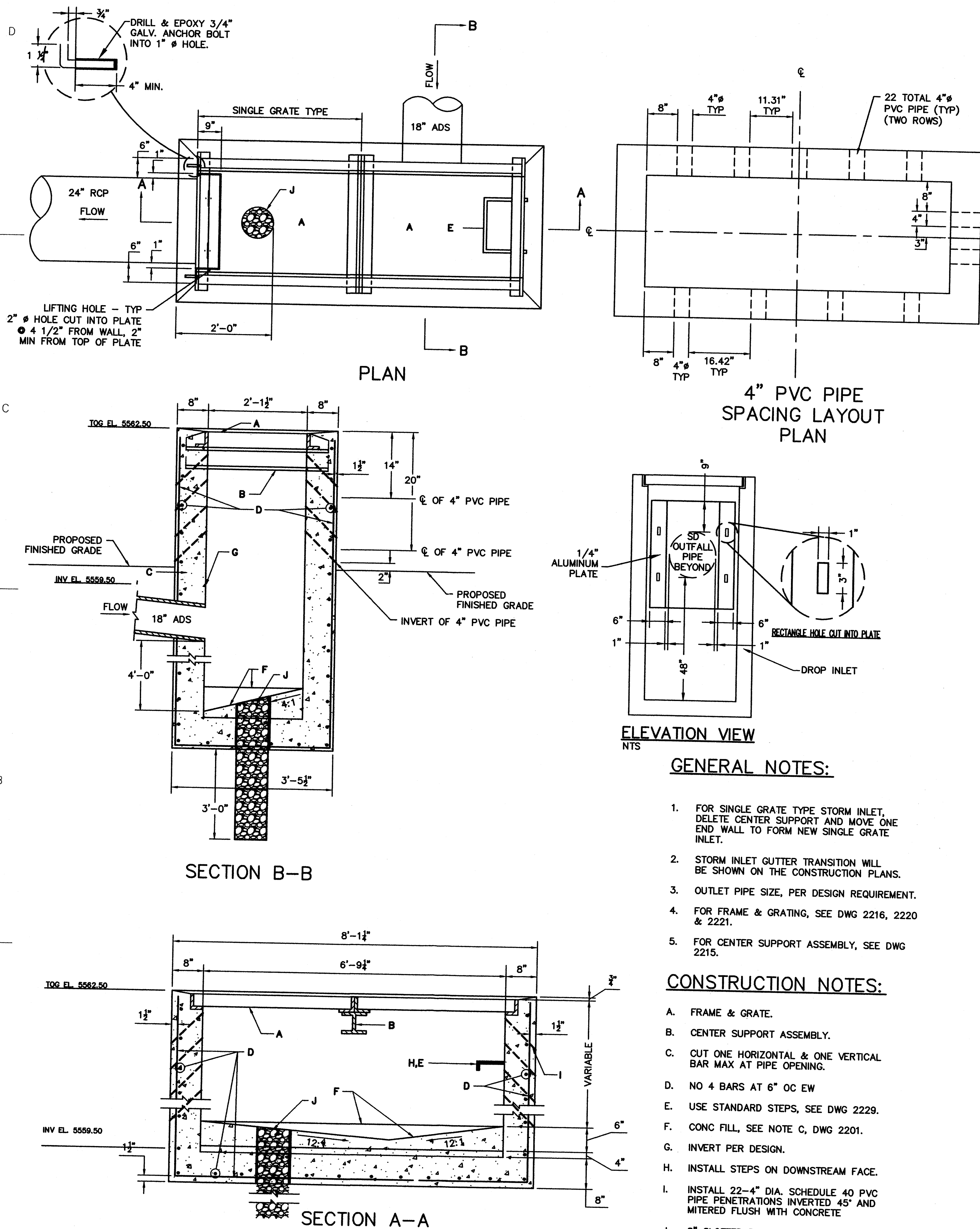
SITE
DETAILS

SHEET
C-501

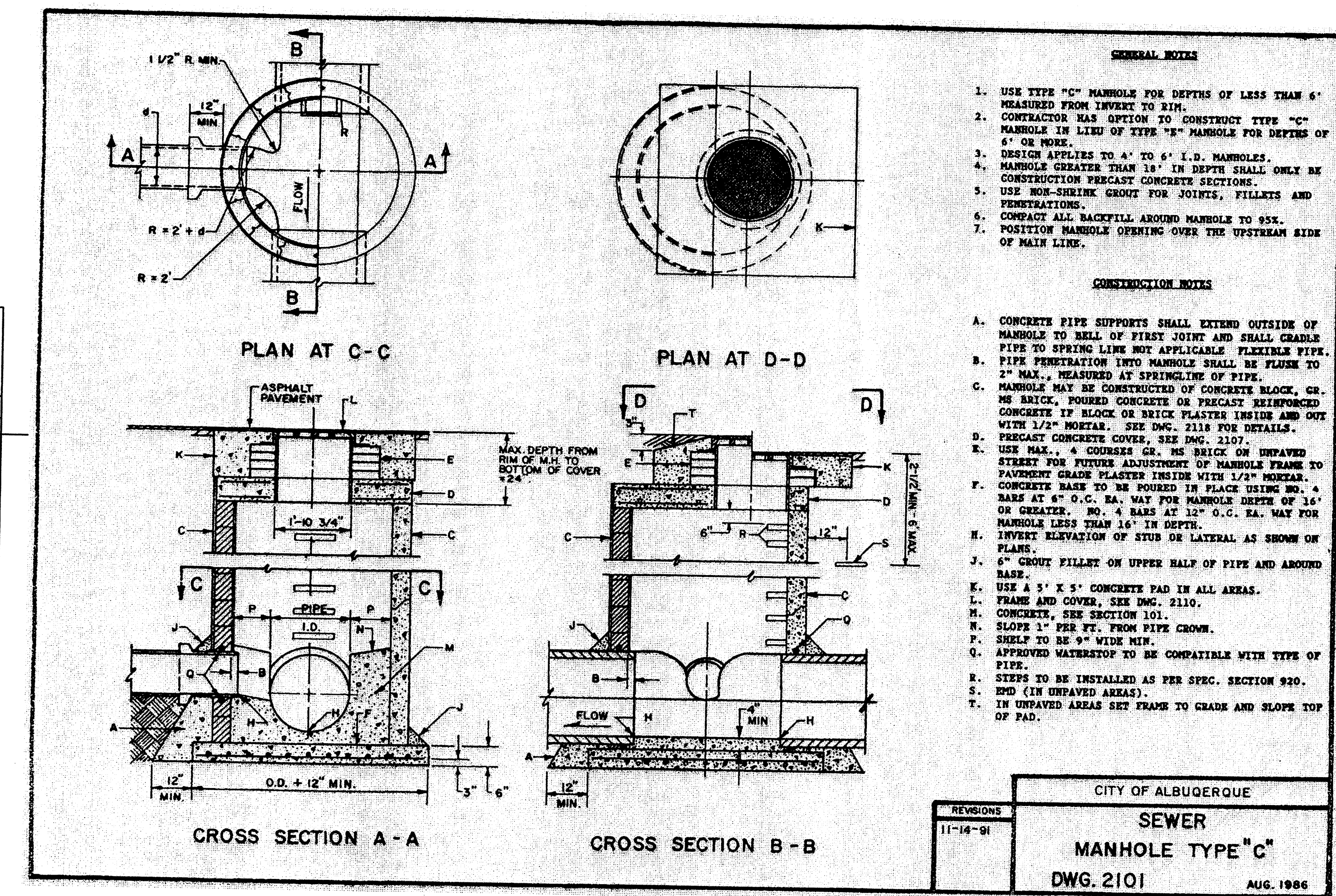
9/13

WILSON & COMPANY
4900 Long Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

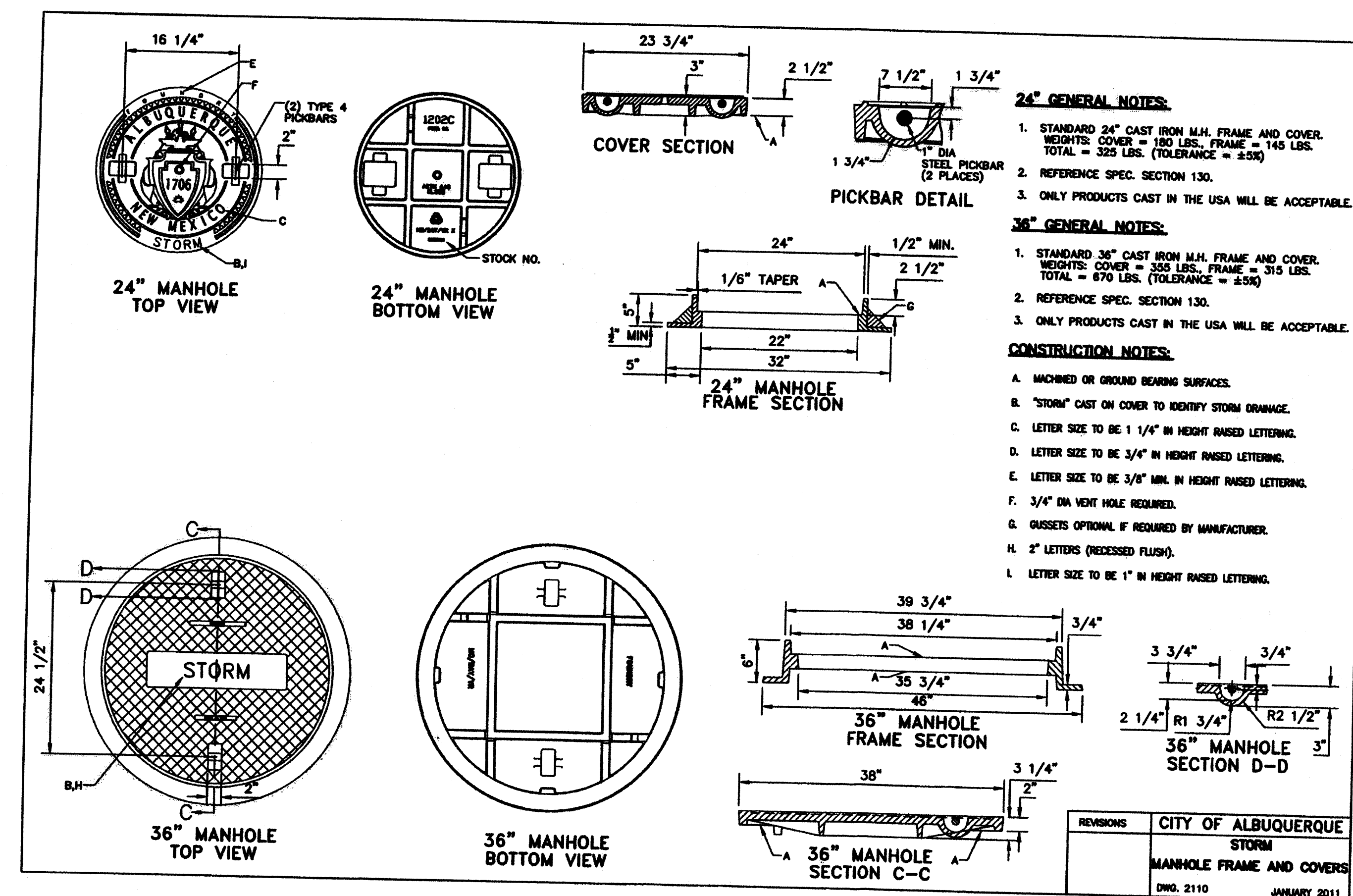
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C3 MANHOLE TYPE "C" (COA STD DWG 2101)

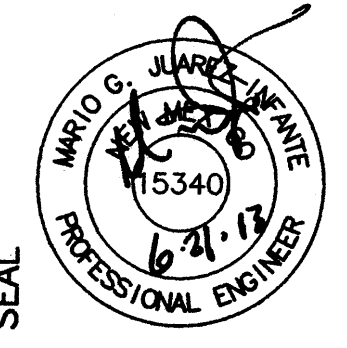


A3 MANHOLE FRAME AND COVERS (COA STD DWG 2110)



WILSON & COMPANY
4900 Lang Avenue NE
Albuquerque, NM 87109
Phone: (505) 348-4000

CONSULTANTS



PROJECT NAME
MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM

REVISIONS	DATE	DESCRIPTION

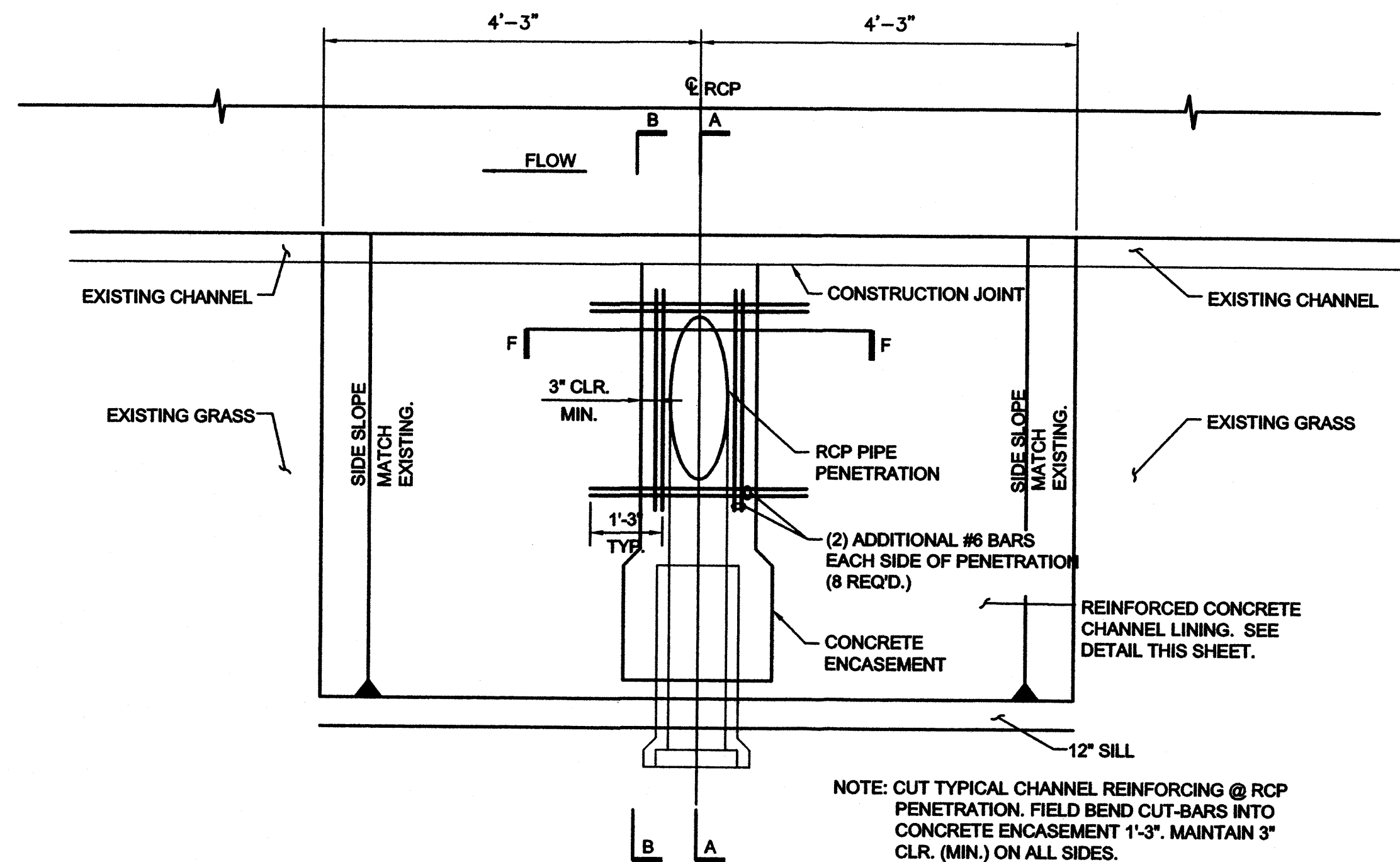
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10-600-028-00
DRAWN BY: JLL
CHECKED BY: TJA
SHEET TITLE

SITE DETAILS

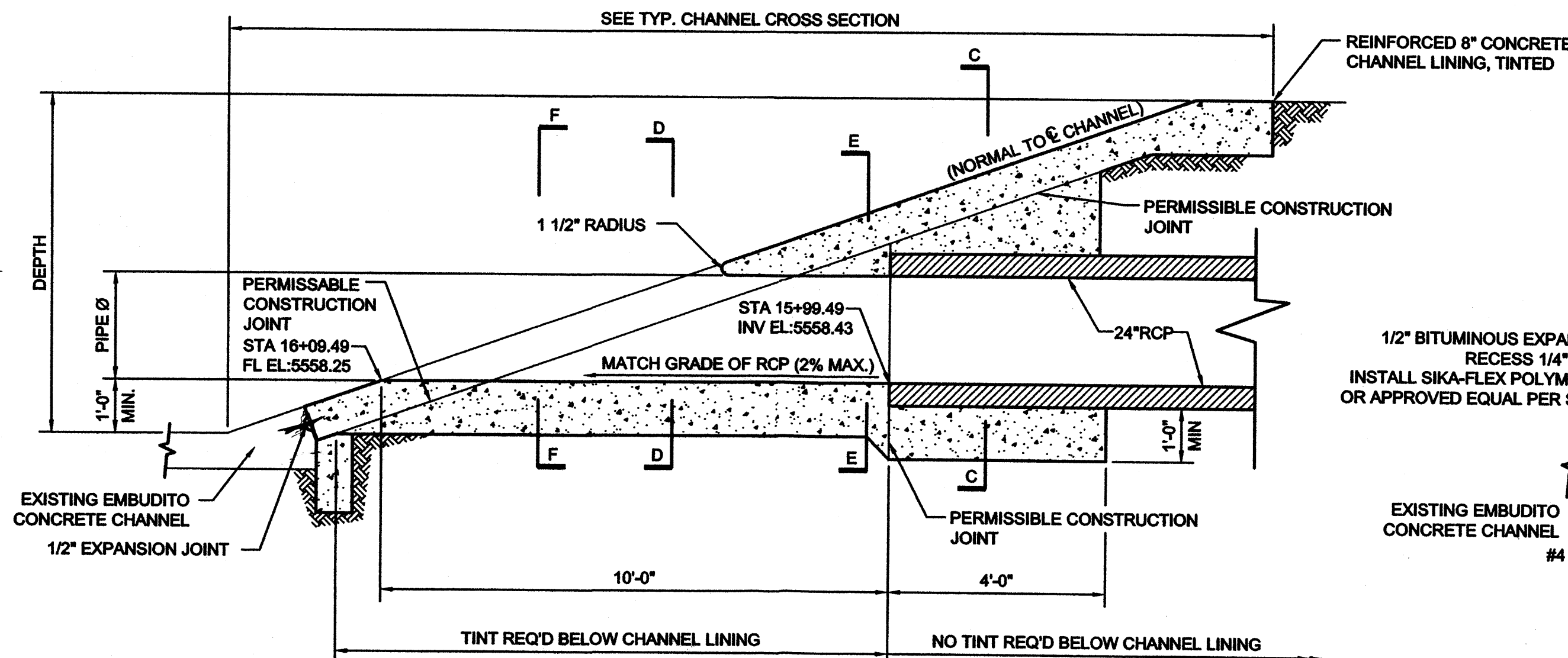
SHEET
C-502

M:\YDS\10-600-028-00\CADD\DETAILS\06-DETAILS\1060028-DTL03.DWG 6/21/2013 9:14 AM

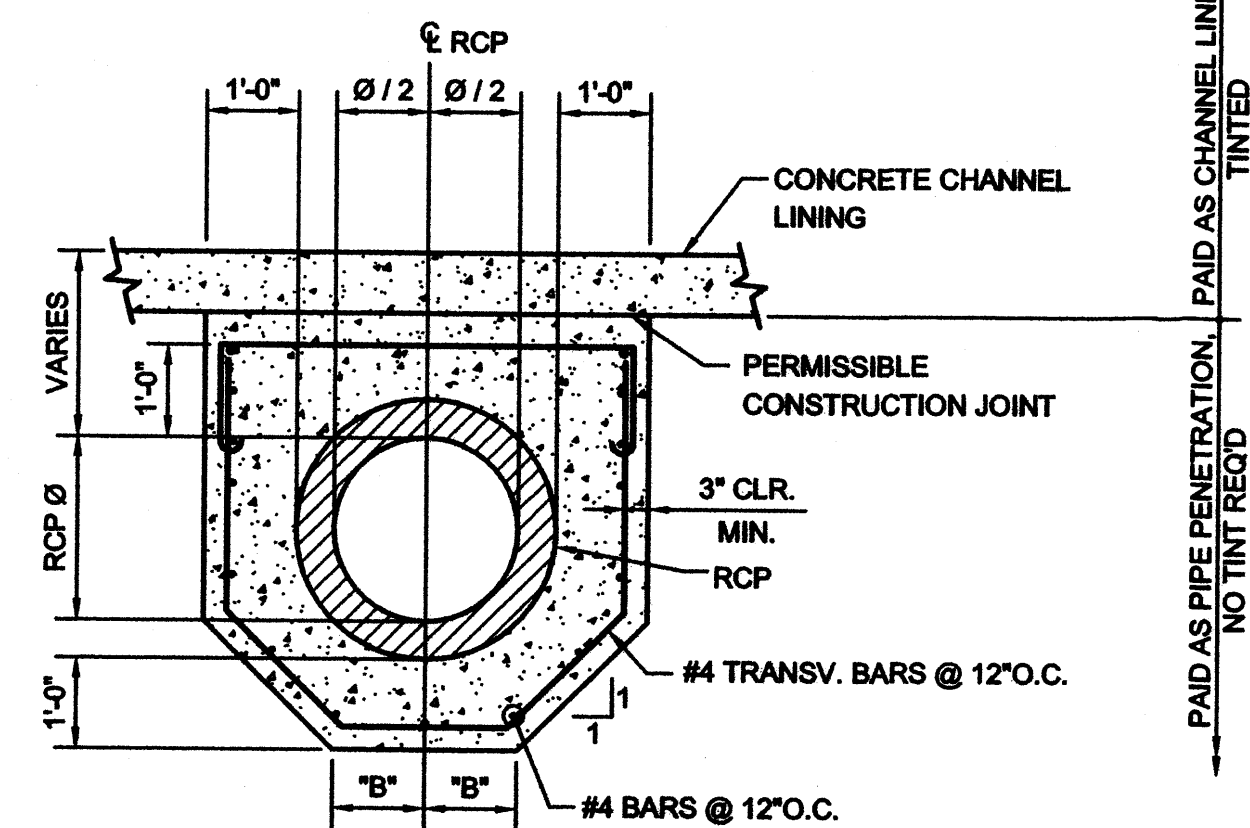
D
C
B
A



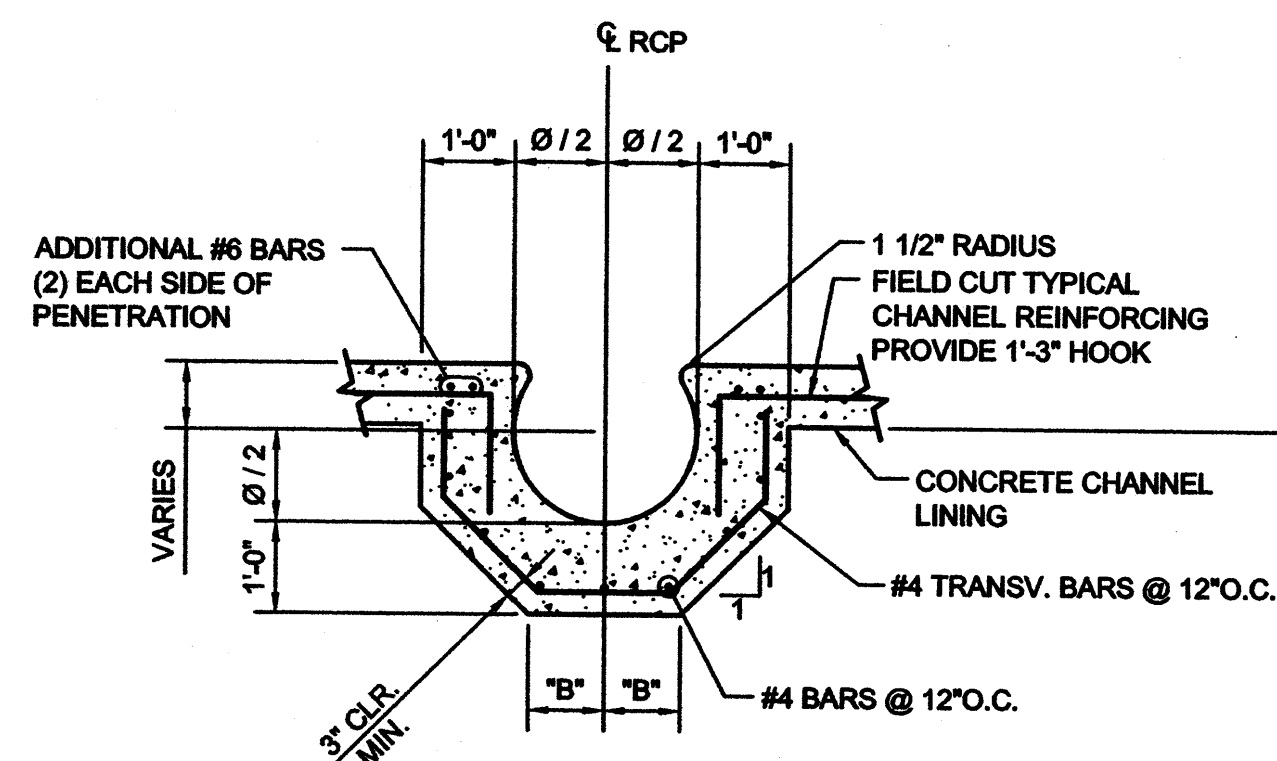
PIPE PENETRATION (PLAN VIEW)
NO SCALE



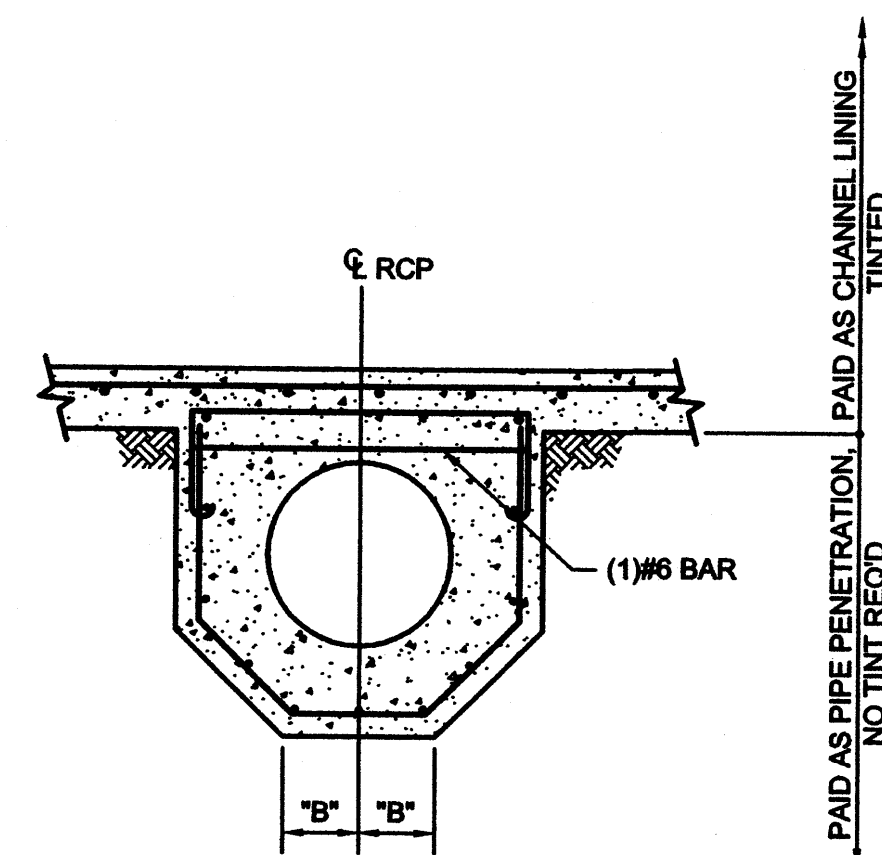
SECTION A-A
NO SCALE



SECTION C-C
NO SCALE

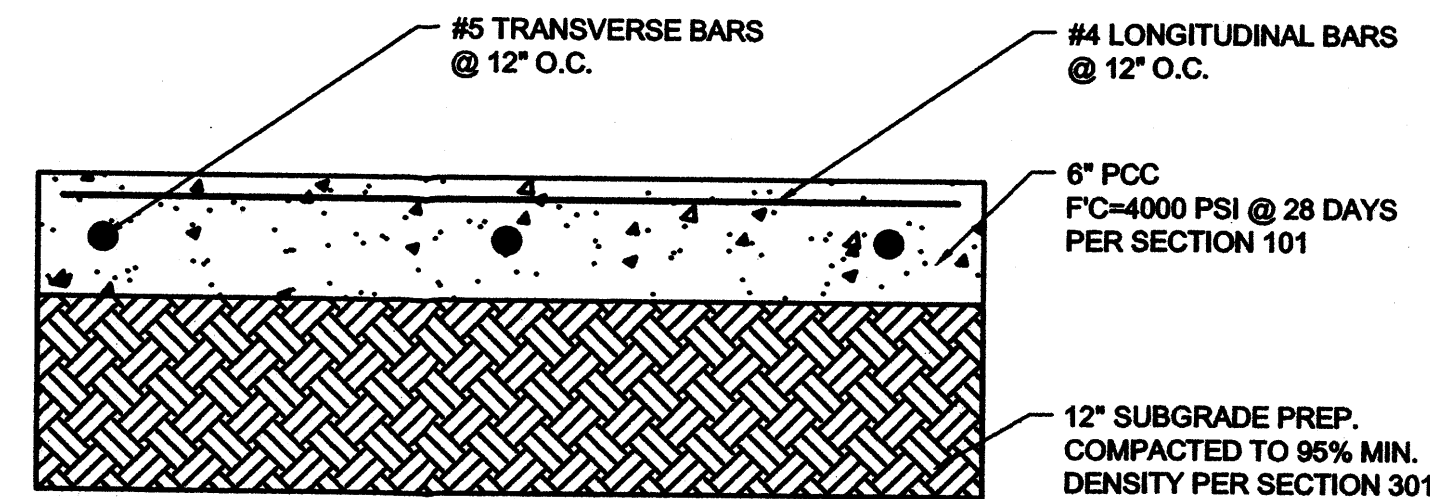


SECTION D-D
NO SCALE



SECTION E-E
NO SCALE

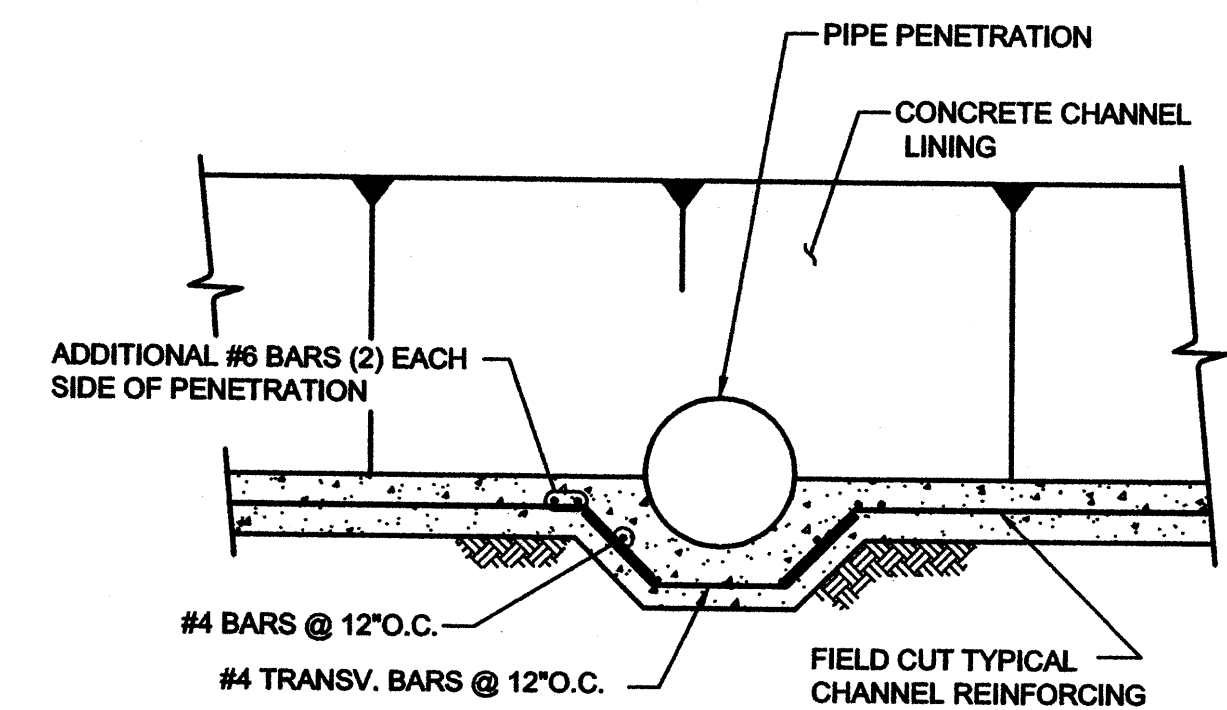
DIMENSION "B"							
PIPE DIAMETER (INCHES)							
24	30	36	42	48	54	60	72
10"	11"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-8"



CHANNEL LINING
NO SCALE

GENERAL NOTES:

1. THE PIPE PENETRATION DETAILED HEREIN SHALL BE PAID FOR LUMP SUM AND SHALL BE COMPENSATION FOR THE PENETRATION COMPLETE AND IN PLACE. INCLUDED IN THIS WORK (BUT NOT LIMITED TO) IS GRADING, SUBGRADE PREPARATION, REINFORCED CONCRETE, CONSTRUCTION JOINTS, CONCRETE PLACEMENT AND FINISHING. NOTE THE MEASUREMENT FOR 8" CHANNEL LINING IS CONTINUOUS AND UNINTERRUPTED AT THE PENETRATION LOCATION.
2. ALL CULVERT PIPE PLACED UNDER THE CHANNEL LINING OR WITHIN AMAFCA RIGHT-OF-WAY SHALL BE RCP CLASS III MIN.
3. FOR PIPE PENETRATIONS INTO EXISTING CHANNELS, USE CHANNEL REMOVAL DETAILS FROM AMAFCA STANDARD DRAWING 102.



SECTION F-F
NO SCALE

CONSULTANTS



PROJECT NAME
MATHESON PARK ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NM

MARK	DATE	DESCRIPTION

PROJECT NO:
10-600-028-00
DRAWN BY: JLL
CHECKED BY: TJA
SHEET TITLE

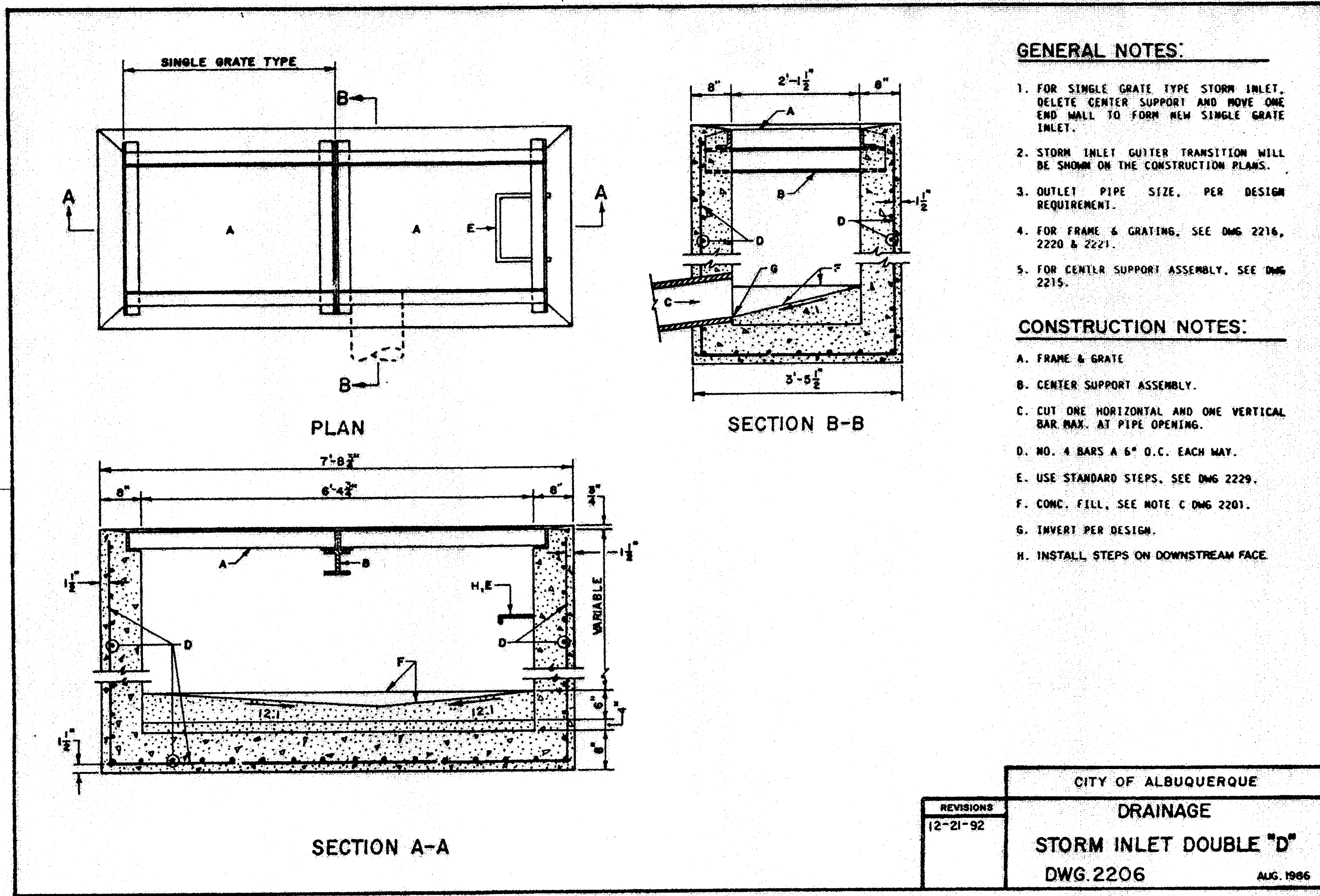
CHANNEL
PENETRATION
DETAILS

SHEET
C-503

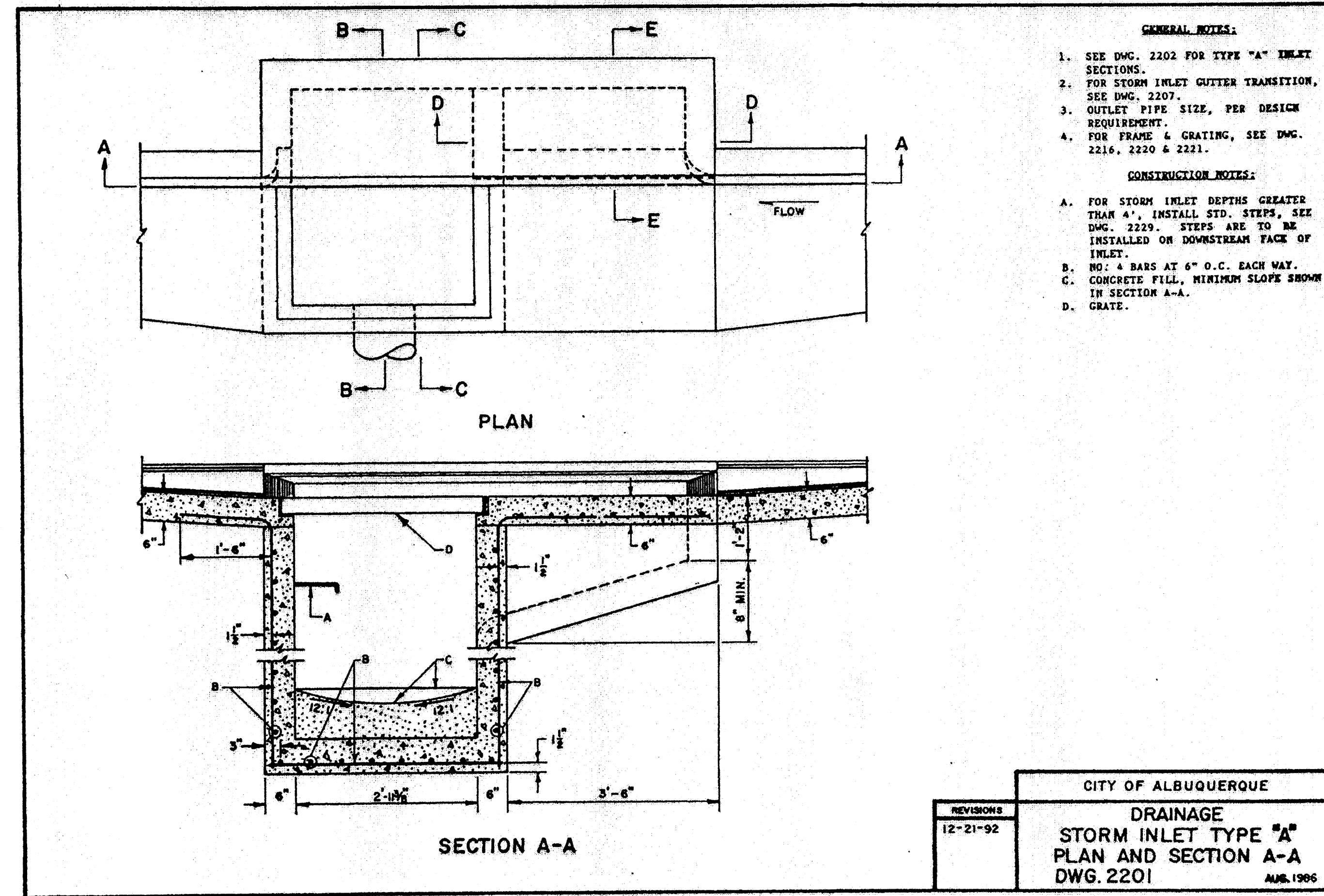


11/13

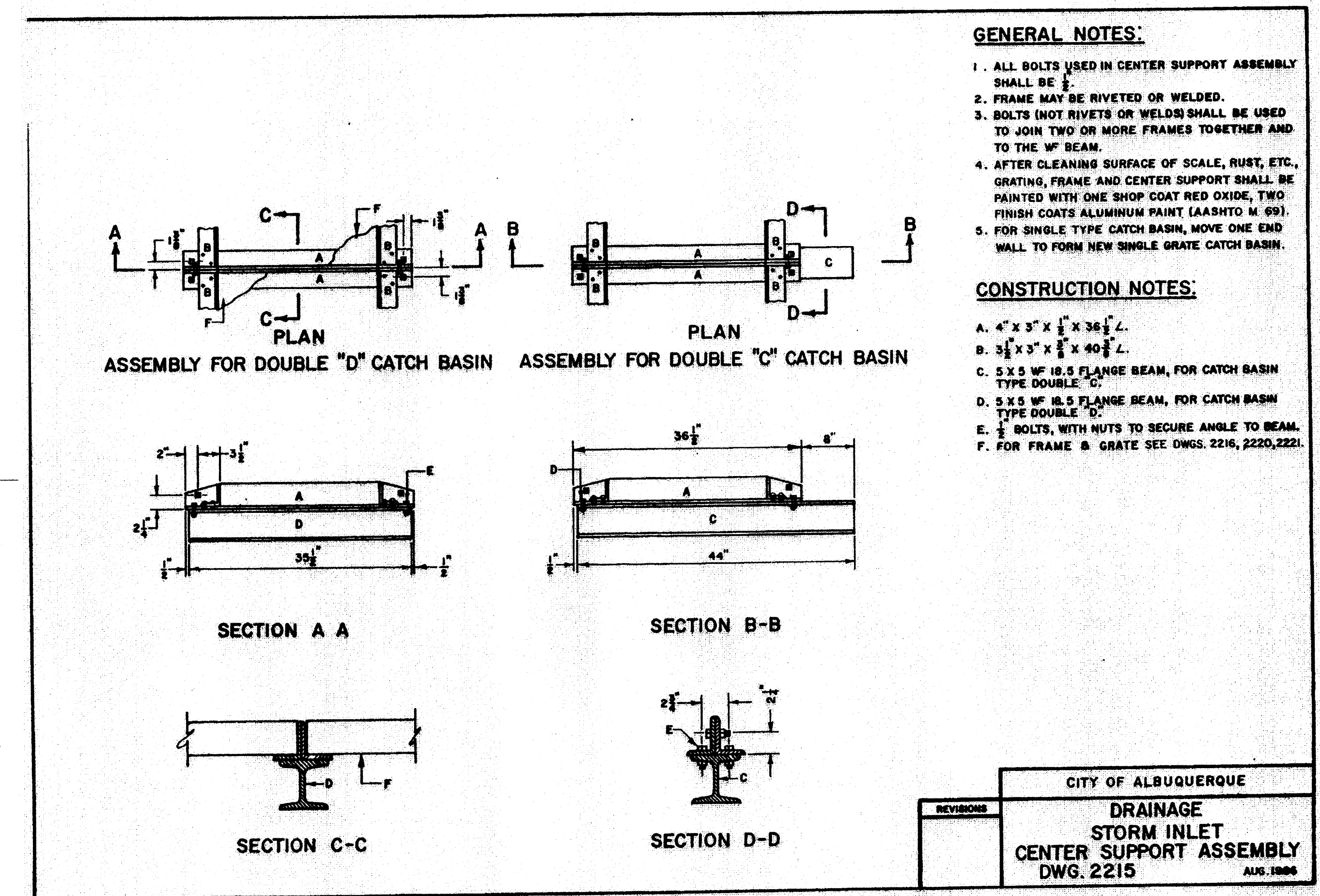
SD-19



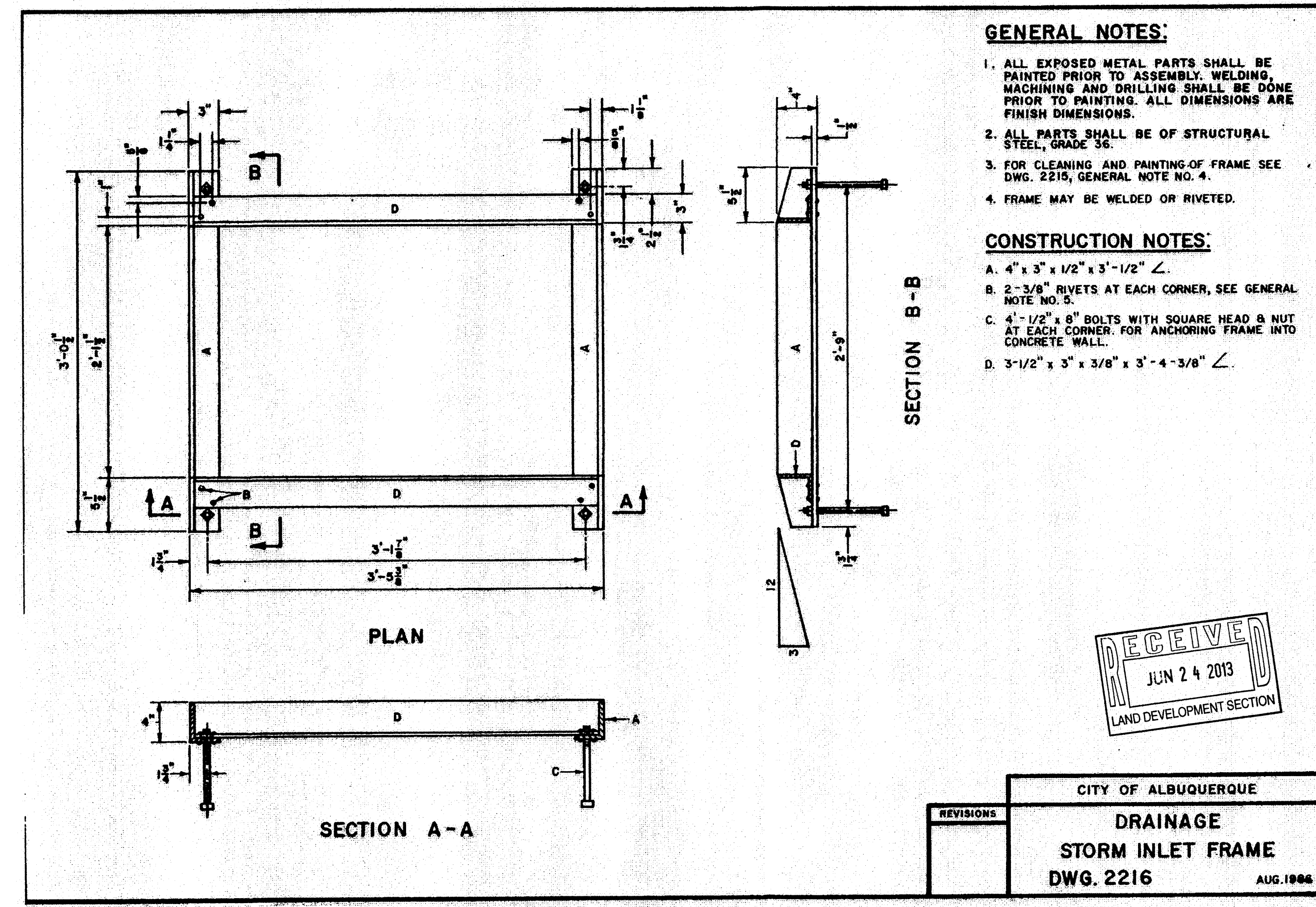
C1 STORM INLET DOUBLE "D" (COA STD DWG 2206)
 NTS



C3 STORM INLET TYPE "A" (COA STD DWG 2201)
 NTS



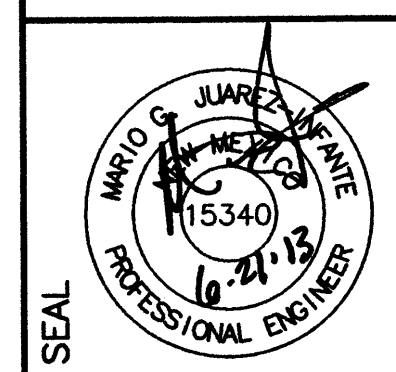
A1 STORM INLET CENTER SUPPORT ASSEMBLY (COA STD DWG 2215)
 NTS



A3 STORM INLET FRAME (COA STD DWG 2216)
 NTS

WILSON & COMPANY
 4900 Lang Avenue NE
 Albuquerque, NM 87109
 Phone: (505) 348-4000

CONSULTANTS



PROJECT NAME
 MATHESON PARK ELEMENTARY
 SITE IMPROVEMENTS
 ALBUQUERQUE, NM

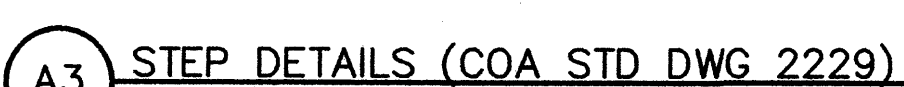
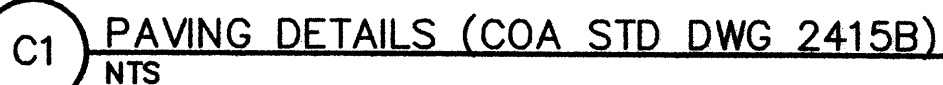
MARK	DATE	DESCRIPTION

PROJECT NO:
 10-600-028-00
 DRAWN BY: JLL
 CHECKED BY: TJA
 SHEET TITLE

STORM INLET DETAILS

SHEET
C-504

12/13



GENERAL CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCES MADE TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS REFER TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION WITH ALL UPDATES.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THESE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE PLANS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER IN A TIMELY MANNER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY, INCLUDING ENGINEERING DESIGN FEES.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR DESIRES TO REMOVE FENCING TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN PERMISSION BEFORE THE FENCE IS REMOVED. CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION AT THE EARLIEST OPPORTUNITY. WHILE ANY FENCING IS REMOVED, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS RESTORED.

WORK WITHIN ADJACENT RIGHT-OF-WAY

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAYS OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL ASSURE THAT ALL PERMITS AND PERMISSIONS REQUIRED HAVE BEEN OBTAINED IN WRITING.

SURVEY MONUMENTS, PROPERTY CORNERS, BENCHMARKS

THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST SEVEN DAYS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY THAT COULD DAMAGE OR DISPLACE SURVEY MONUMENTS, PROPERTY CORNERS, OR PROJECT BENCHMARKS SO THESE ITEMS MAY BE RELOCATED.

ANY SURVEY MONUMENTS, PROPERTY CORNERS, OR BENCHMARKS THAT ARE NOT IDENTIFIED FOR RELOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT. RELOCATION OR REPLACEMENT OF THESE ITEMS SHALL BE DONE BY THE OWNER'S SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

DIMENSIONS

ALL DIMENSIONS TO CURBS ARE TO THE FLOWLINE UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO THE CENTERLINE OF THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

ALL SLOPES AND GRADES ARE IN PERCENT UNLESS OTHERWISE NOTED.

CURB ELEVATIONS ARE SHOWN AT THE FLOW LINE UNLESS OTHERWISE NOTED. SEE THE DETAIL SHEET TO DETERMINE THE CURB HEIGHT ABOVE FLOW LINE.

SOILS

UNLESS OTHERWISE SPECIFIED, SUBGRADE, ENGINEERED FILL, AND STRUCTURAL FILL SHALL BE COMPACTED TO THE FOLLOWING SPECIFICATIONS OF THE ASTM D-1557 MAXIMUM DRY DENSITY.

MATERIAL / LOCATION	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95%
SUBBASE FOR SLAB SUPPORT	95%
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROADWAY PAVEMENT	95%
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90%
ROADWAY PAVEMENT SUBGRADE	95%
SIDEWALK SUBGRADE	90%
CURB AND GUTTER SUBGRADE	95%

PAVEMENT

WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, CUT EXISTING PAVEMENT EDGE TO A NEAT, STRAIGHT LINE AS NECESSARY TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVEMENT ELEVATION TO EXISTING.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE BEFORE PAVING.

WHEN SIDEWALK OR CURB AND GUTTER IS REMOVED, IT SHALL BE REMOVED TO EXISTING CONSTRUCTION JOINTS. CUTTING OR BREAKING SHALL NOT BE ALLOWED.

UTILITIES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1, THROUGH 14-8, NMSA 1978.

THE CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 1-800-321-2537 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.

THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

EXISTING VALVES SHALL ONLY BE OPERATED BY THE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF TWO WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.

THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE OWNER AND AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE THE INTERRUPTION.

THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET OF PLANS AND PROMPTLY LOCATE ALL UTILITIES, EXISTING OR NEW, IN THEIR CORRECT LOCATION, HORIZONTAL AND VERTICAL. THIS RECORD SET OF DRAWINGS SHALL BE MAINTAINED ON THE PROJECT SITE AND SHALL BE AVAILABLE TO THE OWNER AND ENGINEER AT ANY TIME DURING CONSTRUCTION.

EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PREPARE ANY DUST CONTROL OR EROSION CONTROL PERMITS REQUIRED FROM THE REGULATORY AGENCIES.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITH THE PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY BY CONSTRUCTION OF TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING THE SOIL TO PREVENT IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC., SHALL BE APPROPRIATELY DISPOSED OF OFFSET AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO EMERGENCY RESPONSE AT 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.

ACCESSIBLE FACILITIES

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE FIRM, SLIDE RESISTANT AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

TRAFFIC CONTROL

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

LOCATION & DESCRIPTION

THE PROPOSED DEVELOPMENT IS THE REMOVAL OF 9 PORTABLE BUILDINGS WITH ASSOCIATED SIDEWALKS TO BE REPLACED WITH A 13,900 SQUARE FOOT CLASSROOM BUILDING WITH SIDEWALK AND PATIO AREAS ON THE EXISTING MATHESON PARK ELEMENTARY SCHOOL SITE ON THE WEST SIDE OF JANE STREET NE AND JUST SOUTH OF CANDELARIA AVENUE NE.

HYDROLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR, 6-HR DURATION STORM EVENT WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THE SITE LIES WITHIN THE ZONE 4 PRECIPITATION AREA FOR THE CITY OF ALBUQUERQUE, AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. THEREFORE, TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE EXCESS PRECIPITATION AND PEAK DISCHARGE.

EXISTING DRAINAGE

THE SITE IS BOUNDED JANE STREET ON THE EAST, RESIDENTIAL AREAS ON THE NORTH AND SOUTH AND THE EMBUDITO ARROYO ON THE WEST. THERE IS NO IMPACT ON THE SITE FROM ADJACENT SITES.

THE EXISTING CONSTRUCTION AREA SHEET FLOWS TO THE WEST AND NORTH VIA SHEET FLOW UNTIL THE RUNOFF DRAINS OVER THE CURB INTO THE PARKING LOT NORTH OF THE CONSTRUCTION SITE WHERE IT IS INTERCEPTED BY AN EXISTING 36" STORM DRAIN THAT DISCHARGES DIRECTLY INTO THE EMBUDITO ARROYO DUE WEST OF THE CONSTRUCTION SITE.

DEVELOPED CONDITION

THE EXISTING SITE IS APPROXIMATELY 12 ACRES OF LAND DEVELOPED AS A SCHOOL AND PARK SITE. THE PROPOSED CONSTRUCTION AREA IS 0.42 ACRES NEAR THE NORTHEAST CORNER OF SITE.

THE PROPOSED BUILDING RUNS FROM THE EXISTING PARKING LOT ON THE NORTH TO AN EXISTING SIDEWALK ON THE SOUTH AND PARALLELS THE EXISTING SITE SLOPE SUCH THAT RUNOFF IN THE LONG NARROW LANDSCAPED AREA EAST OF THE BUILDING AND WEST OF THE PROPERTY LINE IS TRAPPED. THIS PLAN PROPOSES TO INSTALL AN INLET CONNECTED TO THE EXISTING 36" STORM DRAIN IN THE NORTH PARKING LOT TO DRAIN THIS TRAPPED AREA. RUNOFF IS CHANNIELED TO THE INLET VIA A CONCRETE VALLEY GUTTER. RUNOFF FROM THE BUILDING WILL FOLLOW THE EXISTING DRAINAGE PATTERN TOWARD THE NORTHWEST INTO THE PARKING LOT AND STORM DRAIN VIA OVERLAND FLOW.

THE PLAN SET PROPOSES A BASE BID 8 CLASSROOM BUILDING, A 9 CLASSROOM ALTERNATE 1 AND A 10 CLASSROOM ALTERNATE 2 AS SHOWN ON SHEET C1.1 OF THIS SUBMITTAL. THIS ANALYSIS IS BASED ON ALTERNATE 2 SINCE IT PROVIDES THE MOST IMPERVIOUS AREA. ALSO THE ANALYSIS IS BASED ONLY ON THE CONSTRUCTION AREA SINCE THE OVERALL SITE HAS SEVERAL DISCHARGE POINTS TO THE EMBUDITO ARROYO AND ALSO BECAUSE THE PROJECT WILL ONLY MODIFY A VERY SMALL PORTION OF THE SITE THAT CURRENTLY DISCHARGES DIRECTLY TO THE ARROYO.

IF ALTERNATE 2 IS SELECTED FOR CONSTRUCTION, THE RUNOFF FROM THE PROJECT SITE WILL INCREASE 2.13 CFS TO 2.24 CFS OR 5.2% OF THE EXISTING RUNOFF. IF THE BASE BID OR ALTERNATE 1 IS SELECTED FOR CONSTRUCTION, THE OVERALL INCREASE IN RUNOFF WILL BE REDUCED. SINCE THIS SMALL INCREASE WILL NOT HAVE A MAJOR IMPACT ON THE OVERALL RUNOFF FROM THE SITE, WE HAVE NOT GONE INTO MORE IN DEPTH DRAINAGE ANALYSES. ALSO THE HYDRAULIC GRADE LINE IN THE EXISTING 36" STORM DRAIN WILL NOT BE AFFECTED AND WILL BE WELL BELOW THE PROPOSED INLET SINCE THE FLOW WOULD EXIT THE EXISTING INLETS IN THE PARKING LOT AND CANNOT REACH THE PROPOSED BUILDING.

$$E_{exist} = \frac{1.46(.1073) + 2.64(.3287)}{.1073 + .3287} = 2.35$$

$$E_{prop} = \frac{1.46(.0336) + 2.64(.4024)}{.0336 + .4024} = 2.55$$

$$Q_{exist} = 0 + 0 + 3.73(.1073) + 5.25(.3287) = 2.13$$

$$Q_{prop} = 0 + 0 + 3.73(.0336) + 5.25(.4024) = 2.24$$

100-YEAR HYDROLOGIC CALCULATIONS

100-YEAR HYDROLOGIC CALCULATIONS												
$E \text{ factor} = 0.8 \quad 1.08 \quad 1.46 \quad 2.64$												
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION					
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V (10 day) (acre-ft)	V (10 day) (cu-ft)	Q (cfs)	
EXISTING CONDITIONS												
ON-SITE	0.4360	0.00	0.00	24.60	75.40	2.35	0.09	3,719	0.17	7,359	2.13	
TOTAL RUNOFF	0.44			1.073	3287		0.09	3719	0.17	7359	2.13	
PROPOSED CONDITIONS												
ON-SITE	0.4360	0.00	0.00	7.70	92.30	2.55	0.09	4,034	0.19	8,490	2.24	
TOTAL RUNOFF	0.44			0.036	4024		0.09	4034	0.19	8490	2.24	
EXCESS PRECIP.		0.8	1.08	1.46	2.64	E (in)						
PEAK DISCHARGE		2.2	2.92	3.73	5.25	Q _a (cfs)						
$Q \text{ factor} = 2.20 \quad 2.92 \quad 3.73 \quad 5.25$												
WEIGHTED E (in) = (E _a)(%A) + (E _b)(%B) + (E _c)(%C) + (E _d)(%D)							ZONE = 4					
$V_{6\text{-hr}}$ (acre-ft) = (WEIGHTED E)(AREA)/12							$P_{6\text{-hr}}$ (in) = 2.90					
$V_{10\text{-day}}$ (acre-ft) = $V_{6\text{-hr}}$ + (A _d)(P _{10day} - P _{6hr})/12							$P_{24\text{-hr}}$ (in) = 3.65					
$Q \text{ (cfs)} = (Q_a)(A_a) + (Q_b)(A_b) + (Q_c)(A_c) + (Q_d)(A_d)$							$P_{10\text{-day}}$ (in) = 5.95					

ABBREVIATIONS

AD = AREA DRAIN

BLDG = BUILDING

BM = BENCHMARK

CATV = CABLE TELEVISION LINE

CIP = CAST IRON PIPE

CMP = CORRUGATED METAL PIPE

CMPA = CORRUGATED METAL PIPE ARCH

CO = CLEANOUT

COA = CITY OF ALBUQUERQUE

CONC = CONCRETE

CL = CENTERLINE

DIA = DIAMETER

DIP = DUCTILE IRON PIPE

DTL = DETAIL

DWG = DRAWING

E = ELECTRIC LINE

ELEC. = ELECTRIC

ELEV = ELEVATION

EX = EXISTING

FF = FINISHED FLOOR ELEVATION

FG = FINISHED GRADE

FH = FIRE HYDRANT

FL = FLOW LINE

G = GAS PIPE

GM = GAS METER

GV = GATE VALVE

HI PT = HIGH POINT

INV = INVERT ELEVATION

LF = LINEAL FEET

LP = LIGHT POLE

L/S = LANDSCAPING

MH = MANHOLE

NG = NATURAL GROUND

OE = OVERHEAD ELECTRIC LINE

OT = OVERHEAD TELEPHONE LINE

PB = ELECTRICAL PULL BOX

PCC = PORTLAND CEMENT CONCRETE

PP = POWER POLE

PROP = PROPOSED

PVC = POLYVINYL CHLORIDE PIPE

RCP = REINFORCED CONCRETE PIPE

RD = ROOF DRAIN

R/W = RIGHT-OF-WAY

S = SLOPE

SAS = SANITARY SEWER

SD = STORM DRAIN

STA = STATION

STD = STANDARD

SW = SIDEWALK

T = TELEPHONE

TA = TOP OF ASPHALT PAVEMENT

TAC = TOP OF ASPHALT CURB

TC = TOP OF CONCRETE SLAB (PAVEMENT)

TCC = TOP OF CONCRETE CURB

TG = TOP OF GRATE

TS = TOP OF SIDEWALK

TW = TOP OF WALL

TYP = TYPICAL

TB = TELEPHONE BOX

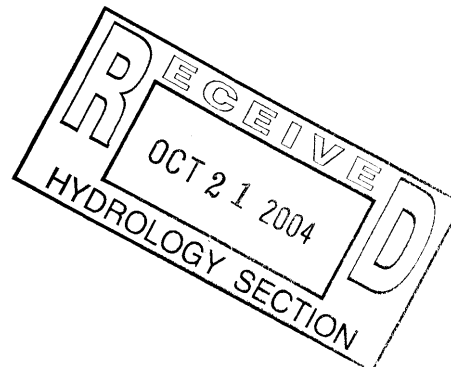
UE = UNDERGROUND ELECTRIC

UT = UNDERGROUND TELEPHONE

W = WATER

WM = WATER METER

WV = WATER VALVE



ISSUES & REVISIONS			
REV. #	DATE	DESCRIPTION	CHECK

PROJECT

ALBUQUERQUE PUBLIC SCHOOLS

Matheson Park Elementary School

Classroom Addition

100% Construction Documents

10809 Lexington Av.

Albuquerque NM, 87112

SCALE

NONE

RMS# PROJECT NO.

0307

DRAWING FILE NO.

0207A-W GEN NOTES

DATE

July, 2004

PROJECT MANAGER

RAMON SARASON

DRAWN BY

LDR

I, Larry D. Read, NMPE 10998, of the firm Larry Read & Associates, Inc., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 10/10/2004. The record information edited onto the original design document has been obtained by Jeff Mortenson and Associates (Charles Cola, NMPS). I further certify that I have personally visited the project site on 02/21/2006 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the Grading and Drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.



A. REFER TO CIVIL GENERAL NOTES SHEET CQ.1.
B. UNLESS OTHERWISE NOTED, ALL EXISTING WATER, SEWER, GAS, AND ELECTRIC LINES WITHIN 10-FOOT OF THE CONSTRUCTION SITE SHALL BE LOCATED, CAPPED, AND REMOVED BY THE CONTRACTOR BEFORE NEW CONSTRUCTION BEGINS. CONTRACTOR SHALL COORDINATE WITH MAINTENANCE AND OPERATIONS TO HELP LOCATE UTILITIES AND PROVIDE UTILITY LOCATION SERVICES TO LOCATE UTILITIES.
C. ALL UTILITY BOXES, VALVE BOXES, MANHOLE LIDS, SPRINKLER UNLESS OTHERWISE NOTED, ALL EXISTING WATER, SEWER, GAS, AND ELECTRIC LINES WITHIN 10-FOOT OF THE CONSTRUCTION SITE SHALL BE LOCATED, CAPPED, AND REMOVED BY THE CONTRACTOR BEFORE NEW CONSTRUCTION BEGINS. CONTRACTOR SHALL COORDINATE WITH MAINTENANCE AND OPERATIONS TO HELP LOCATE UTILITIES AND PROVIDE UTILITY LOCATION SERVICES TO LOCATE UTILITIES.

1. NEW 6" DIA. TYPE 'C' MANHOLE FOR COA STD DMC, 2101 OVER 36" ROP STORM DRAIN, RIM ELEV. 77.85 (MATCH EXIST SIDEWALK) EXIST INV (36") 72.43, NEW STORM INV (18") 72.63.
2. NEW 10' -LF CLASS III ROP STORM DRAIN.
3. NEW TYPE 'T' STORM INLET PER DCA STD DMC 2206, WITH 10' X 14" CONCRETE APRON PER DETAIL 1/C3.1. TO ELEV 78.13, NEW INLET 73.20
4. NEW 3' WIDE CONCRETE VALLEY GUTTER PER DETAIL 6/C3.1. S = 0.58%
5. EXISTING CONCRETE SIDEWALK AND CURB SHALL BE REPLACED TO MATCH EXISTING LINE, GRADE, AND CONFIGURATION AFTER MANHOLE COMPLETE.
6. NEW CONCRETE SIDEWALK PER DETAIL 1/C3.1 OR 6/C3.1 IF EDGE.
7. NEW CONCRETE SIDEWALK PER DETAIL 6/C3.1.
8. STAIRS SEE ARCHITECTURAL PLAN FOR DETAILS.
9. MATCH EXISTING SIDEWALK.
10. NEW WALL - SEE ARCHITECTURAL DETAILS.



THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN ANY
DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE
MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY,
NEW MEXICO, COMMUNITY-PANEL NO. 35001C0357E;
EFFECTIVE DATE NOVEMBER 19, 2003.

STATION IS AN ACS 3 1/4" ALUMINUM CAP SET FLUSH IN THE TOP OF CURB STAMPED "11-H21, 1989". STATION IS LOCATED ON THE NORTH SIDE OF A MEDIAN BETWEEN MEAUL BLVD. AND FRONTAGE ROAD APPROXIMATELY 29.1 FEET WEST OF THE CENTERLINE OF JANE ST. NE.
ELEVATION = 5566.888 FEET (NGVD 1929)

A CHISELED SQUARE ' ', LOCATED ON THE WEST SIDE OF JANE STREET NE AND EAST OF THE EXISTING PORTABLE CLASSROOM BUILDINGS AS SHOWN ON THE DRAWING.
ELEVATION = 5578.79 FEET

SHEET TITLE
SITE GRADING AND DRAINAGE

C1.1 **RECEIVED**
MAR - 1 2006
HYDROLOGY SECTION



DRAINAGE REPORT

Site Location: Matheson Park Elementary is located at 10809 Lexington Ave., N.E. in Albuquerque, NM. It is bounded by Dorothy St. on the west and Jane St. on the east.

Methodology: Section 22.2 Part A of the City of Albuquerque DPM was followed to calculate the peak rate of discharge and volume of runoff. The 100-year frequency 24-hour rainfall volume was used as the design storm. The site is located in Zone 4.

Existing Conditions: The site is developed as an elementary school site with slopes decreasing from north to south. The total area of the property is approximately 7.0 acres. The property is divided into three basins. Basin B drains to the existing concrete lined channel through an existing detention pond. Basins A and C drain into the channel through the property's storm drain system. NOTE: The drainage plan does not show entire site. Basin B actually extends south of Basin C.

EXISTING CONDITIONS

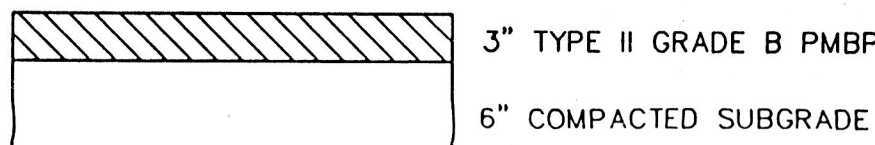
Basin	Area	Treatment				V ₁₄₄₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
A	0.593	0.00	1.35	0.00	98.65	0.166	3.09
B	4.290	6.90	4.38	42.42	46.29	0.819	18.42
C	2.115	Not affected by proposed conditions.					

Proposed Conditions: Proposed improvements to the site include the addition of an asphalt paved parking lot which will discharge to a proposed storm inlet. Increases in runoff and flow resulting from the additional paving will be taken from Basin B and added to Basin A drainage. Basin C remains unaffected under the developed conditions.

PROPOSED ADDITIONAL CONDITIONS

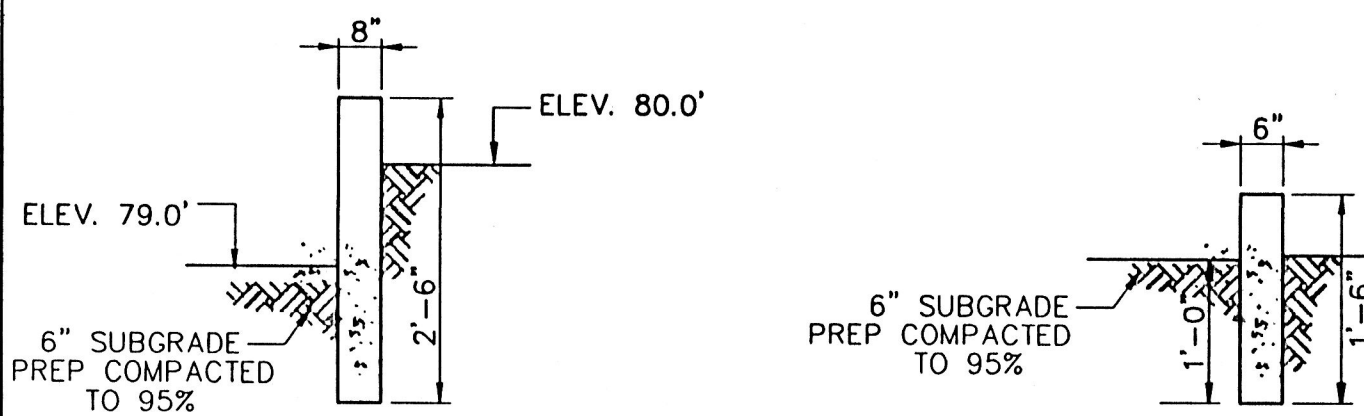
Basin	Area	Treatment				V ₁₄₄₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
A	0.946	0.00	0.85	0.00	99.15	0.266	4.95
B	3.937	7.52	4.78	37.26	50.44	0.776	17.10

Conclusions: Runoff and flow rate increased as a result of changes in land treatment areas for Basin A. Runoff has increased by 0.01 ac-ft and peak flow rate has increased by 1.86 cfs. The existing storm drain system has adequate capacity to handle the developed flows.



TYPICAL ASPHALT CONCRETE PAVEMENT SECTION

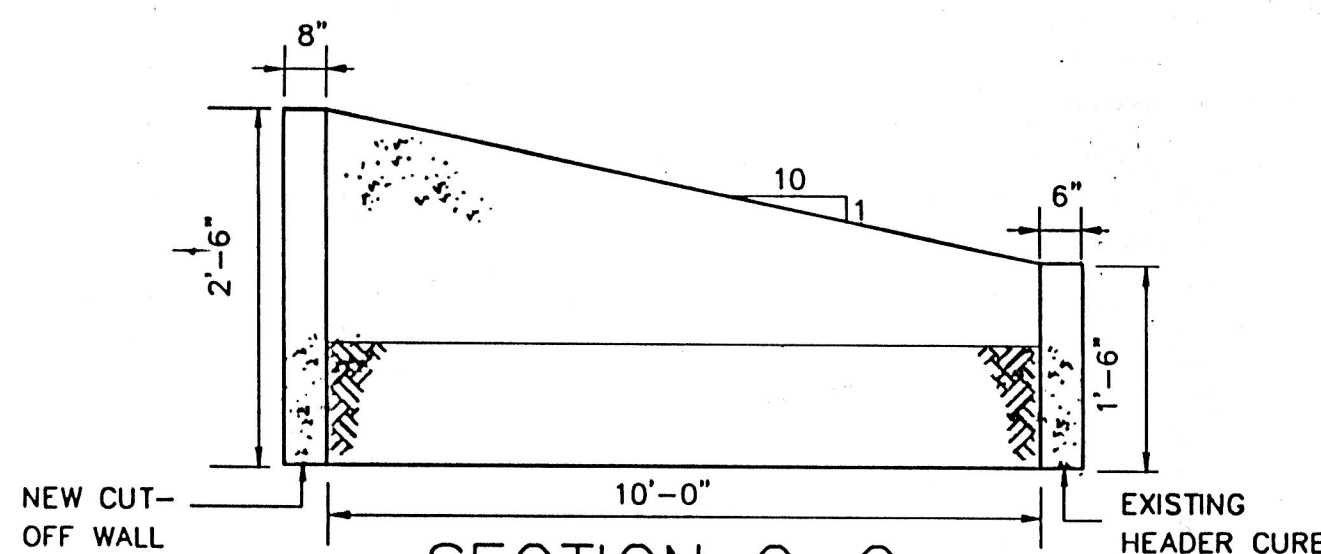
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SECTION A-A CUT-OFF WALL DETAIL SECTION B-B HEADER CURB DETAIL

NTS

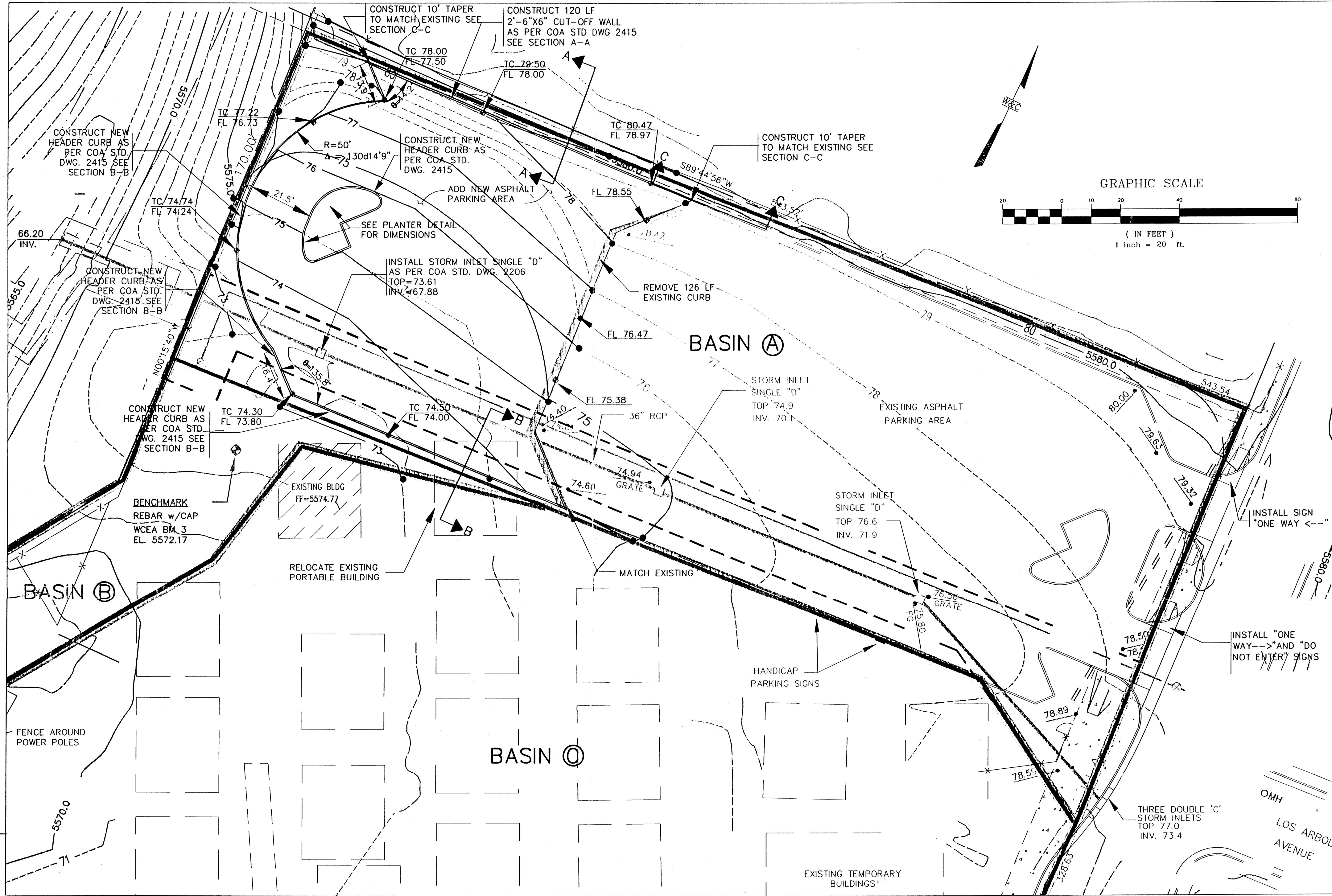
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SECTION C-C TAPER DETAIL

NTS

NOTE: TAPER 8"-WIDTH OF CUT-OFF WALL TO MATCH WIDTH OF EXISTING HEADER CURB



LEGEND

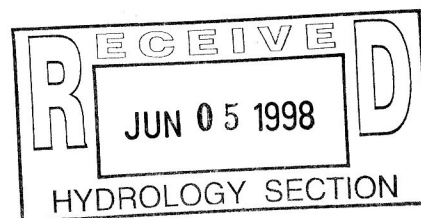
- 5539 EXISTING INTERMEDIATE CONTOUR
- 5540 EXISTING INDEX CONTOUR
- 5539 PROPOSED INTERMEDIATE CONTOUR
- 5540 PROPOSED INDEX CONTOUR
- 83.00 EXISTING SPOT ELEVATION
- 79.00 PROPOSED SPOT ELEVATION
- BASIN (B) BASIN DESIGNATION
- EXISTING BASIN BOUNDARY
- PROPOSED BASIN BOUNDARY
- EXISTING FLOWLINE
- PROPOSED FLOWLINE

LEGAL DESCRIPTION

SOUTHERLY PORTION OF BLOCK 75 SNOW HEIGHTS SUBDIVISION. FILED ON NOVEMBER 4, 1953 VOL. D-1 FOLIO 105 AT THE OFFICE OF THE BERNALILLO COUNTY CLERK

T.B.M.

BENCHMARK-ALBUQUERQUE 3-G21- A SQUARE "□" CHISELED ON TOP OF CONCRETE CURB AT ESE CURB RETURN AT INTERSECTION OF CANDELARIA RD. AND DOROTHY ST. NE ELEVATION = 5580.327 FEET (M.S.L.D.) 1929



MATHESON PARK ELEMENTARY SCHOOL
10809 LEXINGTON AVE NE
PARKING LOT ADDITION

GRADING & DRAINAGE PLAN

DESIGN TJG
DRAWN TJG



WILSON & COMPANY
4775 INDIAN SCHOOL ROAD N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87110
(505) 254-4000

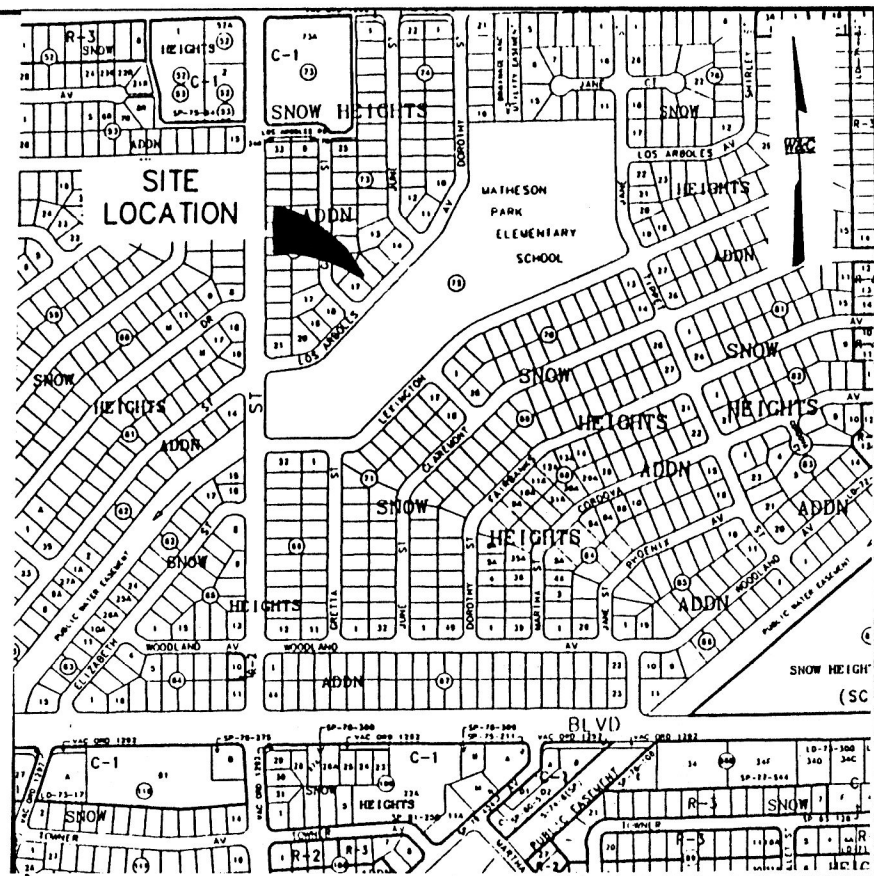
DATE
MAY 1998

FILE NO.

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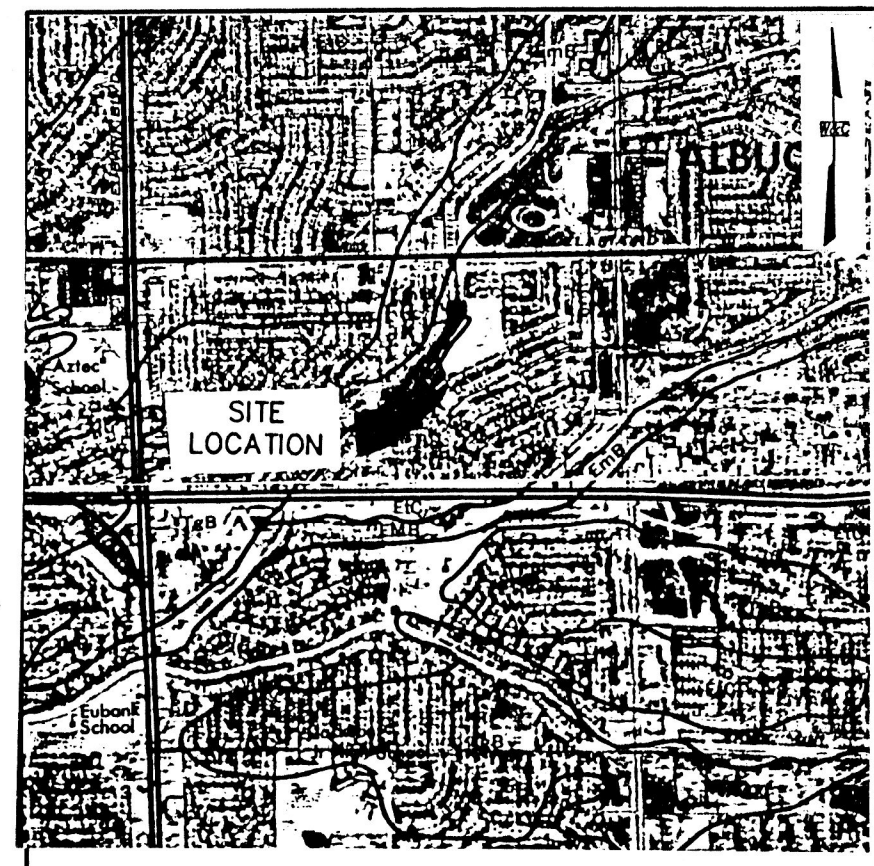
SHEET NO.

1 OF 1



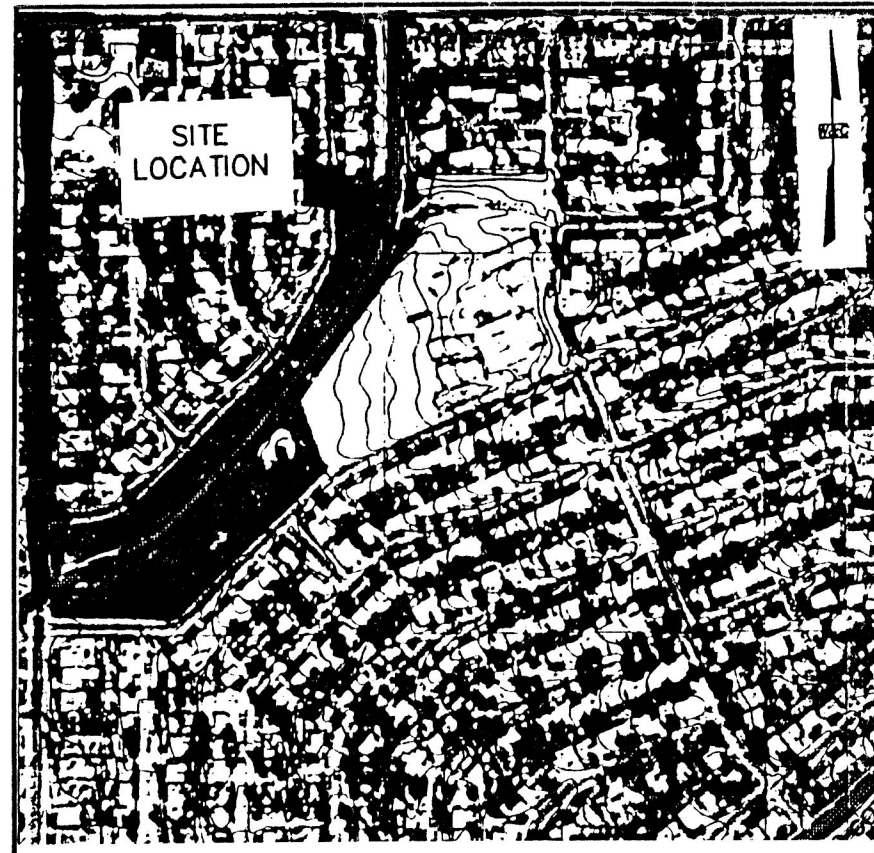
LOCATION MAP

ZONE ATLAS MAP NO. H-21-Z



SOILS MAP

REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 22



FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY PANEL 25

STAKING NOTE

INFORMATION SHOWN IS FOR THE GRADING AND DRAINAGE PLAN ONLY, AND NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

TOPOGRAPHY NOTE

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WHEELCHAIR RAMP NOTES

1. MINIMUM RAMP CLEAR WIDTH SHALL BE 36".
2. MINIMUM LANDING LENGTH ON EITHER END OF RAMP SHALL BE 60".
3. MAXIMUM RAMP SLOPE SHALL BE 1:12.
4. MAXIMUM FLARED SIDE SLOPE SHALL BE 1:10.
5. SURFACE TEXTURE OF WHEELCHAIR RAMP SHALL BE OBTAINED BY HEAVY BROOMING (TEXTURE DEPTH 0.035 INCHES) TRANSVERSE TO SLOPE OF THE RAMP.

SANDBOX NOTES

1. CONSTRUCT FLUSH CURB FOR FLUSH PERIMETER
2. CONSTRUCT 8" WIDE HEADER CURB OR STANDUP CURB FOR 0 - 6" HIGH PERIMETER
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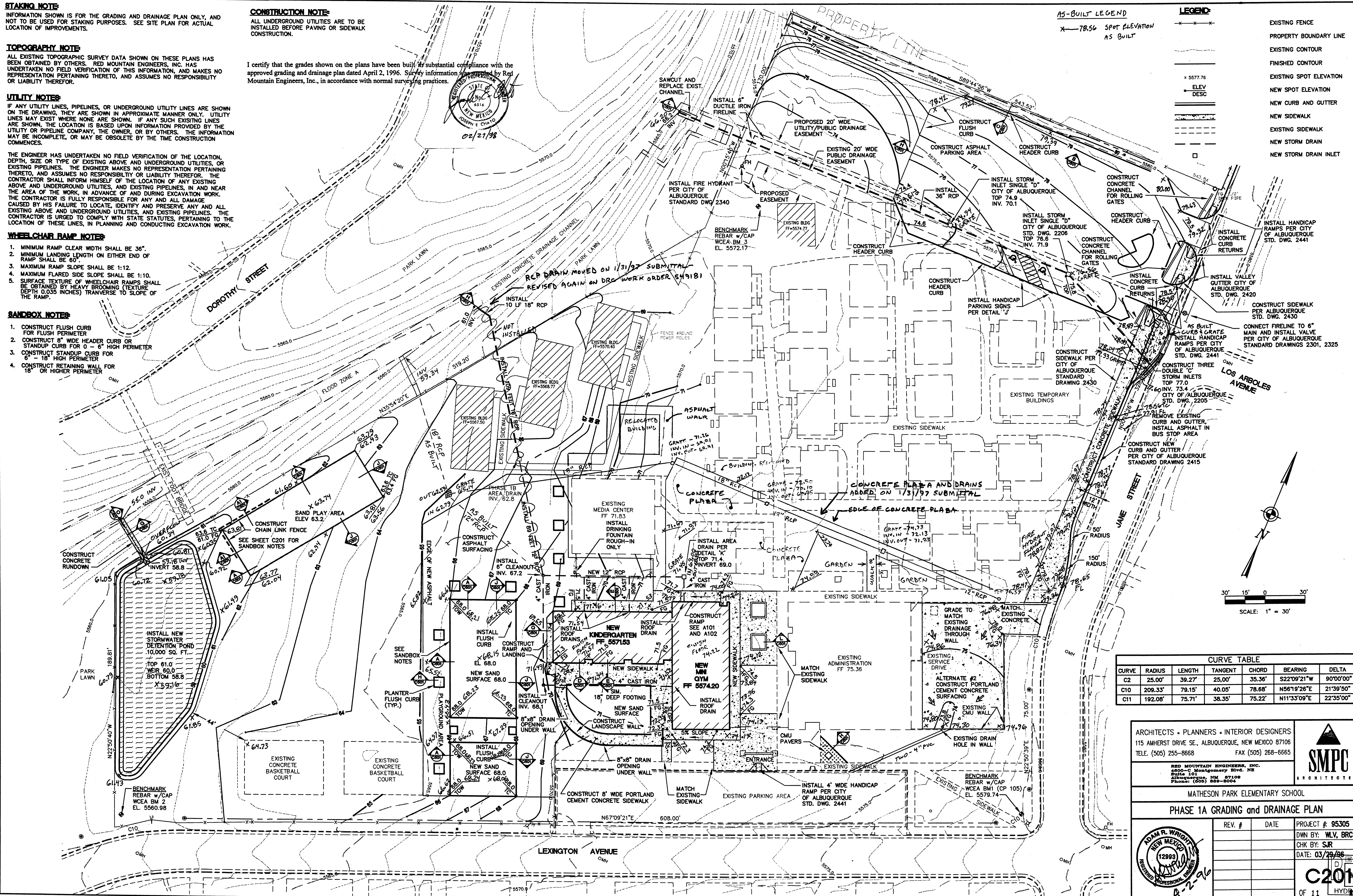
I certify that the grades shown on the plans have been built in substantial compliance with the approved grading and drainage plan dated April 2, 1996. Survey information was provided by Red Mountain Engineers, Inc., in accordance with normal surveying practices.

AS-BUILT LEGEND

X-78.56 SPOT ELEVATION
AS BUILT

LEGEND

- EXISTING FENCE
- PROPERTY BOUNDARY LINE
- EXISTING CONTOUR
- FINISHED CONTOUR
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- NEW CURB AND GUTTER
- NEW SIDEWALK
- EXISTING SIDEWALK
- NEW STORM DRAIN
- NEW STORM DRAIN INLET



CURVE TABLE						
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ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
115 AMHERST DRIVE SE., ALBUQUERQUE, NEW MEXICO 87106
TELE (505) 255-8668 FAX (505) 268-6665

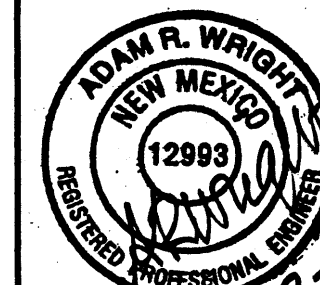


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4600-C Montgomery Blvd. NE
Albuquerque, NM 87109
Phone: (505) 886-8004

MATHESON PARK ELEMENTARY SCHOOL

PHASE 1A GRADING and DRAINAGE PLAN

REV. #	DATE	PROJECT # 95305
1	03/24/96	DWN BY: WLV, BRC
2	03/24/96	CHK BY: SJR
3	03/24/96	DATE: 03/24/96
4	03/24/96	DATE: 03/24/96
5	03/24/96	DATE: 03/24/96
6	03/24/96	DATE: 03/24/96
7	03/24/96	DATE: 03/24/96
8	03/24/96	DATE: 03/24/96
9	03/24/96	DATE: 03/24/96
10	03/24/96	DATE: 03/24/96



C201
OF 11
HYDROLOGY SECTION

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- NEW SPOT ELEVATION
- NEW CURB AND GUTTER
- NEW SIDEWALK
- EXISTING SIDEWALK
- NEW STORM DRAIN
- NEW STORM DRAIN INLET

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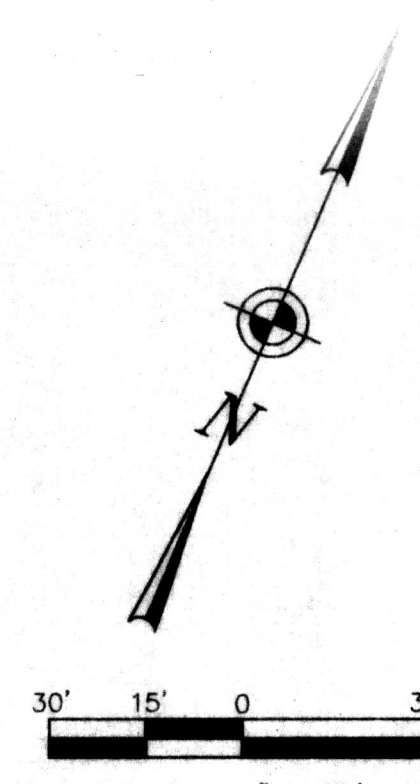
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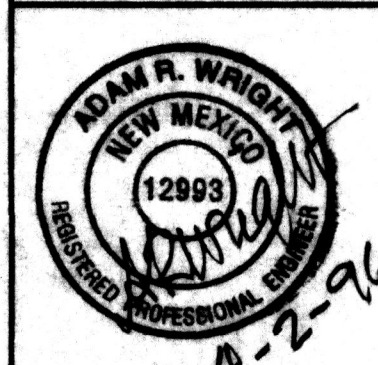
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MATHESON PARK ELEMENTARY SCHOOL

PHASE 1A GRADING and DRAINAGE PLAN



REV. #	DATE	PROJECT #
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		DWN BY: WLV, BRC
		CHK BY: SJR
		DATE: 03/29/96
		C201

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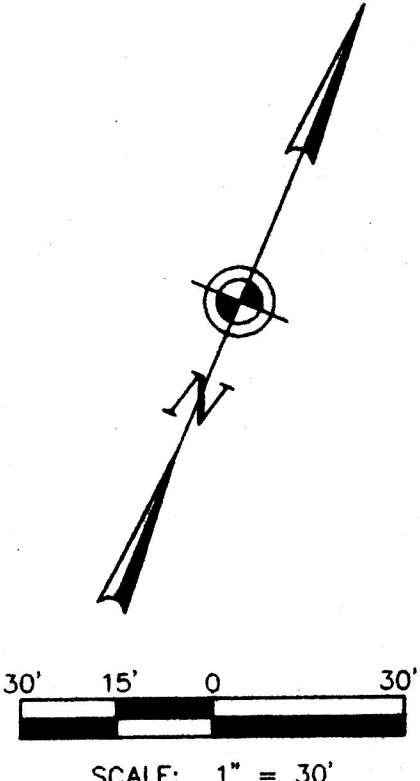
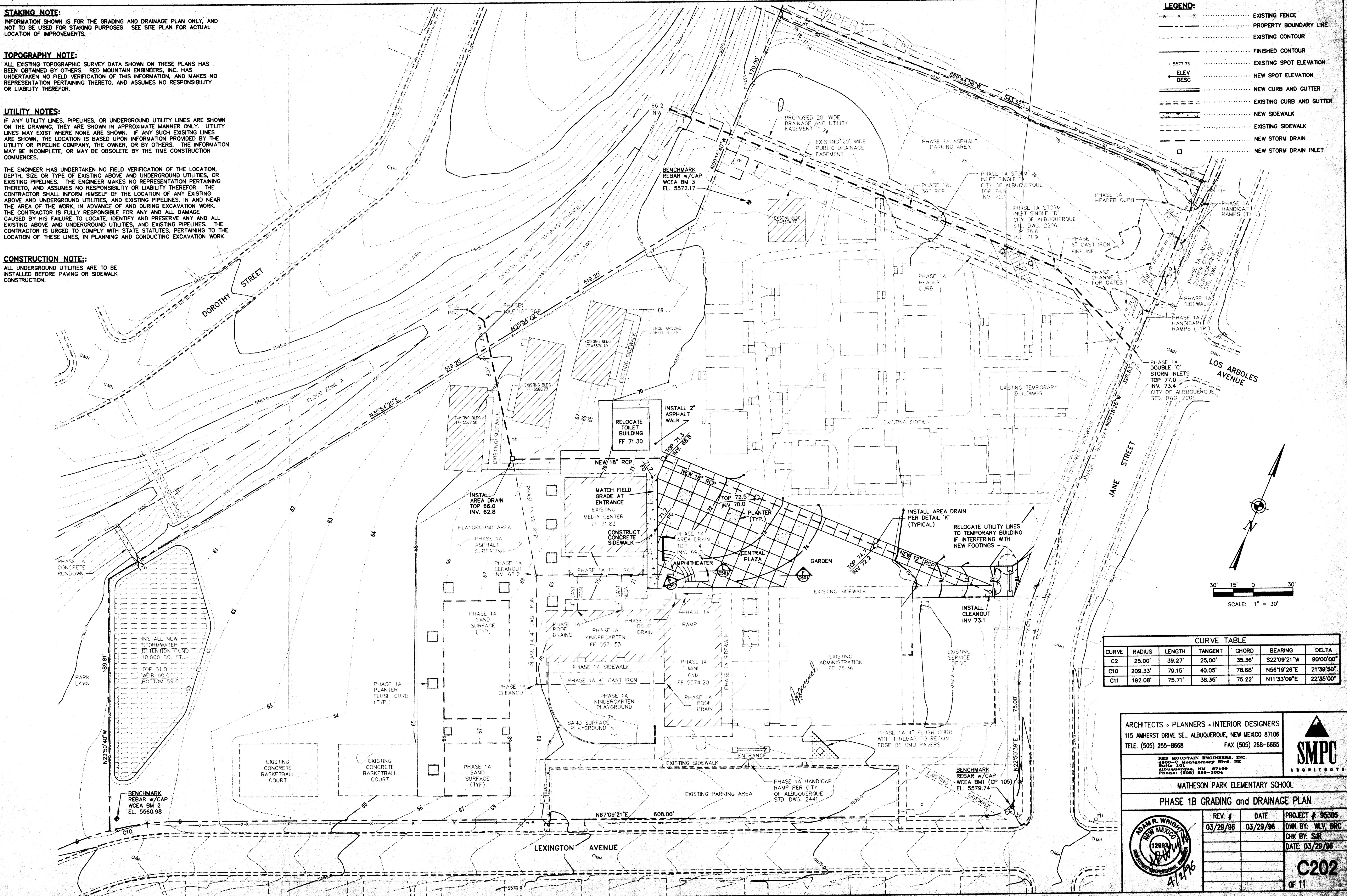
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- EXISTING CURB AND GUTTER
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- NEW STORM DRAIN INLET



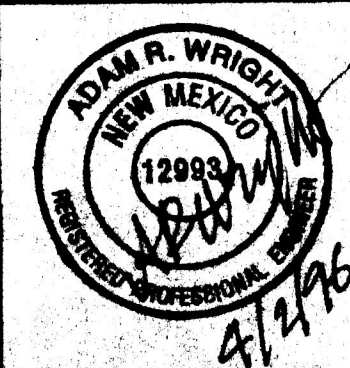
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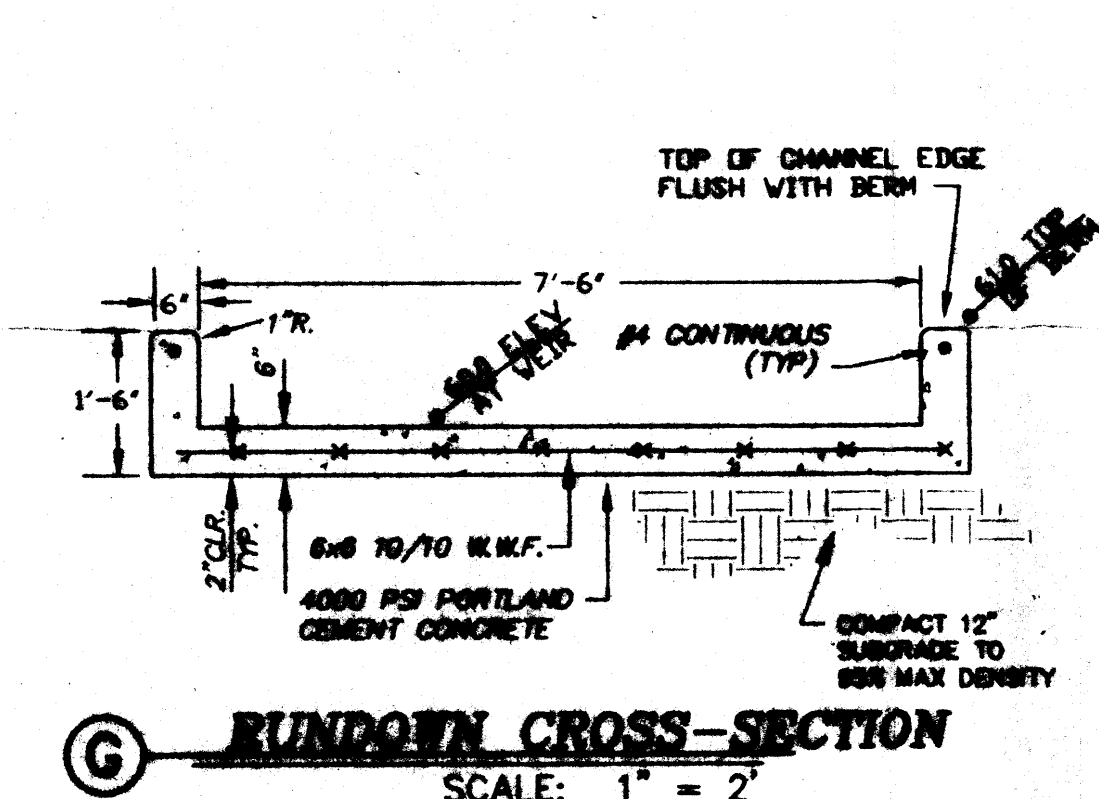
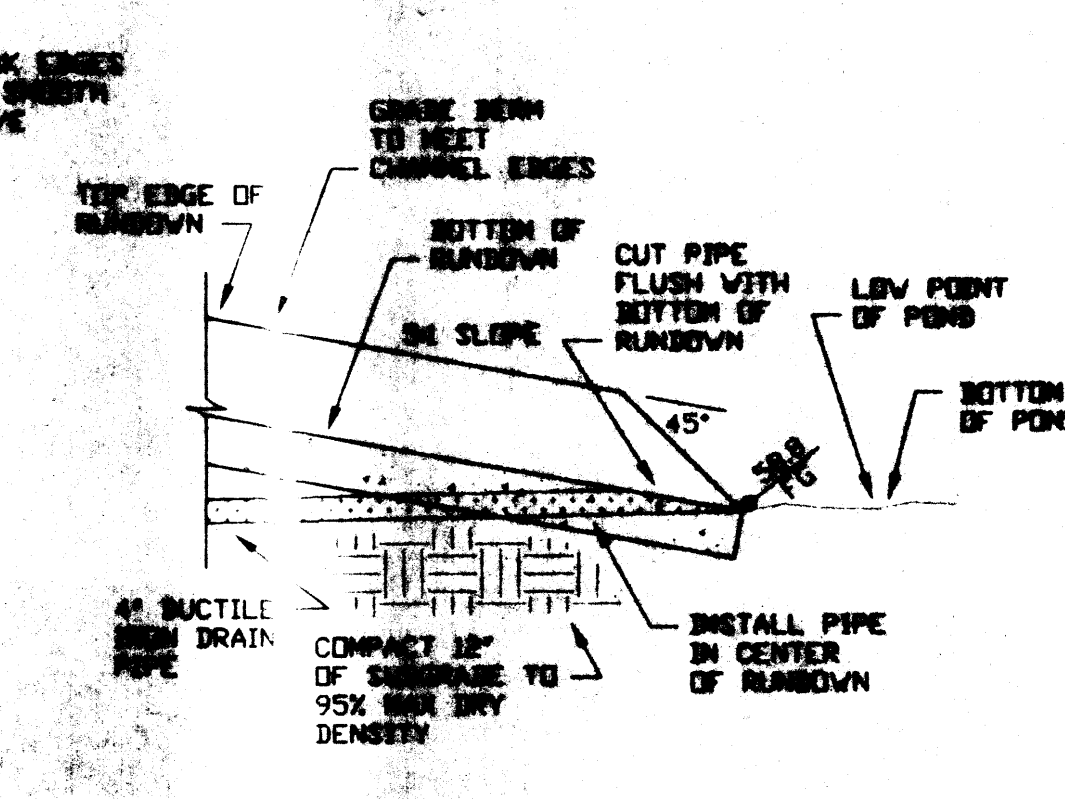
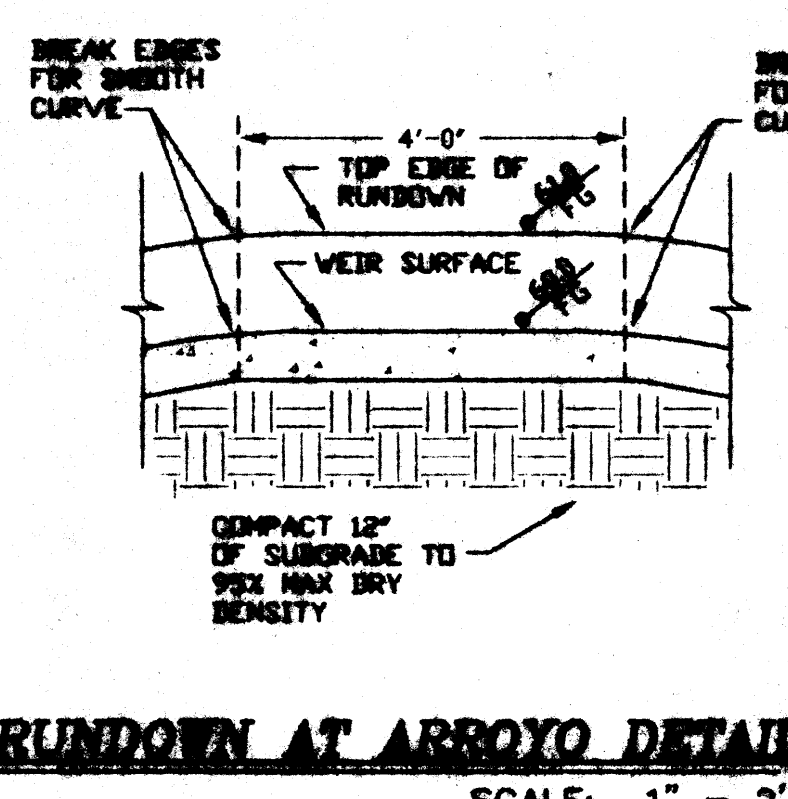
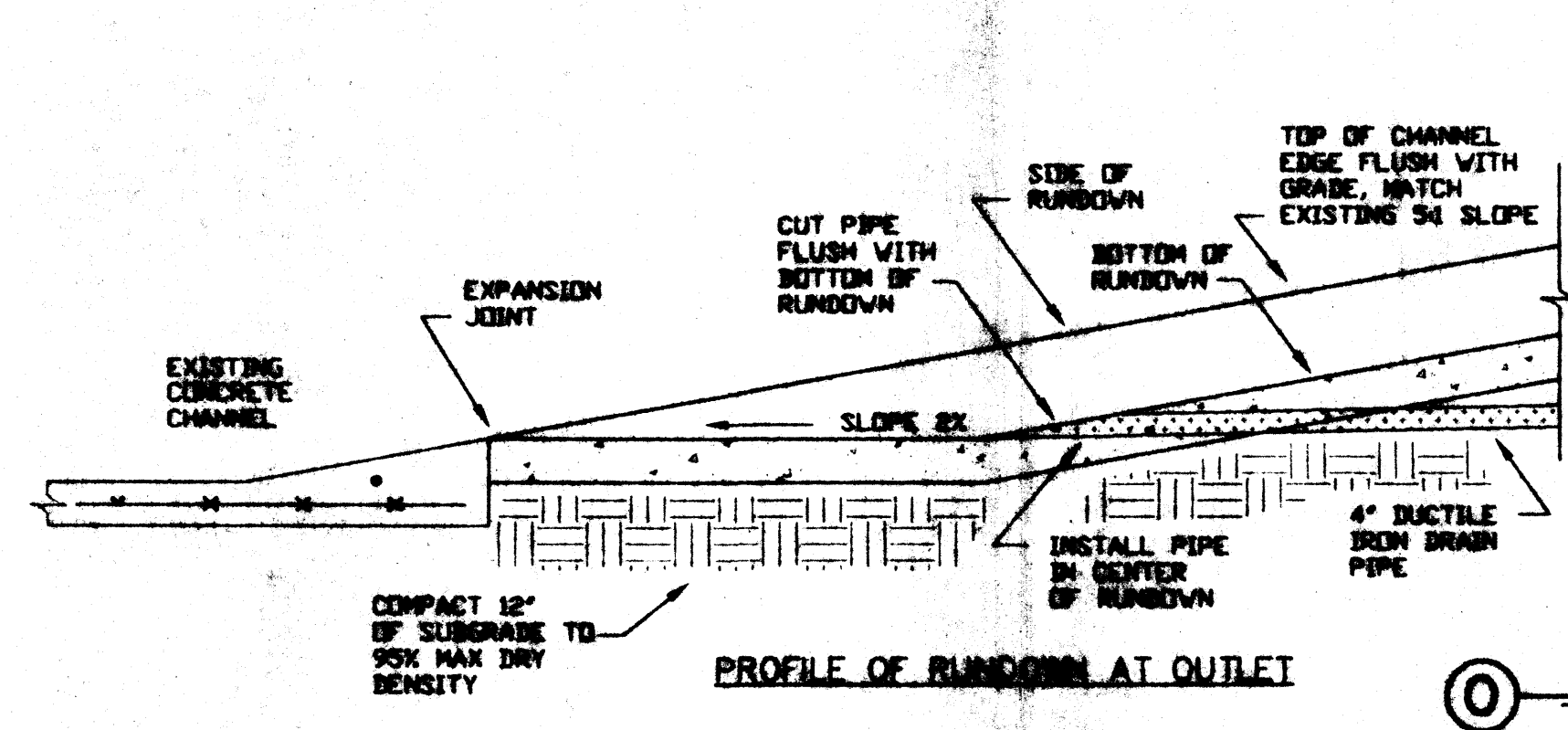
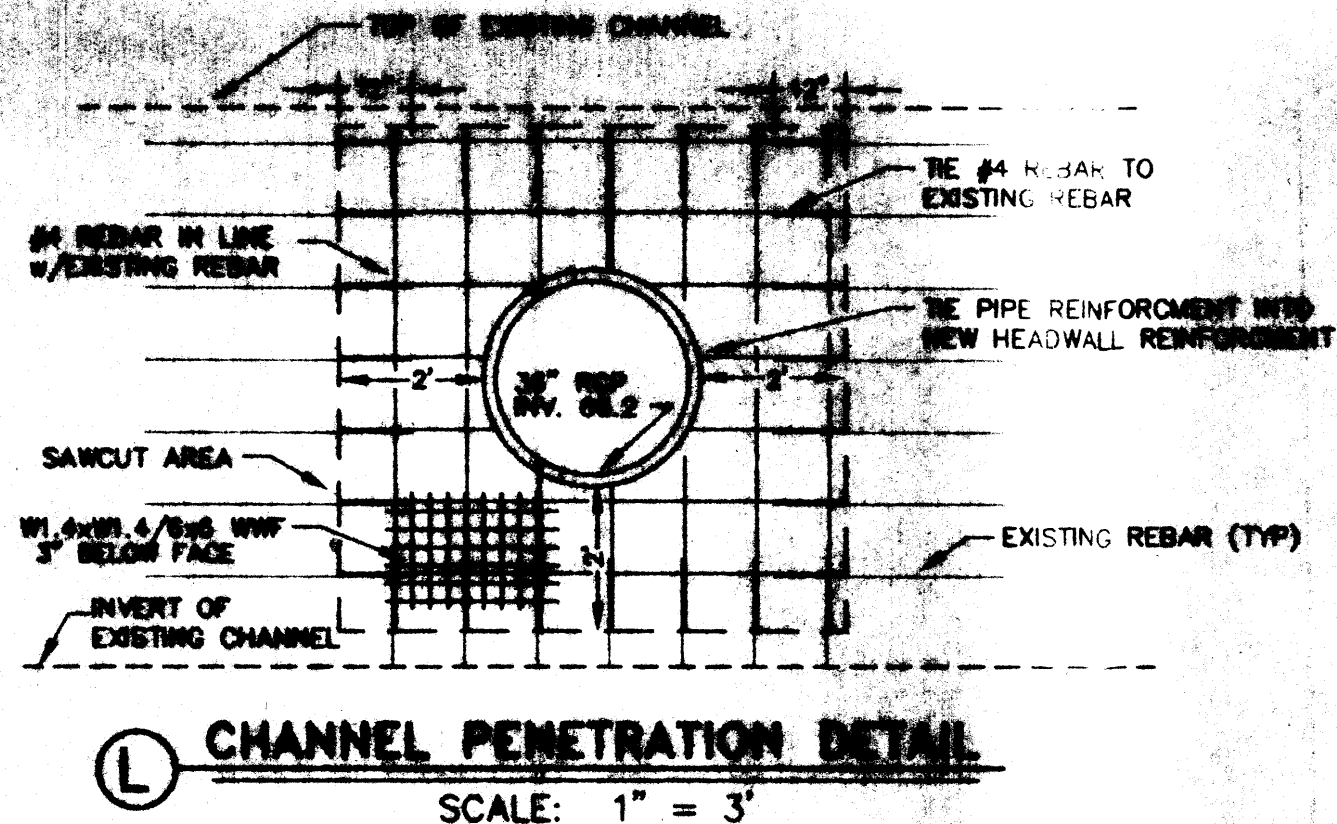
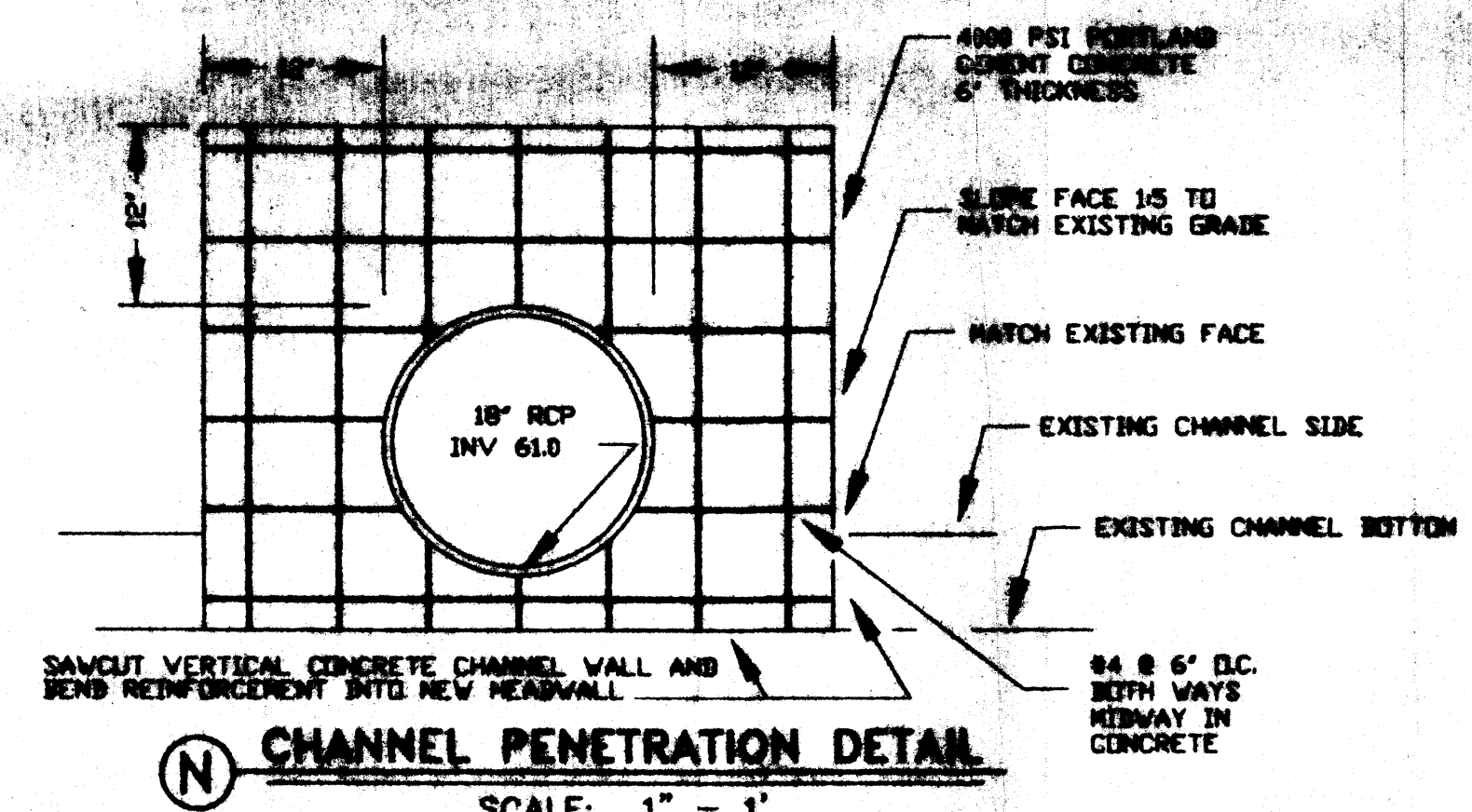
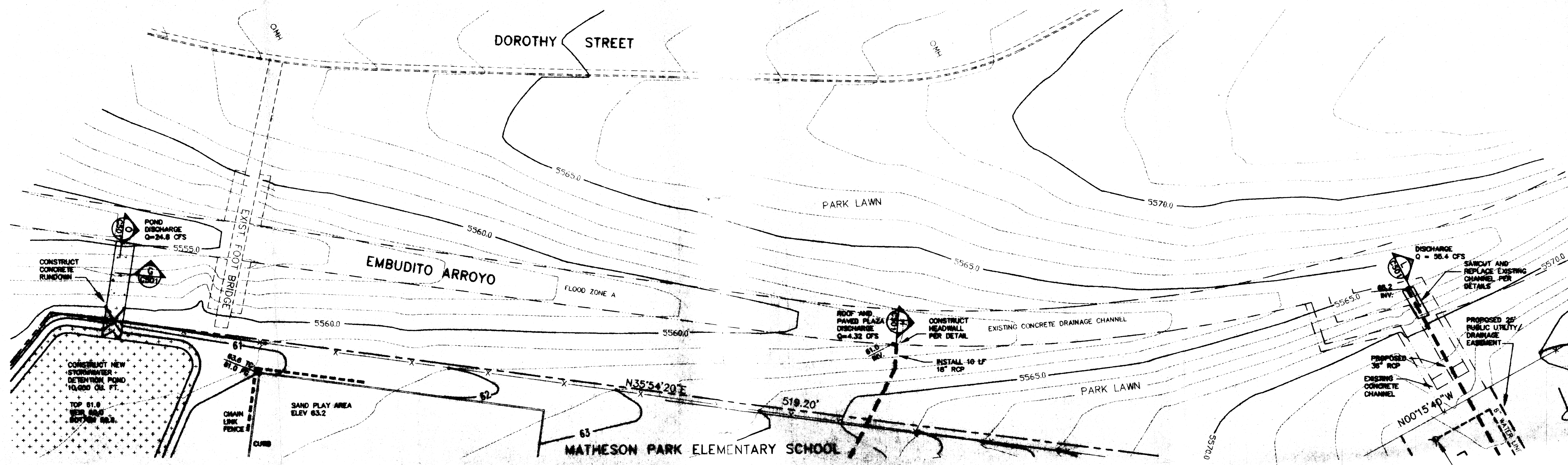
RED MOUNTAIN ENGINEERS, INC.
1400-C Montebello Blvd., NE
Suite 101
Albuquerque, NM 87109
Phone: (505) 888-8004

MATHESON PARK ELEMENTARY SCHOOL

PHASE 1B GRADING and DRAINAGE PLAN



REV. #	DATE	PROJECT #
03/29/96	03/29/96	95305
		DWN BY: WLV, BRC
		CHK BY: SAR
		DATE: 03/29/96
		C202
		OF 11



LEGEND:

- EXISTING FENCE
- PROPERTY BOUNDARY LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FINISHED CONTOUR
- FINISHED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CURB AND GUTTER
- NEW STORM DRAIN

Red Mountain Engineers, Inc.
Engineers Surveyors Planners
4800-C Montgomery Blvd., NE, Suite 101
Albuquerque, NM 87110
Phone: (505) 886-8064

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

**TITLE: MATHESON PARK ELEMENTARY
EMBUDITO ARROYO OUTLETS**

Design Review Committee	City Engineer Approval	City Project No.	Zone Map No.	Sheet	Of
		H-21-E		2	3

Revisions:

No.	Date	By	Remarks
1	8/13/96	SA	Design
2	8/13/96	SA	Design
3	8/13/96	SA	Design

Engineer's Seal: 6-17-96

STAKING NOTE

INFORMATION SHOWN IS FOR THE GRADING AND DRAINAGE PLAN ONLY, AND NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

TOPOGRAPHY NOTE

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED BY OTHERS. RED MOUNTAIN ENGINEERS, INC. HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR.

UTILITY NOTES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY. UTILITY 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. 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 ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR IS URGED TO COMPLY WITH STATE STATUTES, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION WORK.

WHEELCHAIR RAMP NOTES

1. MINIMUM RAMP CLEAR WIDTH SHALL BE 36".
2. MINIMUM LANDING LENGTH ON EITHER END OF RAMP SHALL BE 60".
3. MAXIMUM RAMP SLOPE SHALL BE 1:12.
4. MAXIMUM FLARED SIDE SLOPE SHALL BE 1:10.
5. SURFACE TEXTURE OF WHEELCHAIR RAMPS SHALL BE OBTAINED BY HEAVY BROOMING (TEXTURE DEPTH 0.035 INCHES) TRANSVERSE TO SLOPE OF THE RAMP.

SANDBOX NOTES

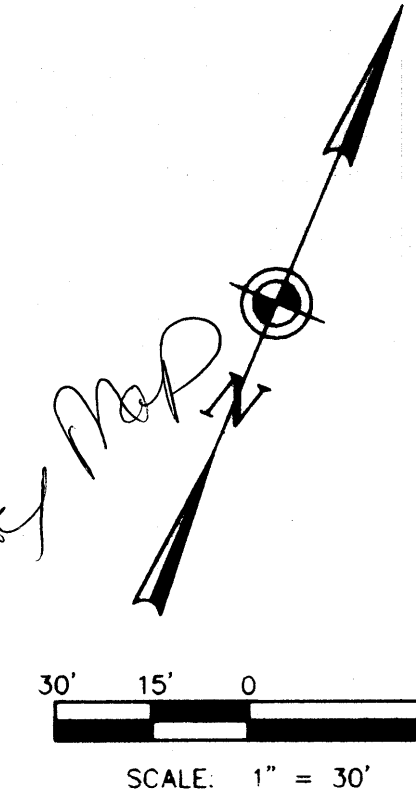
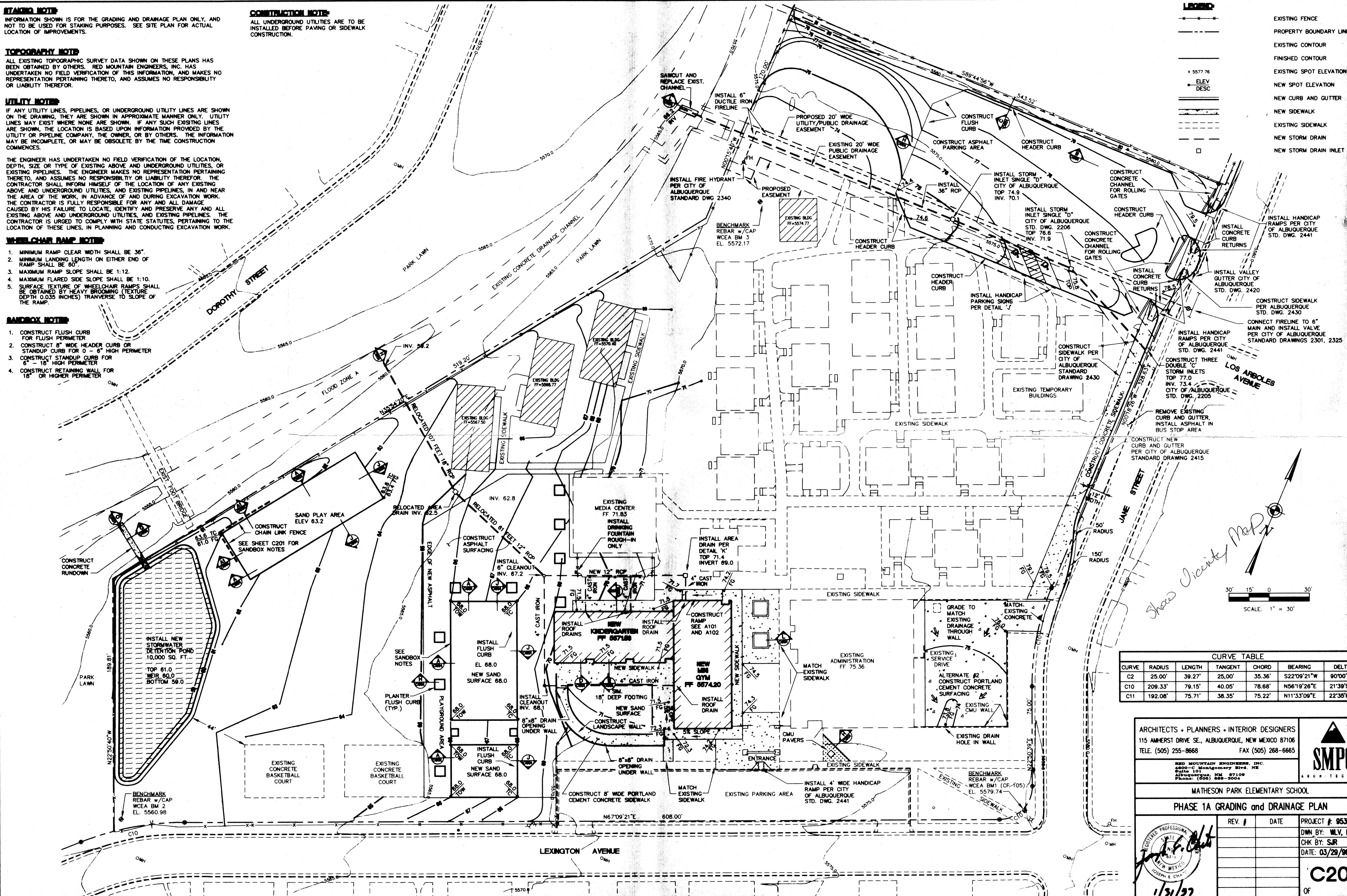
1. CONSTRUCT FLUSH CURB FOR FLUSH PERIMETER
2. CONSTRUCT 8" WIDE HEADER CURB OR STANDUP CURB FOR 0 - 6" HIGH PERIMETER
3. CONSTRUCT STANDUP CURB FOR 6" - 18" HIGH PERIMETER
4. CONSTRUCT RETAINING WALL FOR 18" OR HIGHER PERIMETER

CONSTRUCTION NOTE

ALL UNDERGROUND UTILITIES ARE TO BE INSTALLED BEFORE PAVING OR SIDEWALK CONSTRUCTION.

LEGEND

- EXISTING FENCE
- PROPERTY BOUNDARY LINE
- EXISTING CONTOUR
- FINISHED CONTOUR
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- NEW CURB AND GUTTER
- NEW SIDEWALK
- EXISTING SIDEWALK
- NEW STORM DRAIN
- NEW STORM DRAIN INLET



CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING
C2	25.00'	39.27'	25.00'	35.36'	S22°09'21"W
C10	209.33'	79.15'	40.05'	78.68'	N56°19'26"E
C11	192.08'	75.71'	38.35'	75.22'	N11°33'09"E

ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
115 AMHERST DRIVE SE, ALBUQUERQUE, NEW MEXICO 87106
TELE (505) 255-8668 FAX (505) 268-6665



MATHESON PARK ELEMENTARY SCHOOL

PHASE 1A GRADING and DRAINAGE PLAN

REV. #	DATE	PROJECT # 95305
1	1/31/97	DWN BY: MLV, BRC
		CHK BY: SJR
		DATE: 03/29/98
		C201
		OF 2