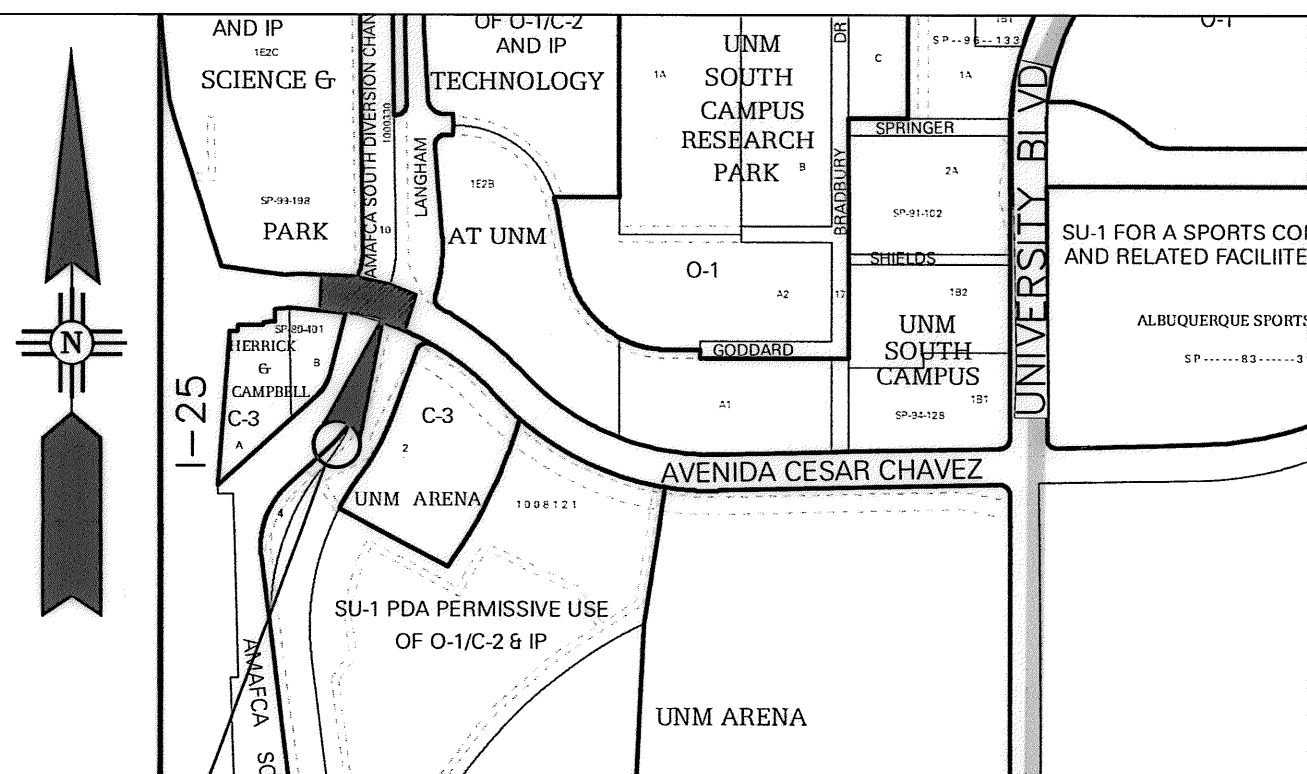


CITY OF ALBUQUERQUE CONSTRUCTION PLANS

AVENIDA CESAR CHAVEZ INLET DESIGN PROJECT COA Project 5015.07

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PROJECT LOCATION

VICINITY MAP
NTS

Zone Atlas Map
L15Z



FINAL DESIGN SUBMITTAL

ABCWUA ACCEPTANCE OF RECORD DRAWINGS

CONSTRUCTION ENGINEER

PRINT NAME _____

DATE _____

**PARSONS
BRINCKERHOFF**

| | | | | | | |
|---|---------------|---|-----------------|---|-----------------|------|
| REV. | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE |
| ENGINEERS STAMP & SIGNATURE APPROVALS ENGINEER DATE ***** | | | | | | |
| | | DRC Chairman <i>A. Woodall</i> 9/10/14 | | APPROVED FOR CONSTRUCTION <i>[Signature]</i> 9/10/14 City Engineer Date | | |
| | | Transportation <i>[Signature]</i> 9/10/14 | | | | |
| | | Water/Wastewater <i>[Signature]</i> 9/10/14 | | | | |
| | | Hydrology <i>[Signature]</i> 9-9-14 | | | | |
| | | Parks | | | | |
| Constr. Coord. | | Traffic Eng. | | SHEET | | |
| AMAFCA | | PROJECT NO. 5015.07 | | 1 of 32 | | |


GENERAL NOTES:


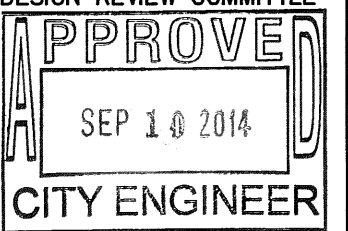

1. SPECIFICATIONS ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, 1986 EDITION, UPDATE 8, INCLUDING AMENDMENT 1 TO UPDATE 8.
2. BUSINESS ACCESS THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CITY ENGINEER.
3. CONSTRUCTION SCHEDULE SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A CONSTRUCTION SCHEDULE. THAT SHALL BE SUBMITTED AND UPDATED IN ACCORDANCE WITH THE CONTRACT TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. THE CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION.
4. NM ONE-CALL TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
5. PERMITS CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WORK PERFORMED.
6. 24-HOUR CONSTRUCTION ALL WORK IMPACTING ARTERIAL ROADWAY MAY REQUIRE 24-HOUR CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S ORANGE BARREL POLICY. THE CONSTRUCTION COORDINATION ENGINEER SHALL DETERMINE IF MARATHON CONSTRUCTION IS REQUIRED AND COORDINATE WITH THE CONTRACTOR.
7. INTERSECTION WORK CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.
8. OVERNIGHT PARKING OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. CLEAR ZONE THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 10 FEET FROM THE FACE OF CURB. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CONSTRUCTION CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION, AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
10. REGULATORY SIGNS THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS THAT NEED TO BE REMOVED, RELOCATED, OR REINSTALLED. CALL 857-8680. REFER TO SECTION 18.4.4 OF THE SPECIFICATIONS.
11. SURVEY MONUMENTS THE CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
12. CONSTRUCTION LIMITS THE CONTRACTOR WILL BE REQUIRED TO CONFINED THEIR WORK WITHIN THE CONSTRUCTION LIMITS AND/OR R.O.W. TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES.
13. BUILDING DAMAGE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT BUILDING STRUCTURES ADJACENT TO THE PROJECT NOT BE DAMAGED DUE TO ANY CONSTRUCTION ACTIVITIES. DAMAGE CAUSED TO ANY BUILDING STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ALL COSTS INCURRED IN RESTORING/REPAIRING SAID DAMAGE.
14. PEDESTRIAN ACCESS THE CONTRACTOR SHALL SUBMIT A PROPOSED WORK PLAN FOR PEDESTRIAN IMPROVEMENTS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INITIATING THIS WORK. THIS PLAN SHALL INCLUDE THE METHOD PROPOSED TO MAINTAIN PEDESTRIAN ACCESS TO BUSINESSES, SCHOOLS, HOSPITALS, BUILDINGS, ETC. THROUGHOUT THE PEDESTRIAN IMPROVEMENTS CONSTRUCTION IN PARTICULAR. THE CONTRACTOR, AT MINIMUM, SHALL MAINTAIN A 48" CLEAR PATH FOR PEDESTRIANS SO AS TO MEET ADA ACCESSIBILITY REQUIREMENTS.
15. NEWS MEDIA THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF CONSTRUCTION ACTIVITIES WHICH WILL IMPEDE THE NORMAL FLOW OF TRAFFIC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
16. AS-BUILTS THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED AND ACCEPTED BY THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT.
17. GRAFFITI THE CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORK SITE AND SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT AND ROADWAY FEATURES, WHETHER PERMANENT OR TEMPORARY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASURE OR PAYMENT WILL BE MADE THEREFOR.
18. CONSTRUCTION SIGNING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT IS ACCEPTED BY THE CITY.
19. NON-VIBRATORY ROLLER THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35 TON MAXIMUM NON-VIBRATORY ROLLER TO OBTAIN THE REQUIRED COMPACTION IN PAVEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADES IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.
20. EXISTING TIE-IN ALL NEW STREET PAVING, CURB AND GUTTER, SIDEWALKS OR DRIVE PADS SHALL MATCH THE ELEVATIONS OF ABUTTING EXISTING AREAS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
21. CONSTRUCTION SIGNING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT IS ACCEPTED BY THE CITY.
22. MANHOLE RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT ELEVATIONS.
23. SAW CUT WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEAT VERTICAL STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
24. FIELD VERIFICATION THE CONTRACTOR SHALL VERIFY ALL EXISTING FIRE HYDRANT FLANGES, PADS, VALVE BOXES, MANHOLE RIMS AND TOP OF PIPE ELEVATIONS IN THE FIELD. ELEVATIONS SHALL BE ADJUSTED TO FINISHED GRADE TO COMPLY WITH THE REQUIREMENTS OF THE STANDARD CITY DETAILS.

GENERAL NOTES CONTINUED:

25. SLOPE LIMITS THE CONTRACTOR SHALL WARP SLOPES UP TO 3:1 WHERE NECESSARY TO STAY WITHIN THE RIGHT OF WAY OR CONSTRUCTION EASEMENT LIMITS. THE WORK SHALL BE AS DIRECTED BY THE PROJECT MANAGER.
26. SUBGRADE PREP THE SUBGRADE PREP SHALL EXTEND ONE (1) FOOT BEYOND THE FREE EDGE OF NEW SIDEWALK AND SHALL BE CONSIDERED INCIDENTAL TO SIDEWALK CONSTRUCTION.
27. DAMAGE REPAIR THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT STRIPING & MARKINGS, CURB AND GUTTER, DRIVEPADS, HANDICAP RAMPS, SIGNAGE, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REMOVE AND REPLACE AS PER COA STANDARDS AT THEIR OWN EXPENSE.
28. REMOVALS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THE COST OF HAULING OF REMOVALS AND MATERIAL TO BE DISPOSED SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
29. CONCRETE REMOVAL WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE TO NEAREST JOINT.
30. DISPOSALS ALL CONSTRUCTION DEBRIS, SPOIL AND NON-SALVAGEABLE ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND PROPER DISPOSAL OF THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY HAUL COSTS ASSOCIATED WITH THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.
31. SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT THE FOLLOWING LOCATIONS: SIGNING, FIRE HYDRANTS, STREET LIGHT, INLET GRATES, CITY OF ALBUQUERQUE PINO YARDS. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR EACH SALVAGE ITEM.
32. BACKFILL COMPACTION ALL TRENCH EXCAVATION BACKFILL WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR PER ASTM D-698 OR D-1557 AND COA STD. DWG. 2465 AS APPLICABLE.
33. EXISTING STRUCTURES THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL. ALL STRUCTURES (NEW AND EXISTING) SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION. NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR CLEANING OF STRUCTURES.
34. OSHA REQUIREMENTS EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR EMPLOYEES SAFETY.
35. R-VALUE THE DESIGN R-VALUE FOR THIS PROJECT IS 50. WHERE SOILS WITH AN R-VALUE OF LESS THAN 50 OCCUR AT FINISHED SUBGRADE ELEVATION OF PAVED ROADWAY AREAS, THESE SOILS SHALL BE OVER EXCAVATED A VERTICAL DEPTH OF AT LEAST TWO (2) FEET AND FOR A LATERAL DISTANCE OF AT LEAST TWO (2) FEET OUTSIDE OF THE BACK EDGE OF CURB (SEE CITY OF ALBUQUERQUE STANDARD DESIGN SECTIONS). THE OVER EXCAVATED MATERIAL SHALL BE REPLACED WITH A MATERIAL HAVING AN R-VALUE OF AT LEAST 50. OVER EXCAVATION WILL BE PAID FOR UNDER COA ITEM NO. 202.011 - EXCAVATE AND DISPOSE OF UNSUITABLE MATERIAL, COMPLETE.
36. STRUCTURAL FILL: STRUCTURAL FILL FOR EMBANKMENTS, PAVEMENTS, AND STRUCTURES SHALL BE PLACED IN LIFTS THAT, FOLLOWING COMPACTION, DO NOT EXCEED 8". FILLS SHOULD BE COMPACTED AT MOISTURE CONTENTS WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM. SELECT STRUCTURAL FILL AROUND CULVERTS AND OTHER STRUCTURES SHOULD BE COMPACTED, USING HAND OPERATED COMPACTION EQUIPMENT AND IN LIFTS NOT EXCEEDING 4", TO THE DENSITY AND MOISTURE CONTENT SPECIFIED ABOVE. THE UPPER 12" OF ROADBEDS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY (ASTM 1557).
37. TEMPORARY FLOOD CONTROL: THE CONTRACTOR SHALL PROTECT THE WORK ZONE AND KEEP THE ROADWAY SAFELY PASSABLE AT ALL TIMES BY DRAINING OR PUMPING FLOOD WATER AS NEEDED. THE CONTRACTOR SHALL SUBMIT A FLOOD CONTROL PLAN TO THE P.M. FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. AT A MINIMUM THE PLAN SHALL SHOW:
- 1) THE PROPOSED STORM WATER REMOVAL METHODS.
- 2) THE AVAILABILITY OF ON-CALL MATERIALS AND EQUIPMENT.
- 3) THE TIME FRAME FOR RESPONSE DURING A STORM EVENT.
- 4) THE LOCATIONS FOR THE STORM WATER DISPOSAL.
- THE CONTRACTOR SHALL NOT DIVERT CONCENTRATED FLOWS ONTO PRIVATE PROPERTY. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 30.01 - FLOOD PROTECTION.
38. EXISTING UTILITIES IN PLAN ALL EXISTING UTILITIES SHOWN HEREIN WERE TAKEN FROM RECORD DRAWINGS, FIELD SURVEYS, C.O.A. SYSTEMS UTILITIES MAPS AND INFORMATION PROVIDED BY THE UTILITY OWNERS AND ARE APPROXIMATE. IT WILL BE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS AND TYPE OF EXISTING UTILITIES TO BE ADJUSTED OR EXTENDED AND TO PROVIDE PROTECTION FOR ALL UTILITIES WITHIN THE CONSTRUCTION AREA.
39. AVOIDING UTILITIES THE CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION THAT MIGHT RESULT FROM PROJECT CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND PRESERVE UTILITY EQUIPMENT AFFECTED BY PROJECT CONSTRUCTION. SHOULD THE CONTRACTOR BREAK AN EXISTING UTILITY LINE DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY REPAIR COSTS.
40. WATER SERVICE THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AND WATER AUTHORITY AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF WHEN FIRE HYDRANTS WILL BE TAKEN OUT OF SERVICE AND RETURNED TO SERVICE. ALL HYDRANTS TAKEN OUT OF SERVICE SHALL BE BAGGED.
41. UTILITY POLES ALL UTILITY POLES TO BE RELOCATED SHALL BE TEMPORARILY SUPPORTED BY OTHERS PRIOR OR DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRIC FOR THIS RELOCATION. CALL 241-3464. THE COST OF RELOCATION SHALL BE PAID FOR BY THE CITY OF ALBUQUERQUE.
42. ADJUSTING UTILITIES ALL GAS VALVE BOXES, GAS MANHOLES, ELECTRICAL MANHOLES, AND TELEPHONE MANHOLES WILL BE ADJUSTED TO GRADE BY OTHERS. THIS WORK SHALL BE COORDINATED WITH EACH UTILITY. A UTILITY COORDINATION MEETING SHALL BE SET UP BY THE CONTRACTOR A MINIMUM OF ONE (1) WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY. COORDINATION OF UTILITY RELOCATION SCHEDULES SHALL BE DETAILED AT THIS MEETING. EACH UTILITY WILL BE RESPONSIBLE FOR THE COST OF THE WORK.
43. QUEST RELOCATION THE CONTRACTOR SHALL COORDINATE WITH QWEST ON RELOCATION OF ANY TELEPHONE BOXES.
44. CABLE RELOCATION THE CONTRACTOR SHALL COORDINATE WITH COMCAST CABLE ON RELOCATION OF ANY CABLE TELEVISION SERVICES.

PARSONS
BRINCKERHOFF

| AS BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
|------------------------|------|---|------|--------------------|----|---|------------|
| CONTRACTOR | DATE | ALBUQUERQUE GRS BENCHMARK "25.116" | DATE | NO. | BY |  | REMARKS |
| WORK STARTED BY | DATE | 1 3/4" METALLIC DISC | DATE | | | | |
| ACCEPTANCE BY | DATE | STATION IS LOCATED AT THE INTERSECTION OF | | | | | |
| FIELD LOCATION BY | DATE | OF YALE BLVD., AVENDIA CESAR CHAVEZ | | | | | |
| DRAWINGS CORRECTED BY | DATE | AND SANTA CLARA AVE. | | | | DESIGNED BY: PB | DATE: 8/14 |
| MICRO-FILM INFORMATION | | NAVD 1988 ELEV. = 5156.683 | | | | DRAWN BY: PB | DATE: 8/14 |
| RECORDED BY | DATE | | | | | CHECKED BY: PB | DATE: 8/14 |
| | | | | | | | |

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|---|--------------|---|--|
|  CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN | | | |
| DESIGN REVIEW COMMITTEE | | CITY ENGINEER APPROVAL | |
|  | |  | |
| CITY ENGINEER | | DESIGN REVIEW COMMITTEE | |
| City Project No. | Zone Map No. | Sheet | |
| COA 5015.07 | L15 | 2 OF 32 | |

GENERAL NOTES CONTINUED:

45. UTILITY LOCATIONS THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND TYPE OF EXISTING UTILITIES TO BE ADJUSTED OR EXTENDED.
46. MATCHING EXISTING GRADES WHERE A PROFILE GRADE IS NOT PROVIDED IN THE PLANS, STREET CENTERLINE GRADES SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING CENTERLINE GRADES. CROSS SECTION THE EXISTING ROAD PRIOR TO CONSTRUCTION AS NEEDED TO MATCH EXISTING (50' MIN.). MINOR ADJUSTMENTS TO THE STREET GRADES MAY BE NECESSARY AND WILL BE DIRECTED BY THE PROJECT ENGINEER. MINOR ADJUSTMENTS TO THE STREET GRADES WILL BE CONSIDERED INCIDENTAL TO THE PAVING BID ITEMS. SMOOTH TRANSITIONS SHALL BE MADE BETWEEN EXISTING PAVEMENT WHICH REMAINS IN PLACE AND PAVEMENT WHICH IS BEING REPLACED. TRAFFIC CONTROL DEVICES, INCLUDING PAVEMENT MARKINGS, MUST BE RESTORED TO THE SAME OR BETTER CONDITION AS BEFORE CONSTRUCTION.
47. WATER SHUT-OFF PLAN THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN-ON_PROCEDURES.ASPX
48. IF HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL CEASE ALL WORK, AND CONTACT THE OFFICE OF MEDICAL EXAMINER FOR FURTHER INSTRUCTIONS.
49. ELECTRONIC MARKER DEVICES SHALL BE INSTALLED PER STANDARD TECHNICAL SPECIFICATION SECTION 170 AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
50. NPDES COMPLIANCE THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A LOW EROSIONITY WAIVER FOR THIS PROJECT. COST FOR THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION.
51. TRAFFIC CONTROL PLAN THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AND OBTAIN APPROVAL OF A TRAFFIC CONTROL PERMIT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE PERMIT TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN THAT SHALL REFLECT THE PROPOSED TRAFFIC CONTROL SEQUENCING SCHEDULE-SHEET 14. THESE PLANS MUST BE PREPARED AND SEALED BY A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER. THE PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY OF ALBUQUERQUE AND AMAFCA.
- THE TRAFFIC CONTROL PERMIT ALONG WITH THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE CITY OF ALBUQUERQUE AND AMAFCA AT LEAST 10 WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED ON 11 X 17 SHEETS. NO HAND DRAFTED TRAFFIC CONTROL PLANS WILL BE ACCEPTED.
- THE CITY OF ALBUQUERQUE AND AMAFCA RESERVE THE RIGHT TO MAKE CHANGES TO THE CONTRACTORS TRAFFIC CONTROL PLAN TO ADDRESS SITE SPECIFIC ITEMS THAT WERE NOT SHOWN ON THE PLANS. THE CITY OF ALBUQUERQUE AND AMAFCA ALSO RESERVE THE RIGHT TO ADD DEVICES AND/OR SIGNS TO THE APPROVED PLAN IF IT IS DETERMINED THAT THE SIGN AND/OR DEVICES WOULD BE REQUIRED TO ADDRESS SAFETY CONCERNS WITHIN OR IN ADVANCE OF THE WORK ZONE. ANY CHANGES TO THE PLANS WHICH RESULT IN ADDITIONAL SIGNS AND/OR DEVICES WILL BE CONSIDERED INCIDENTAL TO ITEM 19.010 - CONSTRUCTION TRAFFIC CONTROL AND BARRICADING.
52. IDENTIFYING UTILITIES THE CONTRACTOR WILL EXPLORE AND IDENTIFY ALL EXISTING UTILITIES AND STORM DRAINAGE PIPE PRIOR TO COMMENCING ANY BORING OPERATIONS. THE CONTRACTOR WILL OFFSET THE PROPOSED DRAINAGE PIPES SO THAT THE BORING OPERATION WILL NOT DAMAGE THE EXISTING PIPE. THE CONTRACTOR WILL PROVIDE A BORING LAYOUT TO THE PROJECT MANAGER 24 HOURS PRIOR TO BEGINNING THE BORING. COST FOR THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION.

LIGHTING GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND PULL BOXES THROUGHOUT THE PROJECT AS DIRECTED BY THE PROJECT MANAGER.
2. EACH TIME A ROADWAY LUMINAIRE IS TURNED ON OR OFF, THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES.
- PNM ELECTRIC
CITY OF ALBUQUERQUE
3. POWER SHALL NEITHER BE TURNED ON NOR OFF UNTIL THE RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
4. PNM ELECTRIC COMPANY WILL ASSIST WITH THE IDENTIFICATION OF EXISTING CIRCUITS. CONTRACTOR WILL BE REQUIRED TO TIE THE NEW CIRCUIT INTO THE EXISTING CIRCUITS. CONTRACTOR SHALL USE APPROPRIATE CAUTION WHEN INTERCEPTING EXISTING CIRCUITS.
5. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN VERTICAL CLEARANCE AND HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM ELECTRIC COMPANY WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF ALBUQUERQUE FOR APPROVED PRODUCTS LISTING FOR LIGHTING SIGNAL COMPONENTS.
7. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
8. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
9. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
10. CAP UNUSED WIRING.
11. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE THE CONDUIT. CAUTION TAPE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
12. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DAMAGE TO ANY LIGHTING EQUIPMENT, INCLUDING EXISTING CONDUIT TO REMAIN, DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SALVAGE AND/OR REPLACE LIGHTING EQUIPMENT IN KIND TO THE SATISFACTION OF THE CITY OF ALBUQUERQUE PROJECT MANAGER.

AMAFCA GENERAL NOTES :

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W. TELEPHONE (505)884-2215.
2. NO WORK SHALL BE PERFORMED IN THE AMAFCA R/W BETWEEN MAY 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FROM AMAFCA.
3. ALL SUB-GRADE, BACKFILL, AND EMBANKMENT SHALL BE COMPACTED TO 95% (± 2% OF OPTIMUM MOISTURE PER ASTM D-1557) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.
5. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012 NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.
6. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A NM LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE. AMAFCA SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY MONUMENT PLACEMENT.
7. THE MAXIMUM WHEEL LOAD ALLOWED IN AMAFCA CHANNELS IS 12,000 POUNDS.
8. NO TRACKED VEHICLES ARE ALLOWED IN AMAFCA CHANNELS REGARDLESS OF LOCATION WITHOUT WRITTEN PERMISSION FROM AMAFCA.
9. CRANES OPERATING IN AMAFCA CHANNELS WITH OUTRIGGERS SHALL LIMIT THE OUTRIGGER FOOTPRINT LOAD AREA TO LESS THAN 12,000 POUNDS.
10. CONTRACTOR SHALL OBTAIN A TEMPORARY CONSTRUCTION LICENSE FROM AMAFCA PRIOR TO CONSTRUCTION.


INCIDENTAL ITEMS:


ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

1. CLEAN EXISTING STRUCTURES. SEE GENERAL NOTE 33.
2. MATCHING EXISTING GRADES. SEE GENERAL NOTE 46.
3. ALL NECESSARY CONSTRUCTION WORK PERMITS. SEE GENERAL NOTE 5.
4. CLEAR ZONE SHIELDING. SEE GENERAL NOTE 9.
5. PAVEMENT SAW CUT FOR NEW ROADWAY PAVING, SEE GENERAL NOTE 23.
6. CLEANING TRAFFIC CONTROL DEVICES. SEE GENERAL NOTE 21.
7. YELLOW PAINT FOR CURB RAMPS, CURB RETURNS AND MEDIAN NOSES.
8. HAULING OF MATERIAL TO BE DISPOSED. SEE GENERAL NOTE 28.
9. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND BORING. SEE GENERAL NOTE 52.
10. GRAFFITI MAINTENANCE, SEE GENERAL NOTE 17.
11. WATER SHUT-OFF PLANS, SEE GENERAL NOTE 47.
12. ELECTRONIC MARKER DEVICES. SEE GENERAL NOTE 49.
13. ACQUIRING A LOW EROSIONITY WAIVER. SEE GENERAL NOTE 50.
14. MISCELLANEOUS BRIDGE ITEMS. SEE SHEETS 10-17.
15. LANDSCAPING/IRRIGATION ITEMS. SEE SHEET 7.
16. MISCELLANEOUS CHANNEL STRUCTURE ITEMS. SEE SHEET 19.
17. REMOVAL OF EXISTING DRAINAGE GRATES. SEE SHEET 8.
18. REMOVAL OF DISPOSAL OF MATERIAL ASSOCIATED WITH THE CONSTRUCTION OF THE EROSION PAD. SEE SHEET 9.
19. REINFORCING STEEL ASSOCIATED WITH THE EROSION CONTROL PAD. SEE SHEET 19.
20. DUCTILE IRON FITTINGS AND RESTRAINTS ASSOCIATED WITH LOWERING THE EXISTING 12" WATER LINE. SEE SHEET 9.
21. CONDUIT AND WIRE ASSOCIATED WITH LOWERING THE EXISTING CITY OF ALBUQUERQUE ELECTRICAL SERVICE LINE. SEE SHEET 9.

UTILITY OWNERS:

| | | |
|---|--|---|
| Potts, Michael | Office phone: (505) 697-3138 Office fax: 344-0091 | New Mexico Gas 4625 Edith Blvd. NE Albuquerque, NM 87107 |
| Stratton, Sara | Office phone: (505) 241-3389 | PNM - Electric Co. of NM 4201 Edith Blvd. NE Albuquerque, NM 87107 |
| Mortus, Mike | Office phone: (505) 761-6252 Office fax: (505) 761-0599 | Comcast Planning and Design Supervisor 4611 Montbel Place NE Albuquerque, NM 87107 |
| Kniffin, Rosana | Office phone: (505) 245-6374 | CENTURY LINK/OWEST 4301 Bogo NE Albuquerque, NM 87109 |
| KVC 9/9/14 Ertsgaard, Jon Johnson, Kris | Office phone: (505) 768-2729 Office fax: (505) 768-3629 | ABCWUA P.O. Box 568 Albuquerque, NM 87103 |
| | | NEW MEXICO ONE CALL SYSTEM CALL BEFORE YOU DIG (505) 260-1990 |

| | | | | | | | |
|------------------------|---------------------|---|------|--------------------|----|---|---|
| AS BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
| CONTRACTOR | WORK STARTED BY | ALBUQUERQUE GRS BENCHMARK "25_L16" | DATE | NO. | BY |  | DESIGNED BY: PB DRAWN BY: PB CHECKED BY: PB |
| DATE | ACCEPTANCE BY | 1 3/4" METALLIC DISC | DATE | NO. | BY | | |
| DATE | FIELD INSPECTION BY | STATION IS LOCATED AT THE INTERSECTION OF | DATE | NO. | BY | | |
| DATE | REMARKS | OF YALE BLVD., AVENDIA CESAR CHAVEZ | DATE | NO. | BY | | |
| MICRO-FILM INFORMATION | | AND SANTA CLARA AVE. | | NO. | | DESIGN | |
| RECORDED BY | | NAVD 1988 ELEV. = 5156.683 | | NO. | | DATE 8/14 | |
| NO. | | | | NO. | | DATE 8/14 | |
| | | | | NO. | | DATE 8/14 | |

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|---|--|--|--|---|--|-------------|--|
|  | | | | CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN | | | |
| GENERAL NOTES | | | | MO./DAY/YR. | | MO./DAY/YR. | |
| DESIGN REVIEW COMMITTEE APPROVED SEP 10 2014 DESIGN REVIEW COMMITTEE | | CITY ENGINEER APPROVAL APPROVED SEP 10 2014 CITY ENGINEER | | | | | |
| City Project No. COA 5015.07 | | Zone Map No. L15 | | Sheet 3 OF 32 | | | |

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| ROADWAY ITEMS | | | |
|---------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 301.020 | Subgrade Prep. 12" at 95% compaction, cip. | SY | 444 |
| 302.010 | Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408 | SY | 444 |
| 336.022 | Asphalt Concrete, 2 inch thick, superpave | SY | 1,332 |
| 340.050 | Curb & Gutter, Standard, Portland Cement Concrete, incl. subgrade preparation, cip. SD 2415 | LF | 58 |
| 606010 | Metal Barrier Thrie Beam | LF | 43 |
| 606050 | Metal Barrier End Treatment (ANCHRG) | EA | 2 |

NOTE: 6" ASPHALT CONCRETE PAVEMENT SECTION ASSUMED. CONTRACTOR TO MATCH EXISTING PAVEMENT SECTION.

| TEMPORARY CONSTRUCTION ROADWAY ITEMS | | | |
|--------------------------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 336.022 | Asphalt Concrete, 2 inch thick, superpave | SY | 740 |
| 302.0XX | 8" Scarified and Compacted Subgrade. 95% Minimum Compaction per section 301. | SY | 180 |
| 340.060 | Curb & Gutter, Median, Portland Cement Concrete, cip. SD 2408 | LF | 460 |
| 340.300 | 4" Median Pavement, Portland Cement Concrete, incl. subgrade compaction. cip. | SY | 120 |

| DRAINAGE ITEMS | | | |
|----------------|--|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 301.020 | Subgrade Prep. 12" at 95% compaction, cip. | SY | 75 |
| 701.100 | Trenching, Backfilling, & Compaction, for 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl. | LF | 120 |
| 910.009 | 24" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip. | LF | 88 |
| 910.013 | 30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip. | LF | 12 |
| 910.017 | 36" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip. | LF | 20 |
| 915.1XX | Median Storm Inlet, 15' Curb Opening, cip. | EA | 4 |
| 920.1XX | AMAFCA Water Quality Manhole | EA | 1 |
| 920.1XX | RCP Channel Penetration | LS | 1 |
| 920.1XX | 8"Diameter Steel Exfiltration Pipe | EA | 1 |
| 515000 | Reinforced Concrete for Minor Structures | CY | 20 |

| STRUCTURAL ITEMS | | | |
|------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 210000 | Excavation and Backfill for Major Structures | CY | 165 |
| 511300 | Substructure Concrete Class A | CY | 10 |
| 512000 | Superstructure Concrete | CY | 38 |
| 516000 | Flowable Fill | CY | 135 |
| 518XXX | Precast Slab Girder | LF | 55 |
| 532000 | Penetrating Water Repellent Treatment | SY | 470 |
| 533000 | Repair of Concrete Structures | CY | 4 |
| 534000 | Epoxy Injection, Type I | GAL | 15 |
| 536001 | Epoxy Urethane Polymer Concrete Bridge Deck Overlay | SY | 145 |
| 540060 | Reinforcing Bars Grade 60 | LB | 700 |
| 540160 | Epoxy Coated Reinforcing Bars Grade 60 | LB | 8500 |
| 543030 | Metal Railing, Type D | LF | 124 |
| 564000 | Preformed Closed Cell Foam Bridge Joint Seals | LF | 202 |
| 601000 | Removal of Structures and Obstructions | LS | 1 |

| CONSTRUCTION ITEMS | | | |
|--------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 4.010 | Construction Staking, compl. | LS | LS |
| 4.020 | Construction Surveying, compl. | LS | LS |
| 6.010 | Construction Project Sign, per Contract Special Provisions, cip | LS | LS |
| 6.050 | Construction Mobilization, compl. | LS | LS |
| 19.010 | Construction Traffic Control & Barricading, compl. | LS | LS |
| 30.010 | Flood Protection, compl. | LS | LS |

| ALLOWANCES | | | |
|-------------|------------------------------------|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| | Project Sign Screen | EA | 1 |
| | Construction Materials Lab Testing | LS | LS |

| SIGNING AND STRIPING ITEMS | | | |
|----------------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 441.001 | ReflectORIZED Plastic Pavement Markings, 4" width, cip. | LF | 2,000 |
| 443.101 | Removal of Pavement Stripe, any width, painted or plastic, compl. | LF | 1,670 |
| 450.101 | Sign, Post, & Base Post, Remove & Salvage, compl. | EA | 2 |
| 450.102 | Sign, Post, & Base Post, Remove & Relocate, compl. | EA | 2 |

| UTILITY ITEMS | | | |
|---------------|--|-------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 422.102 | Traffic Signal Pedestal Pole, any size, Remove & Relocate, compl. | EA | 1 |
| 425.100 | Electrical Pull Box, any type, Adjust to grade, cip. | EA | 1 |
| 920.400 | Existing Manhole Frame & Cover, adjust to grade with metal rings, 2" or less, cip. SD 2111 | EA | 2 |
| 801.00X | 12" Waterline Pipe, including fittings, (std. spec. sec. 801), incl. trench & compacted backfill to 6' depth, cip. | LF | 75 |
| 801.050 | Extra Trench Depth for 4" to 14" waterlines over 6' in depth, incl. compacted backfill, compl. | VF-LF | 5 |
| 801.055 | Existing Waterline, 6" to 14", with fittings, Remove & Dispose, excl. trenching, compl. | LF | 75 |
| 801.059 | Non-pressurized Connection, existing waterline, all sizes, incl. fittings, compl. | EA | 1 |


NOTE: THE EXISTING MANHOLES AND THE ELECTRICAL PULL BOX IN THE MEDIAN WILL HAVE TO BE TEMPORARILY LOWERED TO ACCOMMODATE DRIVING LANES DURING CONSTRUCTION. CONTRACTOR WILL BE PAID ONCE FOR ADJUSTMENT OF MANHOLES AND PULL BOXES TO FINAL GRADE.


| REMOVAL ITEMS | | | |
|---------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 343.030 | Existing Pavement, Asphalt Concrete, more than 4" thick, sawcut, remove & dispose, compl. | SY | 444 |
| 343.080 | Existing Curb & Gutter or Valley Gutter, PC Concrete ,remove & dispose, compl. | LF | 172 |

| TEMPORARY CONSTRUCTION REMOVAL ITEMS | | | |
|--------------------------------------|--|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| 343.080 | Existing Curb & Gutter or Valley Gutter, PC Concrete ,remove & dispose, compl. | LF | 460 |
| 343.085 | Existing Sidewalk, 4" PC Concrete, remove & dispose | SY | 120 |

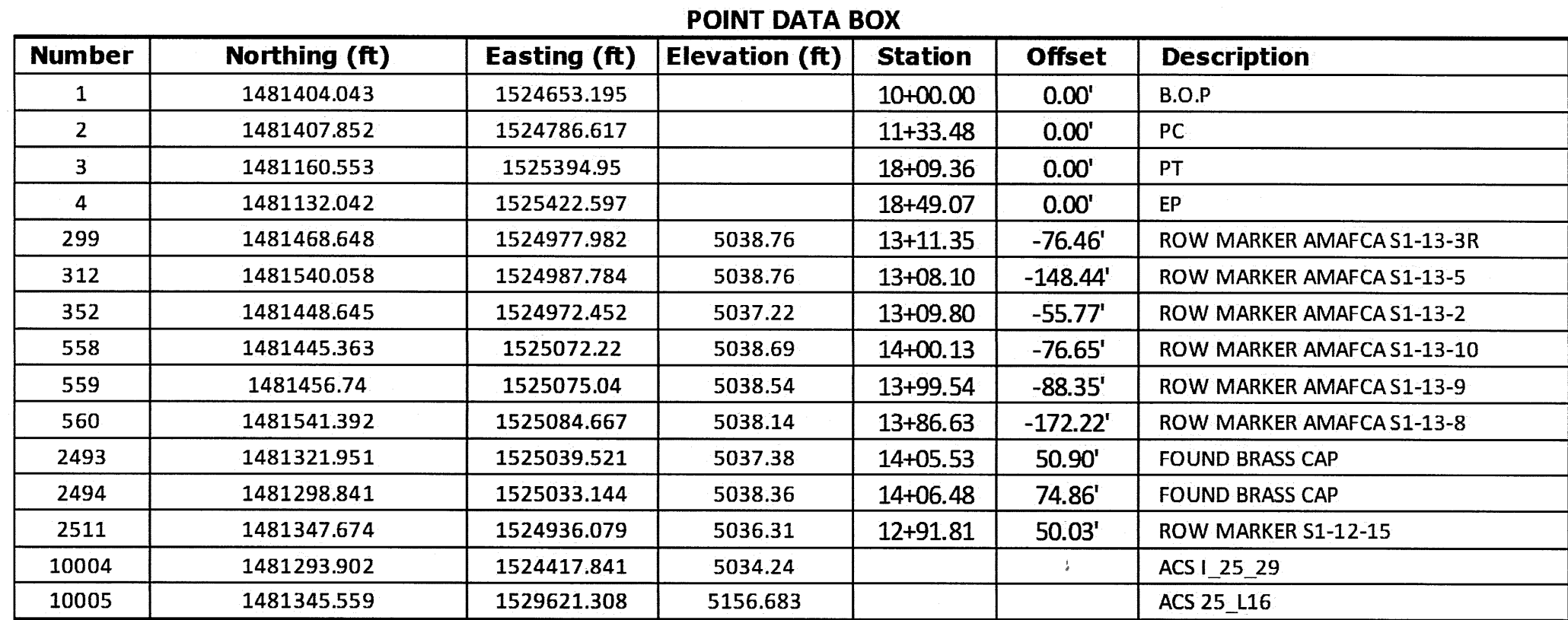
GENERAL NOTES:

1. SEE SHEET 7 FOR ADDITIONAL TEMPORARY CONSTRUCTION QUANTITY DETAILS.



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|-----------------------------|------|---|------|--------------------|----|---|---|
| AS BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
| CONTRACTOR | DATE | ALBUQUERQUE GRS BENCHMARK "25.116" | DATE | NO. | BY |  | DESIGNED BY: PB DRAWN BY: PB CHECKED BY: PB |
| WORK STARTED BY | DATE | 1 3/4" METALLIC DISC | DATE | | | | |
| INSPECTOR'S FIELD CHANGE BY | DATE | STATION IS LOCATED AT THE INTERSECTION OF YALE BLVD., AVENDIA CESAR CHAVEZ AND SANTA CLARA AVE. | | | | | |
| VERIFICATION BY | DATE | | | | | | |
| CORRECTED BY | DATE | | | | | | |
| MICRO-FILM INFORMATION | | | | | | | |
| RECORDED BY | DATE | | | | | | |
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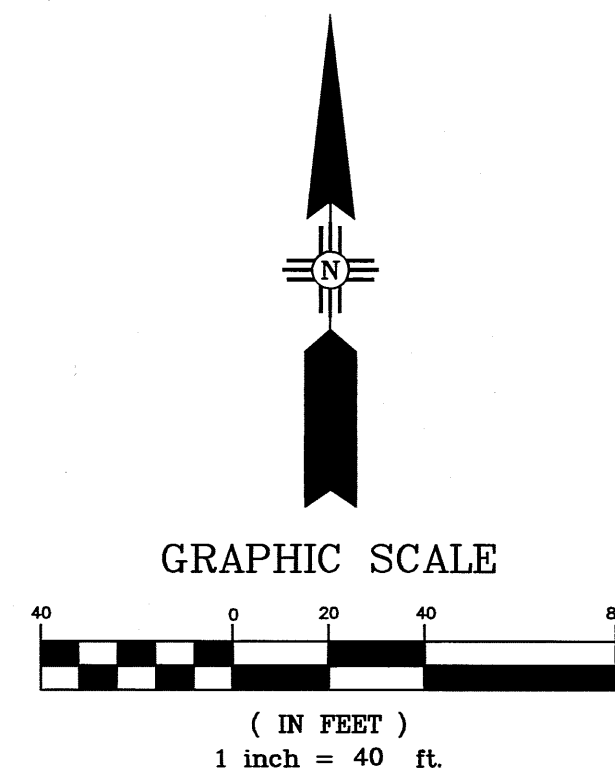
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|  CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN | | | |
| SUMMARY OF QUANTITIES | | | |
| DESIGN REVIEW COMMITTEE APPROVE SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVE SEP 10 2014 CITY ENGINEER | MO./DAY/YR. | MO./DAY/YR. |
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| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 4 OF 32 | |


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ALL BEARINGS ARE GRID BEARINGS: N.M. STATE PLANE COORDINATES, CENTRAL ZONE-NAD 1983. GPS CALIBRATION IS BASED ON AGRS MONUMENTS 1_25_29, SDC_14_15, 25_L16, 7_L15 AND G_10, AVERAGE PROJECT GROUND TO GRID SCALE FACTOR=0.999677382. THE ELEVATION DATUM IS BASED ON NAVD 1988, FROM ARGS MONUMENT "25_L16", PUBLISHED ELEVATION (FEET) =5156.683. ALL DISTANCES ARE GROUND DISTANCES IN U.S. SURVEY FEET.

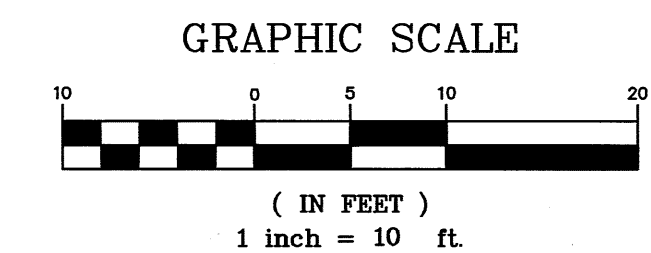
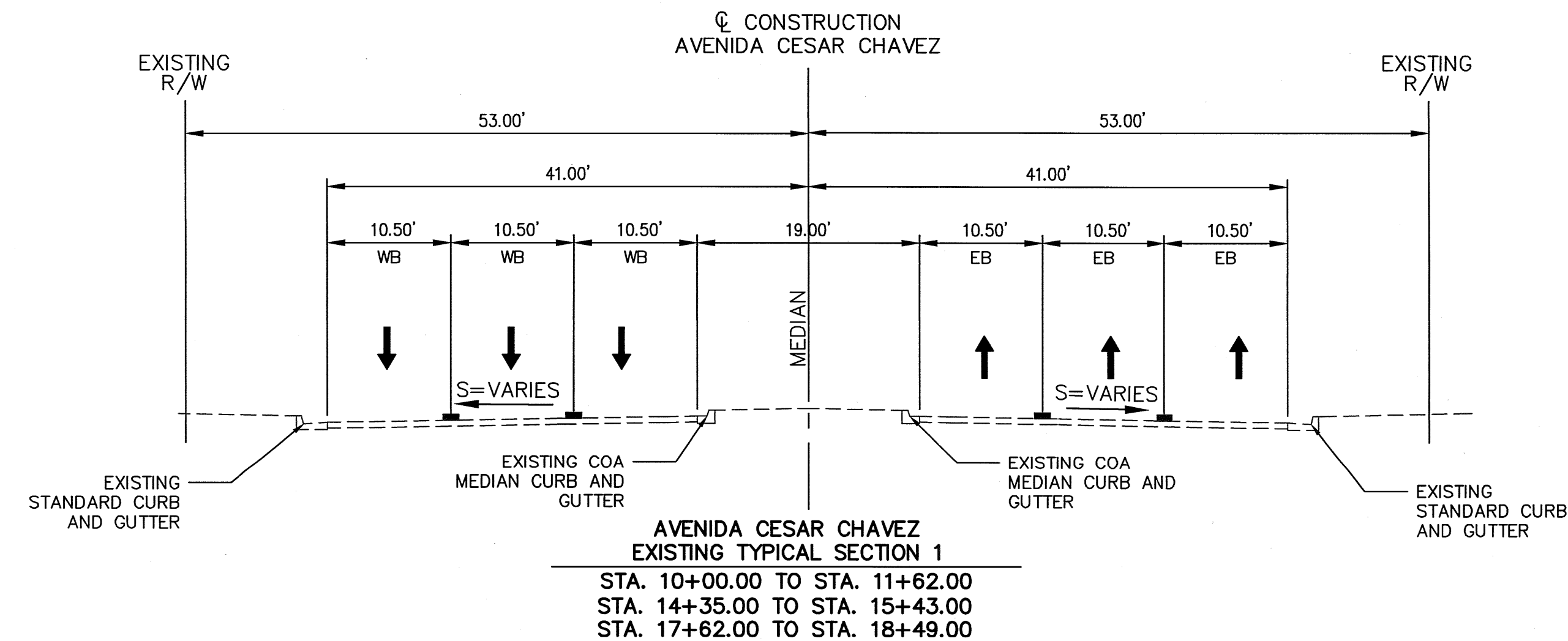
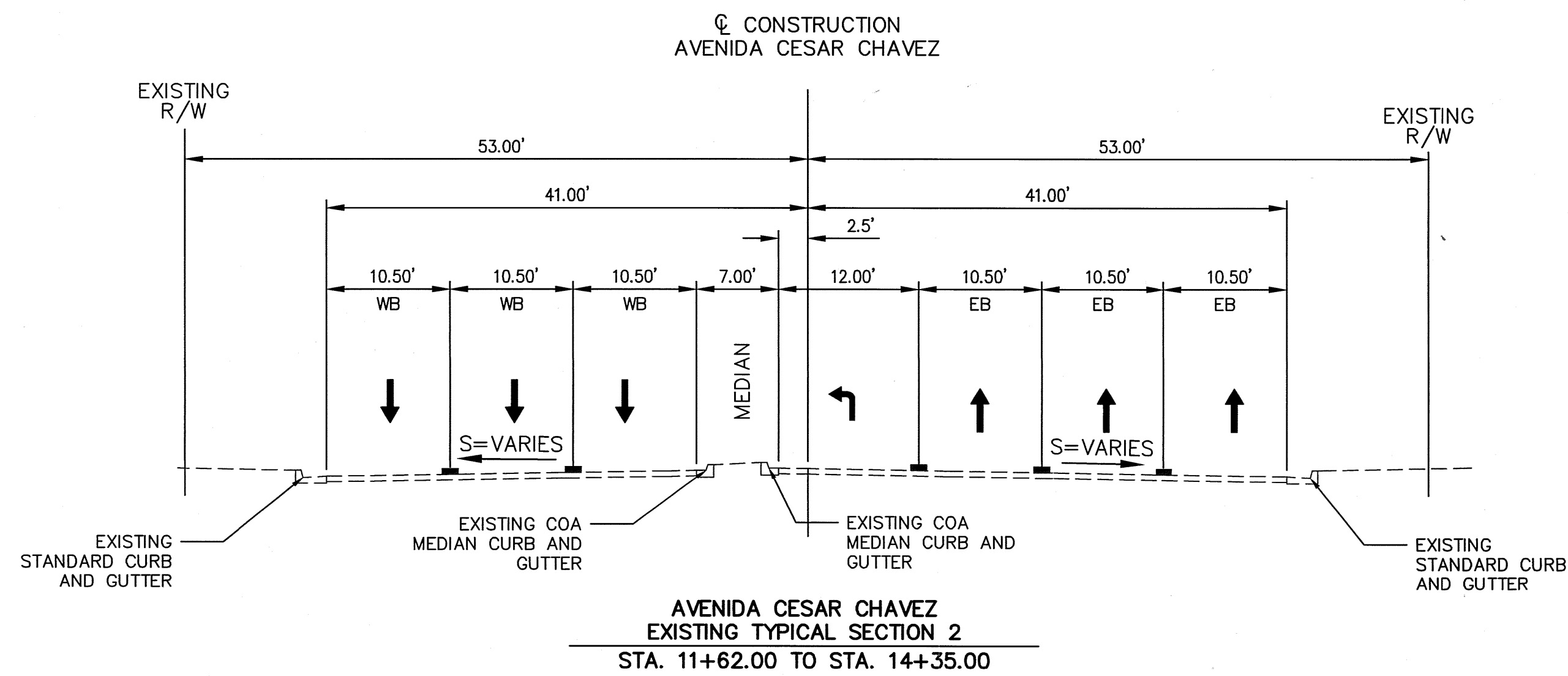
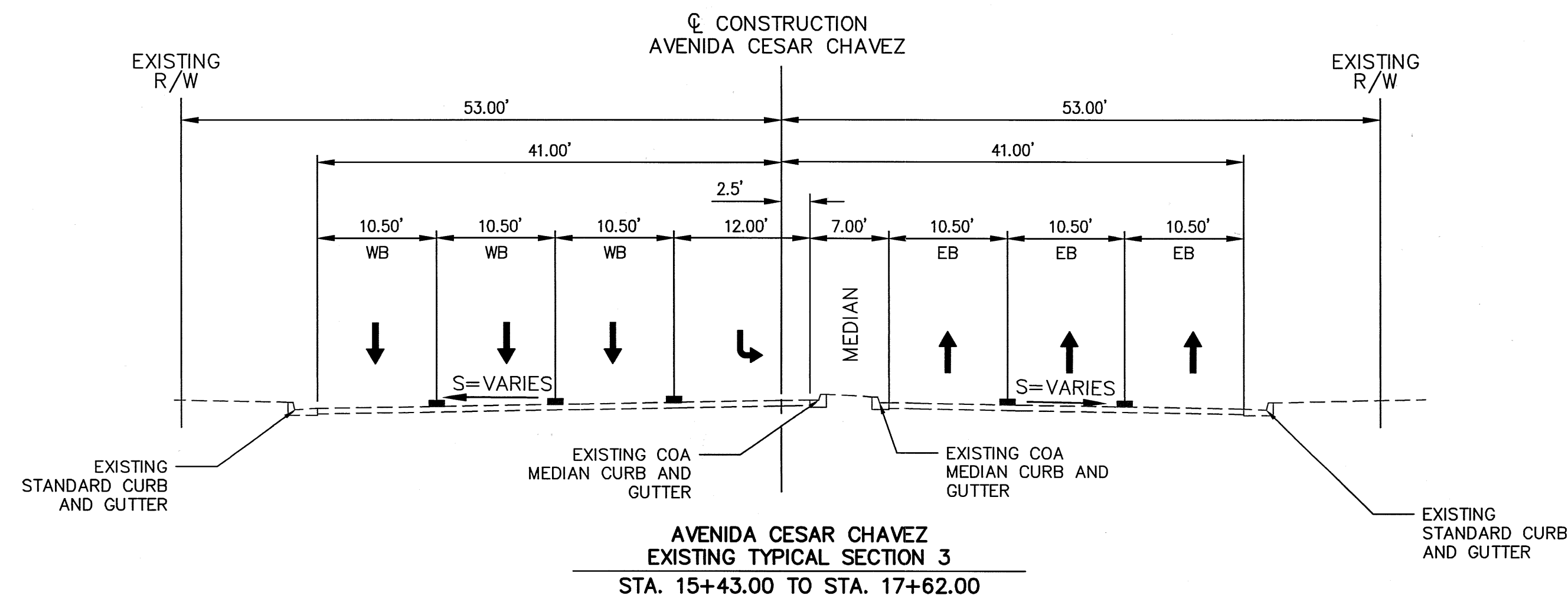
 DENOTES CITY OF ALBUQUERQUE GPS MONUMENT
 DENOTES FOUND AMAFCA RIGHT-OF-WAY MONUMENT



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|  | CITY OF ALBUQUERQUE | | | | | | | | | | | | | | |
| | DEPARTMENT OF MUNICIPAL DEVELOPMENT | | | | | | | | | | | | | | |
| | ENGINEERING DIVISION | | | | | | | | | | | | | | |
| AVENIDA CESAR CHAVEZ INLET DESIGN | | | | | | | | | | | | | | | |
| HORIZONTAL LAYOUT AND SURVEY CONTROL | | | | | | | | | | | | | | | |
| DESIGN REVIEW COMMITTEE <div style="border: 1px solid black; padding: 5px; text-align: center;"> APPROVED SEP 10 2014 DESIGN REVIEW COMMITTEE </div> | CITY ENGINEER APPROVAL <div style="border: 1px solid black; padding: 5px; text-align: center;"> APPROVED SEP 10 2014 CITY ENGINEER </div> | MO./DAY/YR. <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table> | | | | | | | MO./DAY/YR. <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table> | | | | | | |
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| City Project No. COA 5015.07 | | Zone Map No. L15 | Sheet 5 OF 32 | | | | | | | | | | | | |

| ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS BUILT INFORMATION | |
|-----------------|--|--------------------|------|---|--|--------------------------|--|
| | | FIELD NOTES | | | | | |
| | | NO. | DATE | | | | |
| | | | | ALBUQUERQUE GRS BENCHMARK "25 L16" | | CONTRACTOR | |
| | | | | 1 3/4" METALLIC DISC | | WORK STARTED BY | |
| | | | | STATION IS LOCATED AT THE INTERSECTION OF | | ACCEPTANCE BY | |
| | | | | OF YALE BLVD., AVENIDA CESAR CHAVEZ | | DATE | |
| | | | | AND SANTA CLARA AVE. | | FIELD COLLECTION BY | |
| | | | | NAVD 1988 ELEV. = 5156.683 | | DATE | |
| | | | | | | DRAWINGS CORRECTED BY | |
| | | | | | | DATE | |
| | | | | | | RECORDED BY | |
| | | | | | | DATE | |
| | | | | | | NO. | |

| DESIGN | |
|-----------------|-----------|
| DESIGNED BY: PB | DATE 8/14 |
| DRAWN BY: PB | DATE 8/14 |
| CHECKED BY: PB | DATE 8/14 |



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| ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS BUILT INFORMATION | |
|-----------------|-----------|--------------------|-----|-------------|---|----------------------|------|
| NO. | DATE | BY | NO. | DATE | ALBUQUERQUE GRS BENCHMARK "25.116" | CONTRACTOR | DATE |
| | | | | | | | |
| REMARKS | DATE | BY | NO. | DATE | STATION IS LOCATED AT THE INTERSECTION OF YALE BLVD., AVENIDA CESAR CHAVEZ AND SANTA CLARA AVE. | WORK STARTED BY | DATE |
| | | | | | | | |
| DESIGN | DATE | BY | NO. | DATE | NAVD 1988 ELEV. = 5156.683 | INSPECTED BY | DATE |
| | | | | | | | |
| DESIGNED BY: PB | DATE 8/14 | BY | NO. | DATE | MICRO-FILM INFORMATION | RECORDED BY | DATE |
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| DRAWN BY: PB | DATE 8/14 | BY | NO. | DATE | | | |
| | | | | | | | |
| CHECKED BY: PB | DATE 8/14 | BY | NO. | DATE | | | |
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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | |
| AVENIDA CESAR CHAVEZ INLET DESIGN | |
| EXISTING ROADWAY TYPICAL SECTION | |
| DESIGN REVIEW COMMITTEE APPROVED SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVED SEP 10 2014 CITY ENGINEER |
| City Project No. COA 5015.07 | Zone Map No. L15 |
| Sheet 6 OF 32 | |

SUGGESTED CONSTRUCTION SEQUENCING:

THIS SUGGESTED TRAFFIC CONTROL SEQUENCING IS FOR THE CONTRACTORS INFORMATION ONLY. THE CONTRACTOR IS REQUIRED TO DEVELOP DETAILED TRAFFIC CONTROL PLANS FOR THIS PROJECT THAT ARE APPROVED BY THE CITY.

STAGE 1: REMOVE MEDIAN NOSE FROM STATION 12+08 TO STATION 14+35 AND REPLACE WITH TEMPORARY PAVEMENT SECTION.

STAGE 2: CLOSE EASTBOUND AVENIDA CESAR CHAVEZ FROM STATION 12+90 TO STATION 14+50 AND DETOUR TRAFFIC ONTO WESTBOUND AVENIDA CESAR CHAVEZ. CONSTRUCT NEW BRIDGE DECK, BARRIER RAILING, GUARD RAIL, STORM DRAIN, MANHOLE, CHANNEL OUTFALL, AND DRAINAGE INLETS ALONG THE NORTH CURB LINE. ALLOW A MINIMUM OF 1-LANE OF TRAFFIC TO REMAIN OPEN IN EACH DIRECTION (EASTBOUND AND WESTBOUND) DURING CONSTRUCTION.

STAGE 3: CLOSE WESTBOUND AVENIDA CESAR CHAVEZ FROM STATION 13+20 TO STATION 14+50 AND DETOUR TRAFFIC ONTO EASTBOUND AVENIDA CESAR CHAVEZ. CONSTRUCT NEW BRIDGE DECK, BARRIER RAILING, GUARD RAIL, STORM DRAIN, MANHOLE, CHANNEL OUTFALL, AND DRAINAGE INLETS ALONG THE NORTH CURB LINE. ALLOW A MINIMUM OF 1-LANE OF TRAFFIC TO REMAIN OPEN IN EACH DIRECTION (EASTBOUND AND WESTBOUND) DURING CONSTRUCTION.

STAGE 5: REMOVE TEMPORARY ROADWAY ASPHALT AND REPLACE EXISTING MEDIAN CURB AND GUTTER, MEDIAN PAVEMENT, UTILITIES, SIGNING, AND LANDSCAPING.

TRAFFIC CONTROL NOTES:

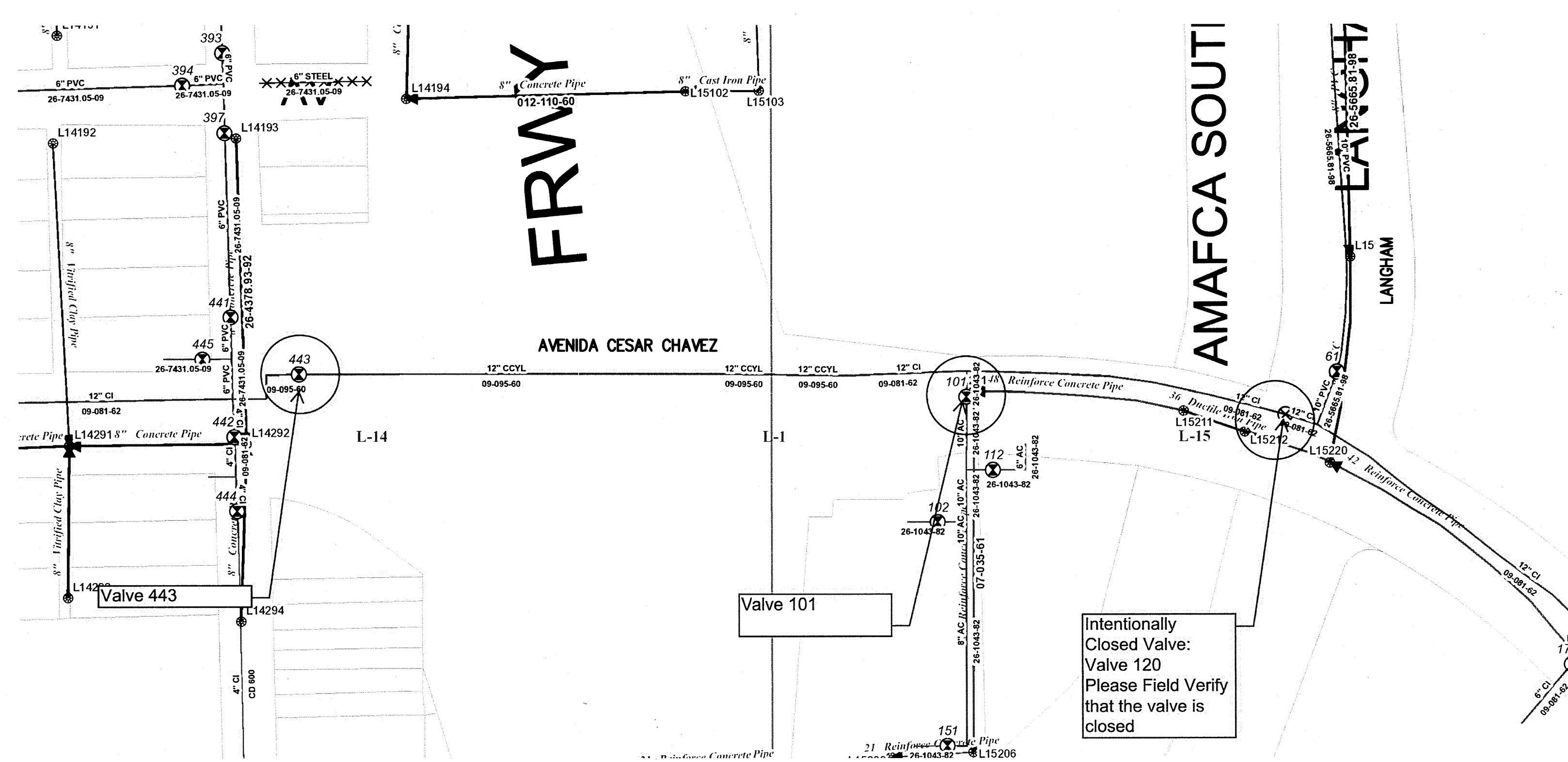
- IT IS ANTICIPATED THAT THE REMOVAL OF MEDIAN PAVEMENT AND MEDIAN CURB AND GUTTER WILL BE REQUIRED TO CONSTRUCT THE TEMPORARY ASPHALT FOR MEDIAN CROSSOVERS FOR THE CONSTRUCTION OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MATCH THE EXISTING VERTICAL AND HORIZONTAL GEOMETRY OF THE ROADWAY AND TO REPLACE ALL REMOVALS IN KIND. THE ESTIMATED QUANTITIES ARE SUMMARIZED IN THE TABLES SHOWN ON THIS SHEET. THE CONTRACTOR SHALL BE PAID FOR THE ACTUAL QUANTITIES USED.
- IT IS ANTICIPATED THAT THERE WILL BE NO IMPACTS TO THE EXISTING LANDSCAPING AND IRRIGATION SYSTEM. IF THERE ARE DAMAGES TO THE EXISTING LANDSCAPING AND/OR IRRIGATION SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SALVAGE AND/OR REPLACE THE LANDSCAPING OR IRRIGATION EQUIPMENT IN KIND TO THE SATISFACTION OF THE CITY OF ALBUQUERQUE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- REMOVE AND REPLACE EXISTING STRIPING IN KIND AS NEEDED FOR PAVEMENT REPLACEMENT AND TRAFFIC CONTROL. THE ESTIMATED QUANTITIES ARE SUMMARIZED IN THE TABLES SHOWN ON THIS SHEET. THE CONTRACTOR SHALL BE PAID FOR THE ACTUAL QUANTITIES USED.
- THE CONTRACTOR SHALL DESIGN MEASURES TO MAINTAIN THE WORK ZONE AND TRAVEL LANES IN A SAFE CONDITION PER OSHA, CITY OF ALBUQUERQUE, AND NMDOT STANDARDS AS APPLICABLE, AND SHALL NOT DISTURB OR UNDERMINE THE ADJACENT EXISTING/DETOUR ROADWAY DURING CONSTRUCTION. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO TEMPORARY SHORING AND ANCHORING WALL BARRIERS. THE COST OF THESE MEASURES, INCLUDING DESIGN AND OBTAINING ANY APPROVALS REQUIRED, SHALL BE INCIDENTAL TO CONSTRUCTION.

| TEMPORARY CONSTRUCTION QUANTITIES | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---------------------|------------------------------------|---------|--------|--------|--|--------------|--|--------------|---|---------------|--|----------------|---|--------------|---|----------------|---|------|---|--|
| LOCATION | DIRECT. / OFFSET | DESCRIPTION | STATION | | LENGTH | 302.0XX | | 336.022 | | 340.060 | | 340.000 | | 343.080 | | 343.085 | | 443.101 | | 441.007 | |
| | | | | | | 8" Scarified and Compacted Subgrade, 95% Minimum Compaction per | | Asphalt Concrete, 2 Inch thick, Superpave | | Curb & Gutter, Median, Portland Cement Concrete, cip. SD 2408 | | 4" Median Pavement, Portland Cement Concrete, Ind. subgrade compaction, cip. | | Existing Curb & Gutter or Valley Gutter, PC Concrete , remove & dispose, compl. | | Existing Sidewalk, 4" PC Concrete, remove & dispose | | Removal of Pavement Stripes, any width, painted or plastic, compl. | | Temporary ReflectORIZED plastic pavement markings, 4" width, Ind. removal & disposal, cip. | |
| | | | | | | WIDTH (FT) | AREA (SY) | WIDTH (FT) | AREA (SY) | LENGTH (FT) | WIDTH (FT) | AREA (SY) | LENGTH (FT) | WIDTH (FT) | AREA (SY) | LENGTH (FT) | LENGTH (FT) | | | | |
| REMOVALS | | | | | | | | | | | | | | | | | | | | | |
| EASTBOUND AVENIDA CESAR CHAVEZ | | MEDIAN CURB AND GUTTER REMOVAL | 12+08. | 14+35. | 227 | | | | | | | | | 227 | | | | | | | |
| WESTBOUND AVENIDA CESAR CHAVEZ | | MEDIAN CURB AND GUTTER REMOVAL | 12+08. | 14+35. | 227 | | | | | | | | | 227 | | | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | MEDIAN PAVEMENT REMOVAL | 12+08. | 13+43. | 135 | | | | | | | | | | 5 | 75 | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | MEDIAN PAVEMENT REMOVAL | 13+67. | 14+35. | 68 | | | | | | | | | | 5 | 38 | | | | | |
| EASTBOUND AVENIDA CESAR CHAVEZ | | STRIPING REMOVAL | 12+08. | 15+41. | 333 | | | | | | | | | | | | | 367 | | | |
| WESTBOUND AVENIDA CESAR CHAVEZ | | STRIPING REMOVAL | 12+08. | 15+41. | 333 | | | | | | | | | | | | | 342 | | | |
| REPLACEMENT | | | | | | | | | | | | | | | | | | | | | |
| EASTBOUND AVENIDA CESAR CHAVEZ | | MEDIAN CURB AND GUTTER REPLACEMENT | 12+08. | 14+35. | 227 | | | | | | 227 | | | | | | | | | | |
| WESTBOUND AVENIDA CESAR CHAVEZ | | MEDIAN CURB AND GUTTER REPLACEMENT | 12+08. | 14+35. | 227 | | | | | | 227 | | | | | | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | MEDIAN PAVEMENT REPLACEMENT | 12+08. | 13+43. | 135 | | | | | | | | 5 | 75 | | | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | MEDIAN PAVEMENT REPLACEMENT | 13+67. | 14+35. | 68 | | | | | | | 5 | 38 | | | | | | | | |
| EASTBOUND AVENIDA CESAR CHAVEZ | | STRIPING REPLACEMENT | 12+08. | 15+41. | 333 | | | | | | | | | | | | | | | 1998 | |
| WESTBOUND AVENIDA CESAR CHAVEZ | | STRIPING REPLACEMENT | 12+08. | 15+41. | 333 | | | | | | | | | | | | | | | 1998 | |
| TEMPORARY PAVEMENT | | | | | | | | | | | | | | | | | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | TEMPORARY PAVEMENT PLACEMENT | 12+08. | 13+43. | 135 | 8 | 120 | 8 | 240 | | | | | | | | | | | | |
| AVENIDA CESAR CHAVEZ MEDIAN | | TEMPORARY PAVEMENT PLACEMENT | 13+67. | 14+35. | 68 | 8 | 60 | 8 | 121 | | | | | | | | | | | | |
| TOTAL | | | | | | | 180 | | 361 | 454 | | 113 | 454 | | 113 | | 709 | | 3896 | | |
| USE | | | | | | | 180 | | 370 | 460 | | 120 | 460 | | 120 | | 710 | | 4000 | | |

*FOR CONTRACTORS INFORMATION ONLY

** SEE CITY OF ALBUQUERQUE STANDARD DWG 2415B FOR THE TEMPORARY PAVEMENT SECTION FOR AN ARTERIAL STREET

WATER VALVE SHUTOFF PLAN
NTS

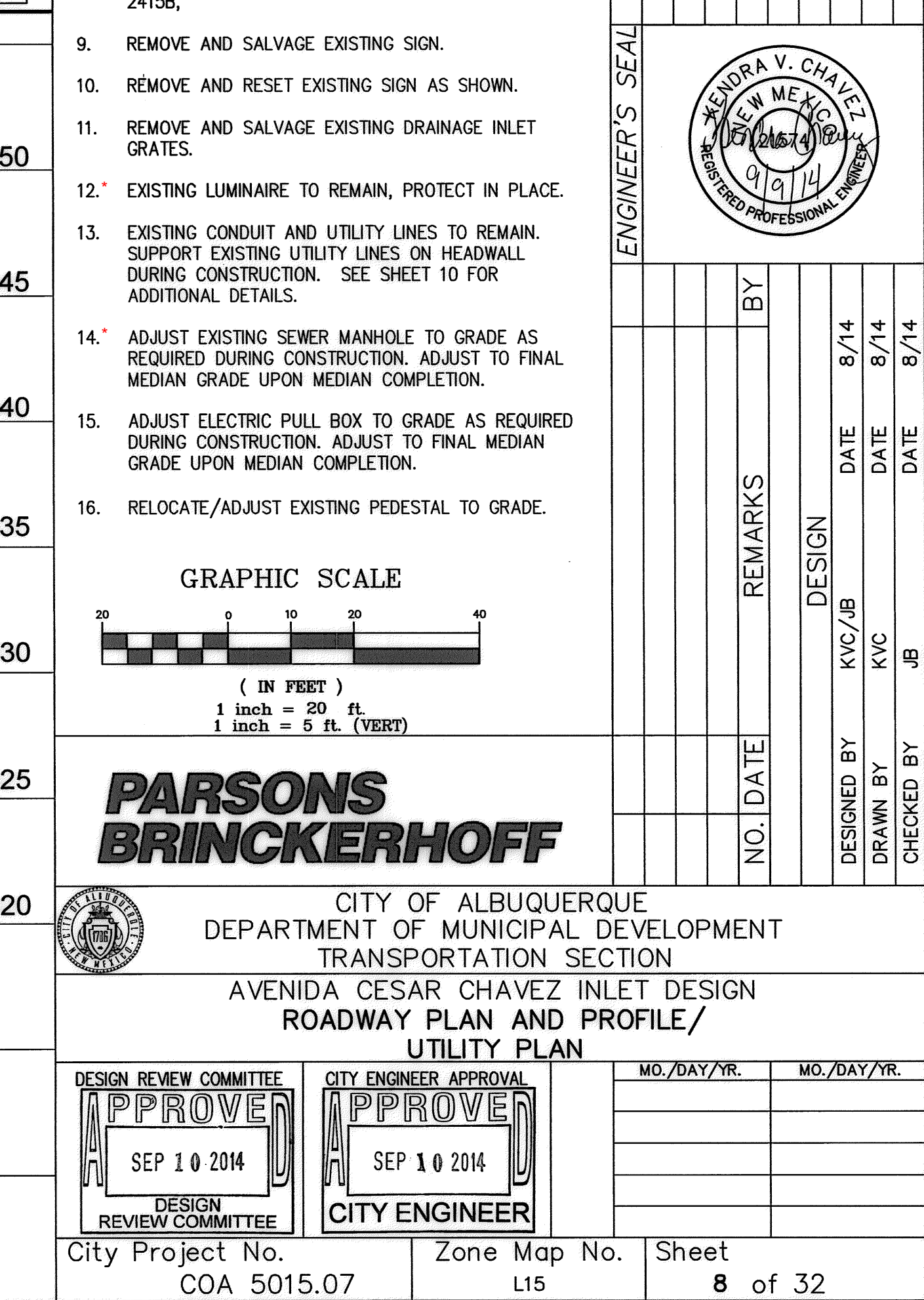
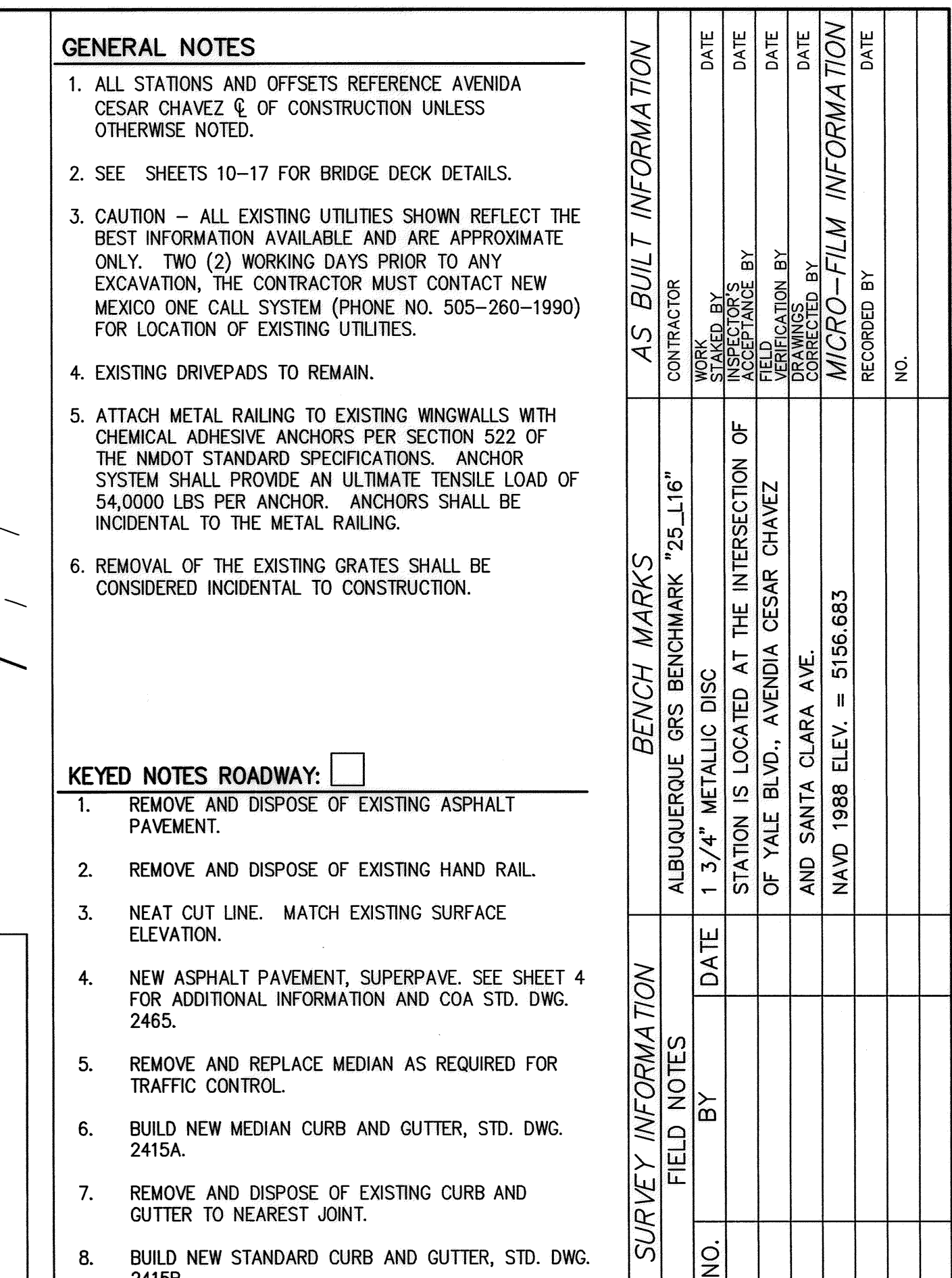


WATER SHUT-OFF PLAN NOTE:

THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX](http://www.abcwua.org/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX)

**PARSONS
BRINCKERHOFF**

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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | |
| AVENIDA CESAR CHAVEZ INLET DESIGN SUGGESTED CONSTRUCTION SEQUENCING AND WATER VALVE SHUTOFF PLAN | | | |
| DESIGN REVIEW COMMITTEE APPROVE SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVE SEP 10 2014 CITY ENGINEER | MO./DAY/YR. | MO./DAY/YR. |
| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 7 OF 32 | |



1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION 2014 EDITION.
2. SUPERSTRUCTURE CONCRETE SHALL BE CLASS AA AND SUBSTRUCTURE CONCRETE SHALL BE CLASS A. CHAMFER ALL EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED. ALL CONCRETE MIX DESIGNS SHALL BE ADJUSTED TO MEET THE LEVEL OF MEDIUM-RISK ZONE AS SPECIFIED IN SUBSECTION 509.2.8.2 (FREEZE–THAW RISK ZONES). CONCRETE PLACED DURING COLD WEATHER SHALL CONFORM TO SUBSECTION 511.3.3.1 (COLD WEATHER CONCRETE).
3. REINFORCEMENT BARS. SUPERSTRUCTURE REINFORCEMENT SHALL BE EPOXY COATED GRADE 60. SUBSTRUCTURE REINFORCEMENT SHALL BE GRADE 60. DIMENSIONS SHOWN REFER TO CENTERLINES OF BARS UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE STORED ABOVE GROUND ON PLATFORM SKIDS OR OTHER SUPPORTS. REINFORCING SHALL BE KEPT FREE FROM DIRT, GREASE, AND OTHER FOREIGN MATTER. REINFORCING SHALL BE KEPT FREE OF CORROSION AS FAR AS PRACTICAL.
4. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, ELEVATIONS AND DETAILS WHICH WILL BE INVOLVED IN THE NEW CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
5. FALSEWORK AND FALSEWORK FOUNDATIONS SHALL CONFORM TO SECTION 511.3 CONSTRUCTION REQUIREMENTS, OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION. DESIGN SHALL BE SUBMITTED TO THE CITY P.M. FOR APPROVAL.
6. EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATIONS OF ALL EXISTING UTILITIES, CABLES, PIPES, OR CONDUITS WHICH MUST BE RELOCATED OR PROTECTED FROM DAMAGE BEFORE PROCEEDING WITH THE WORK. FOR UTILITIES MOUNTED ON THE EXISTING WINGWALLS AND UNDERNEATH THE SOUTH SIDEWALK, TEMPORARILY SUPPORT THE UTILITIES DURING CONSTRUCTION BY A METHOD APPROVED BY THE PROJECT MANAGER. NO DISRUPTION TO THE UTILITY SERVICES ARE PERMITTED. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL REATTACH THE UTILITIES MOUNTED ON THE EXISTING WINGWALLS IN THEIR ORIGINAL LOCATION AND POSITION. FASTENERS, CLAMPS, AND OTHER ATTACHMENT HARDWARE, SHALL BE REPLACED IN–KIND AND SHALL NOT BE REUSED. THIS WORK SHALL BE INCIDENTAL TO COMPLETION OF THE PROJECT.
7. PENETRATING WATER REPELLANT TREATMENT SHALL BE APPLIED TO ALL EXPOSED NEW AND EXISTING CONCRETE SURFACES. TREATMENT SHALL EXTEND 1'–0" BELOW FINISHED GRADE, WHERE APPLICABLE.
8. POLYMER CONCRETE DECK OVERLAY (EPOXY URETHANE) SHALL BE APPLIED TO THE EXPOSED PRECAST AND CAST–IN–PLACE CONCRETE DRIVING SURFACES. THE POLYMER CONCRETE DECK OVERLAY SHALL CONFORM TO SECTION 536 "POLYMER CONCRETE BRIDGE DECK OVERLAY" OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION.
9. PREFORMED CLOSED CELL FOAM BRIDGE JOINT SEALS OR EQUIVALENT SYSTEMS REQUIRE THE INSTALLER TO BE CERTIFIED PRIOR TO INSTALLATION. THE COST OF OBTAINING THE REQUIRED CERTIFICATION SHALL BE INCIDENTAL TO COMPLETION OF THE PROJECT.
10. THE EXTRUDED POLYSTYRENE SHALL HAVE A COMPRESSIVE STRENGTH OF 25 PSI. THE EXTRUDED POLYSTYRENE SHALL BE DOW STYROFOAM SQUARE EDGE EXTRUDED POLYSTYRENE INSULATION, OWENS CORNING FOAMULAR 250 RIGID FOAM INSULATION OR APPROVED EQUAL. THE EXTRUDED POLYSTYRENE IS INCIDENTAL TO THE COMPLETION OF THE PROJECT.
11. EXISTING BRIDGE REMOVAL. SALVAGE AND RETURN GRATES TO STORM MAINTENANCE DEPARTMENT AT 9805 CENTRAL AVE. NE.. ALL MATERIAL FROM THE EXISTING STRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. PAYMENT FOR REMOVAL SHALL BE INCLUDED IN "ITEM 601000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS." THE APPLICABLE PORTIONS OF THE BRIDGE SHALL BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 601 (REMOVAL OF STRUCTURES AND OBSTRUCTIONS), IN AN ENVIRONMENTALLY RESPONSIBLE MANNER AND IN CONFORMANCE WITH ALL LOCAL AND FEDERAL REGULATIONS.
12. THE EXISTING BRIDGE, WAS BUILT UNDER THE PROJECT "SOUTH DIVERSION CHANNEL, STADIUM BLVD. STRUCTURE". PRINTS OF AS–BUILT PLANS SHOWING THE EXISTING STRUCTURE MAY BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF ALBUQUERQUE.

1. REMOVE EXISTING STEEL DECK AND GIRDERS.
2. REMOVE EXISTING PEDESTRIAN RAILING, TO BE REPLACED WITH NMDOT METAL
3. REMOVE AND REMODEL EXISTING ABUTMENT SEATS AS DETAILED.
4. REPAIR SUBSTRUCTURE CONCRETE BY THE METHOD OF CONCRETE REPAIR.
5. PLACE NEW PRECAST AND CAST-IN-PLACE CONCRETE.
6. APPLY INJECT CRACKS IN EXISTING STRUCTURE AND WINGWALLS.
7. APPLY WATER REPELLANT TREATMENT TO ALL EXPOSED CONCRETE SURFACES.

| | |
|--|---|
| <u>DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 17TH EDITION.</u> | |
| DESIGN STRESSES: | STRUCTURAL STEEL—AASHTO M270, GRADE 36 $F_y = 36$ ksi GRADE 50 $F_y = 50$ ksi |
| <u>REINFORCED CONCRETE:</u> | |
| SUPERSTRUCTURE: | $f'_c = 4000$ psi @ 28 DAYS $f_y = 60$ ksi GRADE 60 |
| SUBSTRUCTURE: | $f'_c = 3000$ psi @ 28 DAYS $f_y = 60$ ksi GRADE 60 $n = 9$ |
| LIVE LOAD: | HS-20. |
| WEARING SURFACE: | 30 psf ALLOWANCE FOR FUTURE SURFACES. |

| | |
|---|-------------------------|
| EXCAVATION & BACKFILL FOR BRIDGES WALLS & CBC'S | DWG 210-01-1/1 |
| METAL RAILING TYPE "D" | DWG 543-03-1/2 THRU 2/2 |
| PREFORMED CLOSED CELL FOAM BRIDGE JOINT SEALS | DWG 564-01-1/1 |




1. ELASTOMERIC BEARING PADS
2. WATERPROOFING AT ABUTMENT SEATS
3. ALL EXTRUDED POLYSTYRENE BOARD
4. PENETRATING WATER REPELLENT TREATMENT ON NEW CONCRETE
5. VERIFICATION, SUPPORT, AND REATTACHMENT OF EXISTING UTILITIES
6. GALVANIZED STEEL STRIPS AND ANCHORS
7. DRILLING AND ANCHORING DOWEL BARS INTO ABUTMENTS
8. SUBMITTAL OF FALSEWORK DESIGN
9. 4" PVC CONDUIT

1. ~~PLACE PRECAST SLABS AT THE LOCATION AND GRADE SHOWN~~ NOT DONE
2. ~~POST TENSION PRECAST SLABS~~ DUE TO CAST-IN-PLACE OPTION
3. ~~ATTACH DOWELS TO ABUTMENTS~~
4. PLACE C.I.P CONCRETE OUTSIDE SLABS
5. FOLLOWING PLACEMENT OF C.I.P CONCRETE OUTSIDE SLABS, PLACE C.I.P CONCRETE AT C CONSTRUCTION

NOTE: ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. PARAGRAPH 104.1 OF THE NMDS STANDARD SPECIFICATIONS APPLIES. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.

1. SUPERSTRUCTURE CONCRETE SHALL BE CLASS HPD.
2. TRANSVERSE REINFORCING BARS SHALL HAVE LAP SPLICES WHERE NECESSARY WITH A LENGTH OF 2'-6" MINIMUM.
3. THE SURFACE OF THE DECK AND SLEEPERS SHALL BE MACHINE GROOVED PER SECTION 512.3.10.3. NO EPOXY URETHANE POLYMER CONCRETE BRIDGE DECK OVERLAY SHALL BE USED. ADD 3/8" TO THE PROPOSED DECK AND ABUTMENT ELEVATIONS TO ACCOUNT FOR THE DELETION OF THE POLYMER CONCRETE OVERLAY.
4. THE #4DW1 DOWELS AT ABUTMENT 1 SHALL BE CAST INTEGRALLY WITH THE ABUTMENT AND DECK SLAB. THE DOWEL LENGTH SHALL BE 1'-9".
5. THE CONTRACTOR SHALL SUBMIT A DECK PLACEMENT PLAN TO THE PROJECT MANAGER AND ALLOW 5 WORKING DAYS FOR REVIEW. THE PLAN SHALL INCLUDE CLOSURE POURS AND THE LOCATION OF CONSTRUCTION JOINTS. NO JOINTS WILL BE PERMITTED ALONG THE WHEEL PATH.

[illegible]

|  | CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | | | | | | | | | | | | |
|--|---|---------------------|--|-------------|-------------|--|--|--|--|--|--|--|--|--|--|
| | AVENIDA CESAR CHAVEZ INLET DESIGN STRUCTURE GENERAL NOTES | | | | | | | | | | | | | | |
| DESIGN REVIEW COMMITTEE  | CITY ENGINEER APPROVAL  | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">MO./DAY/YR.</th> <th style="width: 50%;">MO./DAY/YR.</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | MO./DAY/YR. | MO./DAY/YR. | | | | | | | | | | |
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| City Project No. COA 5015.07 | | Zone Map No. L15 | Sheet 10 OF 32 | | | | | | | | | | | | |

**PARSONS
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EXISTING TELEPHONE LINE

EASTBOUND TRAVEL LANE
TYP.

AVENIDA
CESAR CHAVEZ

MEDIAN

EXISTING SANITARY
SEWER LINE

EXISTING WATERLINE

2'-7 1/2"
C&G

10'-6"

10'-6"

10'-6"

12'-0"

13+25

7'-0"

10'-6"

10'-6"

10'-6"

2'-7 1/2"
C&G

BACK OF
CURB

STA.: 13+49.22
OFFSET: 43.00 RT
FLOW LINE
EL.: 5036.20

STATION: 13+49.56
OFFSET: 0.00.
TOP OF SLAB
EL.: 5036.89

CAST-IN-PLACE
CONCRETE SLAB

CONSTRUCTION

COLD JOINT
(KEYED)

SLEEPER SLAB

STA.: 13+49.86
OFFSET: 43.00 LT
FLOW LINE
EL.: 5036.49

SECOND POUR

POST TENSIONING ROD, TYP.
SEE NOTES, SHEET 13.

CAST-IN-PLACE
PRECAST
CONCRETE SLABS
TYP.

FIRST POUR

FLOW LINE

A.M.A.F.C.A SOUTH DIVERSION
CHANNEL

STA.: 13+63.65
OFFSET: 43.00 RT
FLOW LINE
EL.: 5036.29

SLEEPER SLAB

STA.: 13+63.23
OFFSET: 0.00
TOP OF SLAB
EL.: 5036.98

STA.: 13+62.85
OFFSET: 43.00 LT.
FLOW LINE
EL.: 5036.58

EXISTING SIDE MOUNTED
CONDUIT

LIP OF CURB

LIP OF CURB

WESTBOUND TRAVEL LANE
TYP.

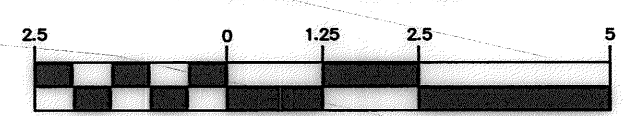
MEDIAN

LIP OF
CURB

BACK OF CURB

PLAN VIEW
SCALE 1"=5'

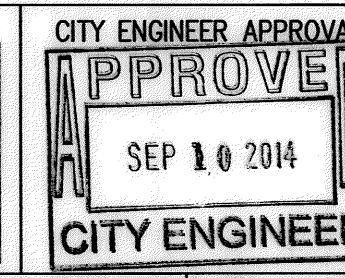
GRAPHIC SCALE



(IN FEET)
1 inch = 5 ft.



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION
AVENIDA CESAR CHAVEZ INLET DESIGN
STRUCTURE PLAN

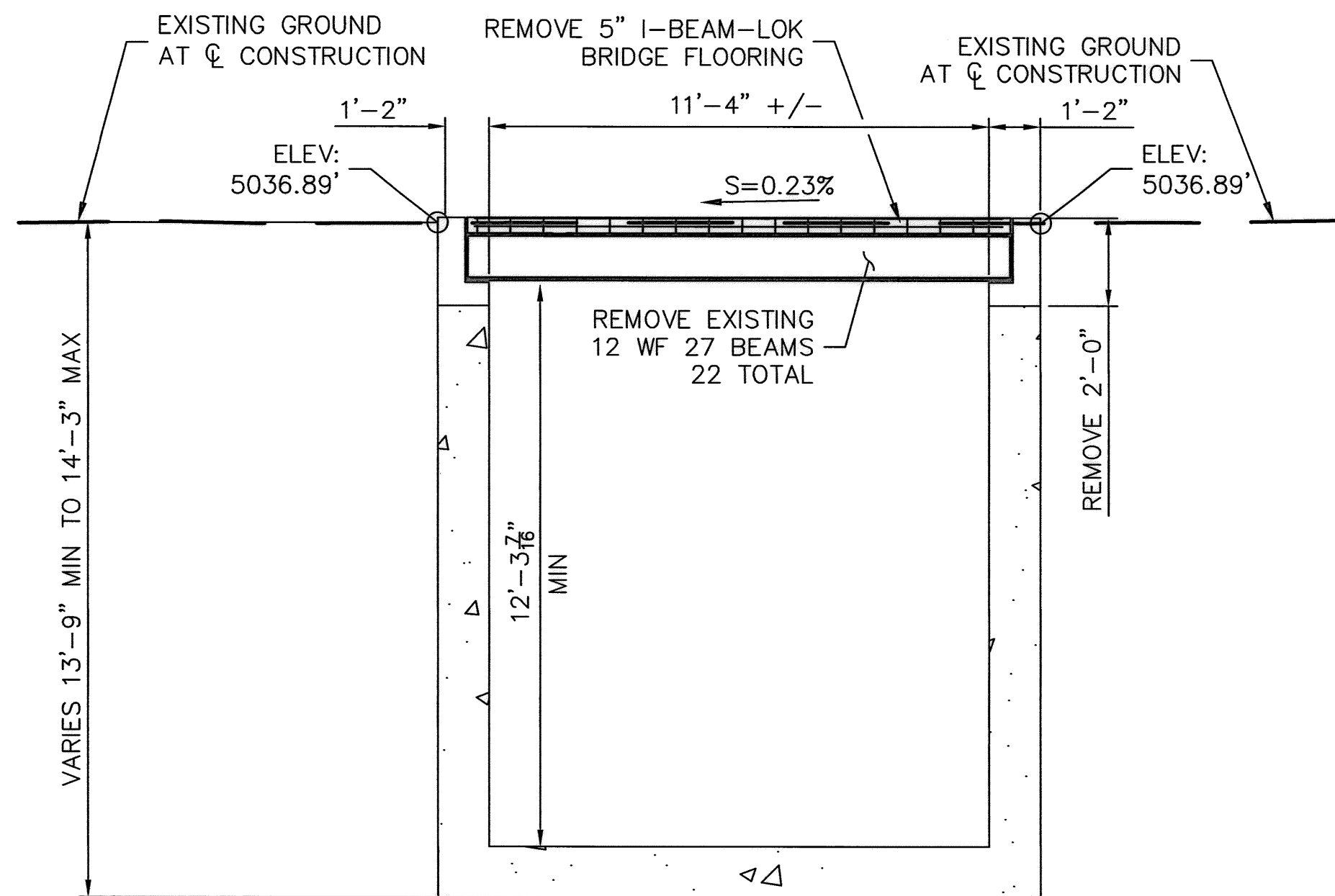


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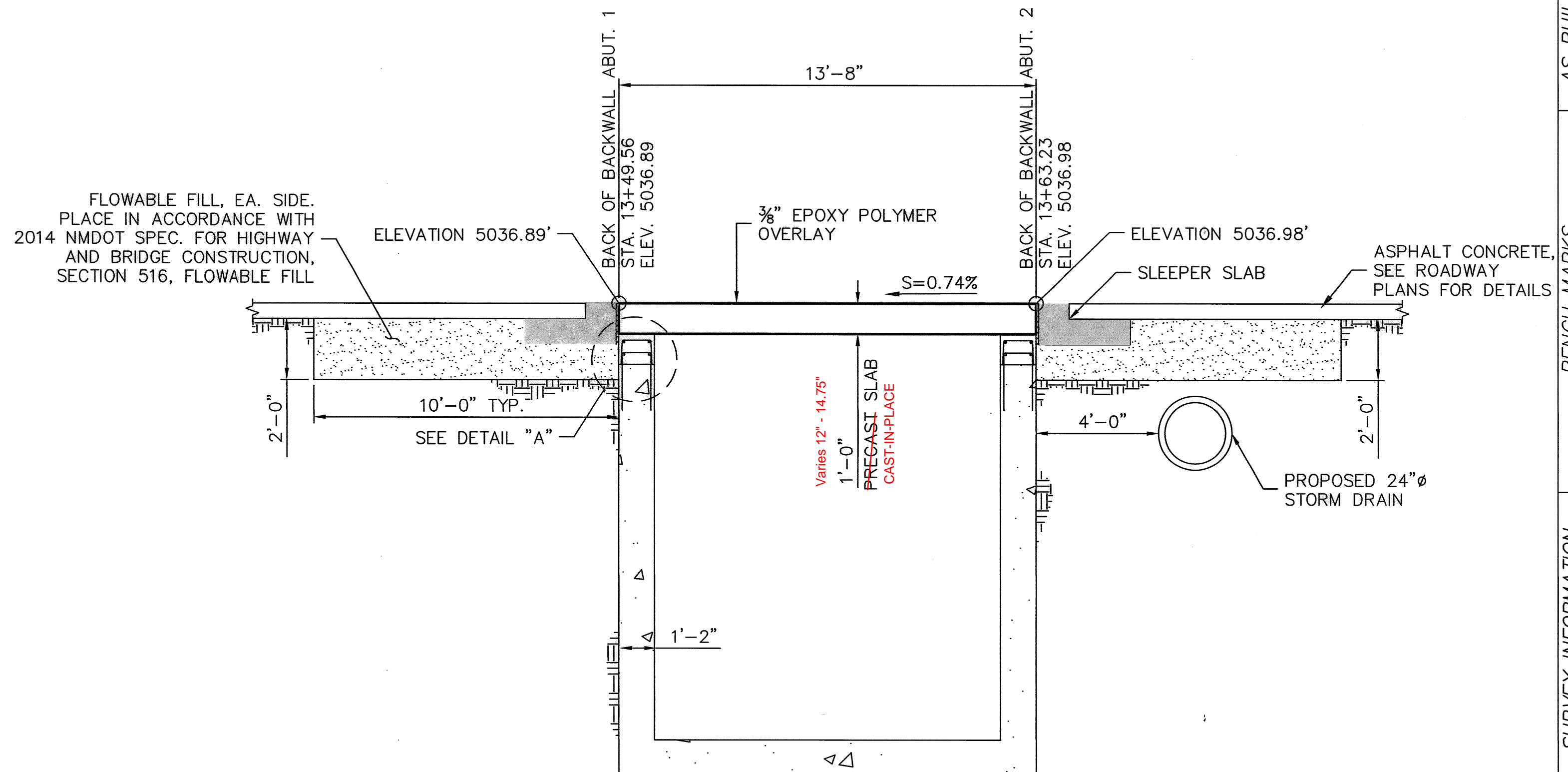
City Project No. COA 5015.07 Zone Map No. L15 Sheet 11 OF 32

**PARSONS
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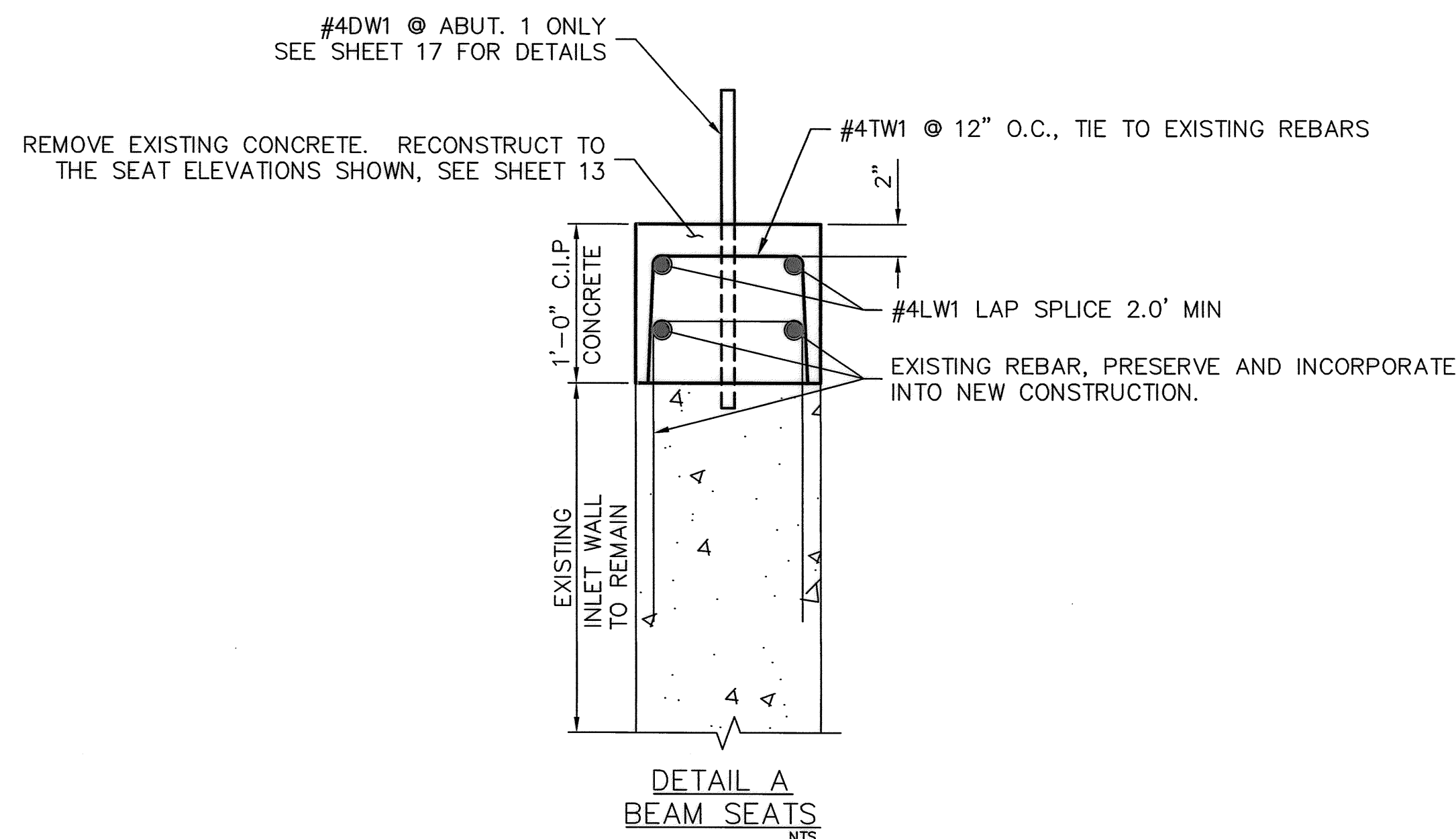
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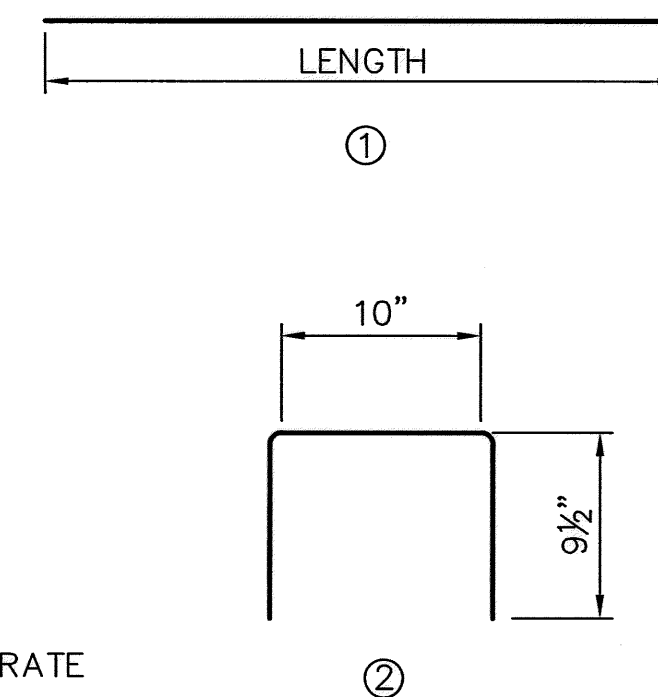
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NOTES:

1. CONCRETE SHALL BE CLASS A. F'c = 3,000 PSI.
2. REBAR SHALL BE GRADE 60.
3. PRIOR TO SLAB PLACEMENT, CONTRACTOR SHALL SUBMIT A COMPRESSIVE STRENGTH TEST REPORT, VERIFYING CONCRETE HAS ACHIEVED FULL STRENGTH.

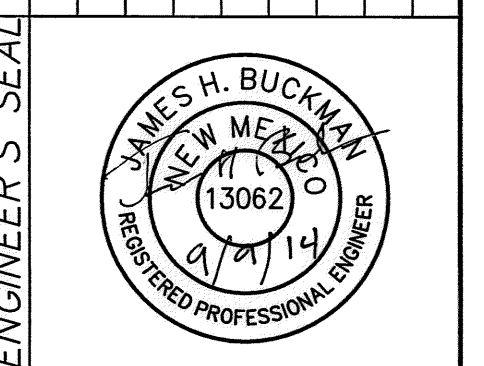
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* CORROSION RESISTANT BARS, PAID AS REGULAR GRADE 60 BAR

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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN STRUCTURE PROFILES | | | |
| DESIGN REVIEW COMMITTEE APPROVE SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVE SEP 10 2014 CITY ENGINEER | MO./DAY/YR. | MO./DAY/YR. |
| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 12 OF 32 | |

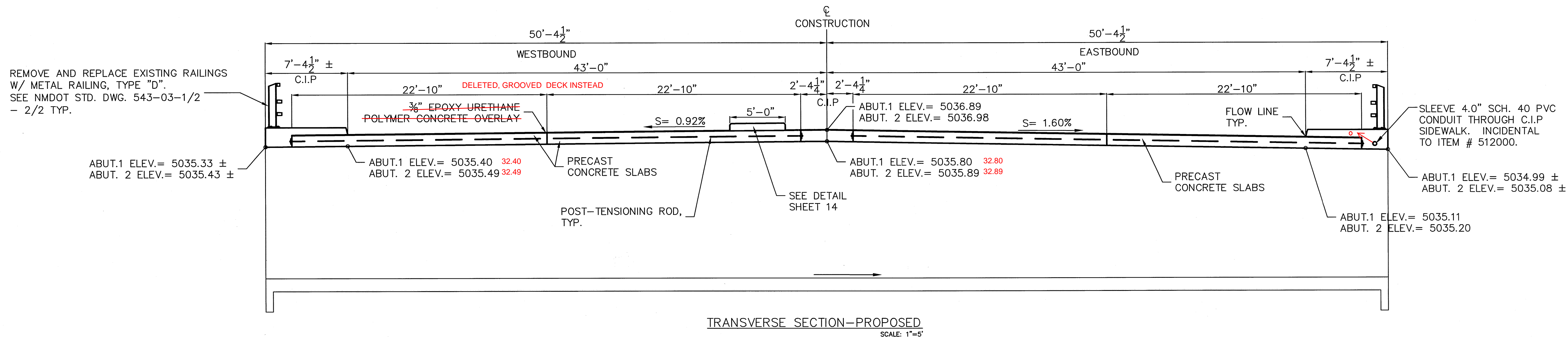
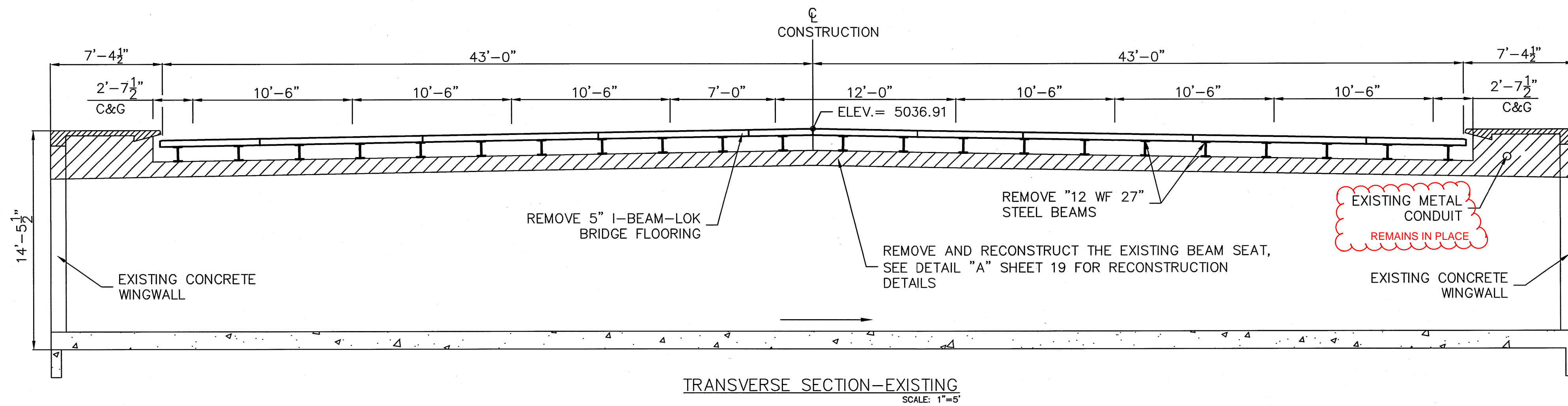
**PARSONS
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| AS BUILT INFORMATION | | | |
|------------------------|-----------------|------|--|
| CONTRACTOR | WORK | DATE | |
| INSPECTOR'S | STAMPED BY | DATE | |
| FIELD | FIELD | DATE | |
| VERIFICATION BY | VERIFICATION BY | DATE | |
| CORRECTED BY | CORRECTED BY | DATE | |
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| SURVEY INFORMATION | |
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| BENCH MARKS | |
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| ALBUQUERQUE GRS BENCHMARK "25-L16" | |
| 1 3/4" METALLIC DISC | |
| STATION IS LOCATED AT THE INTERSECTION OF | |
| OF YALE BLVD., AVENIDA CESAR CHAVEZ | |
| AND SANTA CLARA AVE. | |
| NAVD 1988 ELEV. = 5156.683 | |



POST-TENSIONING NOTES:

1. ~~INSTALL LATERAL POST-TENSIONING RODS AND APPLY TENSION AFTER EACH ADJACENT BEAM IS ERECTED.~~
2. ~~POST-TENSIONING REQUIREMENTS SHOWN ON THESE DRAWINGS ARE BASED ON THE USE OF 150ksi THREADED RODS. IF A DIFFERENT POST-TENSIONING STEEL IS TO BE USED, CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR THE ALTERNATIVE TO THE ENGINEER FOR APPROVAL.~~
3. ~~NO TENSION OR BAR SHALL BE JACKED BEYOND 0.9 x Asfpy~~
4. ~~POST-TENSIONING DUCTS AND KEYS BETWEEN THE BEAMS SHALL BE GROUTED WITH A NON-SHRINK GROUT IN ACCORDANCE WITH THE 2014 NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.~~
5. ~~CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE SEALS BETWEEN THE BEAMS TO PREVENT LEAKAGE DURING THE INJECTION OF THE GROUT AS PER THE 2014 NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.~~
6. ~~PAYMENT FOR THE POST-TENSIONING STEEL, ACCESSORIES, AND GROUTING SHALL BE CONSIDERED INCIDENTAL TO THE ITEM PRECAST SLAB GIRDER.~~

DESIGN DATA:

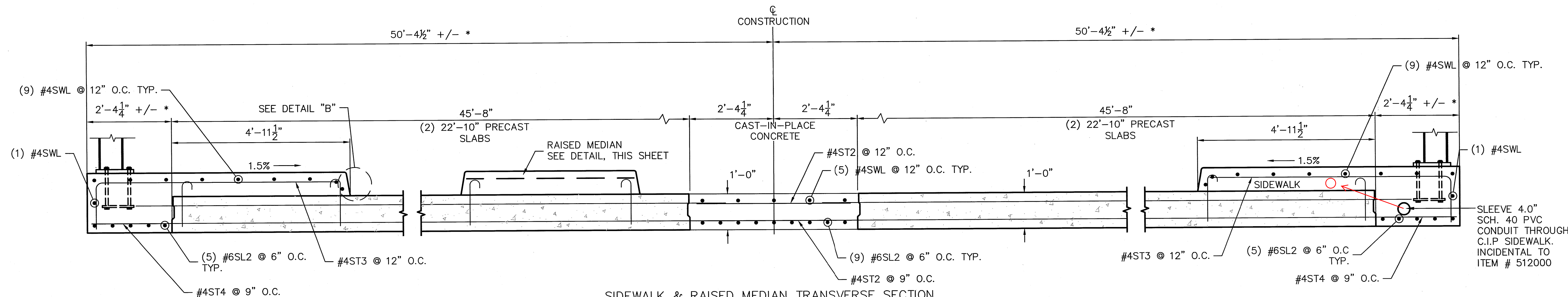
fpu = ULTIMATE TENSILE STRENGTH OF PRESTRESS STEEL
fpy = YIELD STRENGTH OF PRESTRESS STEEL = 0.85fpu
Fpbt = INITIAL STRESSING FORCE IN KIPS PRIOR TO SEATING = 0.9Asfpy
Fpt = STRESSING FORCE IN KIPS IMMEDIATELY AFTER ANCHOR SET = 0.8Asfpy

POST-TENSIONING STEEL:

150 ksi THREADED BARS
SIZE: 1.0" DIAMETER
NO. REQUIRED: 2
fpu = 150 ksi
fpy = 127.5 ksi
Fpbt = 90.08 kips
Fpt = 80.07 kips
PRESTRESS LOSSES = 28.8 kips

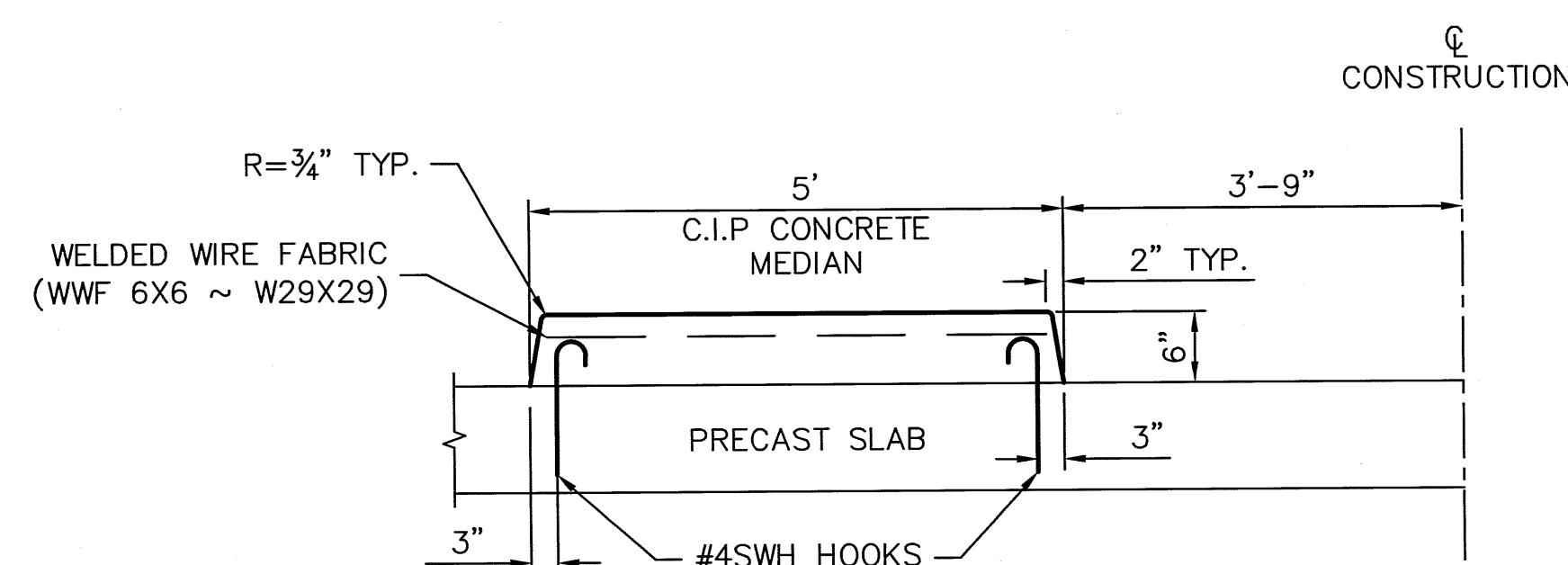
**PARSONS
BRINCKERHOFF**

| | | | |
|--|---|-------------------|-------------|
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN STRUCTURE TRANSVERSE SECTIONS | | | |
| DESIGN REVIEW COMMITTEE APPROVE SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVE SEP 10 2014 CITY ENGINEER | MO./DAY/YR. | MO./DAY/YR. |
| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 13 OF 32 | |

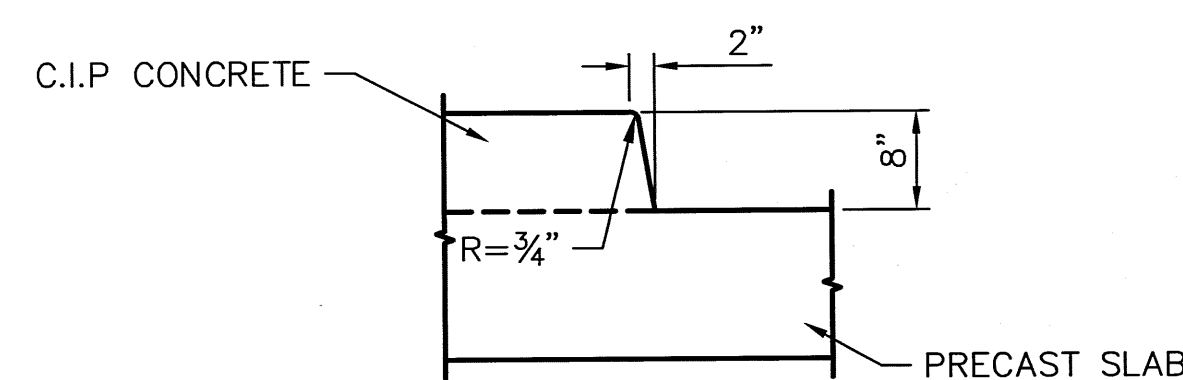


SIDEWALK & RAISED MEDIAN TRANSVERSE SECTION
NTS

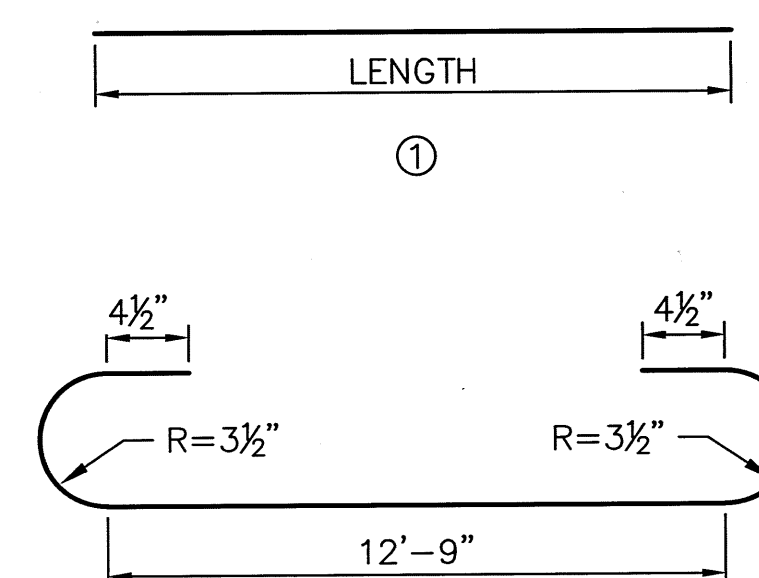
* MATCH EXISTING STRUCTURE WIDTH



RAISED MEDIAN DETAIL
NTS



DETAIL B
NTS



BAR BENDING DIAGRAM
NTS


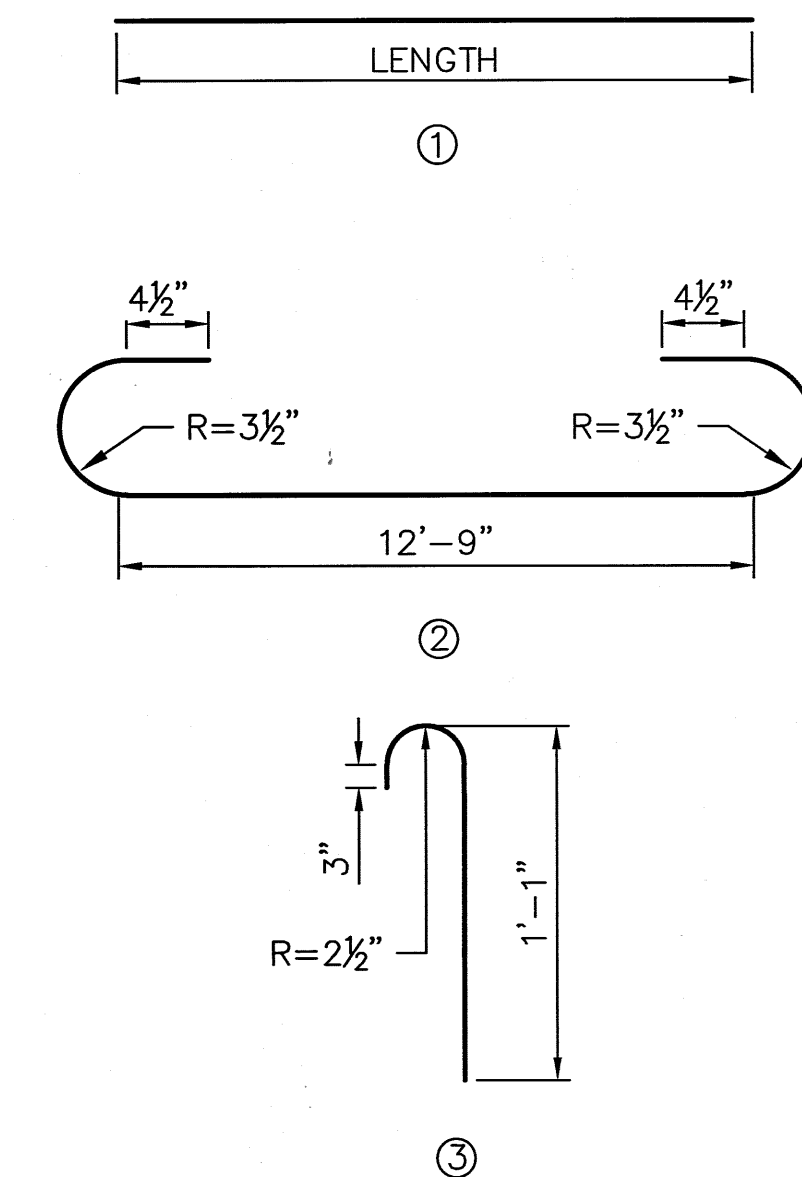
NOTES:

1. CONCRETE SHALL BE CLASS AA, $f'_c=4,000$ psi
2. REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED

| C.I.P. SLAB REINFORCING STEEL | | | | |
|-------------------------------|------|------|--------|--------------|
| EPOXY COATED GRADE 60 BARS | | | | |
| BAR | TYPE | SIZE | LENGTH | NO. REQUIRED |
| #6SL2 | 2 | 6 | 15'-4" | 19 |
| #4ST2 | 1 | 4 | 4'-4" | 32 |
| #4ST3 | 4 | 4 | 8'-4" | 28 |
| #4ST4 | 1 | 4 | 2'-1" | 34 |
| #4SWL | 1 | 4 | 13'-4" | 25 |

| | | | |
|---|--|---|---|
| | | CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION AVENIDA CESAR CHAVEZ INLET DESIGN SIDEWALK DETAILS | |
| DESIGN REVIEW COMMITTEE APPROVE SEP 10 2014 DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL APPROVE SEP 10 2014 CITY ENGINEER | NO./DAY/YR. _____ _____ _____ _____ | MO./DAY/YR. _____ _____ _____ _____ |
| City Project No. COA 5015.07 | | Zone Map No. L15 | Sheet 14 OF 32 |

**PARSONS
BRINCKERHOFF**




A technical drawing of a shear key detail. It shows a rectangular block with a shear key cutout on the right side. The width of the block is dimensioned as 3/8". The depth of the shear key cutout is dimensioned as 3/4". The drawing is labeled "SHEAR KEY DETAIL" and "NTS" (Not To Scale).

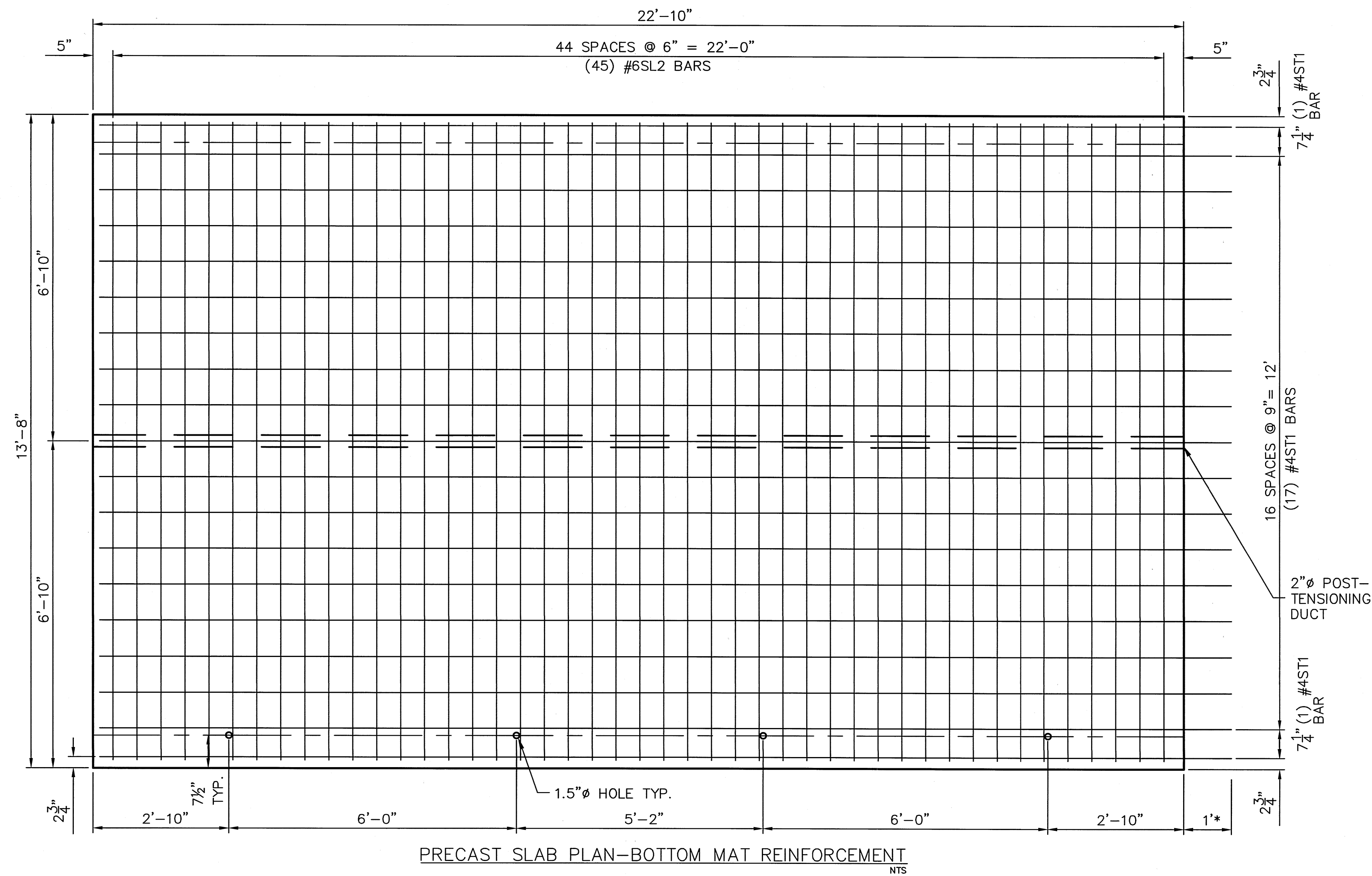
- NOTES:**
1. CONCRETE SHALL BE CLASS AA, $f'c=4,000$ psi
 2. REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED.
 3. FOR THE TOP SURFACING FINISH, PREPARE THE SURFACE FOR OVERLAY WITH POLYMER CONCRETE PER NMDOT SECTION 536.3.1.1 THE CONTRACTOR HAS THE OPTION OF PREPARING THE SURFACE AT THE CASTING LOCATION OR ON-SITE.
 4. THE COST OF REINFORCING BARS AND STRUCTURAL STEEL EMBEDDED IN THE SLABS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE SLAB GIRDER.

| TOP MAT REINFORCING STEEL FOR 1 SLAB | | | | |
|--------------------------------------|------|------|--------|--------------|
| EPOXY COATED GRADE 60 BARS | | | | |
| BAR | TYPE | SIZE | LENGTH | NO. REQUIRED |
| #4SL1 | 1 | 4 | 13'-4" | 23 |
| #4ST1 | 1 | 4 | 23'-8" | 20 |
| #4SWH | 3 | 4 | 1'-10" | 18 |

[illegible]

|  | CITY OF ALBUQUERQUE | | | | | | | | | | | | | | | |
|--|---|--|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | | | | | | | | | | | | | |
| AVENIDA CESAR CHAVEZ INLET DESIGN PRE-CAST SLAB GIRDER DETAILS TOP MAT | | | | | | | | | | | | | | | | |
| DESIGN REVIEW COMMITTEE <div style="border: 2px solid black; padding: 10px; text-align: center;"> <div style="font-size: 2em; font-weight: bold; letter-spacing: 5px;">APPROVE</div> <div style="font-size: 1.2em; margin-top: 10px;">SEP 10 2014</div> <div style="font-size: 0.8em; font-weight: bold; letter-spacing: 2px;">DESIGN REVIEW COMMITTEE</div> </div> | CITY ENGINEER APPROVAL <div style="border: 2px solid black; padding: 10px; text-align: center;"> <div style="font-size: 2em; font-weight: bold; letter-spacing: 5px;">APPROVE</div> <div style="font-size: 1.2em; margin-top: 10px;">SEP 10 2014</div> <div style="font-size: 0.8em; font-weight: bold; letter-spacing: 2px;">CITY ENGINEER</div> </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">MO./DAY/YR.</th> <th style="width: 50%;">MO./DAY/YR.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> | MO./DAY/YR. | MO./DAY/YR. | | | | | | | | | | | | |
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| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet <div style="text-align: right; font-weight: bold; font-size: 1.2em;">15 OF 32</div> | | | | | | | | | | | | | | |

**PARSONS
BRINCKERHOFF**



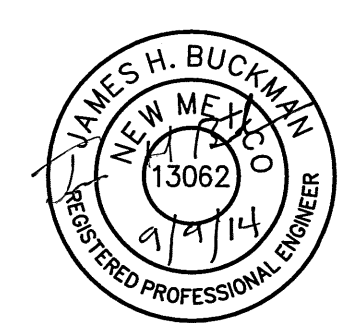
* EXTEND #4ST1 BARS 1'-0" ON EXTERIOR SLABS ONLY. 4 SLABS TOTAL.

NOTES:

- CONCRETE SHALL BE CLASS AA, $f'c=4,000$ psi
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED
- FOR THE TOP SURFACING FINISH, PREPARE THE SURFACE FOR OVERLAY WITH POLYMER CONCRETE PER NMDOT SECTION 536.3.1.1. THE CONTRACTOR HAS THE OPTION OF PREPARING THE SURFACE AT THE CASTING LOCATION OR ON-SITE.
- THE COST OF REINFORCING BARS AND STRUCTURAL STEEL EMBEDDED IN THE SLABS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE SLAB GIRDERS.

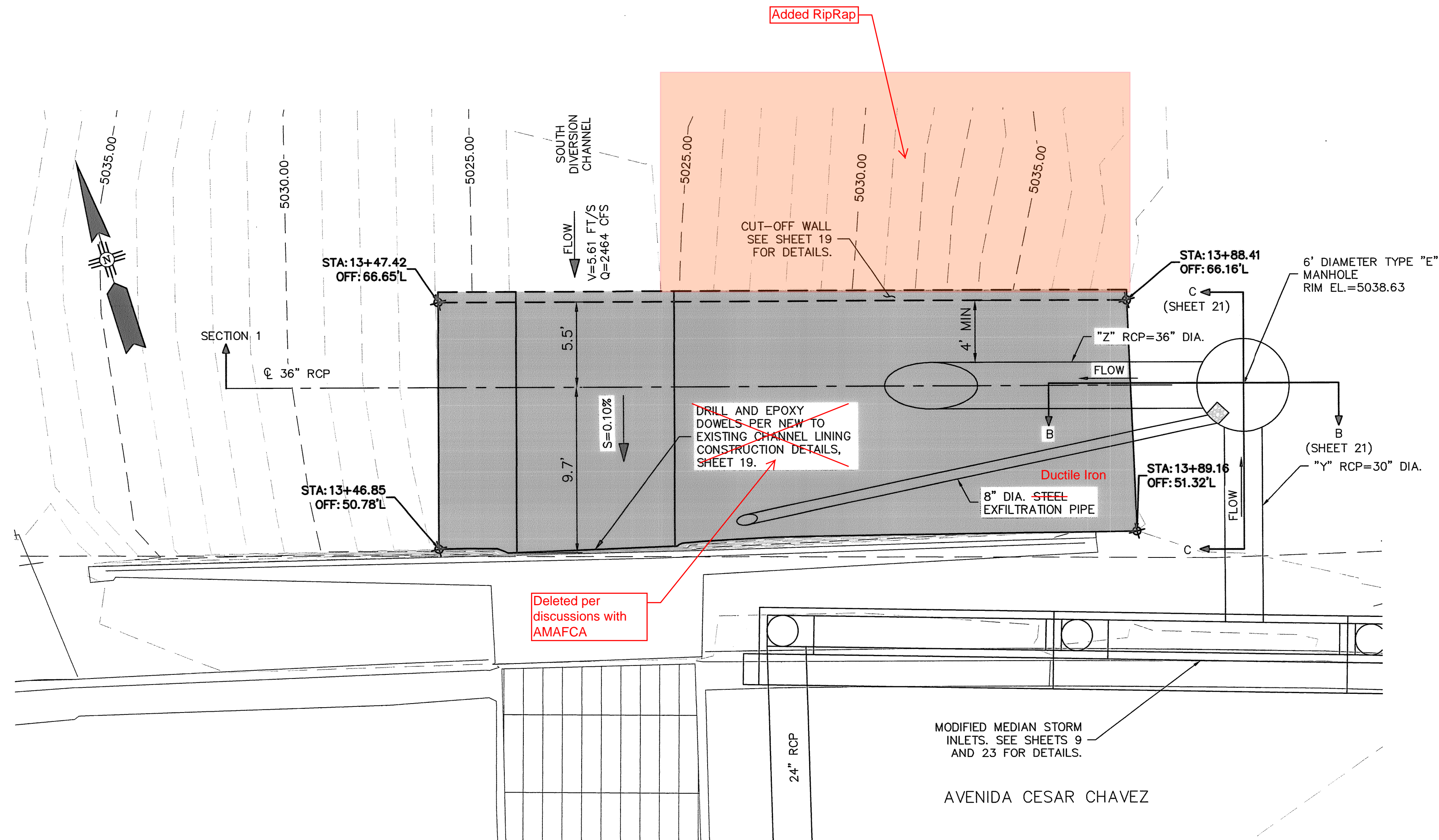
| REINFORCING STEEL FOR 1 SLAB | | | | |
|------------------------------|------|------|--------|--------------|
| EPOXY COATED GRADE 60 BARS | | | | |
| BAR | TYPE | SIZE | LENGTH | NO. REQUIRED |
| #6SL2 | 2 | 6 | 15'-4" | 45 |
| #4ST1 | 1 | 4 | 23'-8" | 19 |

| AS BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
|-----------------------------------|------|---|------|------------------------|------|------------------------|------|
| CONTRACTOR | DATE | ALBUQUERQUE GRS BENCHMARK "25.116" | DATE | NO. | BY | NO. | DATE |
| INSPECTOR'S FIELD VERIFICATION BY | DATE | 1 3/4" METALLIC DISC | DATE | | | | |
| INSPECTOR'S FIELD VERIFICATION BY | DATE | STATION IS LOCATED AT THE INTERSECTION OF | | | | | |
| INSPECTOR'S FIELD VERIFICATION BY | DATE | OF YALE BLVD., AVENIDA CESAR CHAVEZ | | | | | |
| INSPECTOR'S FIELD VERIFICATION BY | DATE | AND SANTA CLARA AVE. | | | | | |
| INSPECTOR'S FIELD VERIFICATION BY | DATE | NAVD 1988 ELEV. = 5156.683 | | | | | |
| MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | |
| RECORDED BY | DATE | RECORDED BY | DATE | RECORDED BY | DATE | RECORDED BY | DATE |
| | | | | | | | |

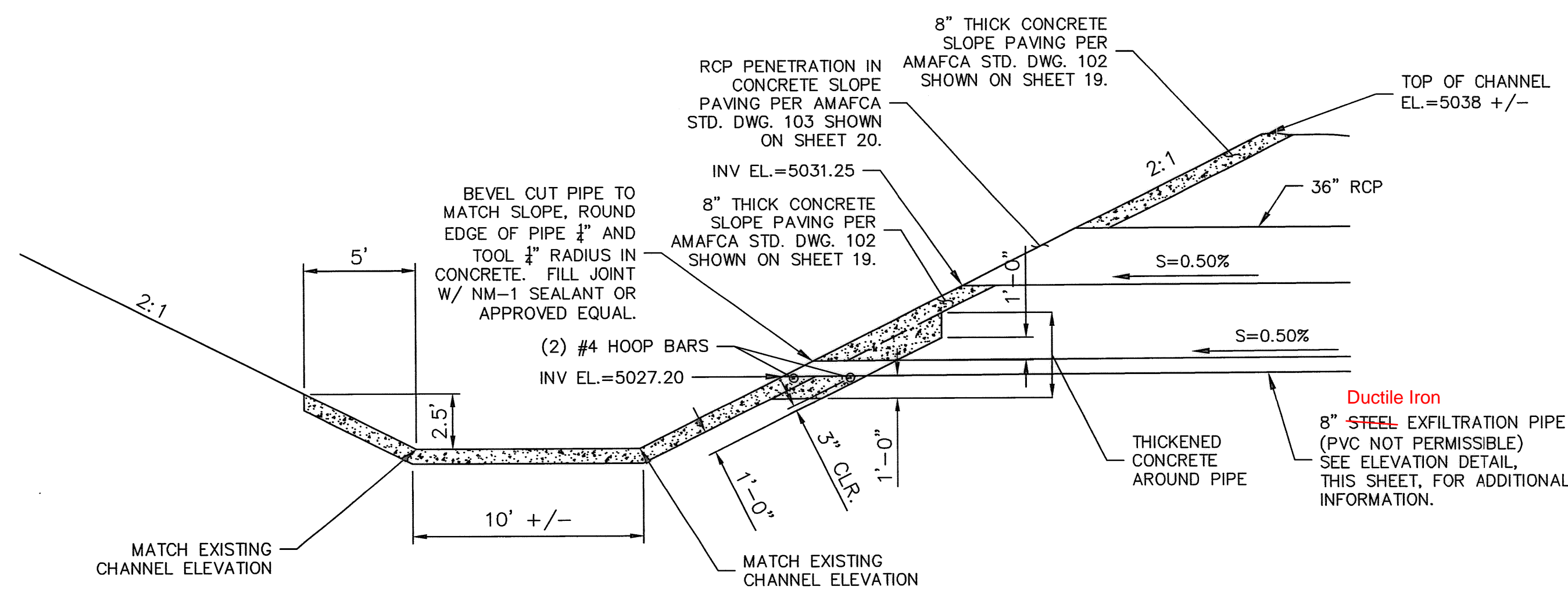


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|--|--|-------------------|-------------|
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | |
| AVENIDA CESAR CHAVEZ INLET DESIGN PRE-CAST SLAB GIRDER DETAILS BOTTOM MAT | | | |
| DESIGN REVIEW COMMITTEE APPROVED SEP 10 2014 | CITY ENGINEER APPROVAL APPROVED SEP 10 2014 CITY ENGINEER | MO./DAY/YR. | MO./DAY/YR. |
| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 16 OF 32 | |

**PARSONS
BRINCKERHOFF**



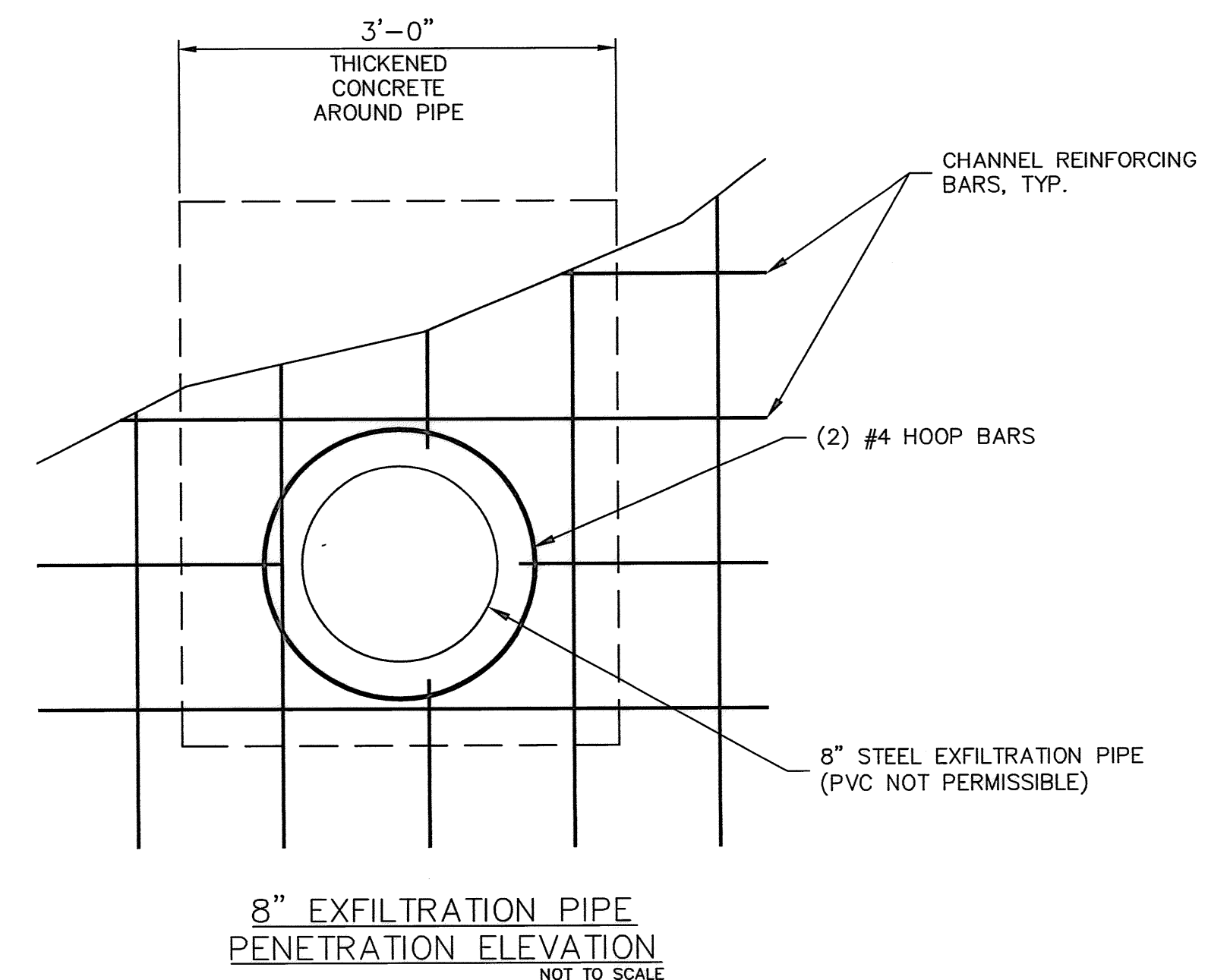
PLAN
1"=5'



SECTION 1
1"=5'

GENERAL NOTES

- STATIONS AND OFFSETS REFERENCE AVENIDA CESAR CHAVEZ CENTERLINE OF CONSTRUCTION.
- SEE AMAFCA STD. DWG. 301 ON SHEET 21 FOR SECTIONS B-B AND C-C. SEE AMAFCA STD. DWG. 302 ON SHEET 22 FOR BAFFLE DETAILS.



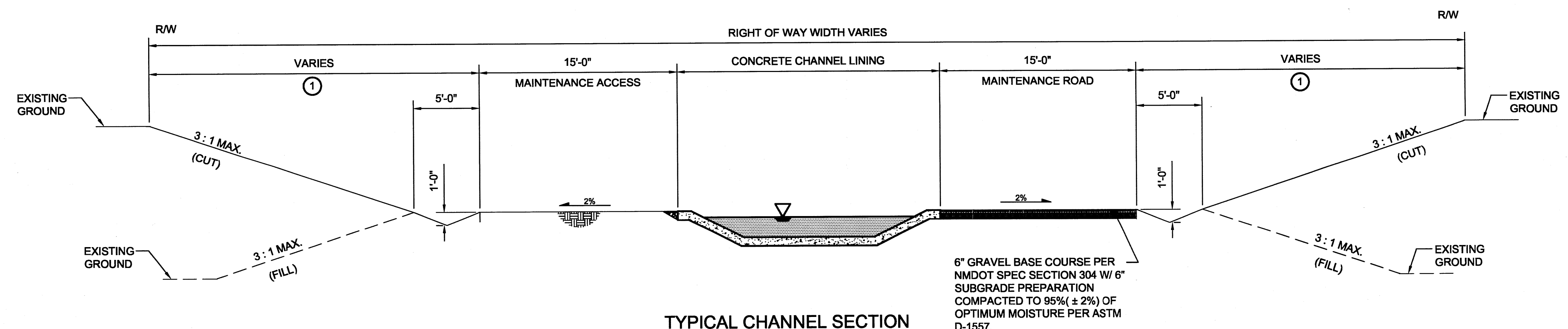
8" EXFILTRATION PIPE
PENETRATION ELEVATION
NOT TO SCALE

**PARSONS
BRINCKERHOFF**

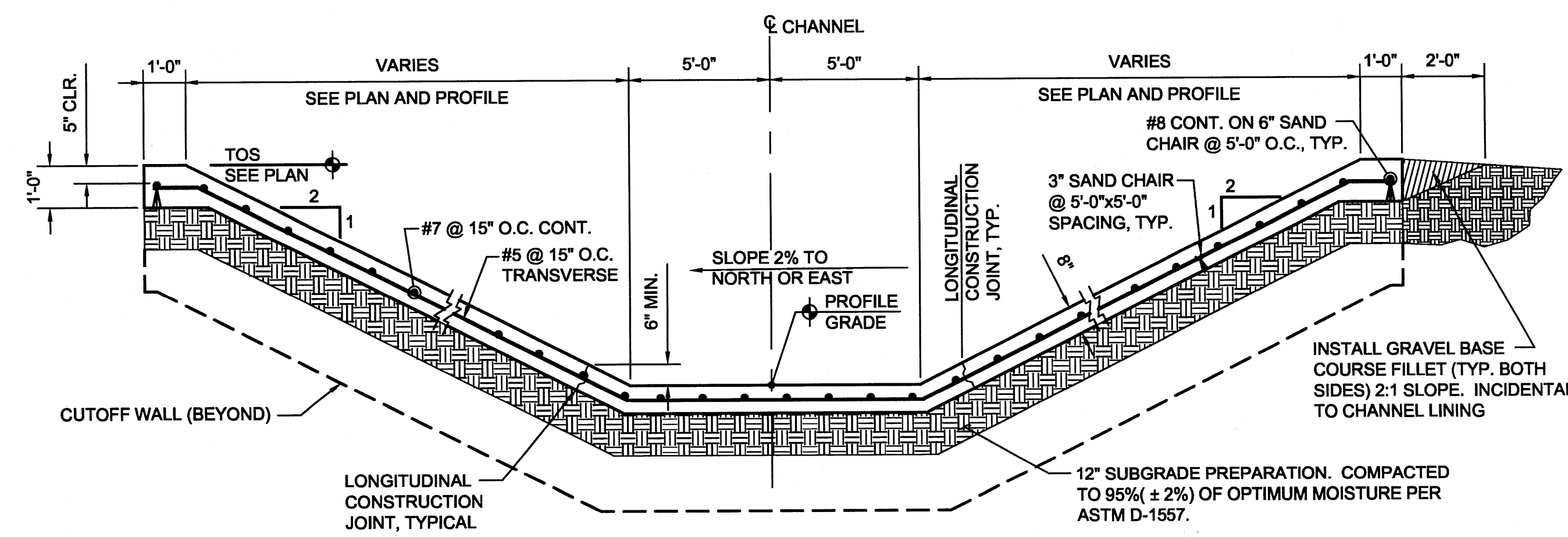
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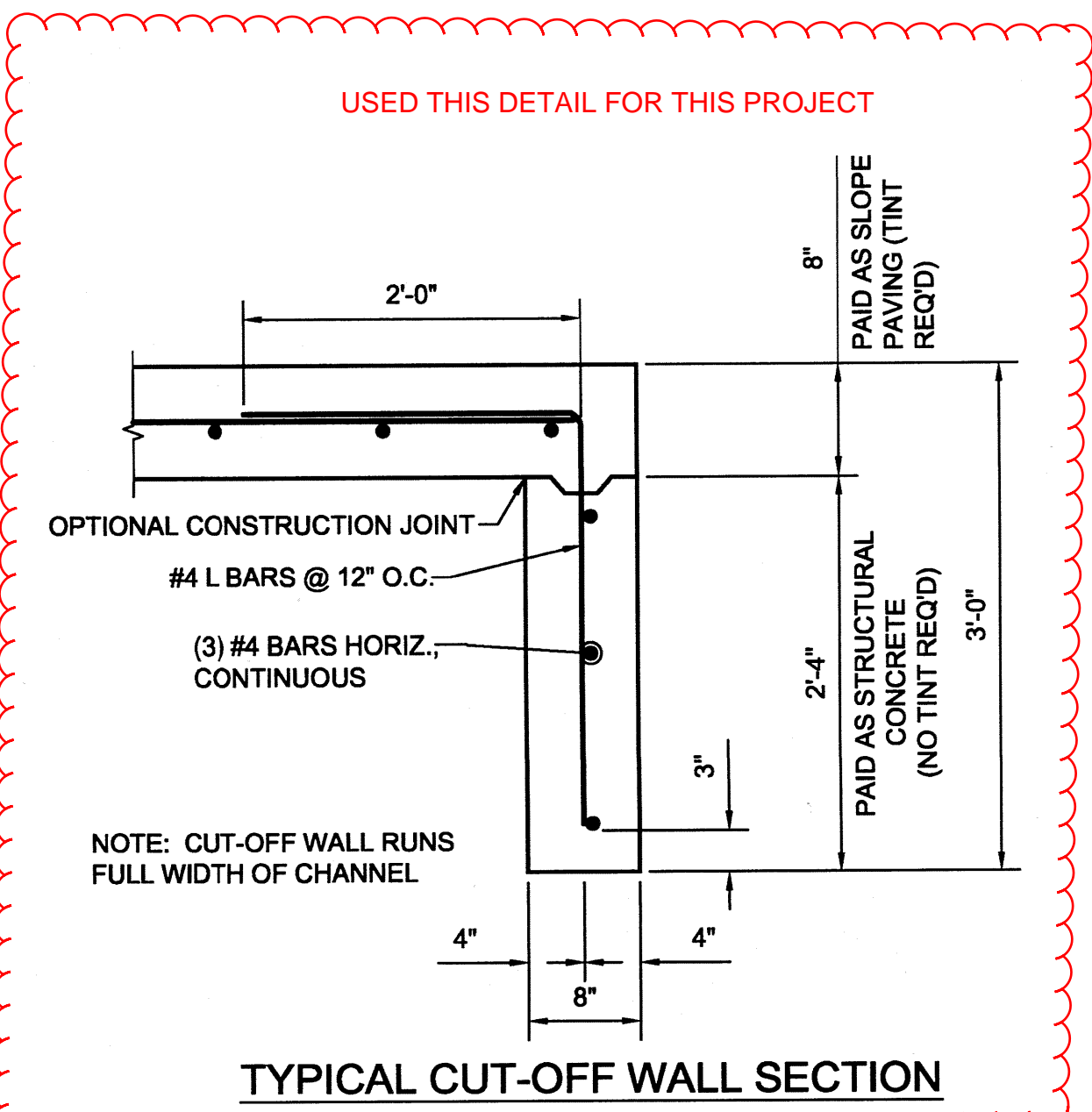
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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | |
| AVENIDA CESAR CHAVEZ INLET DESIGN OUTFALL EROSION PAD AND AMAFCA WATER QUALITY MANHOLE PLAN DETAIL | | | |
| DESIGN REVIEW COMMITTEE APPROVED SEP 10 2014 | CITY ENGINEER APPROVAL APPROVED SEP 10 2014 | MO./DAY/YR. | MO./DAY/YR. |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER | | |
| City Project No. COA 5015.07 | Zone Map No. L15 | Sheet 18 OF 32 | |



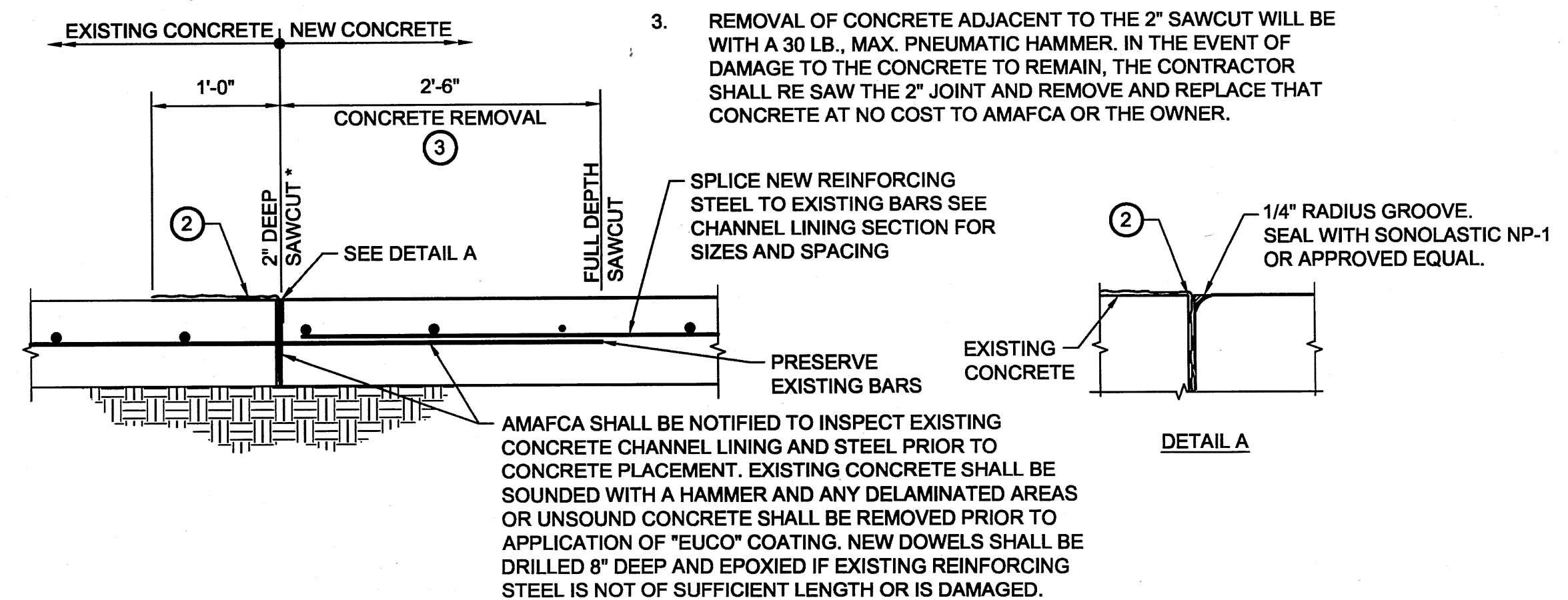
TYPICAL CHANNEL SECTION



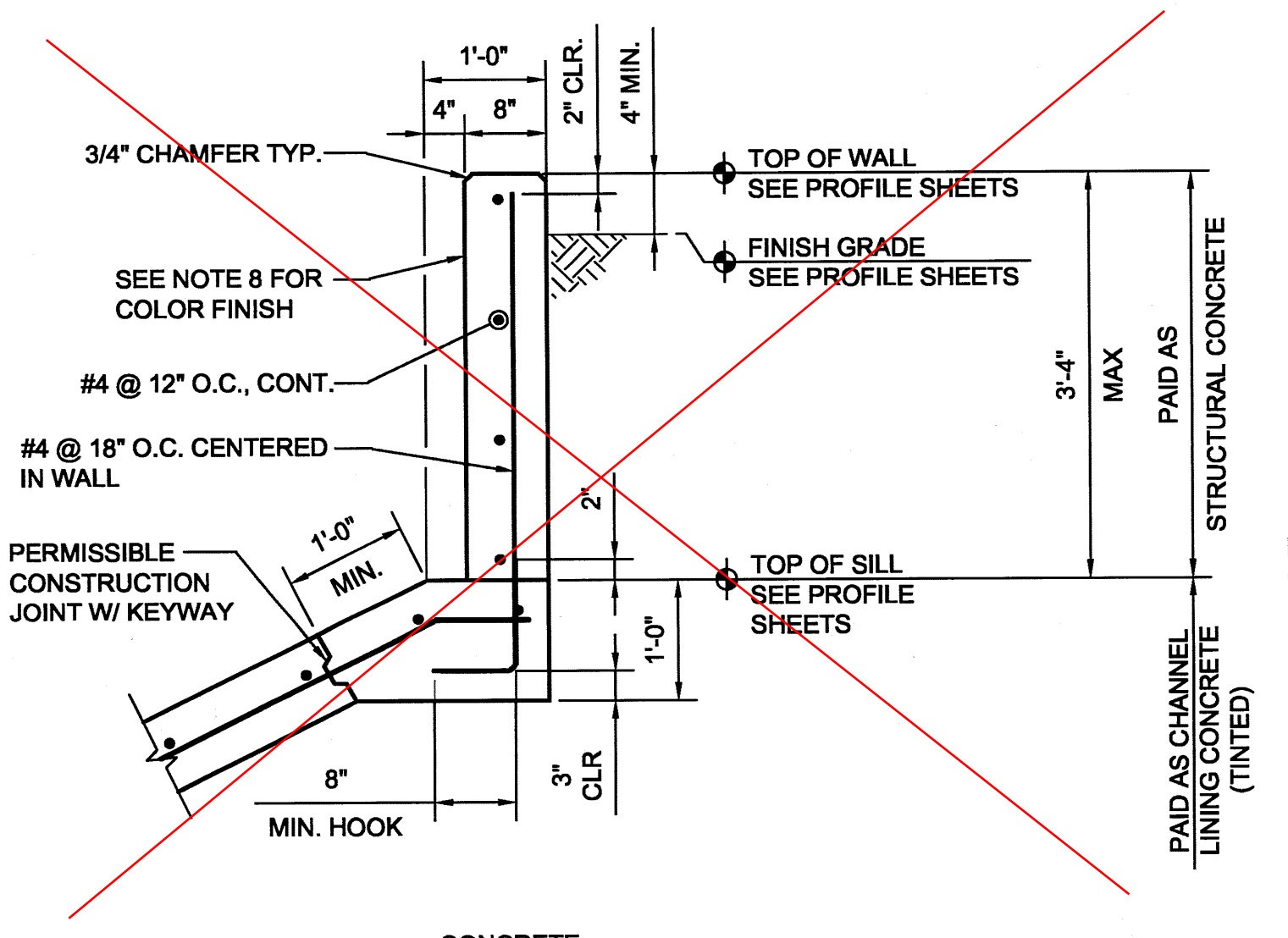
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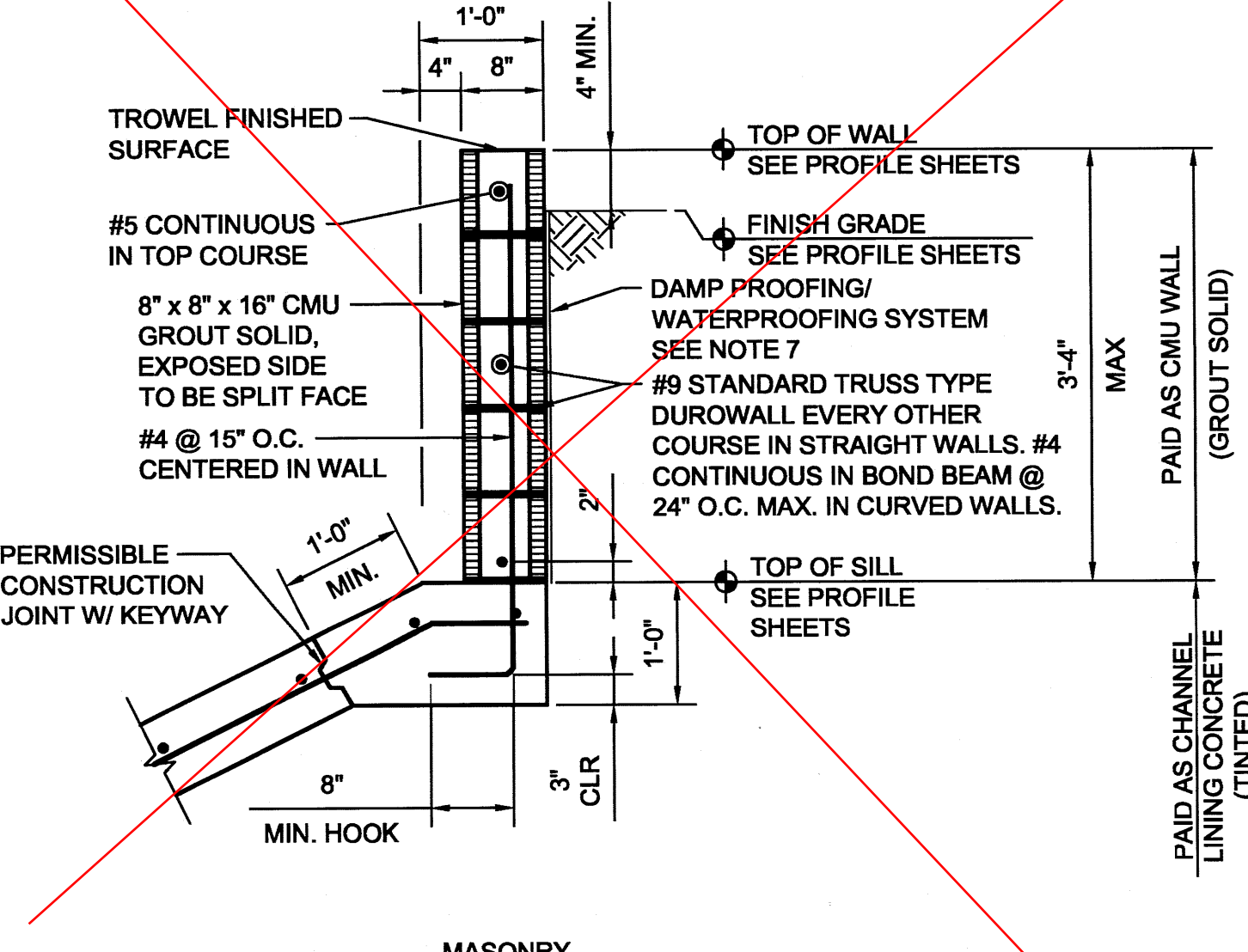
TYPICAL CUT-OFF WALL SECTION



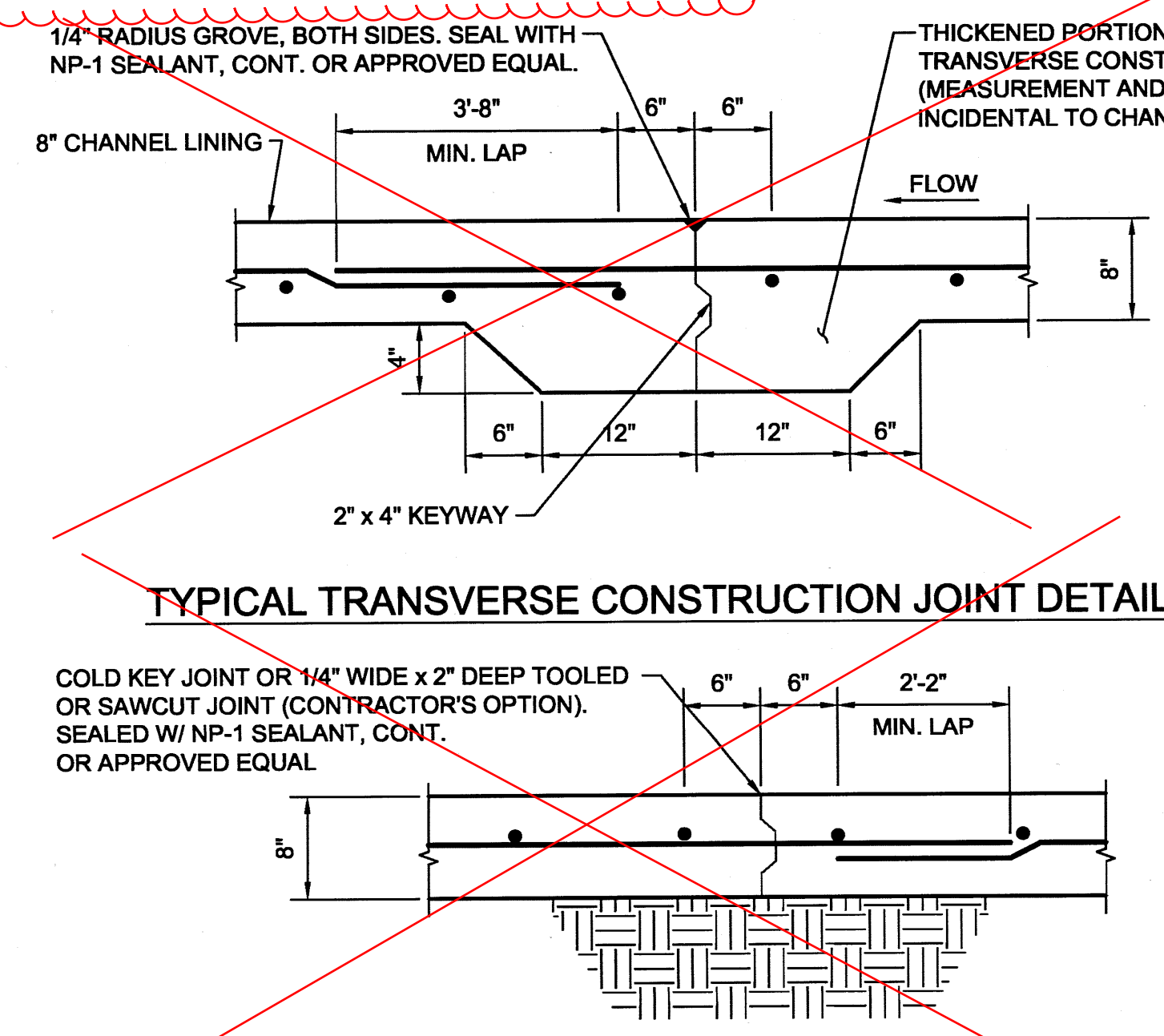
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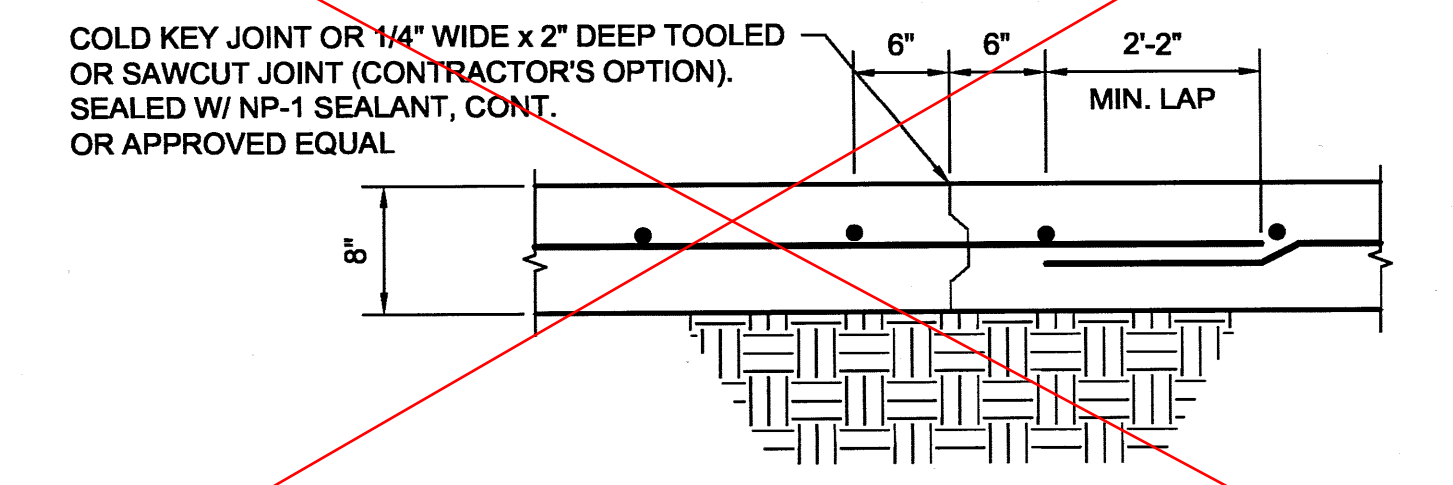
TYPICAL SILL WALL DETAIL



MASONRY



TYPICAL TRANSVERSE CONSTRUCTION JOINT DETAIL



TYPICAL LONGITUDINAL CONSTRUCTION JOINT DETAIL

NOTES FOR CHANNEL CONSTRUCTION

- CAST-IN-PLACE CONCRETE: CONCRETE SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. ($f_c = 3000$ psi MINIMUM). 3/4" CHAMFER ON ALL EXPOSED FORMED EDGES UNLESS NOTED OTHERWISE.
- REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE INCIDENTAL TO CONCRETE BID ITEMS.
- ALL EXPOSED CHANNEL SURFACES SHALL BE GIVEN A CLASS 3 FLOAT & TINE FINISH. TINE SHALL BE TRANSVERSE TO FLOW.
- ALL EXPOSED CONCRETE SHALL BE TINTED WITH SAN DIEGO BUFF (DAVIS-COLOR 5237) AT THE REDUCED DOSAGE OF 1 lb PER BAG OF CEMENT, OR APPROVED EQUAL. TINT SHALL BE INCIDENTAL TO THE GOST OF THE RESPECTIVE CONCRETE.
- NEW TO EXISTING CHANNEL CONSTRUCTION: EUCO ARC LITHIUM NITRATE TREATMENT IS REQUIRED FOR ANY EXISTING CONCRETE CHANNELS. SEE DETAILS FOR INSTALLATION REQUIREMENTS, THIS SHEET.
- MINIMUM REBAR LAP LENGTH (CLASS B LAPS):
#5 = 22"
#7 = 43"
#8 = 54"
- THE EARTH SIDE OF SILL WALLS SHALL BE WATERPROOFED AT IRRIGATED AREAS AND DAMP PROOFED AT ALL OTHER AREAS. WATERPROOFING SHALL BE CONWRAP BARRIER CS-212 AS MANUFACTURED BY CONCRETE SEALANTS, INC. (MEMBRANE THICKNESS 0.100 INCHES MINIMUM) OR ENGINEER APPROVED EQUAL. DAMP PROOFING SHALL BE HYDROCID 700B OR ENGINEER APPROVED EQUAL.
- ALL EXPOSED SURFACES OF THE CHANNEL SILL WALLS SHALL RECEIVE A "THOROCOAT" CLASS 4 FINISH. THE COLOR SHALL BE SIMILAR TO THE TINTED CHANNEL LINING AND SHALL BE APPROVED BY AMAFCA. "THOROCOAT" SHALL BE APPLIED TO THE BACK OF WALLS 6 INCHES BELOW GRADE.

KEYED NOTES

- NATIVE RE-VEGETATION. SEE CITY OF ALBUQUERQUE SPECIFICATION SECTION 1012. GRAVEL MULCH IS REQUIRED FOR SLOPES GREATER THAN 3H:1V.
- EUCO ARC LITHIUM NITRATE COATING OR APPROVED EQUAL APPLIED TO VERTICAL SURFACE AND 12" OF TOP SURFACE OF EXISTING CONCRETE TO REMAIN.
- REMOVAL OF CONCRETE ADJACENT TO THE 2" SAWCUT WILL BE WITH A 30 LB., MAX. PNEUMATIC HAMMER. IN THE EVENT OF DAMAGE TO THE CONCRETE TO REMAIN, THE CONTRACTOR SHALL RE SAW THE 2" JOINT AND REMOVE AND REPLACE THAT CONCRETE AT NO COST TO AMAFCA OR THE OWNER.

**ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY**

AMAFCA
STANDARD DETAILS

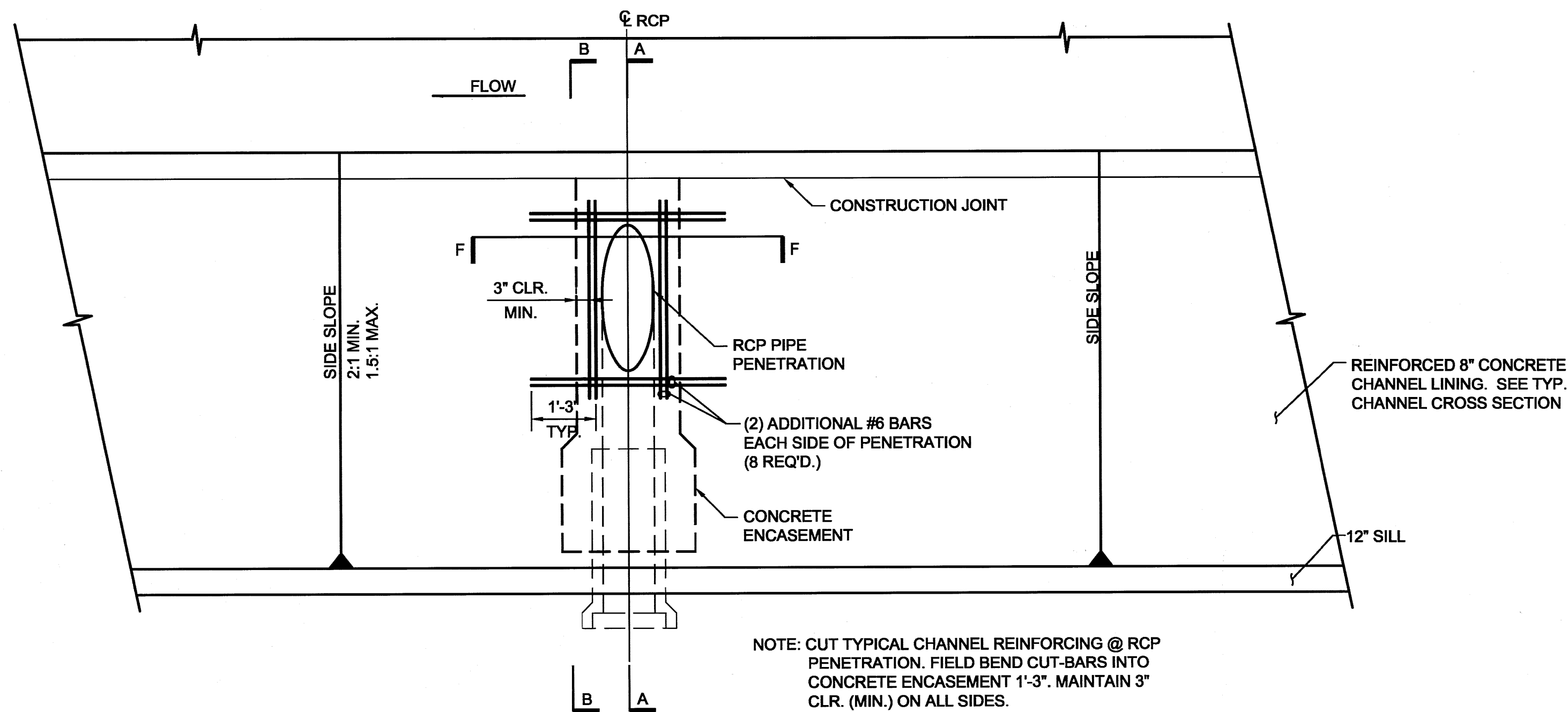
CHANNEL STRUCTURE
SECTIONS AND DETAILS

| REV | DATE | DESCRIPTION | CHKD |
|-----|------|-------------|------|
| | | | |

DRAWING NO. 102

MAP NO.

SHEET 19 OF 32

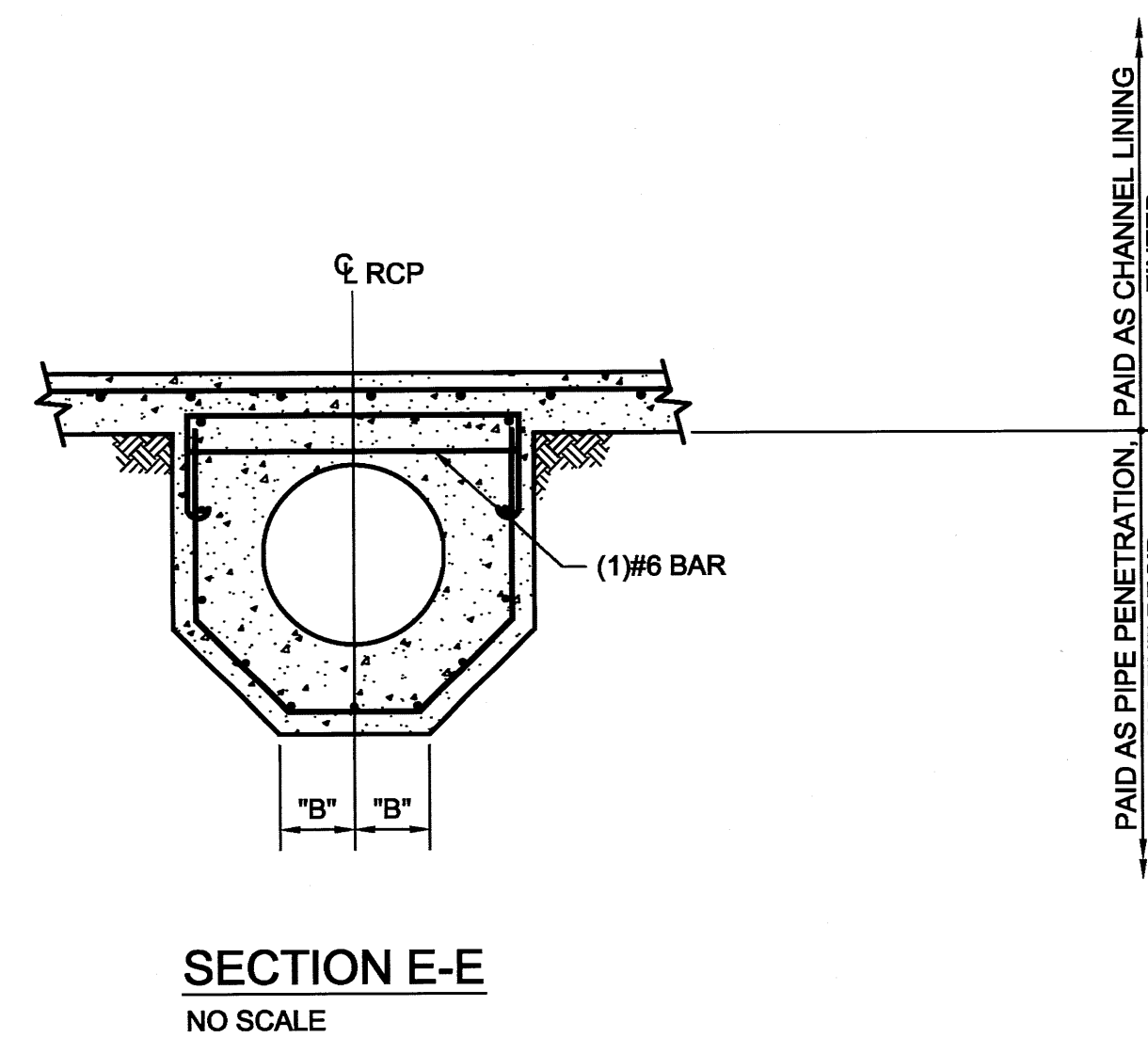
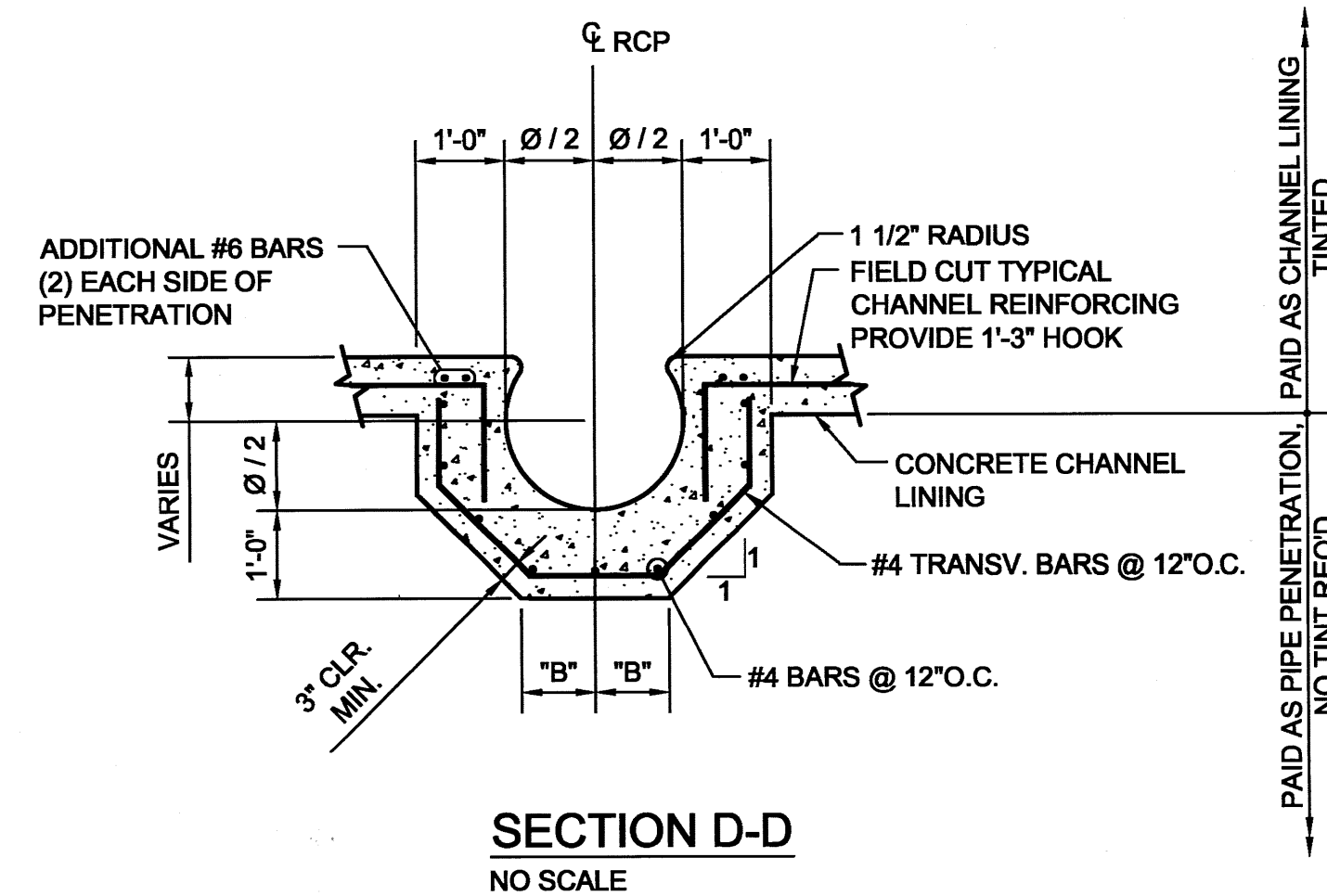
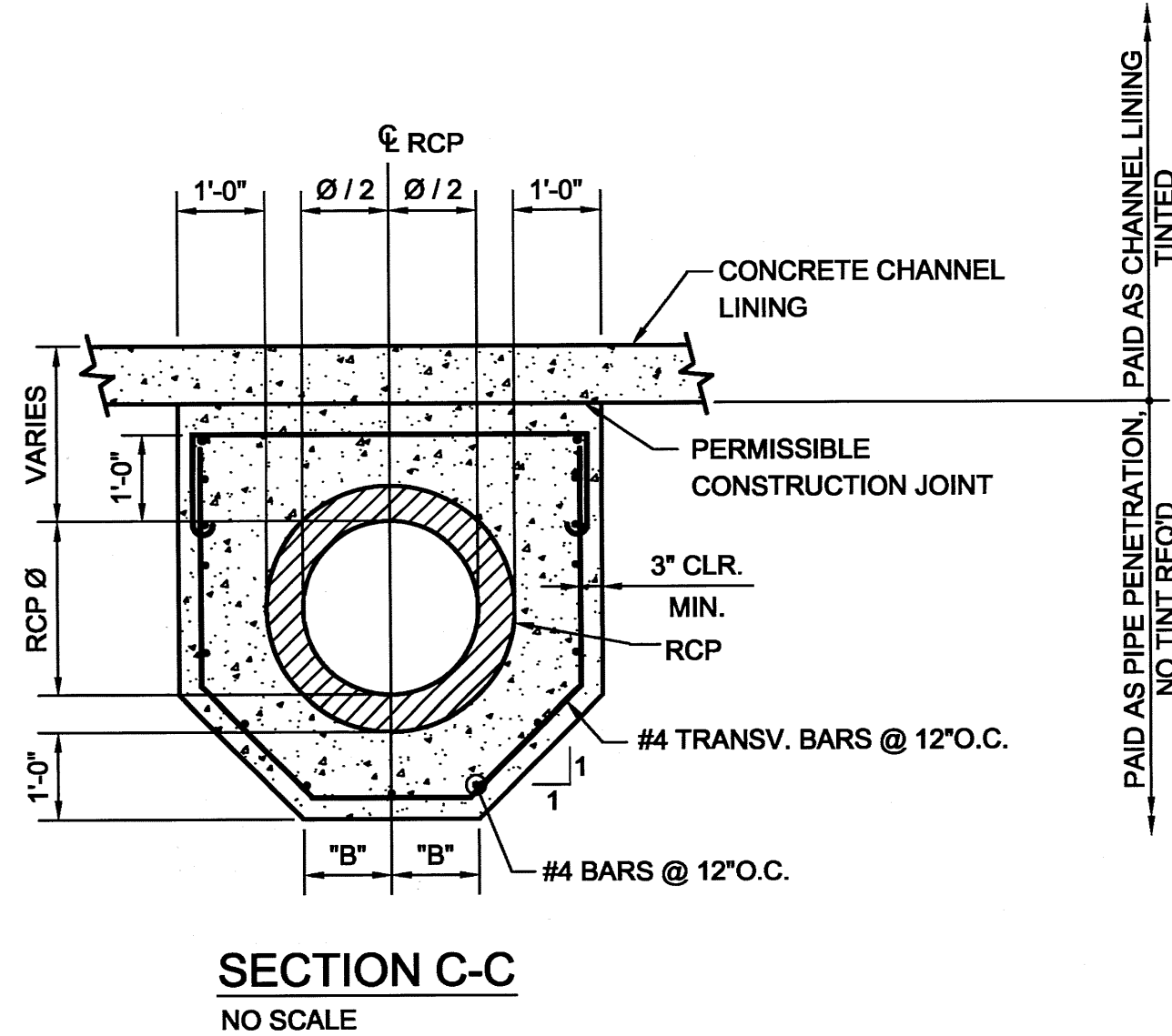
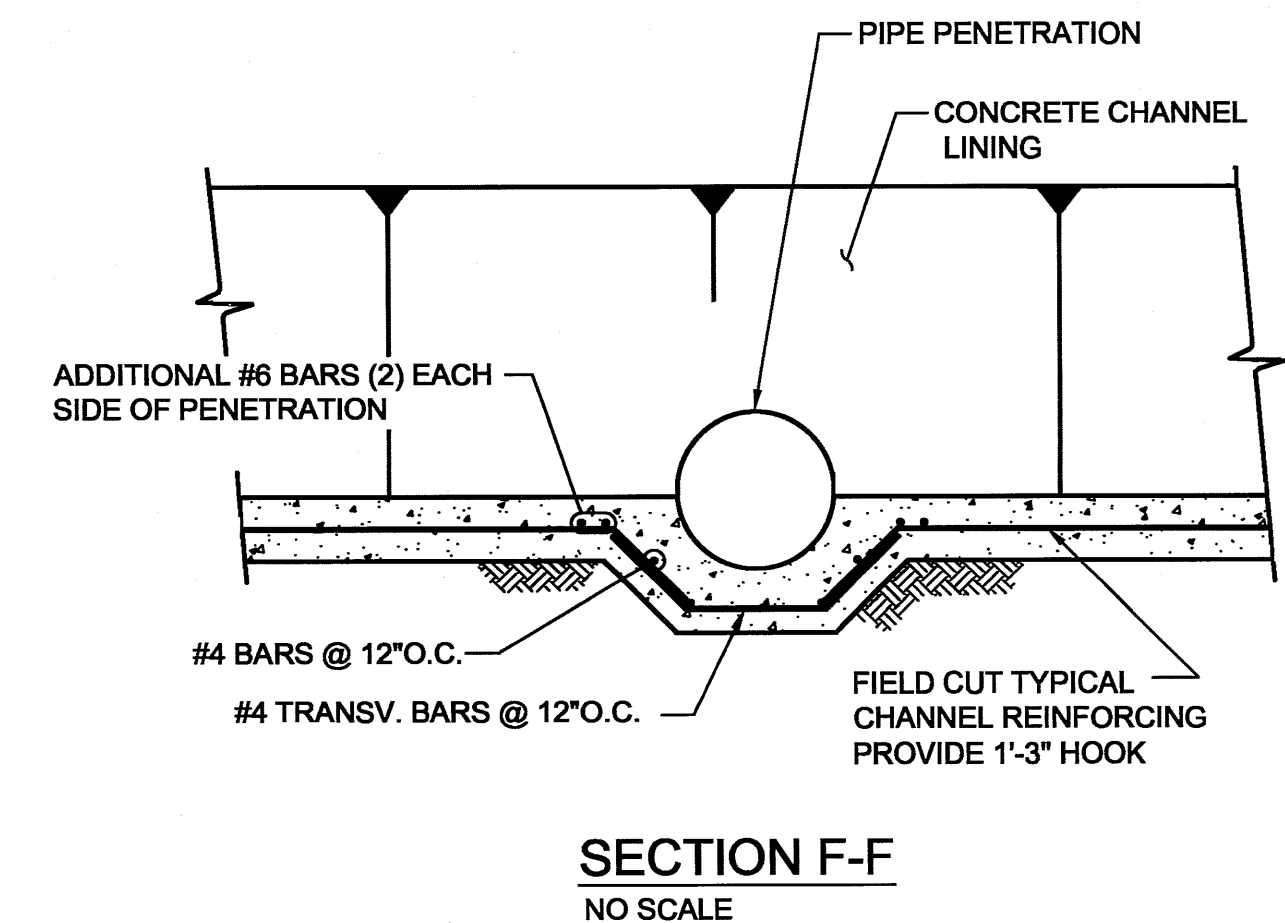
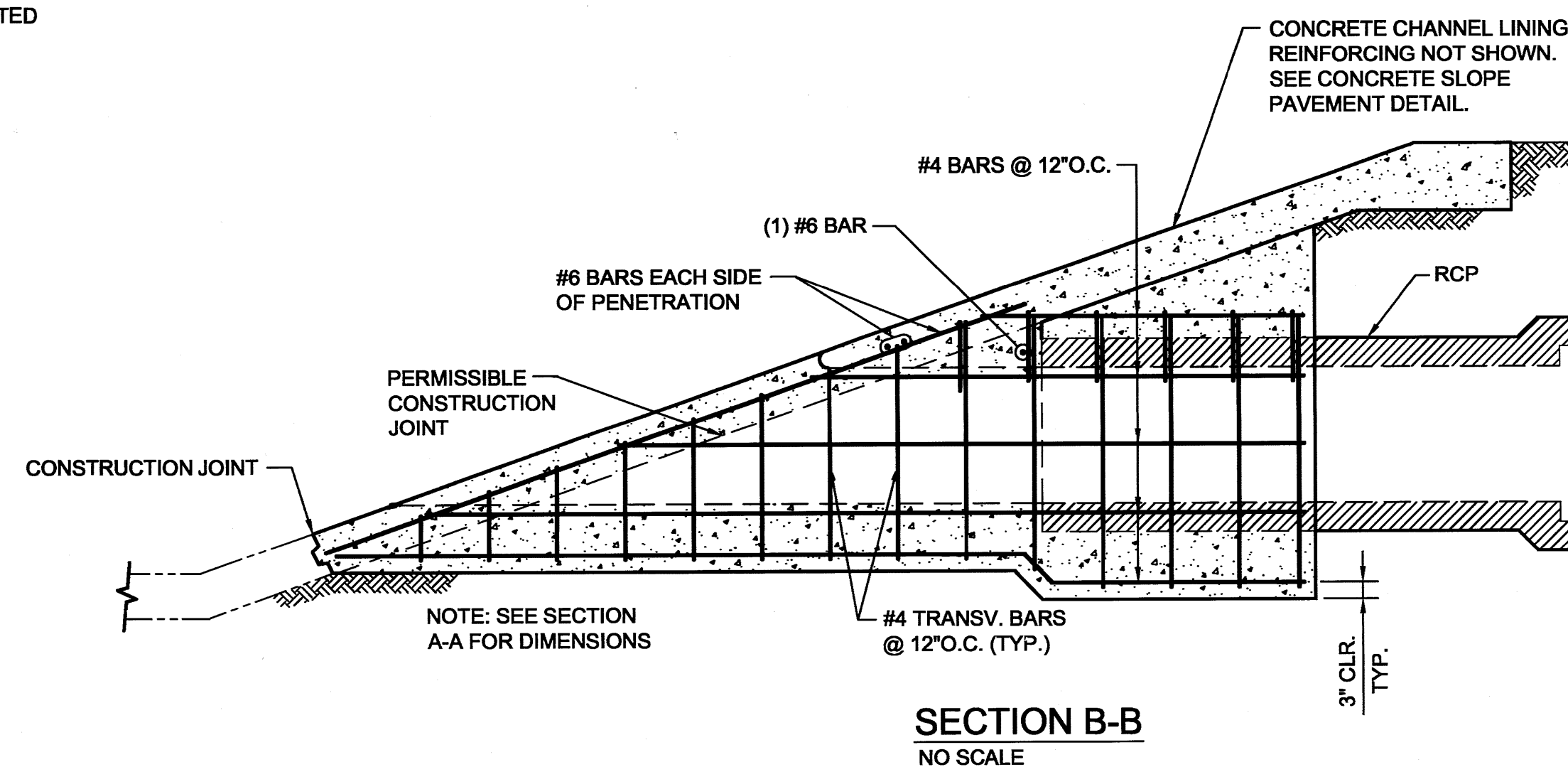
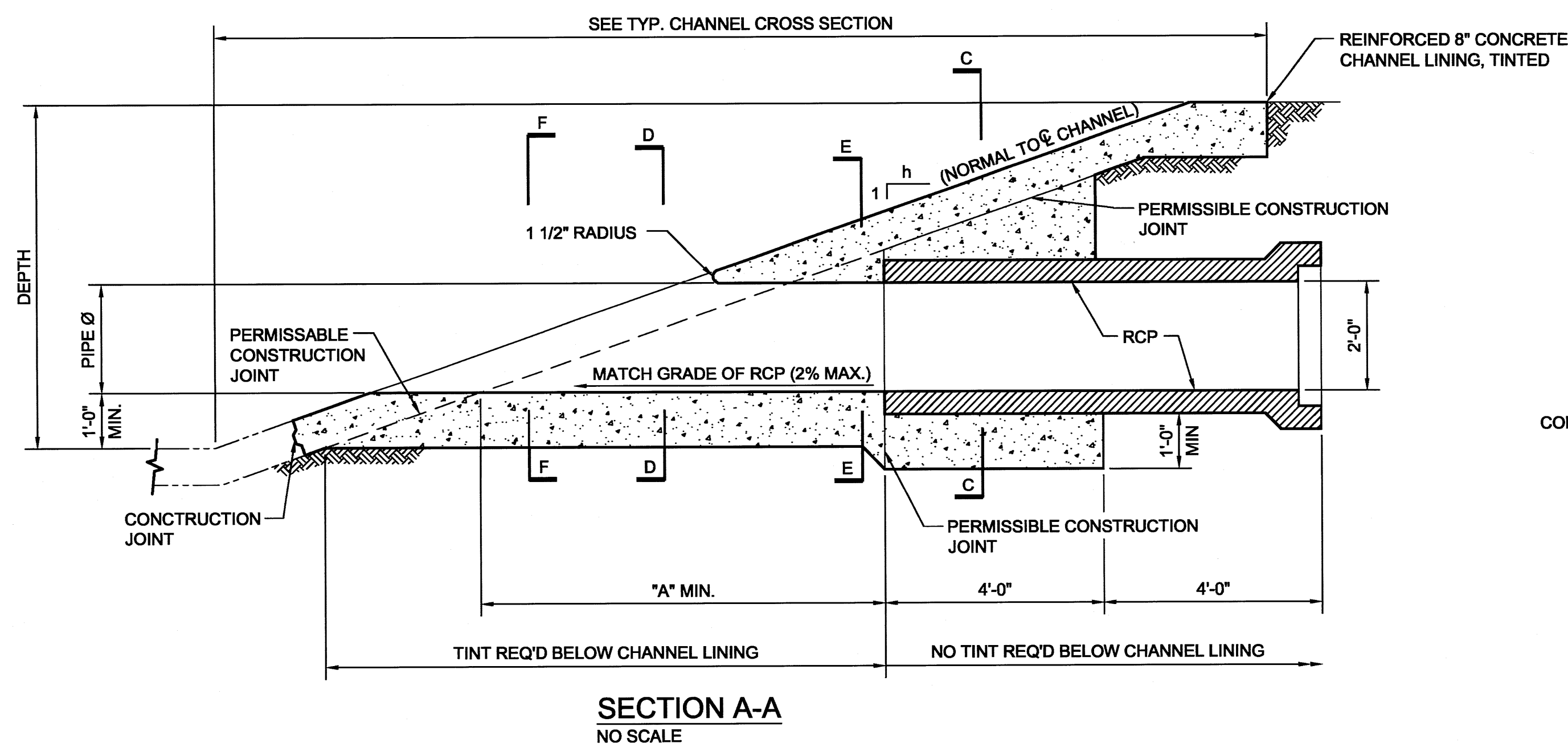


| SIDE SLOPE | DIMENSION "A" | | | | | | | |
|------------|------------------------|-------|-------|--------|-------|--------|--------|--------|
| | PIPE DIAMETER (INCHES) | | | | | | | |
| 1.5:1 | 4'-8" | 5'-5" | 6'-2" | 6'-11" | 7'-8" | 8'-5" | 9'-2" | 10'-8" |
| 2:1 | 5'-8" | 6'-8" | 7'-8" | 8'-8" | 9'-8" | 10'-8" | 11'-8" | 13'-8" |

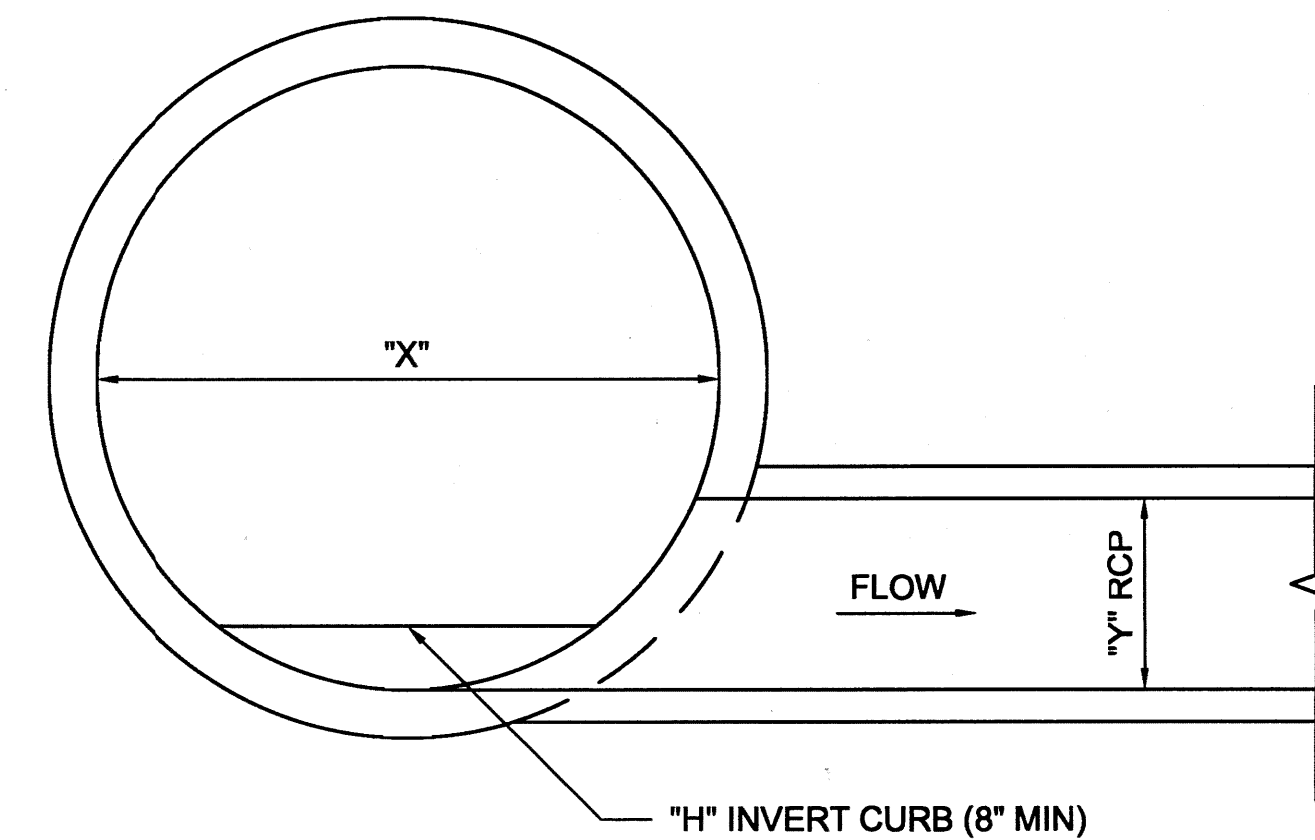
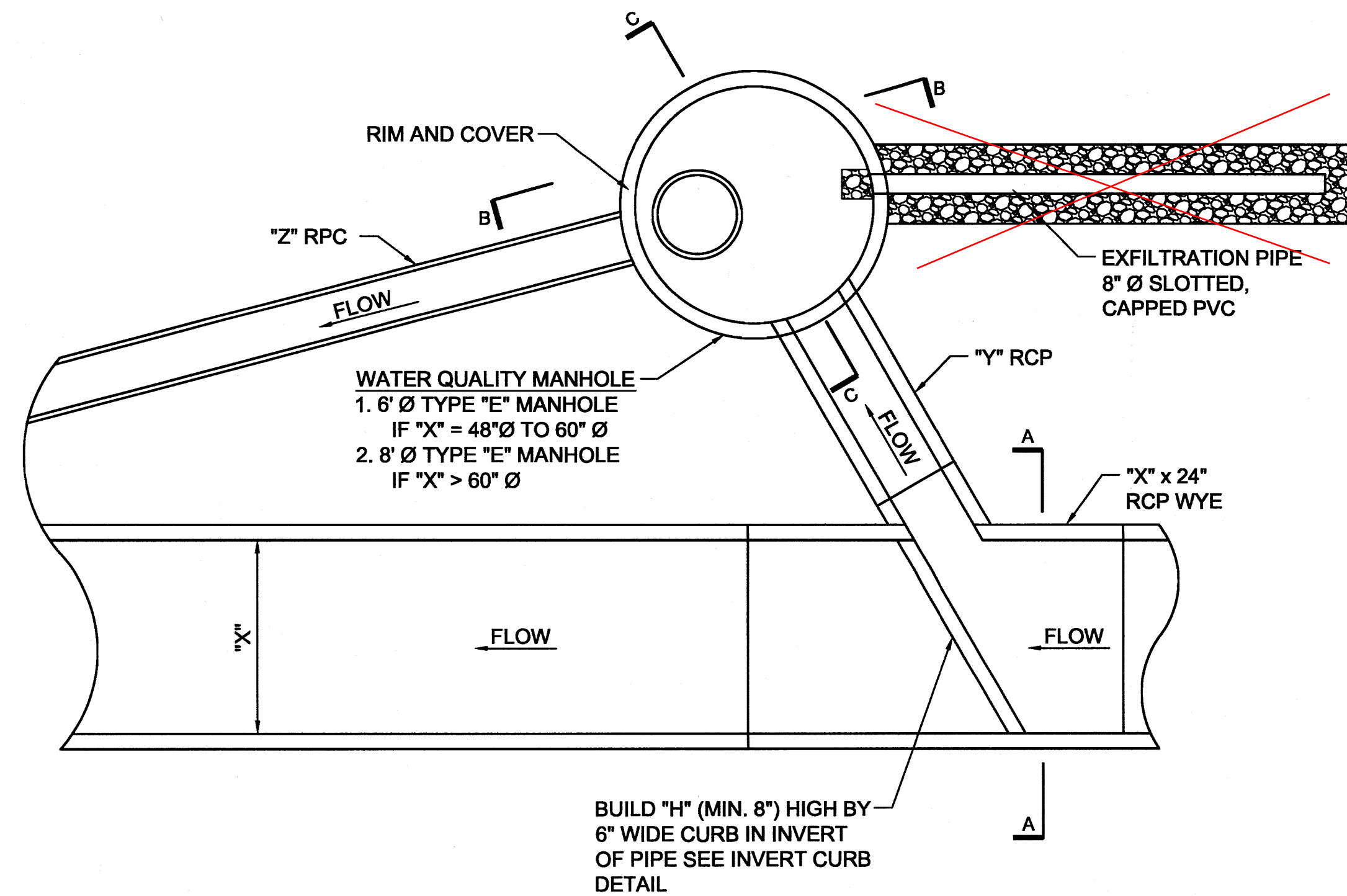
| | DIMENSION "B" | | | | | | | |
|--|------------------------|-----|-------|-------|-------|-------|-------|-------|
| | PIPE DIAMETER (INCHES) | | | | | | | |
| | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 |
| | 10" | 11" | 1'-1" | 1'-2" | 1'-3" | 1'-4" | 1'-6" | 1'-8" |

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.

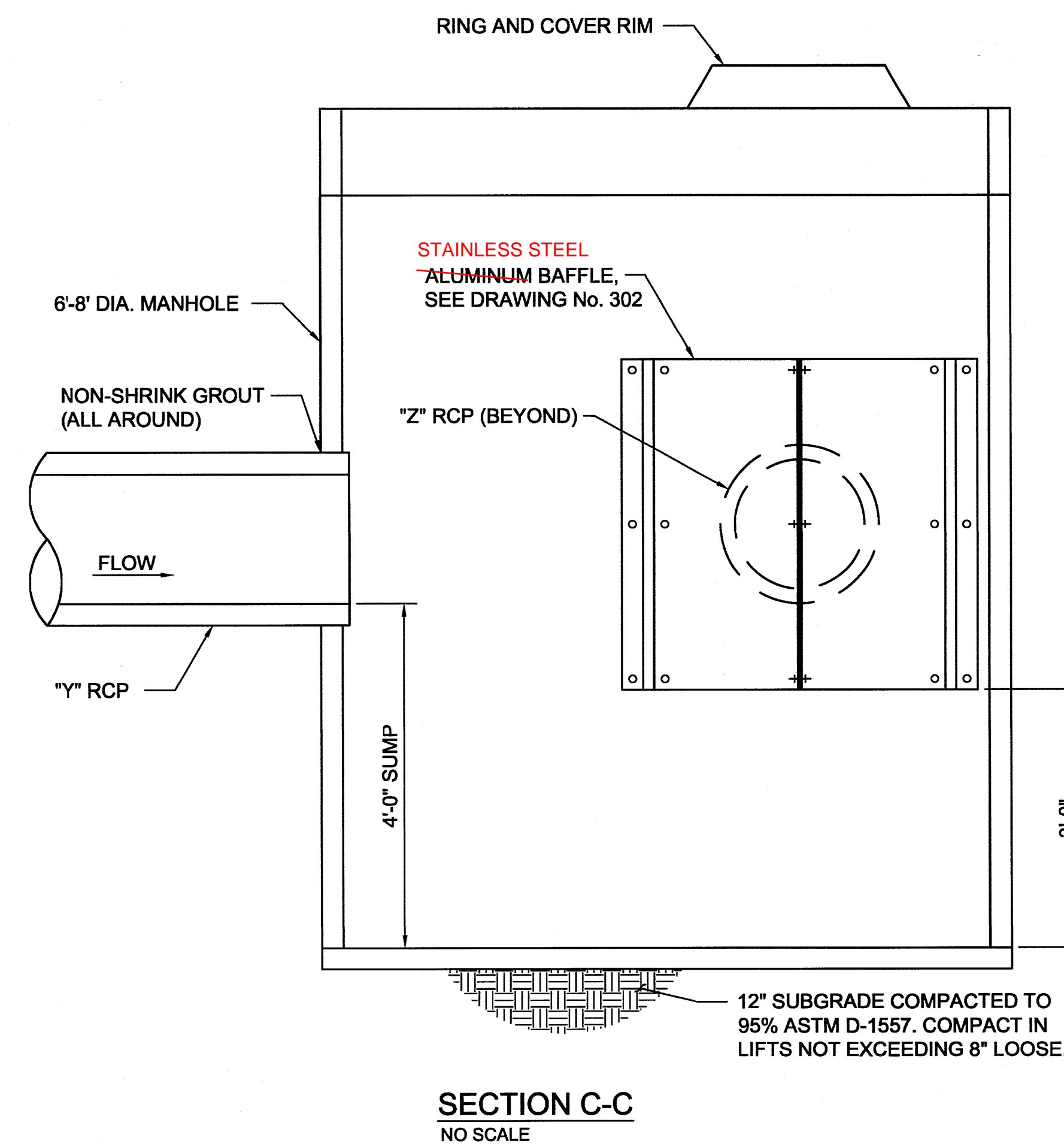
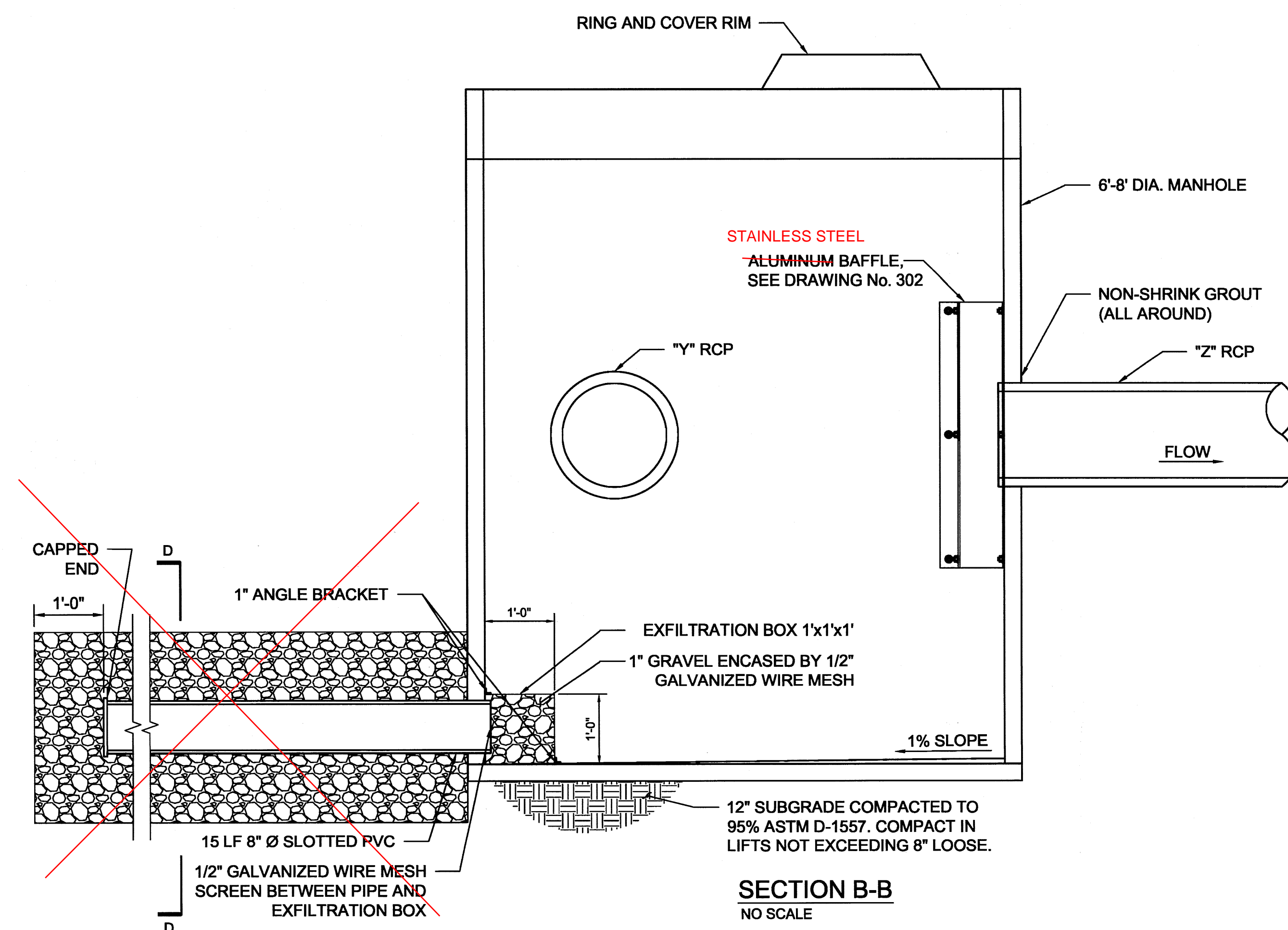
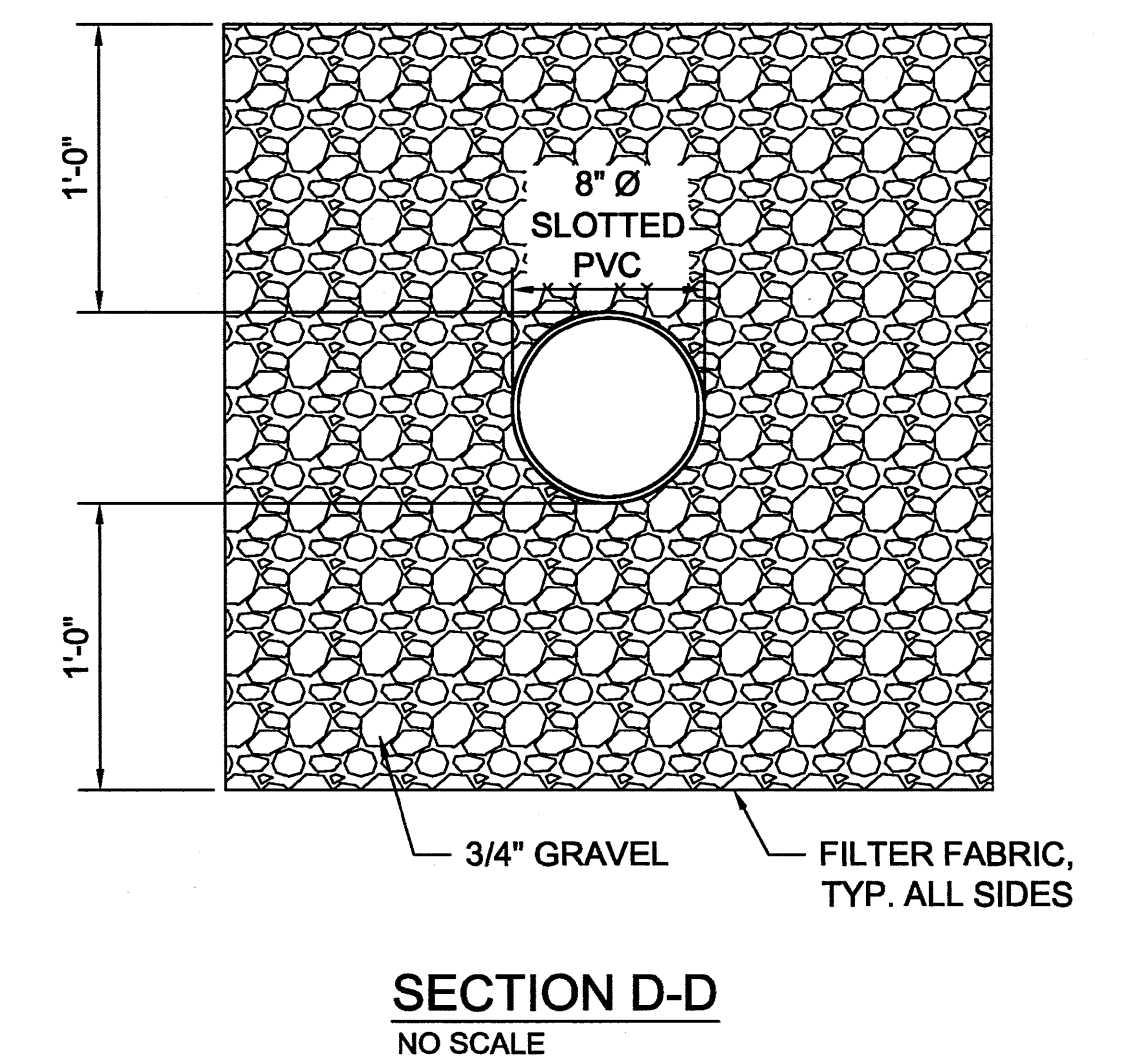
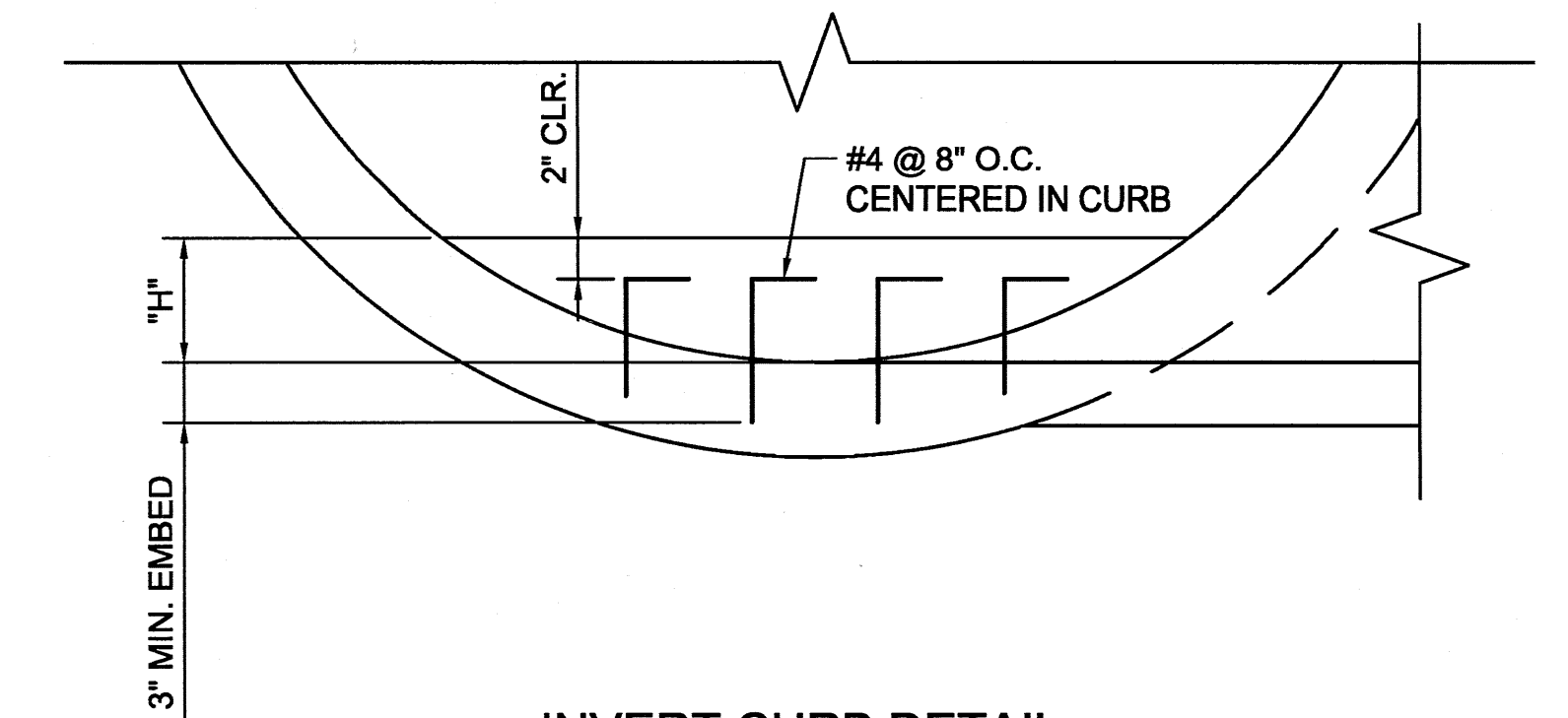


| | | | |
|--|------|-------------|----------------|
| ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY | | | |
| AMAFCA STANDARD DETAILS | | | |
| RCP CHANNEL PENETRATION PIPE DIAMETER > 12", 0° SKEW | | | |
| REV | DATE | DESCRIPTION | CHKD |
| | | | |
| DRAWING NO. | 103 | MAP NO. | SHEET 20 OF 32 |

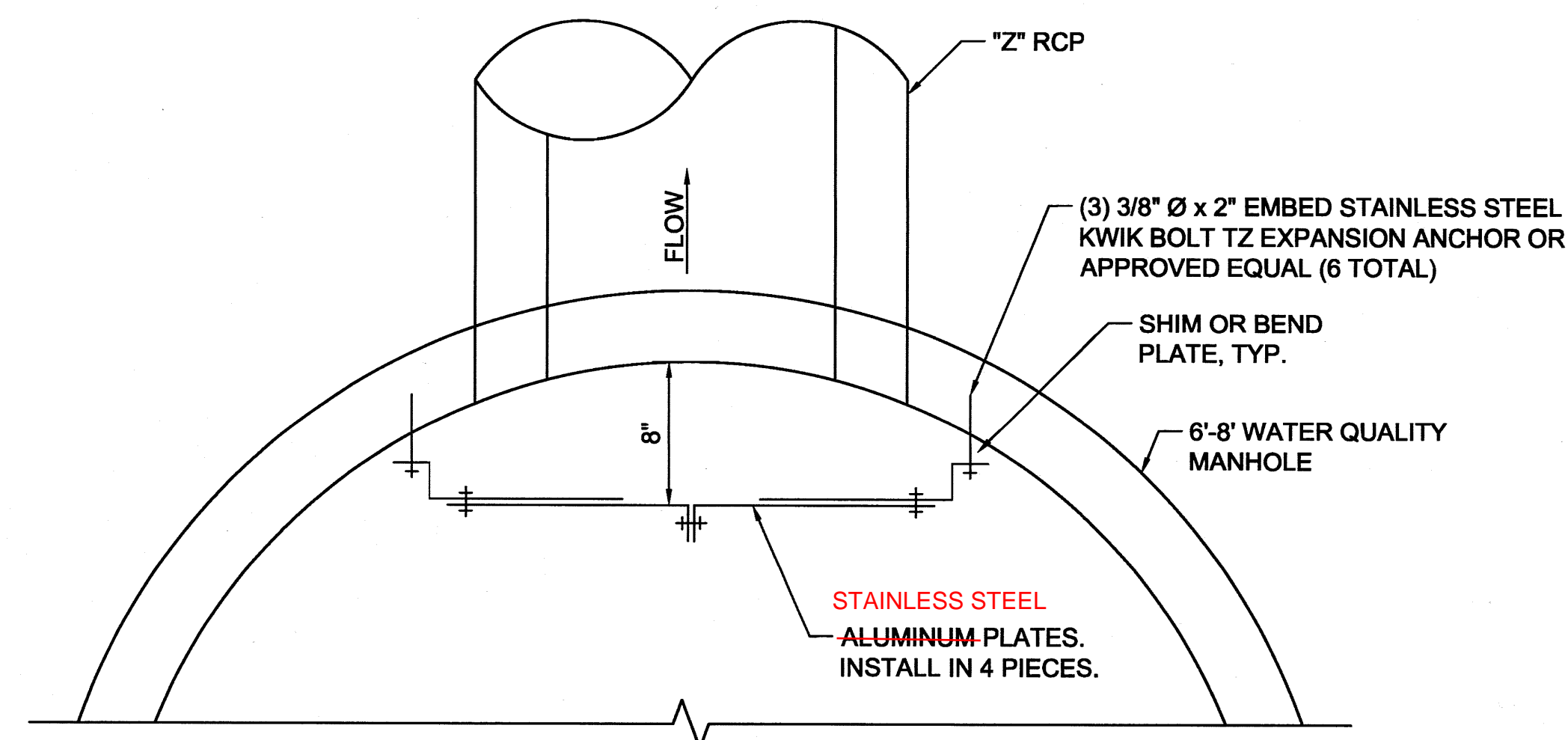


NOTES:

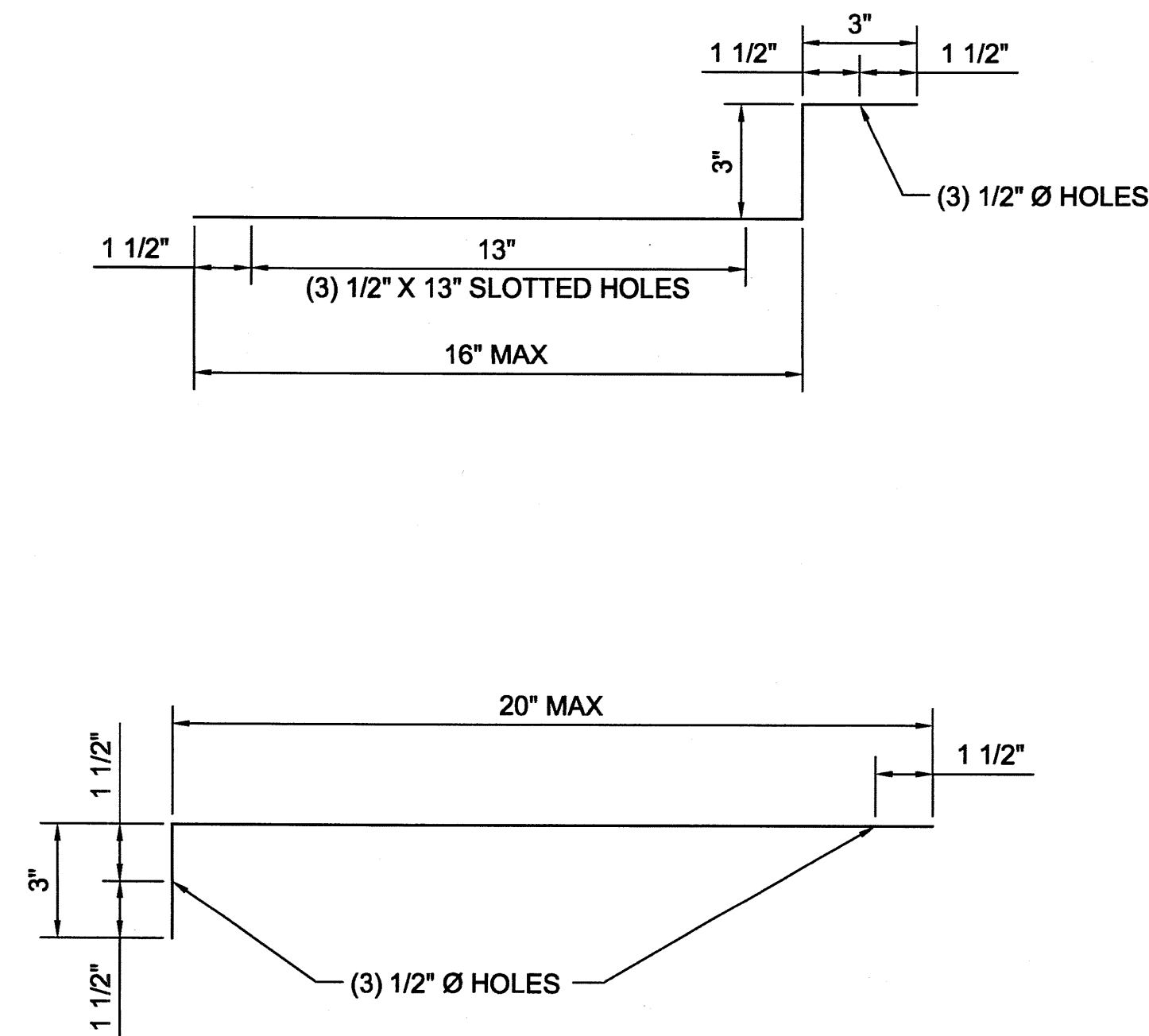
1. DIMENSIONS/SIZES "H", "X", "Y", AND "Z" SHALL BE DETERMINED BY THE PROJECT ENGINEER.
2. WHEN FEASIBLE, THE 8" EXFILTRATION PIPE MAY BE DISCHARGED INTO AN ADJACENT CHANNEL AT A LOCATION DETERMINED BY THE PROJECT ENGINEER AND SHOWN ON THE P & P SHEET.



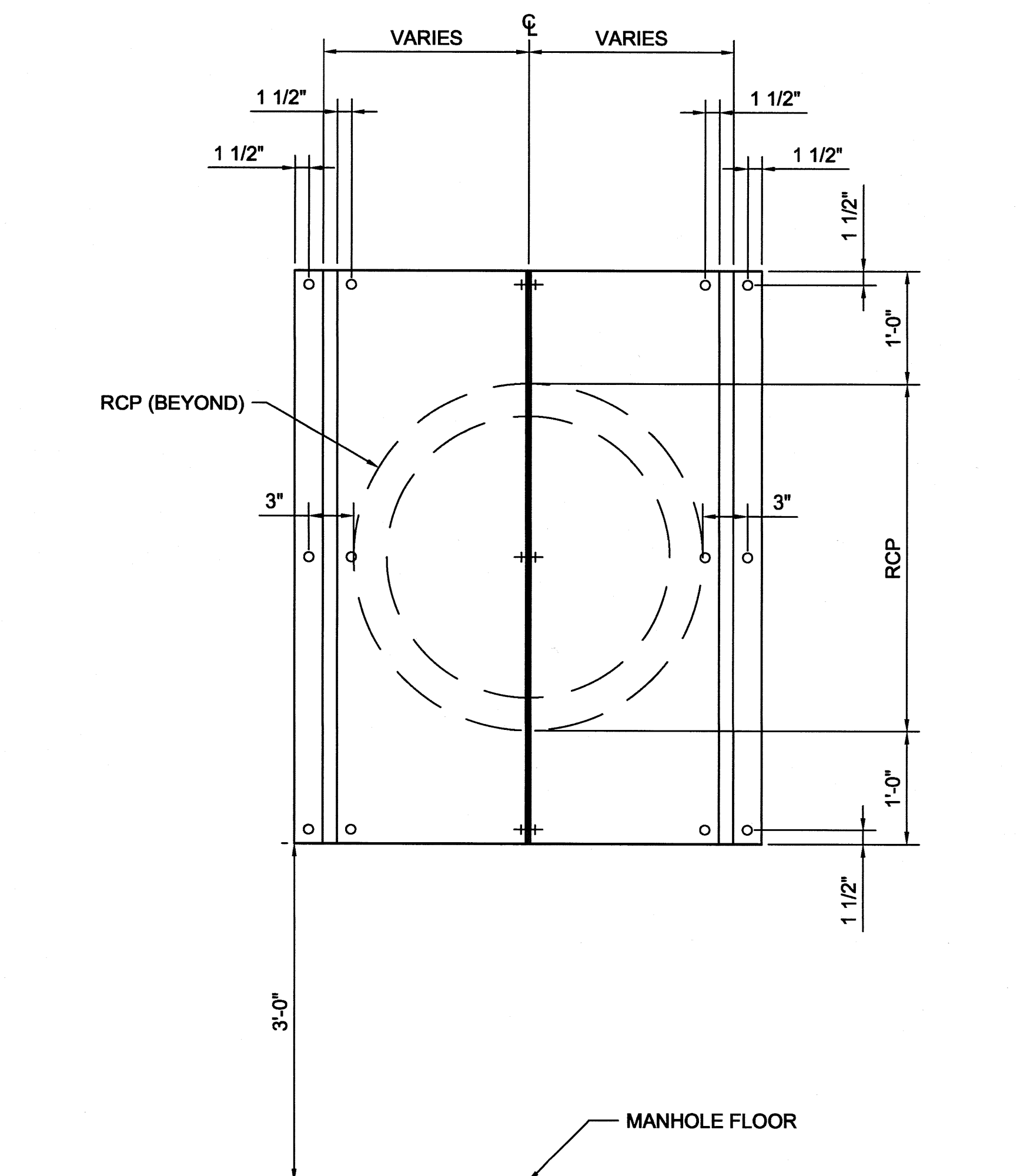
| | | | |
|--|------|-------------|----------------|
| ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY | | | |
| AMAFCA STANDARD DETAILS | | | |
| WATER QUALITY MANHOLE SECTIONS AND DETAILS | | | |
| REV | DATE | DESCRIPTION | CHKD |
| | | | |
| DRAWING NO. 301 | | MAP NO. | SHEET 21 OF 32 |



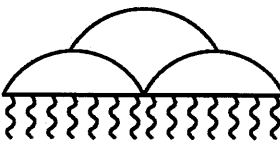
STAINLESS STEEL
~~ALUMINUM~~ BAFFLE PLAN
NO SCALE

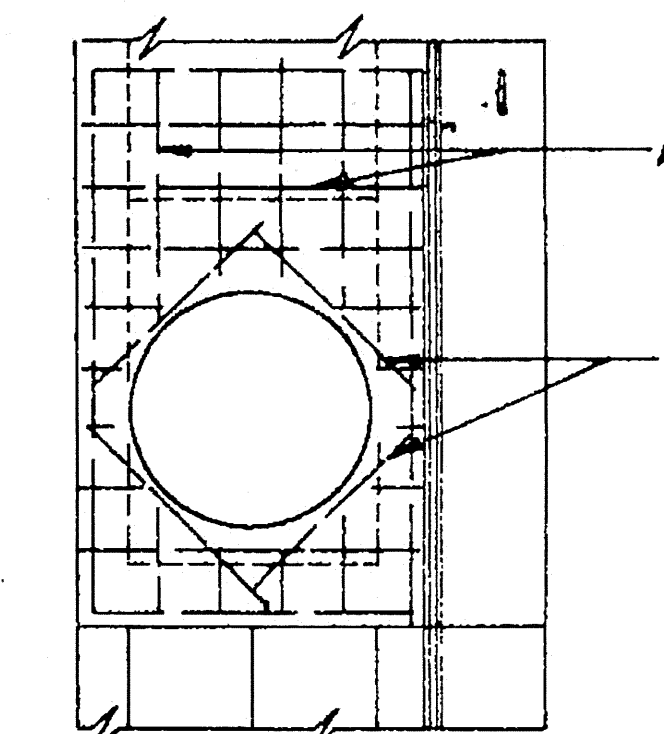
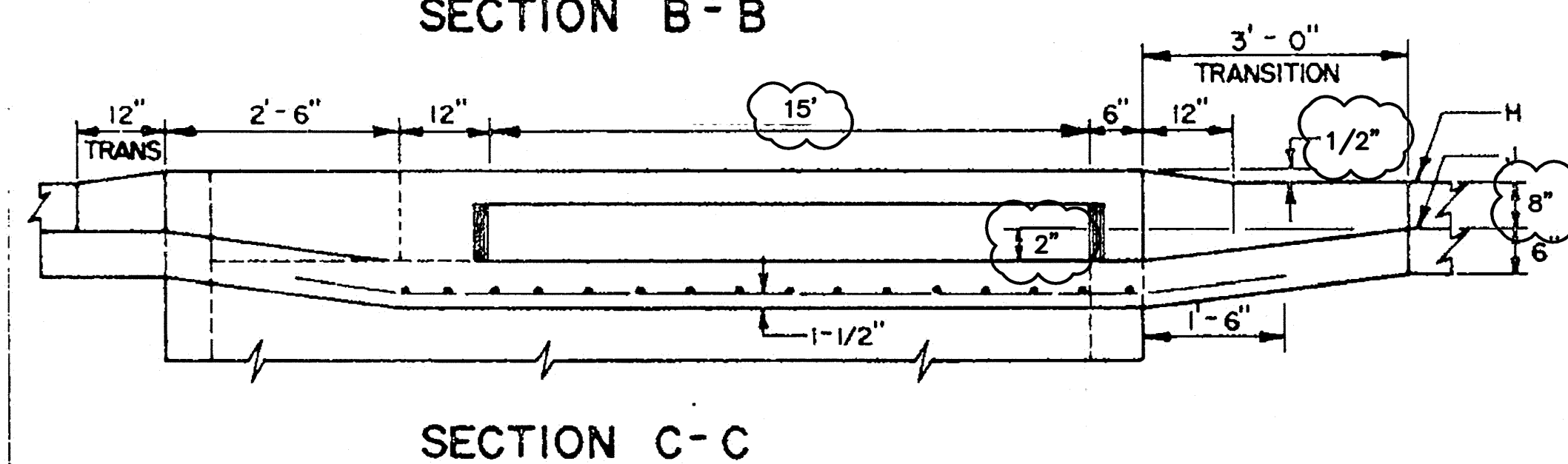
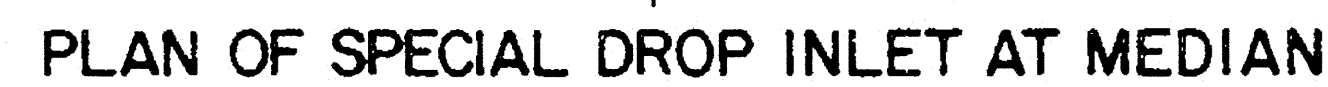


STAINLESS STEEL
~~ALUMINUM~~ PLATE BEND DIAGRAM
NO SCALE



STAINLESS STEEL
~~ALUMINUM~~ BAFFLE ELEVATION
NO SCALE

| | | | |
|---|------|-------------|----------------|
|  ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY | | | |
| AMAFCA STANDARD DETAILS | | | |
| WATER QUALITY MANHOLE BAFFLE DETAILS | | | |
| REV | DATE | DESCRIPTION | CHKD |
| | | | |
| DRAWING NO. | 302 | MAP NO. | SHEET 22 OF 32 |



TOP MAT OF
REINFORCEMENT

GENERAL NOTES

1. FOR STORM INLET GUTTER TRANSITION,
SEE STD. DETAIL DWG. 2207.
2. OUTLET PIPE SIZE, PER DESIGN
REQUIREMENT.

CONSTRUCTION NOTES

- A. NO. 4 REBAR @ 6" O.C. EACH WAY.
- B. EXTEND REBARS 1'-6" (TYP.)
- C. MANHOLE FRAME AND COVER PER. CITY OF ALBUQUERQUE STD. DETAIL DWG. 2110.
- D. 2 EACH, NO. 5 REBAR @ 6" O.C.
- E. 2" CHAMFER.
- F. INVERT PER PLAN.
- G. CONCRETE FILL.
- H. TOP OF MEDIAN CURB.
- J. FLOWLINE.
- K. CONCRETE FILL 4:1 MINIMUM SLOPE TOWARDS OUTLET AND 12:1 TRANSVERSE.
- L. NO. 4 REBARS, 8 EACH.
- M. OUTLET STORM DRAIN.
- N. 6" MINIMUM OPENING

CITY OF ALBUQUERQUE

DRAINAGE

MEDIAN STORM INLET

DWG.2273

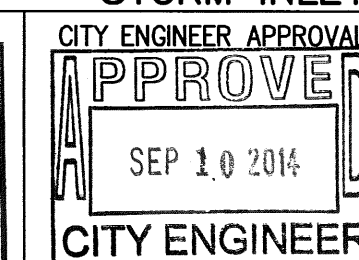
JUNE 1992

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CITY OF ALBUQUERQUE
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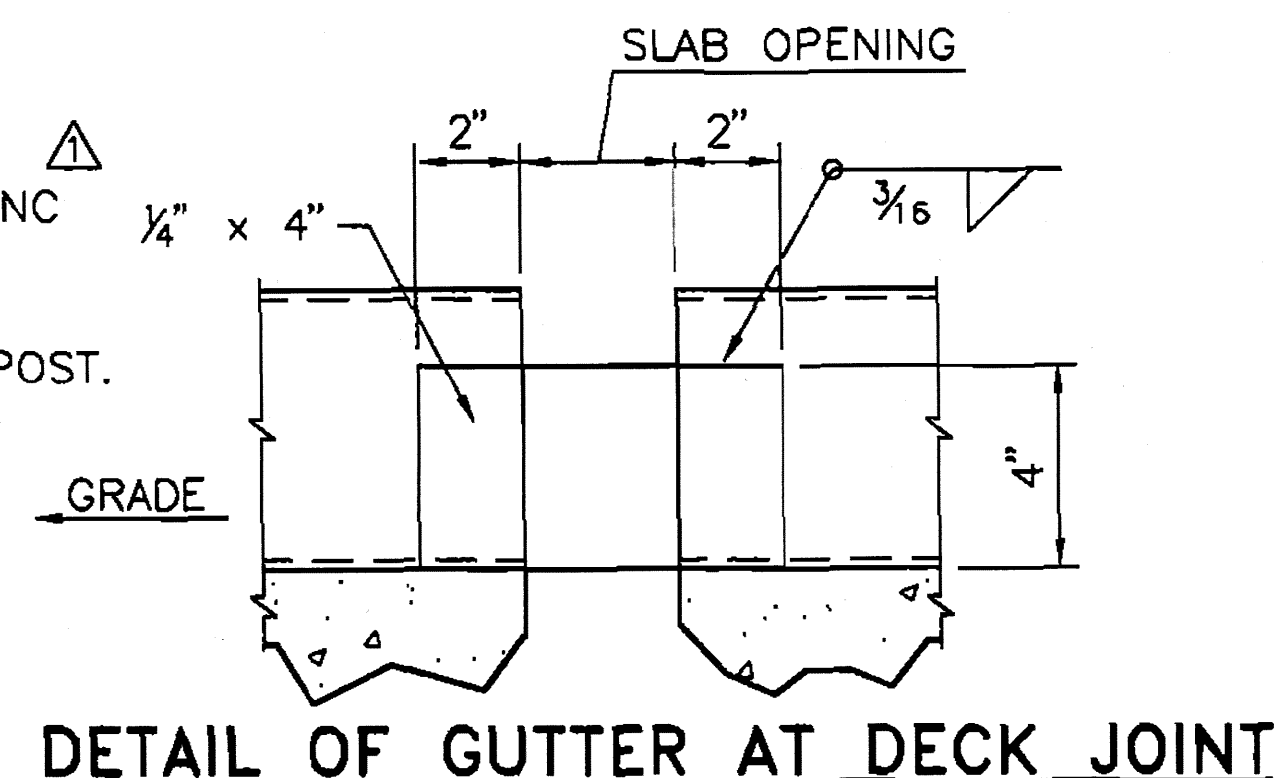
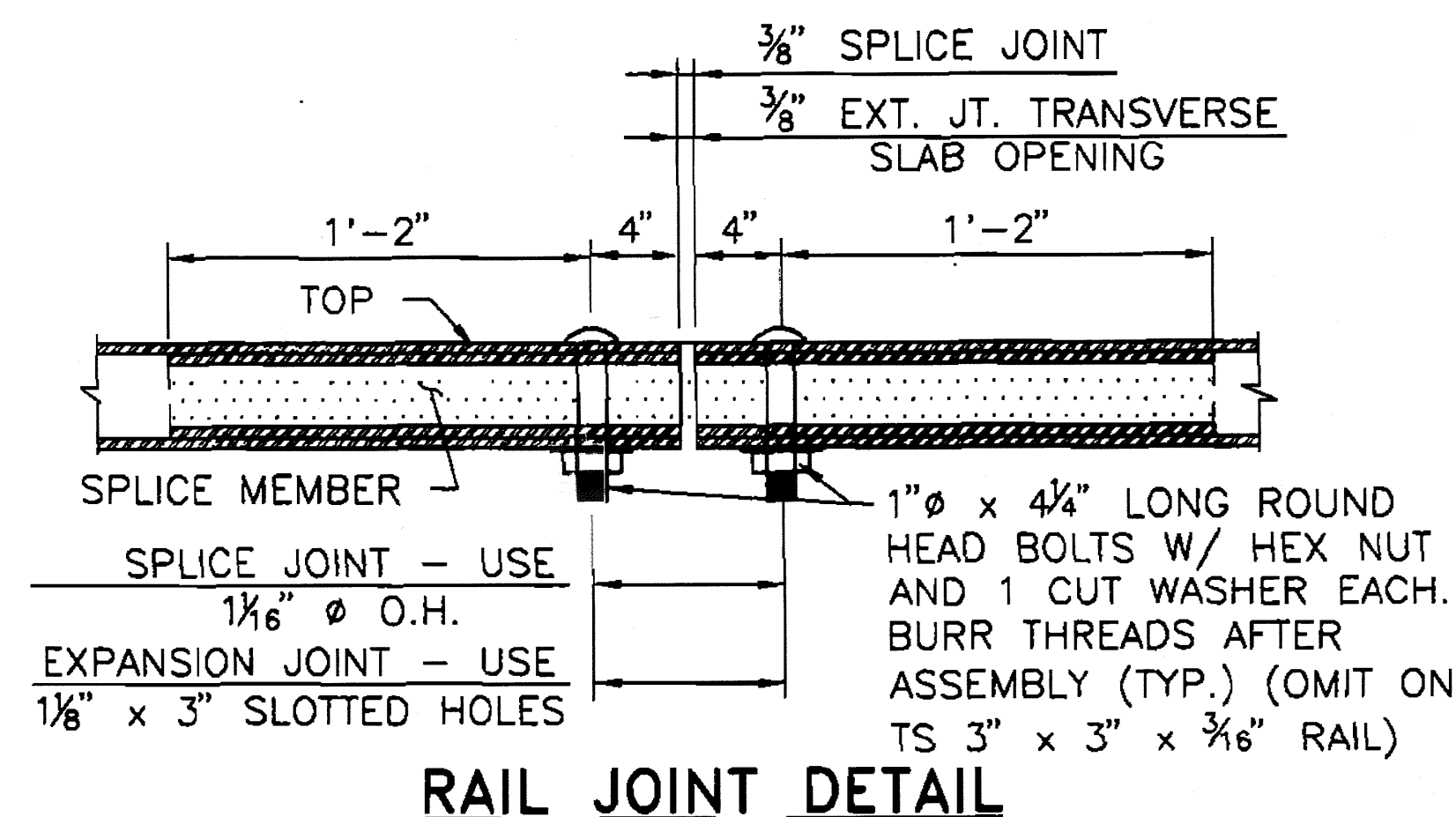
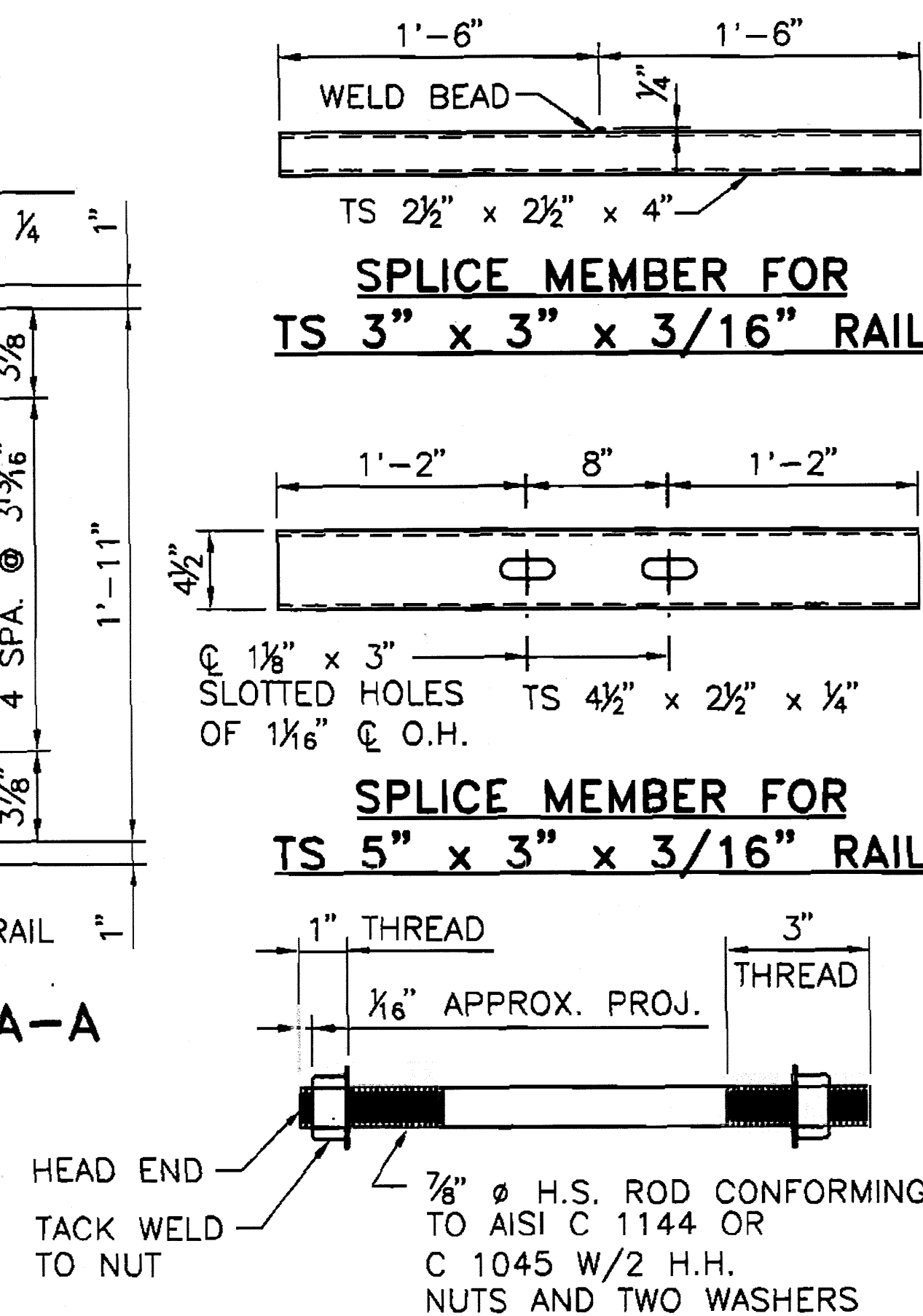
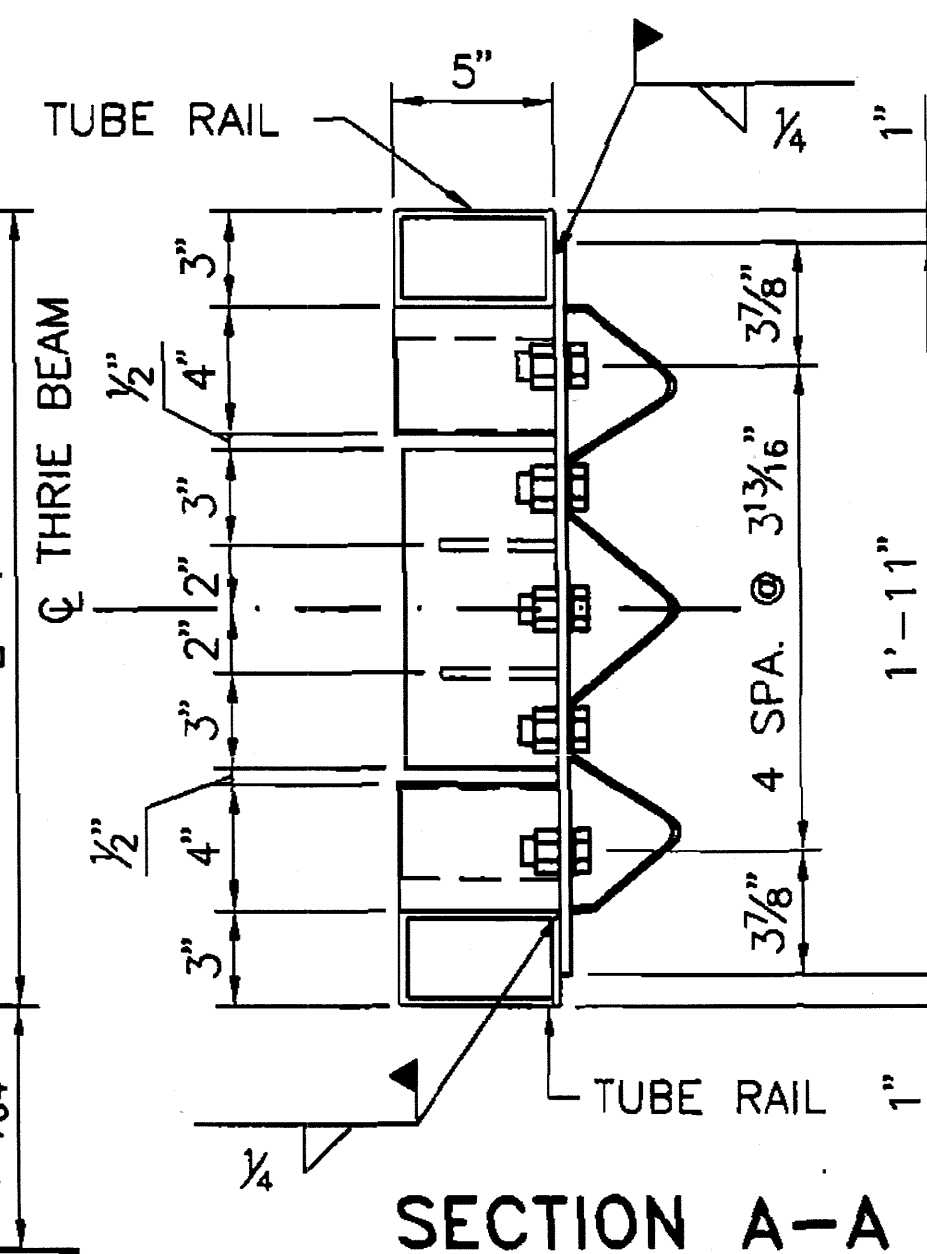
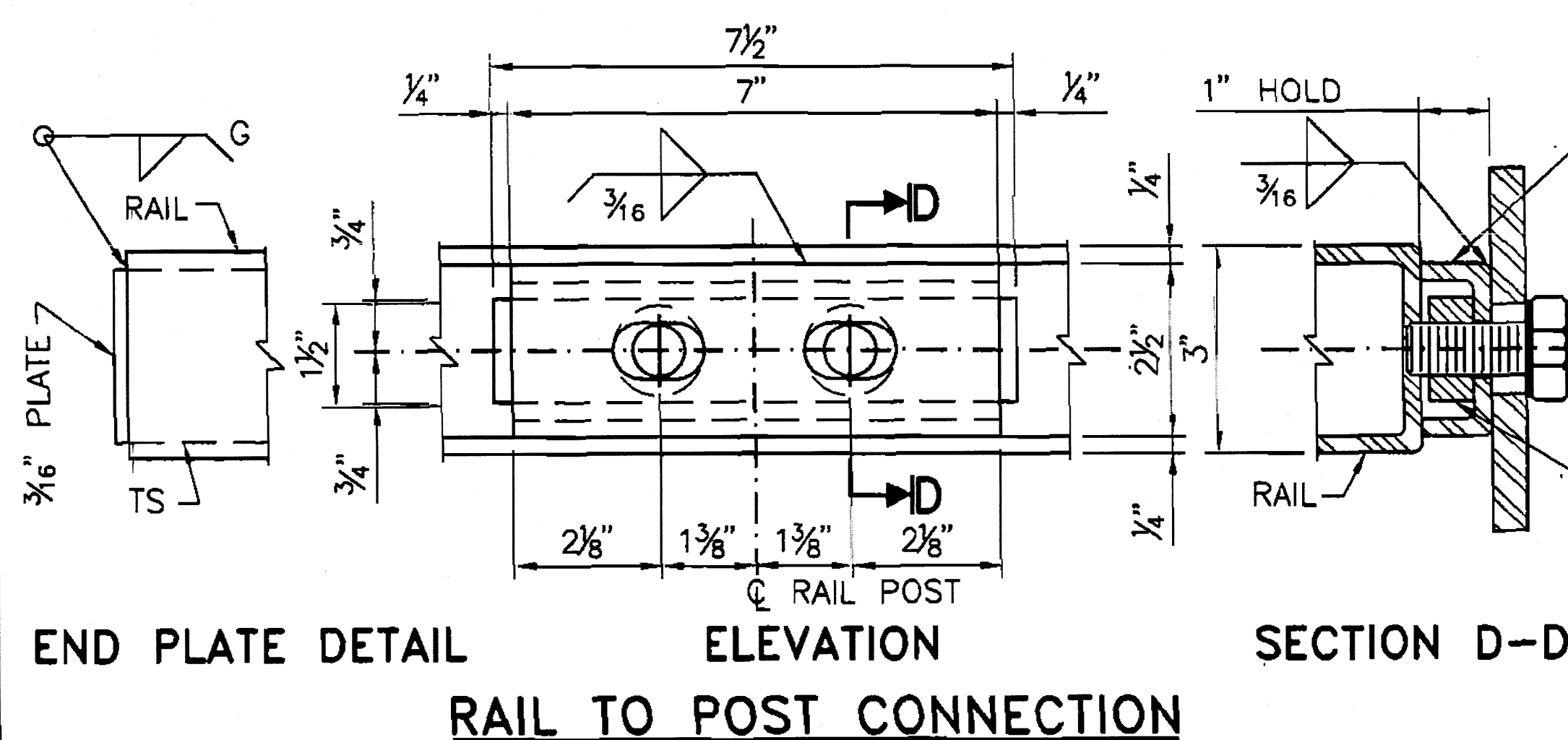
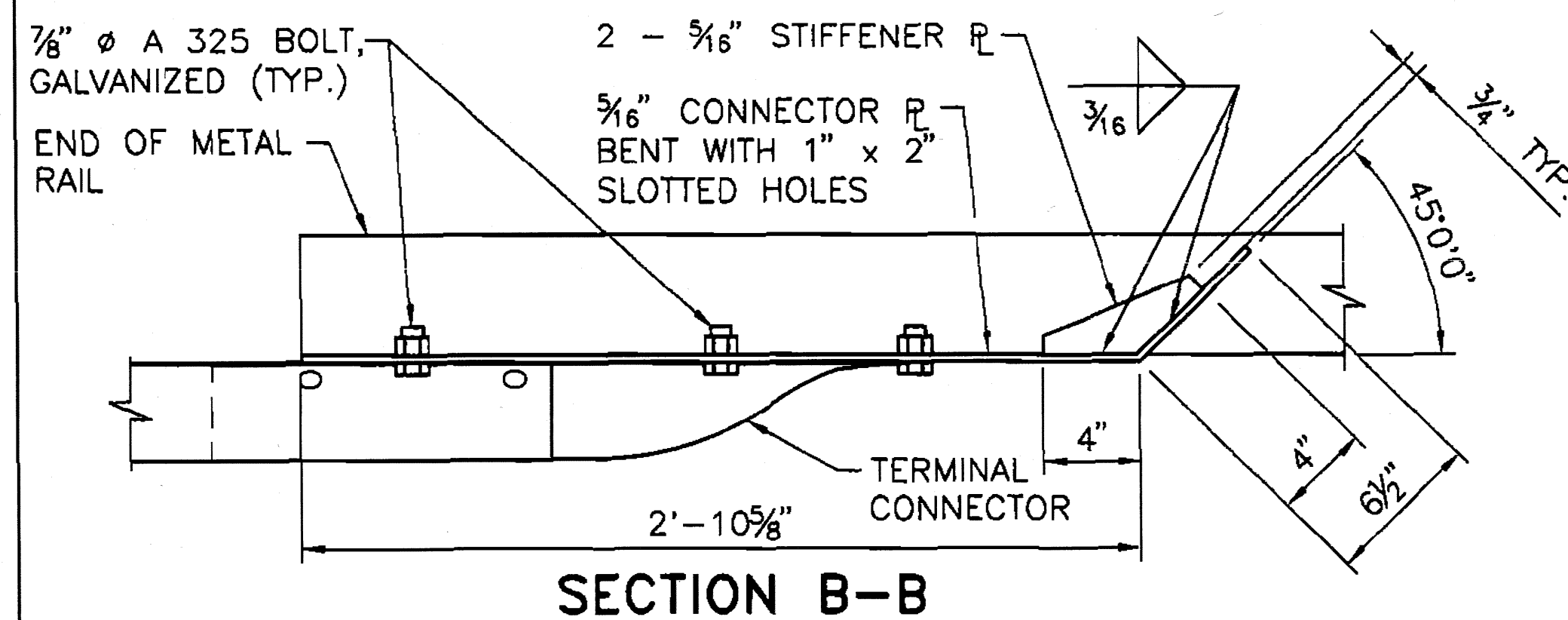
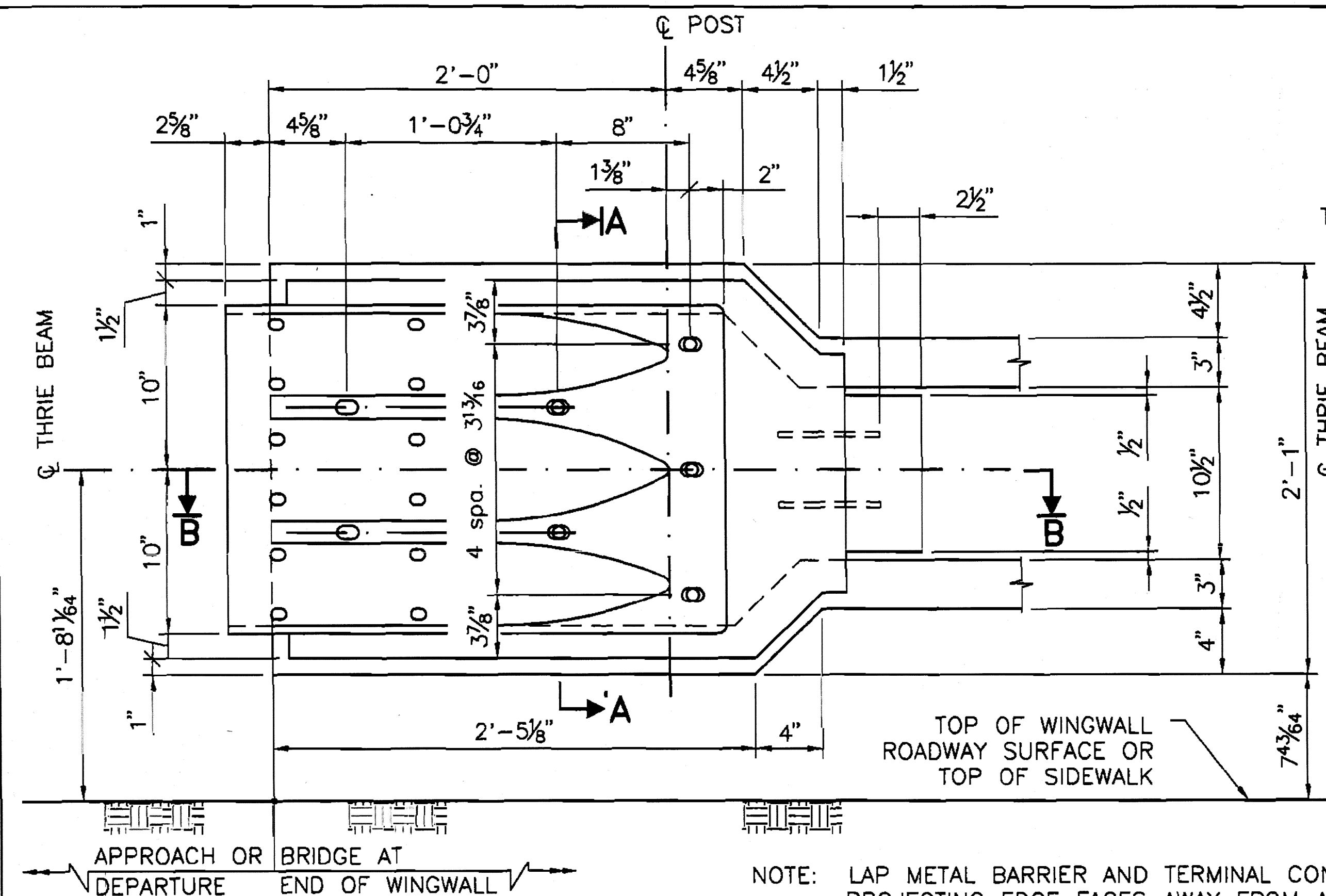
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City Project No.
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Zone Map No.
L15

Sheet 23 OF 32

**PARSONS
BRINCKERHOFF**



GENERAL NOTES:

1. DESIGN IS IN ACCORDANCE WITH THE 1996 AASHTO SPECIFICATIONS.
2. SEE STRUCTURE DETAILS FOR POST SPACING AND OTHER DETAILS NOT SHOWN.
3. DETAILS SHOWN ARE FOR STEEL ONLY. A STEEL OR ALUMINUM RAILING OF AN ALTERNATIVE DESIGN MAY BE SUBSTITUTED FOR THE RAILING SHOWN ON THESE SHEETS PROVIDED THE ALTERNATIVE DESIGN IS APPROVED BY THE ENGINEER BEFORE FABRICATION.
4. ALL STEEL RAIL TUBES SHALL CONFORM TO THE REQUIREMENTS OF THE ASTM DESIGNATION A 500 OR A 501. POST SPACING SHOWN ON THE PLANS IS BASED ON THE USE OF HSS 5" x 3" x 3/16" CONFORMING TO THE REQUIREMENTS OF ASTM DESIGNATION A500 GRADE B.
5. METAL RAILING WILL BE PAID FOR AT THE UNIT PRICE FOR LINEAR FOOT.
6. PROVIDE A WATERPROOF SEAL WITH CAULKING COMPOUND UNDER ALL BASE PLATES AND GUTTER CHANNELS. CAULKING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-S-230 C OR TT-S-001543 A.
7. FOR POST CONNECTION TO BRIDGE SLAB, USE BEVEL WASHERS WITH 5% SLOPE WHEN TOP AND BOTTOM OF CONCRETE DIVERGE BY MORE THAN 3%. IF DIVERGENCE EXCEEDS 7%, SPECIAL DETAILS WILL BE SHOWN ON THE BRIDGE PLANS.
8. TERMINAL CONNECTORS SHALL BE AASHTO-ARBA STANDARD HM-TF 13/RE-67 FOR THREE-BEAM WITH CLASS B THICKNESS, AND SHALL BE GALVANIZED (M180, CLASS B, TYPE 2).
9. SERIAL 543-01-1/1 MUST ACCOMPANY SHEETS 543-02-1/1, 543-03-1/2, AND 543-03-2/2.
10. THE UTILIZATION OF METAL RAILING TYPE A AND TYPE D SHALL NOT BE ALLOWED WHEN THE DESIGNED VELOCITY OF THE VEHICLES ON THE BRIDGE IS GREATER THAN 45 MPH.
11. ALL RAILS TO BE PARALLEL TO GRADE UNLESS OTHERWISE SHOWN.

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| 3 | 9/18/09 | YML | REVISED NOTE #4. |
| 2 | 9/16/09 | YML | REPLACED NOTE #10. |
| 1 | 8/18/08 | YML | CORRECTED THE NOTE FOR HOLES. |
| NO. | DATE | REV. BY | DESCRIPTION |
| REVISIONS (OR CHANGE NOTICES) | | | |

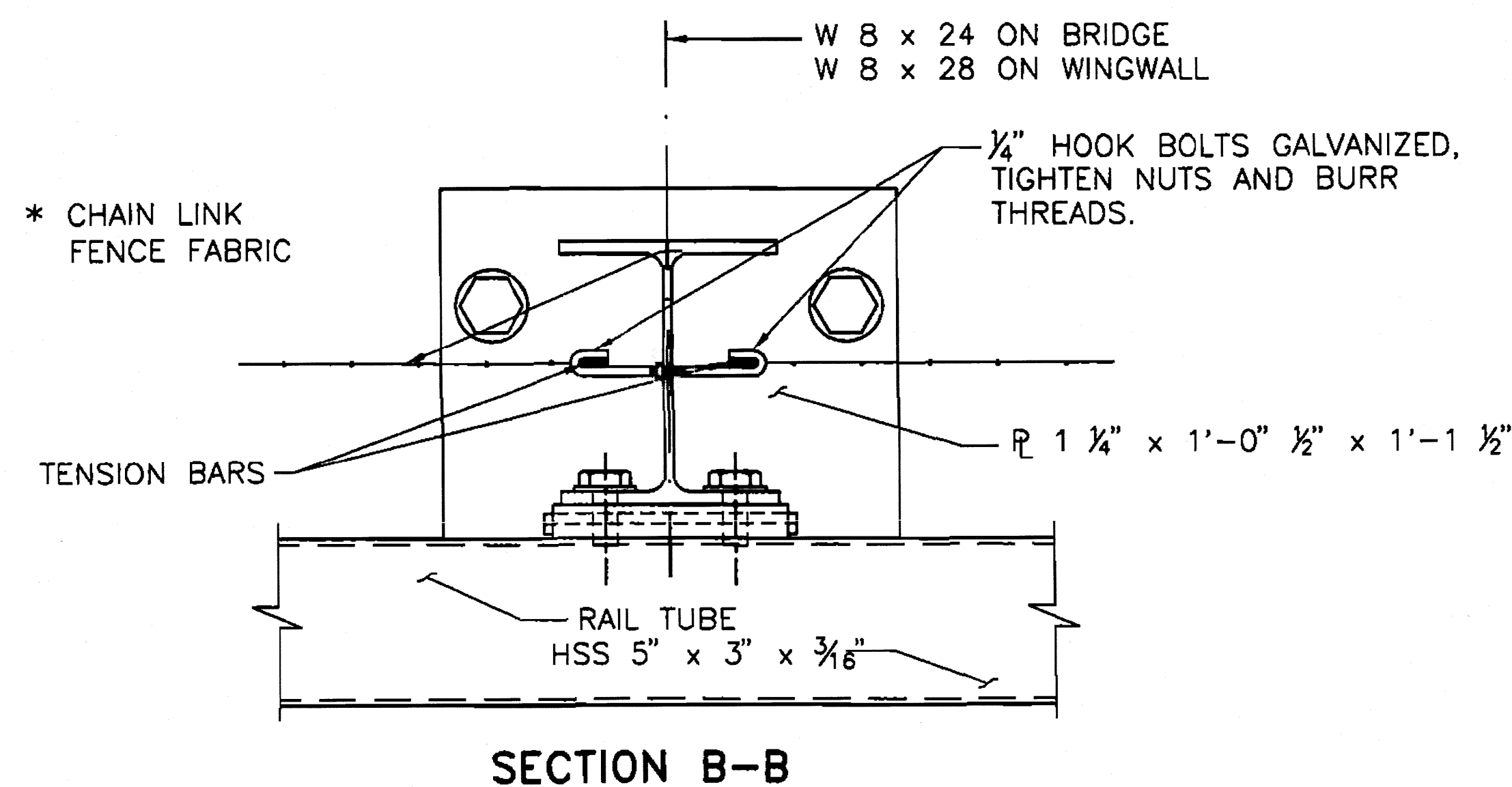
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

METAL RAILING GENERAL NOTES AND TYPICAL DETAILS

DESIGNED BY _____ DRAWN BY SKL CHECKED BY YML

543-01-1/1 SHEET 24 OF 32

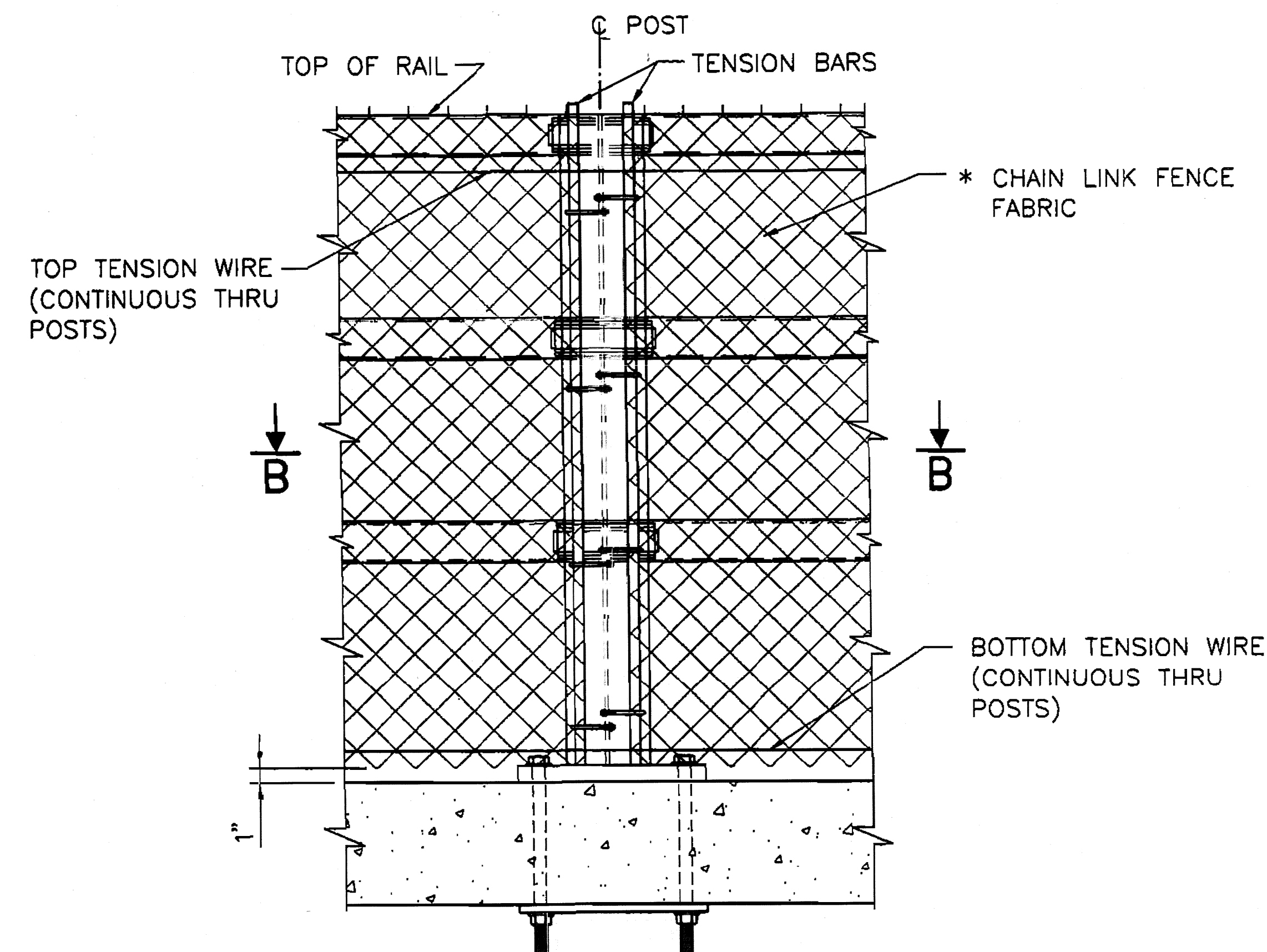




NOTES:

PROVIDE 1/4" GALVANIZED HOOK BOLTS AT END POSTS TO ANCHOR TENSION BARS (TYP.).

* SEE SECTION 607 OF THE STANDARD SPECIFICATIONS.



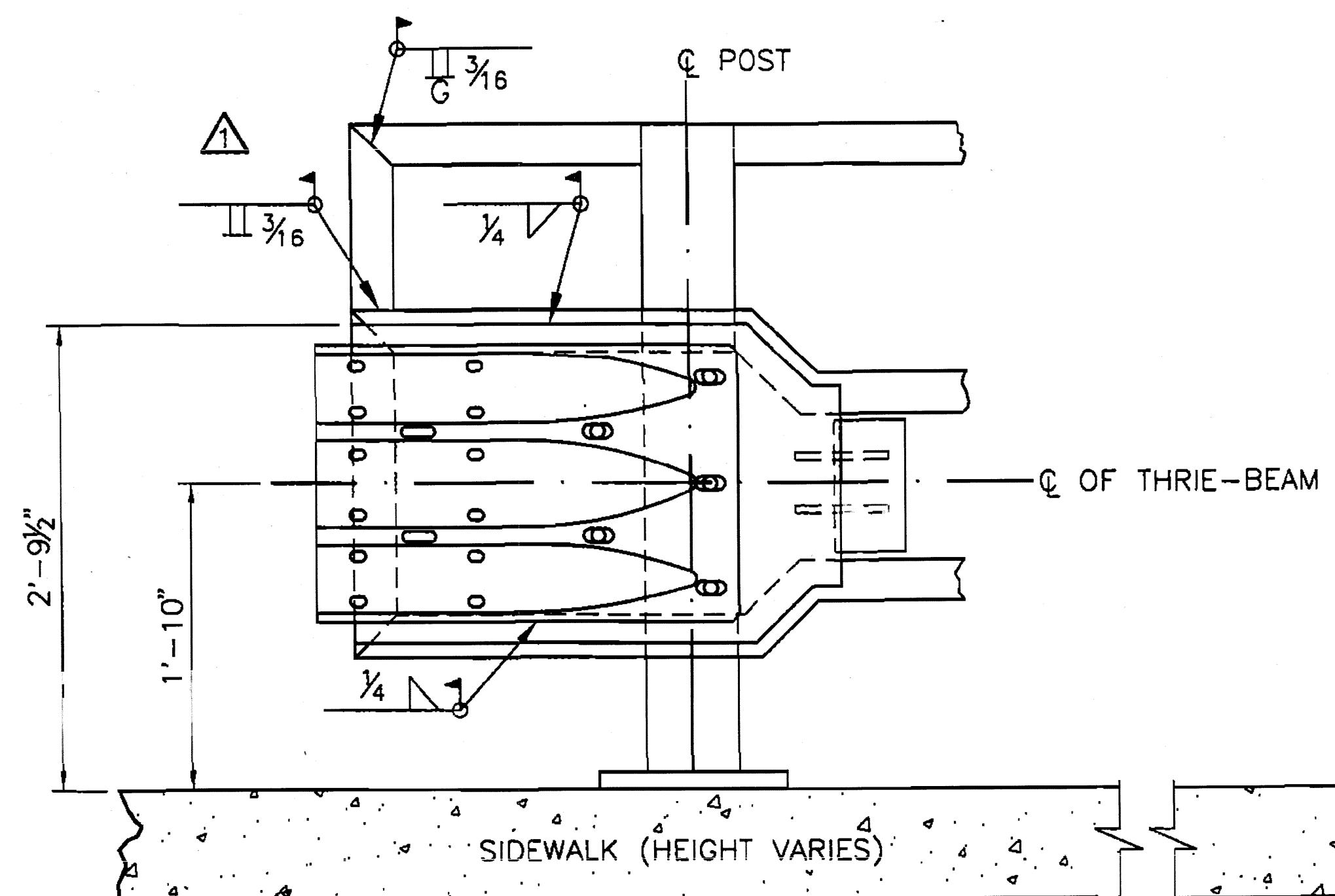
ELEVATION

NOTE: SERIAL 543-03-1/2 MUST ACCOMPANY THIS SHEET.

NOTE: THE UTILIZATION OF METAL RAILING TYPE D SHALL NOT BE ALLOWED WHEN THE DESIGN SPEED ON THE BRIDGE IS GREATER THAN 45 MPH.

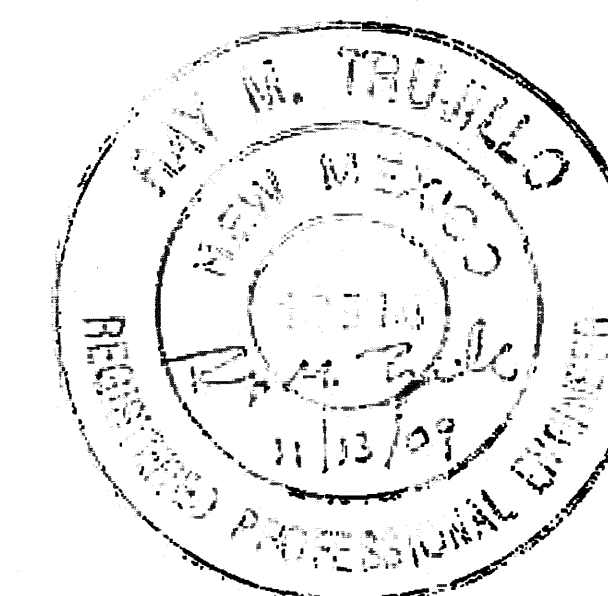
NOTES:

- FOR GENERAL NOTES AND DETAILS NOT SHOWN ON THIS SHEET, SEE 543-01-1/1.
- TENSION WIRES TO BE 0.177 GALVANIZED COIL SPRING WIRE.
- FABRIC IS TO BE ATTACHED TO TENSION WIRES WITH 0.120 GALVANIZED HOG RINGS SPACED 2'-0".
- CHAIN LINK FENCE FABRIC, TENSION BARS, HOOK BOLTS, TENSION WIRE, HARDWARE AND APPURTENANCES ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR METAL RAILING TYPE D.
- SERIAL 543-01-1/1 MUST ACCOMPANY THIS SHEET.

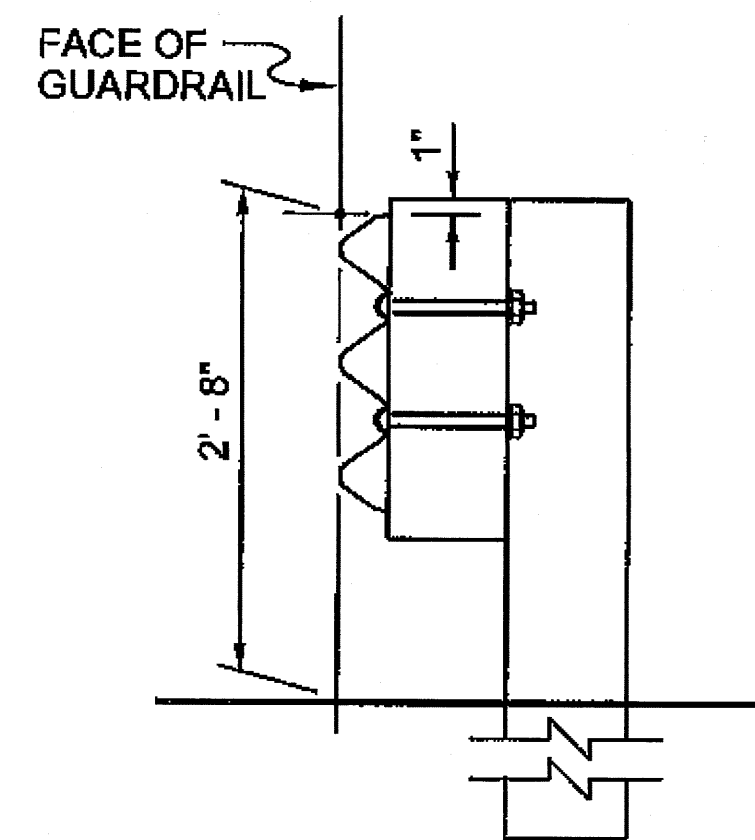


NOTE: SEE "THRIE BEAM METAL BARRIER CONNECTOR" AND "SECTION A-A" ON SERIAL 543-01-1/1 FOR DIMENSIONS NOT SHOWN.

DETAILS FOR THRIE-BEAM CONNECTOR TO TYPE D METAL BRIDGE RAILING



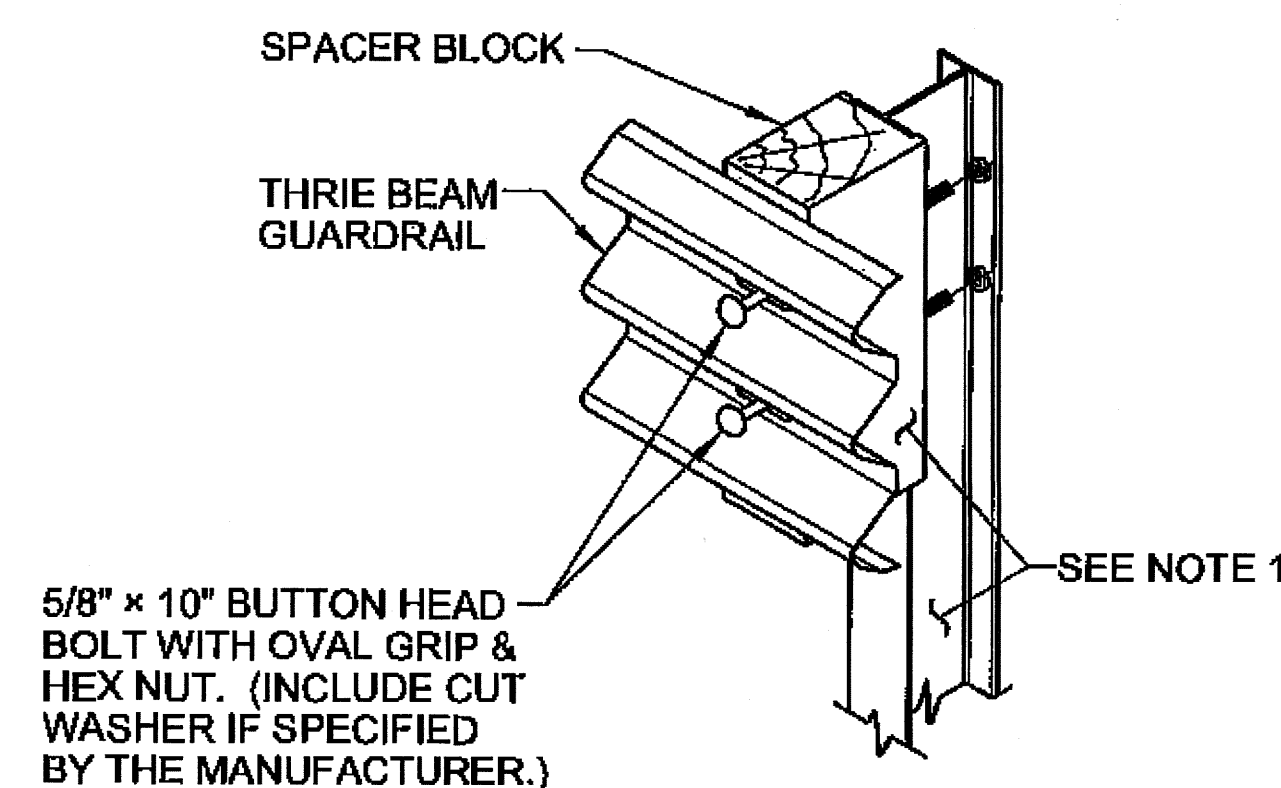
| NO. | DATE | REV. BY | DESCRIPTION |
|--|----------|---------|--|
| 1 | 9/17/09 | YML | ADDED NOTE. |
| 2 | 10/23/08 | YML | ADDED & REVISED WELDING SYMBOLS & SIZES. |
| REVISIONS (OR CHANGE NOTICES) | | | |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | |
| METAL RAILING TYPE "D" DETAILS | | | |
| DESIGNED BY _____ DRAWN BY SKL CHECKED BY YML/TM | | | |
| 543-03-2/2 SHEET 26 OF 32 | | | |



RAIL ASSEMBLY

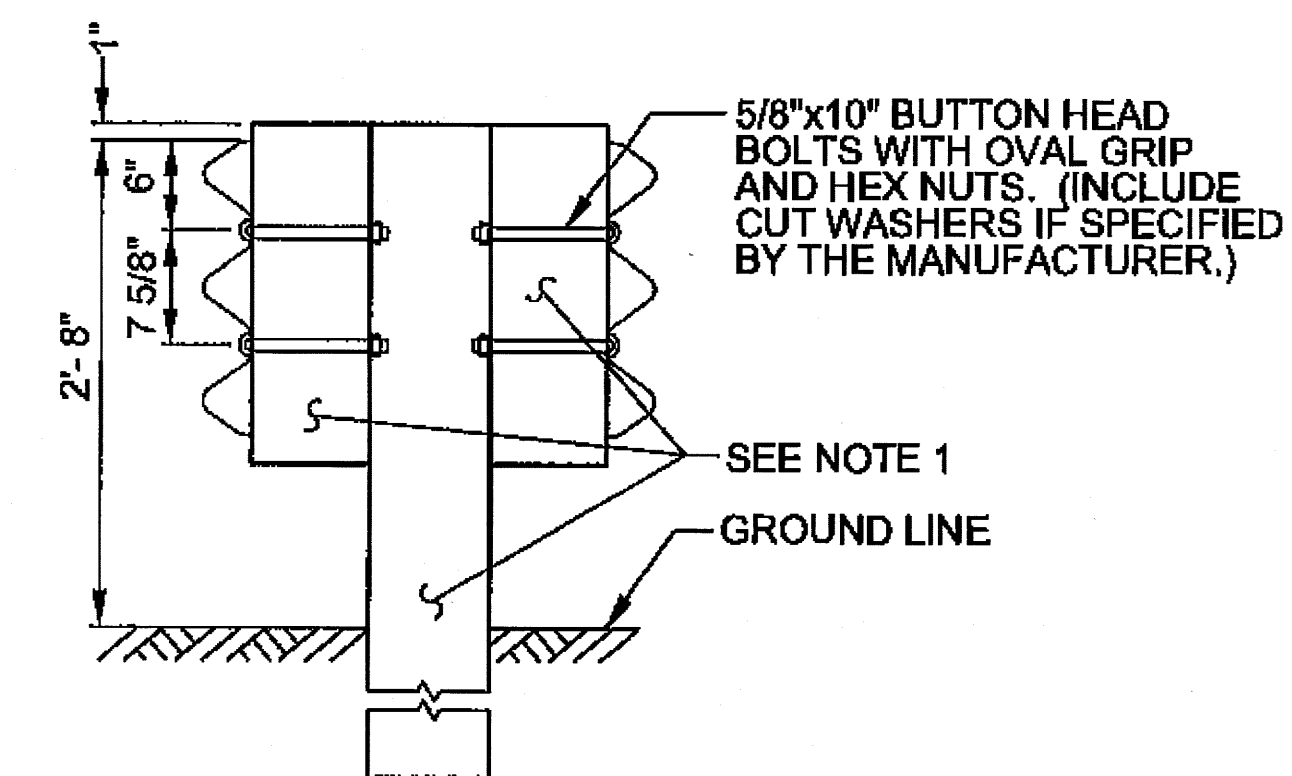
**SINGLE FACE THRIE
BEAM GUARDRAIL**

(PAID BY LIN. FT.)



STEEL POST ASSEMBLY

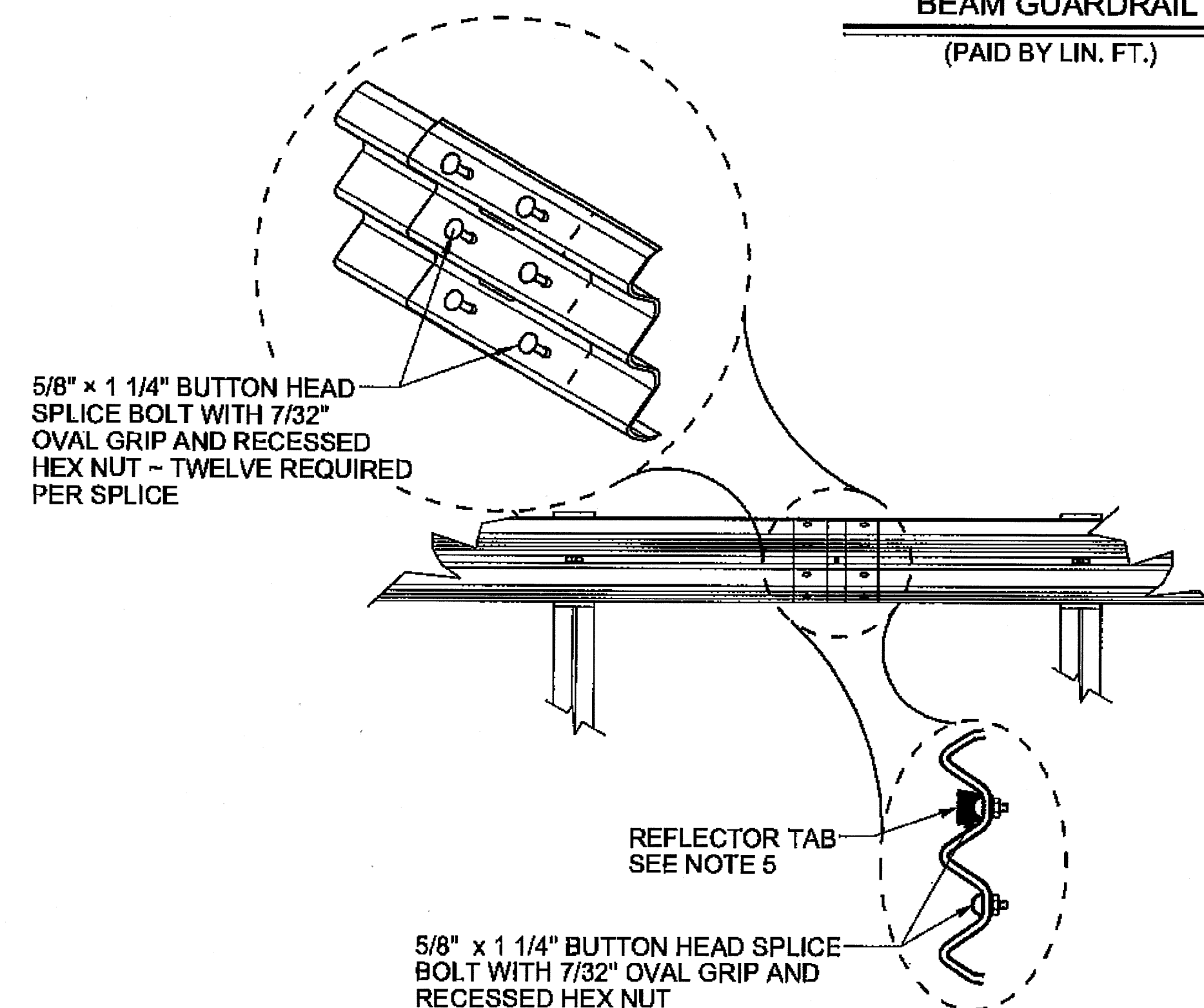
ASSEMBLY DETAIL THREE BEAM



STEEL POST ASSEMBLY

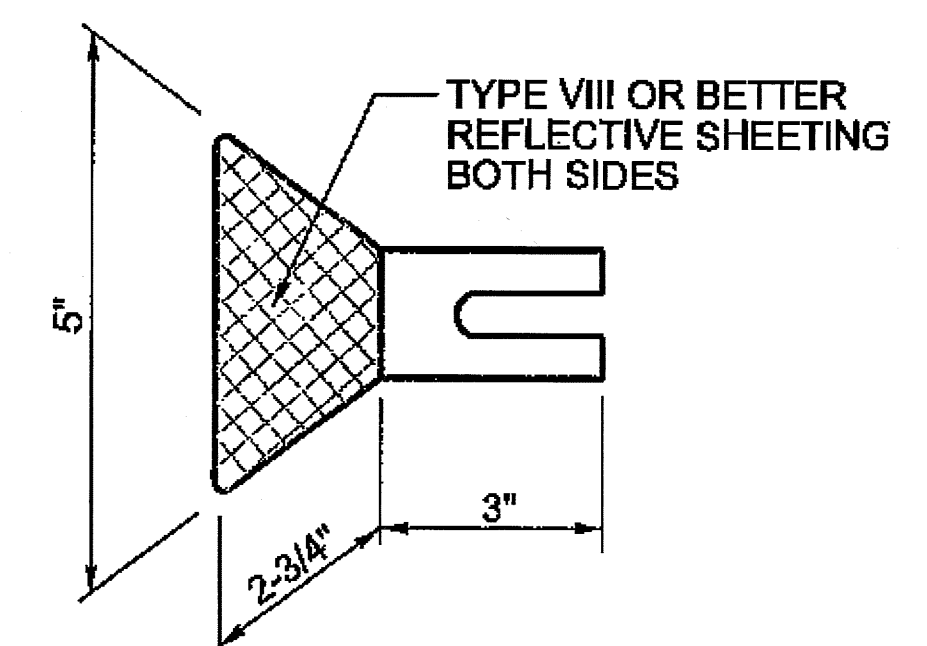
**DOUBLE FACE THRIE
BEAM GUARDRAIL**

(PAID BY LIN. FT.)



REFLECTOR TAB
SEE NOTE 5

5/8" x 1 1/4" BUTTON HEAD SPLICE
BOLT WITH 7/32" OVAL GRIP AND
RECESSED HEX NUT



REFLECTORIZED WASHER

REFLECTOR TAB
AT SPLICE

NOTES

- | | |
|---|---|
| <p>1. SINGLE AND DOUBLE FACE THRIE BEAM GUARDRAIL SHALL USE W6x15 STEEL POSTS. FOR ADDITIONAL DETAILS SEE SHEET 606-GR31-4/20.</p> <p>2. UNLESS OTHERWISE SPECIFIED THRIE BEAM GUARDRAIL POST SPACING SHALL BE 6' - 3" ON CENTER.</p> <p>3. BOLTS ARE TO BE INSTALLED AS SHOWN SO THAT THE THREADED END OF THE BOLTS AND NUTS ARE PLACED AWAY FROM TRAFFIC SIDE OF RAIL.</p> <p>4. DO NOT PLACE ANY WASHERS UNDER THE BOLTS ON THE TRAFFIC SIDE OF THE BARRIER.</p> <p>5. REFLECTOR TABS SHALL BE PLACED AT 25' INTERVALS (EVERY 25' AT SPLICE) ON ALL GUARDRAIL INSTALLATIONS (12'-6" ON 2 LANE HIGHWAY). THE COLOR OF THE REFLECTIVE SHEETING ON THE REFLECTOR TABS SHALL BE THE SAME AS THE COLOR OF THE SHOULDER LINE PAVEMENT MARKING IN FRONT OF THE BARRIER. TABS SHALL HAVE A MINIMUM OF 8.75 SQ. IN. OF TYPE VIII OR BETTER REFLECTIVE SHEETING ON BOTH SIDES AND SHALL ATTACH SECURELY UNDER HEAD OF 5/8" BUTTON HEAD BOLT.</p> | <p>6. SPLICES SHALL BE LAPPED SO THE FREE END DOES NOT FACE TRAFFIC FLOW.</p> <p>7. CONSTRUCTION TOLERANCE SHALL BE +/- 1/2" FOR GUARDRAIL HEIGHT.</p> <p>8. SEE SHEET 606-G31-6/20 FOR TYPICAL GUARDRAIL INSTALLATION.</p> |
|---|---|

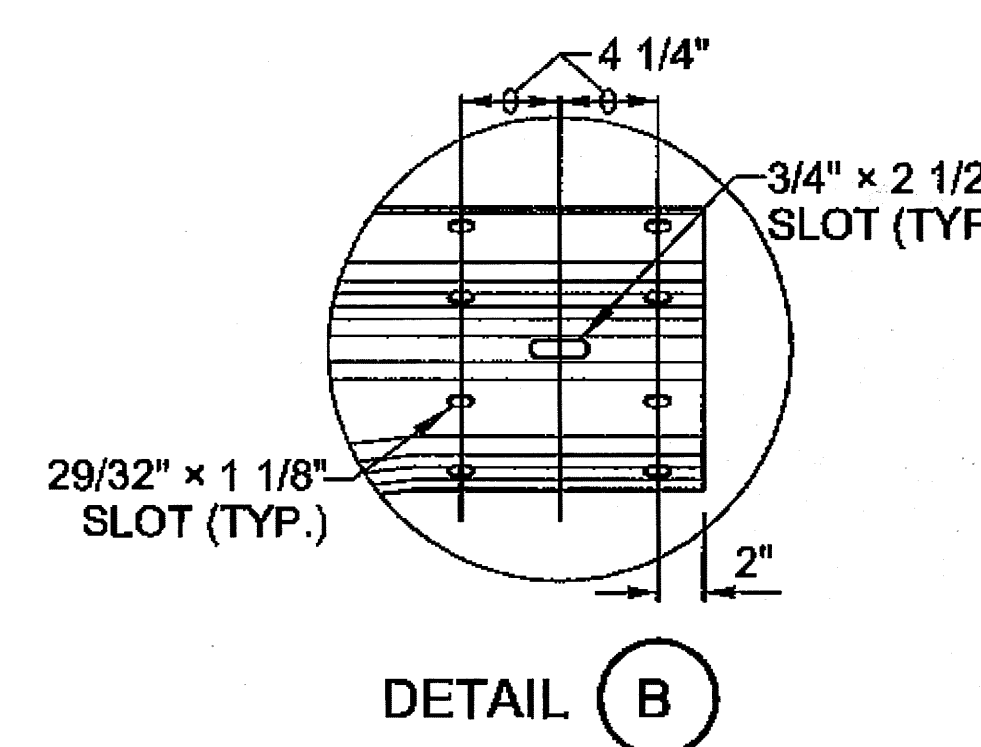
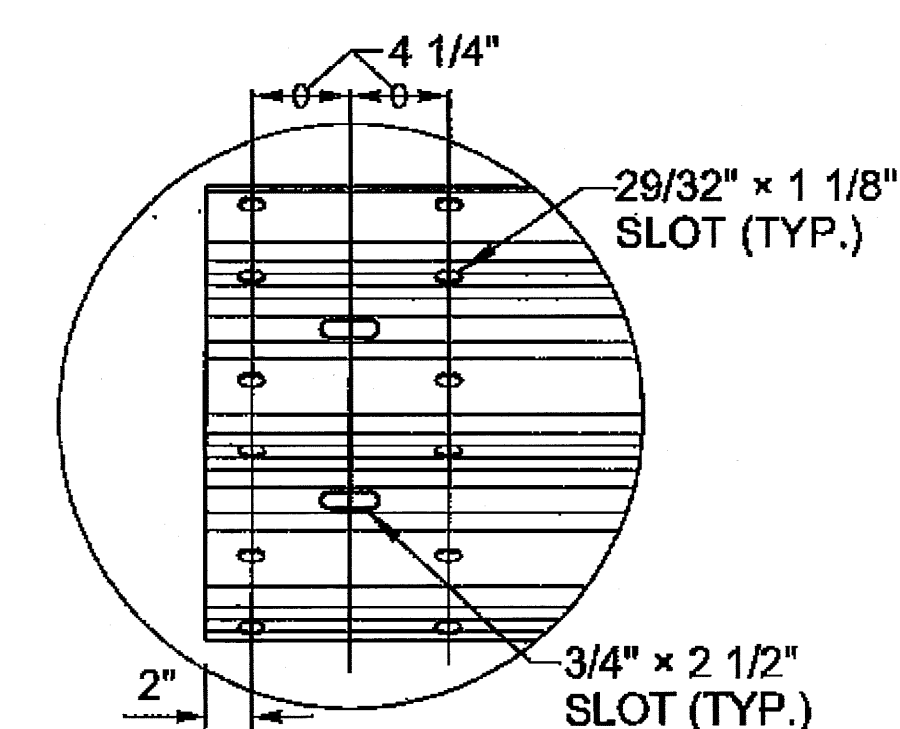
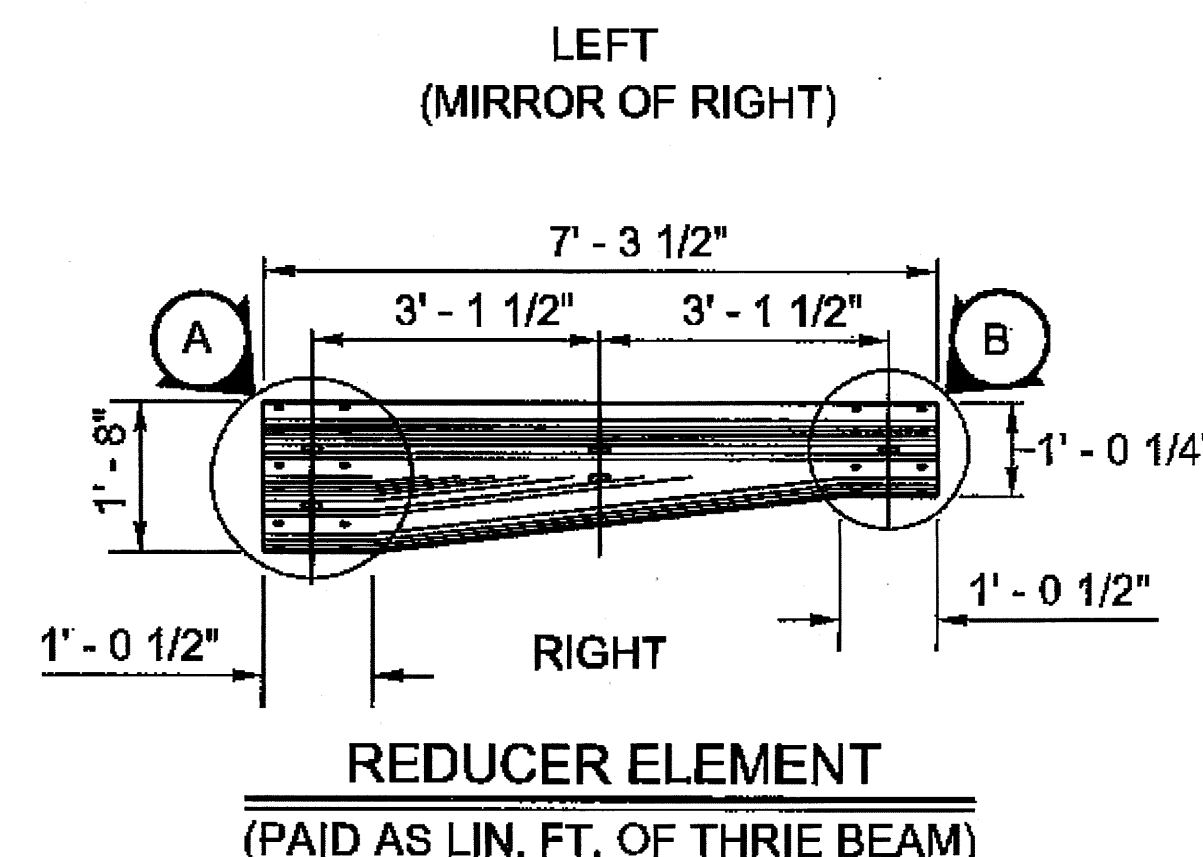
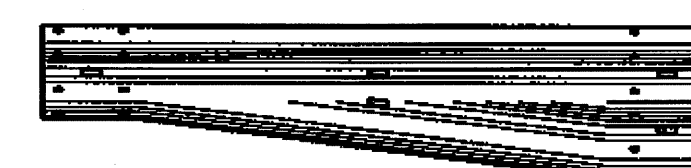
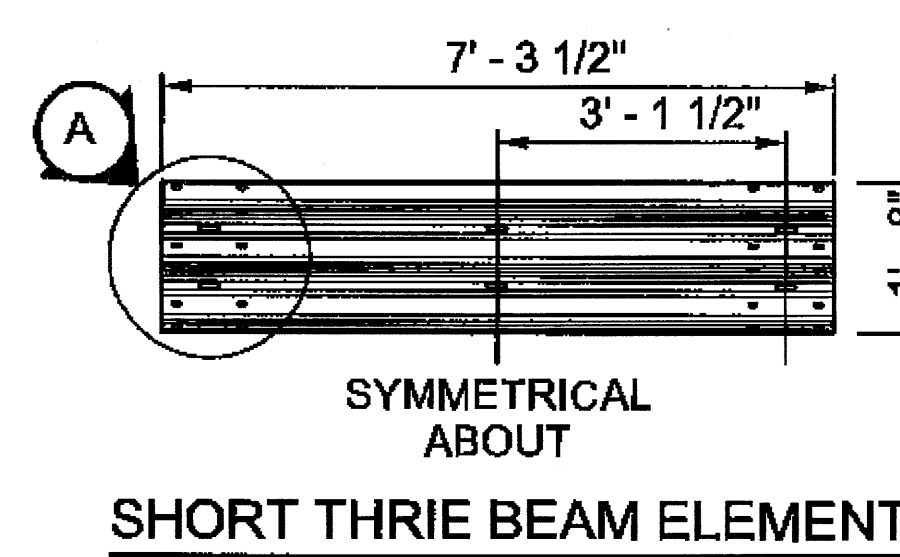
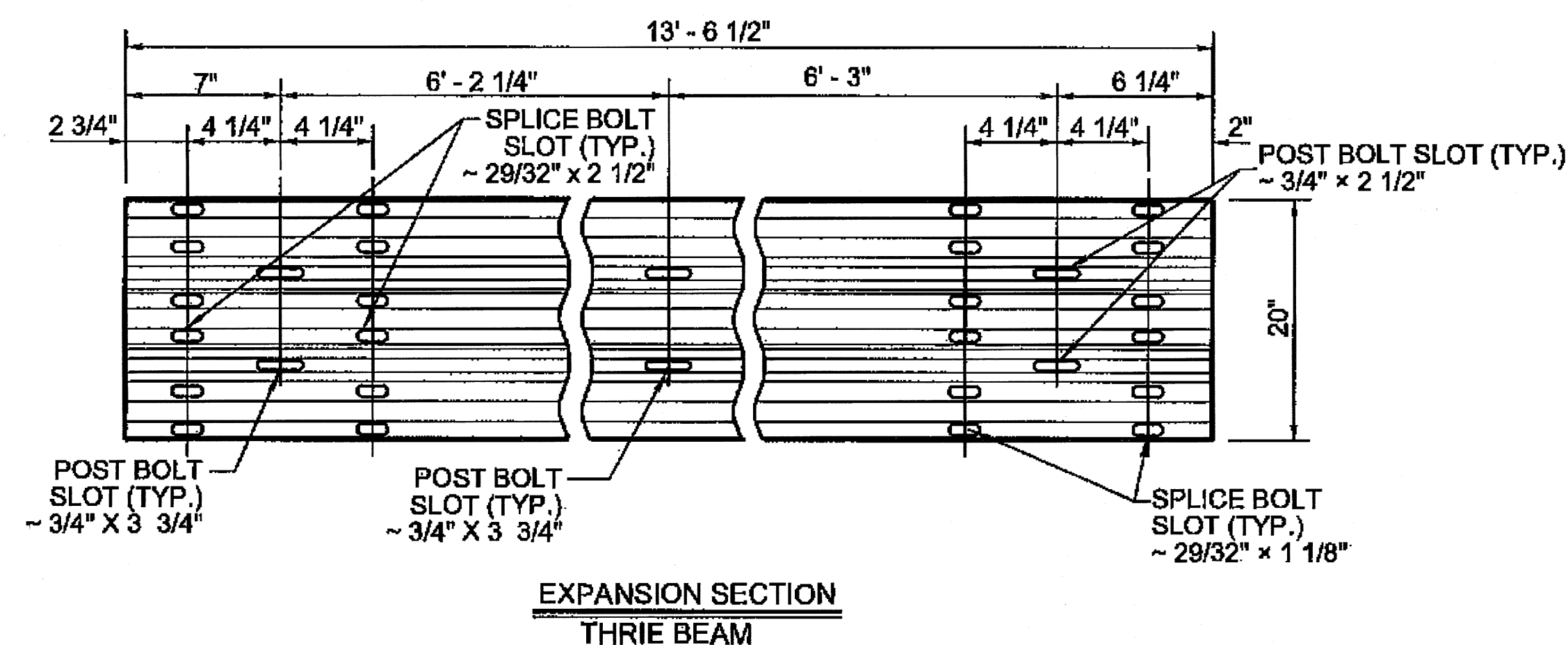
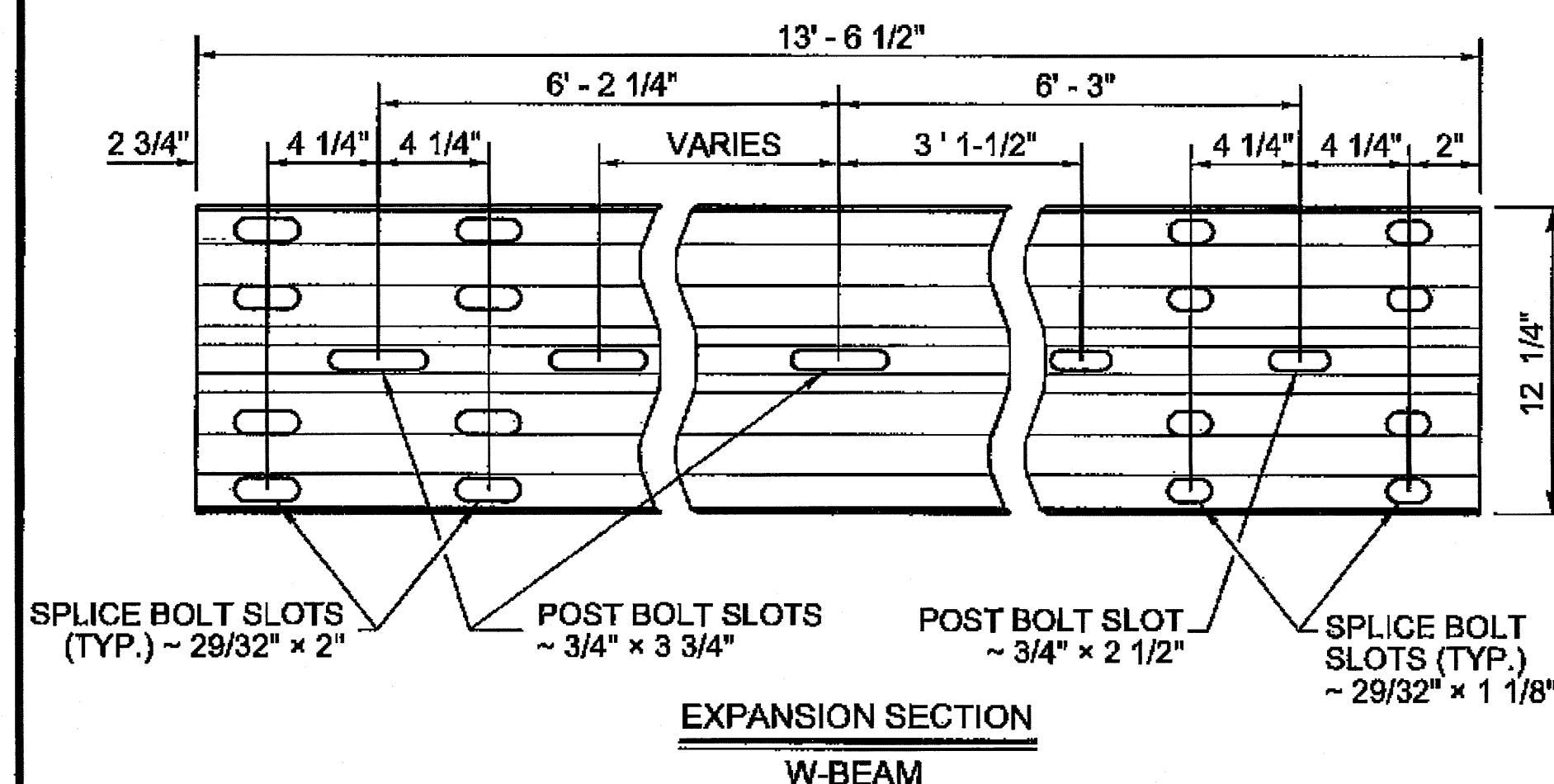
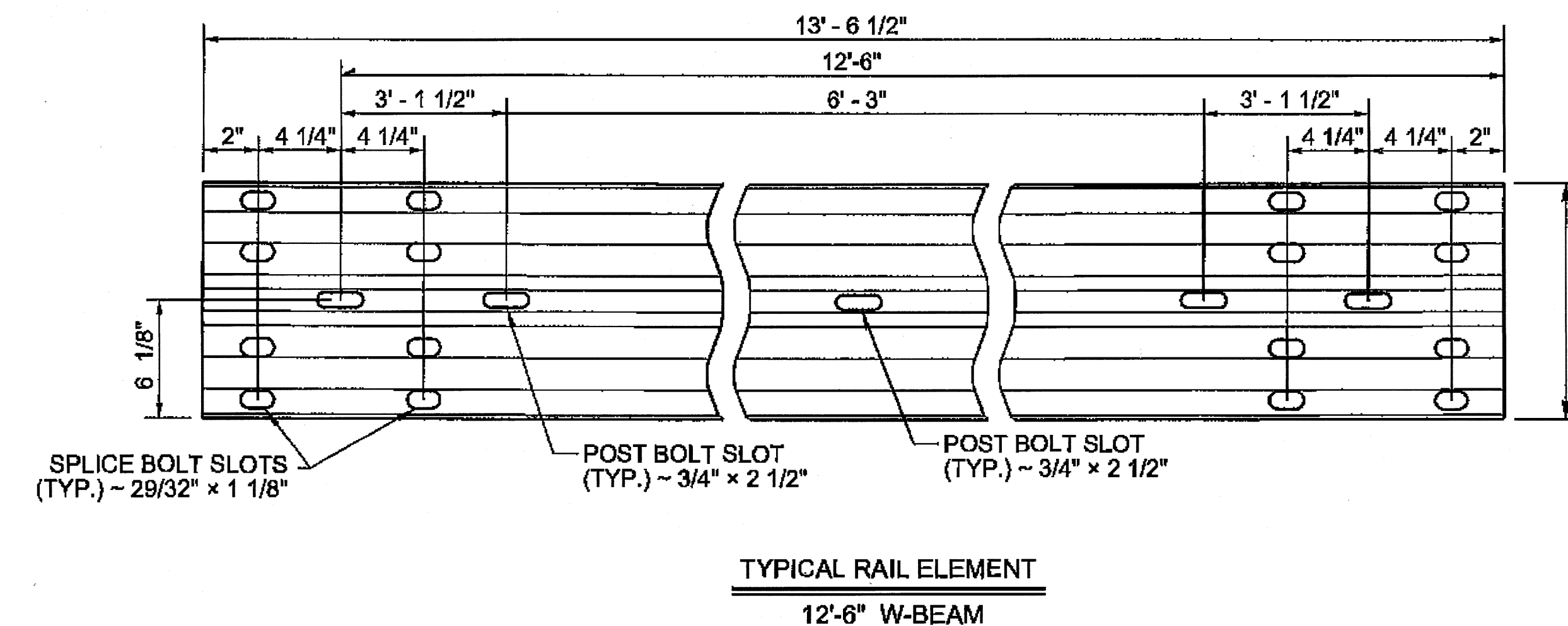
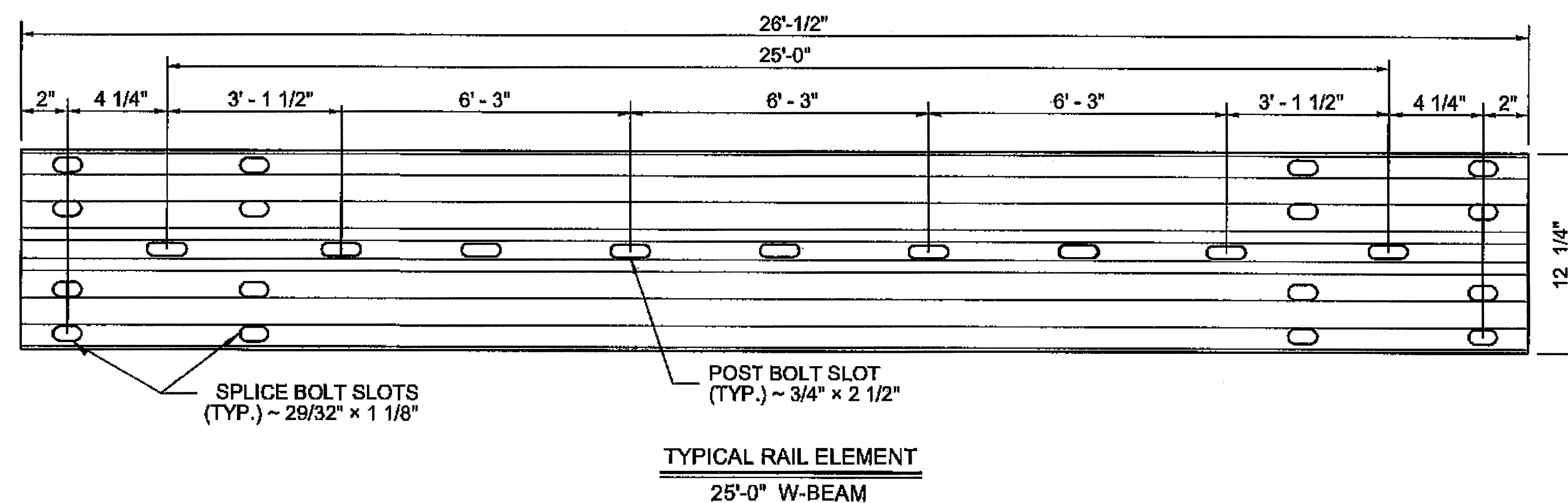
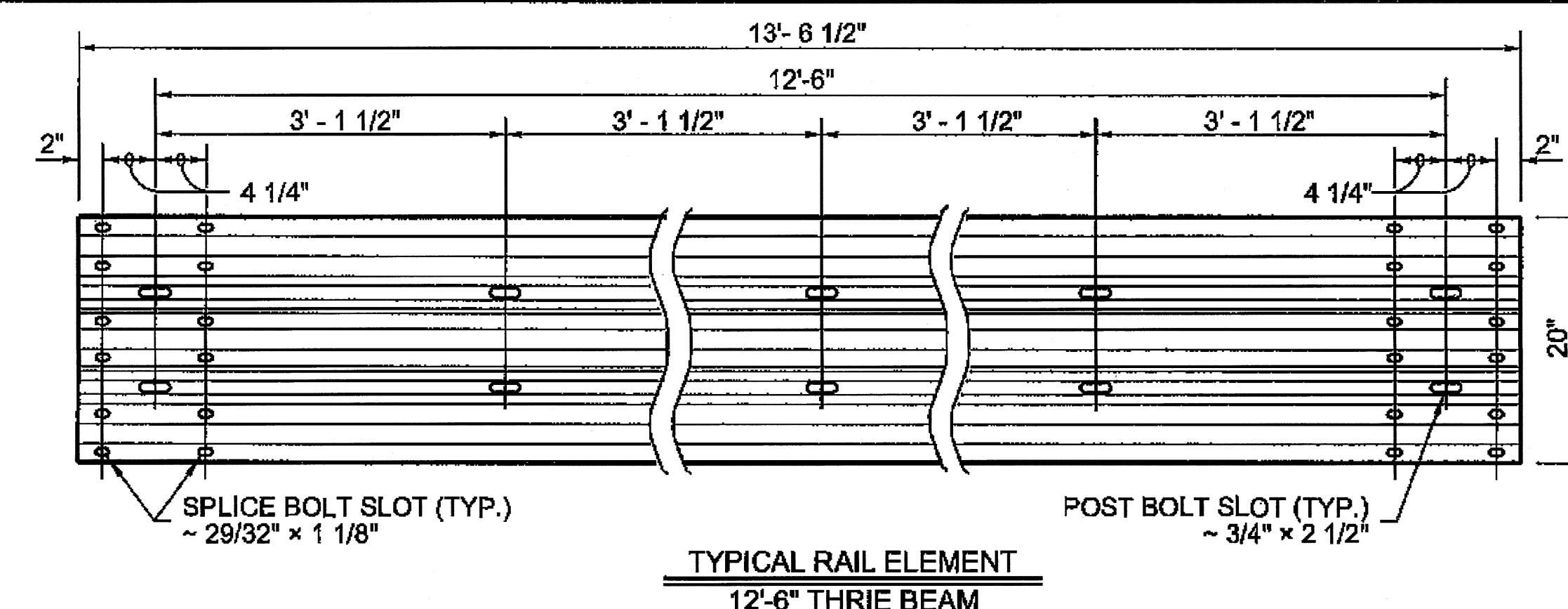
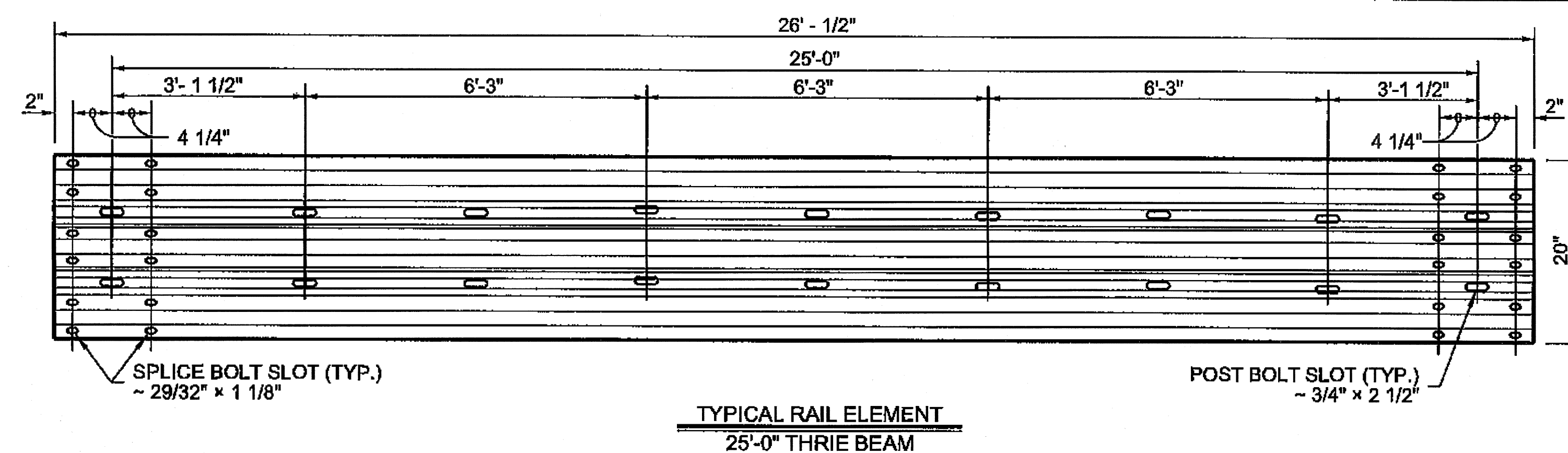
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| | | | | | |
| MZ | DATE | REV. BY | DESCRIPTION | | |
| REVISIONS (OR CHANGE NOTICES) | | | | | |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | | | |
| THRIE BEAM GUARDRAIL | | | | | |
| APPROVED _____ DESIGN ENGINEER | | | _____ DATE | | |
| | | | | | |

LE 606-GR31-2/20 SHEET 27 OF 32

DRAWING SCALE = NOT TO SCALE

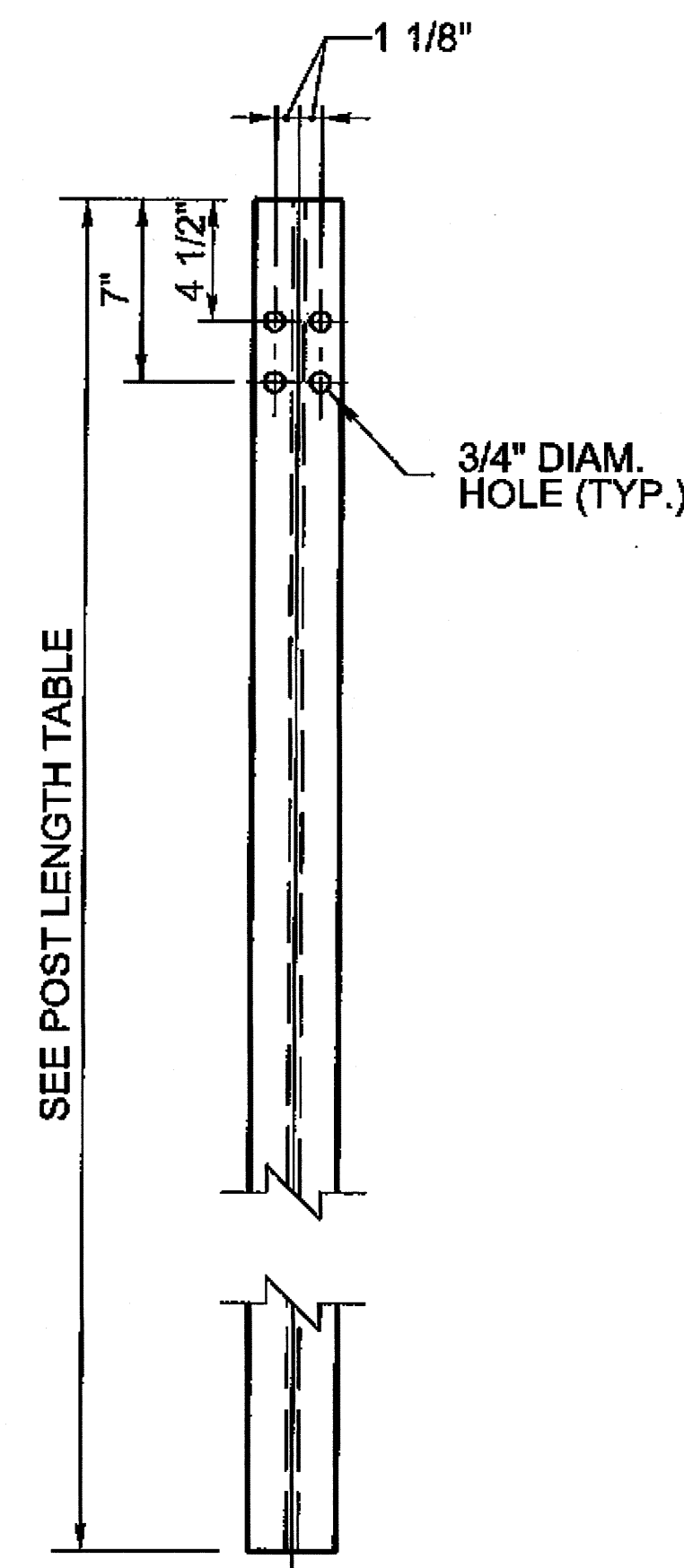
606-GR31-2/20

SHEET 27 OF 32

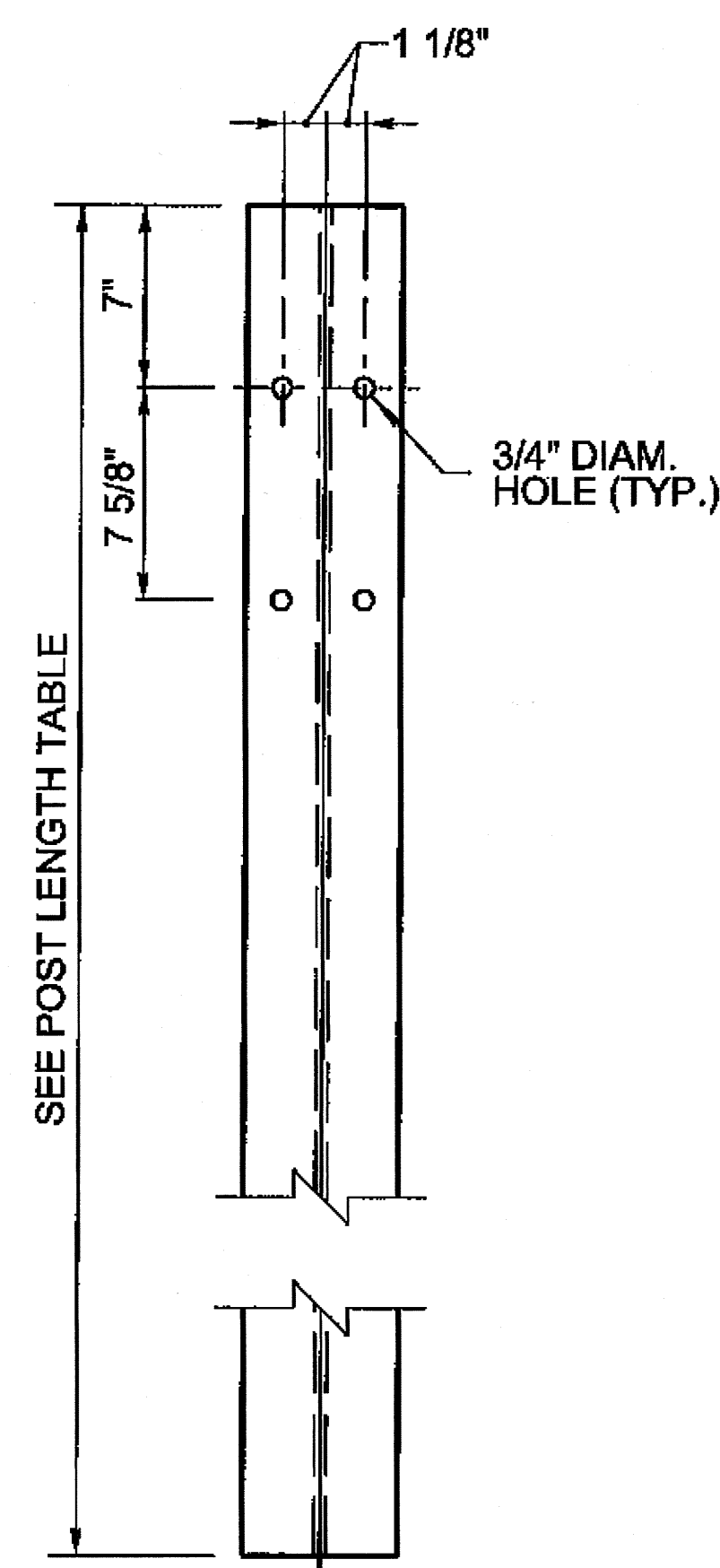


DRAWING SCALE = NOT TO SCALE

| NO. | DATE | REV. BY | DESCRIPTION |
|--|------|-----------------|-------------------------------|
| | | | REVISIONS (OR CHANGE NOTICES) |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | |
| BEAM GUARDRAIL ELEMENTS | | | |
| APPROVED | | DESIGN ENGINEER | DATE |
| 606-GR31-3/20 SHEET 28 OF 32 | | | |



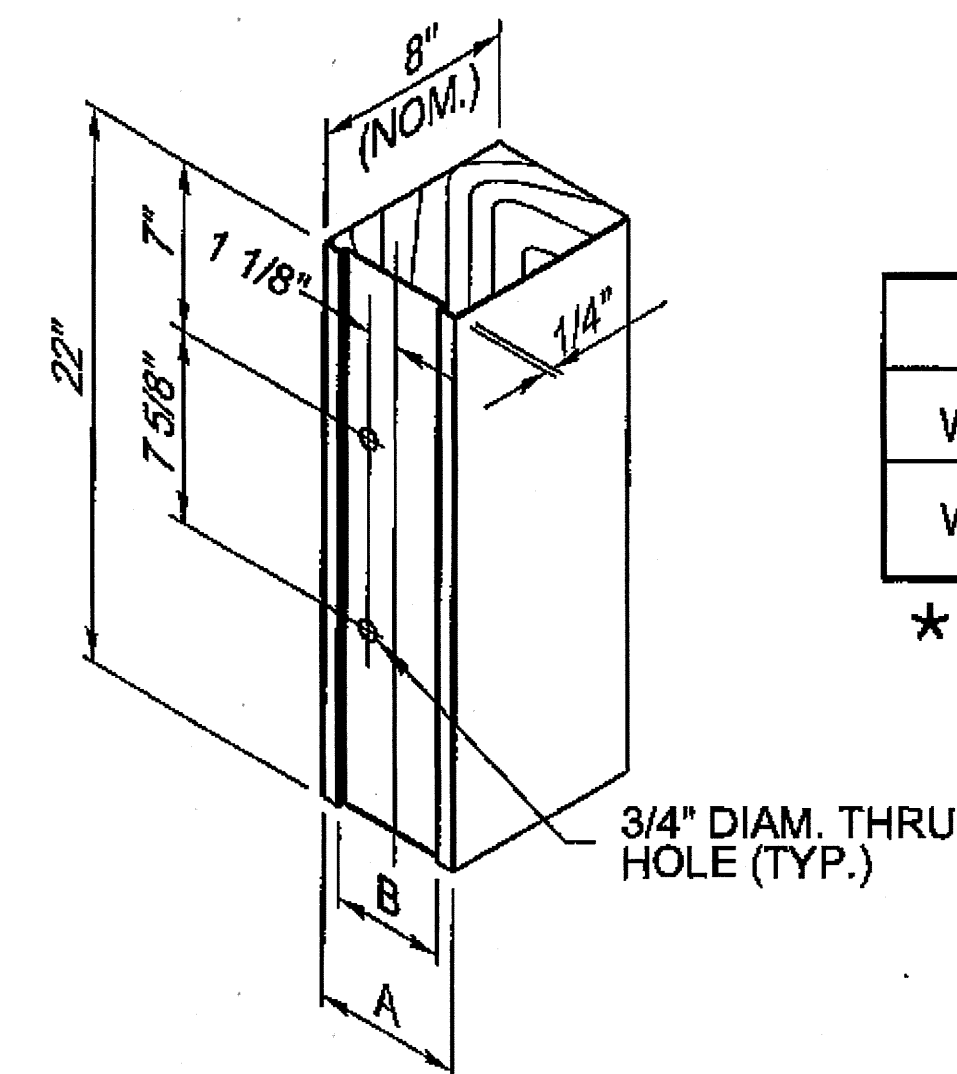
W-BEAM
(W6x8.5)



THRIE BEAM
(W6x15)

STEEL POST

| POST LENGTH TABLE | |
|------------------------|---------|
| DESCRIPTION | STEEL |
| SINGLE FACE W-BEAM | 6' - 0" |
| DOUBLE FACE W-BEAM | 6' - 0" |
| SINGLE FACE THRIE-BEAM | 6' - 6" |
| DOUBLE FACE THRIE-BEAM | 7' - 0" |

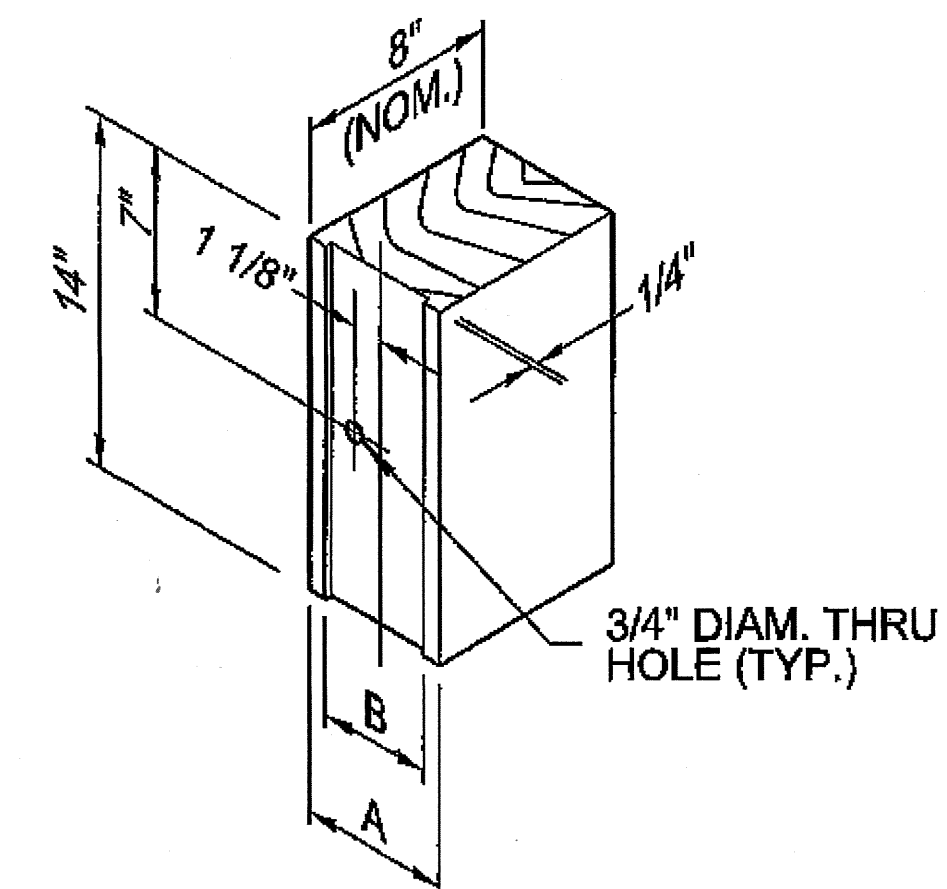


THRIE BEAM SPACER BLOCK
FOR STEEL POST

SEE NOTE

| POST | A | B |
|----------|-----|--------|
| W6 x 8.5 | 6"★ | 4 1/4" |
| W6 x 15 | 8"★ | 6 1/4" |

★ NOMINAL (NOM.)

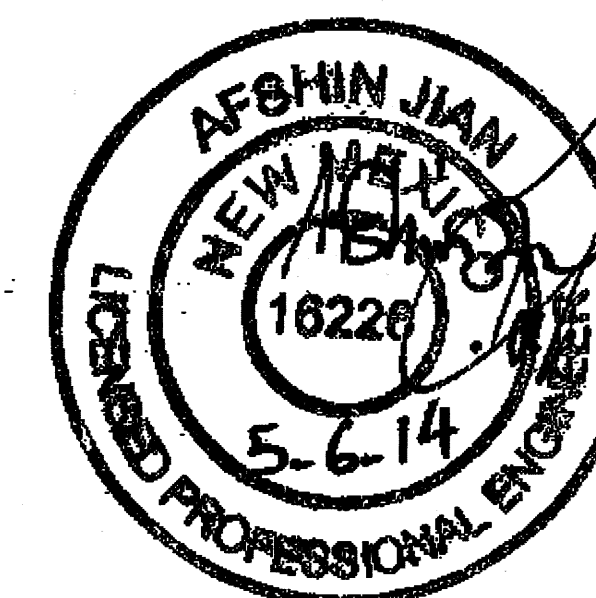


W-BEAM SPACER BLOCK
FOR STEEL POST

SEE NOTE

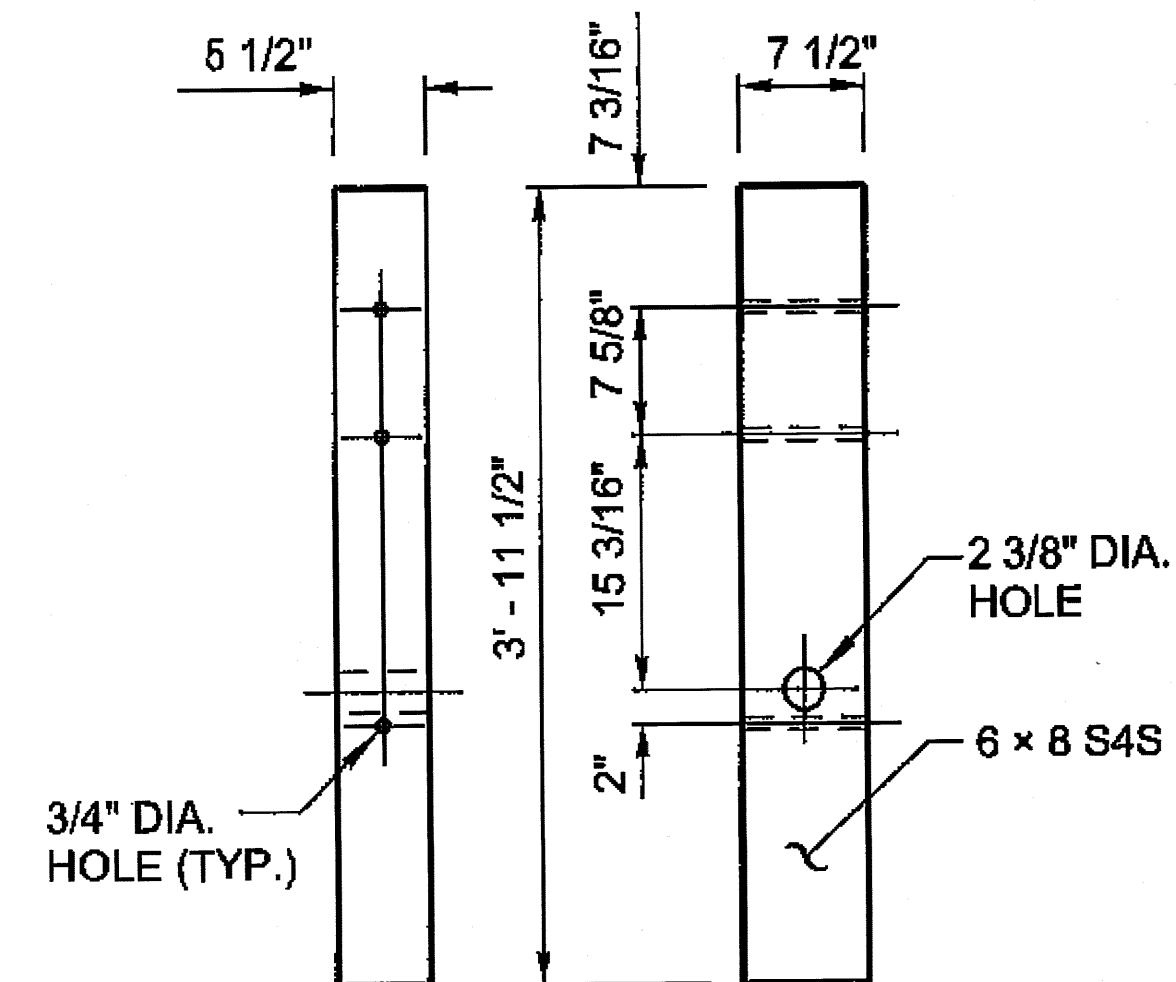
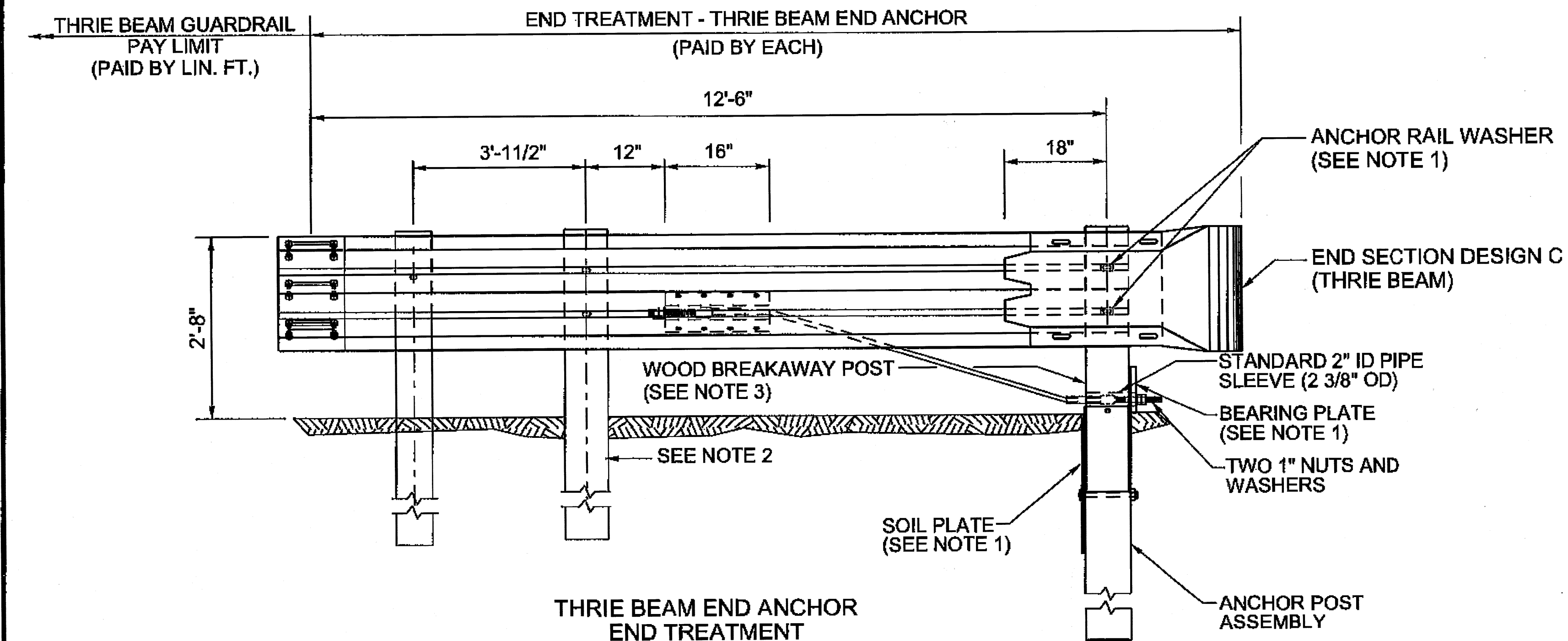
NOTE:

SPACER BLOCKS MAY CONSIST OF WOOD, PLASTIC, OR COMPOSITE MATERIAL ON THE APPROVED PRODUCTS LIST.

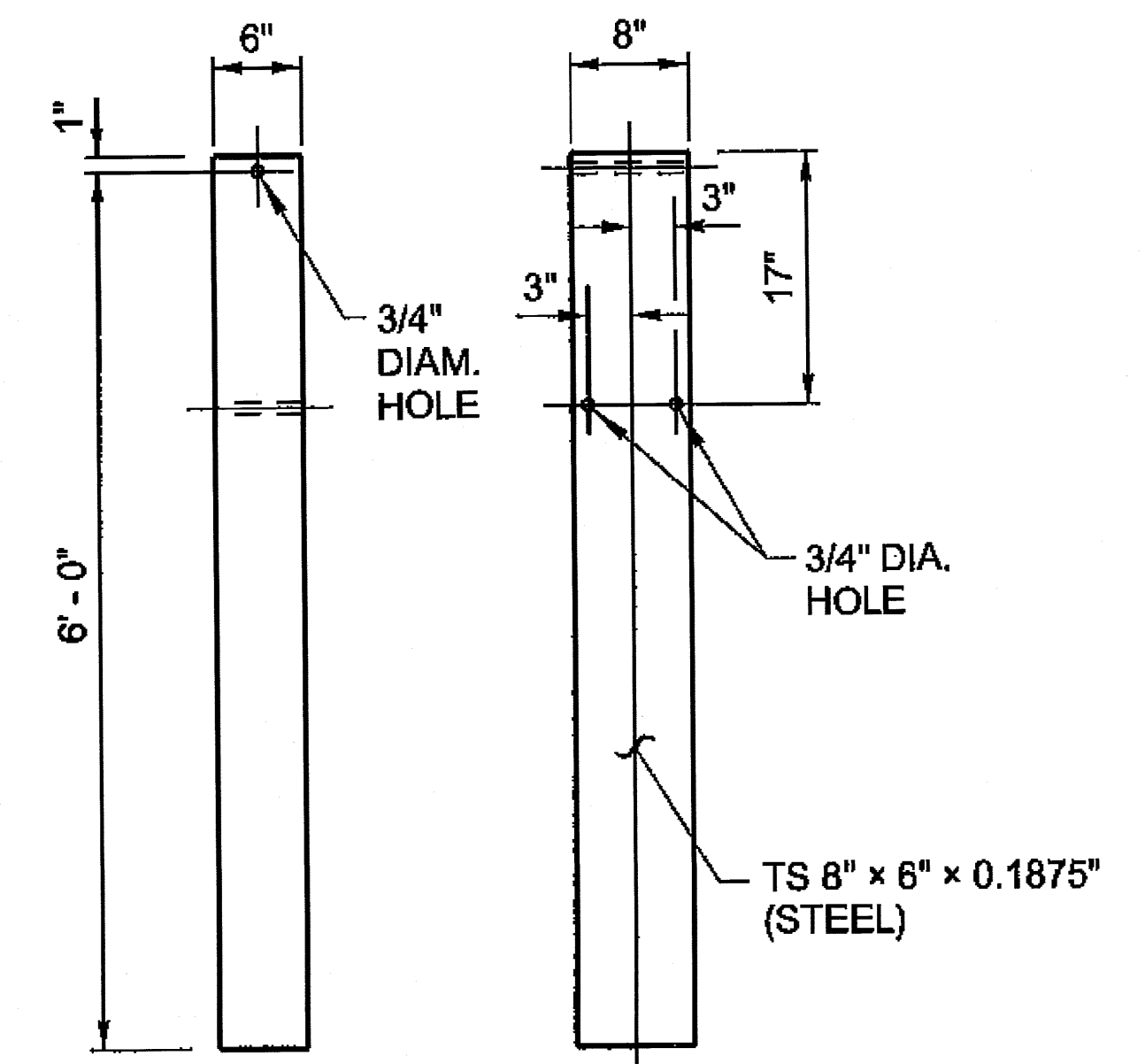


| NO. | DATE | REV. BY | DESCRIPTION |
|--|------|-----------------|-------------|
| REVISIONS (OR CHANGE NOTICES) | | | |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | |
| BEAM GUARDRAIL POSTS AND BLOCKS | | | |
| APPROVED | | DESIGN ENGINEER | DATE |
| 606-GR31-4/20 SHEET 29 OF 32 | | | |

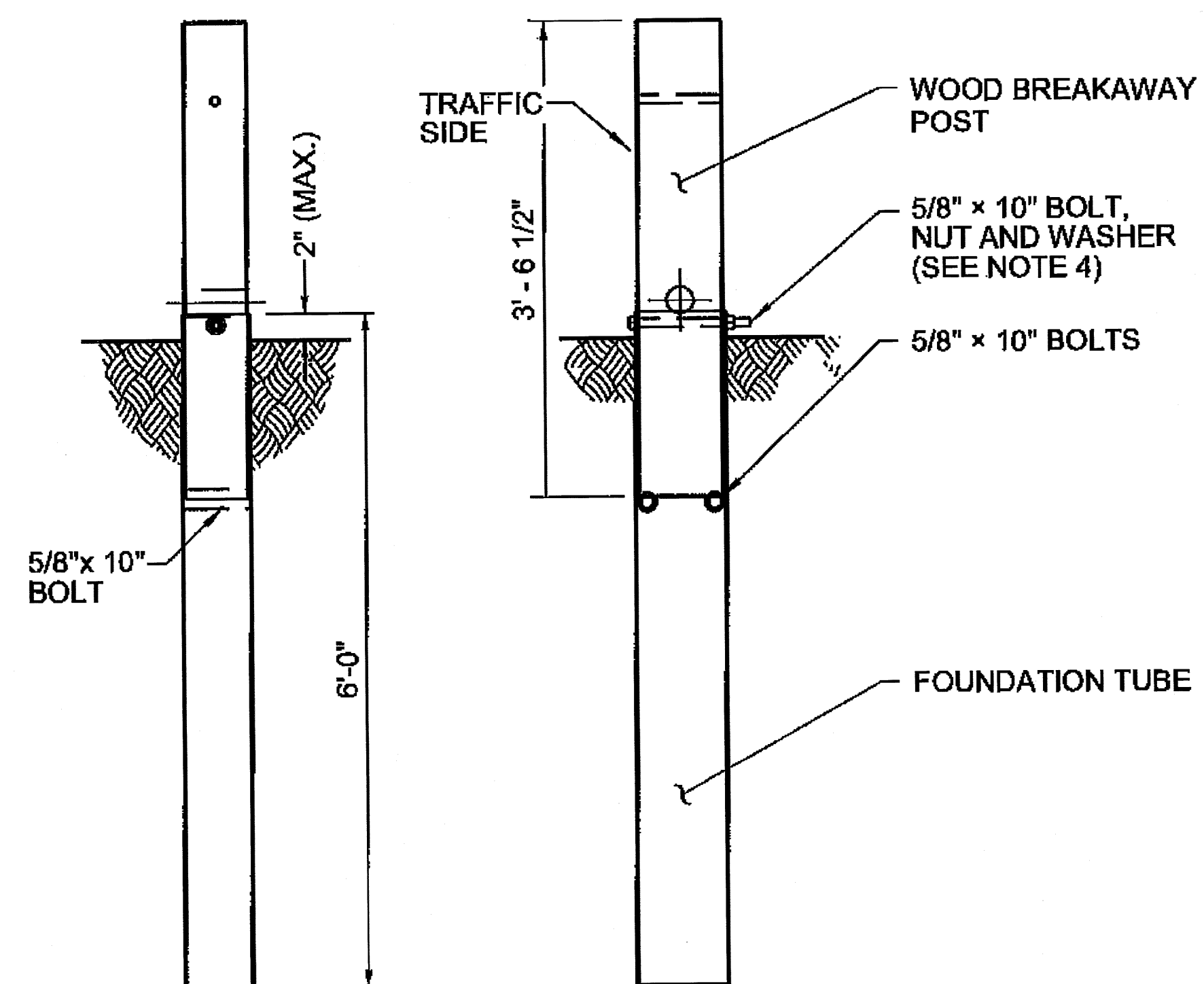
DRAWING SCALE = NOT TO SCALE



THRIE BEAM
WOOD BREAKAWAY POSTS
SEE NOTE 3



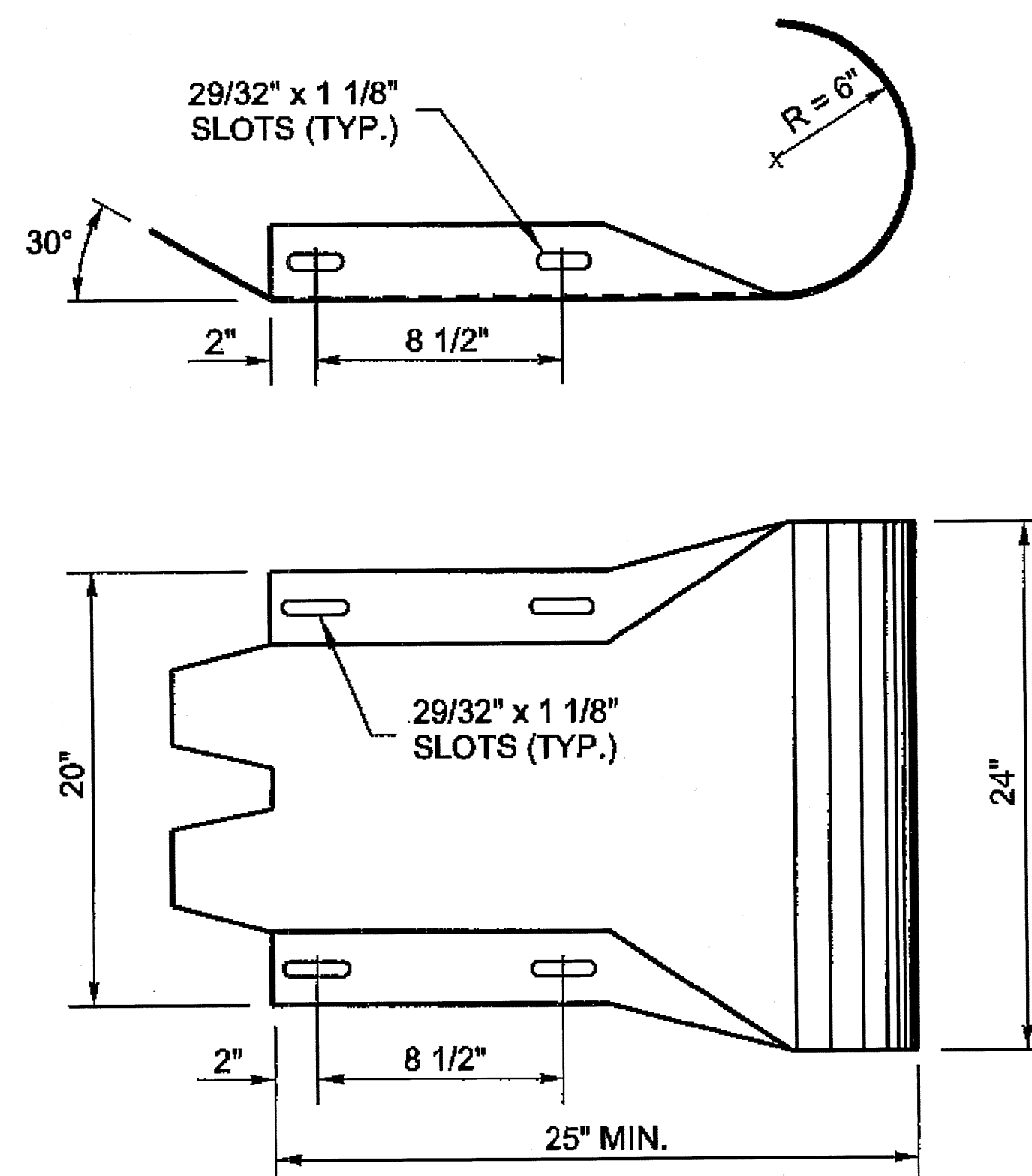
FOUNDATION TUBE



FRONT VIEW

SIDE VIEW

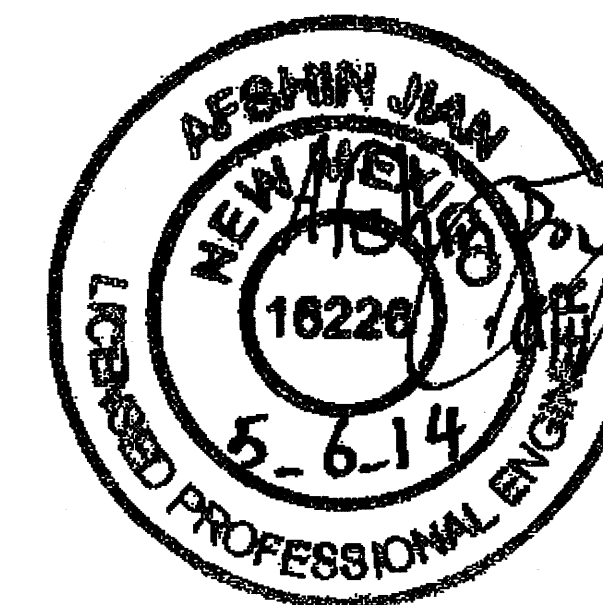
ANCHOR POST ASSEMBLY



DESIGN C (THRIE BEAM)

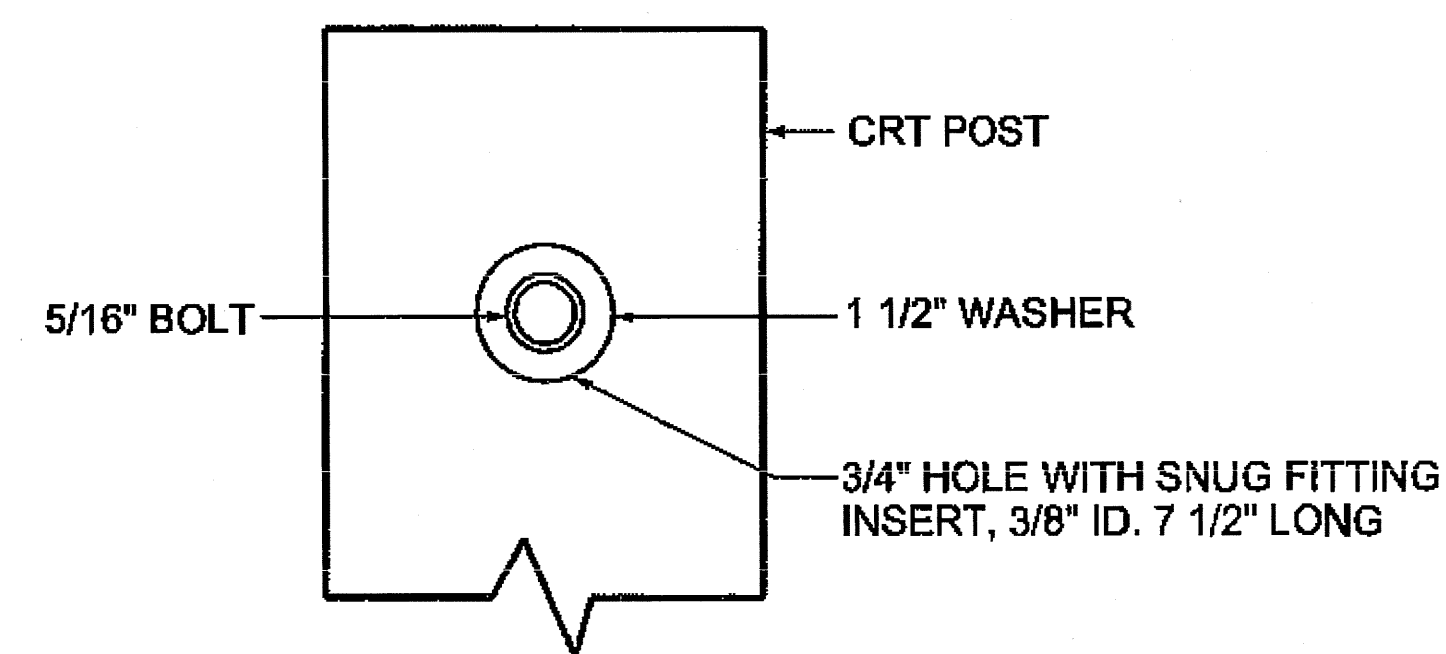
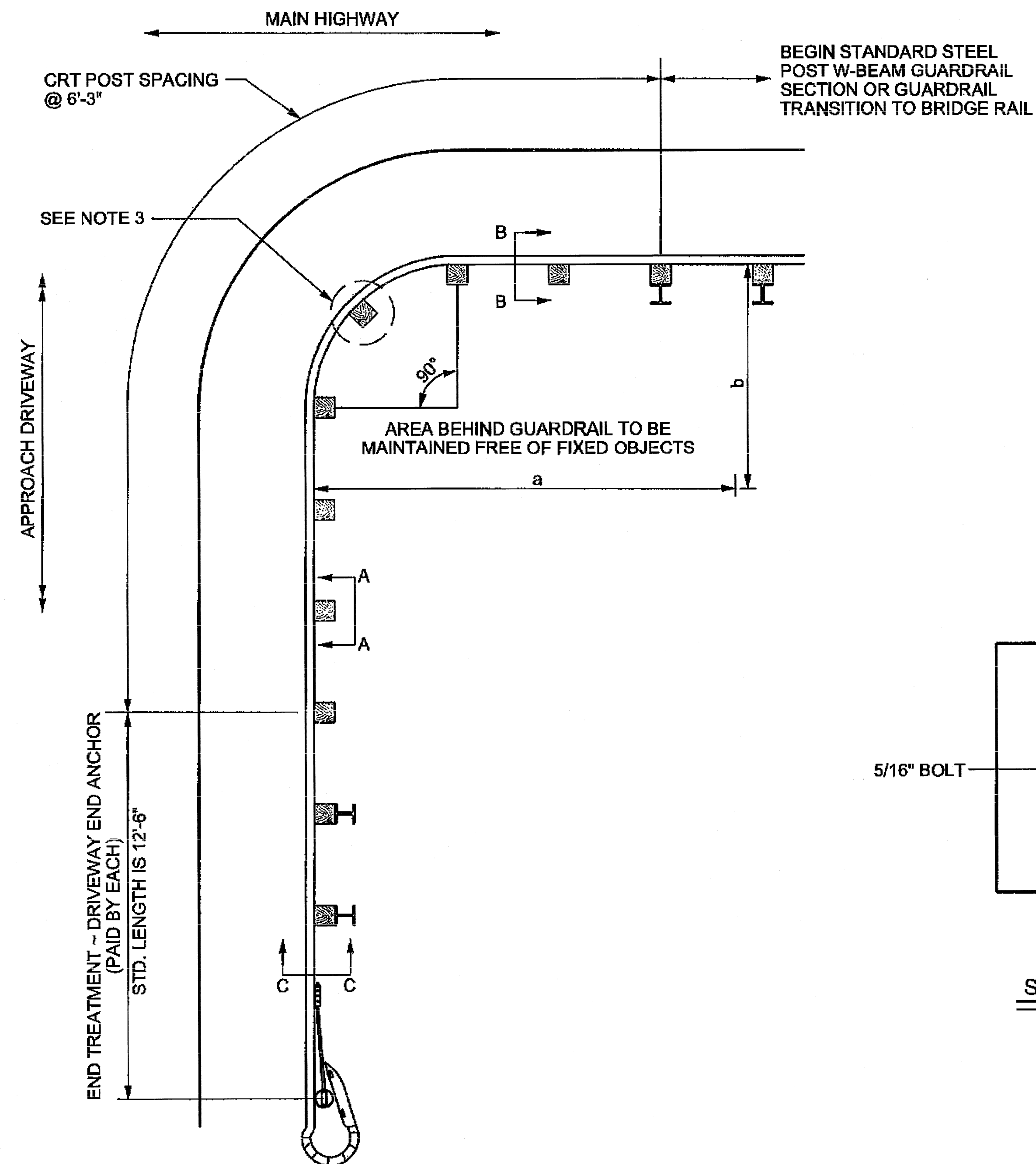
NOTES:

- FOR DETAILS NOT SHOWN, SEE SHEET 606-GR31-13/20.
- POST AND BLOCK SHALL MATCH BEAM GUARDRAIL POSTS.
- THE WOOD, BREAKAWAY POSTS SHALL BE S4S TIMBER WITH A STRESS GRADE MARKED OR CERTIFIED BY A RECOGNIZED ASSOCIATION OR AGENCY WHICH IS CERTIFIED BY THE BOARD OF REVIEW. AMERICAN LUMBER STANDARDS COMMITTEE TO GRADE THE SPECIES. WOOD PRESERVATIVES SHALL COMPLY TO THE REQUIREMENTS OF AASHTO DESIGNATION M133.
- BOLT SHALL BE INSTALLED FROM THE EMBANKMENT SIDE.

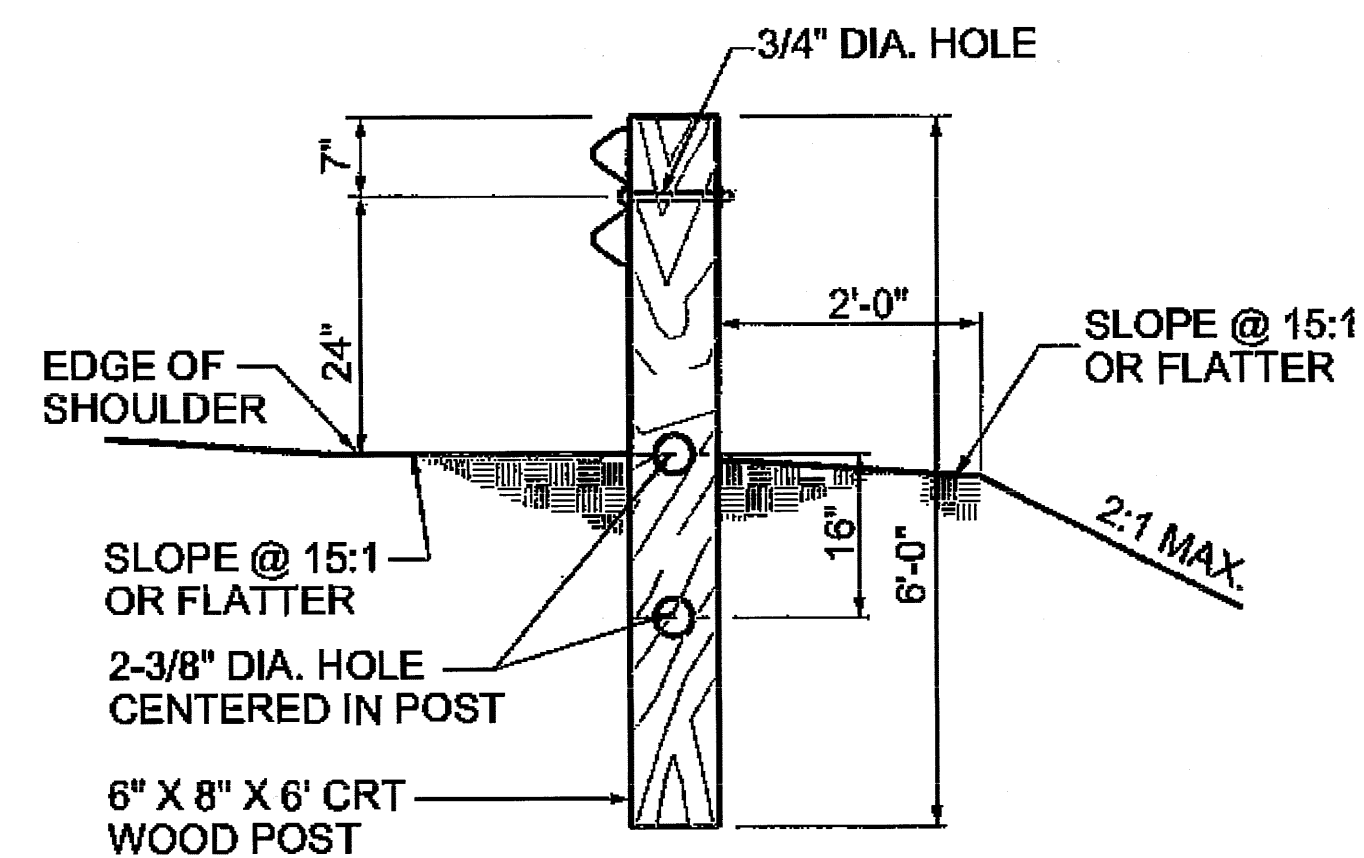


| NO. | DATE | REV. BY | DESCRIPTION |
|--|------|-----------------|-------------|
| REVISIONS (OR CHANGE NOTICES) | | | |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | |
| END TREATMENT THRIE BEAM END ANCHOR DETAILS | | | |
| APPROVED | | DESIGN ENGINEER | DATE |
| 606-GR31-12/20 SHEET 30 OF 32 | | | |

DRAWING SCALE = NOT TO SCALE

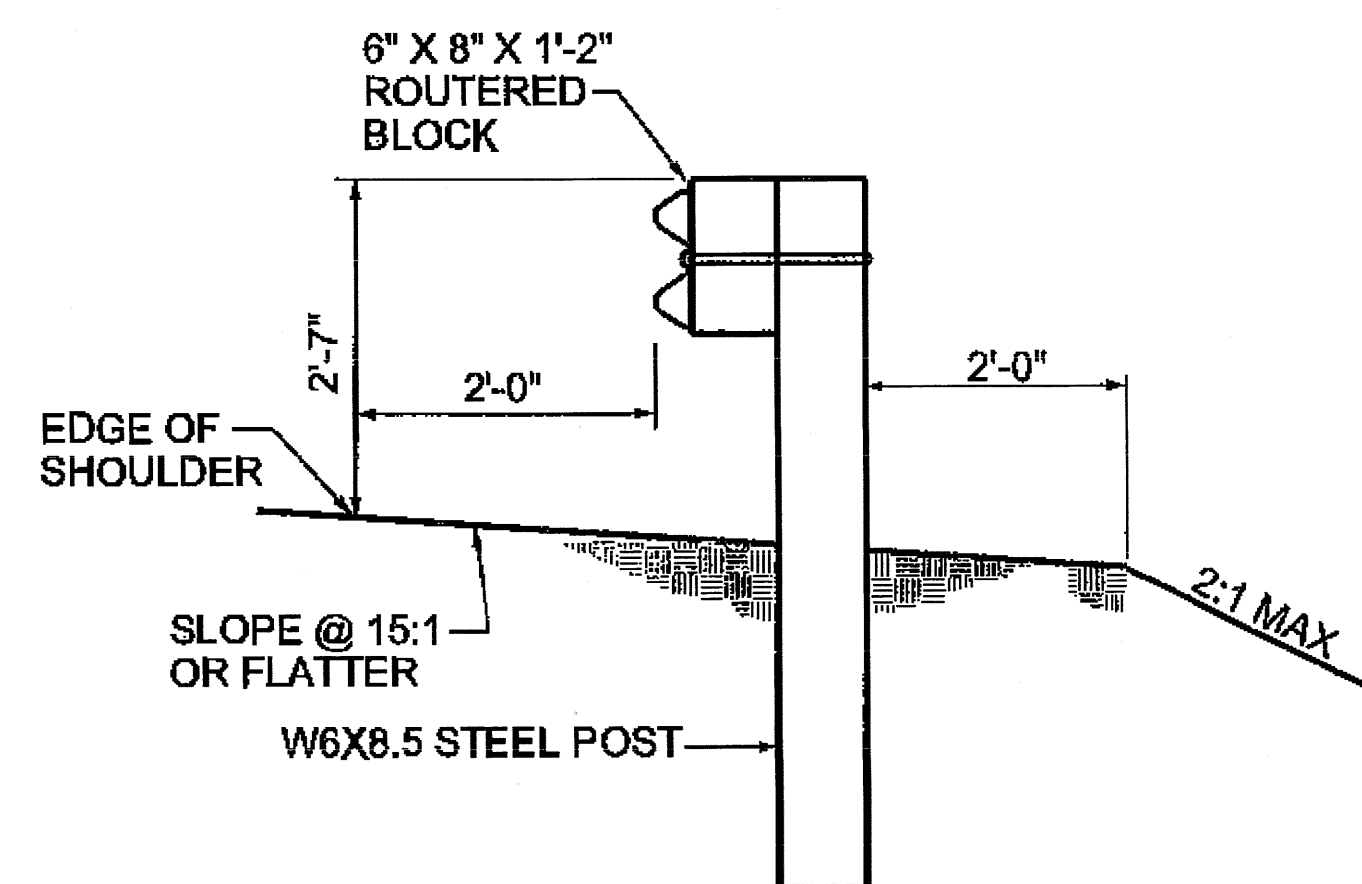


SECTION A-A



SECTION B-B

CONTROLLED RELEASING
TERMINAL POST (CRT)



SECTION C-C

NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (CURRENT EDITION).
2. ALL HARDWARE SHALL MEET FHWA CRASHWORTHINESS REQUIREMENTS AS PER NCHRP 350 AND MASH GUIDELINES AND SHALL BE ON THE DEPARTMENT'S APPROVED PRODUCT LIST.
3. THE RAIL IS NOT BOLTED TO THE CRT POST AT THE CENTER OF THE NOSE FOR THE 8'-6" RADIUS INSTALLATION ONLY.
4. NO WASHERS ARE USED ON THE 5/8" BUTTON HEAD BOLTS CONNECTING THE RAIL TO THE CRT POSTS.
5. THE CURVED GUARDRAIL SECTION SHALL BE SHOP FABRICATED.
6. THE SLOPE IN FRONT OF THE CURVED GUARDRAIL SHOULD NOT EXCEED 15:1.
7. CURVED GUARDRAIL SHALL ONLY BE USED ON OPERATING SPEEDS OF 60 MPH OR LESS. 35' RADIUS CURVED GUARDRAIL SHOULD ONLY BE USED ON OPERATING SPEEDS OF 50 MPH OR LESS.
8. CURVED GUARDRAIL SHALL BE PAID AS SINGLE FACE W-BEAM GUARDRAIL.

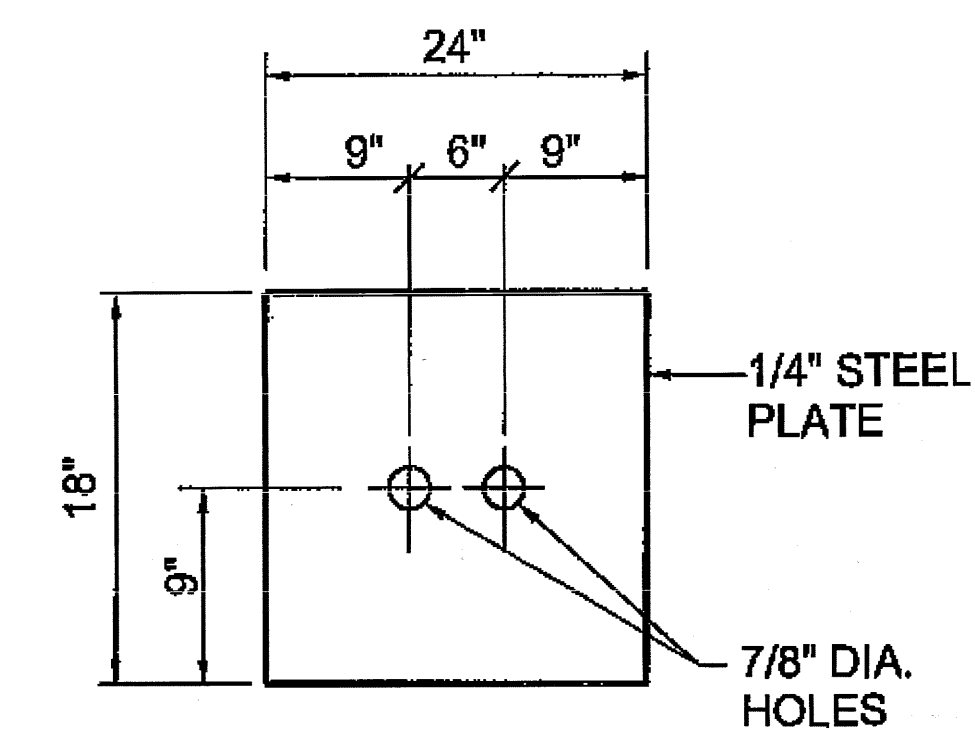
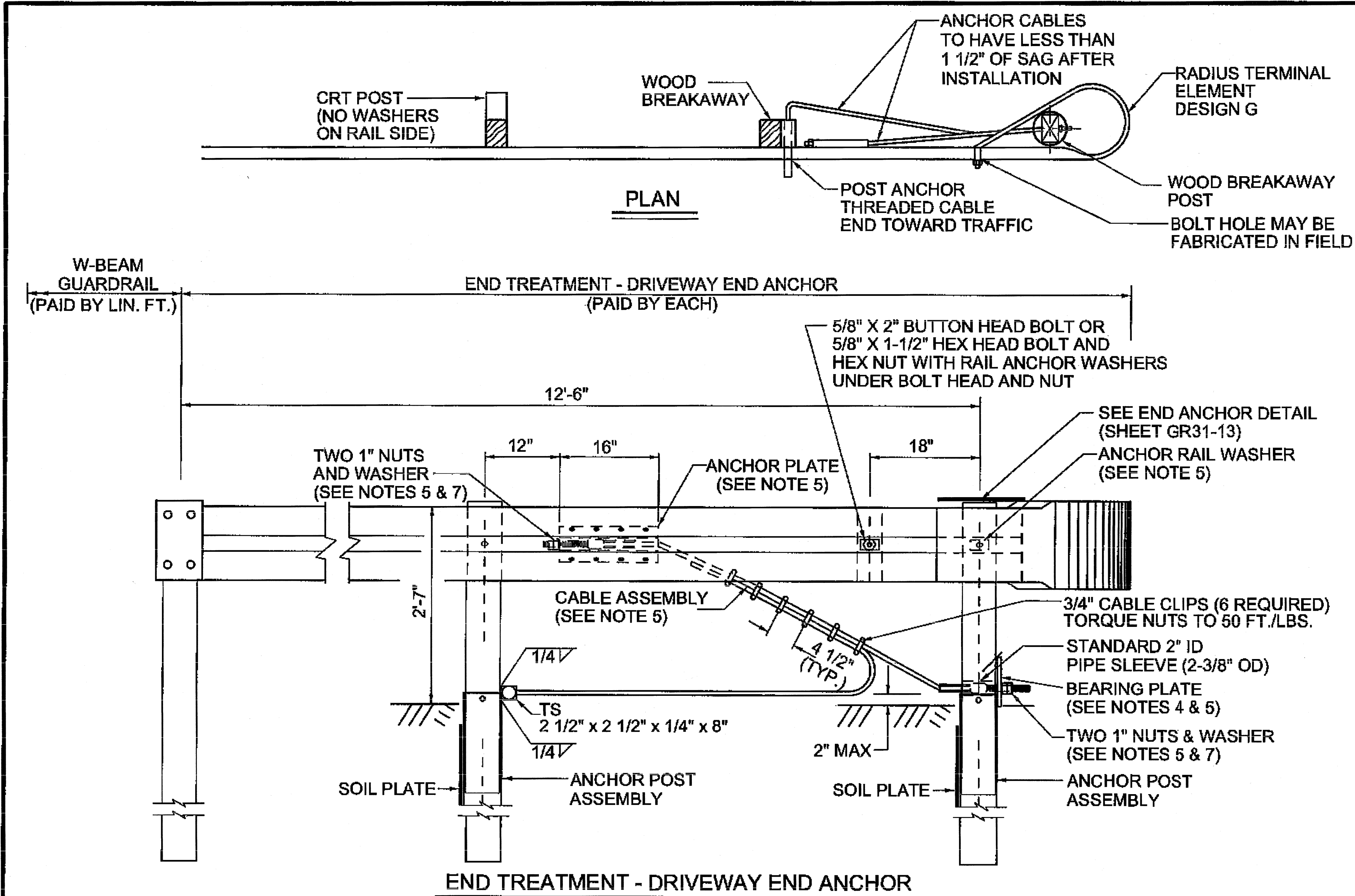
| RADIUS | NO. OF CRT POINTS | NOMINAL LENGTH OF BENT RAIL | REQUIRED AREA FREE OF FIXED OBJECTS |
|---------|----------------------|-----------------------------------|--|
| | | | a x b |
| 8' - 6" | 5 | 12'-6" | 25' X 15' |
| 17' | 6 | 25' | 30' X 15' |
| 25'-6" | 8 | 37'-6" | 40' X 20' |
| 35' | 11 | 50' | 50' X 20' |

[illegible]

DRAWING SCALE = NOT TO SCALE

606-GR31-14/20

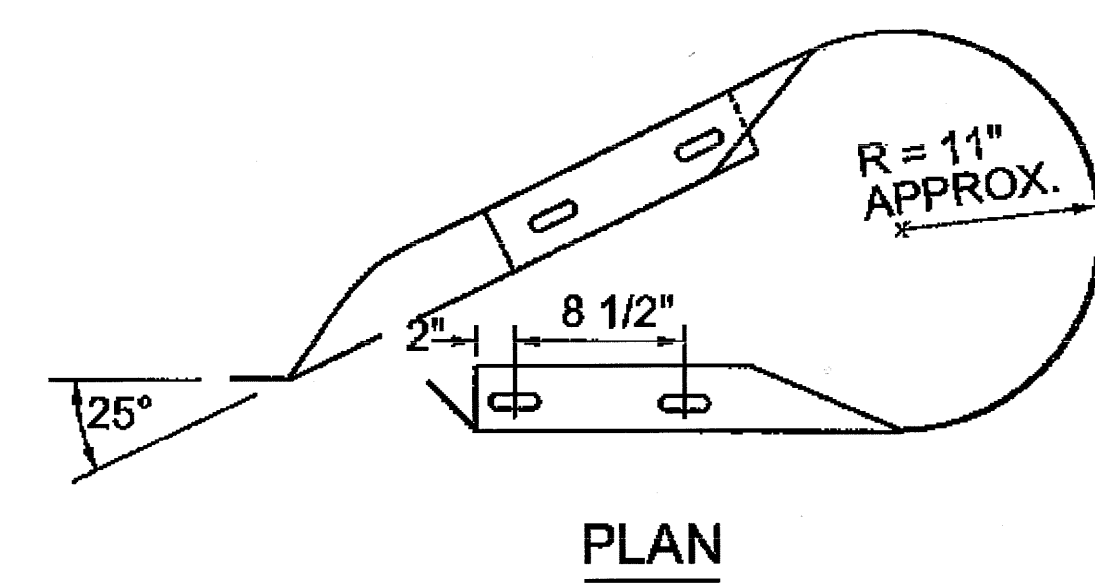
SHEET 31 OF 32



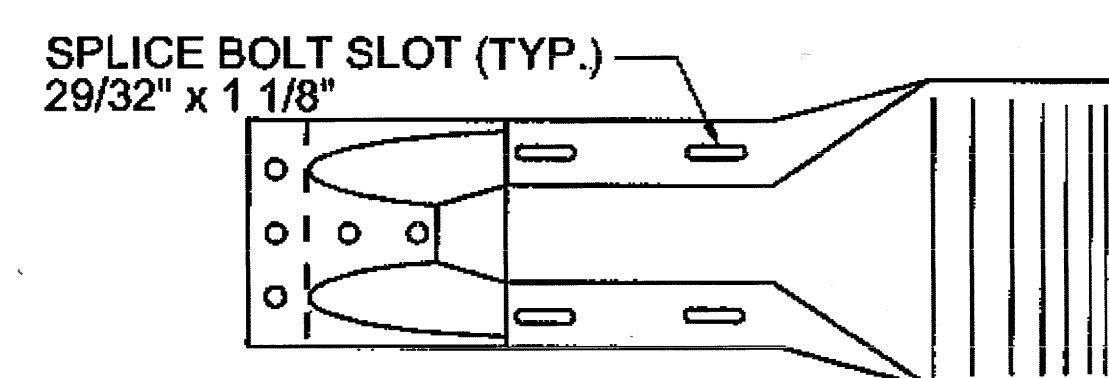
SOIL PLATE DETAIL

NOTES:

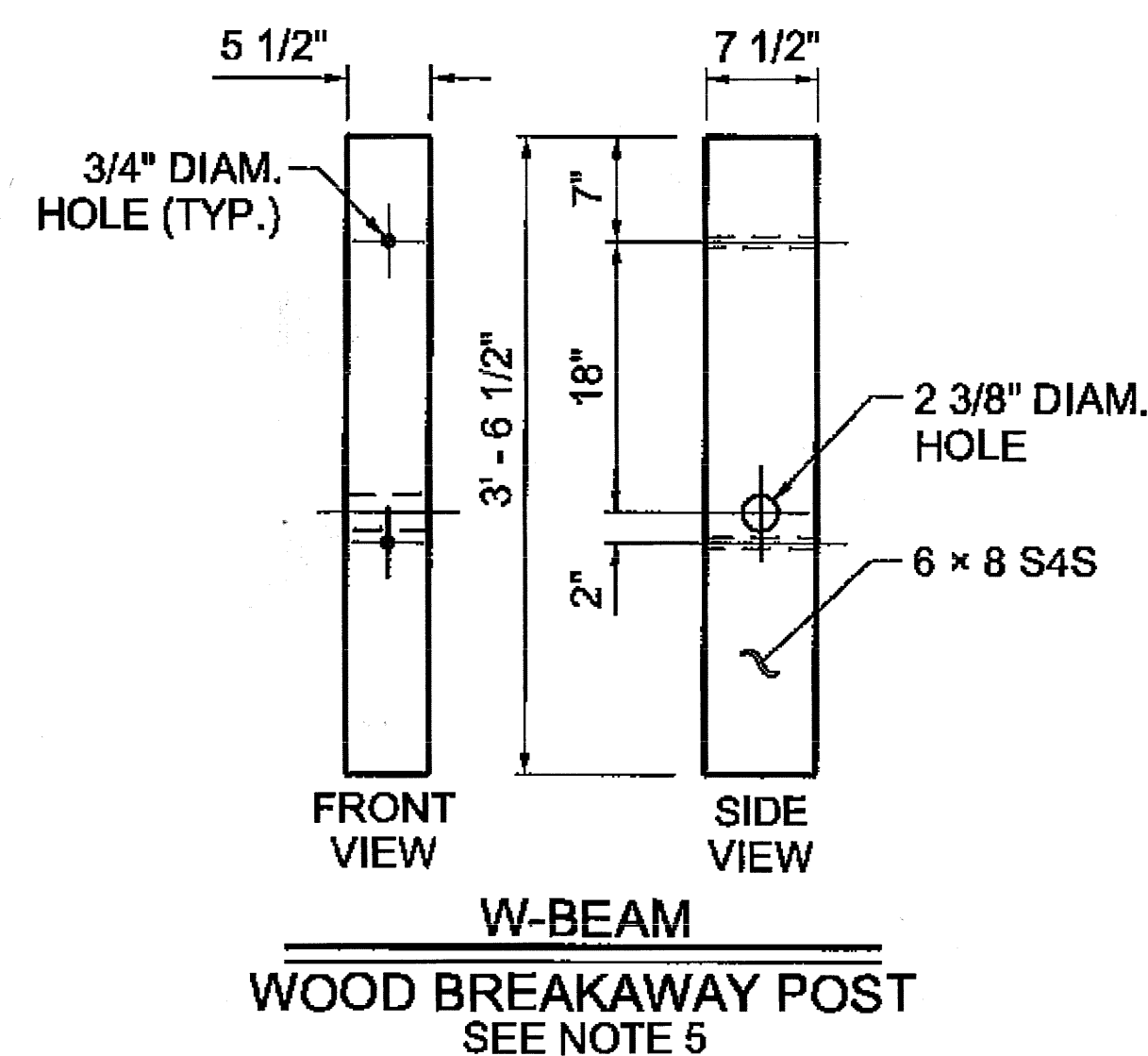
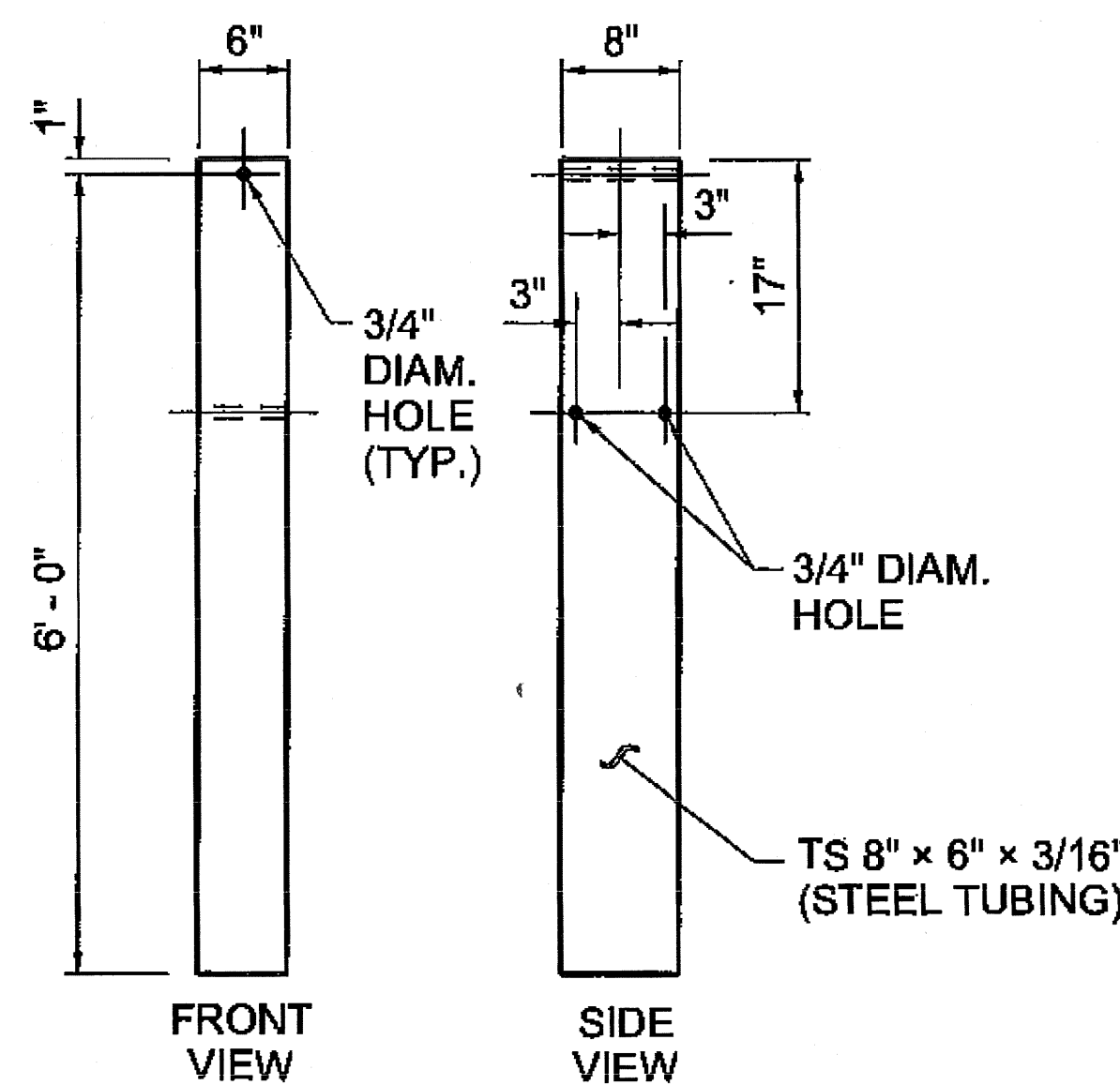
1. END TREATMENT SHOWN IS A GENERAL DEPICTION OF A NMDOT ACCEPTED END ANCHOR THAT IS FHWA SPECIFIED (SEE FHWA TECHNICAL ADVISORY T5040-320 ON THE FHWA WEBSITE FOR DETAILS). DRIVEWAY END ANCHORS SHOULD ONLY BE USED WHEN THERE IS INSUFFICIENT SPACE TO PROPERLY INSTALL A TL-2 END TERMINAL (SHEET 606-GR31-8/20) OR A STANDARD END ANCHOR (SHEET 606-GR31-9/20) ON THE MINOR APPROACH OR DRIVEWAY. THIS END TREATMENT SHALL NOT BE USED ON THE MAINLINE.
2. FOR CURVED GUARDRAIL DETAILS SEE POST ANCHOR DETAILS ON SHEET 606-G31-14/20.
3. FOR CONTROLLED RELEASE TERMINAL (CRT) POST DETAIL, SEE SHEET 606-G31-14/20.
4. TACK WELD OR TOENAIL BEARING PLATE WITH 10D NAIL AT CORNERS TO PREVENT TURNING. BEND THE NAIL OVER THE BEARING PLATE.
5. FOR DETAILS NOT SHOWN SEE END ANCHORAGE DETAIL ON SHEET 606-GR31-13/20.
6. THE WOOD BREAKAWAY POSTS SHALL BE S4S TIMBER WITH A STRESS GRADE MARKED OR CERTIFIED BY A RECOGNIZED ASSOCIATION OR AGENCY WHICH IS CERTIFIED BY THE BOARD OF REVIEW. AMERICAN LUMBER STANDARDS COMMITTEE TO GRADE THE SPECIES. WOOD PRESERVATIVES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M133.
7. OUTSIDE NUT WILL BE TORQUED AGAINST INSIDE NUT A MINIMUM OF 100 FT./LBS.



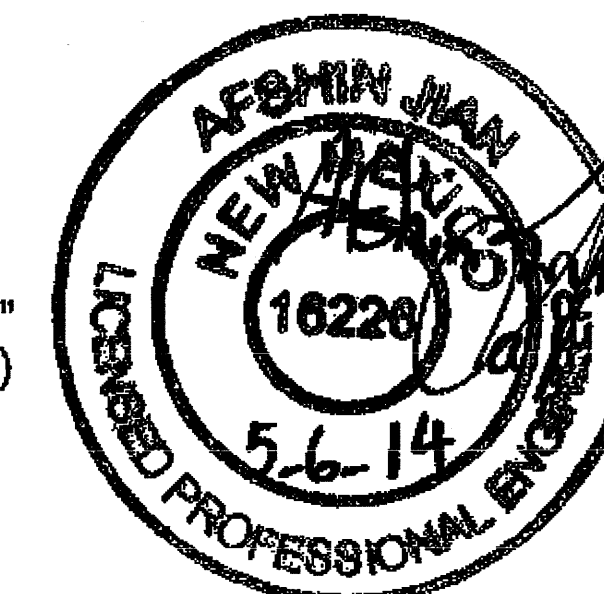
PLAN



ELEVATION

RADIUS TERMINAL ELEMENT
DESIGN GW-BEAM
WOOD BREAKAWAY POST
SEE NOTE 5

FOUNDATION TUBE



| NO. | DATE | REV. BY | DESCRIPTION |
|--|------|-----------------|-------------|
| REVISIONS (OR CHANGE NOTICES) | | | |
| NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING | | | |
| END TREATMENT DRIVEWAY END ANCHOR | | | |
| APPROVED | | DESIGN ENGINEER | DATE |
| 606-GR31-10/20 SHEET 32 OF 32 | | | |

DRAWING SCALE = NOT TO SCALE