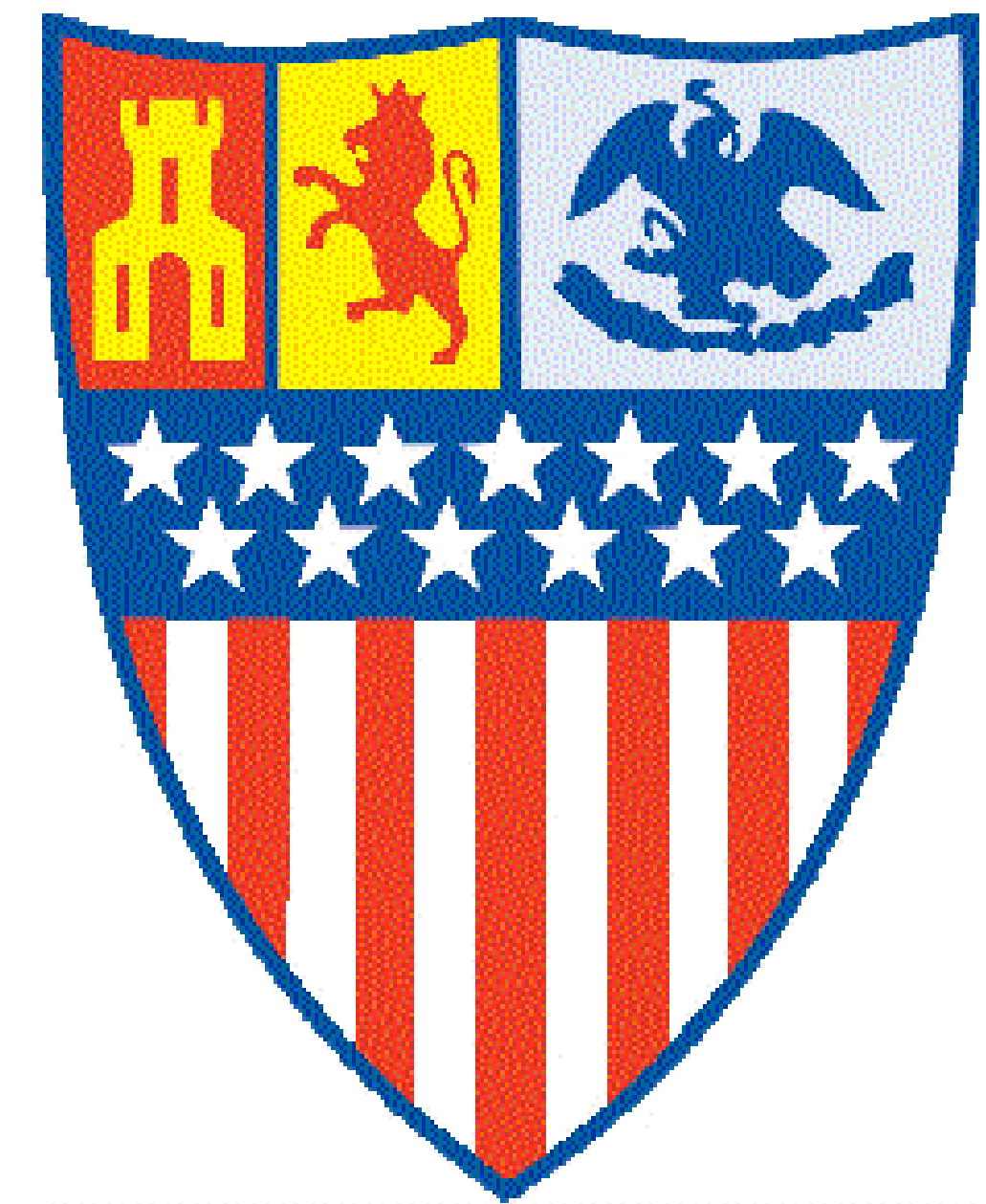
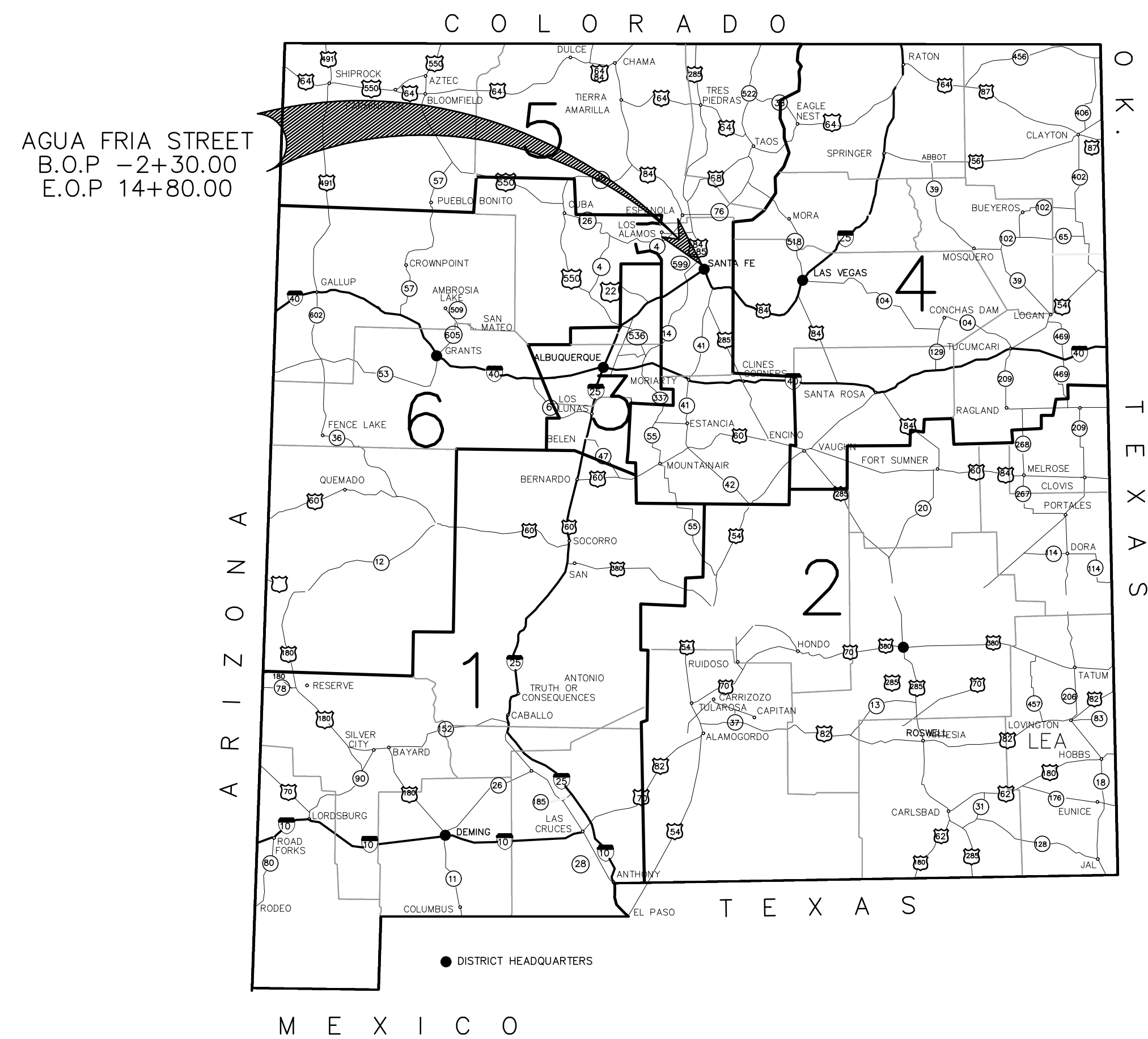


CONSTRUCTION PLANS FOR AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NM C.I.P. NO. 853C



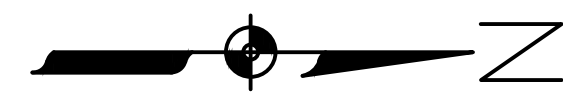
DRAFT

CONVENTIONAL
ON PLAN

PLAN VIEW

SCALE: 1" = 100'

TITLE
SCALE



NORTH ARROW

- ⊕ DENOTES UTILITY POLE
- DENOTES GUY WIRE/ANCHOR
- DENOTES CALCULATED POINT, NOT SET
- ⊙ DENOTES FOUND BRASS CAP, AS SHOWN
- DENOTES FOUND MONUMENTS AS INDICATED HEREON.
- DENOTES CHAIN LINK FENCE
- — — DENOTES WIRE FENCE
- OH— DENOTES OVERHEAD UTILITY LINE
- FO— DENOTES FIBER OPTIC LOCATES
- C— DENOTES COMMUNICATION UTILITY LOCATES
- W— DENOTES WATER LINE, ASSUMED
- E— DENOTES ELECTRIC LOCATES
- G— DENOTES GAS LOCATES
- Q.D. DENOTES QUITCLAIM DEED
- W.D. DENOTES WARRANTY DEED
- SWD DENOTES SPECIAL WARRANTY DEED
- P.R.D. DENOTES PERSONAL REPRESENTATIVES WARRANTY DEED
- RCP DENOTES REINFORCED CONCRETE PIPE
- CPP DENOTES CORRUGATED POLYETHYLENE PIPE CULVERT
- CMP DENOTES CORRUGATED METAL PIPE CULVERT
- I.I. DENOTES INVERT IN
- I.O. DENOTES INVERT OUT
- A.C. DENOTES ALUMINUM CAP, SURVEY MONUMENT
- S.A.S. DENOTES SANITARY SEWER
- DE DENOTES DRAINAGE EASEMENT
- M.B. DENOTES MAILBOX
- ⋯ DENOTES FLOOD ZONE LIMIT REF. DOC.#2
- ⋯ DENOTES BASE FLOOD ELEVATION, DIRECTLY FROM DIGITAL G.I.S. FILES
- ▨ DENOTES APPROXIMATE BUILDING AS DEPICTED FROM VARIOUS SATELLITE OR AERIAL PHOTOS

SCALES:



SCALE: 1" = 30'

CIVIL SITE PLAN



SCALE: 1" = 20'

GRADING AND DRAINAGE PLAN



SCALE: 1" = 20'

DEMOLITION PLAN/ENLARGED PLANS



SCALE: 1" = 30'

UTILITY PLAN



SCALE: 1" = 50'

SEQUENCE OF CONSTRUCTION



SCALE: 1" = 50'

PROFILE HORIZONTAL



SCALE: 1" = 10'

PROFILE HORIZONTAL



SCALE: 1" = 10'

PROFILE VERTICAL



SCALE: 1" = 2'

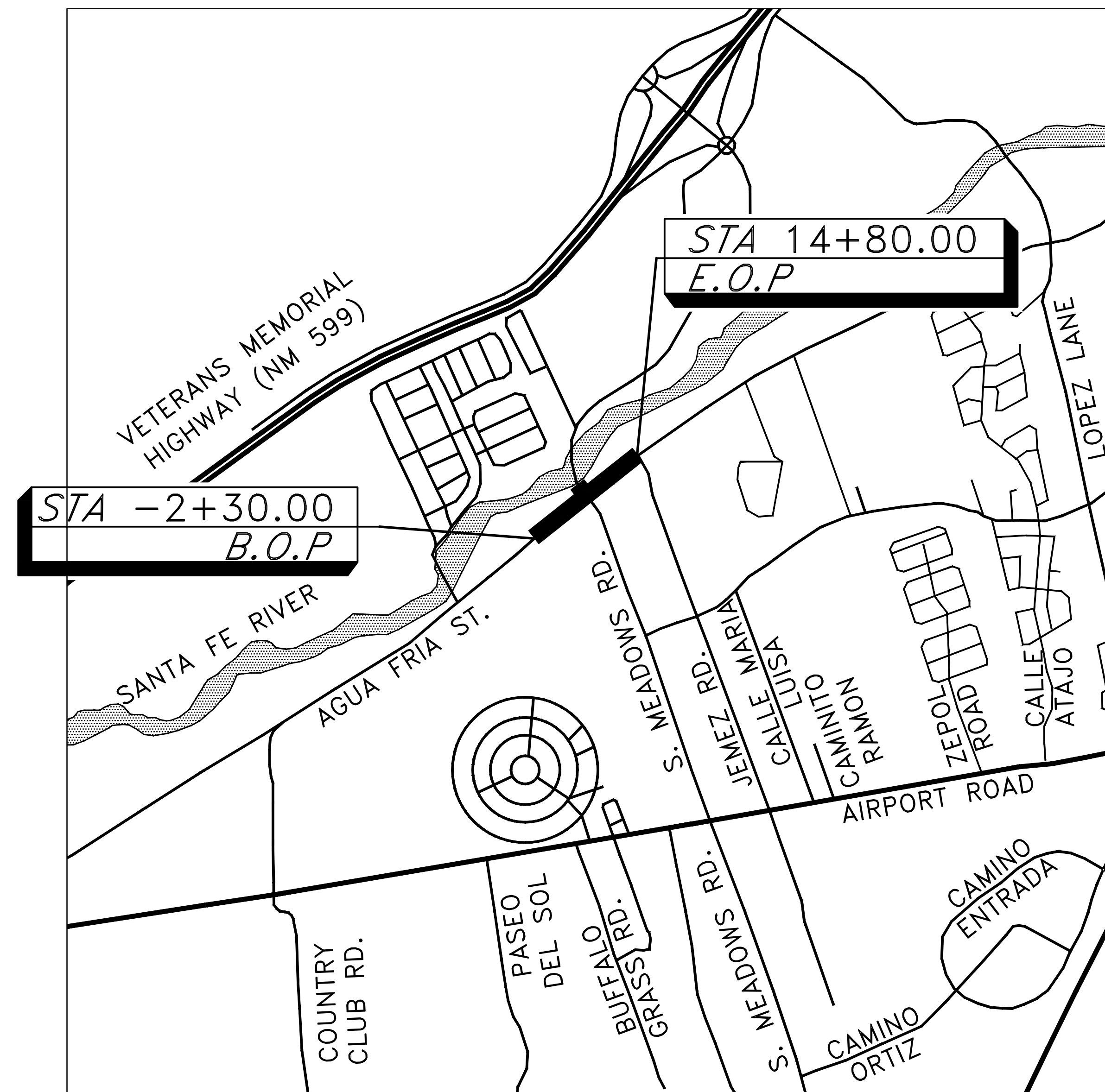
PROFILE VERTICAL



SCALE: 1" = 10'

SECTION

LENGTH OF PROJECT: 1,710.00 FEET



VICINITY MAP

SCALE= 1" = 1000'



3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C

AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
NOT FOR
CONSTRUCTION

VICINITY MAP

THE 2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL BE USED FOR THIS PROJECT.

THESE SPECIFICATIONS SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

DRAFT

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1-1	COVER SHEET
1-2	VICINITY MAP
1-3	INDEX OF SHEETS
1-4	CIVIL SITE PLAN
1-5	PAVING PLAN
1-6 TO 1-7	GENERAL NOTES
1-8	SUMMARY OF QUANTITIES
1-9	ENVIRONMENTAL NOTES
1-10	SITE ACCESSIBILITY PLAN
	SUB-TOTAL = 10 SHEETS
2-1	EXISTING TYPICAL SECTIONS
2-2	PROPOSED TYPICAL SECTIONS
2-3	TYPICAL DETAILS
2-4 TO 2-5	MISCELLANEOUS QUANTITIES
2-6	SCHEDULE OF BEST MANAGEMENT PRACTICES
2-7	TESCM PLAN
2-8 TO 2-10	DEMOLITION PLANS
2-11 TO 2-12	GEOMETRICS PLANS
2-13 TO 2-14	CURB RAMP DETAIL
2-15	REVEGETATION PLAN
2-16 TO 2-19	CERTIFIED TOPOGRAPHIC MAPS
2-20 TO 2-25	RIGHT-OF-WAY MAPS
	SUB-TOTAL = 25 SHEETS
3-1 TO 3-2	ROADWAY PLAN AND PROFILES
3-3 TO 3-5	GRADING AND DRAINAGE PLANS
3-6 TO 3-7	DETAILED CURB RAMP GRADING
	SUB-TOTAL = 7 SHEETS
4-1 TO 4-6	DRIVEWAY TURNOUTS
	SUB-TOTAL = 6 SHEETS
5-1	NOT USED
6-1	SUGGESTED SEQUENCE OF CONSTRUCTION
6-2 TO 6-3	CONSTRUCTION TRAFFIC CONTROL PLANS
6-4	CONSTRUCTION TRAFFIC CONTROL SIGN FACE DETAILS
6-5	CONSTRUCTION SIGNING SCHEDULE
	SUB-TOTAL = 5 SHEETS

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
7-1	PERMANENT SIGNING AND STRIPING PLAN
7-2	PERMANENT SIGNING AND STRIPING QUANTITIES AND DETAILS
	SUB-TOTAL = 2 SHEETS
8-1 TO 8-7	LIGHTING PLANS
	SUB-TOTAL = 7 SHEETS
9-1	TRAFFIC SIGNAL NOTES, EQUIPMENT REQ'S, & LEGEND
9-2	TRAFFIC SIGNAL QUANTITIES AND INCIDENTALS
9-3	TRAFFIC SIGNAL PLAN
9-4	TRAFFIC SIGNAL DETAILS
9-5	TRAFFIC SIGNAL CABLES & CONDUITS
9-6	TRAFFIC SIGNAL FUNCTIONS & DETECTORS
9-7	TRAFFIC SIGNAL METER PEDESTAL DETAIL
9-8	TEMPORARY TRAFFIC SIGNAL PLAN
	SUB-TOTAL = 8 SHEETS
10-1 TO 10-2	STRUCTURE SECTIONS
	SUB-TOTAL = 2 SHEETS
11-1	UTILITY NOTES
11-2	UTILITY PLAN
11-3 TO 11-6	SDCW WATER PLANS
	SUB-TOTAL = 6 SHEETS
12-1 TO 12-9	STANDARD DRAWINGS AND DETAILS
	SUB-TOTAL = 9 SHEETS
13-1 TO 13-5	ROADWAY CROSS SECTIONS
	SUB-TOTAL = 5 SHEETS
	TOTAL = 92 SHEETS

INDEX OF SERIALS			
SHEET	DESCRIPTION	REVISION DATE	SERIAL
12-1	City of Santa Fe Drainage Details		NA
12-2	New Mexico Dept. of Transportation Standard Drawings	4/10/2012	206-03-1/1, 206-07-1/1, 206-10-1/1 & 609-01-1/1
12-3	New Mexico Dept. of Transportation Standard Drawings - Drop Inlets	1/10/2013	623-14-1/3 TO 623-14-3/3
12-4 TO 12-6	Pedestrian Access Details	1/13/2015	608-001-1 TO 608-001-12
12-7 TO 12-8	Temporary Erosion & Sediment Control Measures	11/29/2004	603-01-1/7 TO 603-01-7/7
12-9	City of Santa Fe Sanitary Sewer Standard Construction Details	11/16/1994	NA

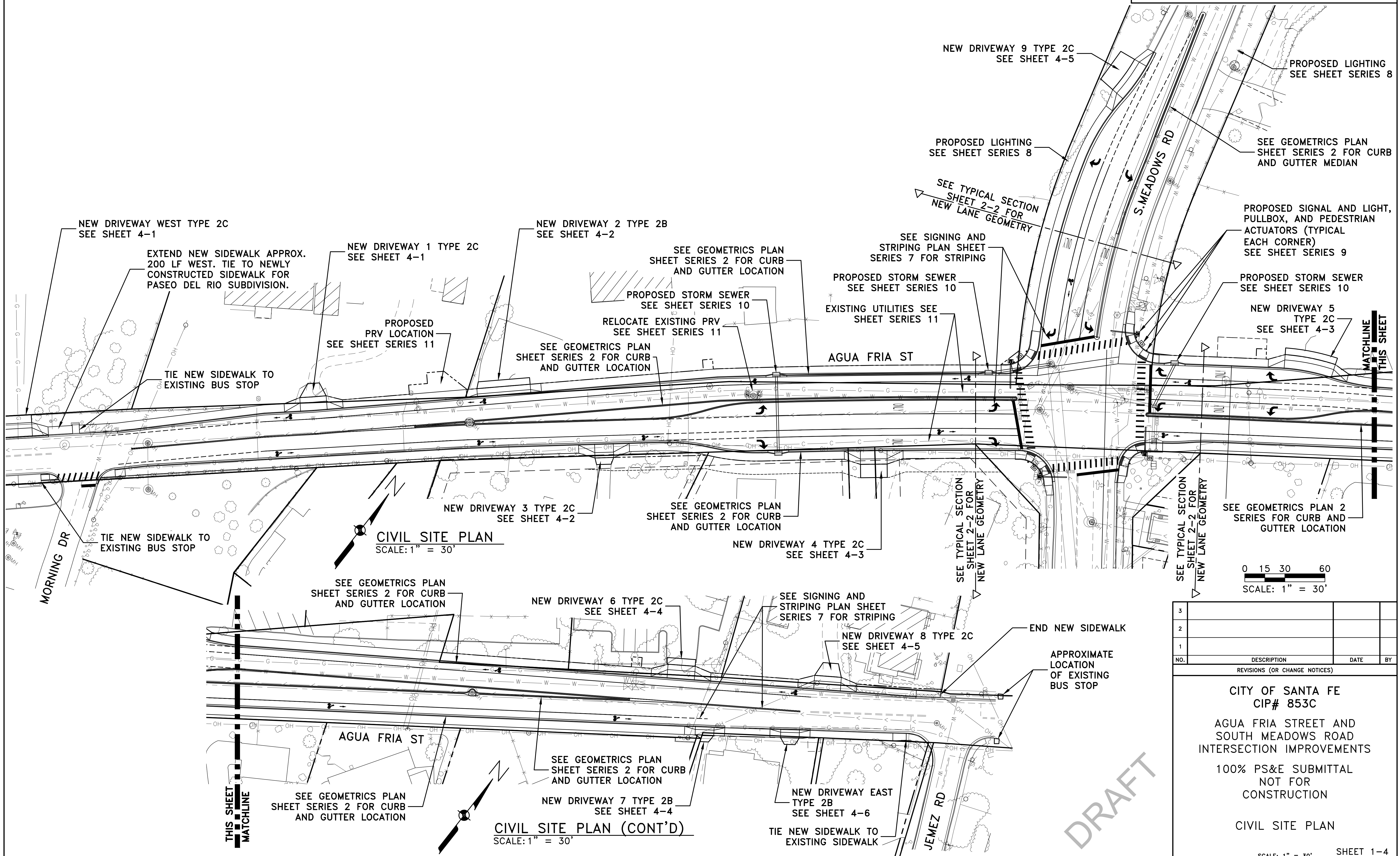
NO.	DESCRIPTION	DATE	BY
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2			
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REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS
100% PS&E SUBMITTAL
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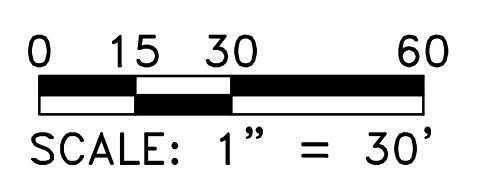
INDEX OF SHEETS

DRAFT



CIVIL SITE PLAN
SCALE: 1" = 30'

CIVIL SITE PLAN (CONT'D)
SCALE: 1" = 30'



NO.	DESCRIPTION	DATE	BY
3			
2			
1			





CITY OF SANTA FE
CIP# 853C
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CIVIL SITE PLAN

DRAFT

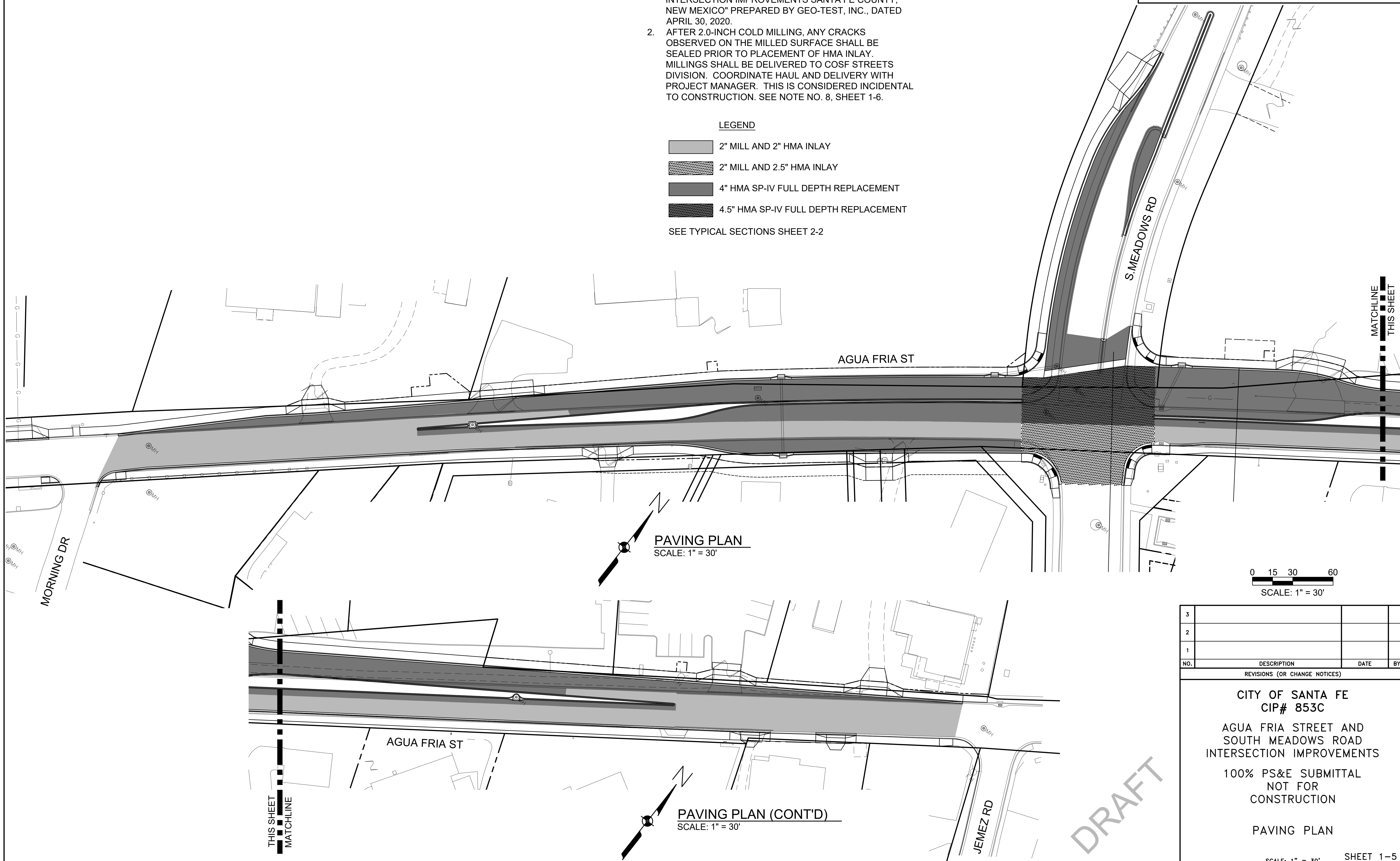
NOTES:

1. PAVEMENT DESIGN BASED UPON REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212 AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30, 2020.
2. AFTER 2.0-INCH COLD MILLING, ANY CRACKS OBSERVED ON THE MILLED SURFACE SHALL BE SEALED PRIOR TO PLACEMENT OF HMA INLAY. MILLINGS SHALL BE DELIVERED TO COSF STREETS DIVISION. COORDINATE HAUL AND DELIVERY WITH PROJECT MANAGER. THIS IS CONSIDERED INCIDENTAL TO CONSTRUCTION. SEE NOTE NO. 8, SHEET 1-6.

LEGEND

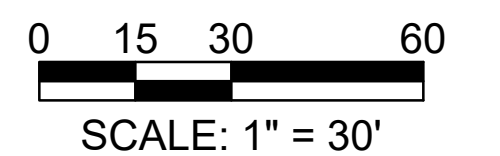
-  2" MILL AND 2" HMA INLAY
-  2" MILL AND 2.5" HMA INLAY
-  4" HMA SP-IV FULL DEPTH REPLACEMENT
-  4.5" HMA SP-IV FULL DEPTH REPLACEMENT

SEE TYPICAL SECTIONS SHEET 2-2



PAVING PLAN
SCALE: 1" = 30'

PAVING PLAN (CONT'D)
SCALE: 1" = 30'



3			
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SOUTH MEADOWS ROAD
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CONSTRUCTION

PAVING PLAN

DRAFT

GENERAL NOTES:

1. THE EARTHWORK QUANTITIES SHOWN DO NOT INCLUDE A SHRINKAGE FACTOR.
2. EARTHWORK HAUL AND EMBANKMENT FILL: THE EARTHWORK HAUL AND EMBANKMENT FILL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEMS 203000 – "UNCLASSIFIED EXCAVATION", AS APPLICABLE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
3. WARPING OF SLOPES: THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE CITY OF SANTA FE RIGHT OF WAY, CONSTRUCTION EASEMENT LIMITS AND AS SHOWN ON THESE PLANS.
4. MATERIAL PITS: NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE. ALL MATERIAL PIT ACTION SHALL BE GOVERNED BY SECTION 106 OF THE STANDARD SPECIFICATIONS.
5. THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 2.5' FROM BACK OF CURB. THE CLEAR ZONE IS MEASURED FROM THE EDGE OF THE BACK OF CURB. CLEAR ZONE SHIELDING SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
6. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE GEODETIC MARK PRESERVATION GUIDEBOOK, NATIONAL GEODETIC SURVEY, MARCH 1990. CONSTRUCTION STAKING DOCUMENTATION WILL BECOME THE PROPERTY OF THE DEPARTMENT WHEN THE WORK IS COMPLETE. PROVIDE CONSTRUCTION STAKING DOCUMENTATION TO THE PROJECT MANAGER. SUBMIT EARTHWORK QUANTITIES, SLOPE STAKING, SURFACE EXTRACTED CROSS SECTIONS AND EARTHWORK CALCULATIONS TO THE PROJECT MANAGER FOR REVIEW BEFORE COMPLETING THAT PHASE OF WORK. ENSURE A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR OR PROFESSIONAL ENGINEER STAMPS AND CERTIFIES THE QUANTITIES AND ALL SUBMITTALS. THE CITY WILL NOT ACCEPT EARTHWORK QUANTITIES UNTIL THE PROJECT MANAGER REVIEWS AND APPROVES THESE QUANTITIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE PROJECT. THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 601000 – "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
8. SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT A LOCATION AS DESIGNATED BY THE PROJECT MANAGER. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. COORDINATE WITH CITY OF SANTA FE FOR TRAFFIC SIGNAL EQUIPMENT STORAGE AND DELIVERY OF MILLINGS. SALVAGE, HAUL, AND STOCKPILE SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
9. SPEED LIMIT SIGNS IN WORK ZONES SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
10. THE PORTABLE CHANGEABLE MESSAGE BOARDS INCLUDED IN CONSTRUCTION SIGNING ARE TO BE UTILIZED DURING CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE THEM AS MANY TIMES AS DEEMED NECESSARY AT THE DISCRETION OF THE PROJECT MANAGER. THIS WORK WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 618000 – "TRAFFIC CONTROL MANAGEMENT", AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
11. THE CONTRACTOR MAY ASSIGN MORE THAN ONE TRAFFIC CONTROL SUPERVISOR(TCS) TO PROVIDE TRAFFIC CONTROL MANAGEMENT FOR THE PROJECT. IF ASSIGNING MORE THAN ONE TCS TO PROVIDE TRAFFIC CONTROL MANAGEMENT, SUBMIT TO THE PROJECT MANAGER A WEEKLY SCHEDULE IDENTIFYING WHO SHALL BE IN CHARGE OF PROVIDING TRAFFIC CONTROL MANAGEMENT EACH DAY. PROVIDE THE TCS WITH A SET OF TRAFFIC CONTROL PLANS AND A CURRENT COPY OF THE MUTCD. THE TCS SHALL POSSESS THESE AT ALL TIMES. IF USING A SUBCONTRACTOR TO PROVIDE TRAFFIC CONTROL MANAGEMENT, ENSURE THAT THE TCS IS IN ACCORDANCE WITH THE CONTRACT. THE CONTRACTOR MAY ASSIGN ONE OR MORE TRAFFIC CONTROL TECHNICIAN (TCT) TO ASSIST THE TCS IN INSPECTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES.
12. THE CONTRACTOR SHALL PROVIDE INGRESS & EGRESS TO LOCAL RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS MODIFICATIONS AT LEAST 2 WEEKS IN ADVANCE WITH THE PROPERTY OWNER AND THE PROJECT MANAGER AND REDUCE CLOSURES AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY FENCING REQUIRED AS COORDINATED WITH THE PROPERTY OWNER DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 618000 – "TRAFFIC CONTROL MANAGEMENT" AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
13. THE CONTRACTOR SHALL NOT REMOVE TREES WITHIN THE PROJECT UNLESS SPECIFICALLY DIRECTED BY THE PROJECT MANAGER. METHOD OF CUTTING. THE HEIGHT OF THE TREE STUMPS SHALL BE NO GREATER THAN 2 INCHES ABOVE NATURAL GROUND AFTER CUTTING. DISTURBANCE OF THE AREA BY GRADING OR DOZING OF THE TREES IS NOT PERMITTED. REMOVAL AND DISPOSAL SHALL BE DONE IN A MANNER ACCEPTABLE TO THE PROJECT MANAGER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE. TREE REMOVAL IF REQUIRED IS CONSIDERED INCIDENTAL TO THE COMPLETION OF THIS PROJECT.
14. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SEED ANY DISTURBED AREAS WHERE MATERIAL IS REMOVED OUTSIDE THE SLOPE STAKES BUT WITHIN THE CITY RIGHT OF WAY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 632000 – "CLASS "A" SEEDING", AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
15. MAINTENANCE OF AS-BUILT PLANS. 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. UPON 50% COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT PROGRESS AS-BUILT PLANS TO THE PROJECT MANAGER FOR REVIEW. THE FINAL AS-BUILT PLANS BEARING THE SIGNED SEAL AND CERTIFICATION OF THE CONTRACTOR'S SURVEYOR SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO ANY FINAL PAYMENT. THIS WORK IS CONSIDERED INCIDENTAL TO COMPLETION OF THE PROJECT AND NO MEASUREMENT OR PAYMENT SHALL BE MADE.
16. THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, LENGTHS, WIDTHS, CROSS SECTIONS AND CONTROL POINTS PRIOR TO COMMENCING ANY WORK ON THE PROJECT. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PRICE FOR ITEM NO. 801000 – "CONSTRUCTION STAKING", AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
17. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CLEAN INLETS, OUTLETS, GRADE TO DRAIN, AND ENSURE THAT EACH STRUCTURE WITHIN CITY RIGHT OF WAY FROM B.O.P. TO E.O.P WILL DRAIN AND FLOW PROPERLY. THE CONTRACTOR SHALL DISPOSE OF MATERIALS IN AN ENVIRONMENTALLY SAFE MANNER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO COMPLETION OF THE PROJECT AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
18. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE PAVEMENT DROP-OFF FOR MAINTENANCE AND ACTION IN ACCORDANCE WITH THE DEPARTMENT'S CURRENT AD241. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF CONSTRUCTION WORK ZONES AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE. DROP POLICY WILL BE PROVIDED BY THE PROJECT MANAGER AT THE PRECONSTRUCTION MEETING.

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
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INTERSECTION IMPROVEMENTS
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CONSTRUCTION

GENERAL NOTES

DRAFT

GENERAL NOTES (CONT'D):

19. CONTRACTOR SHALL COORDINATE ACTIVITIES TWO WEEKS PRIOR TO CONSTRUCTION WITH ALL UTILITIES WHEN WORKING NEAR OR AROUND ANY UTILITIES WITHIN CONTRACT BOUNDARY. THE CONTRACTOR SHALL ALSO BE ADVISED THAT UTILITY RELOCATIONS MAY HAVE TO BE PERFORMED CONCURRENT WITH CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH CONSTRUCTION OPERATIONS AND SHALL BE REQUIRED TO COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY OWNERS HAVING GIVEN AT LEAST TWO WEEKS ADVANCE NOTICE. ANY CLAIMS FOR DELAY SHALL BE CONTROLLED BY THE TERMS AND CONDITIONS OF SUBSECTION 105.6 "COOPERATION WITH UTILITIES" AND 107.21 "CONTRACTOR RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES" OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
20. SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 601000 - "REMOVAL OF STRUCTURES AND OBSTRUCTIONS". SAWCUT LOCATIONS SHALL BE DETERMINED BY THE PROJECT MANAGER. SEE TYPICAL SECTIONS AND DEMOLITION PLANS FOR APPROXIMATE SAWCUT LOCATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A YARD SITE SUITABLE FOR ALL EQUIPMENT AND MATERIALS TO BE USED ON THIS PROJECT. THE CONTRACTOR SHALL ACQUIRE ENVIRONMENTAL AND CULTURAL RESOURCES CLEARANCE OF THE SITE IN ACCORDANCE WITH SECTION 107 OF THE SPECIFICATIONS. THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 621000 - "MOBILIZATION", AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
22. DAMAGE TO EXISTING ROADWAY FEATURES AND PRIVATE PROPERTY. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO ANY EXISTING ROADWAY FEATURES OR PRIVATE PROPERTY (INCLUDING FENCES, IRRIGATION, AND LANDSCAPING) WHICH ARE NOT SCHEDULED TO BE REPLACED AS PART OF THIS PROJECT. IF DAMAGE OCCURS, THE CONTRACTOR SHALL REPAIR SAID DAMAGE AT OWN EXPENSE.
23. CONSTRUCTION PHASING: A SUGGESTED SEQUENCE OF CONSTRUCTION AND TRAFFIC HANDLING PLAN IS PROVIDED ON SHEET 6-1 OF THESE PLANS. THIS IS PROVIDED ONLY AS A SUGGESTION. ANY CHANGES MADE TO THE SUGGESTED SEQUENCE OR TRAFFIC HANDLING PLANS MUST BE APPROVED BY THE CITY OF SANTA FE TRAFFIC ENGINEER PRIOR TO IMPLEMENTATION.
24. PUBLIC NOTIFICATION OF LANE CLOSURES. THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL COORDINATE ALL ANTICIPATED LANE AND WALKWAY CLOSURES THAT WILL RESTRICT THE NORMAL FLOW OF TRAFFIC WITH THE CITY OF SANTA FE PUBLIC RELATIONS OFFICER AND THE LOCAL NEWS MEDIA. THIS WORK IS CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
25. REMOVALS OF EXISTING CURB AND GUTTER, ASPHALT MATERIAL, TRAFFIC SIGNAL AND LIGHTING EQUIPMENT AND ANY OTHER REQUIRED REMOVALS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 601000 - "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
26. ALL WORK SHALL COMPLY WITH THE LATEST ADA ACCESSIBILITY GUIDELINES, PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) AND THE NM DOT PEDESTRIAN ACCESS DETAILS [12 SERIES]. ANY CONFLICTING INFORMATION SHALL BE PRESENTED TO THE PROJECT MANAGER IMMEDIATELY.
27. ADA COMPLIANCE: THE CONTRACTOR SHALL ENSURE ADA COMPLIANCE FOR CONSTRUCTION OF ADA FEATURES AND APPURTENANCES (INCLUDING, BUT NOT LIMITED TO, SIDEWALK & CURB RAMP CROSS SLOPES, RAMP SLOPES, LEVEL LANDINGS, ETC.) AS DETAILED IN THE PLANS AND IN ACCORDANCE WITH REFERENCED STANDARD DRAWINGS, SPECIFICATIONS AND ESTABLISHED ADA ACCESSIBILITY GUIDELINES. THE CONTRACTOR IS RESPONSIBLE FOR FIELD CHECKING SLOPES AND DIMENSIONS OF ALL FORM WORK FOR COMPLIANCE PRIOR TO INSTALLATION OF CONCRETE. THE CITY RESERVES THE RIGHT TO INSPECT ANY ADA FEATURES AND APPURTENANCES AT ANY TIME BEFORE FINAL COMPLETION OF THE PROJECT AND TO HAVE THE CONTRACTOR REMOVE, REPLACE, AND/OR CORRECT ANY WORK AT HIS COST THAT IS NOT IN COMPLIANCE, AS DETERMINED BY THE PROJECT MANAGER.
28. ATTENDANCE AT THE PRE-CONSTRUCTION CONFERENCE (PRE-CON) AND BI-WEEKLY PROGRESS MEETINGS IS MANDATORY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

29. CONSTRUCTION MUST COMPLY WITH SECTION 14-8.12 (RELOCATION OF GUNNISON'S PRAIRIE DOGS).
30. ANY EQUIPMENT, MATERIALS, OR APPURTENANCES NOT LISTED ON THESE PLANS THAT ARE REQUIRED TO COMPLETE THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
31. MATERIAL QUALITY TESTING SHALL BE COMPLETED BY THE CONTRACTOR, THROUGH A RECOGNIZED TESTING LABORATORY. THE LABORATORY SHALL BE UNDER THE AUSPICES OF A NEW MEXICO PROFESSIONAL ENGINEER WHO SHALL REVIEW AND SIGN OFF ON ALL TESTS. ALL MATERIAL QUALITY TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE PROJECT MANAGER WITHIN SEVEN (7) CALENDAR DAYS AFTER LABORATORY MATERIAL TESTING IS COMPLETE, UNLESS OTHERWISE DIRECTED DURING THE PRE-CONSTRUCTION MEETING. FIELD TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE PROJECT MANAGER AT THE TIME OF FIELD TESTING. ALL TESTING SHALL COMPLY WITH THE METHODS IN THE SSHBC. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR 901000 - "CONTRACTOR PROCESS QUALITY CONTROL" AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
32. TO MINIMIZE NOISE IMPACTS, CONSTRUCTION WILL OCCUR DURING NORMAL WORKING HOURS (M-F, 8:00AM TO 5:00PM) UNLESS OTHERWISE APPROVED BY THE CITY OF SANTA FE TRAFFIC ENGINEER.
33. THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS HAVE BEEN COMPILED FROM MULTIPLE SOURCES, INCLUDING UTILITY LOCATES, POT HOLE LOCATIONS, AND FIELD SURVEYS.
34. TEMPORARY ACCESS ROUTES FOR PEDESTRIANS: ANY TEMPORARY ACCESS ROUTES FOR PEDESTRIANS SHALL BE COMPLIANT WITH ADA. SAFE, ACCESSIBLE PEDESTRIAN CROSSING MUST BE MAINTAINED DURING CONSTRUCTION - e.g. PROVIDING TEMPORARY PORTABLE CURB RAMPS ANCHORED IN PLACE ALONG EXISTING SIDEWALKS OR WITHIN PATH OF TRAVEL AS NEEDED (OR SIMILAR MODIFICATION) DURING CONSTRUCTION TO ACCOMMODATE PEDESTRIANS WITH DISABILITIES.
35. SANTA FE ENGINEERING CONSULTANTS, INC. WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY OR FOR PROBLEMS WHICH ARISE FROM FAILURE TO OBTAIN AND/OR FOLLOW SFEC GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS. TELEVISION INSPECTION TO BE PROVIDED BY PRIVATE CONTRACTOR, NOT THE CITY.
36. IF ANY SHEET FROM THIS PLAN SET IS NOT 24"x36", IT HAS BEEN REPRODUCED AT A SCALE OTHER THAN WHAT IS SHOWN ON THAT SHEET'S GRAPHIC SCALE(S). GRAPHIC SCALE SIZES SHALL BE VERIFIED USING AN ENGINEER'S SCALE PRIOR TO TAKING ANY MEASUREMENTS.

LIST OF INCIDENTALS		
NO.	DESCRIPTION	NOTE NO.
1	CLEAR ZONE SHIELDING	5
2	SALVAGE, HAUL, AND STOCKPILE	8
3	TREE REMOVAL IF REQUIRED	13
4	AS-BUILT PLANS	15
5	STRUCTURE CLEANING	17
6	PAVEMENT DROP-OFF	18
7	PUBLIC NOTIFICATION	24
8	TRAFFIC SIGNAL AND LIGHTING EQUIPMENT REMOVAL	25
9	PROGRESS MEETINGS	28
10	NON-LISTED ITEMS	30

3			
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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS
100% PS&E SUBMITTAL
NOT FOR
CONSTRUCTION

GENERAL NOTES (CONT'D)

DRAFT

SUMMARY OF QUANTITIES

ITEM NO.	ROADWAY ITEMS	UNIT	ROADWAY		CONSTRUCTION SIGNING		PERMANENT SIGNING		UTILITIES		PROJECT TOTAL	
			EST.	FINAL	EST	FINAL	EST	FINAL	EST	FINAL	EST	FINAL
203000	UNCLASSIFIED EXCAVATION	C.Y.	400		0		0		0		400	
207000	SUBGRADE PREPARATION	S.Y.	4,298		0		0		0		4,298	
303160	BASECOURSE - 6"	S.Y.	4,298		0		0		0		4,298	
407100	TACK COAT	TONS	2.5		0		0		0		2.5	
408100	PRIME COAT	TONS	6.5		0		0		0		6.5	
414120	COLD MILLING ASPHALT - 2"	S.Y.	3,071		0		0		0		3,071	
423283	HMA SP-IV COMPLETE	TONS	1,315		0		0		0		1,315	
570018	18" CULVERT PIPE	L.F.	312		0		0		0		312	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	1		0		0		0		1	
603251	DROP INLET PROTECTION TYPE II	EA.	6		0		0		0		6	
603261	MULCH SOCKS	L.F.	3,300		0		0		0		3,300	
607199	REMOVE AND REBUILD FENCE	L.F.	1,430		0		0		0		1,430	
607251	REMOVE AND RESET GATE	EA.	4		0		0		0		4	
608004	CONCRETE SIDEWALK - 4"	S.Y.	2,702		0		0		0		2,702	
608106	DRIVE PAD - 6"	S.Y.	503		0		0		0		503	
608404	CONCRETE MEDIAN PAVEMENT 4" (COLORED AND PATTERNED OATMEAL BUFF)	S.Y.	368		0		0		0		368	
609412	CONCRETE VERTICAL CURB AND GUTTER TYPE B 6" X 12"	L.F.	1,925		0		0		0		1,925	
609418	CONCRETE VERTICAL CURB AND GUTTER TYPE B 6" X 18"	L.F.	2,672		0		0		0		2,672	
609424	CONCRETE VERTICAL CURB AND GUTTER TYPE B 6" X 24"	L.F.	633		0		0		0		633	
609649	CONCRETE VALLEY GUTTER 6" X 60"	L.F.	64		0		0		0		64	
609999	CONCRETE CURB RETURNS (COMPLETE)	S.Y.	49		0		0		0		49	
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	1		0		0		0		1	
621000	MOBILIZATION	L.S.	1		0		0		0		1	
623000	MDI TYPE I (URBAN)	EA.	4		0		0		0		4	
623404	DROP INLET TYPE I	EA.	4		0		0		0		4	
632000	SEEDING CLASS A	AC.	1		0		0		0		1	
662300	TIE TO EXISTING MANHOLE	EA.	2		0		0		0		2	
662400	ADJUST MANHOLE	EA.	4		0		0		0		4	
662500	MANHOLE FRAME AND COVER	EA.	1		0		0		2		3	
663000	UTILITY RELOCATIONS	L.S.	0		0		0		1		1	
663001	PRV RELOCATION (REMOVE AND REPLACE)	EA.	0		0		0		1		1	
667110	MAILBOX INSTALLATION - SINGLE	EA.	6		0		0		0		6	
701000	PANEL SIGNS	S.F.	0		0		75		0		75	
701030	REMOVE AND RESET PANEL SIGN	EA.	0		0		9		0		9	
701100	STEEL/BASE POST FOR ALUMINUM PANEL SIGNS	L.F.	0		0		95		0		95	
702000	CONSTRUCTION SIGNING	S.F.	0		97		0		0		97	
702100	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	EA.	0		20		0		0		20	
702320	VERTICAL PANEL, TYPE BACK TO BACK	EA.	0		97		0		0		97	
702238	BARRICADE, TYPE II	EA.	0		8		0		0		8	
702610	PORTABLE CHANGEABLE MESSAGE SIGN	EA.	0		4		0		0		4	
702700	TEMPORARY SIGNAL SPAN	L.S.	0		1		0		0		1	
704717	PAVEMENT MARKING RIGHT ARROW	EA	0		0		6		0		6	
704718	PAVEMENT MARKING LEFT ARROW	EA	0		0		4		0		4	
704720	PAVEMENT MARKING WORD ONLY	EA	0		0		5		0		5	
704734	HOT THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL	EA.	0		0		14		0		14	
704754	RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE 4"	L.F.	0		0		4,716		0		4,716	
704762	RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE 12"	L.F.	0		0		539		0		539	
704764	RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE 24"	L.F.	0		0		161		0		161	
707000	TRAFFIC SIGNAL ITEMS COMPLETE IN PLACE	L.S.	0		0		0		1		1	
716000	LIGHTING ITEMS COMPLETE IN PLACE	L.S.	0		0		0		1		1	
801000	CONSTRUCTION STAKING BY CONTRACTOR	L.S.	1		0		0		0		1	
802000	POST CONSTRUCTION PLANS	L.S.	1		0		0		0		1	
901000	CONTRACTOR PROCESS QUALITY CONTROL	L.S.	1		0		0		0		1	

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

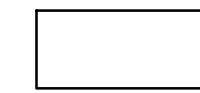
CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS
100% PS&E SUBMITTAL
NOT FOR
CONSTRUCTION

SUMMARY OF QUANTITIES

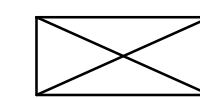
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ENVIRONMENTAL COMMITMENTS

THE CONTRACTOR SHALL REFER TO SECTION 107 OF THE SPECIFICATIONS, MAKING SPECIAL NOTE OF SUB-SECTION 107.14: CONTRACTOR'S RESPONSIBILITIES FOR ENVIRONMENTAL AND CULTURAL RESOURCE PROTECTION.



NO ADDITIONAL PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY



IN ADDITION TO SECTION 107, THE FOLLOWING PROJECT-SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY. COMPLIANCE WITH THE FOLLOWING REQUIREMENTS SHALL BE INCIDENTAL TO CONSTRUCTION, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR:

1. AGUA FRIA/SOUTH MEADOWS INTERSECTION IMPROVEMENTS SHOULD BE COMPLETED OUTSIDE OF THE MIGRATORY BIRD NESTING SEASON (CONSERVATIVELY DESIGNATED AS APRIL THROUGH SEPTEMBER). ANY WORK DONE WITHIN THE NESTING SEASON WOULD NECESSITATE A NESTING BIRD SURVEY, NEST MARKING AND AVOIDANCE, AND POTENTIAL TAKE PERMITS FROM THE UNITED STATES FISH & WILDLIFE SERVICE (USFWS).
2. NO RIPARIAN VEGETATION SHOULD BE DISTURBED.
3. CLASS C NOXIOUS WEEDS SUCH AS TREE OF HEAVEN (AILANTHUS ALTISSIMA), SIBERIAN ELM (ULMUS PUMILA), AND RUSSIAN OLIVE (ELEAGNUS ANGUSTIFOLIA) SHOULD BE REMOVED (BY CITY OF SANTA FE PARKS AND RECREATION DEPARTMENT) AND TREATED WITH THE APPROPRIATE HERBICIDE TO PREVENT REGROWTH.
4. TO MINIMIZE THE INTRODUCTION AND SPREAD OF NOXIOUS WEEDS, EQUIPMENT SHOULD BE CLEANED PRIOR TO PERFORMING WORK IN THE PROJECT AREA. THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
5. BEST MANAGEMENT PRACTICES FOR SEDIMENT AND EROSION CONTROL SHOULD BE IMPLEMENTED DURING CONSTRUCTION. EQUIPMENT SHOULD BE FREE OF LEAKS AND NO MAINTENANCE, REFUELING, OR CLEANING OF EQUIPMENT SHOULD BE CONDUCTED IN OR NEAR THE SANTA FE RIVER.
6. CONSTRUCTION MUST COMPLY WITH SECTION 14-8.12 (RELOCATION OF GUNNISON'S PRAIRIE DOGS.)
7. IF BURIED CULTURAL DEPOSITS ARE DISCOVERED DURING PROJECT ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THAT AREA AND THE STATE HISTORIC PRESERVATION OFFICER SHALL BE NOTIFIED.

ENVIRONMENTAL SECTION MANAGER

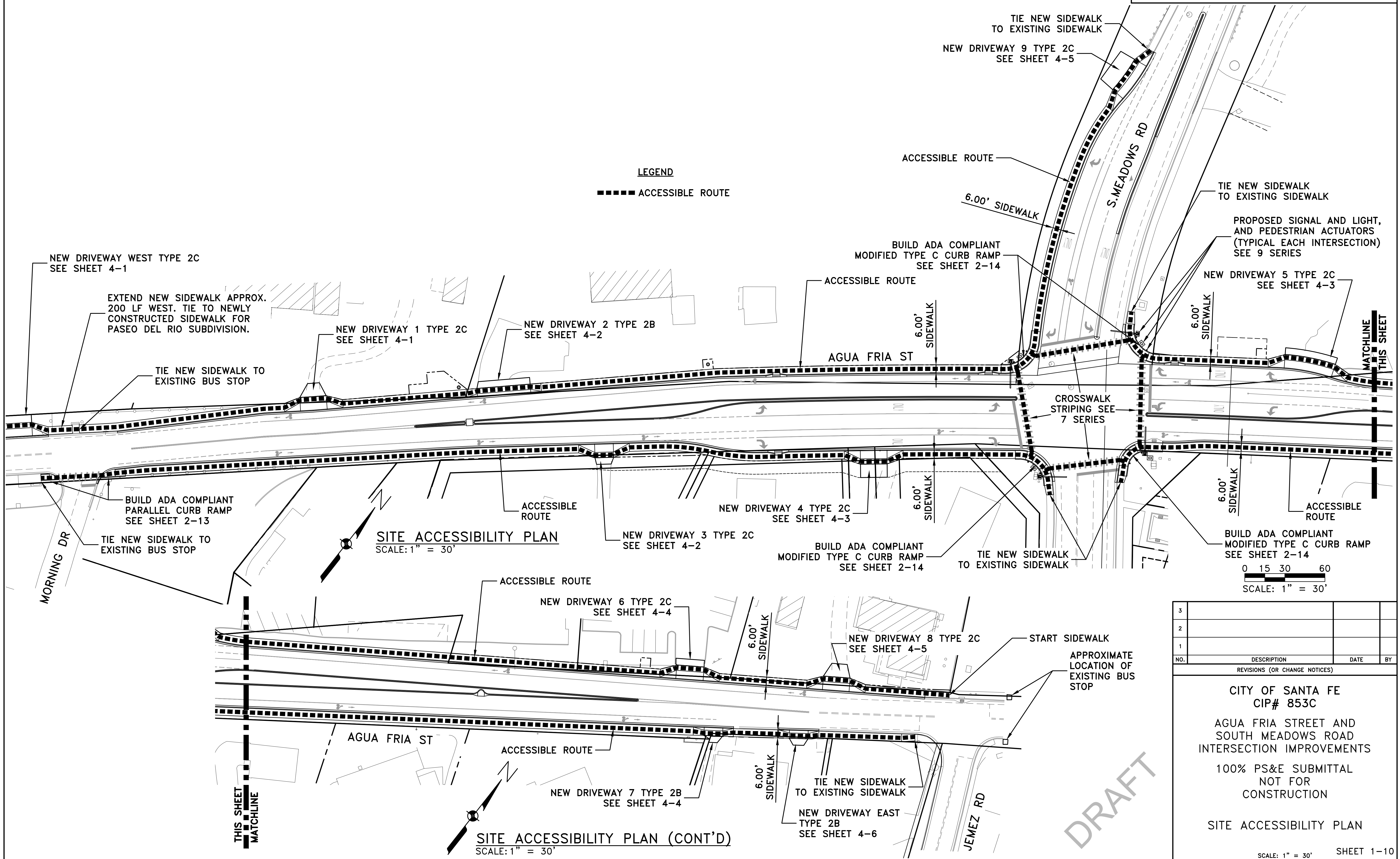
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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS
100% PS&E SUBMITTAL
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CONSTRUCTION

ENVIRONMENTAL NOTES

DRAFT



SITE ACCESSIBILITY PLAN
 SCALE: 1" = 30'

SITE ACCESSIBILITY PLAN (CONT'D)
 SCALE: 1" = 30'

0 15 30 60
 SCALE: 1" = 30'

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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

CITY OF SANTA FE
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 AGUA FRIA STREET AND
 SOUTH MEADOWS ROAD
 INTERSECTION IMPROVEMENTS
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 NOT FOR
 CONSTRUCTION
 SITE ACCESSIBILITY PLAN

DRAFT

EXISTING PAVEMENT NOTE:

ASSUMED EXISTING PAVEMENT THICKNESSES ARE BASED UPON:

- SANTA FE COUNTY PUBLIC WORKS PROJECT NO.98-05 FOR AGUA FRIA STREET
- CITY OF SANTA FE PUBLIC WORKS PROJECT NO. 06-143 FOR SOUTH MEADOWS ROAD SOUTH OF AGUA FRIA
- SANTA FE COUNTY SOUTH MEADOWS ROAD EXTENSION c.2009 FOR SOUTH MEADOWS ROAD NORTH OF AGUA FRIA

AGUA FRIA IS ASSUMED TO HAVE:

- 4" ASPHALT*
- 6" BASE COURSE*
- 8" SUBGRADE PREPARATION*
- GEOTEXTILE*

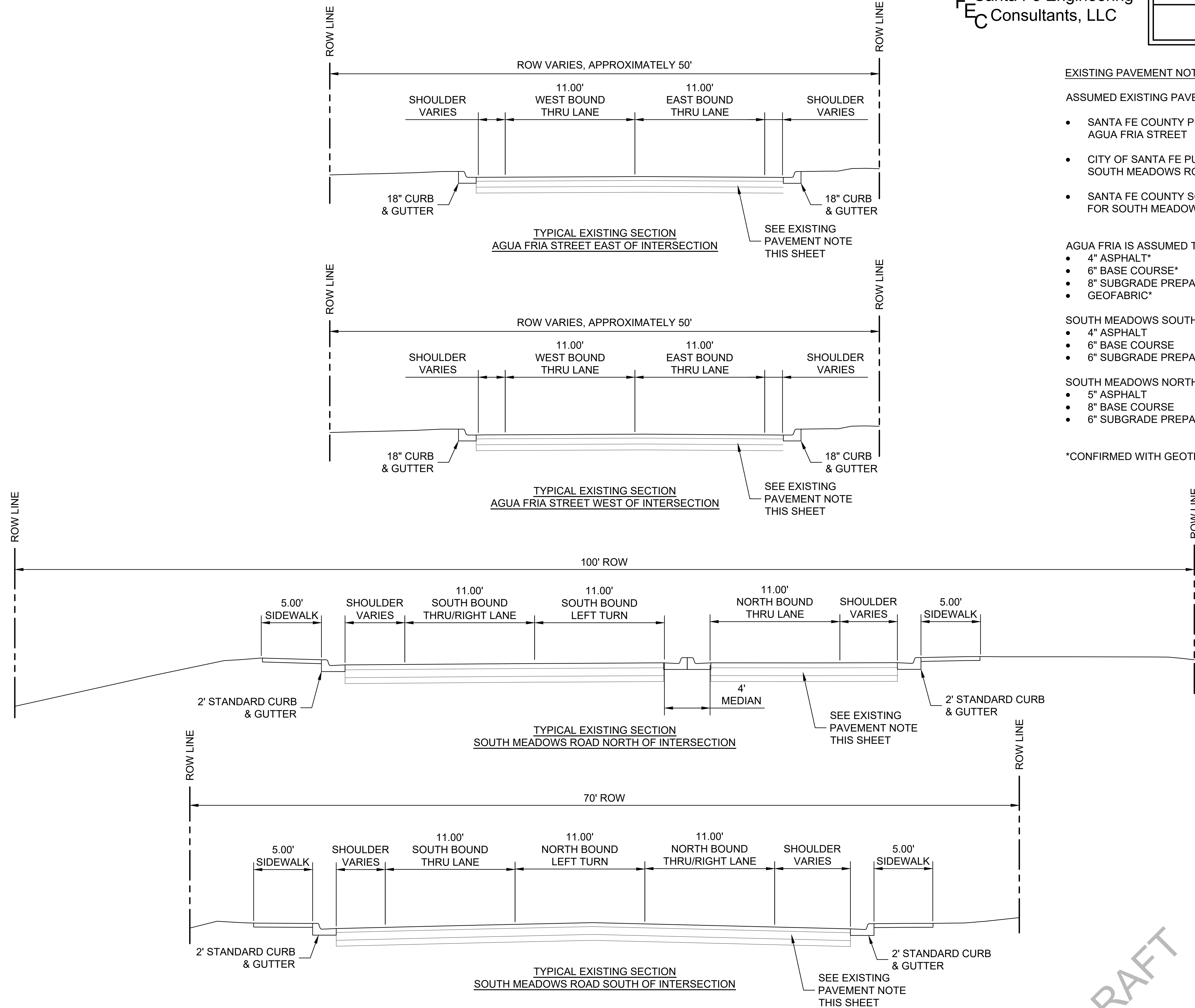
SOUTH MEADOWS SOUTH OF AGUA FRIA IS ASSUMED TO HAVE:

- 4" ASPHALT
- 6" BASE COURSE
- 6" SUBGRADE PREPARATION

SOUTH MEADOWS NORTH OF AGUA FRIA IS ASSUMED TO HAVE:

- 5" ASPHALT
- 8" BASE COURSE
- 6" SUBGRADE PREPARATION

*CONFIRMED WITH GEOTECHNICAL INVESTIGATIONS



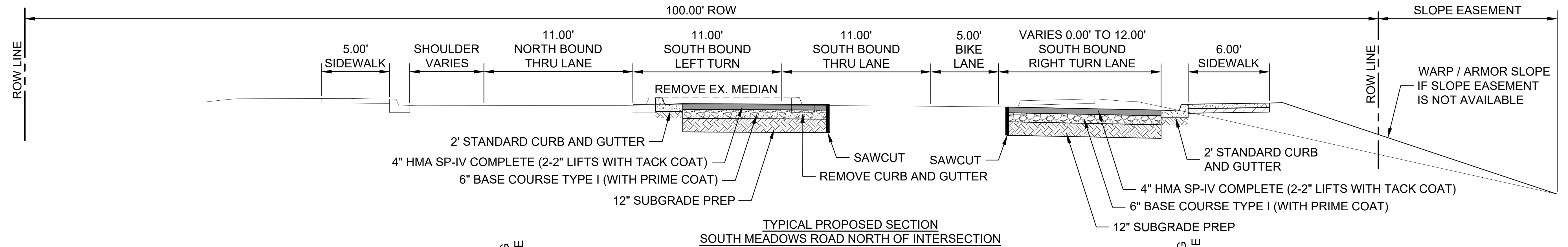
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REVISIONS (OR CHANGE NOTICES)

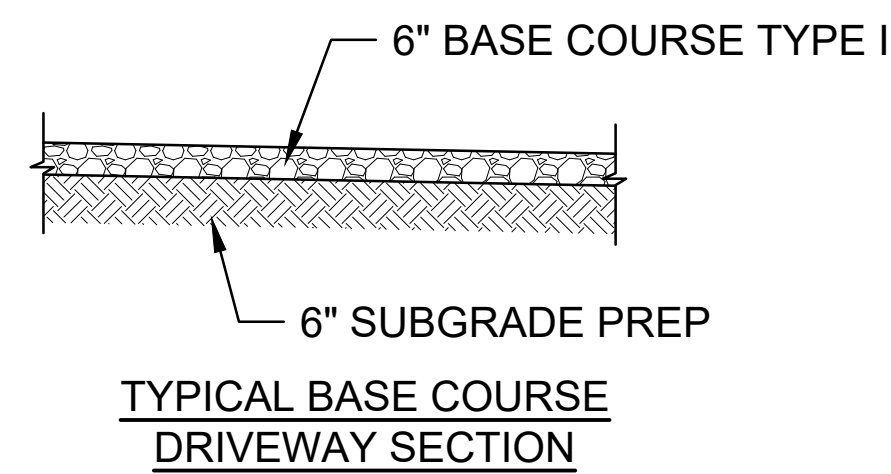
CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
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EXISTING TYPICAL SECTIONS

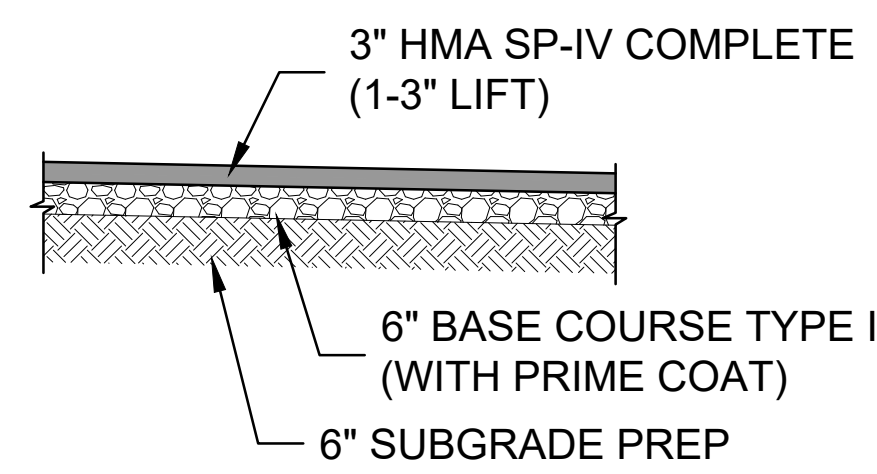
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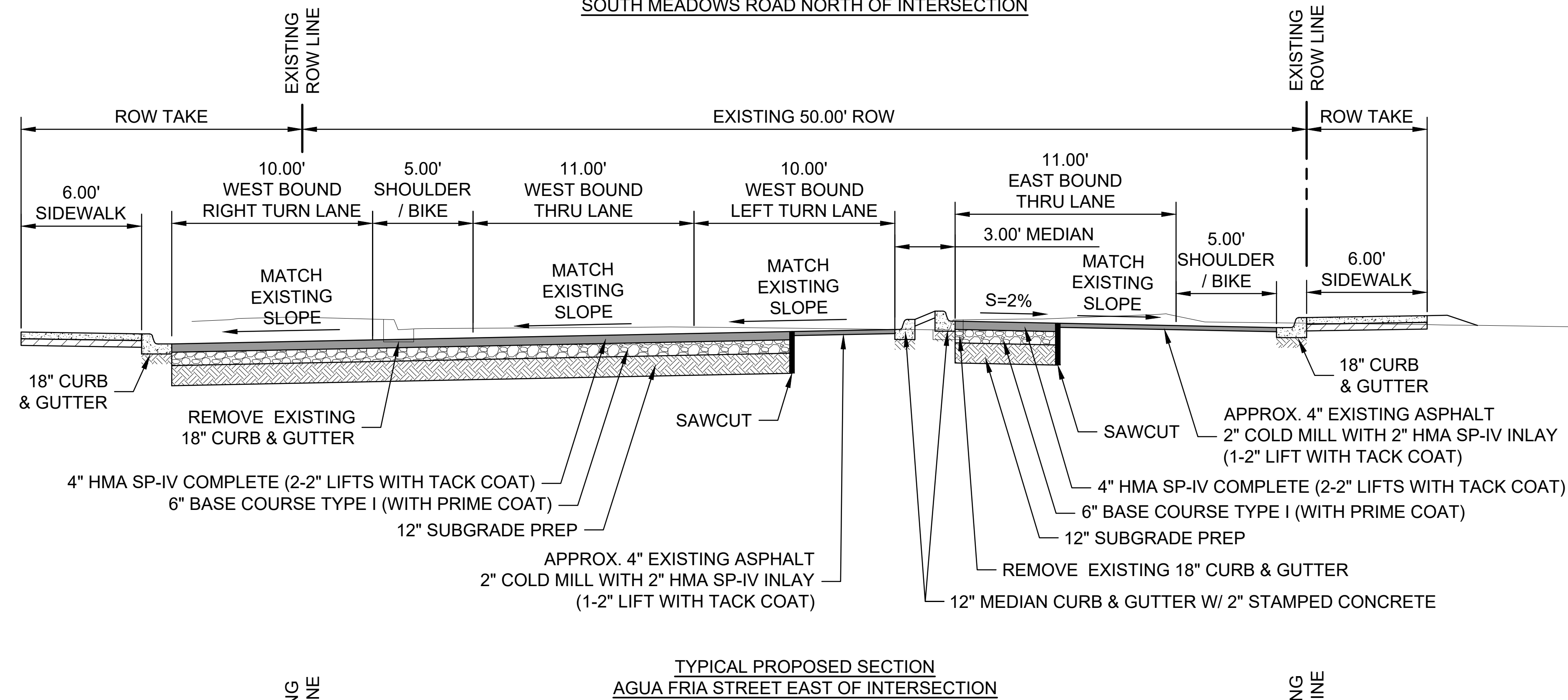
TYPICAL PROPOSED SECTION
 SOUTH MEADOWS ROAD NORTH OF INTERSECTION



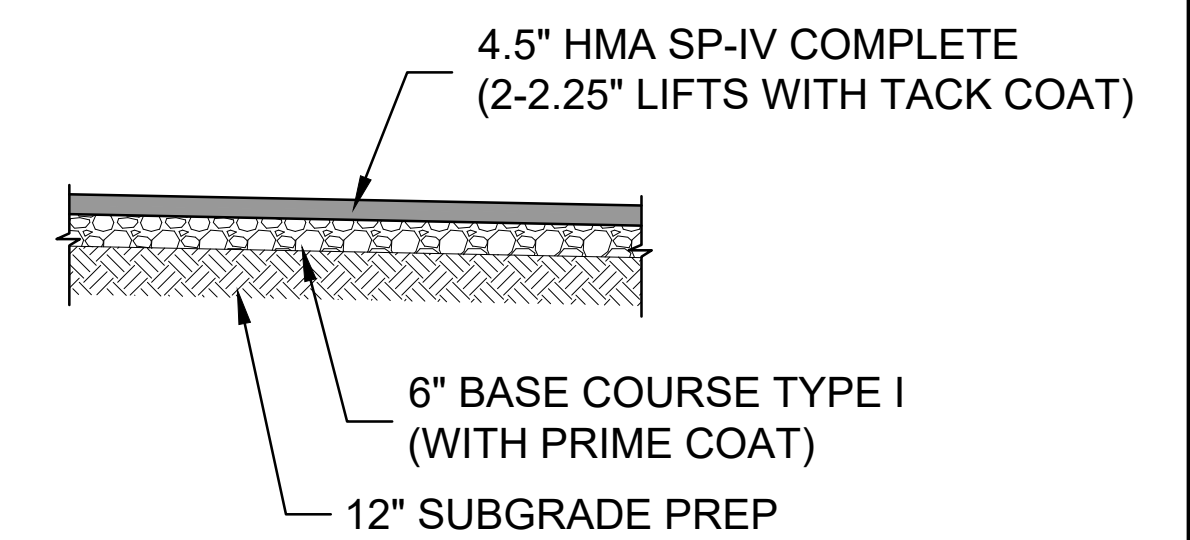
TYPICAL BASE COURSE
 DRIVEWAY SECTION



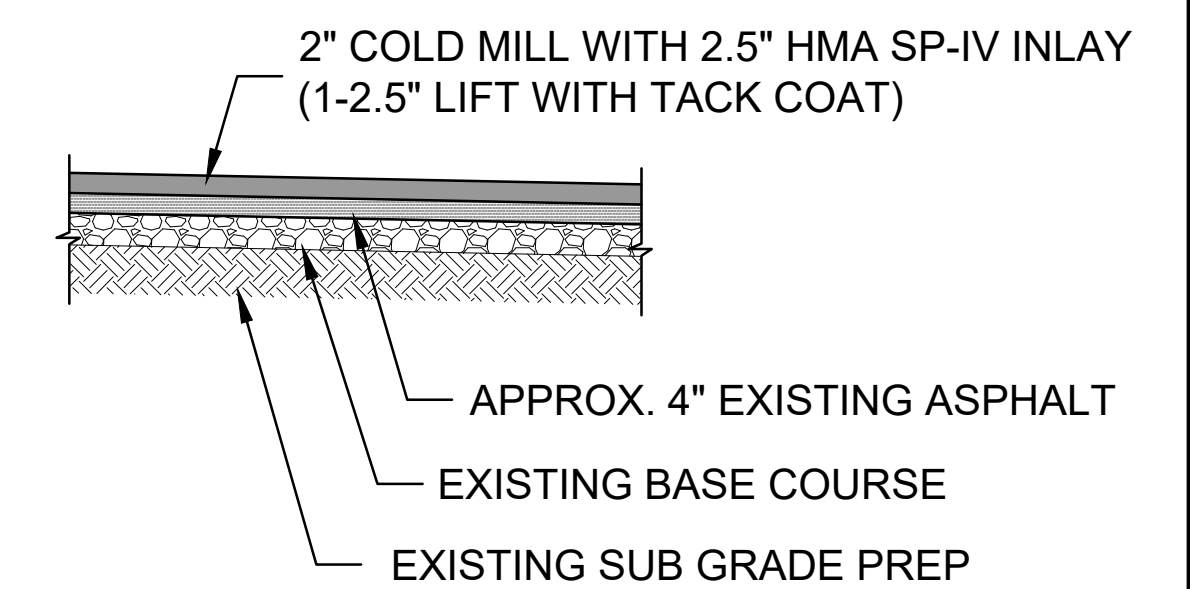
TYPICAL PAVED
 DRIVEWAY SECTION



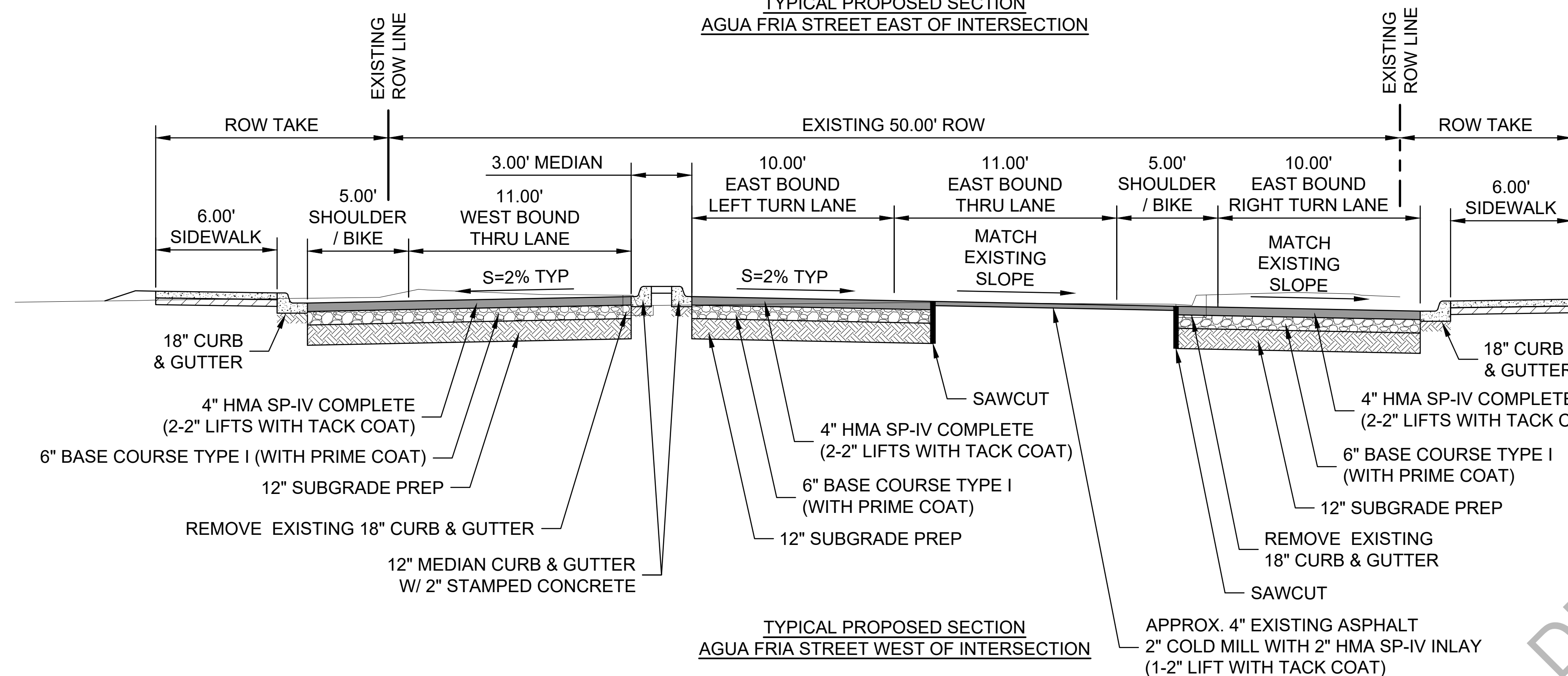
TYPICAL PROPOSED SECTION
 AGUA FRIA STREET EAST OF INTERSECTION



TYPICAL INTERSECTION FULL
 DEPTH REPLACEMENT SECTION



TYPICAL INTERSECTION
 MILL & INLAY SECTION



TYPICAL PROPOSED SECTION
 AGUA FRIA STREET WEST OF INTERSECTION

NOTES:

- PAVEMENT DESIGN BASED UPON REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212 AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30, 2020.
- AFTER 2.0-INCH COLD MILLING, ANY CRACKS OBSERVED ON THE MILLED SURFACE SHALL BE SEALED PRIOR TO PLACEMENT OF HMA INLAY. THIS IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

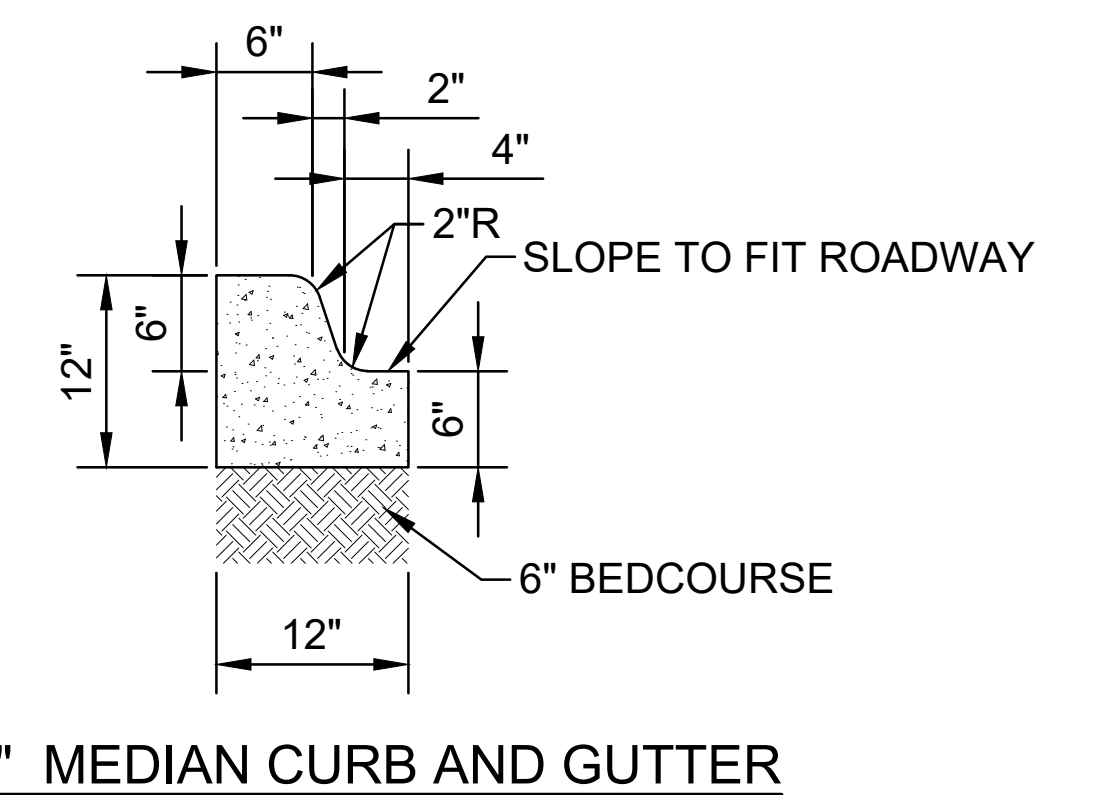
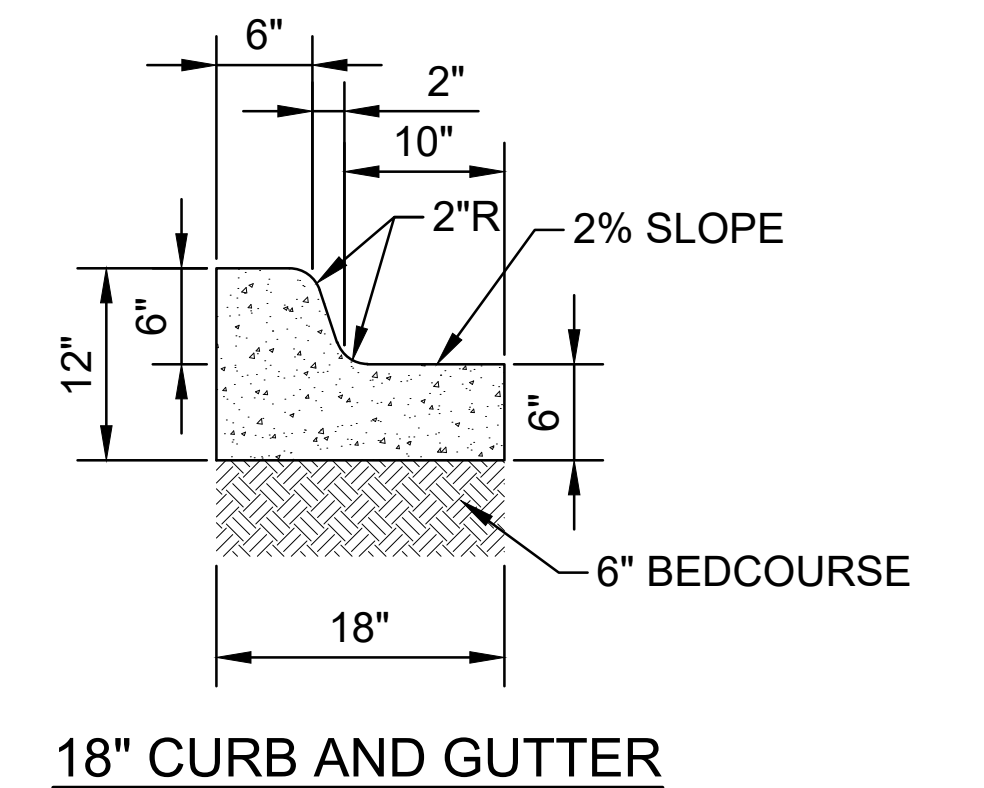
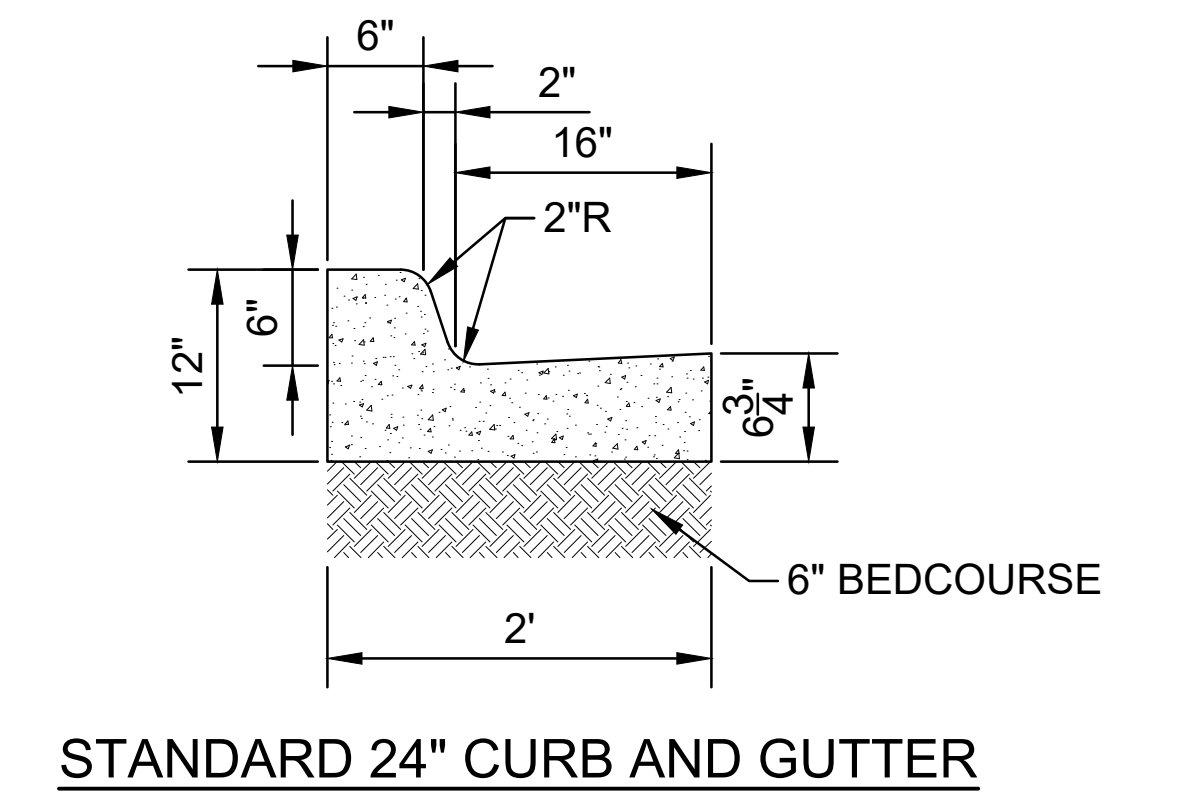
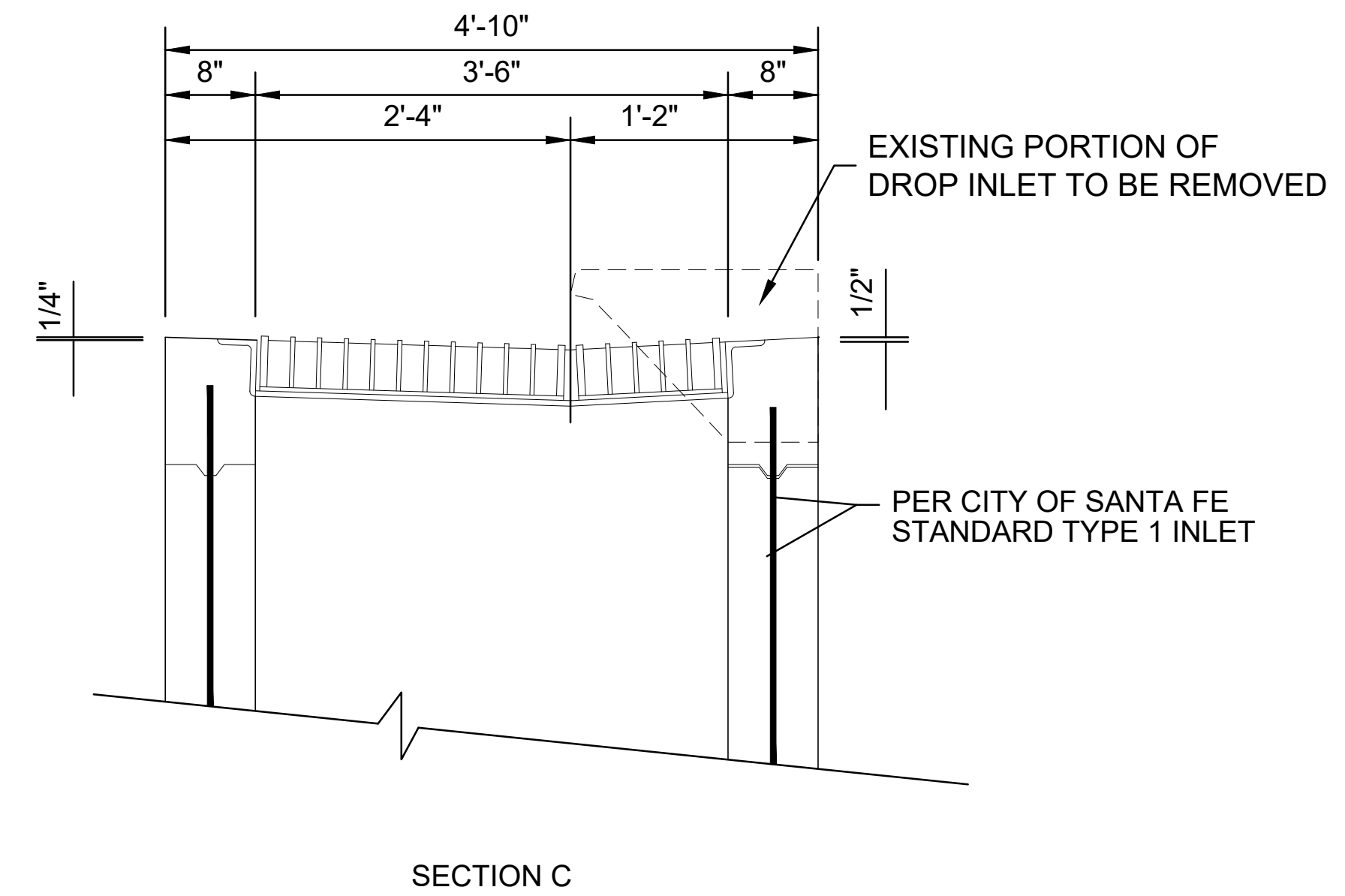
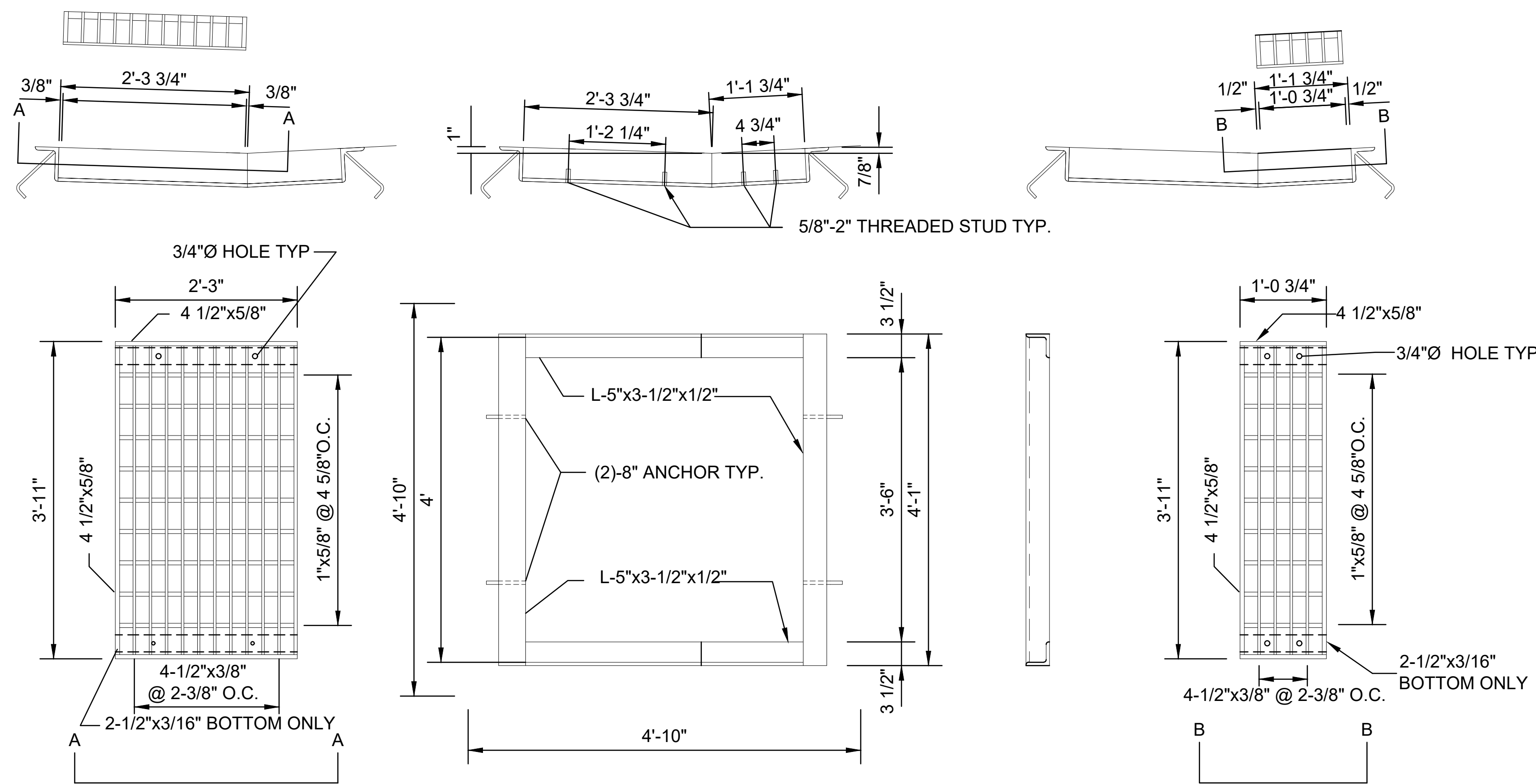
NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
 CIP# 853C
 AGUA FRIA STREET AND
 SOUTH MEADOWS ROAD
 INTERSECTION IMPROVEMENTS
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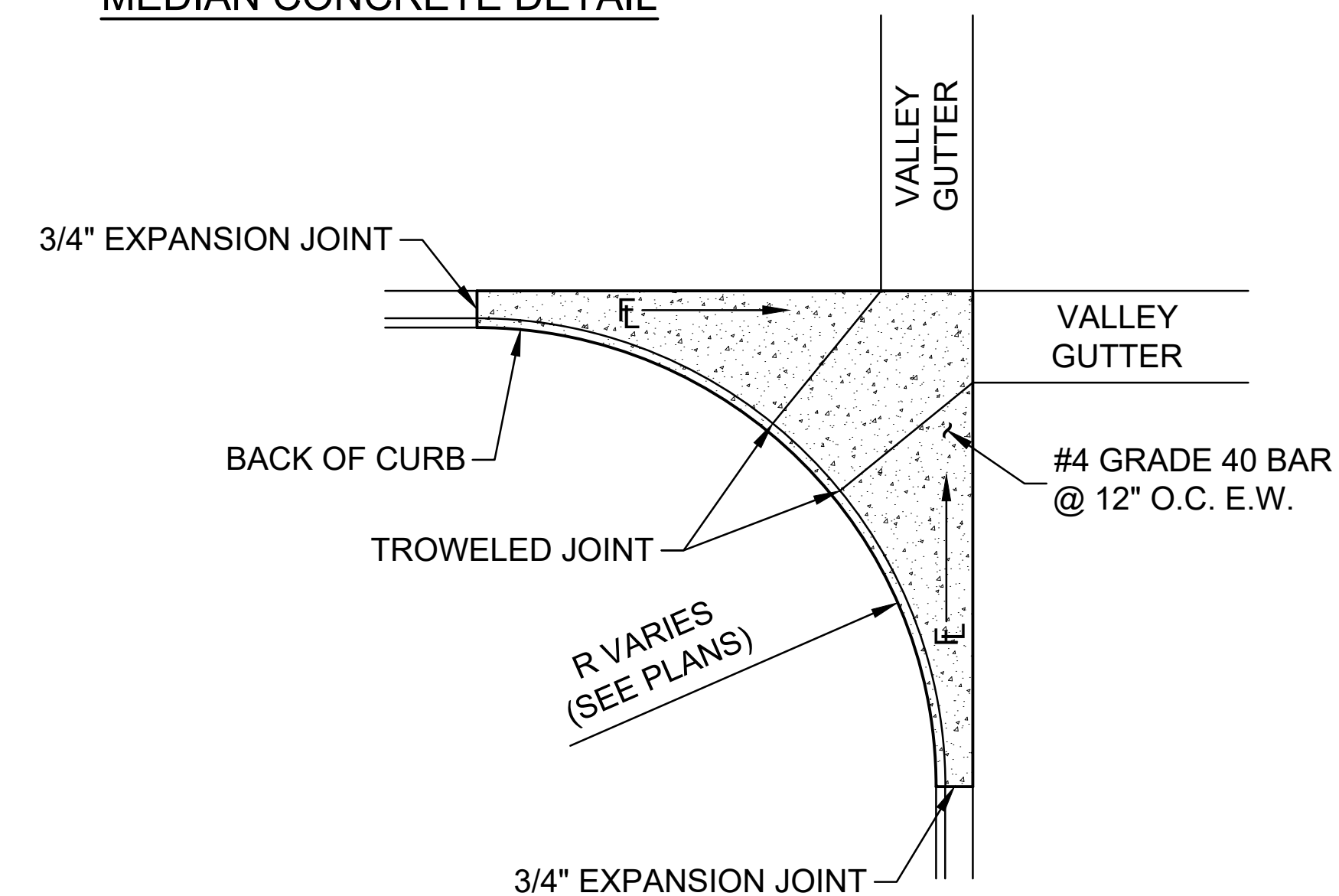
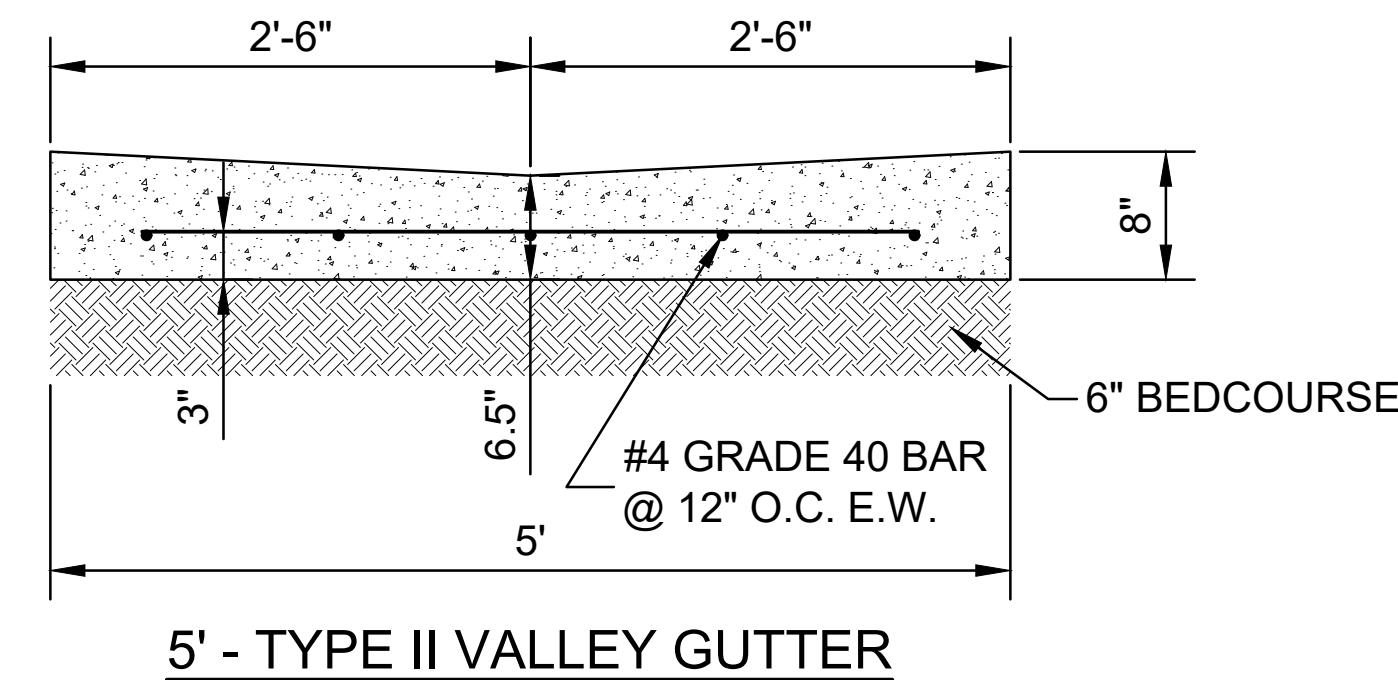
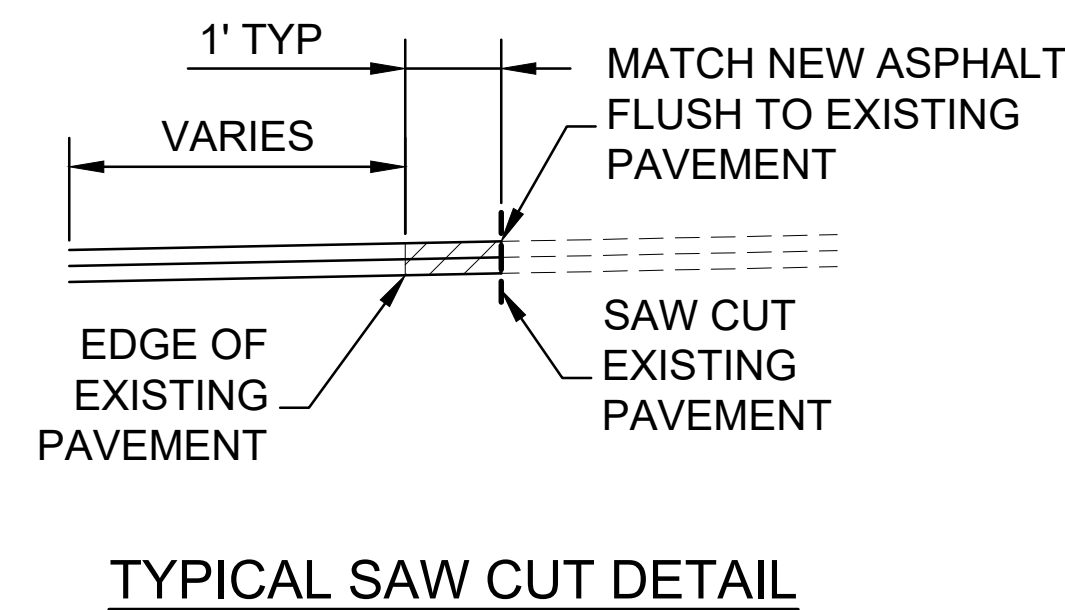
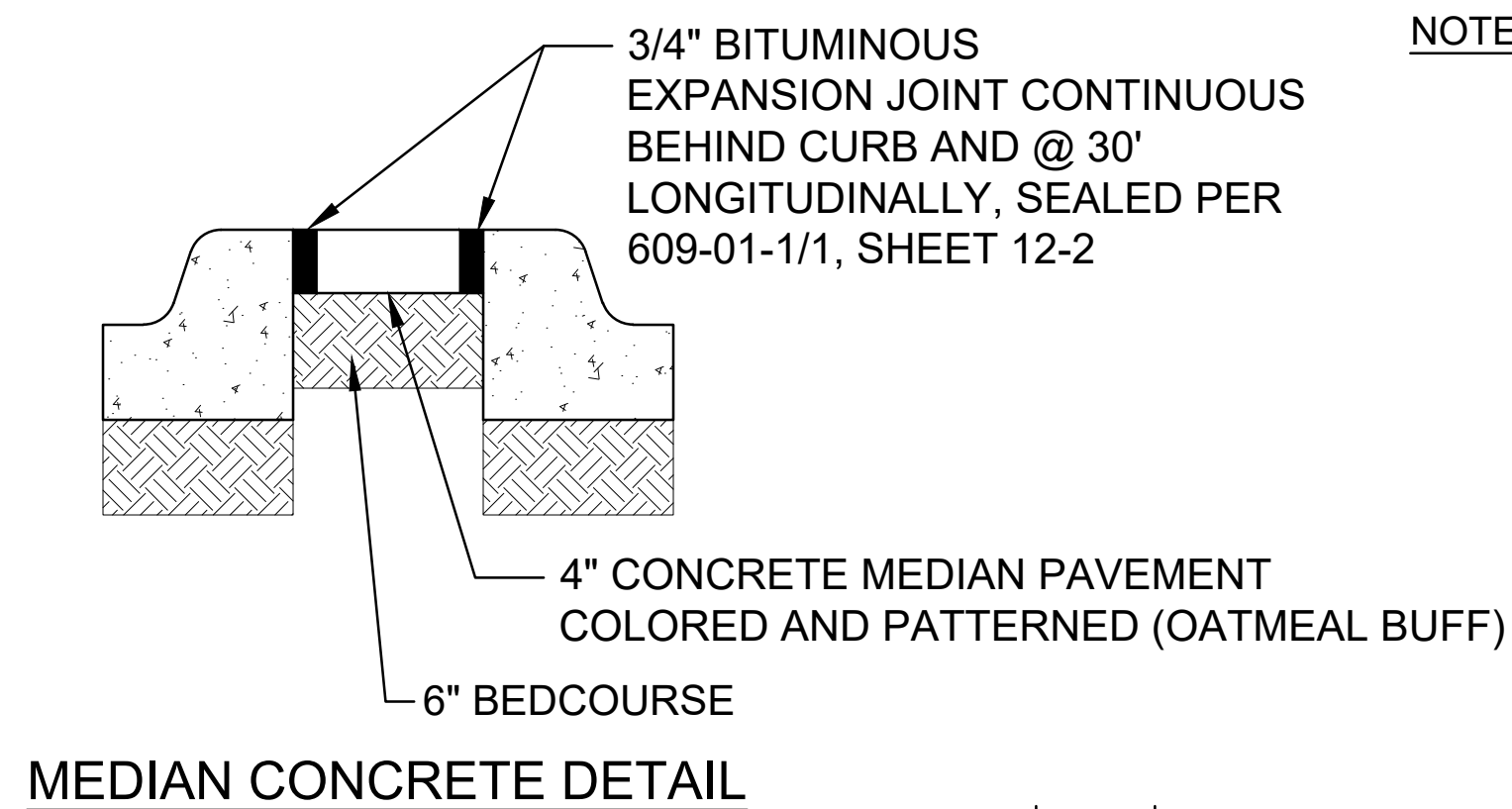
PROPOSED TYPICAL SECTIONS

DRAFT



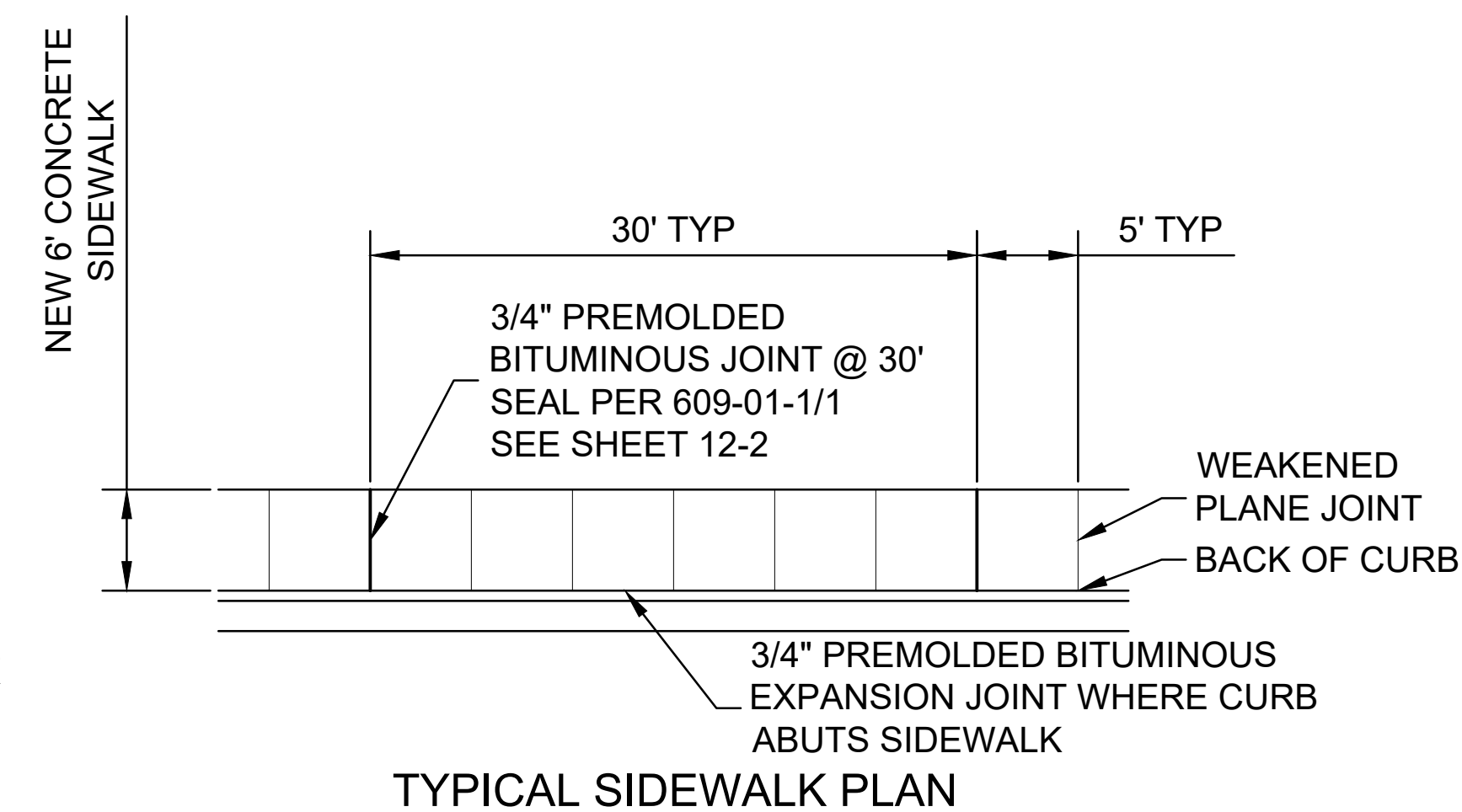
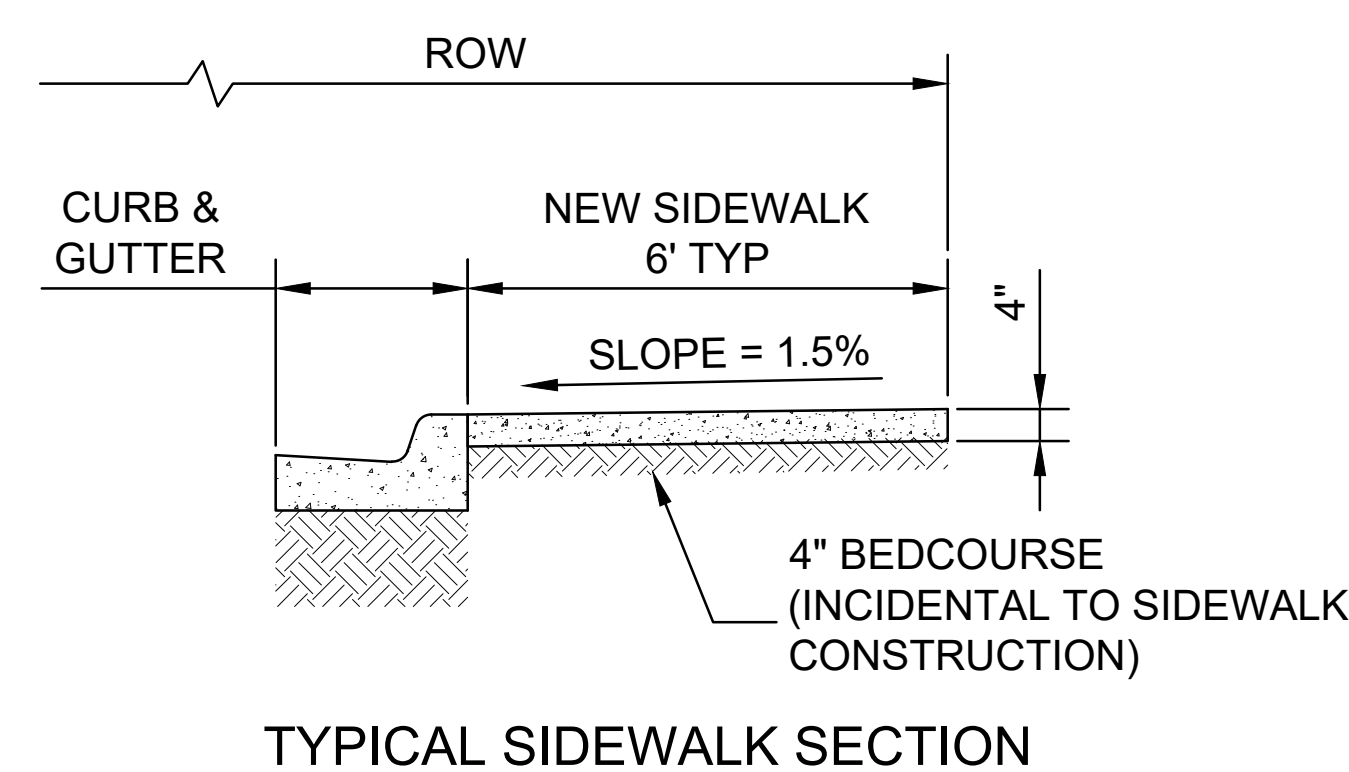
NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO GRATE FABRICATION

MODIFIED TYPE I DROP INLET



- NOTES:
- POUR FILLETS MONOLITHICALLY
 - PROVIDE A REINFORCING CONTINUATION BETWEEN FILLETS AND VALLEY GUTTERS WITH A 30" REBAR LAP BETWEEN FILLETS AND VALLEY GUTTERS BEING CAST WITHIN 30 CALENDAR DAYS.

FILLET CURB RETURN



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NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE
CIP# 853C

AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
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CONSTRUCTION

TYPICAL DETAILS

DRAFT

609412 - VERTICAL CONCRETE CURB AND GUTTER 6" X 12" SCHEDULE				
LOCATION	START STATION	END STATION		LENGTH (LF)
AGUA FRIA STREET - MEDIAN	2+32.34	6+89.30		901.08
AGUA FRIA STREET - MEDIAN	7+74.87	12+42.79		931.99
			TOTAL	1833.07
			USE	1925

609418 - VERTICAL CONCRETE CURB AND GUTTER 6" X 18" SCHEDULE				
LOCATION	START STATION	END STATION		LENGTH (LF)
AGUA FRIA STREET - RIGHT SIDE	0+00.00	6+84.31		677.28
ARUA FRIA STREET - LEFT SIDE	0+09.03	6+73.20		666.53
AGUA FRIA STREET - RIGHT SIDE	7+91.98	13+17.78		527.98
AGUA FRIA STREET - LEFT SIDE	7+86.56	14+57.37		673.12
			TOTAL	2544.91
			USE	2672

609424 - VERTICAL CONCRETE CURB AND GUTTER 6" X 24" SCHEDULE				
LOCATION	START STATION	END STATION		LENGTH (LF)
S. MEADOWS ROAD - RIGHT SIDE	0+23.72	2+48.54		238.85
S. MEADOWS ROAD - MEDIAN	-0+16.41	1+59.67		280.16
S. MEADOWS ROAD - MEDIAN NOSE	-0+16.41	0+81.35		6.10
S. MEADOWS ROAD - SOUTH INTERSECTION				77.38
			TOTAL	602.49
			USE	633

609999 - CONCRETE CURB RETURNS [COMPLETE; INCLUDES, CONCRETE, STEEL, SUBGRADE PREP, AND TIE IN TO EXISTING CURB]	
LOCATION	S.Y.
NORTH WEST CORNER OF AGUA FRIA STREET AND SOUTH MEADOWS ROAD	18.27
NORTH EAST CORNER OF AGUA FRIA STREET AND SOUTH MEADOWS ROAD	27.95
TOTAL	46.22
USE	49

609649 - CONCRETE VALLEY GUTTER 6" X 60'	
LOCATION	L.F.
AGUA FRIA STREET	61.10
TOTAL	61.10
USE	64

SURFACING SCHEDULE										
	207000 SUBGRADE PREPARATION S.Y.	303160 BASECOURSE 6" S.Y.	423270 HMA SP-IV					608106 DRIVEPAD 6" S.Y.	408100 PRIME COAT TON	407100 TACK COAT TON
			2" S.Y.	2.5" S.Y.	3" S.Y.	4" S.Y.	4.5" S.Y.			
FULL DEPTH REPLACEMENT OR NEW CONSTRUCTION AGUA FRIA WEST OF INTERSECTION	1,565.34	1,565.34	-	-	-	1,565.34	-	-	2.74	0.53
FULL DEPTH REPLACEMENT OR NEW CONSTRUCTION AGUA FRIA EAST OF INTERSECTION	1,412.90	1,412.90	-	-	-	1,412.90	-	-	2.48	0.48
FULL DEPTH REPLACEMENT OR NEW CONSTRUCTION SOUTH MEADOWS NORTH OF INTERSECTION	504.18	504.18	-	-	-	504.18	-	-	0.88	0.17
FULL DEPTH REPLACEMENT OR NEW CONSTRUCTION AT INTERSECTION	433.97	433.97	-	-	-	-	433.97	-	-	0.15
MILL AND INLAY AGUA FRIA WEST OF INTERSECTION	-	-	1,322.79	-	-	-	-	-	-	0.45
MILL AND INLAY AGUA FRIA EAST OF INTERSECTION	-	-	1,242.88	-	-	-	-	-	-	0.42
MILL AND INLAY SOUTH MEADOWS NORTH OF INTERSECTION	-	-	-	-	-	-	-	-	-	-
MILL AND INLAY AT INTERSECTION	-	-	-	358.92	-	-	-	-	-	0.12
DRIVEWAY WEST TYPE 2C	19.61	19.61	-	-	-	-	-	54.67	-	-
DRIVEWAY 1 TYPE 2C	23.88	23.88	-	-	-	-	-	65.12	-	-
DRIVEWAY 2 TYPE 2B	13.12	13.12	-	-	13.12	-	-	26.67	0.02	-
DRIVEWAY 3 TYPE 2C	6.93	6.93	-	-	6.93	-	-	36.89	0.01	-
DRIVEWAY 4 TYPE 2C	22.18	22.18	-	-	-	-	-	43.54	-	-
DRIVEWAY 5 TYPE 2C	21.67	21.67	-	-	21.67	-	-	62.59	0.04	-
DRIVEWAY 6 TYPE 2C	11.77	11.77	-	-	11.77	-	-	44.11	0.02	-
DRIVEWAY 7 TYPE 2B	5.76	5.76	-	-	-	-	-	20.00	-	-
DRIVEWAY 8 TYPE 2C	8.94	8.94	-	-	-	-	-	52.98	-	-
DRIVEWAY 9 TYPE 2C	36.94	36.94	-	-	-	-	-	52.83	-	-
DRIVEWAY EAST TYPE 2C	6.11	6.11	-	-	-	-	-	20.00	-	-
TOTALS	4,093.30	4,093.30	2,565.67	358.92	53.49	3,482.42	433.97	479.40	6.19	2.32
USE	4,298	4,298	-	-	-	-	-	503	6.50	2.50

ESTIMATED SURFACING FACTORS *						
ITEM	SPEC 423 PG 64-22	SPEC 407 GALS. / S.Y.	SPEC 408 GALS. / S.Y.	GALS. PER TON	UNIT WT. LBS. / C.Y.	HYDRATED LIME **
BASE COURSE	-	-	-	-	3,875	-
HMA SP-IV COMPLETE	6.0%	-	-	-	4,086	1.5%
ASPHALT FOR TACK COAT	-	0.08	-	235.66	-	-
ASPHALT FOR PRIME COAT	-	-	0.45	256.86	-	-

* THE AMOUNTS OF ASPHALTIC MATERIAL SHOWN ON THE ESTIMATED SURFACING FACTORS ARE FOR ESTIMATING PURPOSES ONLY. THE CORRECT AMOUNTS WILL BE DETERMINED BASED ON THE ASPHALT MIX DESIGN PROVIDED BY THE CONTRACTOR.

** BY WEIGHT OF TOTAL MIX. NON-PAYABLE ITEM. QUANTITY SHOWN FOR CONTRACTOR'S INFORMATION ONLY.

ASPHALT QUANTITIES CONSOLIDATION		
423270 HMA SP-IV	S.Y.	SY-IN
2"	2,565.67	5,131.34
2.5"	358.92	897.30
3"	53.49	160.47
4"	3,482.42	13,929.68
4.5"	433.97	1,952.87
TOTAL (SY-IN)		22,071.66
		CY
		613.10
		TON
		1,252.57
423270 HMA SP-IV USE (TON)		1,315

NO.	DESCRIPTION	DATE	BY
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C

AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
NOT FOR
CONSTRUCTION

MISCELLANEOUS QUANTITIES

SCALE: N.T.S. SHEET 2-4

DRAFT

607199 - REMOVE AND REBUILD FENCE (MATCH EXISTING)	
LOCATION	L.F.
AGUA FRIA STREET	1330.37
TOTAL	1330.37
USE	1397

608004 - CONCRETE SIDEWALK - 4" THICK					
LOCATION	START STATION	TO	END STATION		AREA (SY)
AGUA FRIA STREET - RIGHT SIDE	-0+49.96		-0+36.13		8.25
AGUA FRIA STREET - RIGHT SIDE	-7+75.00		3+59.60		243.63
AGUA FRIA STREET - RIGHT SIDE	3+85.60		5+59.54		116.23
AGUA FRIA STREET - RIGHT SIDE	5+91.70		7+10.48		93.46
AGUA FRIA STREET - RIGHT SIDE	7+58.22		12+85.05		365.62
AGUA FRIA STREET - RIGHT SIDE	13+18.96		14+52.18		87.95
AGUA FRIA STREET - LEFT SIDE	-0+19.23		1+43.68		108.74
AGUA FRIA STREET - LEFT SIDE	1+69.68		2+69.43		66.69
AGUA FRIA STREET - LEFT SIDE	3+13.06		6+90.03		254.00
AGUA FRIA STREET - LEFT SIDE	7+61.58		8+83.52		100.71
AGUA FRIA STREET - LEFT SIDE	9+24.42		12+65.07		226.98
AGUA FRIA STREET - LEFT SIDE	12+97.55		13+80.53		55.45
AGUA FRIA STREET - LEFT SIDE	14+06.52		14+59.37		33.11
SOUTH MEADOWS ROAD - RIGHT SIDE	0+23.69		0+36.58		7.80
SOUTH MEADOWS ROAD - RIGHT SIDE	0+61.98		2+65.09		147.03
ADDITIONAL WEST TO COTTONWOOD					650.00
				TOTAL	2,565.65
				USE	2,702.00

608404 - CONCRETE MEDIAN PAVEMENT (COLORED AND PATTERNED)	
LOCATION	AREA (SY)
AGUA FRIA STREET	350.12
TOTAL	350.12
USE	368

MANHOLE AND STRUCTURE QUANTITIES												
ROAD	STATION	STRUCTURE	570018 - 18" CULVERT PIPE		662400 - ADJUST EXISTING MANHOLE		662300 - TIE TO EXISTING		6623404 - DROP INLET TYPE I		662500 - MANHOLE FRAME AND COVER	
			LF	EA	EA	EA	EA	EA				
AGUA FRIA STREET	NA, SEE SHEET 10-1	STORM SEWER LINE 1	252.96				1		3			
AGUA FRIA STREET	NA, SEE SHEET 10-2	STORM SEWER LINE 2	35.02				1		1			1
AGUA FRIA STREET	0+31.26	SANITARY SEWER MANHOLE										1
AGUA FRIA STREET	6+99.22	SANITARY SEWER MANHOLE				1						
AGUA FRIA STREET	7+06.71	STORM SEWER MANHOLE				1						
AGUA FRIA STREET	7+21.49	STORM SEWER MANHOLE				1						
AGUA FRIA STREET	11+25.88	SANITARY SEWER MANHOLE										1
		TOTALS	287.98	3	2	4	3					
		USE	312	3	2	4	3					

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
 CIP# 853C

AGUA FRIA STREET AND
 SOUTH MEADOWS ROAD
 INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
 NOT FOR
 CONSTRUCTION

MISCELLANEOUS QUANTITIES
 (CONT'D)

SCALE: N.T.S. SHEET 2-5

DRAFT

SCHEDULE OF BEST MANAGEMENT PRACTICES			
DESCRIPTION	STATION	OFFSET	603251 DROP INLET PROTECTION (EA)
AGUA FRIA STREET	5+03.03	31.23' L	1
AGUA FRIA STREET	5+03.04	25.44' R	1
AGUA FRIA STREET	6+60.86	31.23' L	1
AGUA FRIA STREET	7+84.99	9.40' L	1
AGUA FRIA STREET	7+85.72	16.84' R	1
AGUA FRIA STREET	7+98.94	41.23' L	1
PROJECT TOTAL			6
USE			6

SCHEDULE OF BEST MANAGEMENT PRACTICES				
DESCRIPTION	STATION	TO	STATION	603261 MULCH SOCKS (L.F.)
AGUA FRIA STREET - LEFT	-2+27.08	TO	-0+84.58	142.50
AGUA FRIA STREET - RIGHT	-0+49.95	TO	-0+36.37	13.58
AGUA FRIA STREET - LEFT	-0+58.58	TO	1+53.22	211.80
AGUA FRIA STREET - RIGHT	0+07.63	TO	3+66.67	359.04
AGUA FRIA STREET - LEFT	1+62.10	TO	2+80.10	118.00
AGUA FRIA STREET - LEFT	3+03.21	TO	6+83.93	380.72
AGUA FRIA STREET - RIGHT	3+77.61	TO	5+64.69	187.08
AGUA FRIA STREET - RIGHT	5+84.82	TO	7+05.31	120.49
AGUA FRIA STREET - RIGHT	7+63.78	TO	12+97.68	533.90
AGUA FRIA STREET - LEFT	7+63.42	TO	8+81.14	117.72
AGUA FRIA STREET - LEFT	9+20.19	TO	12+70.56	350.37
AGUA FRIA STREET - LEFT	12+92.00	TO	13+86.11	94.11
AGUA FRIA STREET - RIGHT	13+04.08	TO	13+61.77	57.69
AGUA FRIA STREET - LEFT	13+97.60	TO	14+75.33	77.73
AGUA FRIA STREET - RIGHT	13+89.76	TO	14+52.49	82.73
SOUTH MEADOWS ROAD - RIGHT	0+23.48	TO	0+32.95	9.47
SOUTH MEADOWS ROAD - RIGHT	0+57.88	TO	2+39.97	182.09
PROJECT TOTAL				3,039.02
USE				3,191

SITE DESCRIPTIONS & NOI INPUTS	
NATURE OF ACTIVITY	.
GENERAL LOCATION AND SITE MAP	SEE VICINITY MAP AND TESCM PLAN
DISTURBED AND UNDISTURBED AREA	REFER TO TESCM PLAN
STRUCTURAL & NON-STRUCTURAL CONTROLS	REFER TO TESCM PLAN
LOCATIONS WHERE STABILIZATION WILL OCCUR	REFER TO TESCM PLAN
PERMANENT EROSION CONTROL MEASURES	REFER TO PLAN AND PROFILE SHEETS AND STRUCTURE SECTIONS
TOTAL SITE AREA	.
RECEIVING WATER	SANTA FE RIVER
TOTAL DISTURBED AREA	1.3489 ACRES
LATITUDE	35d 38' 49" N
LONGITUDE	106d 02' 25" W
IS DISCHARGE CONSISTENT WITH APPROVED TMDL	YES
ESTIMATE OF LIKELIHOOD OF DISCHARGE	UNLIKELY
ENDANGERED SPECIES OR CRITICAL HABITAT	NO
PART 1.3.C.6.C OF THE PERMIT (A, B, C, D, E, or F)	E
DRAINAGE PARAMETERS	
DRAINAGE PATTERNS	REFER TO TESCM PLAN
APPROXIMATE SLOPES AFTER MAJOR GRADING	REFER TO PLAN AND PROFILE, CROSS SECTIONS, & GRADING PLANS
RAINFALL 2-YEAR, 24-HOUR, inch	.
2-YEAR, 1-HOUR, inch	.
INTENSITY, in/hr FOR Tc = 10 minutes	.
HYDROLOGICAL SOIL GROUP	.
CURVE NUMBER(CN), UNDISTURBED AREA	.
CURVE NUMBER(CN) DISTURBED AREA	.
RUNOFF COEFFICIENT, PRIOR TO CONSTRUCTION	.
RUNOFF COEFFICIENT, DURING CONSTRUCTION	.
RUNOFF COEFFICIENT, AFTER CONSTRUCTION	.

RUNOFF DISCHARGE & VOLUME CALCULATION

THE FOLLOWING PROCEDURES SHOULD BE USED TO CALCULATE THE RUNOFF DISCHARGE AND VOLUME TO DESIGN THE EROSION MEASURES :

DISCHARGE: $Q = CIA$ (ENGLISH) $Q = 0.0028CIA$ (METRIC)
 WHERE, Q = DISCHARGE, cfs (m³/s)
 C = RUNOFF COEFFICIENT
 I = RAINFALL INTENSITY, in/hr (mm/hr)
 A = AREA OF THE SITE, acres (hectares)

VOLUME: $V = QTc$
 WHERE, V = VOLUME, ft³ (m³)
 $Tc = (1/60) 0.0078 L^{0.77} S^{-0.385}$, minutes
 Assume $Tc = 10$ min. for basins within the project limits
 L = LENGTH OF WATERSHED, ft (m)
 S = SLOPE, ft/ft (m/m)

SOIL LOSS COMPUTATION										
Benchmark :	Preconst	Client :								
Alternative Treatment :	none	Location :								
Rainfall Factor (RUSLE) :	30	County :	SANTA FE							
Soil Name & Tex :	ARENTS-ORTHENTS COMPLEX	Date :								
Soil Loss Tolerance (T) :	5	Field Office :								
Wind Climate Factor :		Planner :								
RUSLE C Factor (field 1) :	0.1	Crop Rotation :								
(field 2) :		Mgt. Condition :								
(field 3) :										
(field 4) :										
(field 5) :										
(field 6) :										
Type of Land :	Disturbed Land									
WIND EROSION (Mgt. Period Method)					Note: Attach WEQ run					
(Wind erosion field number and size must be filled out to use in other forms of erosion.)										
Field (num)	Size (ac)	Climatic C (factor)	Wind I (factor)	Actual Loss (t/ac/yr)	Ton Ero by field (t/yr)					
1	0.13	0			0					
WATER EROSION (RUSLE)-sheet and rill erosion $RxKxLSxPxP=A$										
Field (num)	Size (ac)	Rainfall R (factor)	Soil K (factor)	Slope (%)	Length (ft)	Length-Slope LS (factor)	Cover-Mgt C (factor)	Support Practices P (factor)	Soil Loss A (t/ac/yr)	Tons by Field (t/yr)
1	0.13	30	0.2	38.00	105	7.34	0.1	1	4.40	0.57
EPHEMERAL GULLY EROSION (voided area method for the group of fields)*										
Rill formula : (top width + bottom width)/2 x Depth = Tons of Soil Loss from each Rill on per Ac basis										
Rill Number :	1	2	3	4	5	6	7	8	measured	
Top width (in) :									measured	
Bottom width (in) :									measured	
Sum (in) :									measured	
Average Width (in) :									measured	
Average Depth (in) :									measured	
WxD (in ² -tons loss) :									measured	
Total Loss (tons/ac) :	0	Yrs to Create :		Tt Loss per Year (t/ac/yr) :		0.0				
*Based on a 12.5 foot long strip. No. of Ac w/Gully Ero: Total Tons of Soil Loss : 0.0										

Pre-Construction

SOIL LOSS COMPUTATION										
Benchmark :	Postconst	Client :	NMDOT							
Alternative Treatment :	none	Location :	AguaFria/S.Meadows							
Rainfall Factor (RUSLE) :	30	County :	SANTA FE							
Soil Name & Tex :	ARENTS-ORTHENTS COMPLEX	Date :	xxxxxxx							
Soil Loss Tolerance (T) :	5	Field Office :								
Wind Climate Factor :		Planner :								
RUSLE C Factor (field 1) :	0.1	Crop Rotation :								
(field 2) :		Mgt. Condition :								
(field 3) :										
(field 4) :										
(field 5) :										
(field 6) :										
Type of Land :	Disturbed Land									
WIND EROSION (Mgt. Period Method)					Note: Attach WEQ run					
(Wind erosion field number and size must be filled out to use in other forms of erosion.)										
Field (num)	Size (ac)	Climatic C (factor)	Wind I (factor)	Actual Loss (t/ac/yr)	Ton Ero by field (t/yr)					
1	0.13	0			0					
WATER EROSION (RUSLE)-sheet and rill erosion $RxKxLSxPxP=A$										
Field (num)	Size (ac)	Rainfall R (factor)	Soil K (factor)	Slope (%)	Length (ft)	Length-Slope LS (factor)	Cover-Mgt C (factor)	Support Practices P (factor)	Soil Loss A (t/ac/yr)	Tons by Field (t/yr)
1	0.13	30	0.2	25.00	125	5.4	0.1	0.6	1.94	0.25
EPHEMERAL GULLY EROSION (voided area method for the group of fields)*										
Rill formula : (top width + bottom width)/2 x Depth = Tons of Soil Loss from each Rill on per Ac basis										
Rill Number :	1	2	3	4	5	6	7	8	measured	
Top width (in) :									measured	
Bottom width (in) :									measured	
Sum (in) :									measured	
Average Width (in) :									measured	
Average Depth (in) :									measured	
WxD (in ² -tons loss) :									measured	
Total Loss (tons/ac) :	0	Yrs to Create :		Tt Loss per Year (t/ac/yr) :		0.0				
*Based on a 12.5 foot long strip. No. of Ac w/Gully Ero: Total Tons of Soil Loss : 0.0										

Post-Construction

REVISED UNIVERSAL SOIL LOSS EQUATION (RUSLE)

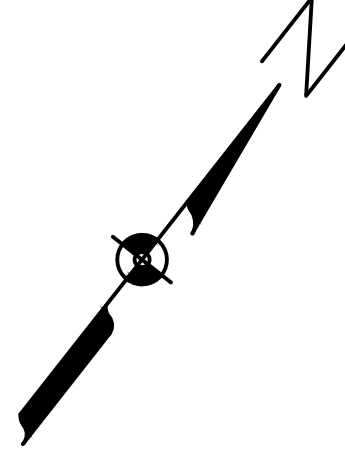
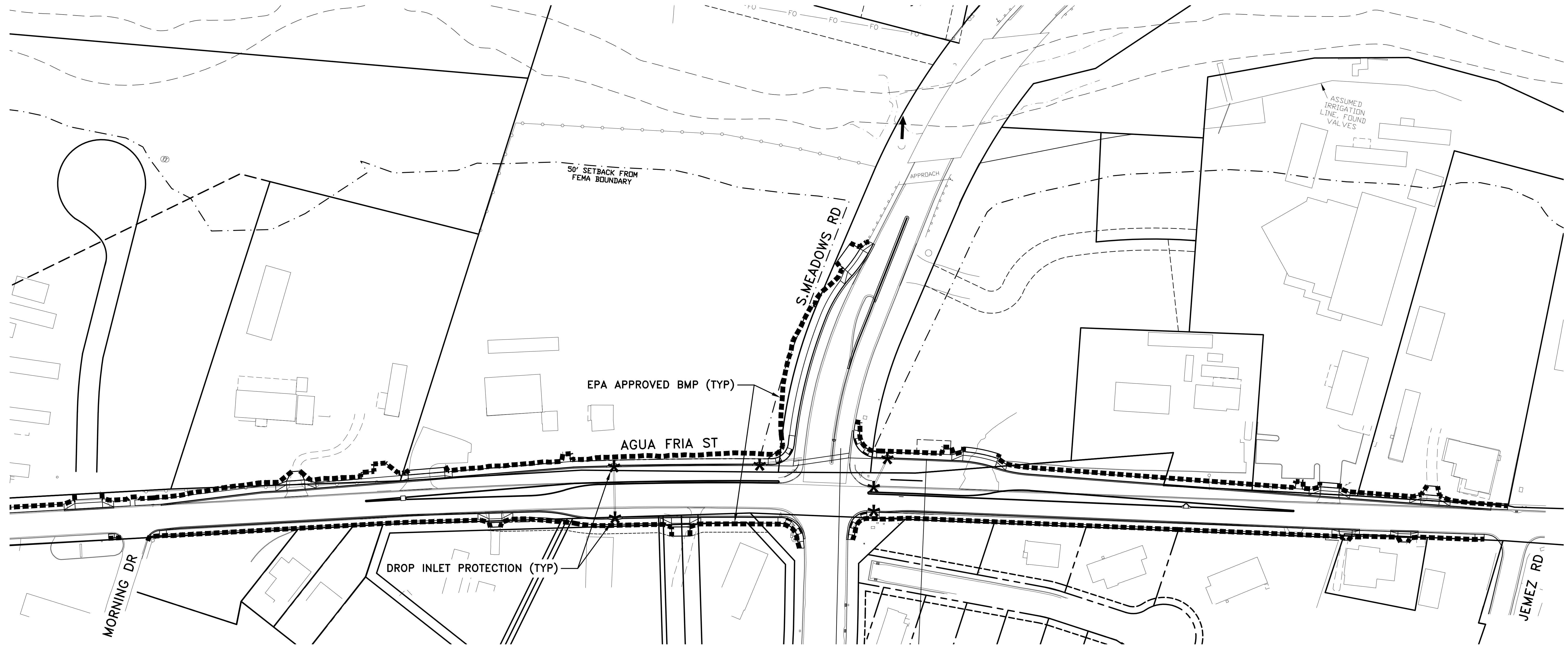
GENERAL NOTES:

- THE 2012 REVISION 2 EDITION OF NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) HANDBOOK AND SECTION 603 - TEMPORARY EROSION & SEDIMENT CONTROL OF THE 2019 EDITION OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION - SHALL BE USED AS MINIMUM REQUIREMENTS TO DEVELOP OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- THE NPDES PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOTICE OF INTENT (NOI), IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED, SHALL BE POSTED AT THE PROJECT SITE OR THE FIELD OFFICE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL POST A VISIBLE SIGN WITHIN THE PROJECT LIMITS, DESIGNATING THE LOCATION OF THE SWPPP.
- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ALL MAINTENANCE AND INSPECTION REPORTS SHALL BE SIGNED BY A QUALIFIED INSPECTOR ASSIGNED BY CONTRACTOR. THE SWPPP AND THE INSPECTION REPORTS SHALL BE AVAILABLE TO EPA REPRESENTATIVE AT ALL TIMES DURING CONSTRUCTION.
- THE SWPPP PREPARED BY THE CONTRACTOR MUST BE APPROVED BY NMDOT AND THE PERMIT OBTAINED PRIOR TO CONSTRUCTION. COORDINATE SWPPP WITH NMDOT DRAINAGE SECTION (505-827-5323).
- ALL DRAINAGE INFORMATION NEEDED TO COMPLETE THE NOTICE OF INTENT (NOI) ARE PROVIDED IN THIS PLAN.
- BMPS SHOWN ON TESCM PLAN ARE DETERMINED USING THE EQUATIONS SHOWN ON THIS SHEET AND OTHER HYDROLOGIC MODELS AS SPECIFIED IN THE DEPARTMENT'S DRAINAGE MANUALS LATEST EDITION. BMPS CONTROL SEDIMENT SO THAT NO ADDITIONAL SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES DISCHARGE TO WATERWAYS.

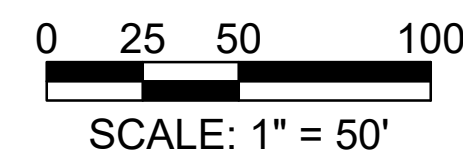
NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)			

CITY OF SANTA FE
 CIP# 853C
 AGUA FRIA STREET AND
 SOUTH MEADOWS ROAD
 INTERSECTION IMPROVEMENTS
 100% PS&E SUBMITTAL
 NOT FOR
 CONSTRUCTION
 SCHEDULE OF BEST
 MANAGEMENT PRACTICES

DRAFT



TESCM PLAN
SCALE: 1" = 50'



LEGEND

- FLOW DIRECTION
- DISCHARGE POINT
- EPA APPROVED BMP
- CHECK DAM
- SLOPE LIMITS
- RIGHT-OF-WAY
- DROP INLET PROTECTION

NOTES:

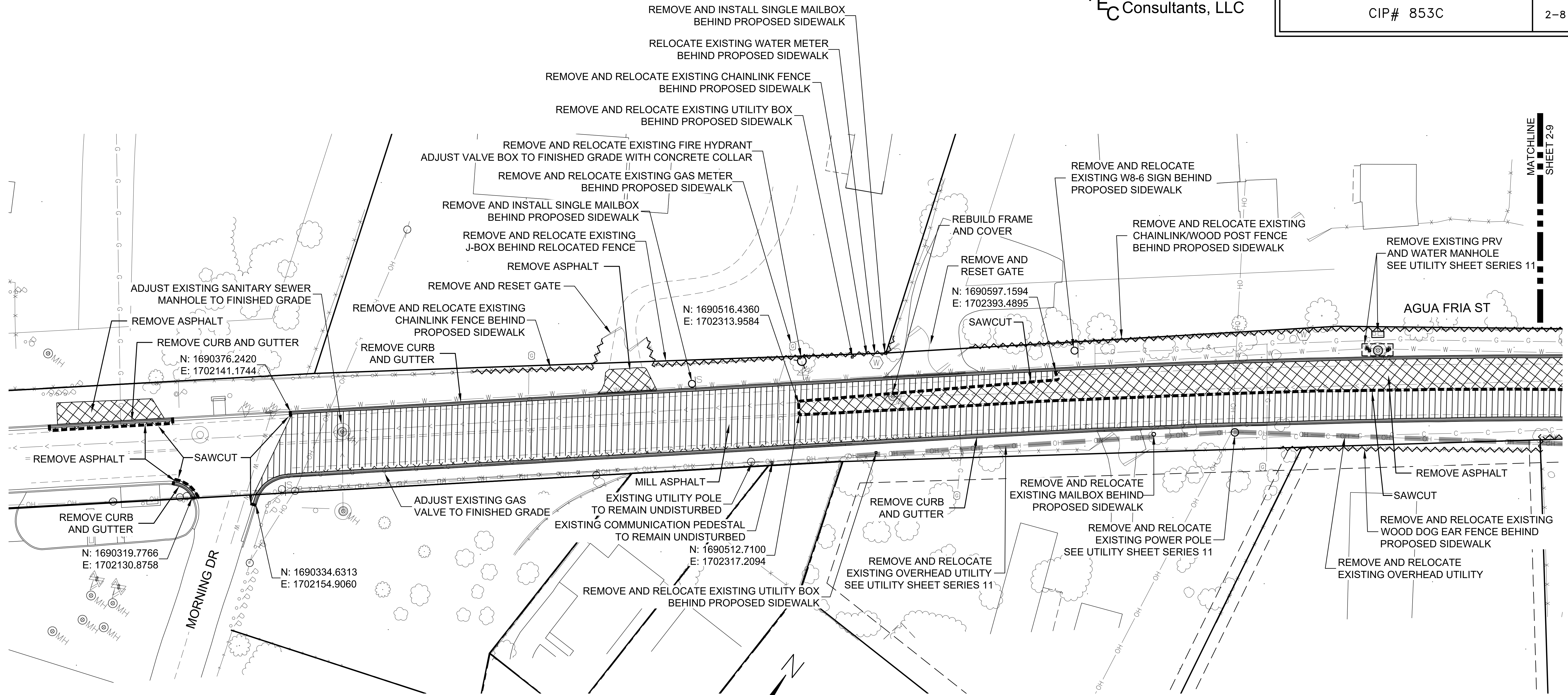
1. THIS PLAN SHOWS TEMPORARY BMPs IN THEIR LOCATIONS AFTER ALL FINAL GRADING IS COMPLETE AND BEFORE RESEEDING. ANY PLACEMENT OF TEMPORARY EROSION CONTROL BMPs DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FACILITATE CONSTRUCTION OPERATIONS AND PHASING AND TO ELIMINATE SEDIMENT FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE "CONSTRUCTION GENERAL PERMIT". BMP QUANTITIES ARE BASED ON THESE TESCM PLAN SHEETS.
2. SEE SHEETS 12-7 AND 12-8 FOR EPA APPROVED BMP AND DROP INLET PROTECTION DETAILS.

3			
2			
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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

CITY OF SANTA FE
CIP# 853C
AGUA FRIA STREET AND
SOUTH MEADOWS ROAD
INTERSECTION IMPROVEMENTS
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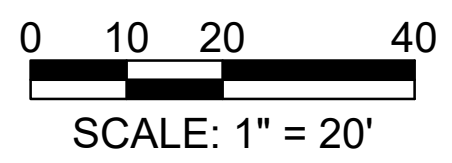
TESCM PLAN

DRAFT



MATCHLINE
SHEET 2-9

DEMOLITION PLAN
SCALE: 1" = 20'



NOTES:

- MILL VS. FULL DEPTH REMOVAL BASED UPON RECOMENDATIONS IN THE REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212 AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30, 2020
- ANY REMOVALS OF EQUIPMENT, MATERIALS, METERS, PEDESTALS, SERVICES, OR APPURTENANCES NOT LISTED ON THESE PLANS THAT ARE REQUIRED TO COMPLETE THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
- SEE UTILITY PLAN FOR ADDITIONAL REMOVALS AND RELOCATIONS.
- REPLACE ALL DISTURBED IRRIGATION AND LANDSCAPING WITH OWNERS COORDINATION.
- ANY UTILITY SERVICE NOT CURRENTLY CONNECTED SHALL BE EXTENDED TO RIGHT OF WAY.

LEGEND

- SAWCUT
- ▨ REMOVE ASPHALT
- ▤ 2" MILL ASPHALT
- REMOVE CONCRETE
- ~ REMOVE AND RELOCATE FENCE
- REMOVE AND RELOCATE OVERHEAD UTILITY COORDINATE WITH PNM

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
CIP# 853C

AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
NOT FOR CONSTRUCTION

DEMOLITION PLAN

DRAFT

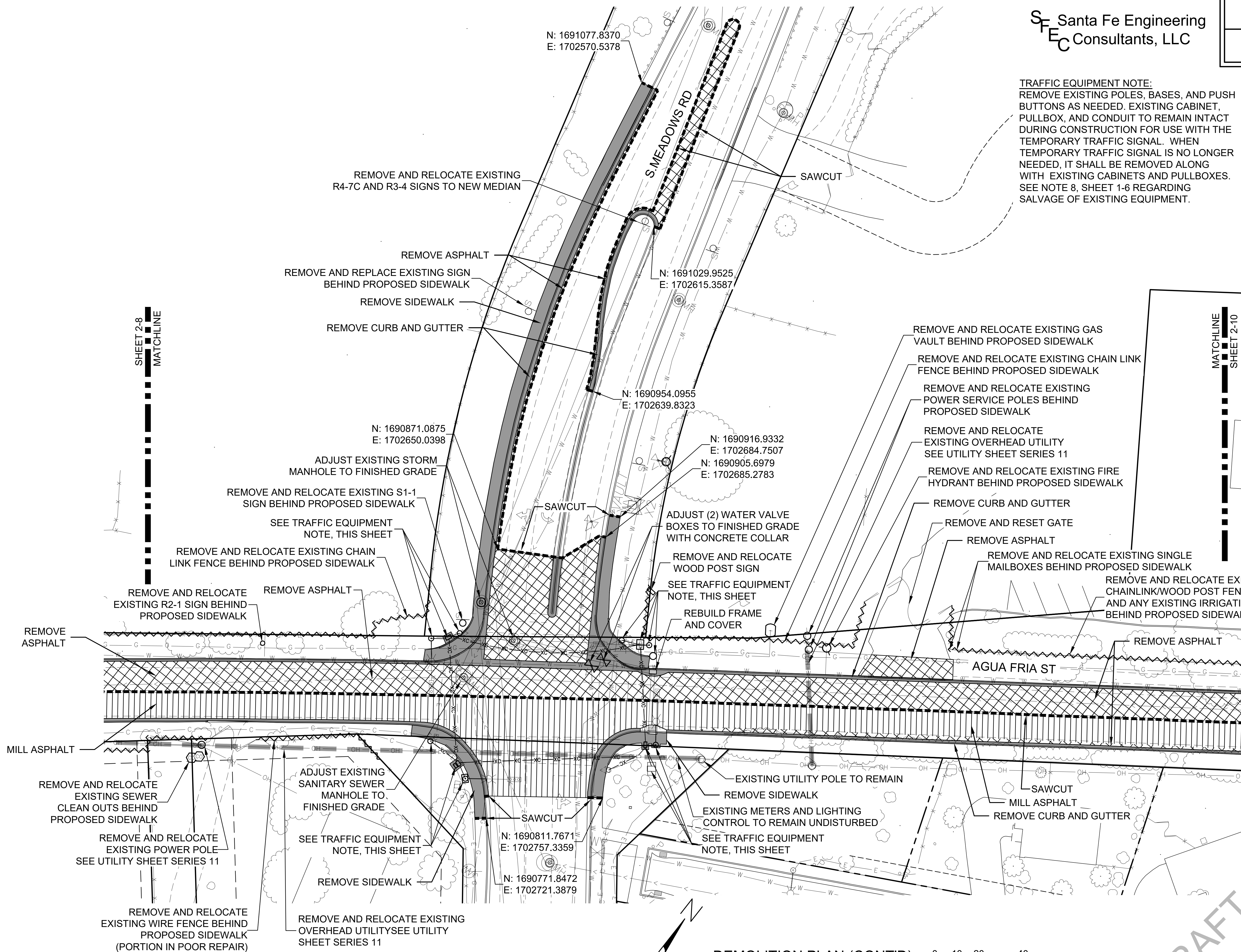
TRAFFIC EQUIPMENT NOTE:
REMOVE EXISTING POLES, BASES, AND PUSH BUTTONS AS NEEDED. EXISTING CABINET, PULLBOX, AND CONDUIT TO REMAIN INTACT DURING CONSTRUCTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL. WHEN TEMPORARY TRAFFIC SIGNAL IS NO LONGER NEEDED, IT SHALL BE REMOVED ALONG WITH EXISTING CABINETS AND PULLBOXES. SEE NOTE 8, SHEET 1-6 REGARDING SALVAGE OF EXISTING EQUIPMENT.

NOTES:

- MILL VS. FULL DEPTH REMOVAL BASED UPON RECOMENDATIONS IN THE REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212 AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30, 2020
- ANY REMOVALS OF EQUIPMENT, MATERIALS, METERS, PEDESTALS, SERVICES, OR APPURTENANCES NOT LISTED ON THESE PLANS THAT ARE REQUIRED TO COMPLETE THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
- SEE UTILITY PLAN FOR ADDITIONAL REMOVALS AND RELOCATIONS.
- REPLACE ALL DISTURBED IRRIGATION AND LANDSCAPING WITH OWNERS COORDINATION.
- ANY UTILITY SERVICE NOT CURRENTLY CONNECTED SHALL BE EXTENDED TO RIGHT OF WAY.

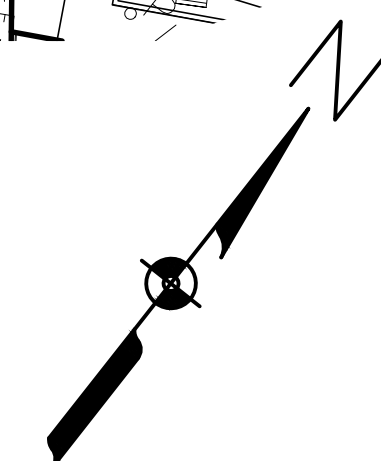
LEGEND

- SAWCUT
- REMOVE ASPHALT
- 2" MILL ASPHALT
- REMOVE CONCRETE
- REMOVE AND RELOCATE FENCE
- REMOVE AND RELOCATE OVERHEAD UTILITY COORDINATE WITH PNM

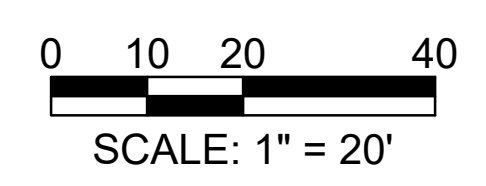


SHEET 2-8
MATCHLINE

MATCHLINE
SHEET 2-10



DEMOLITION PLAN (CONT'D)
SCALE: 1" = 20'



DRAFT

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

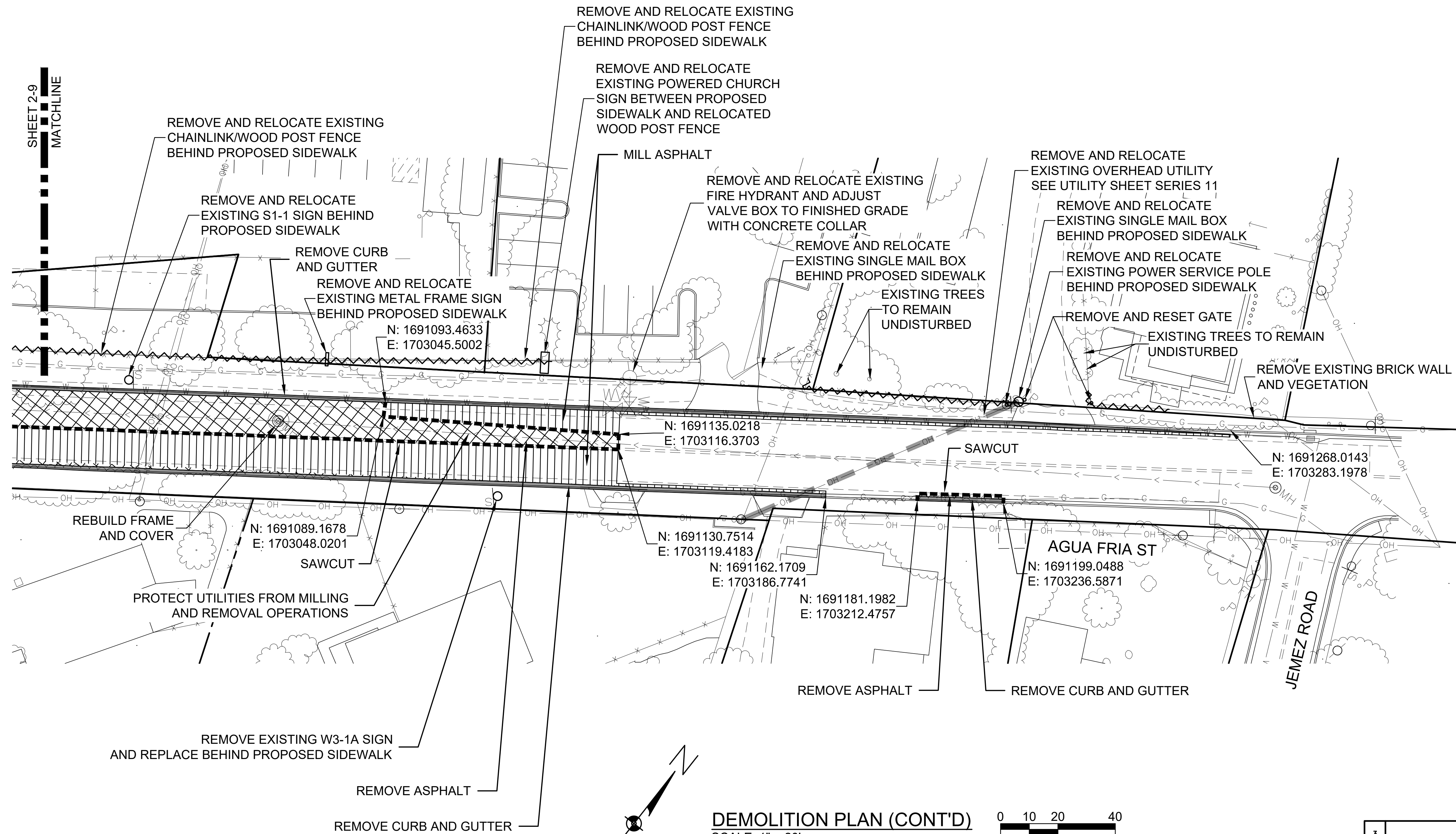
CITY OF SANTA FE
CIP# 853C

AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL
NOT FOR CONSTRUCTION

DEMOLITION PLAN

SCALE: 1" = 20' SHEET 2-9



LEGEND

-----	SAWCUT
XXXXXX	REMOVE ASPHALT
	2" MILL ASPHALT
■■■■■	REMOVE CONCRETE
~~~~~	REMOVE AND RELOCATE FENCE
— — — —	REMOVE AND RELOCATE OVERHEAD UTILITY COORDINATE WITH PNM

**DEMOLITION PLAN (CONT'D)**  
SCALE: 1" = 20'

0 10 20 40  
SCALE: 1" = 20'

- NOTES:**
- MILL VS. FULL DEPTH REMOVAL BASED UPON RECOMENDATIONS IN THE REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212 AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS SANTA FE COUNTY, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30, 2020
  - ANY REMOVALS OF EQUIPMENT, MATERIALS, METERS, PEDESTALS, SERVICES, OR APPURTENANCES NOT LISTED ON THESE PLANS THAT ARE REQUIRED TO COMPLETE THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
  - SEE UTILITY PLAN FOR ADDITIONAL REMOVALS AND RELOCATIONS.
  - REPLACE ALL DISTURBED IRRIGATION AND LANDSCAPING WITH OWNERS COORDINATION.
  - ANY UTILITY SERVICE NOT CURRENTLY CONNECTED SHALL BE EXTENDED TO RIGHT OF WAY.

3			
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1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

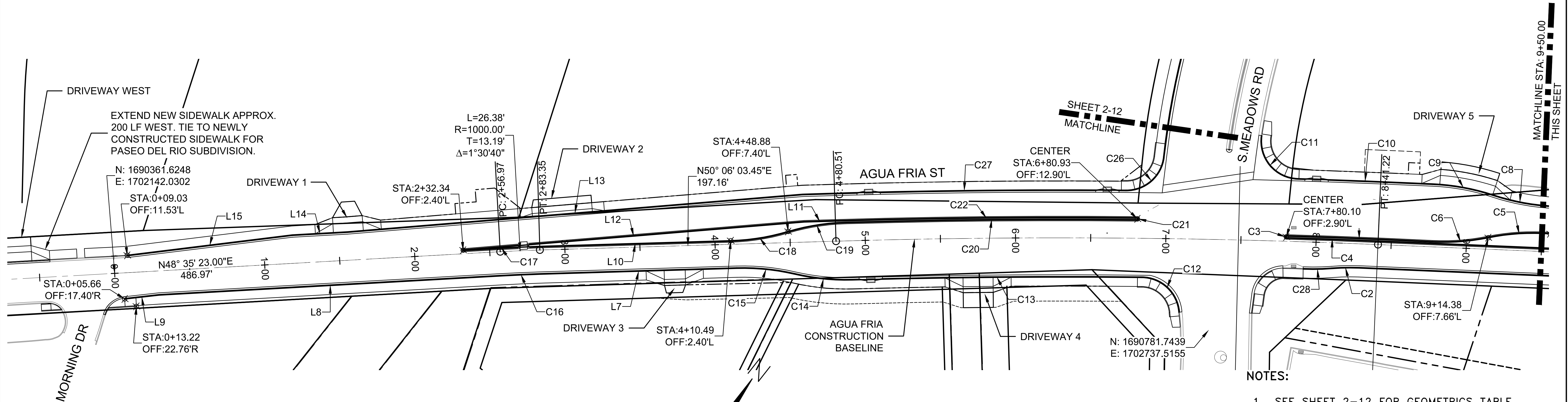
**CITY OF SANTA FE**  
CIP# 853C

AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR CONSTRUCTION

DEMOLITION PLAN

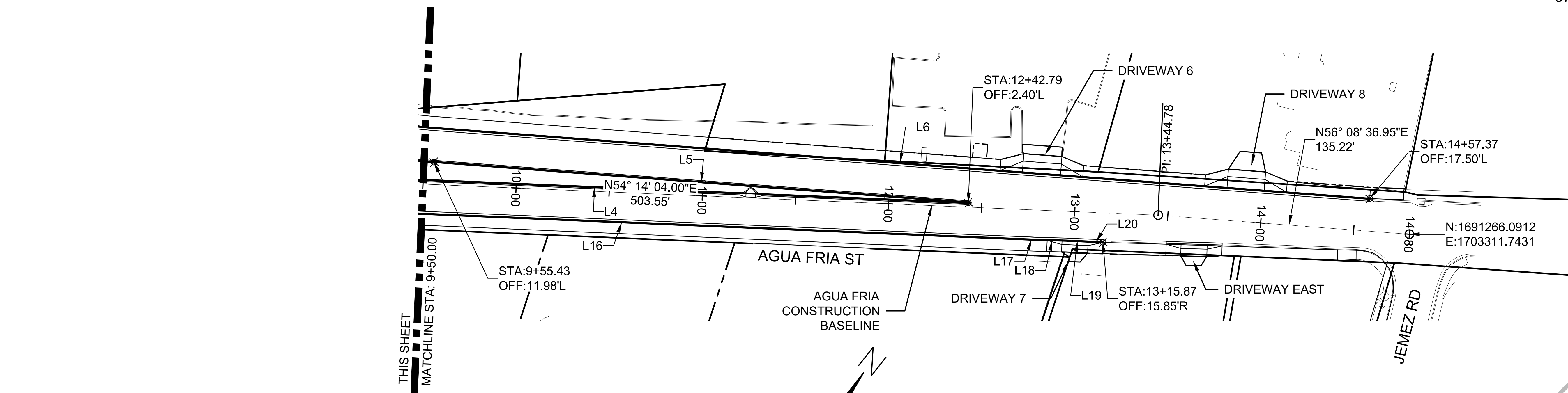
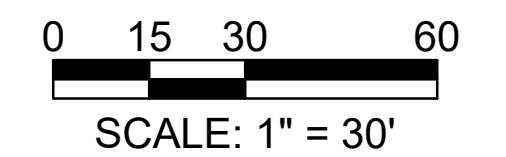




AGUA FRIA ST GEOMETRICS PLAN  
SCALE: 1" = 30'

NOTES:

1. SEE SHEET 2-12 FOR GEOMETRICS TABLE.
2. UNLESS OTHERWISE NOTED, ALL GEOMETRICS ARE TAKEN FROM BACK OF CURB.
3. AN AUTOCAD DRAWING FILE WILL BE PROVIDED TO THE CONTRACTOR FOR DETAILED GEOMETRICS AND GRADING.



AGUA FRIA ST GEOMETRICS PLAN (CONT'D)  
SCALE: 1" = 30'

DRAFT

NO.	DESCRIPTION	DATE	BY
3			
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CITY OF SANTA FE  
CIP# 853C

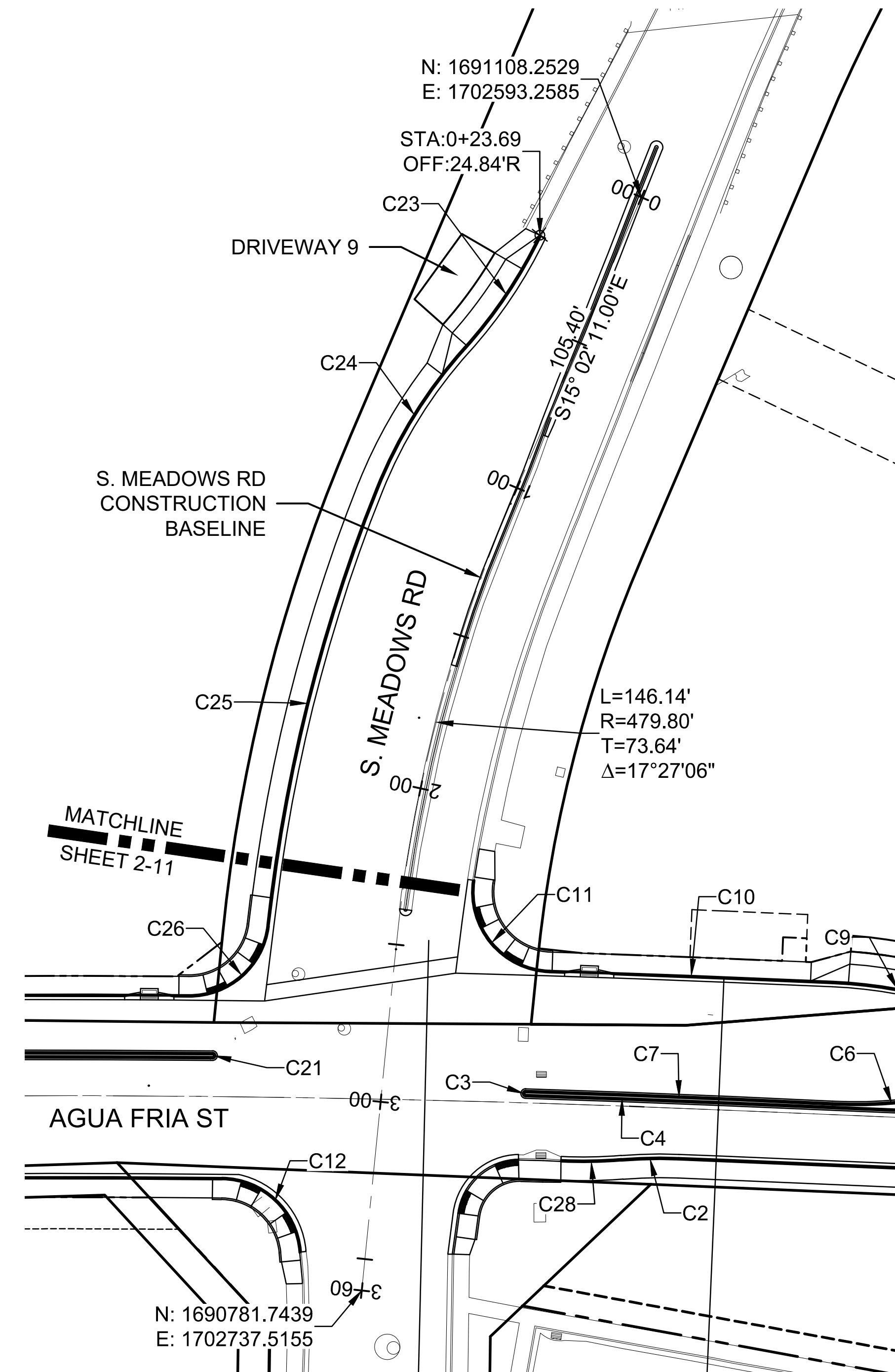
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

GEOMETRICS PLAN

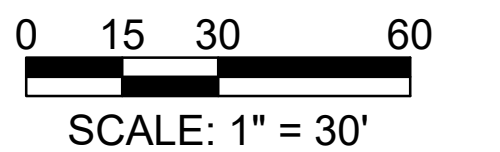
GEOMETRICS DATA				
Line #/Curve #	Length	Bearing/Delta	Radius	Tangent
C2	18.14	6.93	150.00	9.08
C3	1.57	180.00	0.50	INFINITY
C4	61.15	0.70	5002.40	30.57
C5	41.41	15.82	150.00	20.84
C6	37.49	14.32	150.00	18.84
C7	97.18	1.11	5003.40	48.59
C8	36.61	13.94	150.49	18.39
C9	41.35	15.85	149.50	20.81
C10	89.58	0.72	7158.94	44.79
C11	42.17	96.64	25.00	28.08
C12	37.24	85.32	25.01	23.04
C13	192.74	2.22	4973.90	96.38
C14	38.43	14.73	149.50	19.32
C15	38.99	14.84	150.50	19.60
C16	25.95	1.51	983.90	12.98
C17	51.07	1.57	1861.98	25.53
C18	38.83	14.83	150.00	19.52
C19	39.04	14.91	150.00	19.63
C20	193.94	2.22	5012.40	96.98
C21	1.57	180.00	0.50	INFINITY
C22	200.96	2.30	5013.40	100.49
C23	42.98	16.42	150.00	21.64
C24	53.02	20.25	150.00	26.79
C25	142.35	15.45	527.81	71.61
C26	36.87	84.48	25.01	22.71
C27	215.23	2.40	5132.69	107.63
C28	19.17	7.32	150.00	9.60
L4	401.56	S54° 14' 04.00"W		
L5	287.52	N56° 08' 36.95"E		
L6	505.59	N56° 08' 36.95"E		
L7	130.61	N50° 06' 03.45"E		
L8	228.34	N48° 35' 22.73"E		
L9	23.00	N45° 21' 51.81"E		
L10	127.14	S50° 06' 03.45"W		
L11	20.82	N50° 06' 03.45"E		
L12	227.71	N47° 04' 50.32"E		
L13	303.89	N47° 04' 50.32"E		
L14	36.73	N48° 35' 22.03"E		
L15	110.68	N44° 46' 17.10"E		

GEOMETRICS DATA				
Line #/Curve #	Length	Bearing/Delta	Radius	Tangent
L16	444.16	N54° 13' 57.46"E		
L17	7.70	N54° 08' 50.25"E		
L18	14.71	N53° 25' 08.76"E		
L19	12.35	N54° 17' 13.45"E		
L20	7.59	N53° 55' 32.82"E		



NOTES:

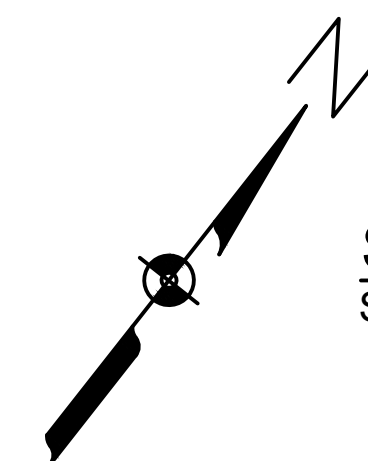
1. REFER TO GEOMETRICS TABLE, THIS SHEET.
2. UNLESS OTHERWISE NOTED, ALL GEOMETRICS ARE TAKEN FROM BACK OF CURB.
3. AN AUTOCAD DRAWING FILE WILL BE PROVIDED TO THE CONTRACTOR FOR DETAILED GEOMETRICS AND GRADING.



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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

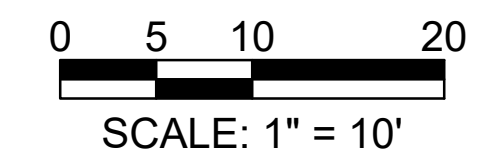
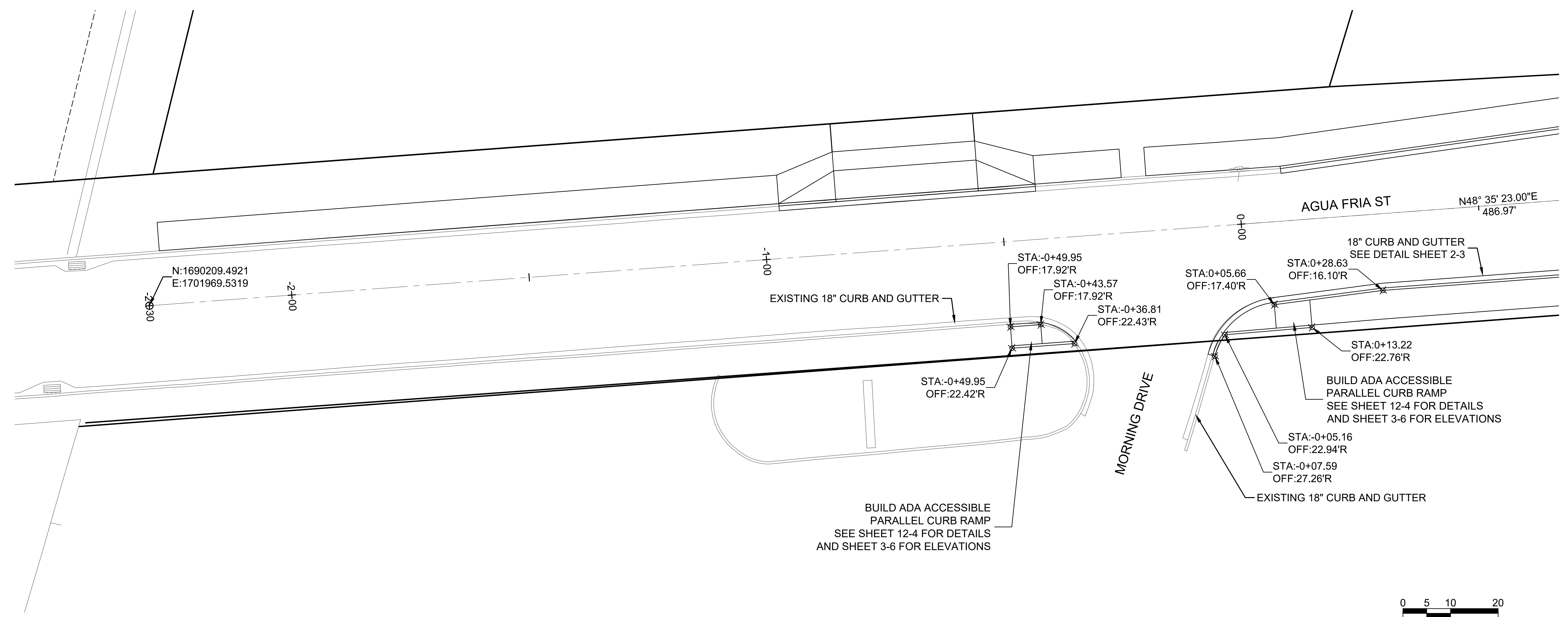
CITY OF SANTA FE  
 CIP# 853C  
 AGUA FRIA STREET AND  
 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS  
 100% PS&E SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

GEOMETRICS PLAN (CONT'D)



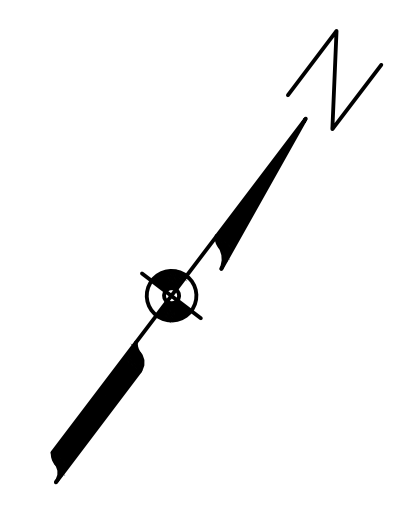
SOUTH MEADOWS ROAD GEOMETRICS PLAN  
 SCALE: 1" = 30'

DRAFT



**NOTES:**

1. UNLESS OTHERWISE NOTED, ALL GEOMETRICS ARE TAKEN FROM BACK OF CURB.
2. AN AUTOCAD DRAWING FILE WILL BE PROVIDED TO THE CONTRACTOR FOR DETAILED GEOMETRICS AND GRADING.



**CURB RAMP DETAIL**  
SCALE: 1" = 10'

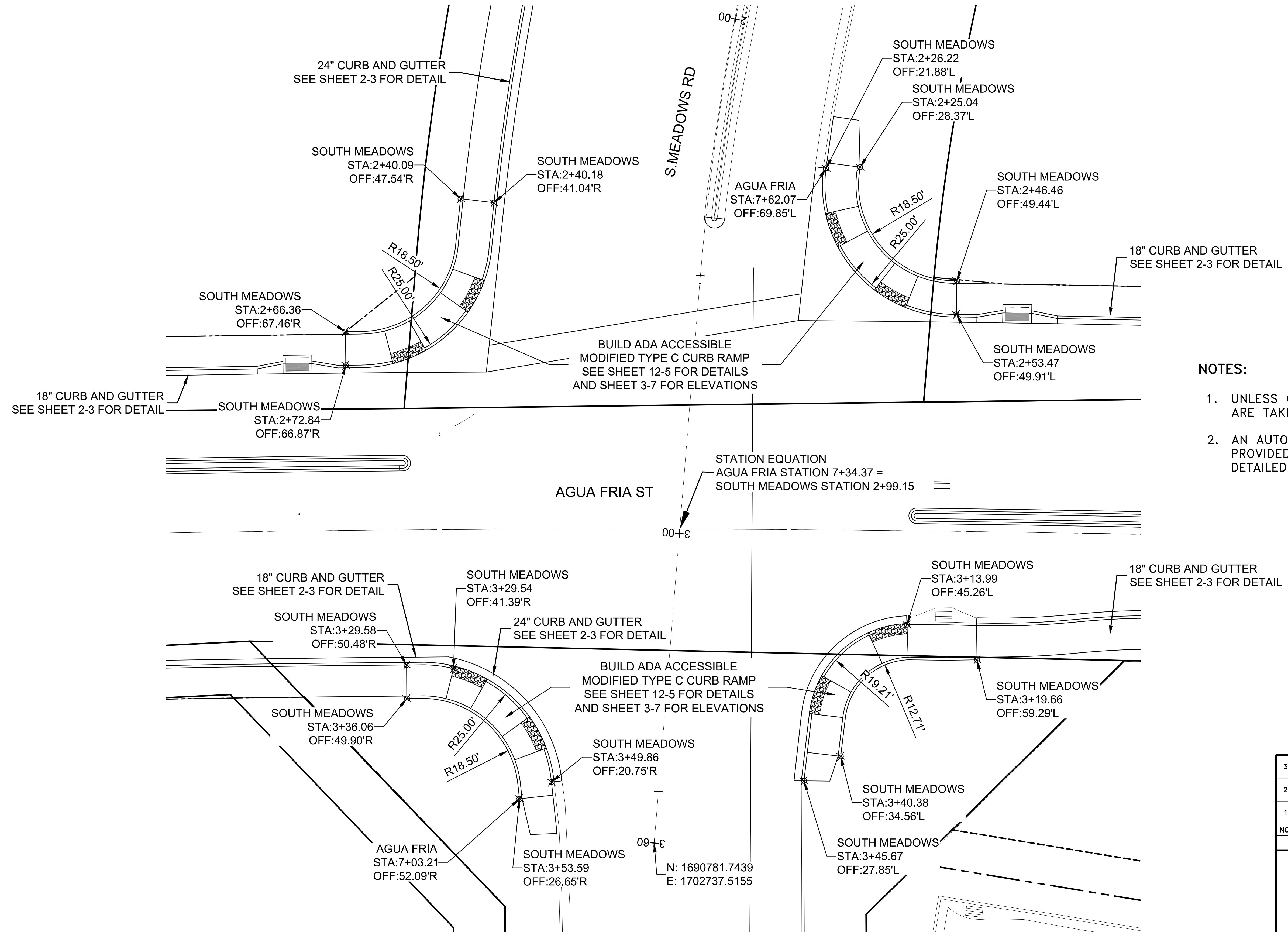
NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL  
NOT FOR CONSTRUCTION  
CURB RAMP DETAIL

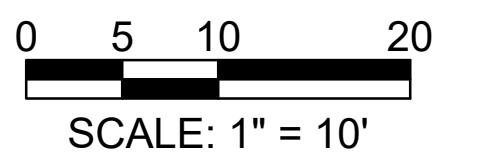
DRAFT





**NOTES:**

1. UNLESS OTHERWISE NOTED, ALL GEOMETRICS ARE TAKEN FROM BACK OF CURB.
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3			
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REVISIONS (OR CHANGE NOTICES)			

CITY OF SANTA FE  
 CIP# 853C  
 AGUA FRIA STREET AND  
 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS  
 100% PS&E SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

CURB RAMP DETAIL (CONT'D)

**CURB RAMP DETAIL**  
 SCALE: 1" = 10'

DRAFT

**REVEGETATION NOTES:**

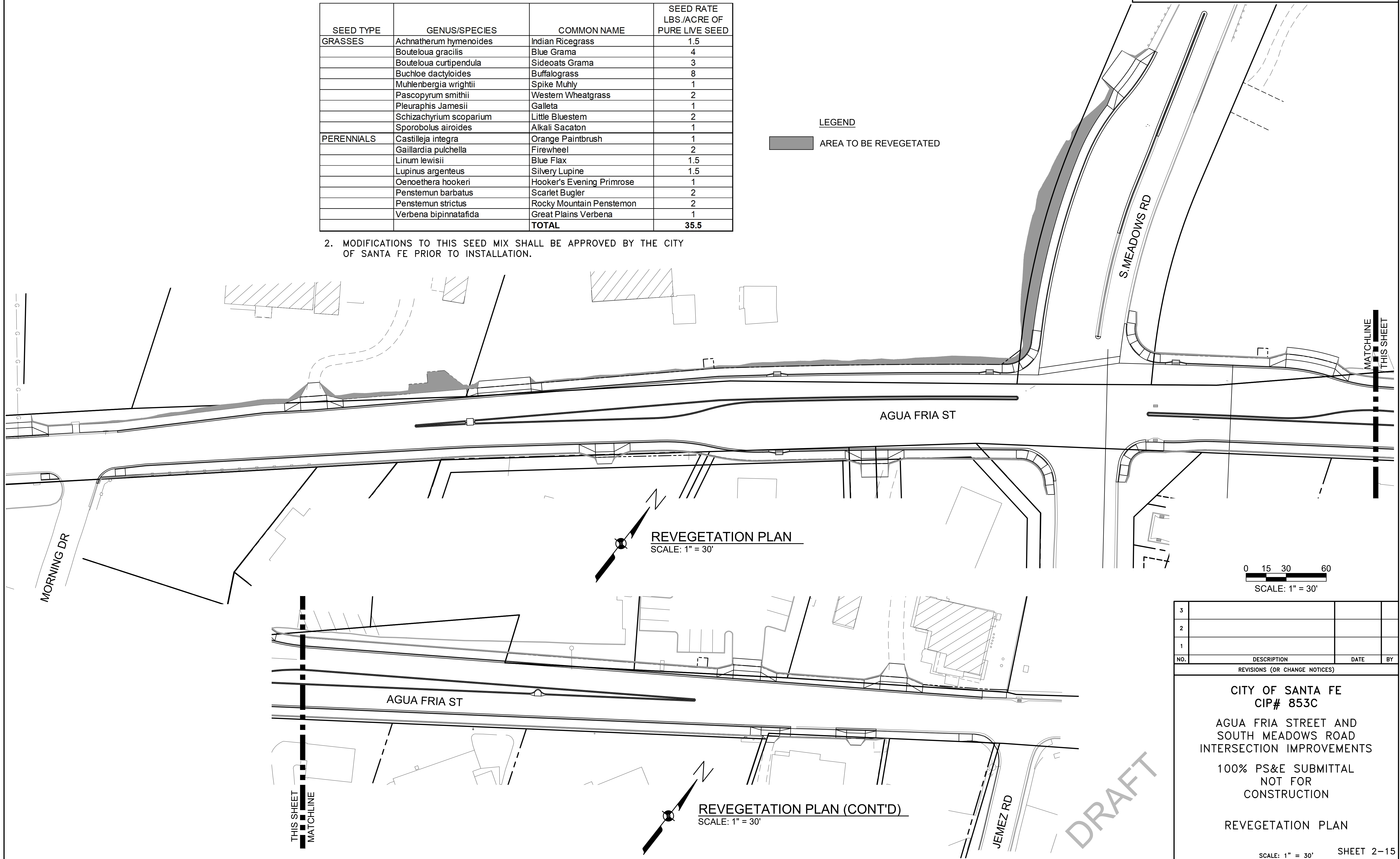
1. DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH SSHBC SPECIFICATION SECTION 632 WITH THE FOLLOWING CRITERIA MODIFIED HEREIN AT THE DIRECTION OF CITY OF SANTA FE STAFF:

SEED TYPE	GENUS/SPECIES	COMMON NAME	SEED RATE LBS./ACRE OF PURE LIVE SEED	
GRASSES	Achnatherum hymenoides	Indian Ricegrass	1.5	
	Bouteloua gracilis	Blue Grama	4	
	Bouteloua curtipendula	Sideoats Grama	3	
	Buchloe dactyloides	Buffalograss	8	
	Muhlenbergia wrightii	Spike Muhly	1	
	Pascopyrum smithii	Western Wheatgrass	2	
	Pleuraphis Jamesii	Galleta	1	
	Schizachyrium scoparium	Little Bluestem	2	
	Sporobolus airoides	Alkali Sacaton	1	
	PERENNIALS	Castilleja integra	Orange Paintbrush	1
		Gaillardia pulchella	Firewheel	2
		Linum lewisii	Blue Flax	1.5
Lupinus argenteus		Silvery Lupine	1.5	
Oenothera hookeri		Hooker's Evening Primrose	1	
Penstemon barbatus		Scarlet Bugler	2	
Penstemon strictus		Rocky Mountain Penstemon	2	
Verbena bipinnatifida		Great Plains Verbena	1	
	<b>TOTAL</b>		<b>35.5</b>	

2. MODIFICATIONS TO THIS SEED MIX SHALL BE APPROVED BY THE CITY OF SANTA FE PRIOR TO INSTALLATION.

**LEGEND**

■ AREA TO BE REVEGETATED



**REVEGETATION PLAN**  
SCALE: 1" = 30'

**REVEGETATION PLAN (CONT'D)**  
SCALE: 1" = 30'

0 15 30 60  
SCALE: 1" = 30'

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE  
CIP# 853C

AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

REVEGETATION PLAN

DRAFT

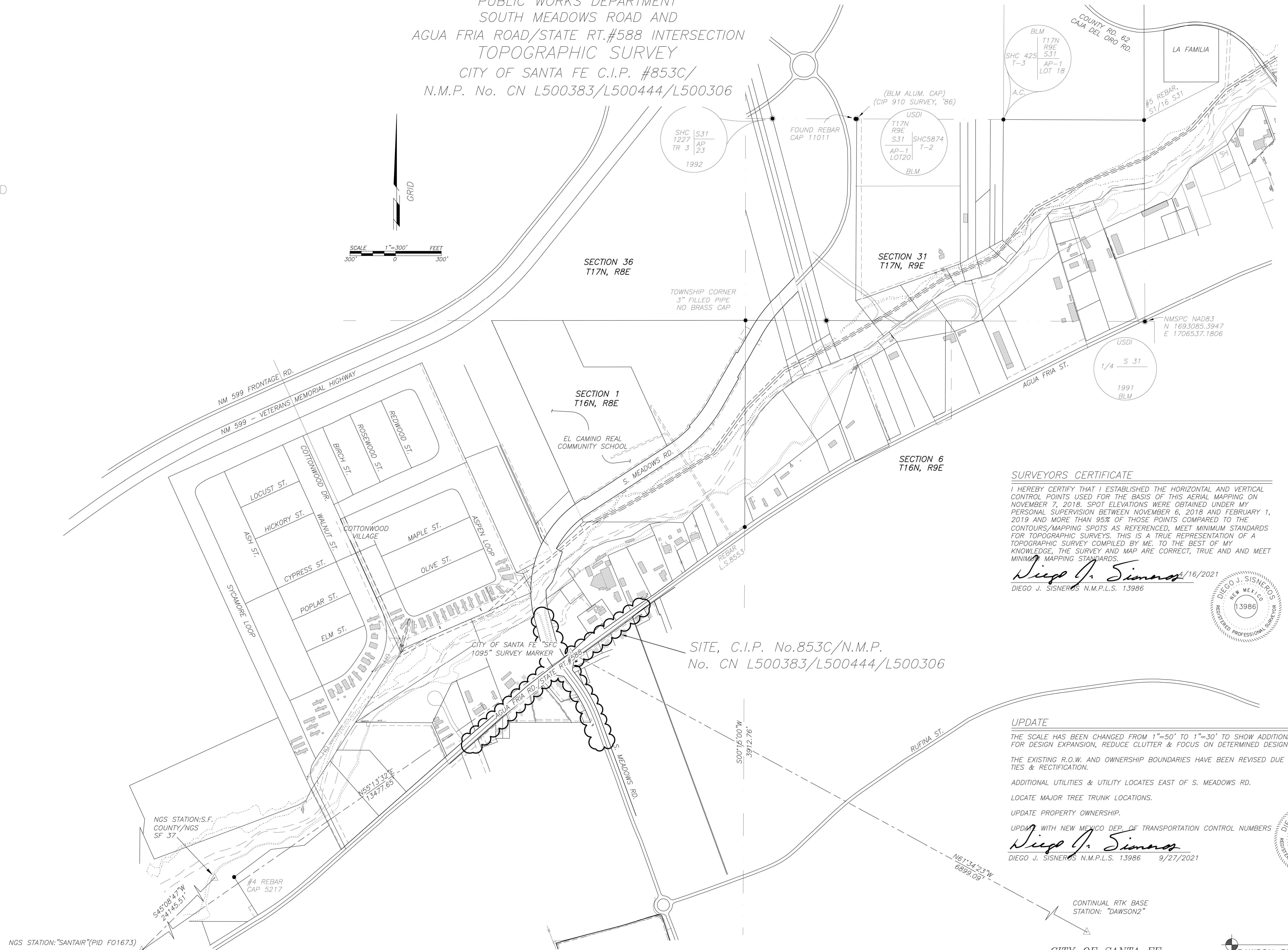
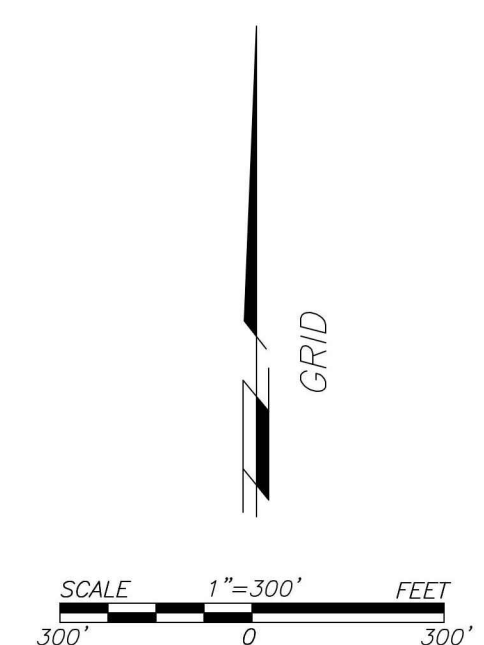


THE CITY OF SANTA FE  
PUBLIC WORKS DEPARTMENT  
SOUTH MEADOWS ROAD AND  
AGUA FRIA ROAD/STATE RT.#588 INTERSECTION  
TOPOGRAPHIC SURVEY  
CITY OF SANTA FE C.I.P. #853C/  
N.M.P. No. CN L500383/L500444/L500306

AEROTECH MAPPING LEGEND

SYMBOLS DESCRIPTIONS  
NOT ALL SYMBOLS SHOWN ARE USED  
CACTUS

- FLAG
- GRID TICK
- AERIAL PANELS
- PEDESTRIAN SIGNAL
- CULVERT
- POST- MISC
- SPOT ELEVATION
- BILLBOARD
- TRANSMISSION
- BRIDGE SIGNS
- CATCH BASIN
- FIRE HYDRANT
- METER / UTILITY
- MANHOLE
- STREET LIGHT
- LIGHT POLE
- UTILITY POLE
- SIGNS
- SIGNS
- TV DISH
- STREET SIGN
- GATE
- TRAFFIC SIGNAL
- VALVE
- ARROW / STRAIGHT
- ARROW / TURNS
- ARROWS / TURNS
- BIKE LANE
- HANDICAP
- TRAFFIC PAINT
- TRAFFIC PAINT
- MINE
- BUILDING
- BRIDGE
- CANOPY
- CENTER LINE PAINT
- CONCRETE
- CURB / GUTTER
- DIRT ROAD / TRAIL
- GOLF FAIRWAY
- FENCE
- INDEX CONTOUR
- INTER CONTOUR
- ASPHALT PAVEMENT
- SWIMMING POOL
- RETAINING WALL
- PAVED ROAD
- GUARD RAIL
- PARKING STRIPES
- WASH
- SINGLE TREE
- VEGETATION/TREE LINE
- BRUSH



SURVEYORS CERTIFICATE

I HEREBY CERTIFY THAT I ESTABLISHED THE HORIZONTAL AND VERTICAL CONTROL POINTS USED FOR THE BASIS OF THIS AERIAL MAPPING ON NOVEMBER 7, 2018. SPOT ELEVATIONS WERE OBTAINED UNDER MY PERSONAL SUPERVISION BETWEEN NOVEMBER 6, 2018 AND FEBRUARY 1, 2019 AND MORE THAN 95% OF THOSE POINTS COMPARED TO THE CONTOURS/MAPPING SPOTS AS REFERENCED, MEET MINIMUM STANDARDS FOR TOPOGRAPHIC SURVEYS. THIS IS A TRUE REPRESENTATION OF A TOPOGRAPHIC SURVEY COMPILED BY ME TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND MAP ARE CORRECT, TRUE AND AND MEET MINIMUM MAPPING STANDARDS.

*Diego J. Sisneros* 1/16/2021  
DIEGO J. SISNEROS N.M.P.L.S. 13986



SITE, C.I.P. No.853C/N.M.P.  
No. CN L500383/L500444/L500306

UPDATE

THE SCALE HAS BEEN CHANGED FROM 1"=50' TO 1"=30' TO SHOW ADDITIONAL PROPERTIES FOR DESIGN EXPANSION, REDUCE CLUTTER & FOCUS ON DETERMINED DESIGN AREA.

THE EXISTING R.O.W. AND OWNERSHIP BOUNDARIES HAVE BEEN REVISED DUE TO ADDITIONAL TIES & RECTIFICATION.

ADDITIONAL UTILITIES & UTILITY LOCATES EAST OF S. MEADOWS RD.

LOCATE MAJOR TREE TRUNK LOCATIONS.

UPDATE PROPERTY OWNERSHIP.

UPDATE WITH NEW MEXICO DEP. OF TRANSPORTATION CONTROL NUMBERS

*Diego J. Sisneros*  
DIEGO J. SISNEROS N.M.P.L.S. 13986 9/27/2021



CONTINUAL RTK BASE  
STATION: "DAWSON2"

VICINITY & OVERALL SITE MAP

CITY OF SANTA FE,  
SECTION 1 T16N, R9E, NMPM,  
SANTA FE COUNTY, NEW MEXICO

DAWSON SURVEYS INC.  
PROFESSIONAL LAND SURVEYORS  
7507 MALLARD WAY, SUITE A  
S.F., N.M.87507 PH505-471-6660  
FILE#10299TOPO DATE: 4/15/2021



GENERAL NOTES AND CONTROL REFERENCE

NMDOT CONTROL #

DIEGO J. SISNEROS  
NEW MEXICO PROFESSIONAL LAND SURVEYOR  
NEW MEXICO REGISTRATION NO. 13986  
2502 CAMINO ENTRADA SUITE B  
SANTA FE, NEW MEXICO 87507  
(505) 471-6660

1. DATE OF SURVEY: NOVEMBER 6, 2018
2. BASIS OF ELEVATIONS: DAWSON2 RTK CORS BASE STATION('92): 6572.38'
3. BASIS OF COORDINATES: DAWSON SURVEYS COR RTK BASE STATION DAWSON2: N1687626.870 E1708833.475.
4. BASIS OF BEARINGS: NM CENTRAL GRID BEARINGS USING PROJECTION FROM CARLSON SURVEY DATA COLLECTION PROGRAM. BEARING & DISTANCE TIE FROM DAWSON2 TO CITY OF SANTA FE "SFC 1095" SURVEY MARKER: N61°34'23"W 6899.09'. BEARING AND DISTANCE TIE FROM DAWSON2 TO NGS STATION SANTAIR(PID FO1673): S75°35'32"W 17694.30'
5. COORDINATE SYSTEM: NEW MEXICO STATE PLANE CENTRAL ZONE 3002
6. HORIZONTAL DATUM: NAD83(1992) NGS BLUE BOOK CONTROL REPORT
7. VERTICAL DATUM: NAVD88(1992) NGS BLUE BOOK CONTROL REPORT

THE CONTRACTOR SHALL NOT DISTURB, COVER, OR REMOVE ANY SURVEY MONUMENTS INCLUDING TRIANGULATION STATIONS, BENCH MARKS, MONUMENTS, LAND GRANT MARKERS, SECTION CORNERS, NMDOT OR ANY OTHER PERMANENT REFERENCE MARKERS LOCATED WITHIN THE CONSTRUCTION LIMITS (INCLUDING THE LIMITS OF TEMPORARY CONSTRUCTION PERMITS) OR ON THE RIGHT-OF-WAY LINE OF THIS PROJECT, UNLESS WRITTEN DOCUMENTATION REGARDING REFERENCING OF SAID MARKER HAS BEEN PROVIDED BY THE CONTRACTOR TO THE PROJECT ENGINEER FOR HIS APPROVAL. SUCH REFERENCING SHALL BE DONE IN ACCORDANCE WITH STATUTE 61-23-1 THROUGH 61-23-32 N.M.S.A. (1978). THE CONTRACTOR AT HIS EXPENSE, SHALL RESET DESTROYED MONUMENTS IN ACCORDANCE WITH STATUTE 61-23-1 THROUGH 61-23-32 N.M.S.A. (1978) AND IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE GEODETIC MARK PRESERVATION GUIDEBOOK, NATIONAL GEODETIC SURVEY, MARCH 1990. CONTACT: NGS MARK PRESERVATION CENTER-NOAA. RC-325 BROADWAY, BOULDER, CO 80303 TELEPHONE (303) 497-6530, FTS 320-6530. ALL NOTES BY THE CONTRACTOR REGARDING REFERENCING OF SAID MONUMENTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER SO THAT HE MAY FORWARD THEM TO THE SURVEYING AND LANDS ENGINEERING SECTION, MONUMENTATION UNIT. THE CONTRACTOR SHALL BE ASSESSED ONE THOUSAND DOLLARS (\$1,000.00) PENALTY FOR EACH MONUMENT WHICH HAS NOT BEEN PROPERLY REFERENCED PRIOR TO ITS DISTURBANCE OR DESTRUCTION.

SURVEYORS CERTIFICATE

I HEREBY CERTIFY THAT I ESTABLISHED THE HORIZONTAL AND VERTICAL CONTROL POINTS USED FOR THE BASIS OF THIS AERIAL MAPPING ON NOVEMBER 7, 2018.

Diego J. Sisneros 4/16/2021  
DIEGO J. SISNEROS N.M.P.L.S. 13986



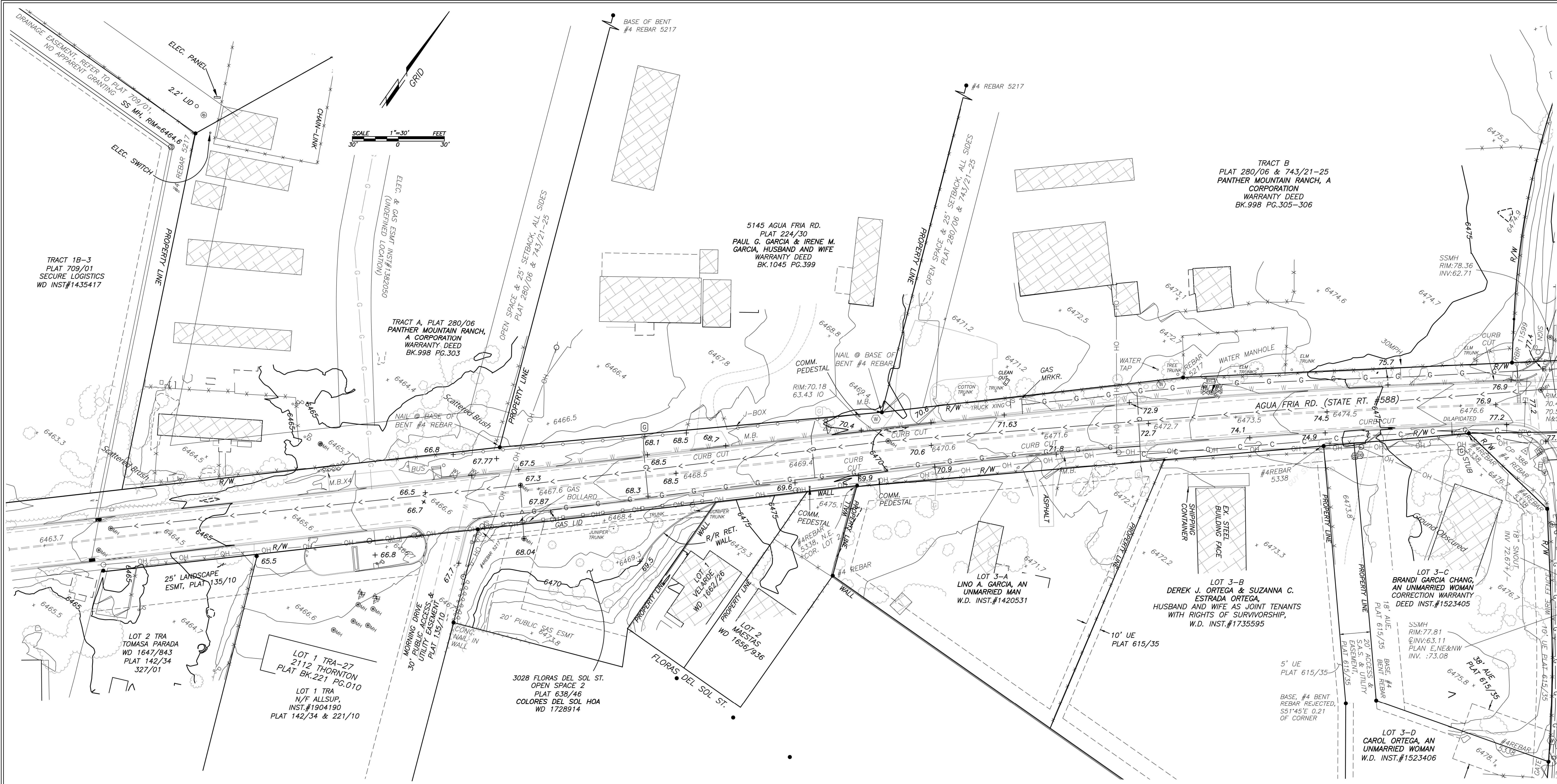
THE CITY OF SANTA FE  
PUBLIC WORKS DEPARTMENT  
SOUTH MEADOWS ROAD AND  
AGUA FRIA ROAD/STATE RT.#588 INTERSECTION  
TOPOGRAPHIC SURVEY  
CITY OF SANTA FE C.I.P. #853C/  
N.M.P. No. CN L500383/L500444/L500306

-----  
SURVEY NOTES AND GPS CONTROL

CITY OF SANTA FE,  
SECTION 1 T16N, R9E, NMPM,  
SANTA FE COUNTY, NEW MEXICO

SHEET 2 OF 4  
DAWSON SURVEYS INC.  
PROFESSIONAL LAND SURVEYORS  
7505 MALLARD WAY, SUITE A  
SANTA FE, NEW MEXICO  
FILE#10299TOPO DATE:4/15/2021





TRACT B  
 PLAT 280/06 & 743/21-25  
 PANTHER MOUNTAIN RANCH, A  
 CORPORATION  
 WARRANTY DEED  
 BK.998 PG.305-306

TRACT 1B-3  
 PLAT 709/01  
 SECURE LOGISTICS  
 WD INST#1435417

TRACT A, PLAT 280/06  
 PANTHER MOUNTAIN RANCH,  
 A CORPORATION  
 WARRANTY DEED  
 BK.998 PG.303

5145 AGUA FRIA RD.  
 PLAT 224/30  
 PAUL G. GARCIA & IRENE M.  
 GARCIA, HUSBAND AND WIFE  
 WARRANTY DEED  
 BK.1045 PG.399

LOT 3-A  
 LINO A. GARCIA, AN  
 UNMARRIED MAN  
 W.D. INST.#1420531

LOT 3-B  
 DEREK J. ORTEGA & SUZANNA C.  
 ESTRADA ORTEGA,  
 HUSBAND AND WIFE AS JOINT TENANTS  
 WITH RIGHTS OF SURVIVORSHIP,  
 W.D. INST.#1735595

LOT 3-C  
 BRANDI GARCIA CHANG,  
 AN UNMARRIED WOMAN  
 CORRECTION WARRANTY  
 DEED INST.#1523405

LOT 3-D  
 CAROL ORTEGA, AN  
 UNMARRIED WOMAN  
 W.D. INST.#1523406

D.S.I. LEGEND & ABBREVIATIONS

- DENOTES UTILITY POLE
- DENOTES GUY WIRE/ANCHOR
- DENOTES CALCULATED POINT, NOT SET
- DENOTES FOUND BRASS CAP, AS SHOWN
- DENOTES FOUND MONUMENTS AS INDICATED HEREON.
- DENOTES CHAIN LINK FENCE
- DENOTES WIRE FENCE
- OH DENOTES OVERHEAD UTILITY LINE
- FO DENOTES FIBER OPTIC LOCATES
- C DENOTES COMMUNICATION UTILITY LOCATES
- W DENOTES WATER LINE, ASSUMED
- E DENOTES ELECTRIC LOCATES
- G DENOTES GAS LOCATES
- ⊗ DENOTES WATER METER
- ⊕ DENOTES WATER VALVE
- ⊕ DENOTES FIRE HYDRANT
- ⊕ DENOTES GAS METER OR RISER
- ⊕ DENOTES FLOOD ZONE LIMIT REF. DOC.#2
- ⊕ DENOTES APPROXIMATE BUILDING AS DEPICTED FROM VARIOUS SATELLITE OR AERIAL PHOTOS

D.S.I. ABBREVIATIONS

- Q.D. DENOTES QUITCLAIM DEED
- W.D. DENOTES WARRANTY DEED
- SWD DENOTES SPECIAL WARRANTY DEED
- P.R.D. DENOTES PERSONAL REPRESENTATIVES WARRANTY DEED
- RCP DENOTES REINFORCED CONCRETE PIPE
- CPV DENOTES CORRUGATED POLYETHYLENE PIPE CULVERT
- CMP DENOTES CORRUGATED METAL PIPE CULVERT
- I.I. DENOTES INVERT IN
- I.O. DENOTES INVERT OUT
- A.C. DENOTES ALUMINUM CAP, SURVEY MONUMENT
- S.A.S. DENOTES SANITARY SEWER
- DE DENOTES DRAINAGE EASEMENT
- M.B. DENOTES MAILBOX

THE CITY OF SANTA FE  
 PUBLIC WORKS DEPARTMENT  
 SOUTH MEADOWS ROAD AND  
 AGUA FRIA ROAD/STATE RT.#588 INTERSECTION  
 TOPOGRAPHIC SURVEY  
 CITY OF SANTA FE C.I.P. #853C/  
 N.M.P. No. CN L500383/L500444/L500306

CITY OF SANTA FE,  
 SECTION 1 T16N, R9E, NMPM,  
 SANTA FE COUNTY, NEW MEXICO

*Diego J. Sisneros*  
 DIEGO J. SISNEROS N.M.P.L.S. 13986 9/27/2021



SHEET 3 OF 4  
 DAWSON SURVEYS INC.  
 7505 MALLARD WAY, SUITE A  
 SANTA FE, NEW MEXICO  
 FILE#10299TOPO DATE:4/15/2021











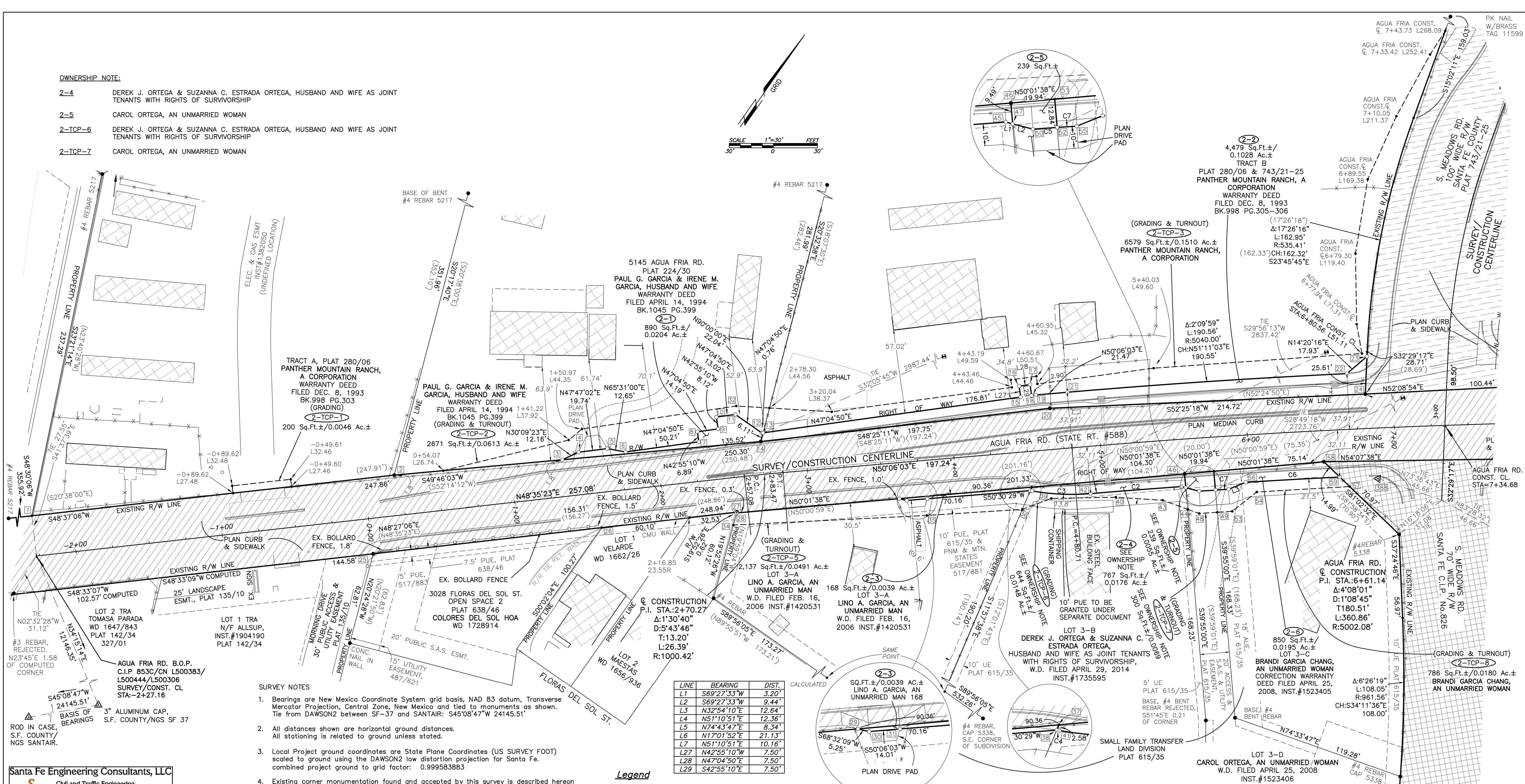
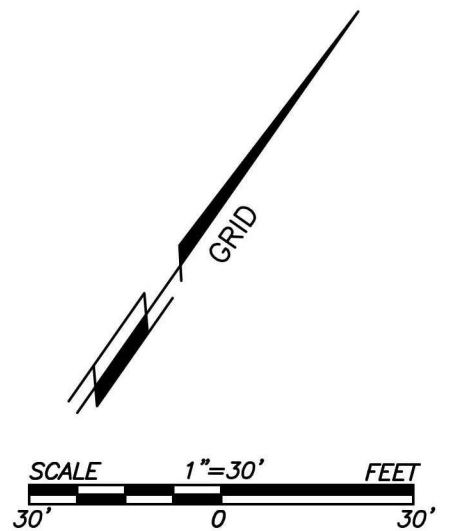
**OWNERSHIP NOTE:**

2-4 DEREK J. ORTEGA & SUZANNA C. ESTRADA ORTEGA, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP

2-5 CAROL ORTEGA, AN UNMARRIED WOMAN

2-TCP-6 DEREK J. ORTEGA & SUZANNA C. ESTRADA ORTEGA, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP

2-TCP-7 CAROL ORTEGA, AN UNMARRIED WOMAN



- SURVEY NOTES**
- Bearings are New Mexico Coordinate System grid basis, NAD 83 datum, Transverse Mercator Projection, Central Zone, New Mexico and tied to monuments as shown. Tie from DAWSON2 between SF-37 and SANTAIR: S45°08'47"W 24145.51'
  - All distances shown are horizontal ground distances. All stationing is related to ground unless stated.
  - Local Project ground coordinates are State Plane Coordinates (US SURVEY FOOT) scaled to ground using the DAWSON2 low distortion projection for Santa Fe. Combined project ground to grid factor: 0.999583883
  - Existing corner monumentation found and accepted by this survey is described hereon and tagged with a brass washer stamped plus "13986".
  - Basis of stationing for construction centerline derived from construction plans entitled C.I.P. 853C/CN L500383/L500444/L500306. All stations and offsets are survey/construction C.
  - Bearings and distances labeled in "(parenthesis)" are from record documents listed hereon and are shown where such information differs from data compiled by this survey.
  - Distances shown opposite stationing are at right angles or radial to construction centerline. See Point Identification Table for further information.
  - This survey is based on found monumentation from previous local surveys and or those surveys as referenced hereon.
  - Survey centerline and construction centerline are co-incident.
  - For Right-of-Way encroachments refer to separate exhibits prepared for C.I.P. 853C/CN L500383/L500444/L500306.
  - For build notes and other construction information, refer to construction plans for C.I.P. 853C/CN L500383/L500444/L500306.

LINE	BEARING	DIST.
L1	S69°27'33"W	3.20'
L2	S69°27'33"W	9.44'
L3	N32°54'10"E	12.64'
L4	N51°10'51"E	12.36'
L5	N74°43'47"E	8.34'
L6	N17°01'52"E	21.13'
L7	N51°10'51"E	10.16'
L27	N42°55'10"W	7.50'
L28	N47°04'50"E	7.50'
L29	S42°55'10"E	7.50'

- Legend**
- △ = Control monument as noted
  - ◆ = N.E. cor. S1, T16N, R8E, 3" Iron Pipe, no brass cap (tie point)
  - = Point Table Number identifier, Agua Fria Rd. construction centerline.
  - = Point Found as noted
  - = Calculated R/W or property corner
  - = Calculated TCP or property corner
  - = Fence Line
  - = Bollard Fence Line
  - = PUBLIC UTILITY EASEMENT
  - ▨ = AGUA FRIA ST.(ST. RTE. #588) BY PRESCRIPTIVE RIGHTS
  - ▨ = SFCO RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER PLAT BK. 743 PG. 21-25.
  - ▨ = CITY RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER C.I.P. No.826

CURVE	DELTA	LENGTH	RADIUS	CH. BEARING	CHORD
C2	0°42'41"	61.71'	4969.97'	S50°34'19"W	61.71'
C3	14°43'55"	39.99'	155.52'	S57°34'48"W	39.88'
C4	0°30'33"	1.28'	144.56'	S64°41'21"W	1.28'
C5	0°07'39"	11.04'	4965.97'	S51°07'46"W	11.04'
C6	0°44'18"	64.03'	4968.87'	N51°48'12"E	64.03'
C7	0°06'11"	8.93'	4965.97'	N51°14'41"E	8.93'

**SURVEYOR'S CERTIFICATE**

I CERTIFY THAT I AM A REGISTERED PROFESSIONAL SURVEYOR AND THAT THESE R/W MAPS ARE AN INTERIM PRODUCT OF PROJECT DESIGN DEVELOPMENT AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED UNDER MY DIRECTION IN DEC, 2019. CONFORMANCE WITH THE STATE OF NEW MEXICO'S MINIMUM STANDARDS FOR RIGHT OF WAY SURVEYING WILL OCCUR FOLLOWING ACTUAL ACQUISITION OF RIGHT OF WAY REQUIRED BY PROJECT NUMBER L500383/L500444/L500306/C.I.P. 853C.

*Diego J. Cisneros*  
 DIEGO J. CISNEROS, N.M.P.L.S. NO. 13986 11/27/2021  
 DAWSON SURVEYS, INC.  
 2502 B CAMINO ENTRADA, SANTA FE, N.M. 87507

**Santa Fe Engineering Consultants, LLC**  
 Civil and Traffic Engineering  
 Construction Management  
 Land Development  
 1599 St. Francis Drive, Suite B  
 Santa Fe, N.M. 87505  
 (505) 982-2845 Fax (505) 982-2641

Right of Way Map Prepared By: DAWSON SURVEYS, INC.

JOB No. DS#10299

NO.	DESCRIPTION	DATE	BY
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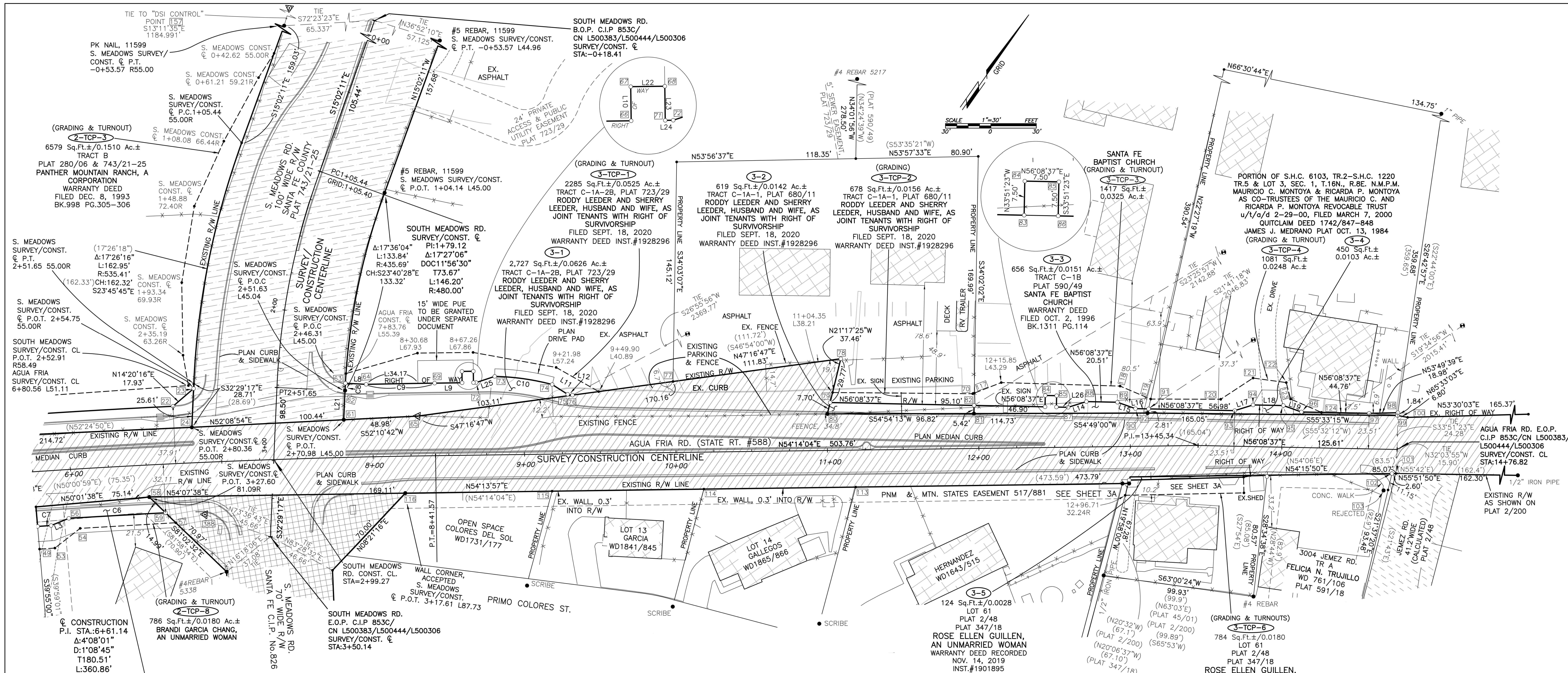
FOR OWNERS NAME AND AREAS FOR PARCEL NUMBERS SHOWN SEE SHEET 1A OF 3.

**FINAL MAP**  
 DATE: _____

PCN L500383/L500444/L500306

NEW MEXICO DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY MAP**  
 CITY OF SANTA FE PROJECT NO. 853C  
 NEW MEXICO PROJECT NO. CN L500383/L500444/L500306  
 SANTA FE COUNTY  
 SCALE 1" = 30' SHEET 2 OF 3





**SURVEY NOTES**

- Bearings are New Mexico Coordinate System grid basis, NAD 83 datum, Transverse Mercator Projection, Central Zone, New Mexico and tied to monuments as shown. Tie from DAWSON2 between SF-37 and SNTAIR: S45°08'47"W 24145.51'
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- For build notes and other construction information, refer to construction plans for C.I.P. 853C/ CN L500383/L500444/L500306.

CURVE	DELTA	LENGTH	RADIUS	CH. BEARING	CHORD
C8	0°38'09"	4.84'	435.69'	N32°09'25"W	4.84'
C9	0°30'46"	45.20'	5050.00'	N53°58'41"E	45.20'
C10	13°47'49"	38.42'	159.57'	N63°02'06"E	38.33'
C11	0°07'30"	11.05'	5065.01'	S54°10'19"W	11.05'
C12	49°65.97"	11.04'	11.04'	S51°07'46"W	0°07'39"

**Legend**

- ▲ = Control monument as noted
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- ⊕ = Point Table number identifier, Agua Fria Rd. construction centerline.
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- [Hatched Box] = SFCO RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER PLAT BK. 743 PG. 21-25.
- [Hatched Box] = CITY RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER C.I.P. No.826

LINE	BEARING	DIST.
L8	N58°08'56"E	13.77'
L9	N54°14'04"E	18.18'
L10	N35°45'56"W	7.50'
L11	N87°15'01"E	12.10'
L12	N65°01'07"E	3.22'
L13	N33°37'58"E	1.09'
L14	N37°42'31"E	12.65'
L15	N74°34'43"E	12.65'
L16	N56°08'37"E	8.63'
L17	N37°42'31"E	12.65'
L18	N56°08'37"E	20.01'
L19	N74°34'43"E	12.65'
L20	S49°51'02"E	11.25'
L21	N32°29'17"W	19.33'
L22	N54°14'04"E	7.50'
L23	S35°45'56"W	7.50'
L24	N54°14'04"E	1.75'
L25	N36°37'57"E	12.94'
L26	N56°08'37"E	7.73'

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*Diego J. Cisneros*  
 DIEGO J. CISNEROS N.M.P.L.S. No. 13986 11/27/2021  
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Right of Way Map Prepared By: DAWSON SURVEYS, INC.

JOB No.DSI#10299

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)			

FOR OWNERS NAME AND AREAS FOR PARCEL NUMBERS SHOWN SEE SHEET 1A OF 3.

CITY OF SANTA FE  
 SECTION 1  
 TOWNSHIP 16 NORTH, RANGE 9 EAST

**FINAL MAP**

DATE: _____

PCN L500383/L500444/  
 L500306

NEW MEXICO DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY MAP**  
 CITY OF SANTA FE PROJECT NO.  
 853C  
 NEW MEXICO PROJECT NO.  
 CN L500383/L500444/L500306  
 SANTA FE COUNTY  
 SCALE 1" = 30' SHEET 3 OF 3



# PARCEL BLOCK SHEET

## RIGHT-OF-WAY ACQUISITION

PARCEL NUMBER	GRANTOR	AREA		AREA REMAINDER acres ±	LARGER PARCEL acres ±	NOTE
		sq. ft.±	acres±			
2-1	PAUL G. GARCIA AND IRENE M. GARCIA, HUSBAND AND WIFE	890	0.0204	1.6931	1.7135	**
2-2	PANTHER MOUNTAIN RANCH, A CORPORATION	4,479	0.1028	4.9608	5.0636	**
2-3	LINO A. GARCIA, AN UNMARRIED MAN	168	0.0039	0.4962	0.500	**
2-4	DEREK J. ORTEGA & SUZANNA C. ESTRADA ORTEGA, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP	767	0.0176	0.8913	0.909	**
2-5	CAROL ORTEGA, AN UNMARRIED WOMAN	239	0.0055	0.494	0.500	**
2-6	BRANDI GARCIA CHANG, AN UNMARRIED WOMAN	850	0.0195	0.480	0.500	**
3-1	RODDY LEEDER AND SHERRY LEEDER, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	2,727	0.0626	1.696	1.758	**
3-2	RODDY LEEDER AND SHERRY LEEDER, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	619	0.0142	0.6858	0.7000	**
3-3	SANTA FE BAPTIST CHURCH	656	0.0151	2.8579	2.873	**
3-4	MAURICIO C. MONTOYA & RICARDA P. MONTOYA AS CO-TRUSTEES OF THE MAURICIO C. AND RICARDA P. MONTOYA REVOCABLE TRUST U/T/A/D 2-29-00	450	0.0103	1.2673	1.2777	***
3-5	ROSE ELLEN GUILLEN, AN UNMARRIED WOMAN	124	0.0028	0.1565	0.1596	****

## TEMPORARY CONSTRUCTION PERMITS

PARCEL NUMBER	OWNER	AREA		AREA REMAINDER acres ±	LARGER PARCEL acres ±	NOTE
		sq. ft.±	acres±			
2-TCP-1	PANTHER MOUNTAIN RANCH, A CORPORATION	200	0.0046	1.6954	1.7000	*
2-TCP-2	PAUL G. GARCIA AND IRENE M. GARCIA, HUSBAND AND WIFE	2,671	0.0613	1.6522	1.7135	**
2-TCP-3	PANTHER MOUNTAIN RANCH, A CORPORATION	6,579	0.1510	4.9126	5.0636	**
2-TCP-5	LINO A. GARCIA, AN UNMARRIED MAN	2,137	0.0491	0.4509	0.500	**
2-TCP-6	DEREK J. ORTEGA & SUZANNA C. ESTRADA ORTEGA, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP	644	0.0148	0.8942	0.909	**
2-TCP-7	CAROL ORTEGA, AN UNMARRIED WOMAN	300	0.0069	0.4931	0.500	**
2-TCP-8	BRANDI GARCIA CHANG, AN UNMARRIED WOMAN	786	0.0180	0.4820	0.500	**
3-TCP-1	RODDY LEEDER AND SHERRY LEEDER, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	2,285	0.0525	1.7055	1.758	**
3-TCP-2	RODDY LEEDER AND SHERRY LEEDER, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	678	0.0156	0.6844	0.7000	**
3-TCP-3	SANTA FE BAPTIST CHURCH	1,417	0.0325	2.8405	2.873	**
3-TCP-4	MAURICIO C. MONTOYA & RICARDA P. MONTOYA AS CO-TRUSTEES OF THE MAURICIO C. AND RICARDA P. MONTOYA REVOCABLE TRUST U/T/A/D 2-29-00	1,081	0.0248	1.2529	1.2777	*
3-TCP-6	ROSE ELLEN GUILLEN, AN UNMARRIED WOMAN	784	.0180	0.1416	0.1596	****

**Santa Fe Engineering Consultants, LLC**  
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 1599 St. Francis Drive, Suite B  
 Santa Fe, N.M. 87505  
 (505) 982-2845 Fax (505) 982-2641

Right of Way Map Prepared By: DAWSON SURVEYS, INC.

JOB No. DSI#10299

**DAWSON SURVEYS INC.**  
 PROFESSIONAL LAND SURVEYORS  
 7505 MALLARD WAY, SUITE A  
 SANTA FE, N.M. 87507

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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

NOTE:  
 LARGER PARCEL AREAS WERE OBTAINED FROM:  
 RECORD DEED(AS SHOWN ON MAPS):*  
 RECORDED PLAT(AS SHOWN ON MAPS):**  
 PROPERTY TAX RECORDS:***  
 FIELD SURVEY DATA:****

FINAL MAP  
 DATE: _____

PCN L500383/L500444/  
 L500306

NEW MEXICO DEPARTMENT OF TRANSPORTATION  
  
**RIGHT OF WAY MAP**  
 CITY OF SANTA FE PROJECT NO.  
**853C**  
 NEW MEXICO PROJECT NO.  
**CN L500383/L500444/L500306**  
 SANTA FE COUNTY  
 SHEET 1A OF 3



AGUA FRIA ROAD SURVEY & CONSTRUCTION CENTERLINE REFERENCE POINT TABLE(PROJECT GROUND COORDINATES)


POINT #	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
1	- 2+27.27	L27.55	102606.230	93117.100	CALCULATED POINT
2	0+20.65	L27.41	102770.110	93303.130	NAIL AT BASE, BENT, #4 REBAR
3	1+35.35	L25.07	102844.220	93390.700	CALCULATED POINT
4	1+46.89	L28.91	102854.740	93396.810	CALCULATED POINT
5	1+66.63	L29.19	102868.000	93411.440	CALCULATED POINT
6	1+78.74	L25.50	102873.250	93422.950	CALCULATED POINT
7	2+28.93	L26.83	102907.440	93459.720	CALCULATED POINT
8	2+28.75	L33.71	102912.480	93455.030	CALCULATED POINT
9	2+42.93	L34.08	102922.140	93465.420	CALCULATED POINT
10	2+42.72	L42.20	102928.090	93459.890	CALCULATED POINT
11	2+55.74	L42.54	102936.960	93469.430	CALCULATED POINT
12	2+71.85	L28.08	102936.960	93491.470	CALCULATED POINT
13	2+72.59	L28.11	102937.470	93492.020	CALCULATED POINT
14	2+70.54	L22.37	102931.750	93494.160	NAIL AT BASE, BENT, #4 REBAR
15	4+48.84	L37.37	103057.870	93621.500	CALCULATED POINT
16	4+48.45	L44.86	103063.370	93616.390	CALCULATED POINT
17	4+55.94	L45.25	103068.480	93621.890	CALCULATED POINT
18	4+56.34	L37.76	103062.980	93626.990	CALCULATED POINT
19	4+59.23	L37.91	103064.960	93629.120	CALCULATED POINT
20	4+67.93	L28.09	103063.000	93642.090	#4 REBAR CAP 5217
21	4+80.71	L37.91	103078.730	93645.590	CALCULATED POINT
22	6+69.83	L37.91	103198.170	93794.060	CALCULATED POINT
23	6+83.84	L48.96	103215.550	93798.500	CALCULATED POINT
24	6+81.60	L23.45	103193.960	93812.280	#5 REBAR, CAP 11599
25	0+00.45	R24.07	102718.140	93322.030	#4 REBAR, CAP 5217
26	1+56.76	R23.69	102821.450	93439.150	CALCULATED POINT
27	2+49.38	R23.47	102883.250	93508.330	#4 REBAR, CAP 5338
28	2+49.16	R24.05	102882.660	93508.540	CALCULATED POINT
29	3+60.77	R24.45	102953.950	93593.580	CALCULATED POINT
30	3+65.75	R26.11	102955.870	93598.470	CALCULATED POINT
31	3+79.75	R26.11	102964.860	93609.210	CALCULATED POINT
32	2+56.99	R48.20	102942.026	93466.627	CALCULATED POINT
33	4+09.69	R24.39	102985.380	93631.070	CALCULATED POINT
34	2+46.02	R31.98	102874.640	93511.440	CALCULATED POINT
35	3+78.51	R37.32	102955.462	93615.448	CALCULATED POINT
36	4+43.49	R38.74	102996.054	93666.205	CALCULATED POINT
37	4+51.12	R24.33	103012.000	93662.830	CALCULATED POINT
38	4+49.92	R26.61	103009.480	93663.360	CALCULATED POINT
39	4+63.74	R33.11	103013.362	93678.139	CALCULATED POINT
40	5+07.73	R35.98	103039.195	93713.616	CALCULATED POINT
41	4+51.16	R26.93	103010.030	93664.520	CALCULATED POINT
42	4+90.76	R32.11	103031.410	93698.180	CALCULATED POINT
43	5+39.53	R40.48	103055.753	93740.854	CALCULATED POINT
44	5+56.15	R47.76	103060.498	93758.236	CALCULATED POINT
45	5+52.87	R32.11	103070.600	93745.850	CALCULATED POINT
46	5+55.78	R23.64	103079.000	93742.750	#4 REBAR, CAP 5338
47	5+55.92	R33.13	103071.720	93748.840	CALCULATED POINT
48	5+63.87	R51.12	103062.696	93766.285	CALCULATED POINT
49	5+76.36	R51.13	103070.446	93775.917	CALCULATED POINT
50	5+64.94	R36.12	103075.040	93757.680	CALCULATED POINT
51	5+75.81	R23.27	103091.820	93758.040	CALCULATED POINT
52	5+76.06	R36.12	103081.960	93766.280	CALCULATED POINT
53	5+86.63	R51.12	103076.817	93783.836	CALCULATED POINT
54	6+04.22	R39.19	103097.021	93790.025	CALCULATED POINT
55	5+85.05	R36.12	103087.550	93773.240	CALCULATED POINT
56	5+97.12	R32.11	103098.160	93780.100	CALCULATED POINT
57	6+67.99	R 38.90	103136.304	93839.620	CALCULATED POINT
58	6+51.26	R21.18	103140.090	93815.620	#4 REBAR, CAP 5338
59	6+61.56	R32.11	103137.753	93830.423	CALCULATED POINT
60	6+71.05	R42.12	103135.610	93843.990	CALCULATED POINT

SURVEY NOTES

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JOB No. DSI#10299			
 DAWSON SURVEYS INC. PROFESSIONAL LAND SURVEYORS 7505 MALLARD WAY, SUITE A SANTA FE, N.M. 87507			
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3			
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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

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*Diego J. Siner*  
 DIEGO J. SENERO, N.M.P.E.S. NO. 13986 11/2/2021  
 DAWSON SURVEYS, INC.  
 2502 B CAMINO ENTRADA, SANTA FE, N.M. 87507



FINAL MAP

DATE: _____

PCN L500383/L500444/  
L500306

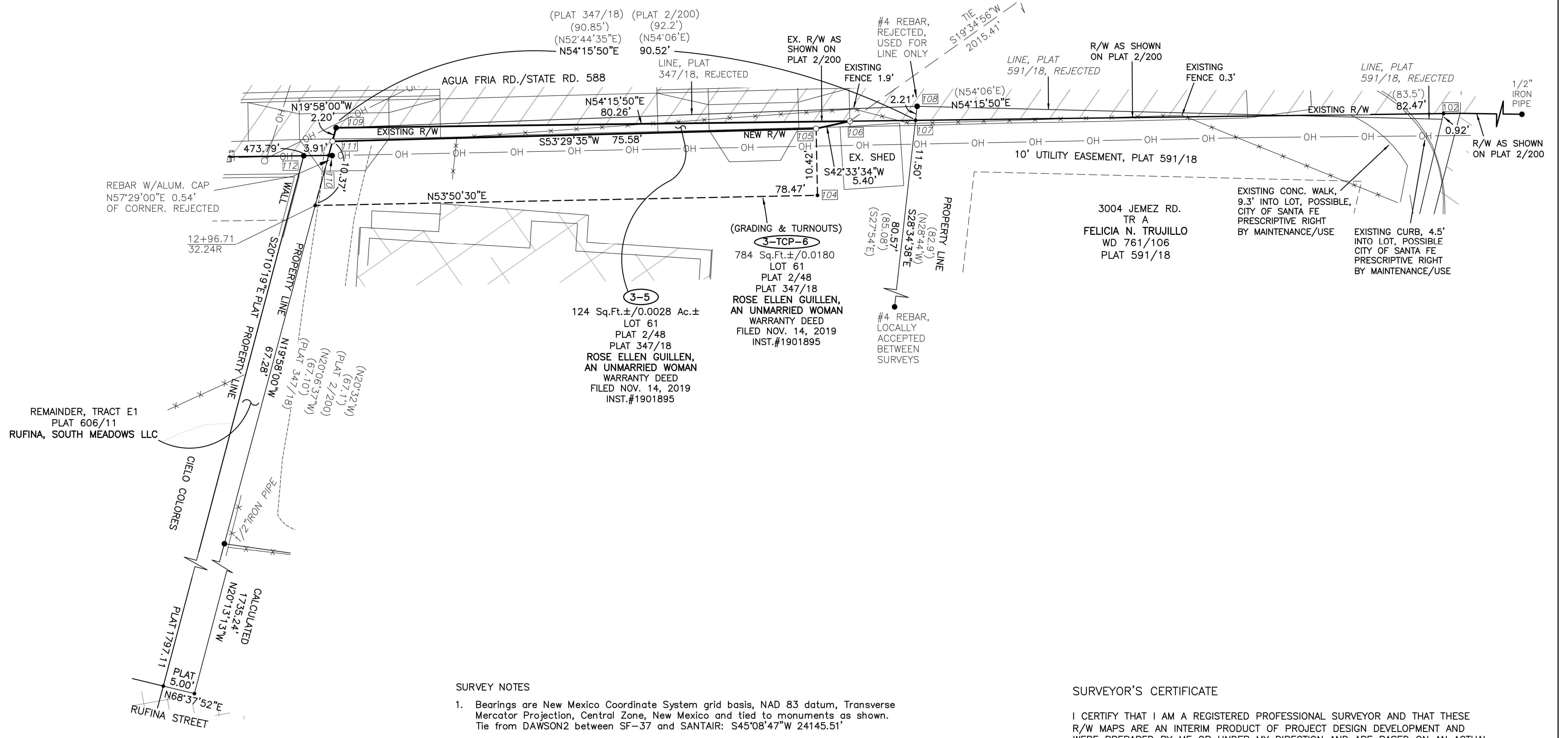
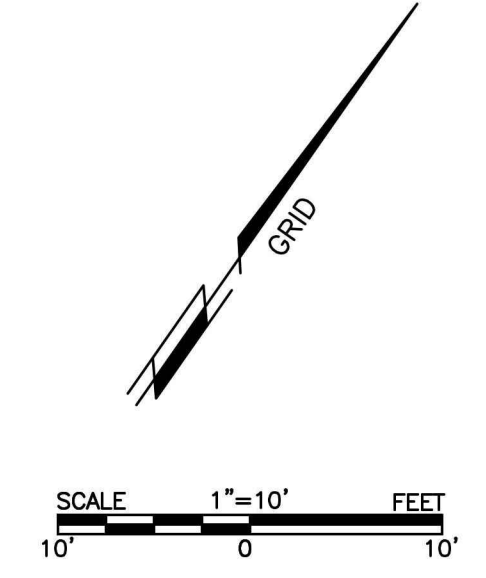
NEW MEXICO DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY MAP**  
 CITY OF SANTA FE PROJECT NO.  
**853C**  
 NEW MEXICO PROJECT NO.  
**CN L500383/L500444/L500306**  
 SANTA FE COUNTY  
 SHEET 2A OF 3

CITY OF SANTA FE  
 SECTION 1  
 TOWNSHIP 16 NORTH, RANGE 9 EAST



AGUA FRIA ROAD SURVEY & CONSTRUCTION CENTERLINE REFERENCE POINT TABLE (PROJECT GROUND COORDINATES)

POINT #	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
61	7+81.53	L24.89	103255.570	93891.570	#5 REBAR, CAP 11599
62	7+82.89	L44.19	103271.910	93881.210	#5 REBAR, CAP 11599
63	7+83.21	L49.00	103275.970	93878.610	CALCULATED POINT
64	7+96.77	L47.92	103283.220	93890.270	CALCULATED POINT
65	8+30.23	L26.30	103285.610	93930.250	3" ALUMINUM DISK IN CONCRETE
66	8+59.75	L47.92	103320.441	93941.608	CALCULATED POINT
67	8+59.75	L55.42	103326.529	93937.223	CALCULATED POINT
68	8-67.25	L55.42	103330.915	93943.311	CALCULATED POINT
69	8+41.57	L47.92	103309.820	93926.860	CALCULATED POINT
70	11+96.92	L36.82	103507.980	94222.057	CALCULATED POINT
71	8+67.25	L47.92	103324.830	93947.700	CALCULATED POINT
72	8+69.01	L47.92	103325.850	93949.120	CALCULATED POINT
73	8+81.34	L51.83	103336.240	93956.840	CALCULATED POINT
74	9+19.22	L45.97	103353.620	93991.010	CALCULATED POINT
75	9+29.36	L39.38	103354.200	94003.090	CALCULATED POINT
76	9+32.53	L38.77	103355.560	94006.010	CALCULATED POINT
77	9+99.08	L46.89	103401.040	94055.260	CALCULATED POINT
78	11+10.09	L60.43	103476.910	94137.420	CALCULATED POINT
79	11+02.65	L31.61	103449.177	94148.230	CALCULATED POINT
80	11+00.72	L24.16	103442.010	94151.020	#4 REBAR
81	11+97.54	L23.03	103497.670	94230.240	#4 REBAR, CAP 5217
82	11+97.70	L28.44	103502.161	94227.209	CALCULATED POINT
83	12+44.57	L26.88	103528.290	94266.160	CALCULATED POINT
84	12+44.82	L34.38	103534.520	94261.980	CALCULATED POINT
85	12+52.32	L34.13	103538.700	94268.210	CALCULATED POINT
86	12+52.07	L26.63	103532.470	94272.390	CALCULATED POINT
87	12+59.80	L26.37	103536.770	94278.800	CALCULATED POINT
88	12+71.93	L29.97	103546.790	94286.540	CALCULATED POINT
89	12+92.42	L29.29	103558.210	94303.570	CALCULATED POINT
90	13+04.29	L24.89	103561.580	94315.770	CALCULATED POINT
91	13+12.91	L24.60	103566.380	94322.940	CALCULATED POINT
92	13+12.26	L21.86	103563.780	94324.010	#4 REBAR, CAP 5217
93	13+69.08	L23.51	103598.120	94370.250	CALCULATED POINT
94	13+81.09	L27.51	103608.140	94377.990	CALCULATED POINT
95	14+01.10	L27.51	103619.280	94394.610	CALCULATED POINT
96	14+13.10	L23.51	103622.650	94406.810	CALCULATED POINT
97	14+57.86	L23.51	103647.584	94443.977	CALCULATED POINT
98	14+76.82	L24.28	103658.780	94459.300	CALCULATED POINT
99	14+76.60	L22.45	103657.140	94460.120	CALCULATED POINT
100	14+83.30	L21.34	103659.950	94466.310	CALCULATED POINT
101	14+76.33	R15.89	103625.150	94481.260	CALCULATED POINT
102	14+73.73	R15.98	103623.630	94479.150	CALCULATED POINT
103	14+68.41	R27.23	103611.320	94481.010	#3 REBAR
104	13+76.22	R30.69	103557.085	94406.371	CALCULATED POINT
105	13+75.80	R20.29	103565.495	94400.225	CALCULATED POINT
106	13+81.05	R19.02	103569.473	94403.878	CALCULATED POINT
107	13+91.30	R18.68	103575.460	94412.200	CALCULATED POINT
108	13+91.50	R16.48	103577.400	94411.150	#4 REBAR
109	13+00.13	R20.15	103522.590	94338.730	METAL DETECTOR SOUNDING IN ASPHALT
110	12+99.45	R24.49	103518.680	94340.710	REBAR WITH ILLEGIBLE ALUMINUM CAP
111	12+99.53	R22.27	103520.530	94339.480	CALCULATED POINT
112	12+95.01	R24.46	103516.110	94337.090	#4 REBAR, CAP 14733
113	11+18.81	R24.46	103413.120	94194.120	CALCULATED POINT
114	10+18.52	R24.46	103354.500	94112.740	CALCULATED POINT
115	9+18.23	R24.47	103295.880	94031.370	CALCULATED POINT
116	8+21.12	R24.43	103239.180	93952.660	CORNER OF STUCCO WALL
117	11+97.95	L36.56	103508.891	94222.663	CALCULATED POINT
118	12+94.33	L39.91	103567.943	94298.909	CALCULATED POINT
119	13+14.44	L31.07	103572.524	94320.399	CALCULATED POINT
120	13+59.66	L30.83	103598.955	94358.346	CALCULATED POINT
121	13+80.71	L45.25	103622.658	94367.793	CALCULATED POINT
122	14+02.70	L42.72	103632.806	94387.469	CALCULATED POINT
123	14+05.81	L31.90	103625.550	94396.071	CALCULATED POINT
124	14+26.31	L23.51	103630.004	94417.773	CALCULATED POINT
157	12+27.39	L1451.26	104674.011	93419.705	#4 REBAR WITH CAP "DSI CONTROL"
388	6+87.62	R34.43	103151.743	93852.324	#4 REBAR WITH CAP "DSI CONTROL"



Legend

- △ = Control monument as noted
- = Point Found as noted
- = Calculated R/W or property corner
- = Calculated TCP or property corner
- [#] = Point Table number identifier, Agua Fria Rd. construction centerline.
- x— = Fence Line
- = Bollard Fence Line
- PUE/UE = PUBLIC UTILITY EASEMENT
- [Hatched] = AGUA FRIA ST.(ST. RTE. #588) BY PRESCRIPTIVE RIGHTS
- [Hatched] = COUNTY RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER PLAT BK. 743 PG. 21-25.
- [Hatched] = CITY RIGHT OF WAY, S. MEADOWS RD. SECURED UNDER C.I.P. No.826

**Santa Fe Engineering Consultants, LLC**  
 Civil and Traffic Engineering  
 Construction Management  
 Land Development  
 1599 St. Francis Drive, Suite B  
 Santa Fe, N.M. 87505  
 (505) 982-2845 Fax (505) 982-2641

Right of Way Map Prepared By: DAWSON SURVEYS, INC.

JOB No. DS#10299			
4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

**DAWSON SURVEYS INC.**  
 PROFESSIONAL LAND SURVEYORS  
 7505 MALLARD WAY, SUITE A  
 SANTA FE, N.M. 87507

FOR OWNERS NAME AND AREAS FOR PARCEL NUMBERS SHOWN SEE SHEET 1A OF 3.

CITY OF SANTA FE  
 SECTION 1  
 TOWNSHIP 16 NORTH, RANGE 9 EAST

SURVEY NOTES

- Bearings are New Mexico Coordinate System grid basis, NAD 83 datum, Transverse Mercator Projection, Central Zone, New Mexico and tied to monuments as shown. Tie from DAWSON2 between SF-37 and SANTAIR: S45°08'47"W 24145.51'
- All distances shown are horizontal ground distances. All stationing is related to ground unless stated.
- Local Project ground coordinates are State Plane Coordinates (US SURVEY FOOT) scaled to ground using the DAWSON2 low distortion projection for Santa Fe. combined project ground to grid factor: 0.999583883
- Existing corner monumentation found and accepted by this survey is described hereon and tagged with a brass washer stamped pls "13986"
- Basis of stationing for construction centerline derived from construction plans entitled C.I.P. 853C/CN L 500444. All stations and offsets are survey/construction C.
- Bearings and distances labeled in "(parenthesis)" are from record documents listed hereon and are shown where such information differs from data compiled by this survey.
- Distances shown opposite stationing are at right angles or radial to construction centerline. See Point Identification Table for further information.
- This survey is based on found monumentation from previous local surveys and or those surveys as referenced hereon.
- Survey centerline and construction centerline are co-incident.
- For Right-of-Way encroachments refer to separate exhibits prepared for C.I.P. 853C/ CN L500444.
- For build notes and other construction information, refer to construction plans (C.I.P. 853C/CN L500444)

SURVEYOR'S CERTIFICATE

I CERTIFY THAT I AM A REGISTERED PROFESSIONAL SURVEYOR AND THAT THESE R/W MAPS ARE AN INTERIM PRODUCT OF PROJECT DESIGN DEVELOPMENT AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED UNDER MY DIRECTION IN DEC, 2019. CONFORMANCE WITH THE STATE OF NEW MEXICO'S MINIMUM STANDARDS FOR RIGHT OF WAY SURVEYING WILL OCCUR FOLLOWING ACTUAL ACQUISITION OF RIGHT OF WAY REQUIRED BY PROJECT NUMBER L500383/L500444/L500306/C.I.P. 853C.

*Diego J. Wisnerop*  
 DIEGO J. WISNEROP N.M.P.L.S. NO. 13986 11/27/2021  
 DAWSON SURVEYS, INC.  
 2502 B CAMINO ENTRADA, SANTA FE, N.M. 87507

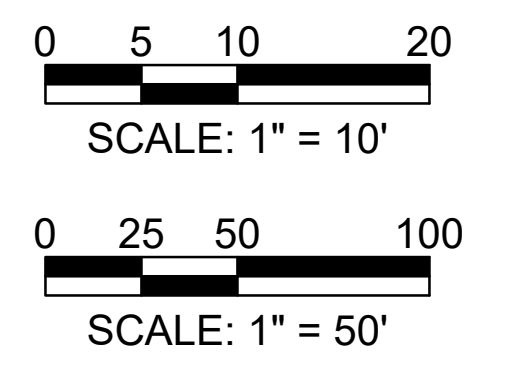
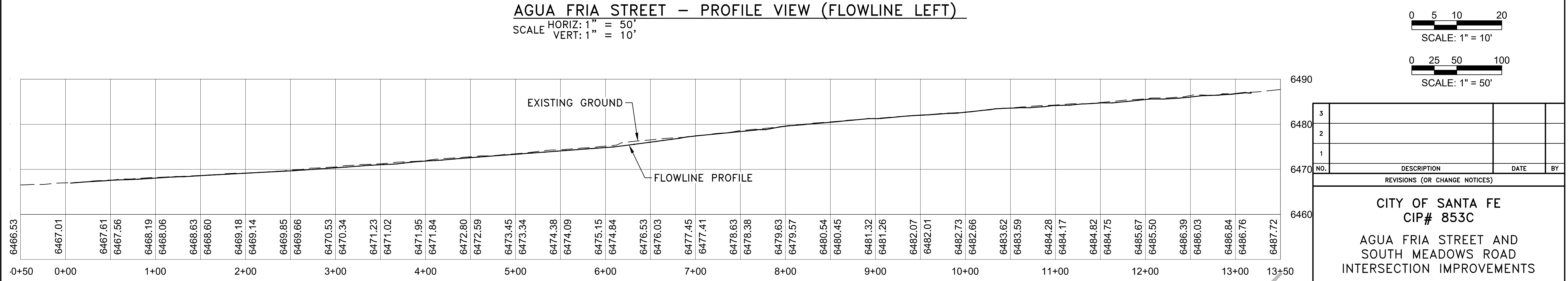
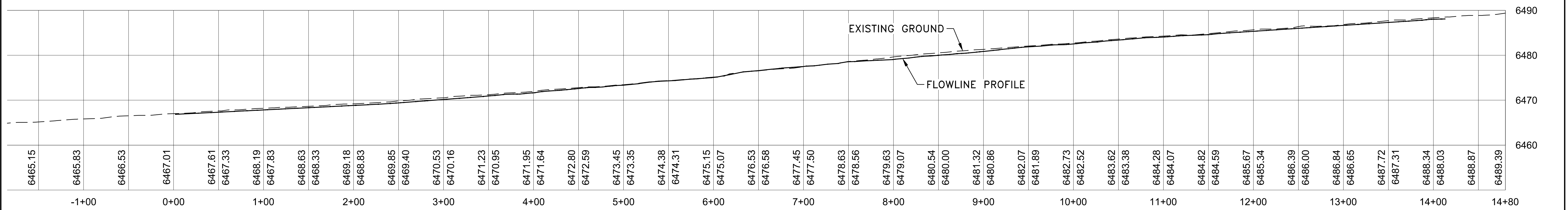
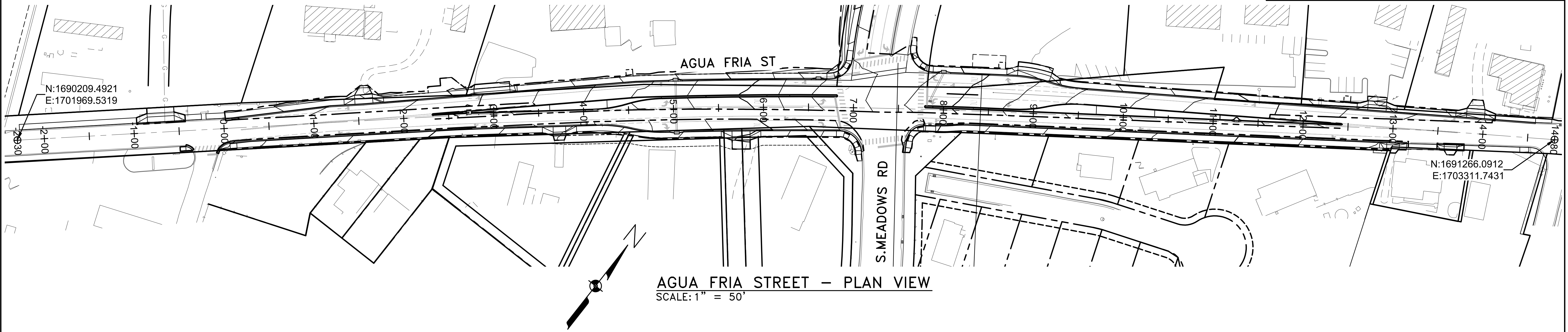


FINAL MAP

DATE: _____  
 PCN L500383/L500444/  
 L500306

NEW MEXICO DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY MAP**  
 CITY OF SANTA FE PROJECT NO.  
 853C  
 NEW MEXICO PROJECT NO.  
 CN L500383/L500444/L500306  
 SANTA FE COUNTY  
 SCALE 1" = 10' SHEET 3A OF 3





NO.	DESCRIPTION	DATE	BY
3			
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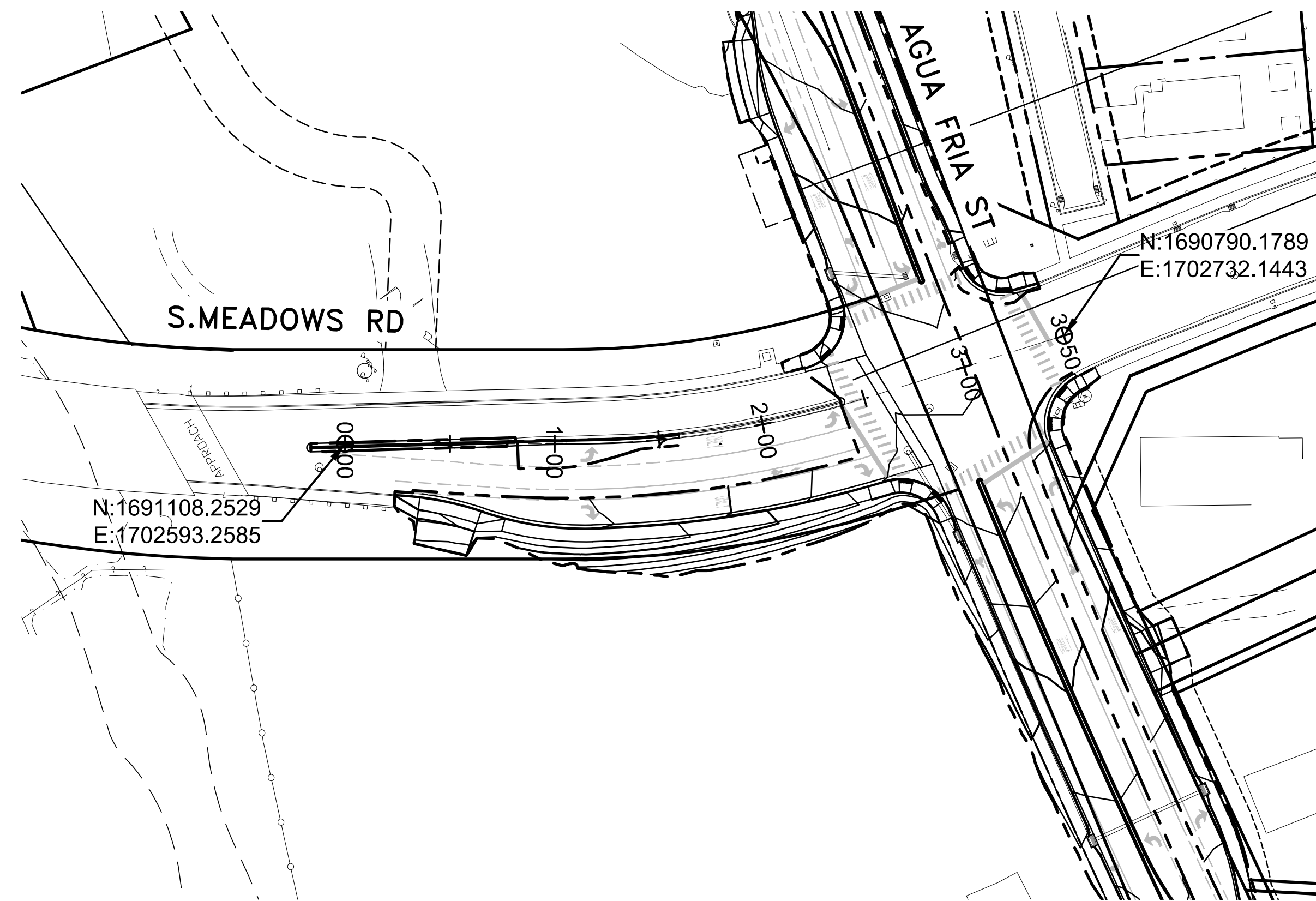
**CITY OF SANTA FE**  
**CIP# 853C**

**AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS**

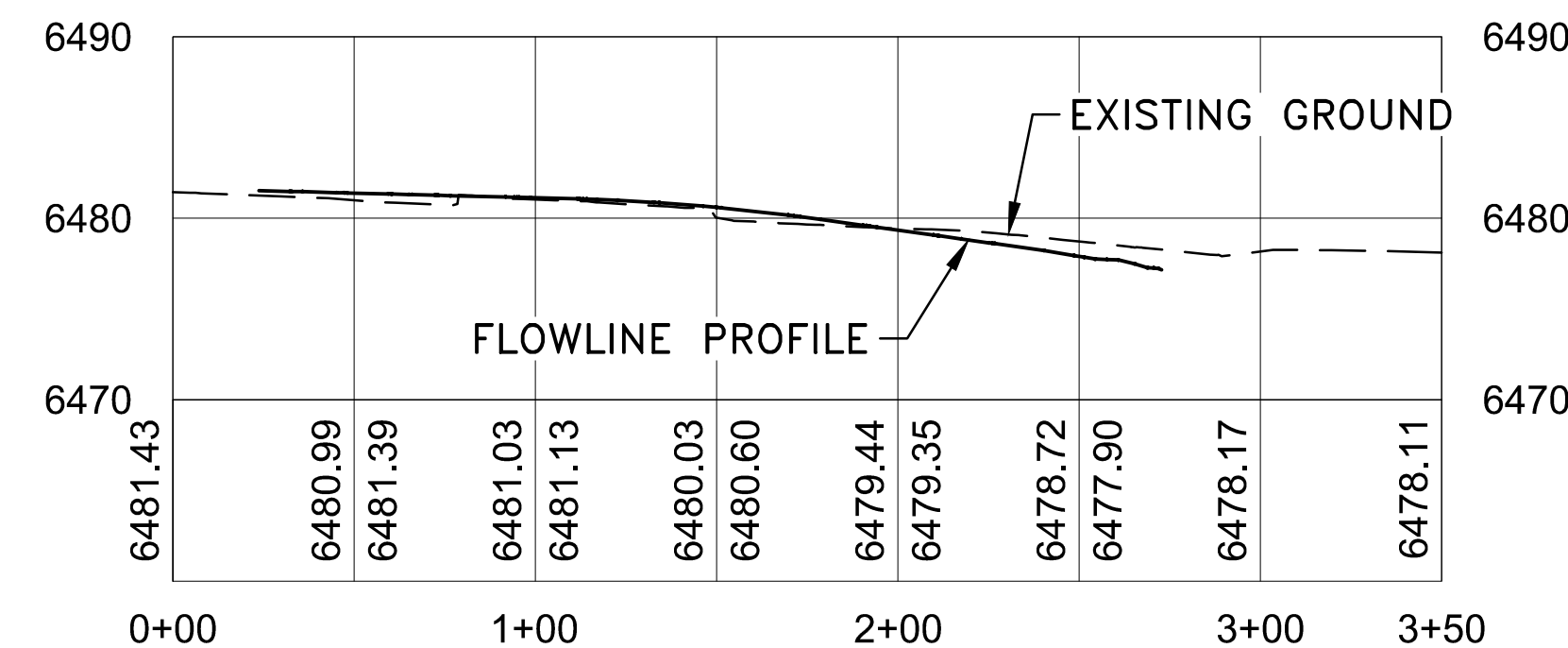
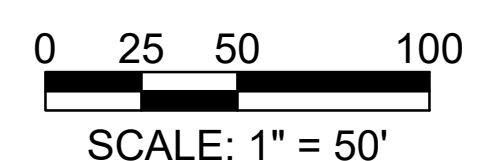
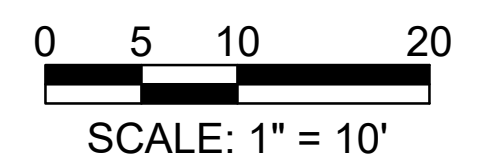
100% PS&E SUBMITTAL  
NOT FOR CONSTRUCTION

ROADWAY PLAN AND PROFILE -  
AGUA FRIA STREET

DRAFT



**SOUTH MEADOWS ROAD – PLAN VIEW**  
SCALE: 1" = 50'



**SOUTH MEADOWS ROAD – PROFILE VIEW (FLOWLINE RIGHT)**  
SCALE: HORIZ: 1" = 50'  
VERT: 1" = 10'

NO.	DESCRIPTION	DATE	BY
3			
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CITY OF SANTA FE  
CIP# 853C

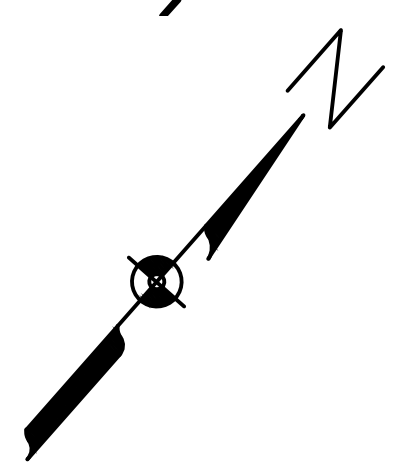
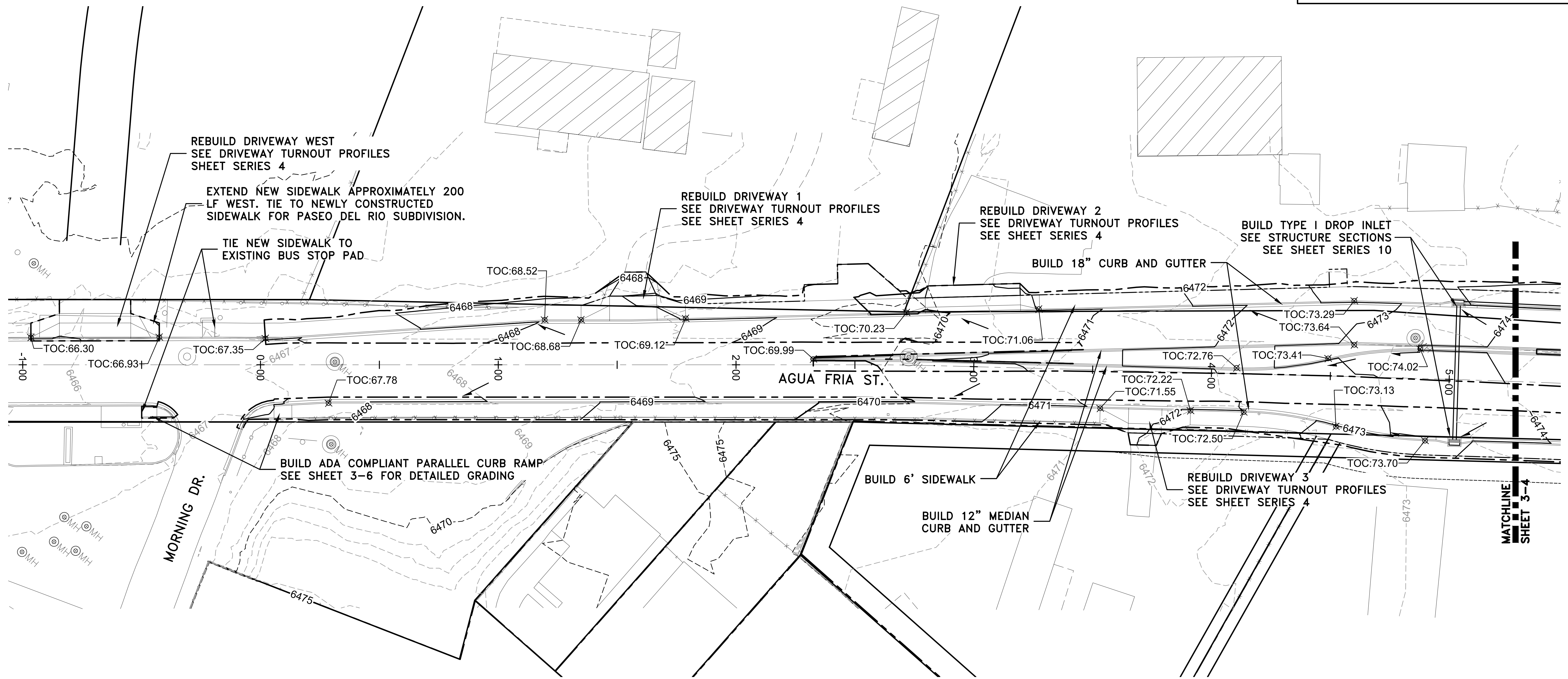
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SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

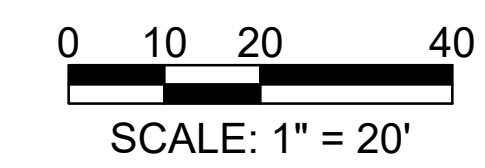
ROADWAY PLAN AND PROFILE –  
SOUTH MEADOWS ROAD

DRAFT





**GRADING AND DRAINAGE PLAN**  
SCALE: 1" = 20'



**LEGEND**

	FINISHED CONTOUR
	EXISTING CONTOUR
	DIRECTION OF FLOW
TOC:	TOP OF CURB ELEVATION
TOA:	TOP OF ASPHALT ELEVATION
INV:	INVERT / FLOWLINE ELEVATION
TOR/BOR:	TOP / BOTTOM OF RAMP ELEVATION

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

**CITY OF SANTA FE**  
**CIP# 853C**

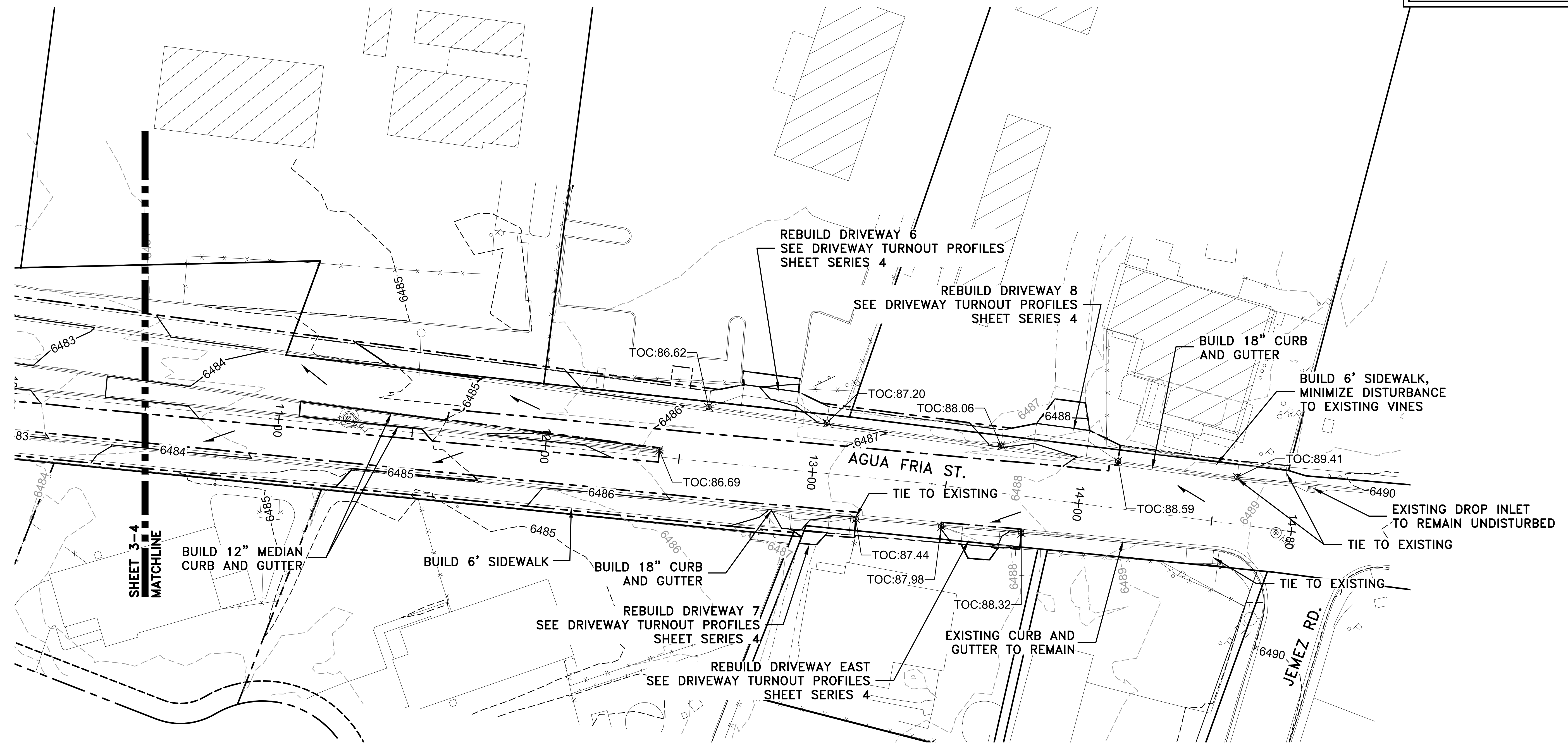
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

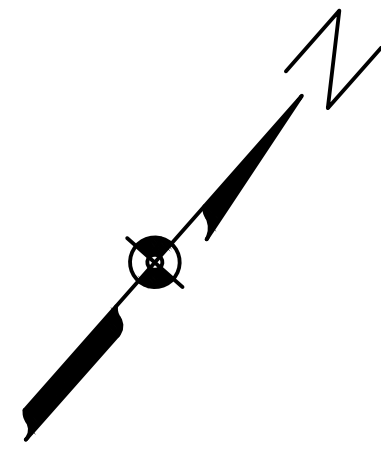
GRADING AND DRAINAGE PLAN

DRAFT

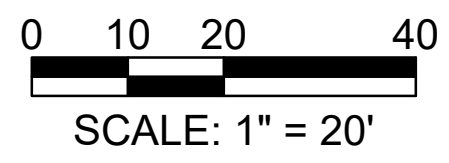




SHEET 3-4  
 MATCHLINE



**GRADING AND DRAINAGE PLAN - CONT'D**  
 SCALE: 1" = 20'



**LEGEND**

	FINISHED CONTOUR
	EXISTING CONTOUR
	DIRECTION OF FLOW
TOC:	TOP OF CURB ELEVATION
TOA:	TOP OF ASPHALT ELEVATION
INV:	INVERT / FLOWLINE ELEVATION
TOR/BOR:	TOP / BOTTOM OF RAMP ELEVATION

3			
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NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE  
 CIP# 853C

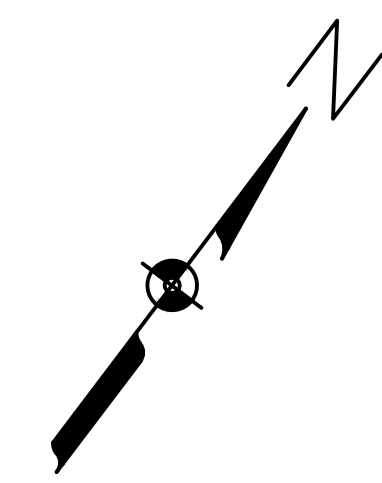
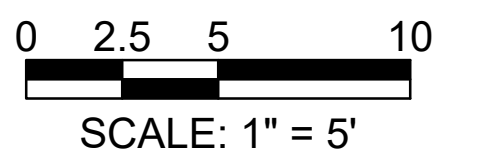
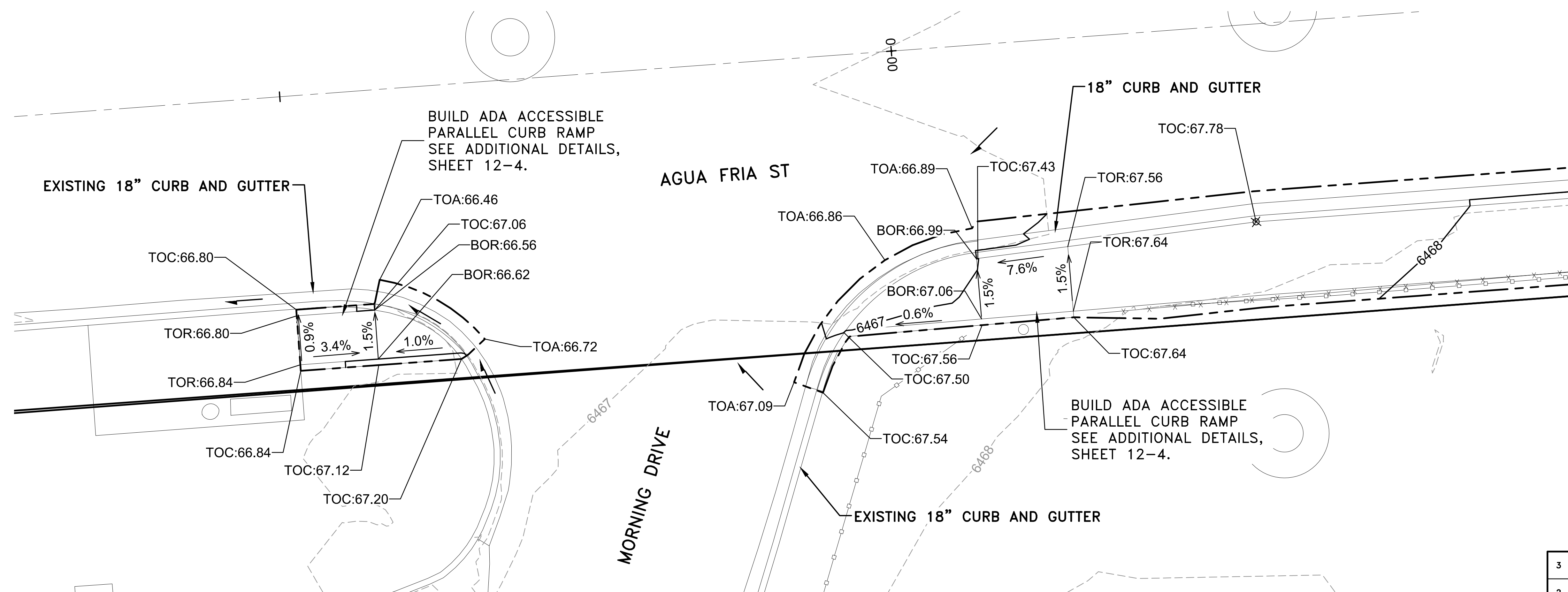
AGUA FRIA STREET AND  
 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

GRADING AND DRAINAGE PLAN  
 - CONT'D

DRAFT





**DETAILED CURB RAMP GRADING**  
 SCALE: 1" = 5'

**LEGEND**

	FINISHED CONTOUR
	EXISTING CONTOUR
	DIRECTION OF FLOW
TOC:	TOP OF CURB ELEVATION
TOA:	TOP OF ASPHALT ELEVATION
INV:	INVERT / FLOWLINE ELEVATION
TOR/BOR:	TOP / BOTTOM OF RAMP ELEVATION

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

**CITY OF SANTA FE**  
**CIP# 853C**

AGUA FRIA STREET AND  
 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS

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 NOT FOR  
 CONSTRUCTION

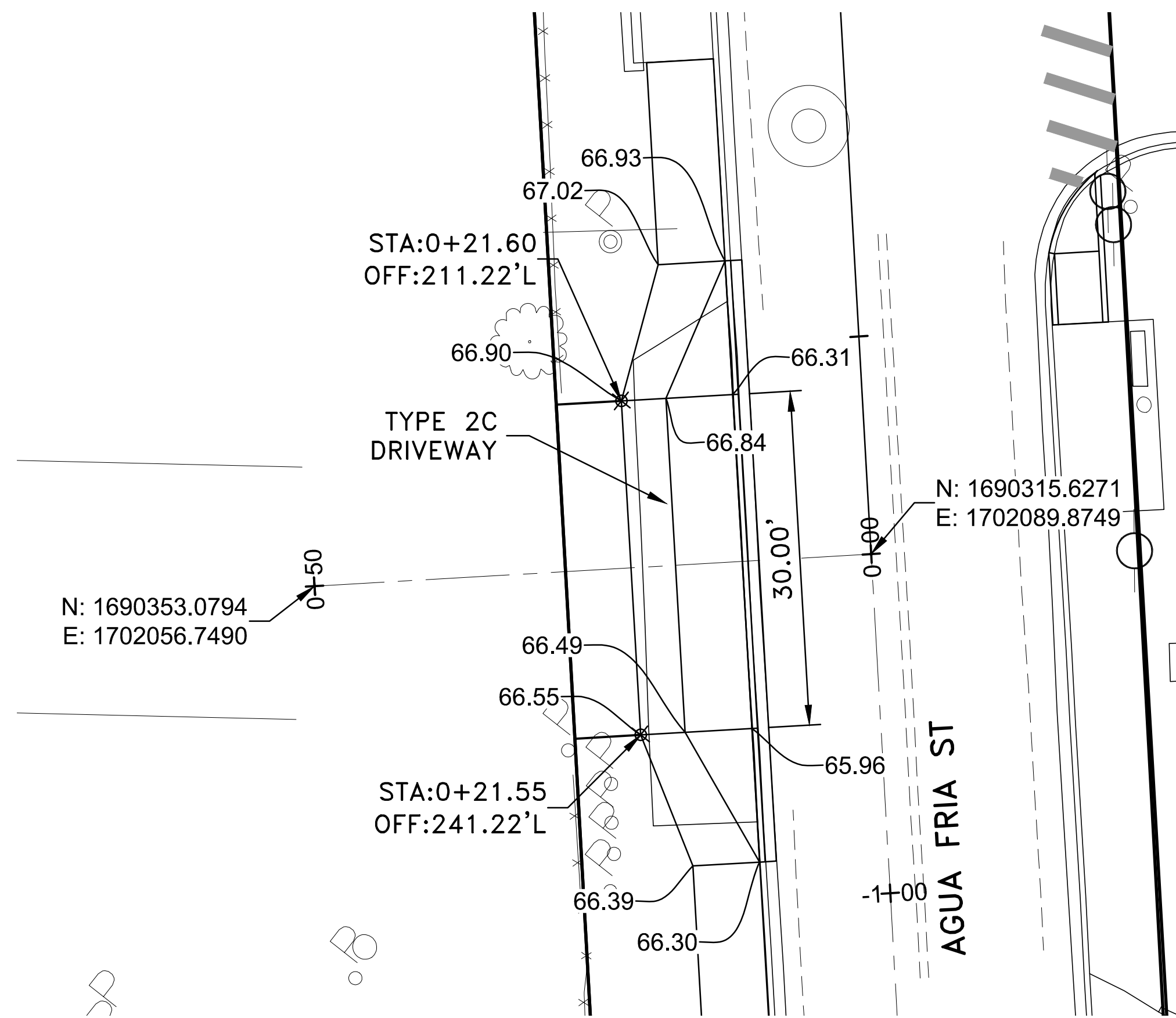
DETAILED CURB RAMP GRADING

SCALE: 1" = 5' SHEET 3-6

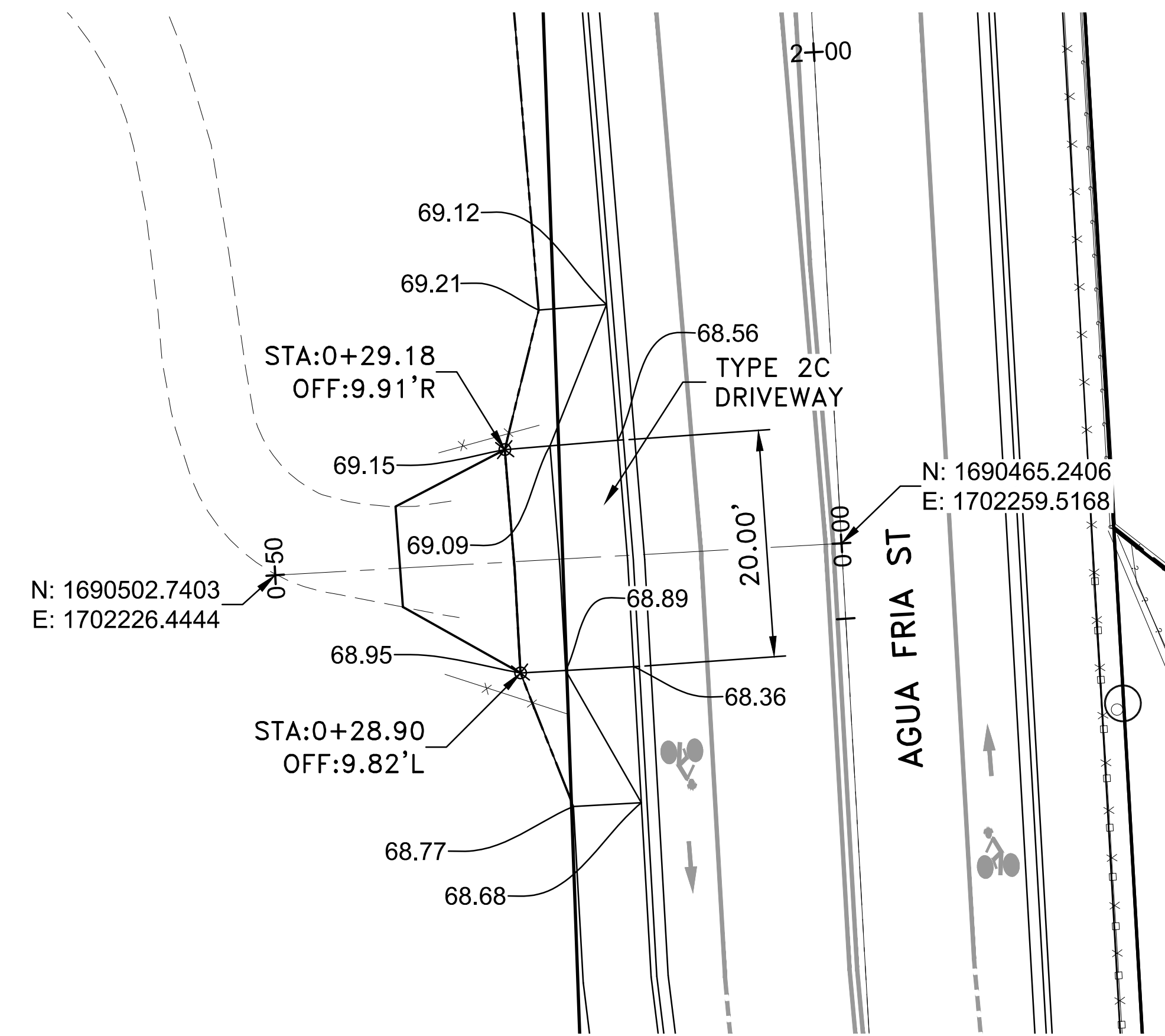
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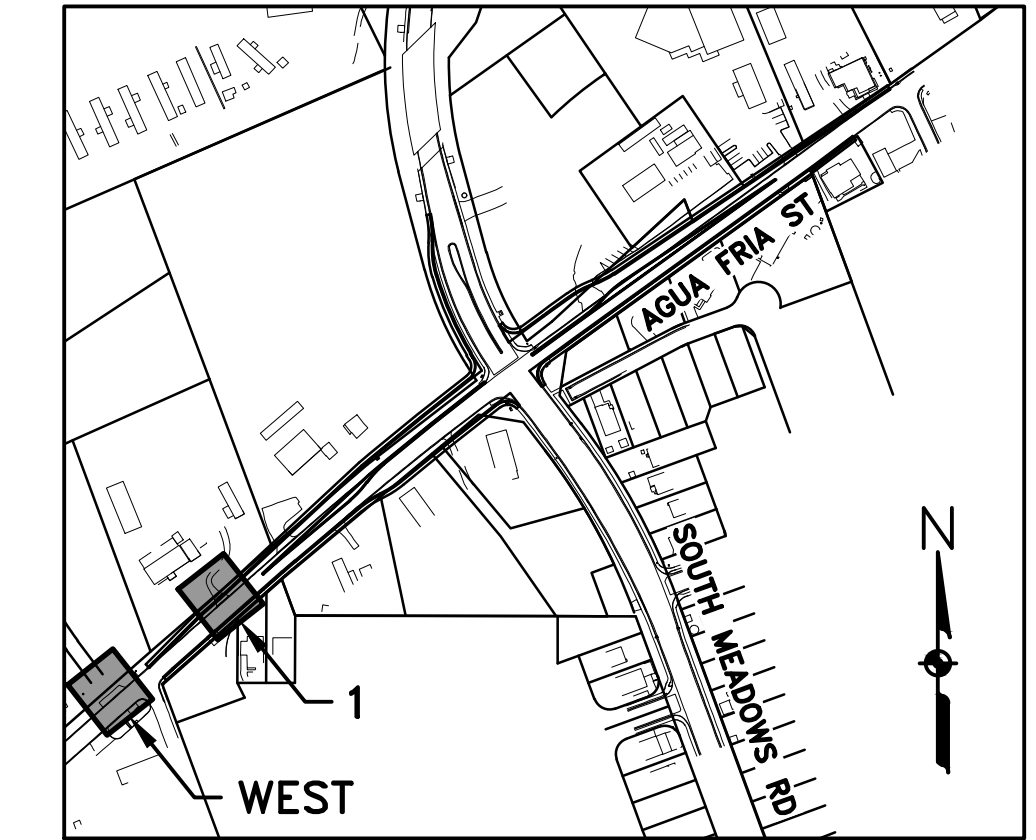




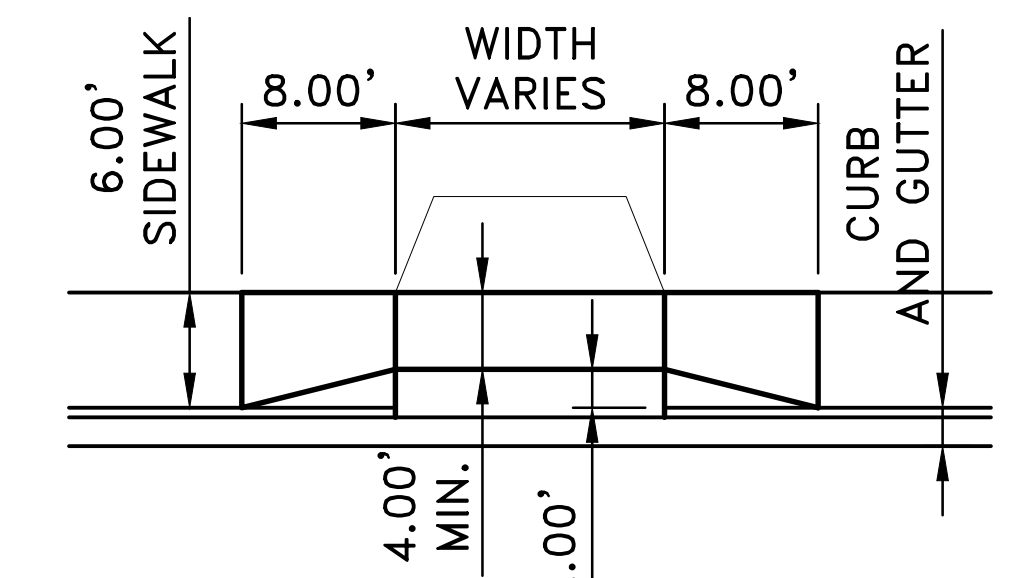
**DRIVEWAY WEST - PLAN VIEW**  
SCALE: 1" = 10'



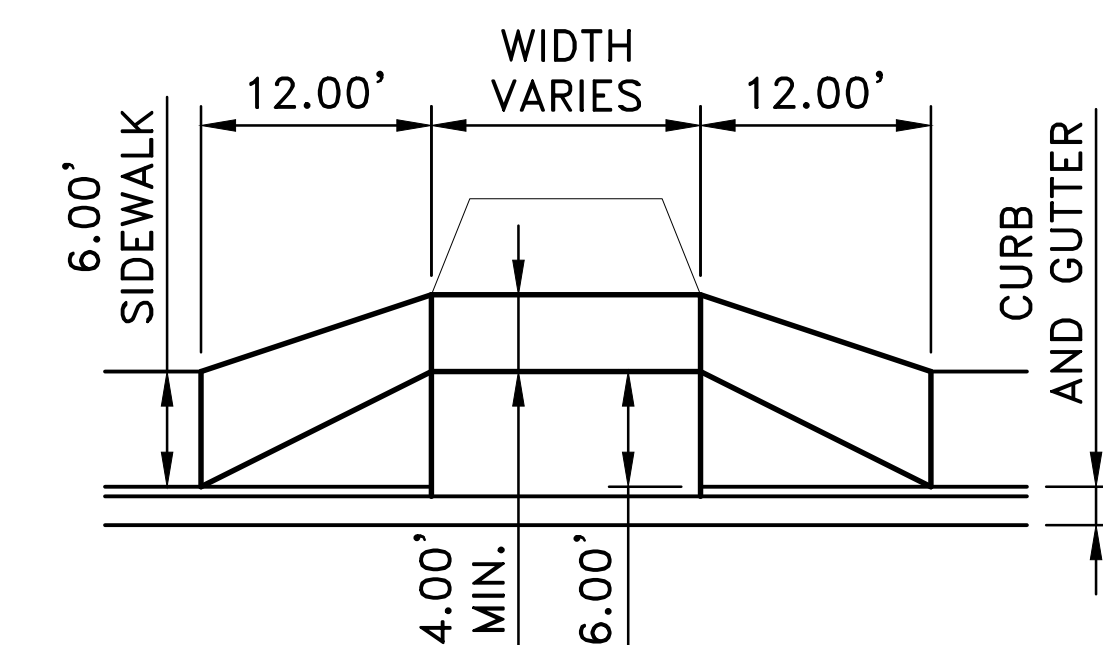
**DRIVEWAY 1 - PLAN VIEW**  
SCALE: 1" = 10'



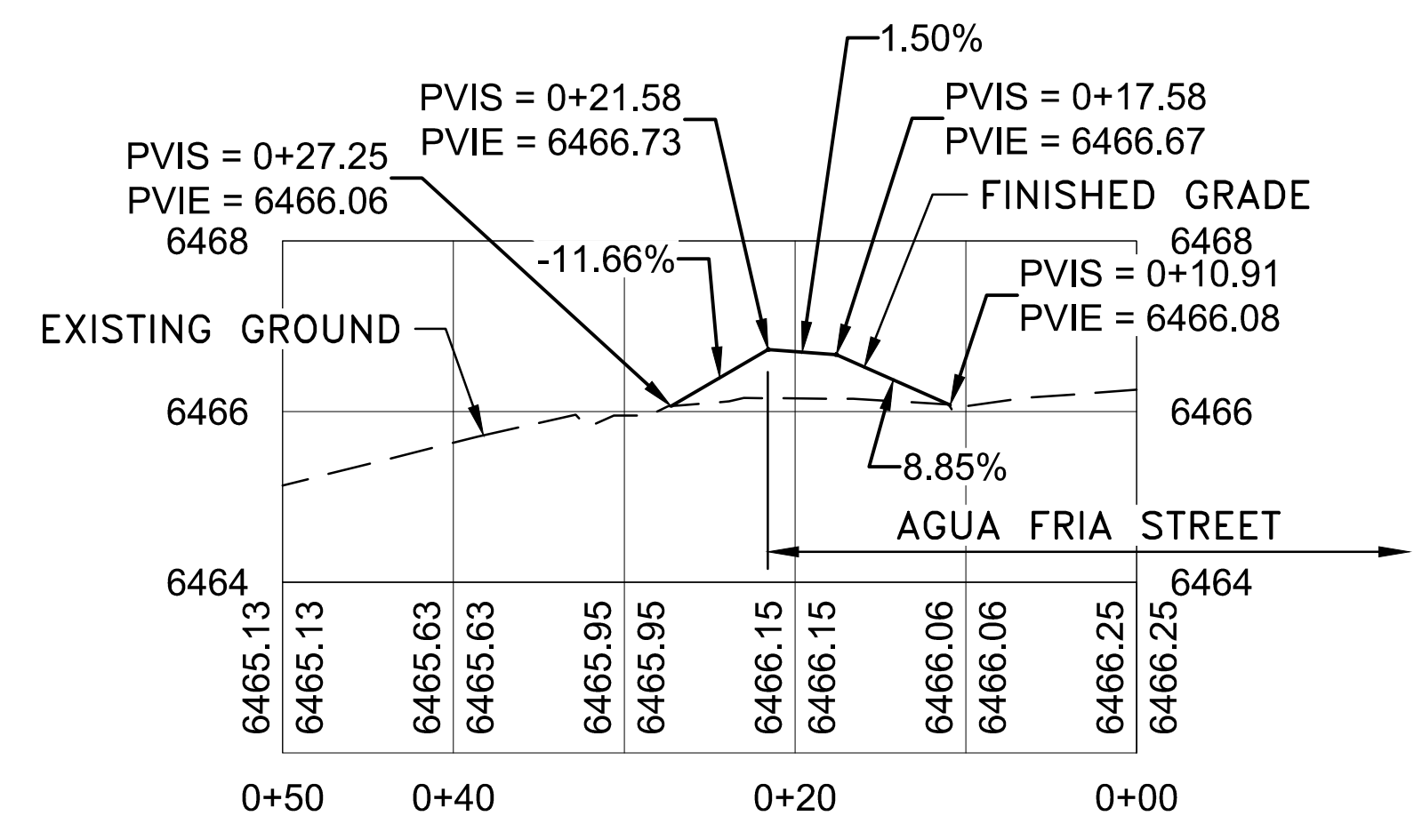
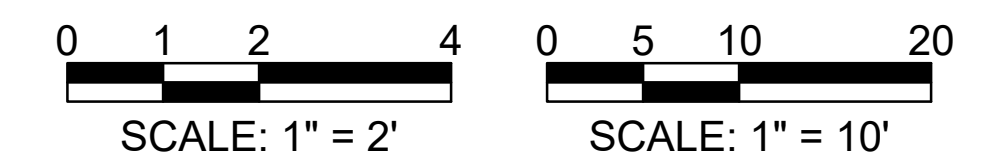
**KEY MAP**  
SCALE: 1" = 300'



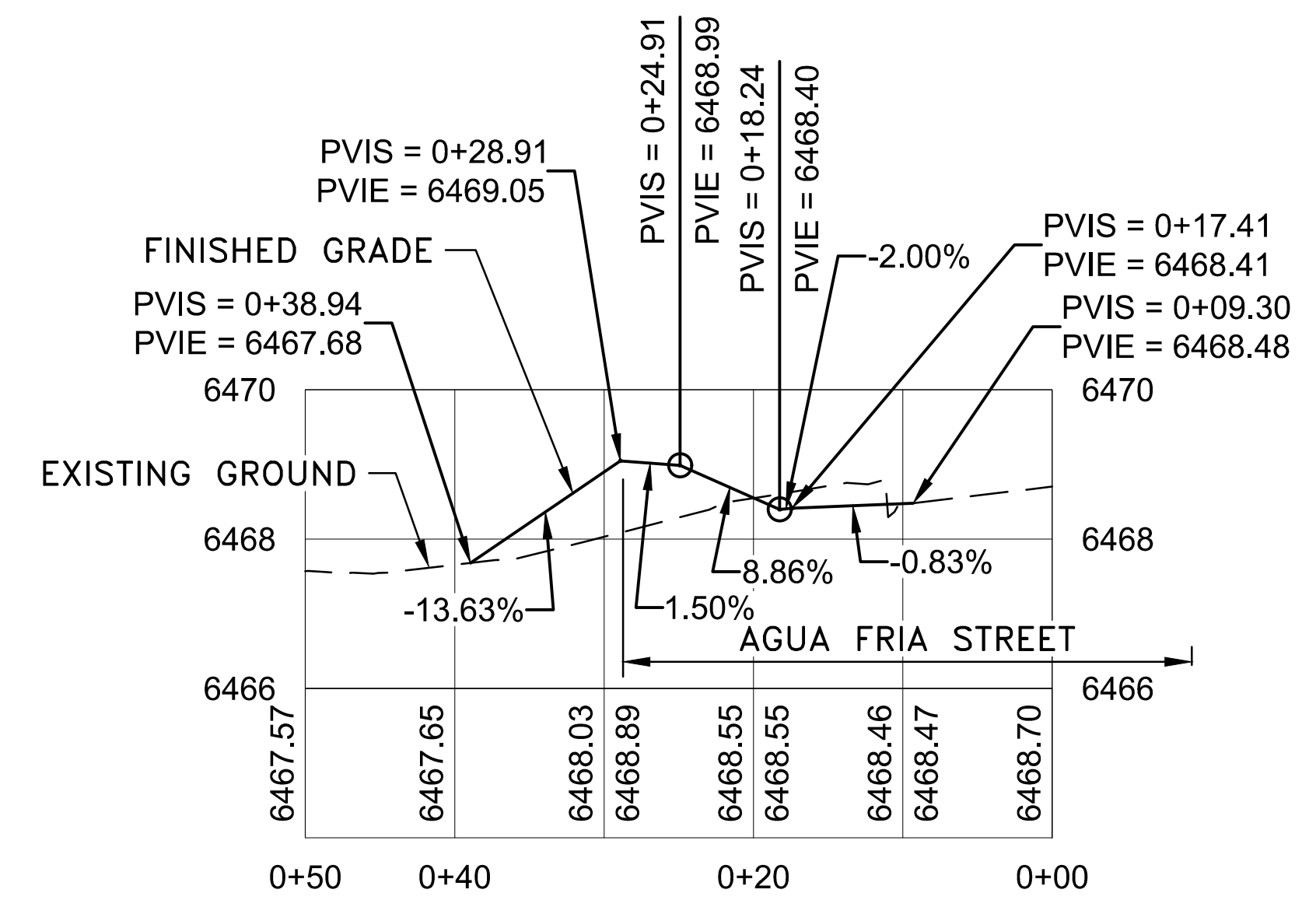
**TYPICAL 2B DRIVEWAY**  
SCALE: 1" = 10'



**TYPICAL 2C DRIVEWAY**  
SCALE: 1" = 10'



**DRIVEWAY WEST - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 2'



**DRIVEWAY 1 - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 2'

NO.	DESCRIPTION	DATE	BY
3			
2			
1			

CITY OF SANTA FE  
CIP# 853C

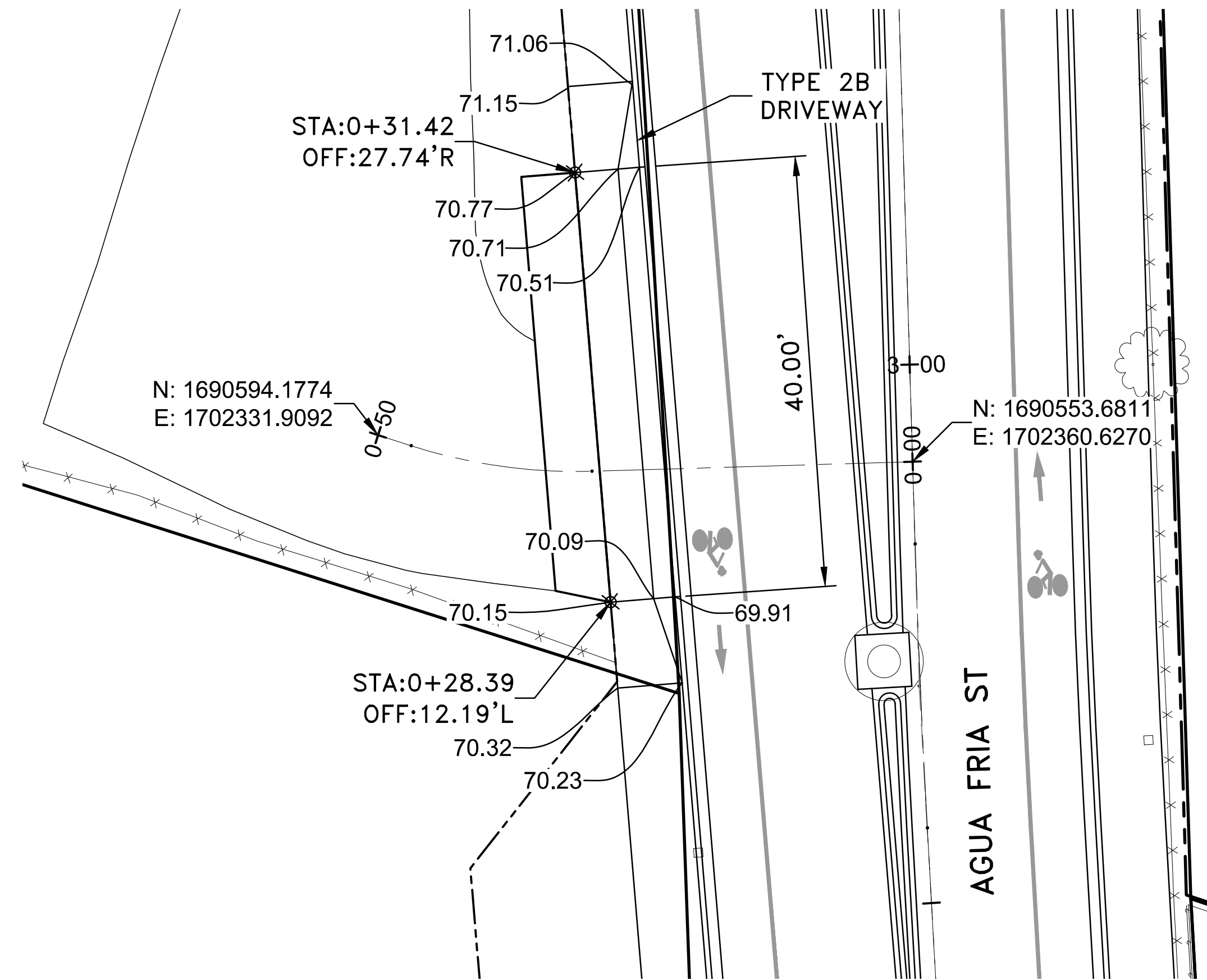
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

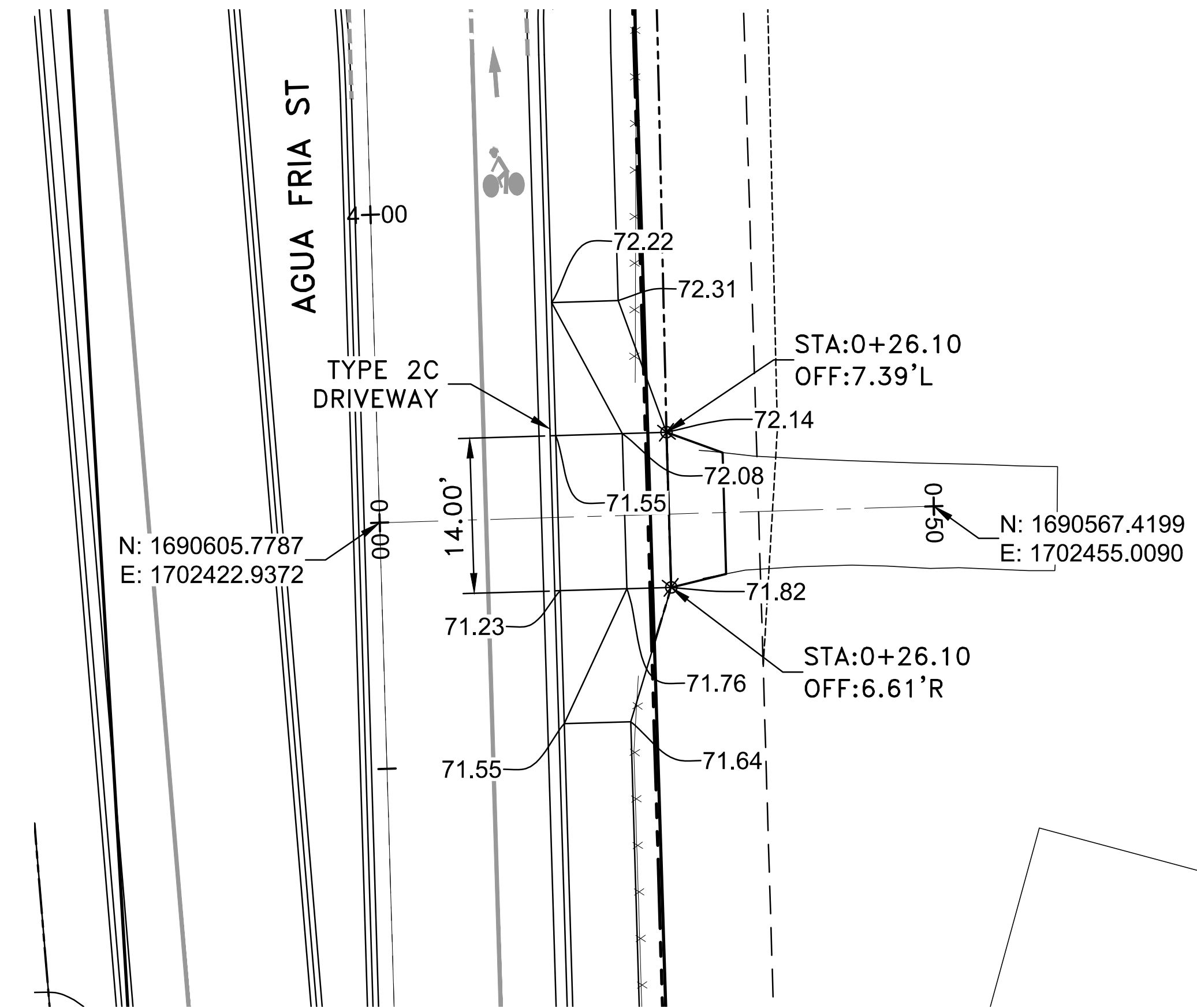
DRIVEWAY TURNOUTS

DRAFT

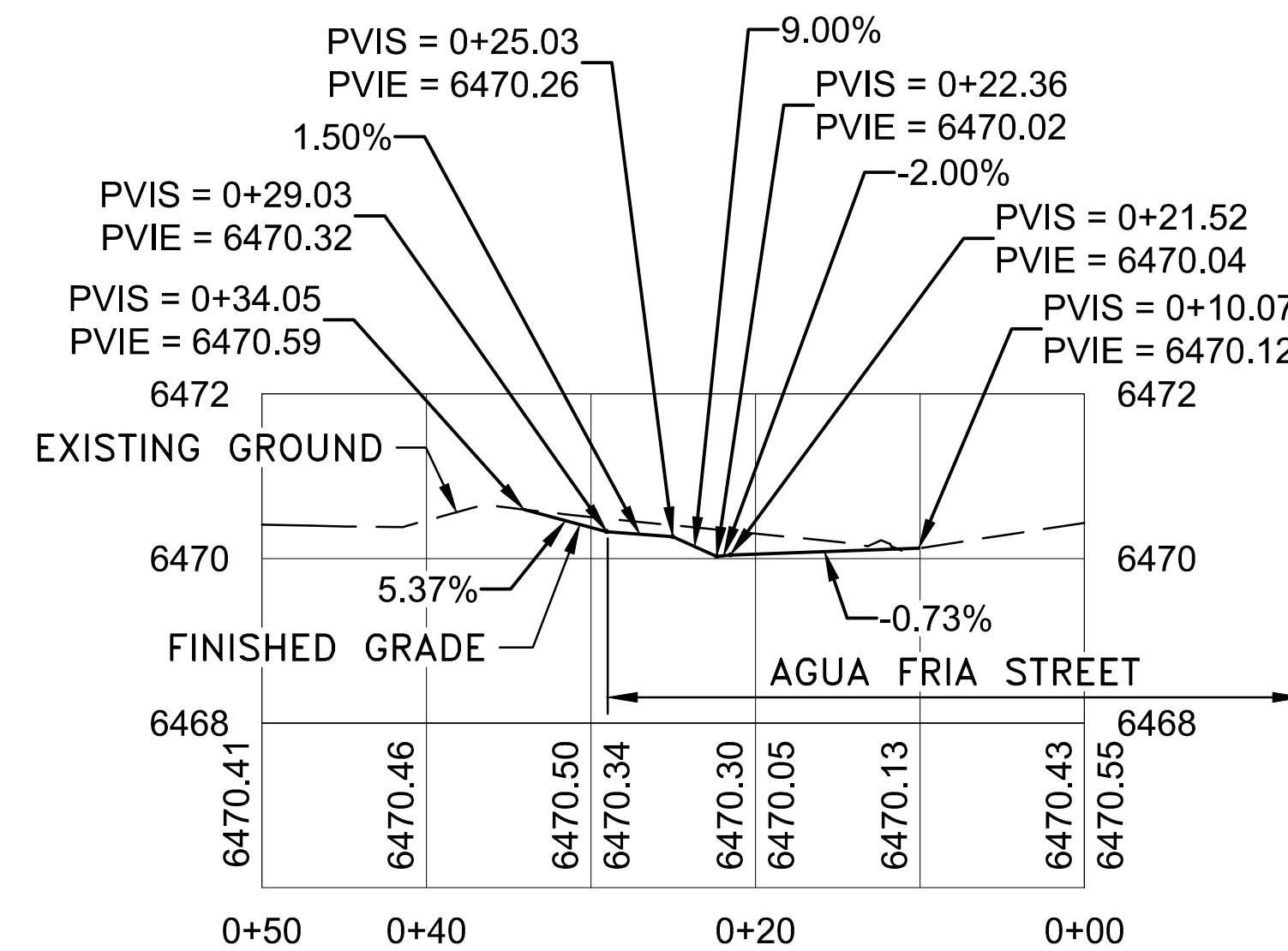




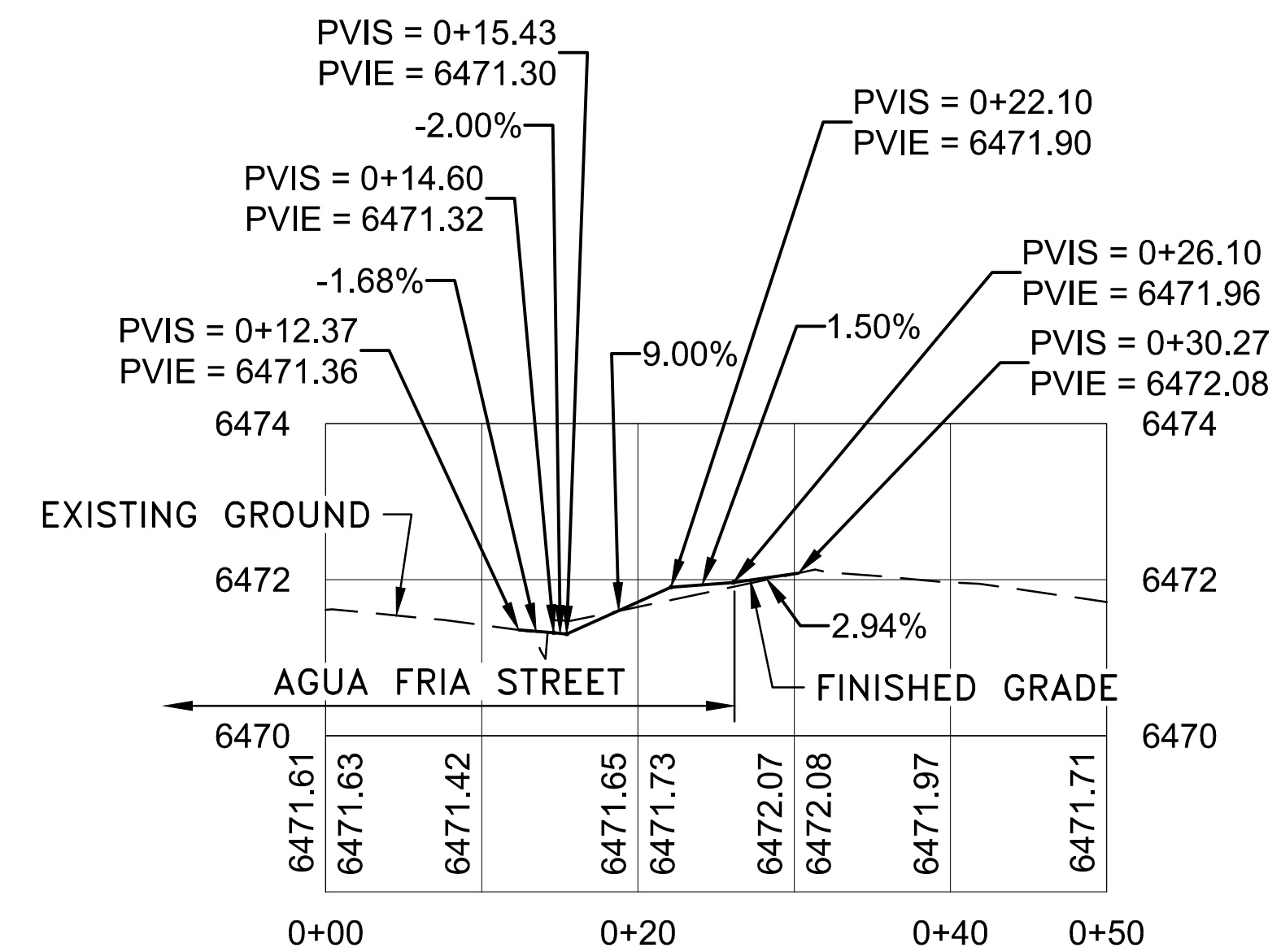
**DRIVEWAY 2 - PLAN VIEW**  
SCALE: 1" = 10'



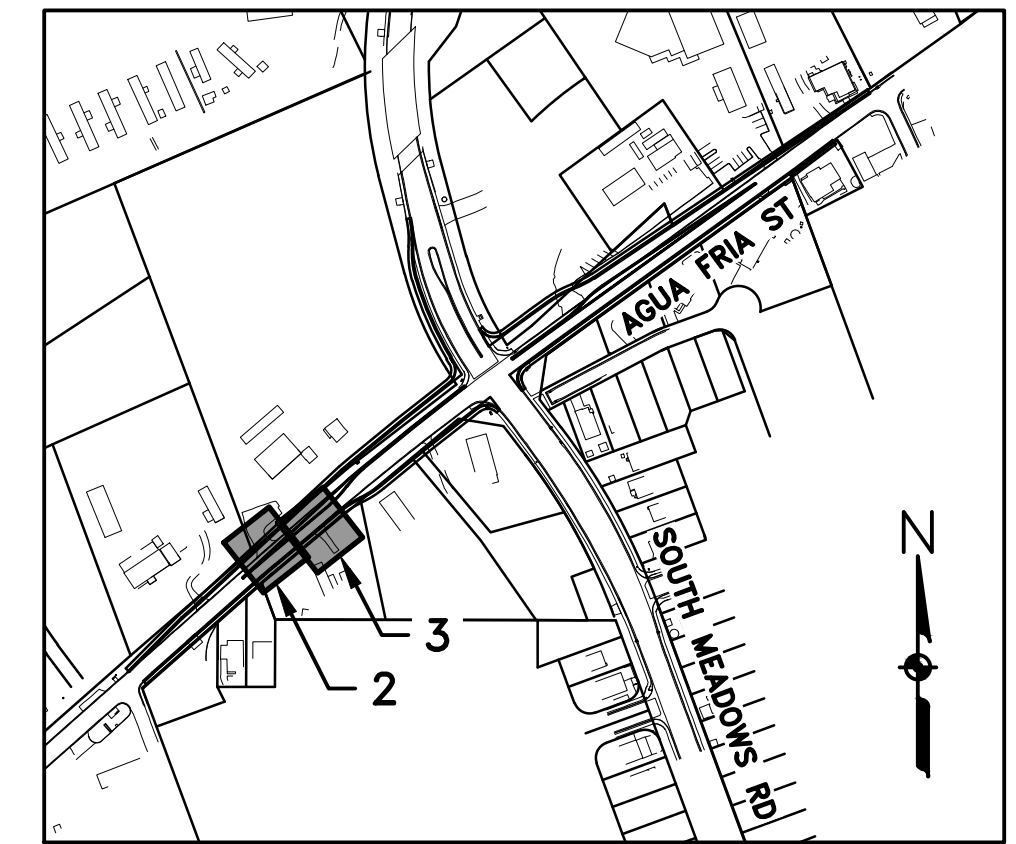
**DRIVEWAY 3 - PLAN VIEW**  
SCALE: 1" = 10'



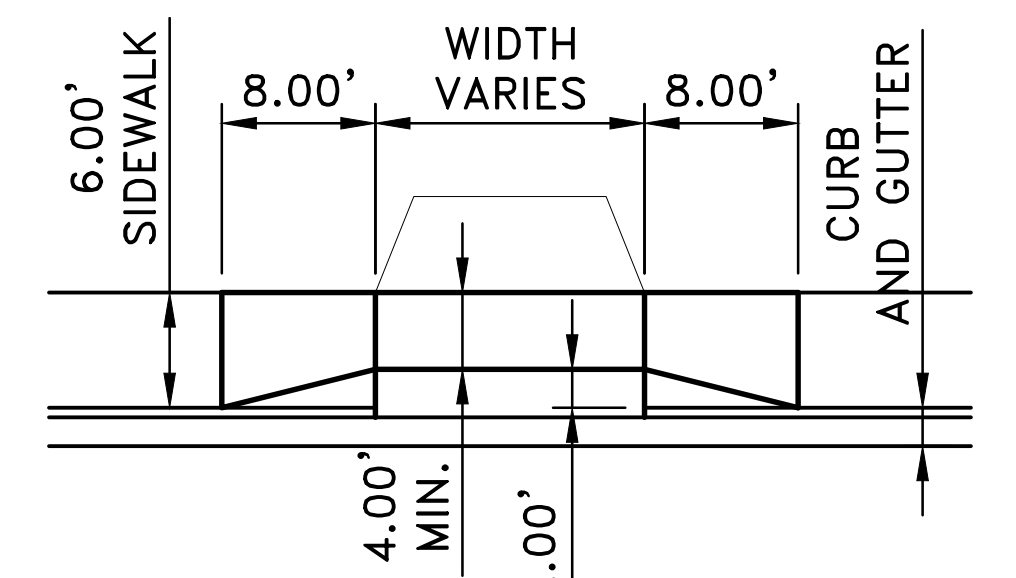
**DRIVEWAY 2 - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 2'



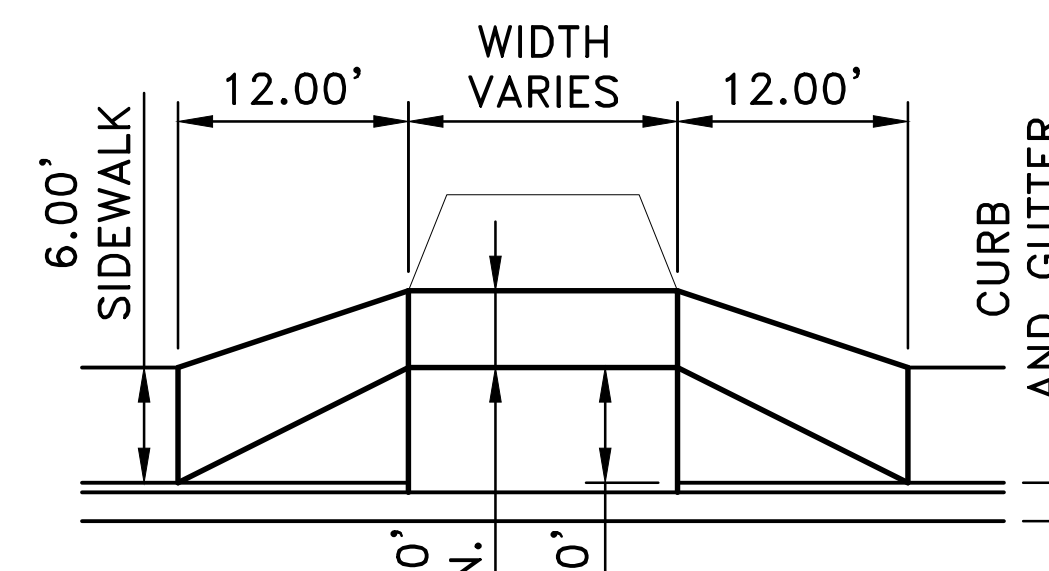
**DRIVEWAY 3 - PROFILE VIEW**  
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VERT: 1" = 2'



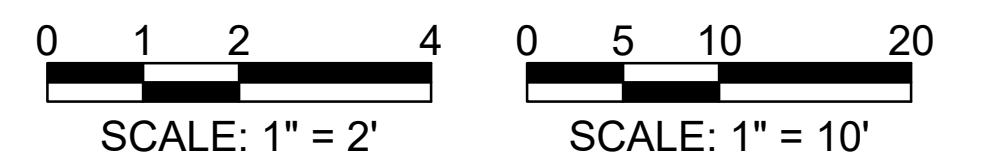
**KEY MAP**  
SCALE: 1" = 300'



**TYPICAL 2B DRIVEWAY**  
SCALE: 1" = 10'



**TYPICAL 2C DRIVEWAY**  
SCALE: 1" = 10'



NO.	DESCRIPTION	DATE	BY
3			
2			
1			

CITY OF SANTA FE  
CIP# 853C

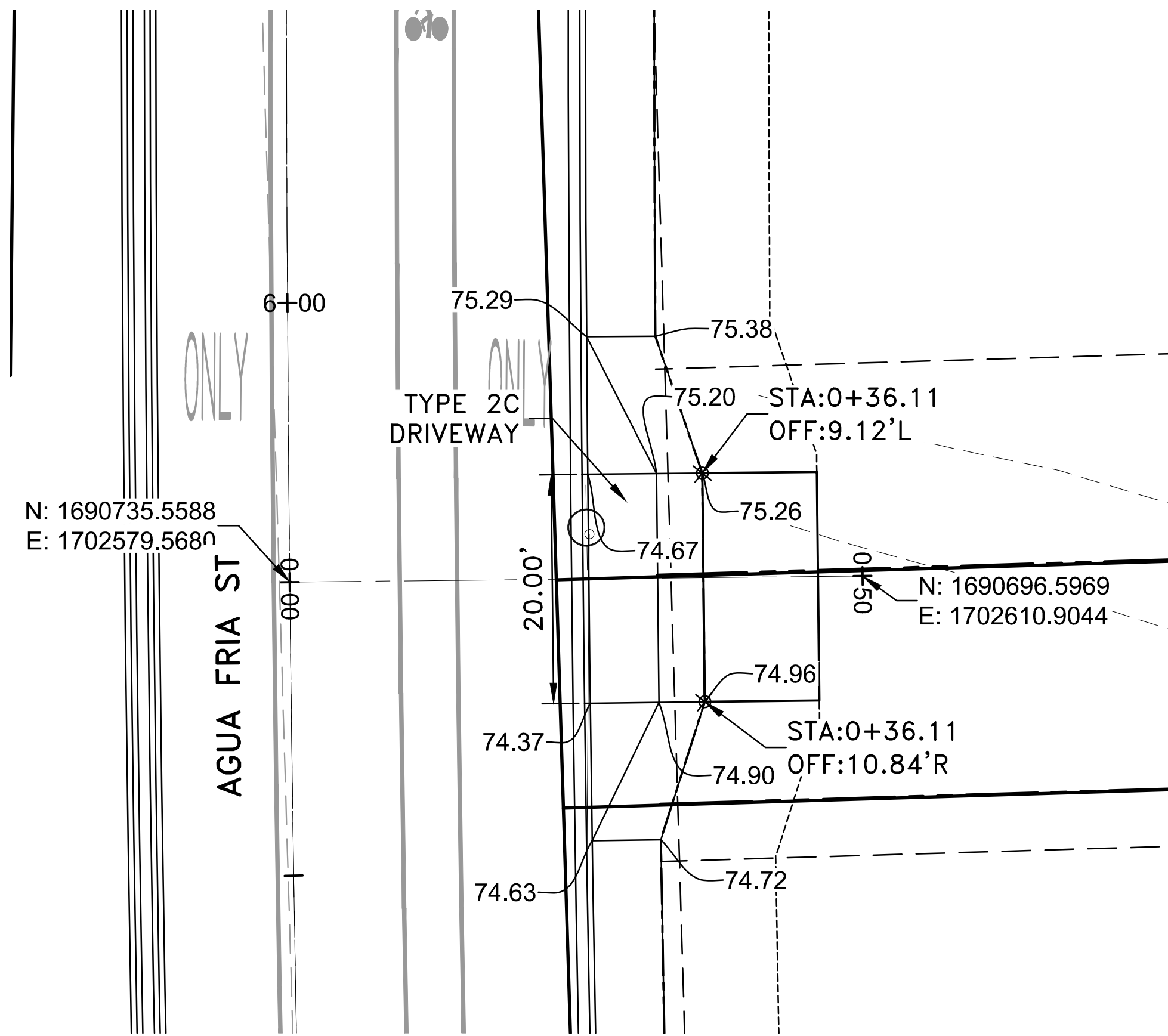
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
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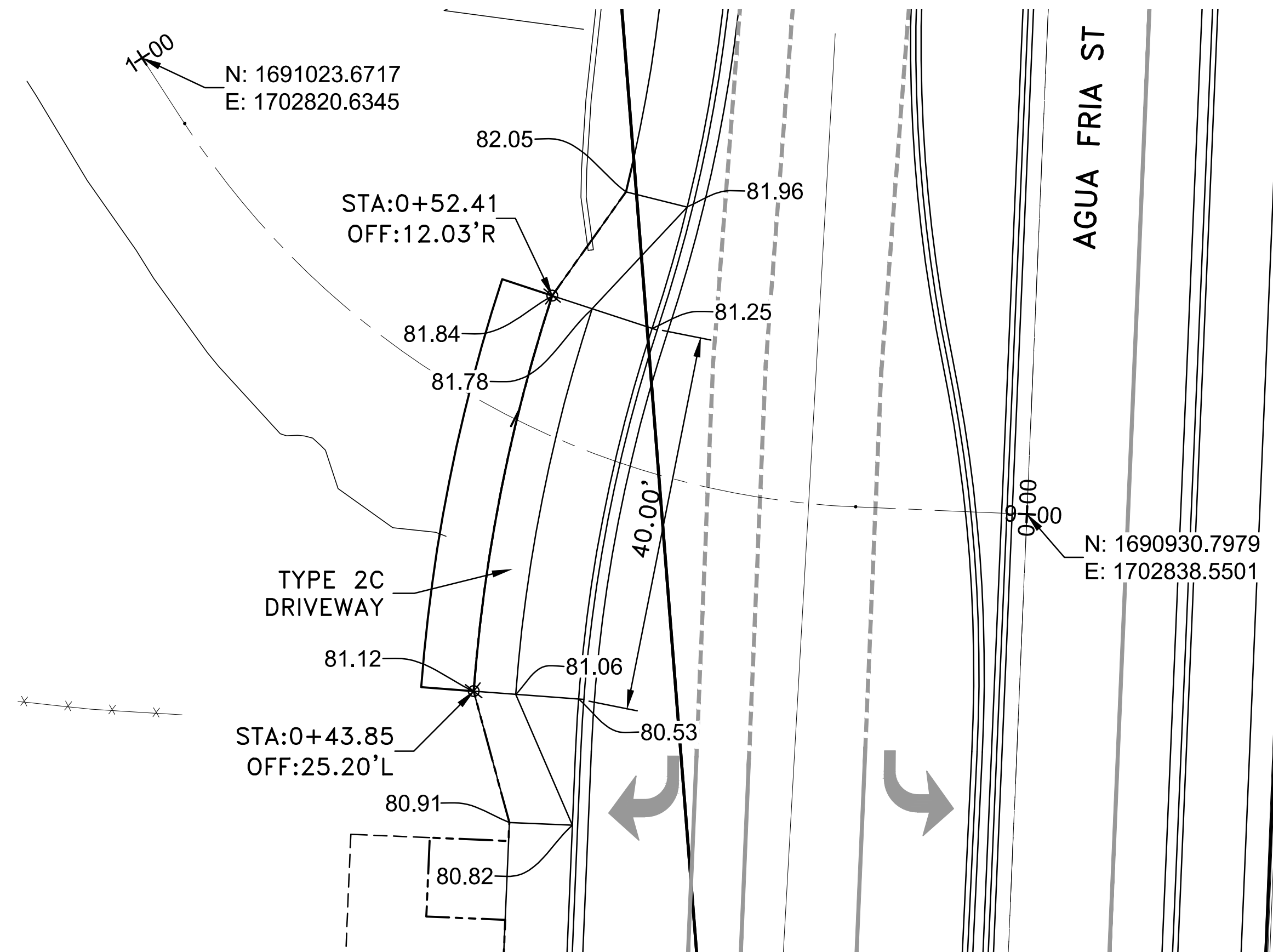
DRIVEWAY TURNOUTS (CONT'D)

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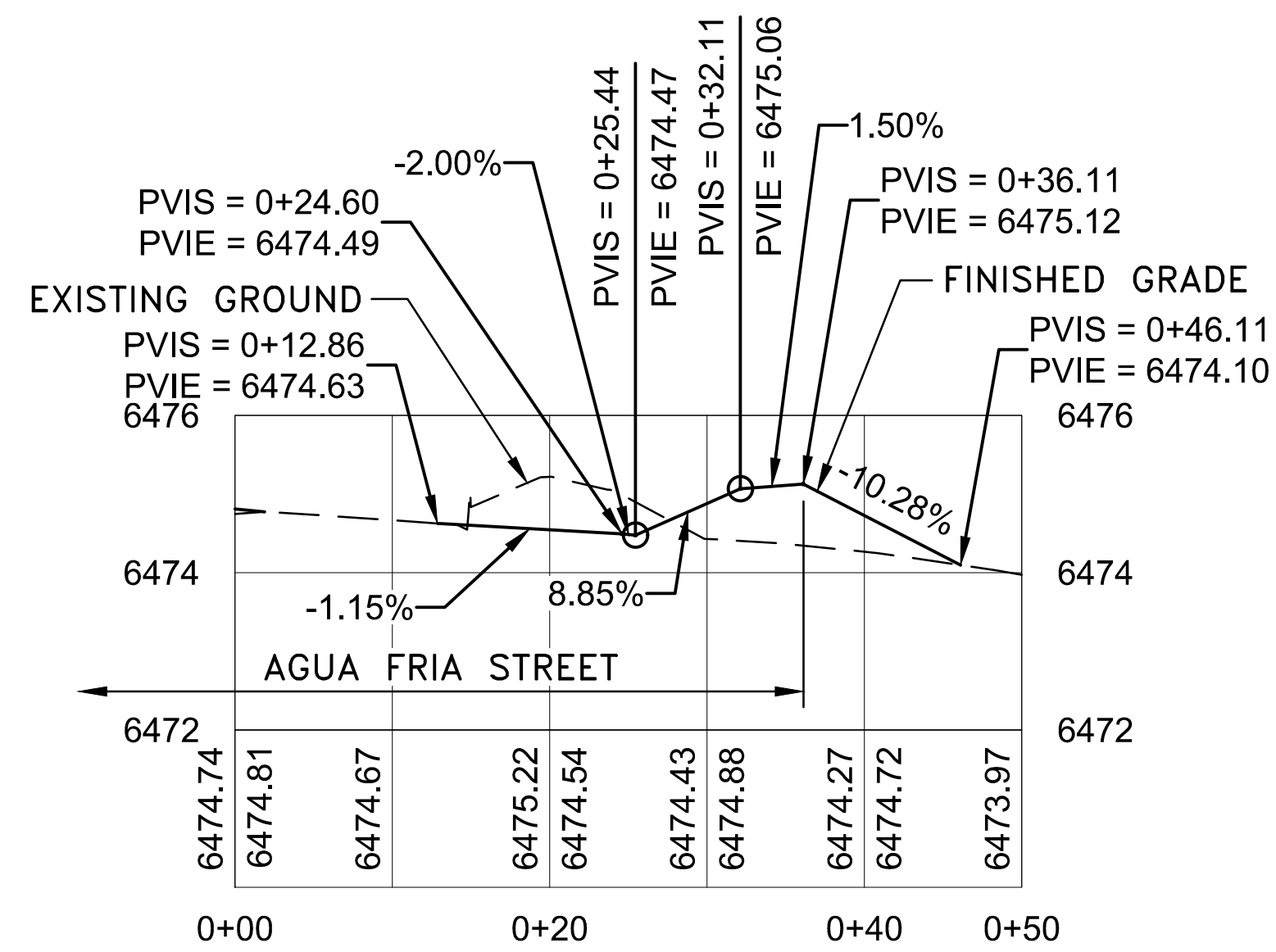




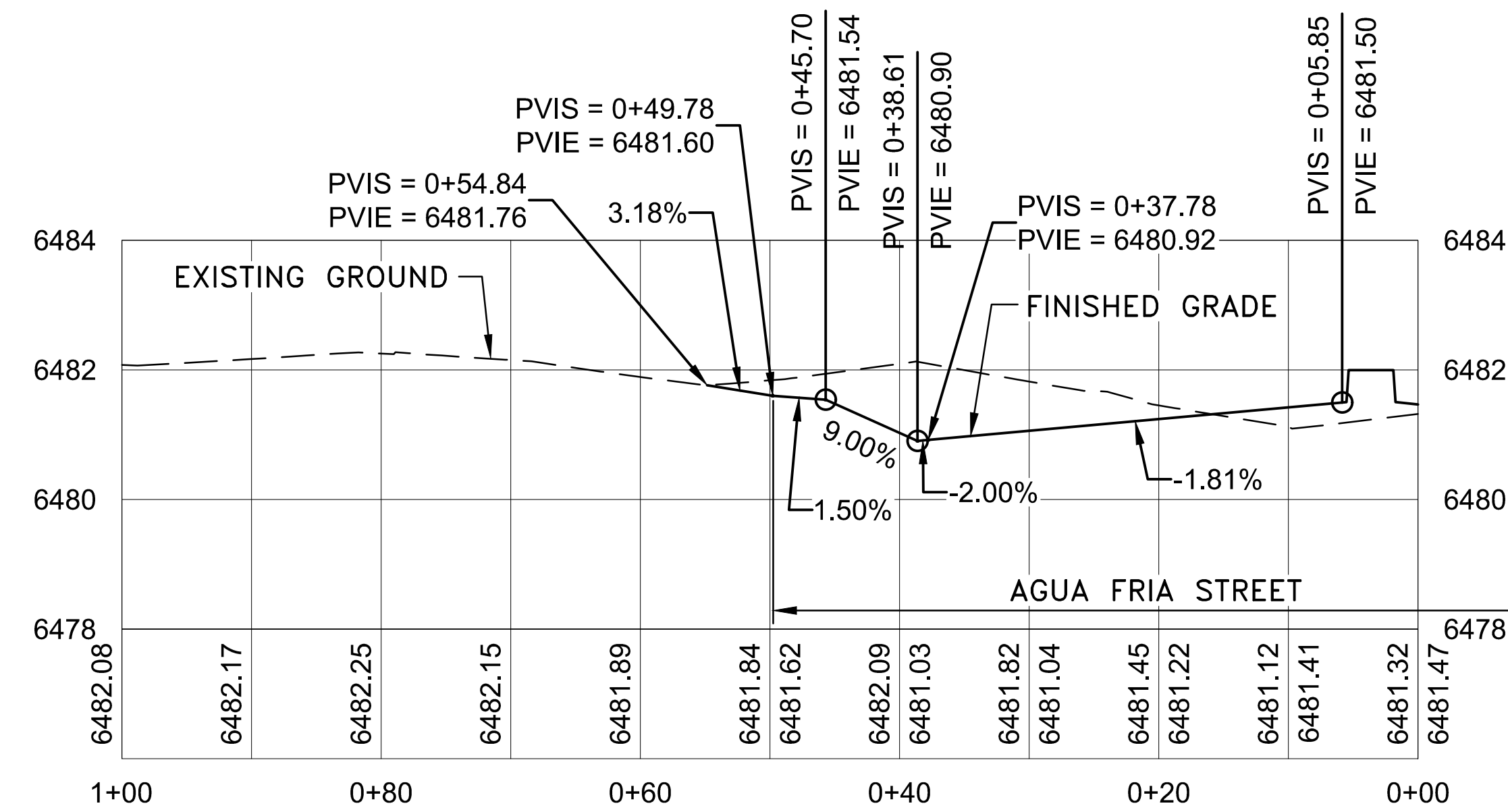
**DRIVEWAY 4 - PLAN VIEW**  
SCALE: 1" = 10'



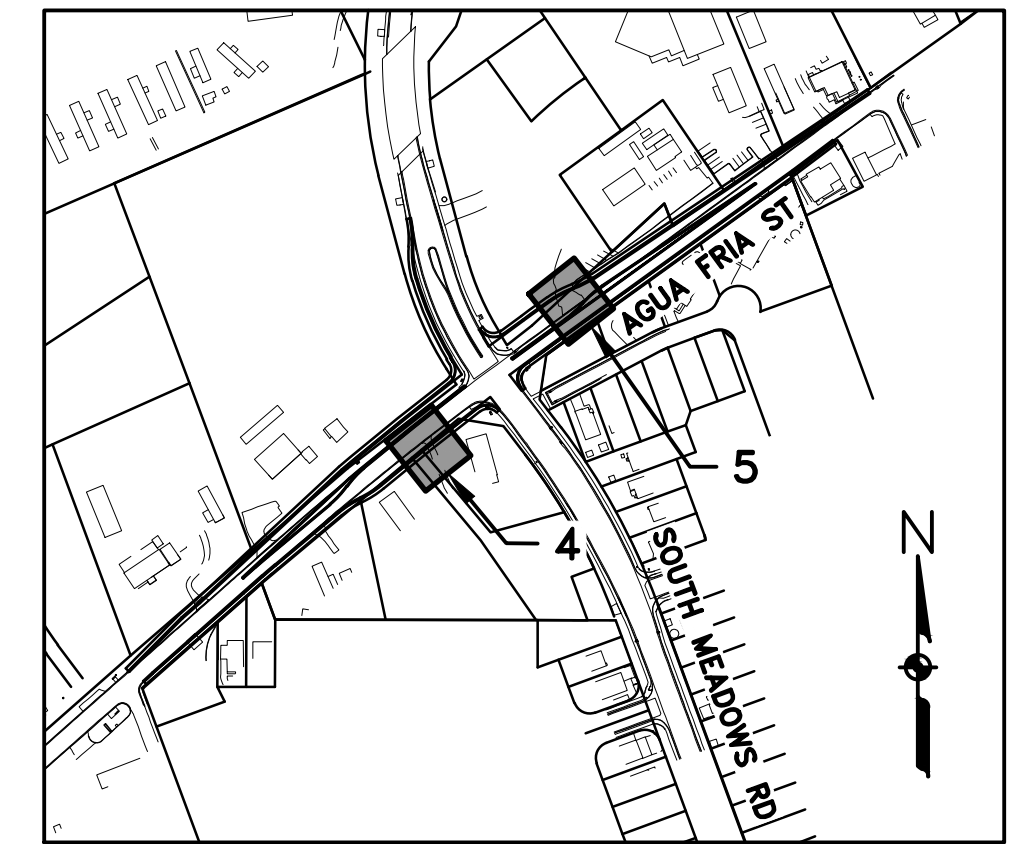
**DRIVEWAY 5 - PLAN VIEW**  
SCALE: 1" = 10'



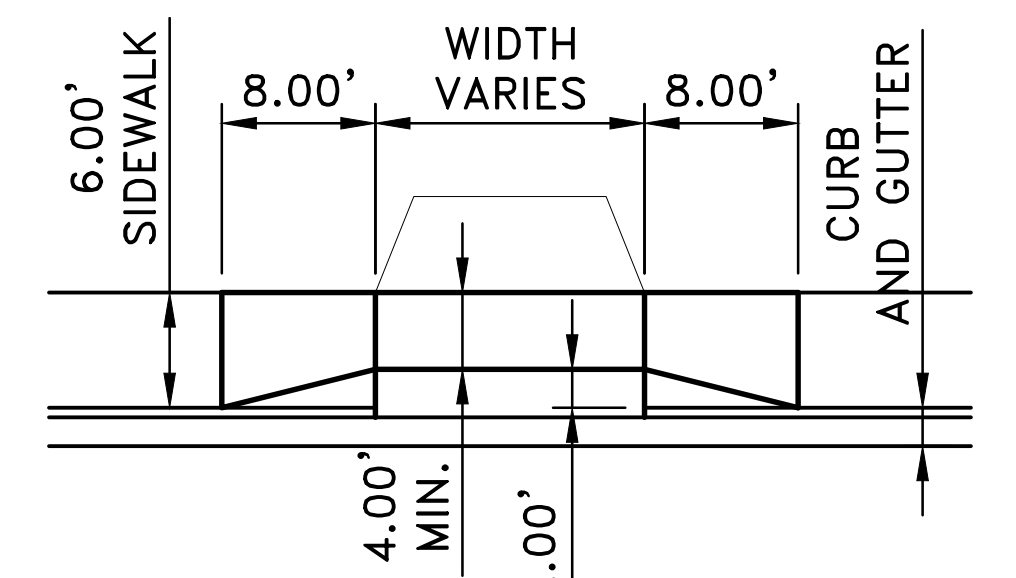
**DRIVEWAY 4 - PROFILE VIEW**  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 2'



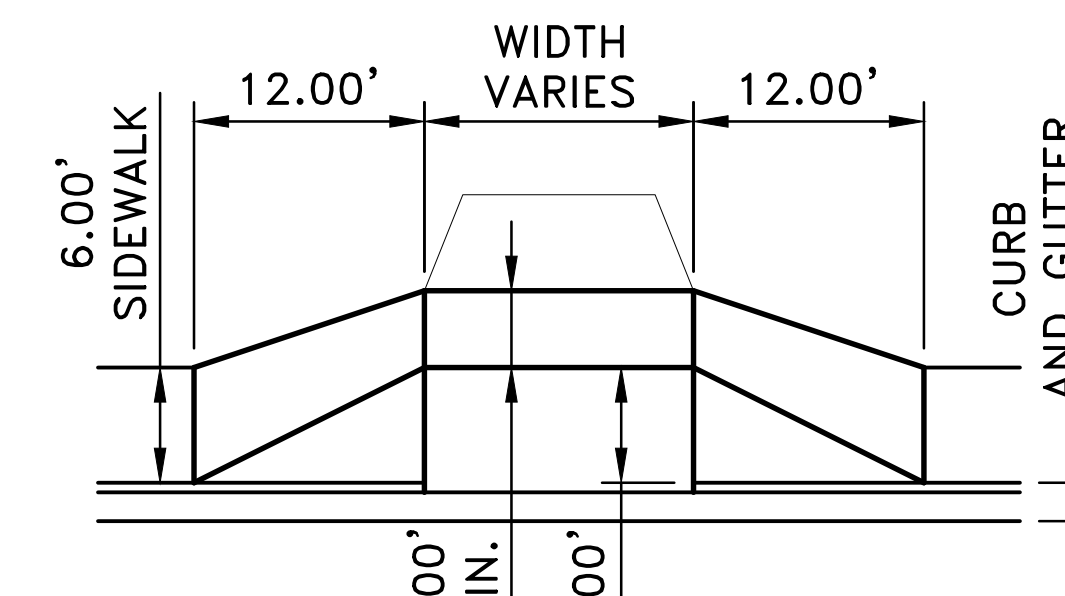
**DRIVEWAY 5 - PROFILE VIEW**  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 2'



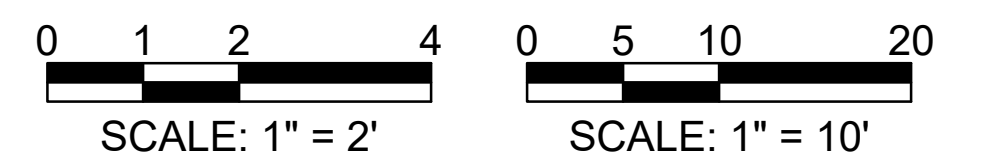
**KEY MAP**  
SCALE: 1" = 300'



**TYPICAL 2B DRIVEWAY**  
SCALE: 1" = 10'



**TYPICAL 2C DRIVEWAY**  
SCALE: 1" = 10'



NO.	DESCRIPTION	DATE	BY
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CITY OF SANTA FE  
CIP# 853C

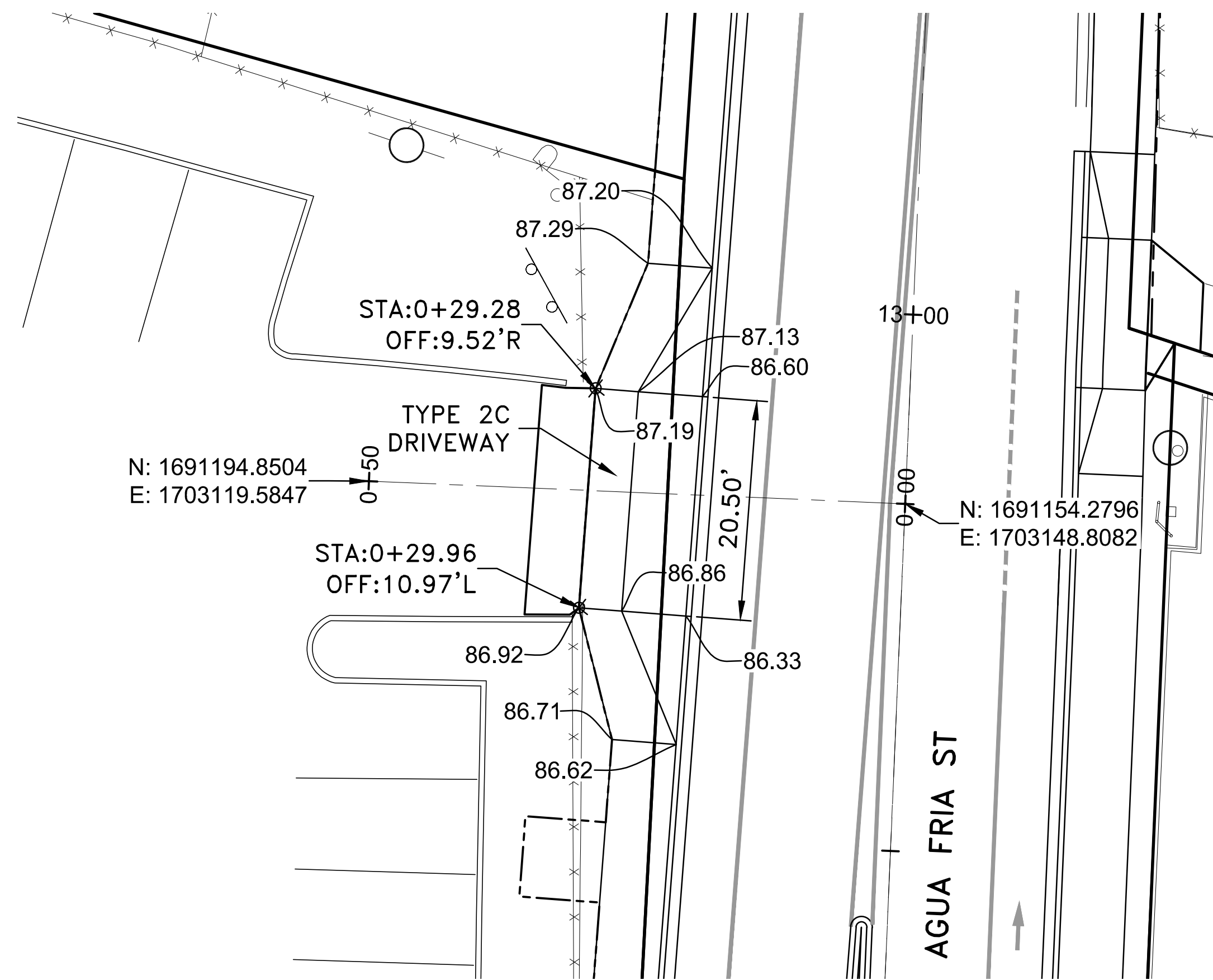
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

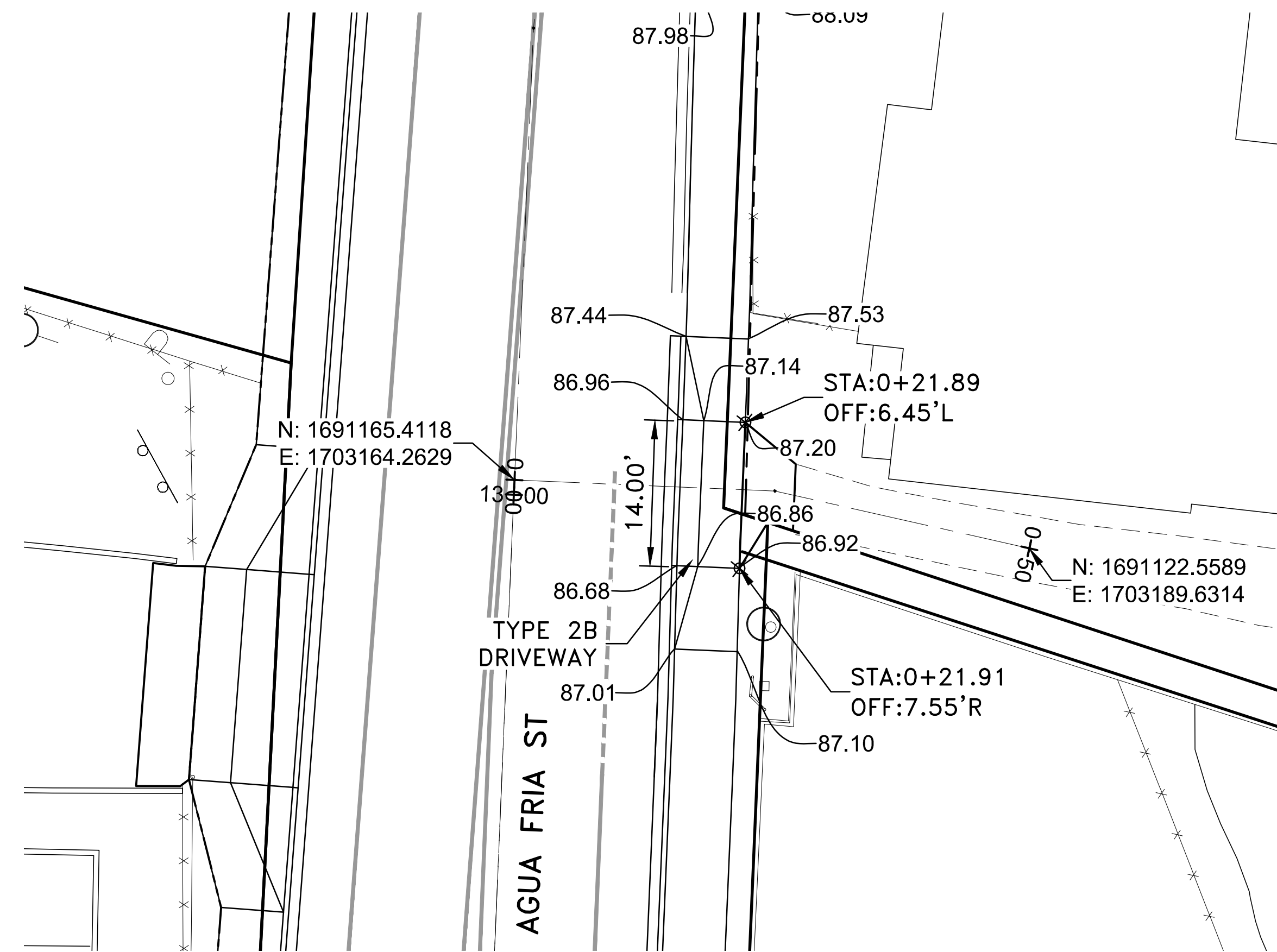
DRIVEWAY TURNOUTS (CONT'D)

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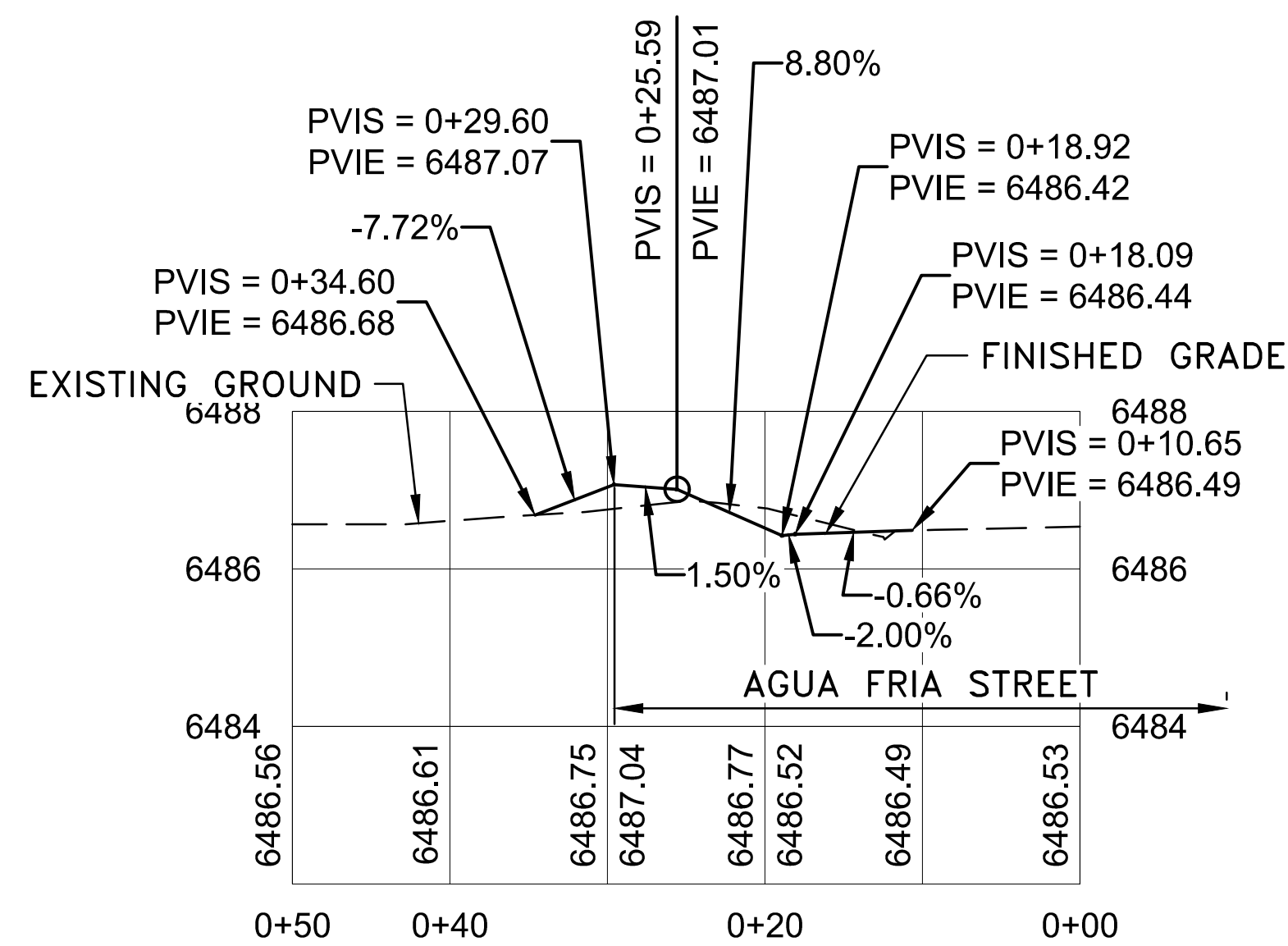




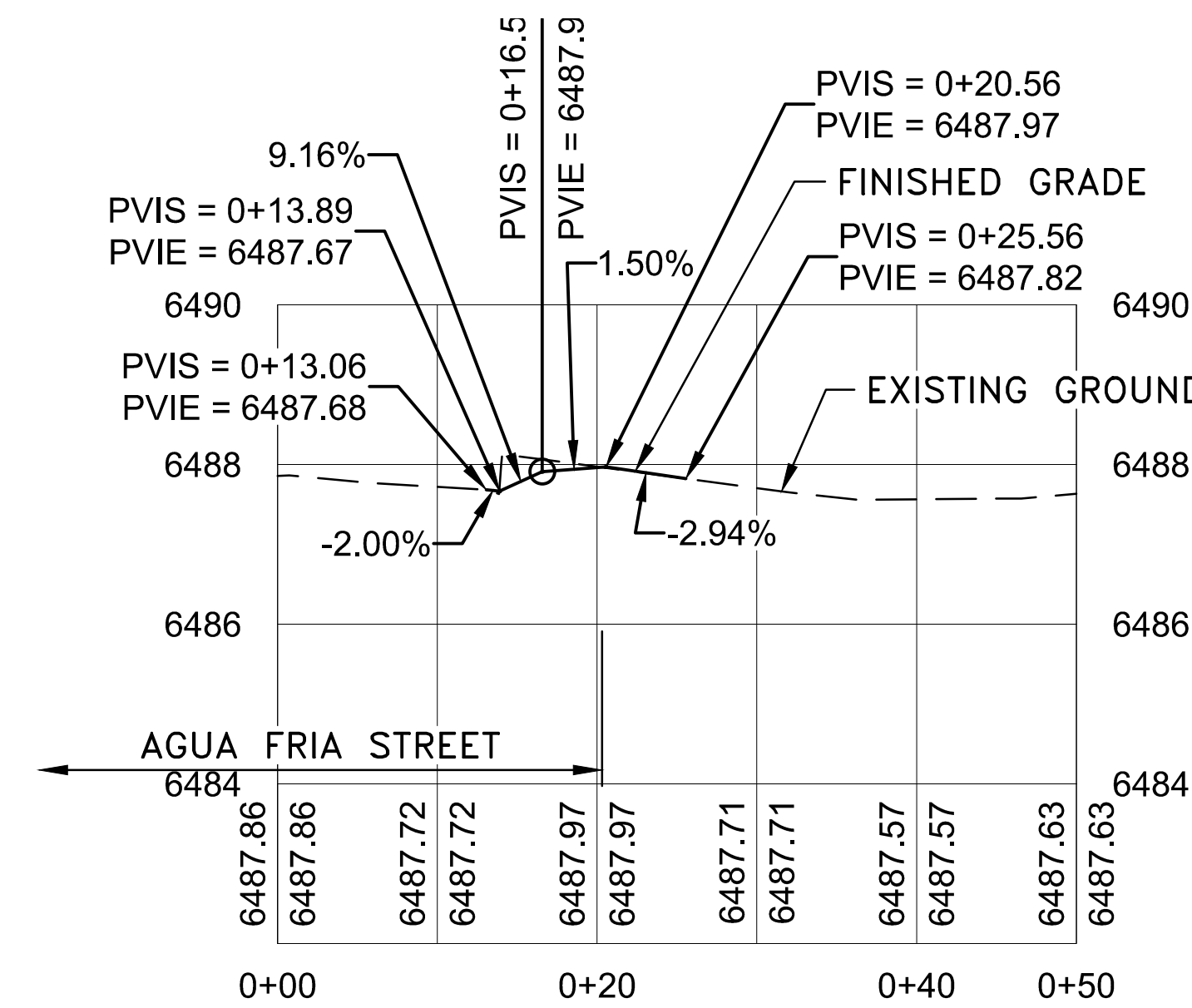
**DRIVEWAY 6 - PLAN VIEW**  
SCALE: 1" = 10'



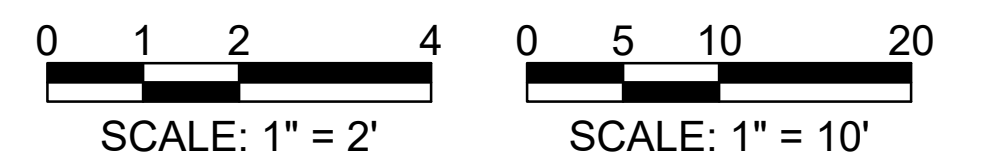
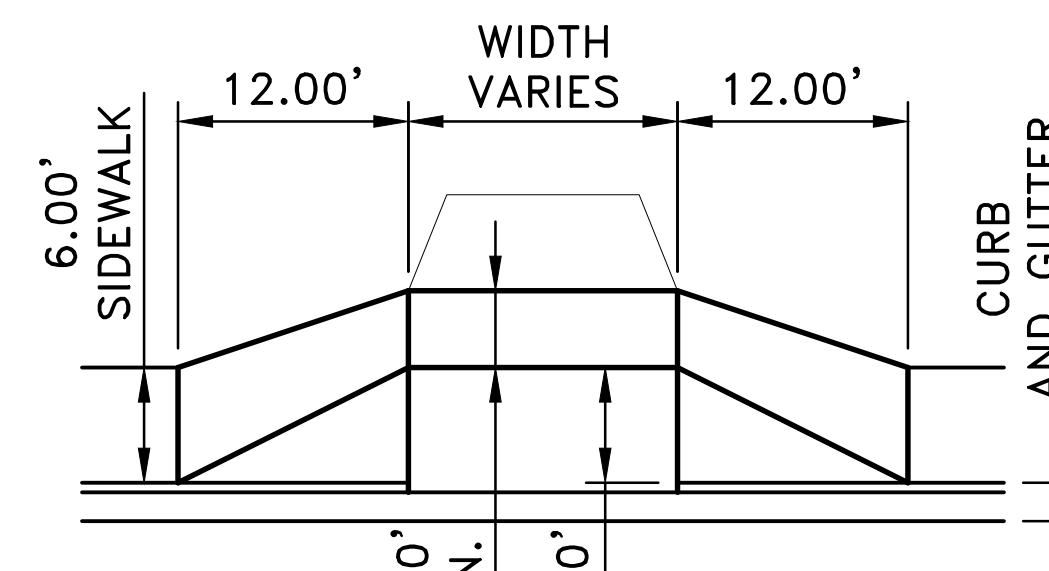
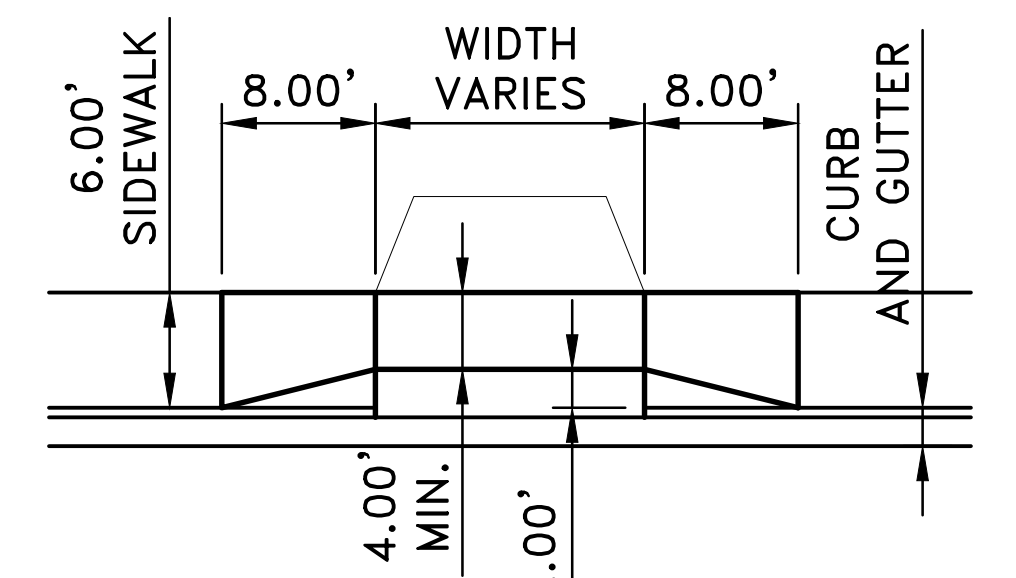
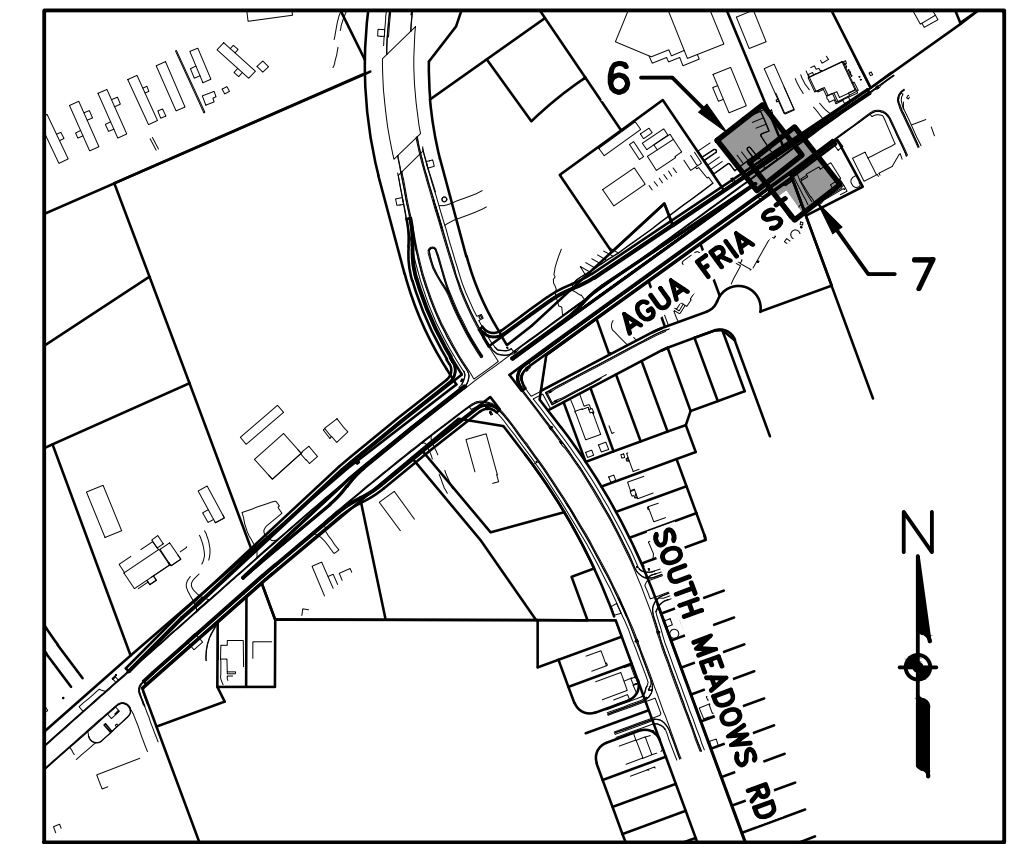
**DRIVEWAY 7 - PLAN VIEW**  
SCALE: 1" = 10'



**DRIVEWAY 6 - PROFILE VIEW**  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 2'



**DRIVEWAY 7 - PROFILE VIEW**  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 2'



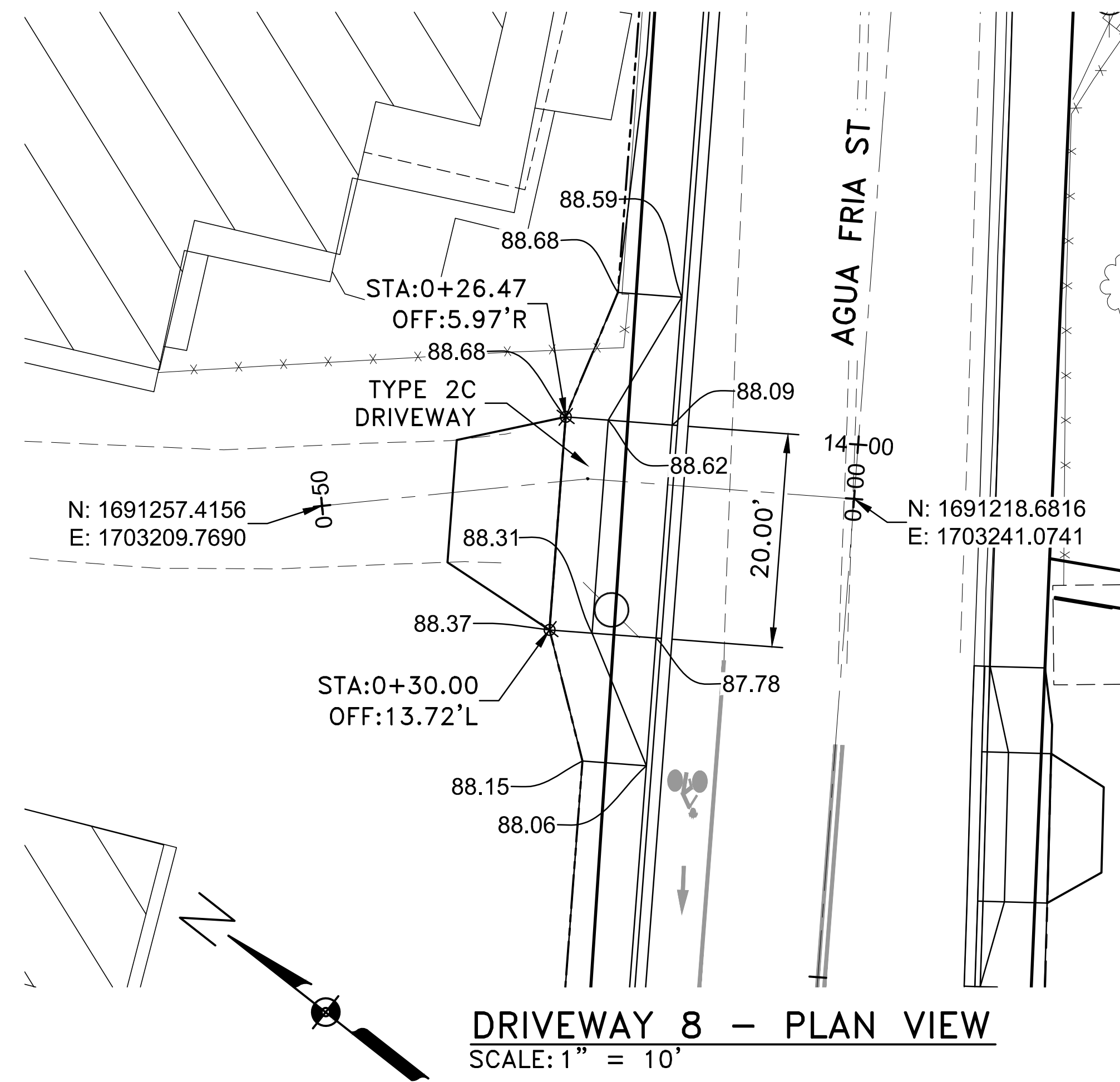
NO.	DESCRIPTION	DATE	BY
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CIP# 853C  
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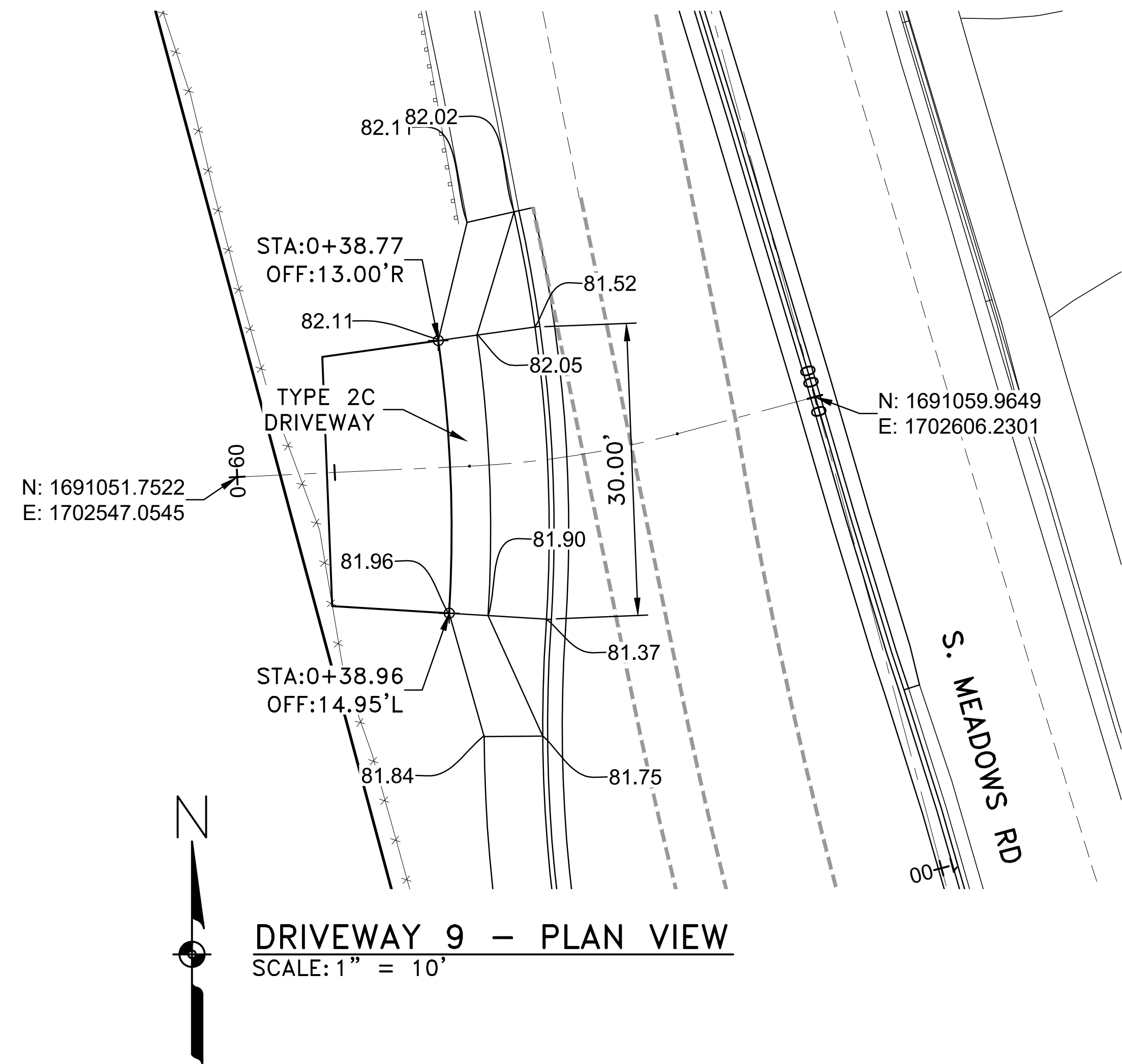
DRIVEWAY TURNOUTS (CONT'D)

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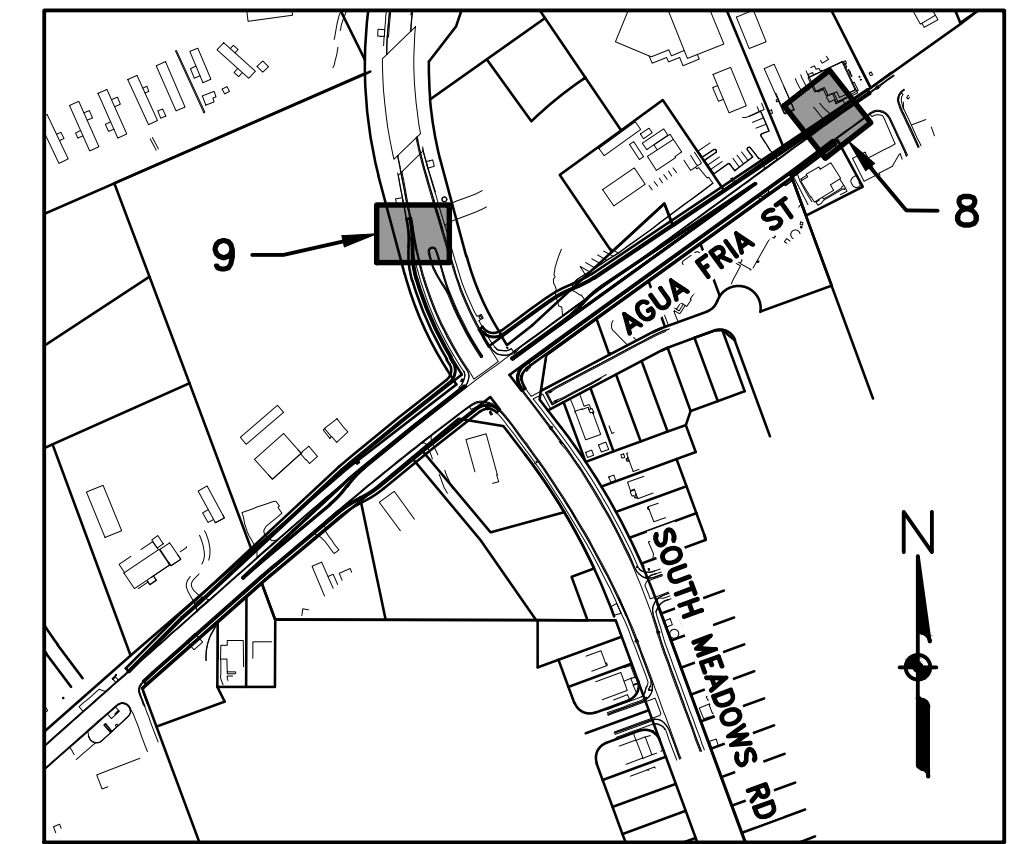




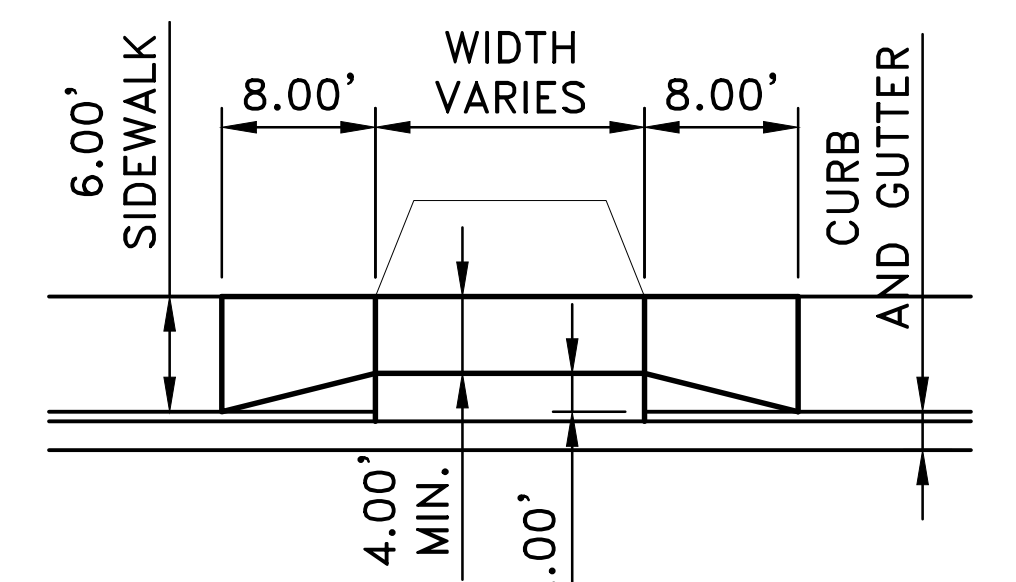
**DRIVEWAY 8 - PLAN VIEW**  
SCALE: 1" = 10'



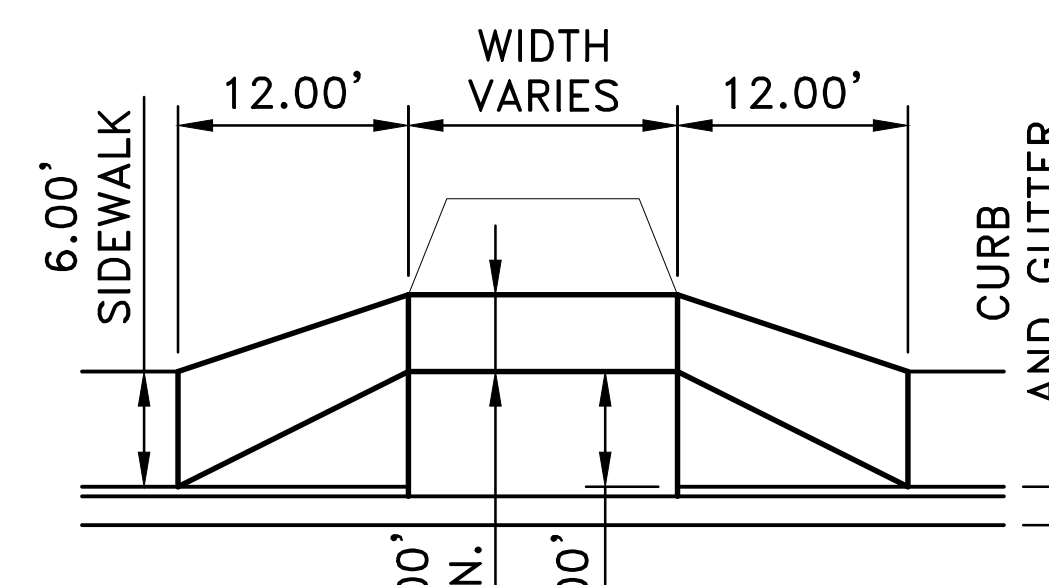
**DRIVEWAY 9 - PLAN VIEW**  
SCALE: 1" = 10'



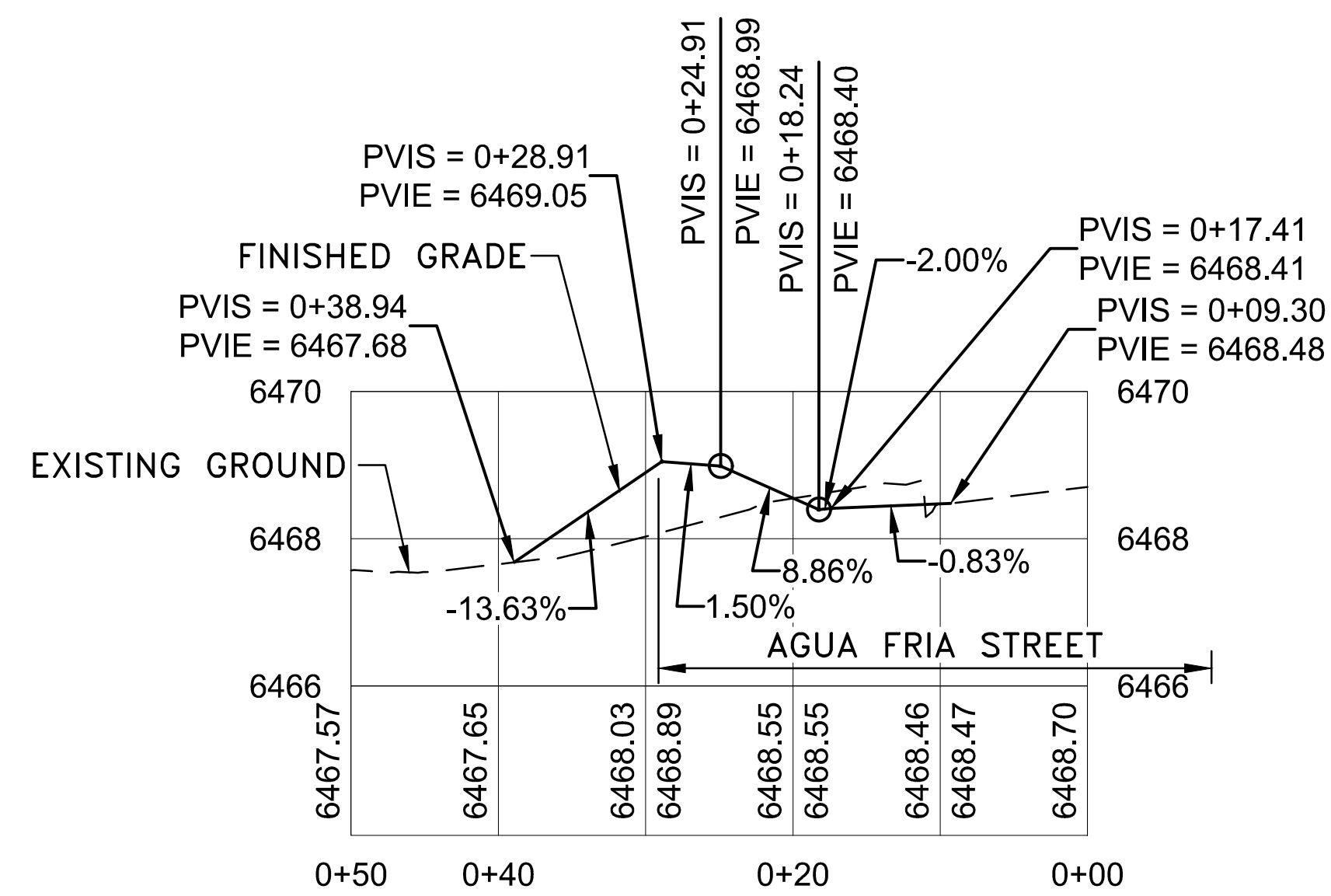
**KEY MAP**  
SCALE: 1" = 300'



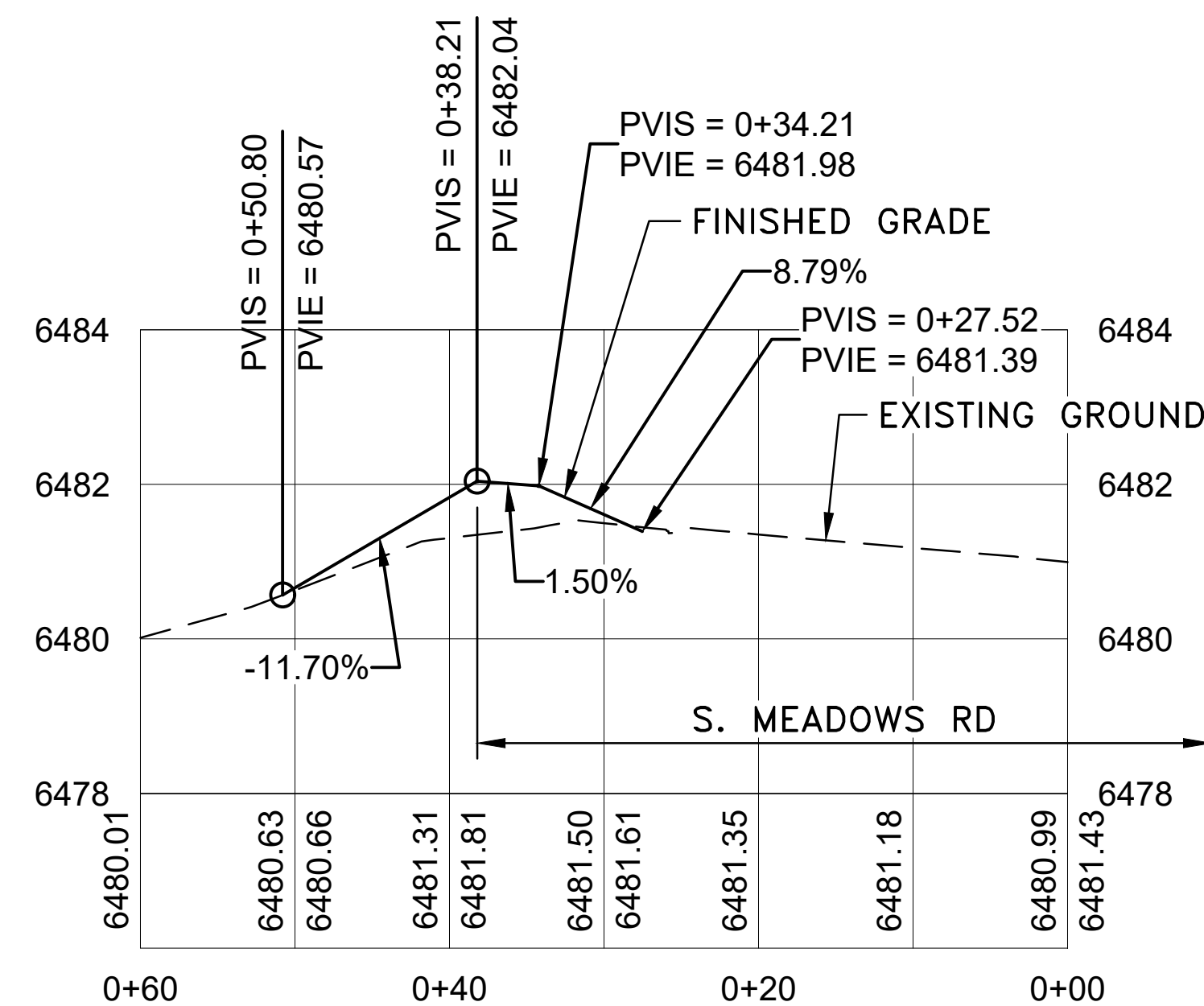
**TYPICAL 2B DRIVEWAY**  
SCALE: 1" = 10'



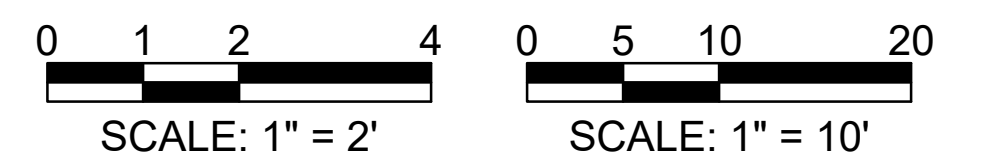
**TYPICAL 2C DRIVEWAY**  
SCALE: 1" = 10'



**DRIVEWAY 8 - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 2'



**DRIVEWAY 9 - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 2'



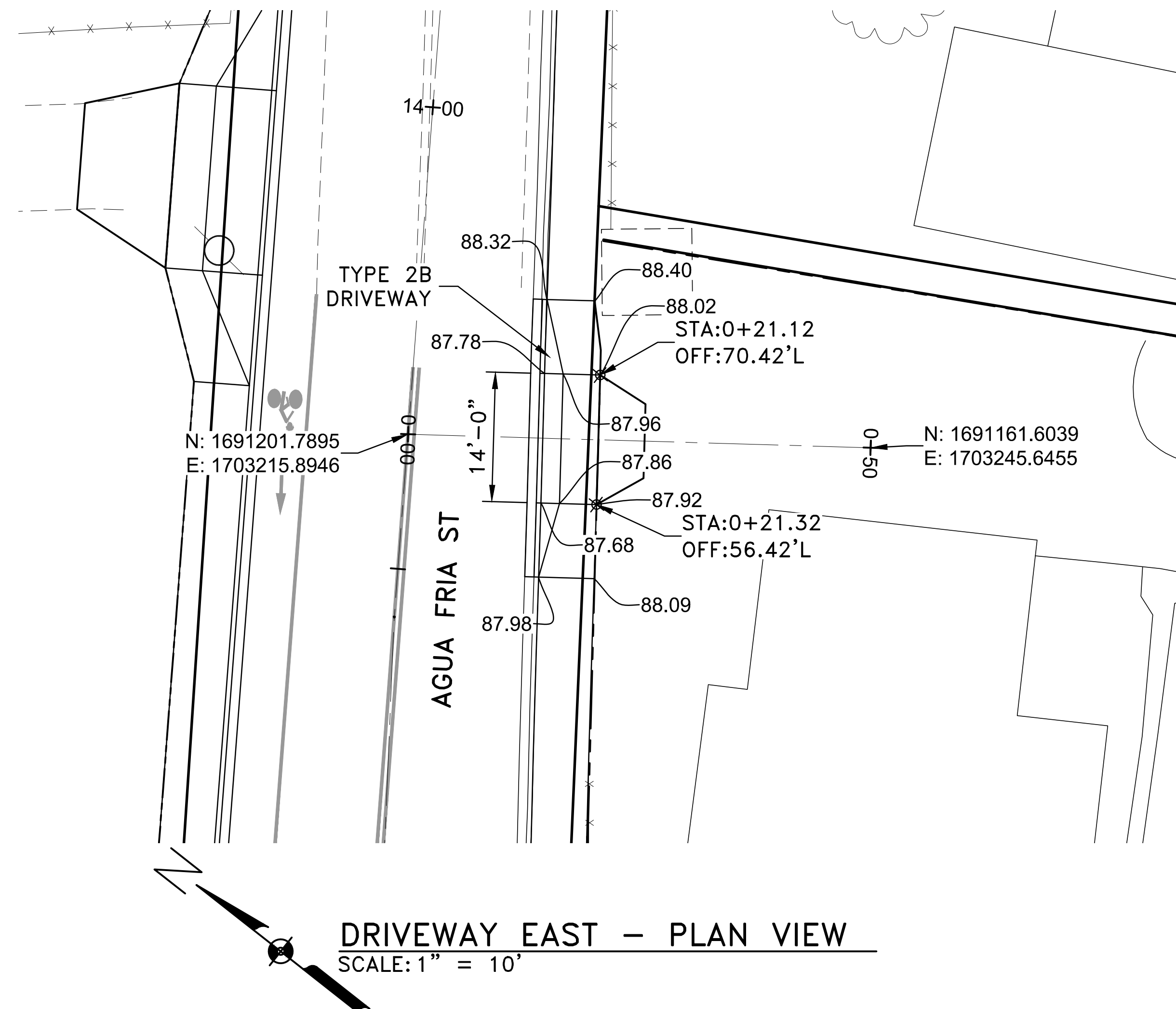
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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

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SOUTH MEADOWS ROAD  
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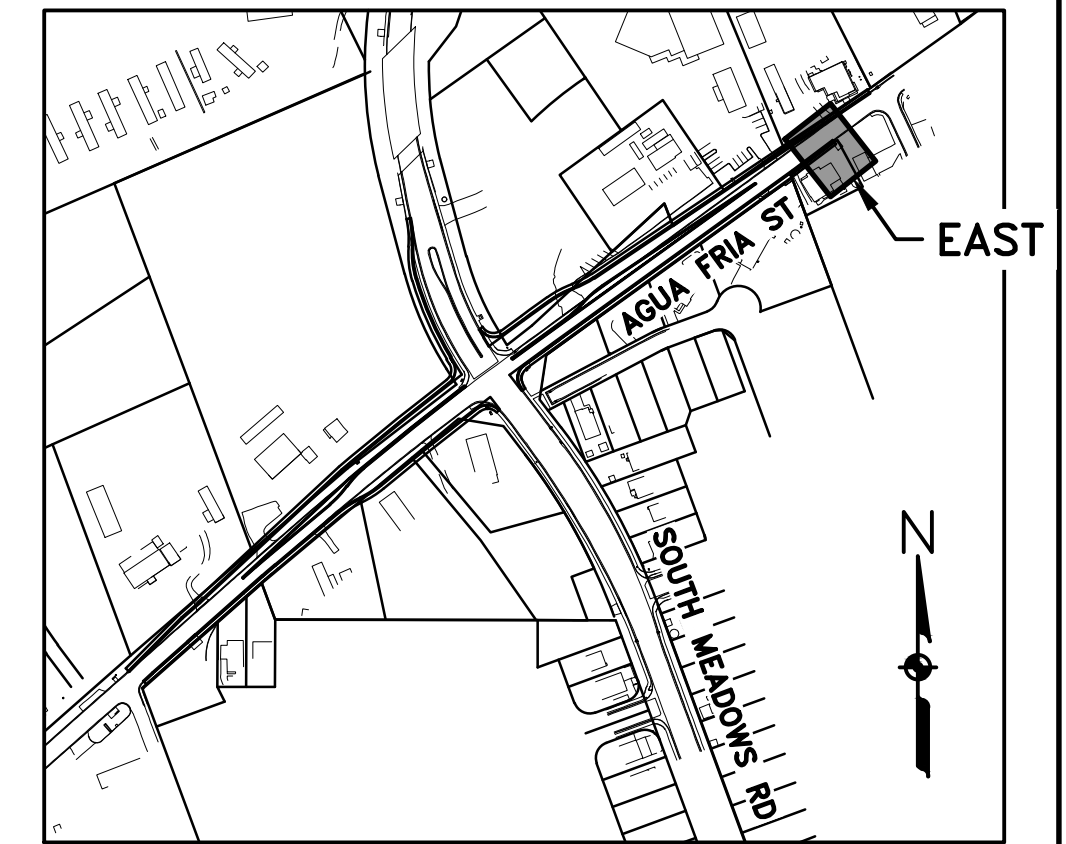
DRIVEWAY TURNOUTS (CONT'D)

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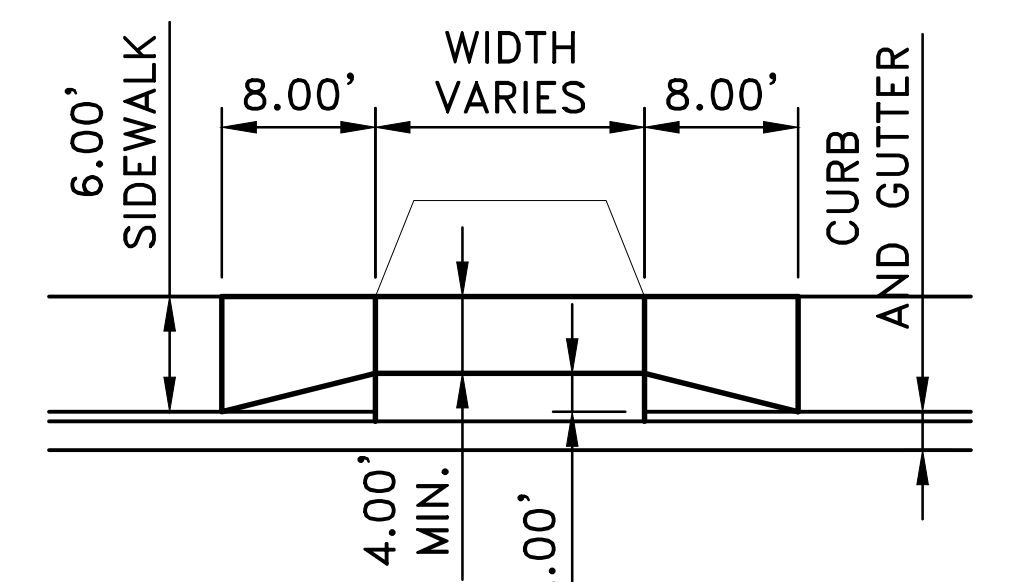




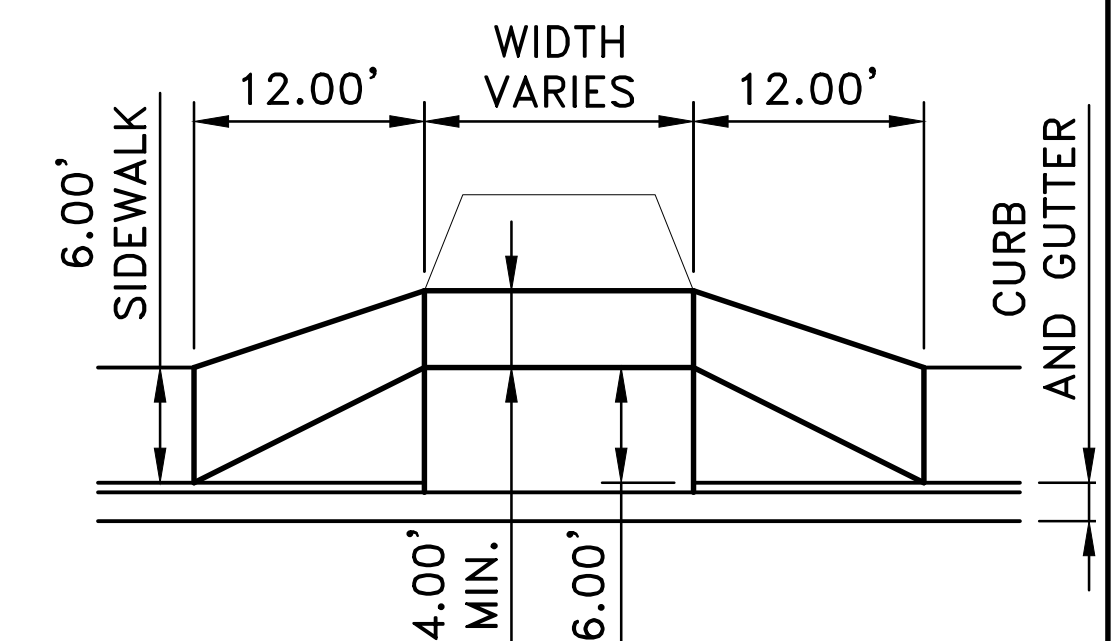
DRIVEWAY EAST - PLAN VIEW  
SCALE: 1" = 10'



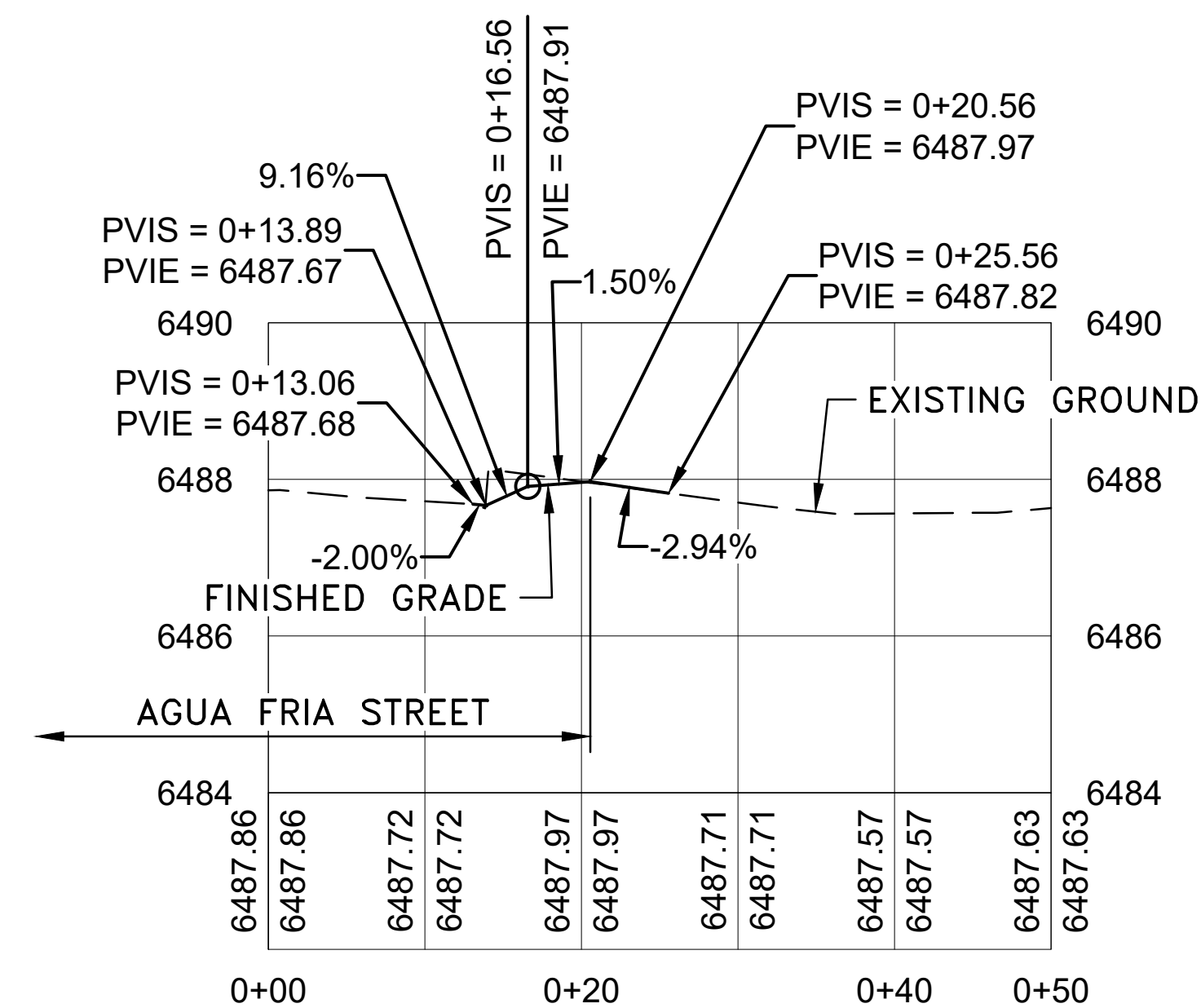
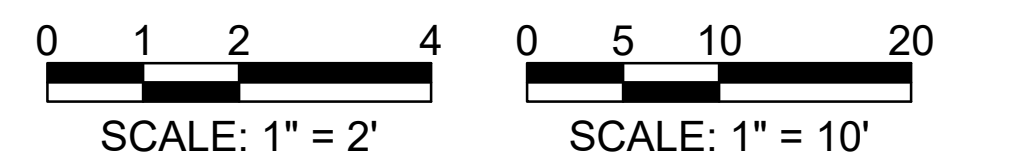
KEY MAP  
SCALE: 1" = 300'



TYPICAL 2B DRIVEWAY  
SCALE: 1" = 10'



TYPICAL 2C DRIVEWAY  
SCALE: 1" = 10'



DRIVEWAY EAST - PROFILE VIEW  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 2'

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

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DRIVEWAY TURNOUTS (CONT'D)

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Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency  
 ** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

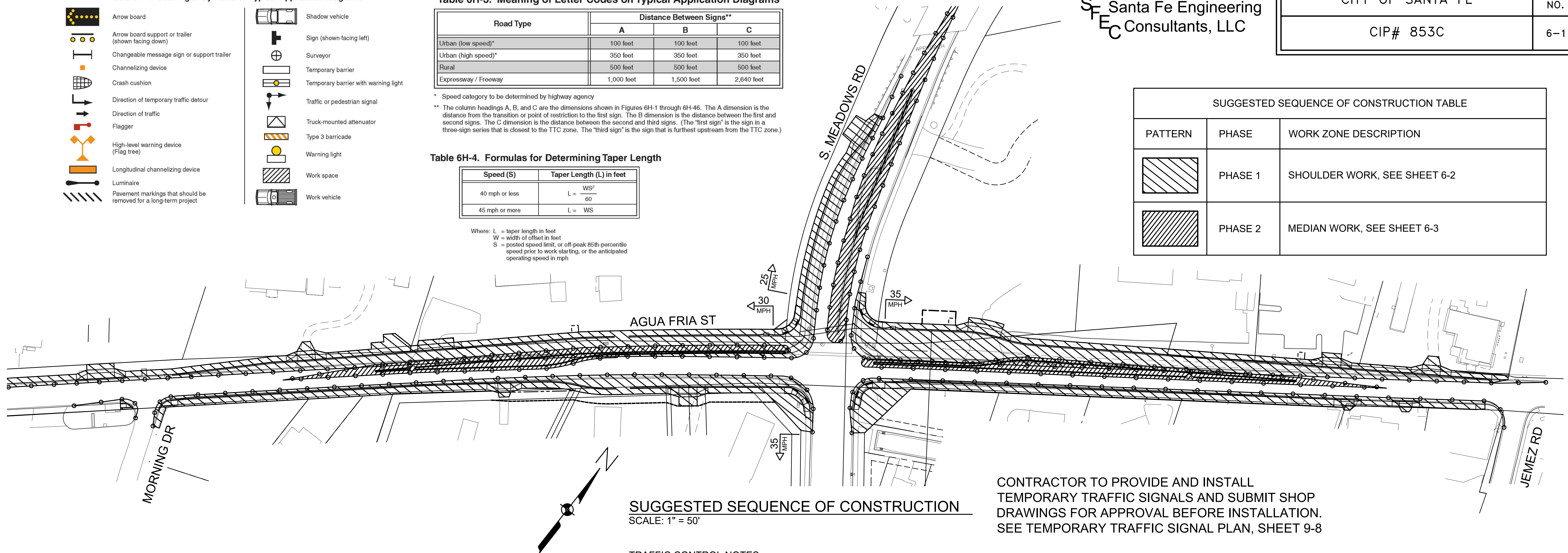
Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet  
 W = width of offset in feet  
 S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

SUGGESTED SEQUENCE OF CONSTRUCTION TABLE

PATTERN	PHASE	WORK ZONE DESCRIPTION
	PHASE 1	SHOULDER WORK, SEE SHEET 6-2
	PHASE 2	MEDIAN WORK, SEE SHEET 6-3



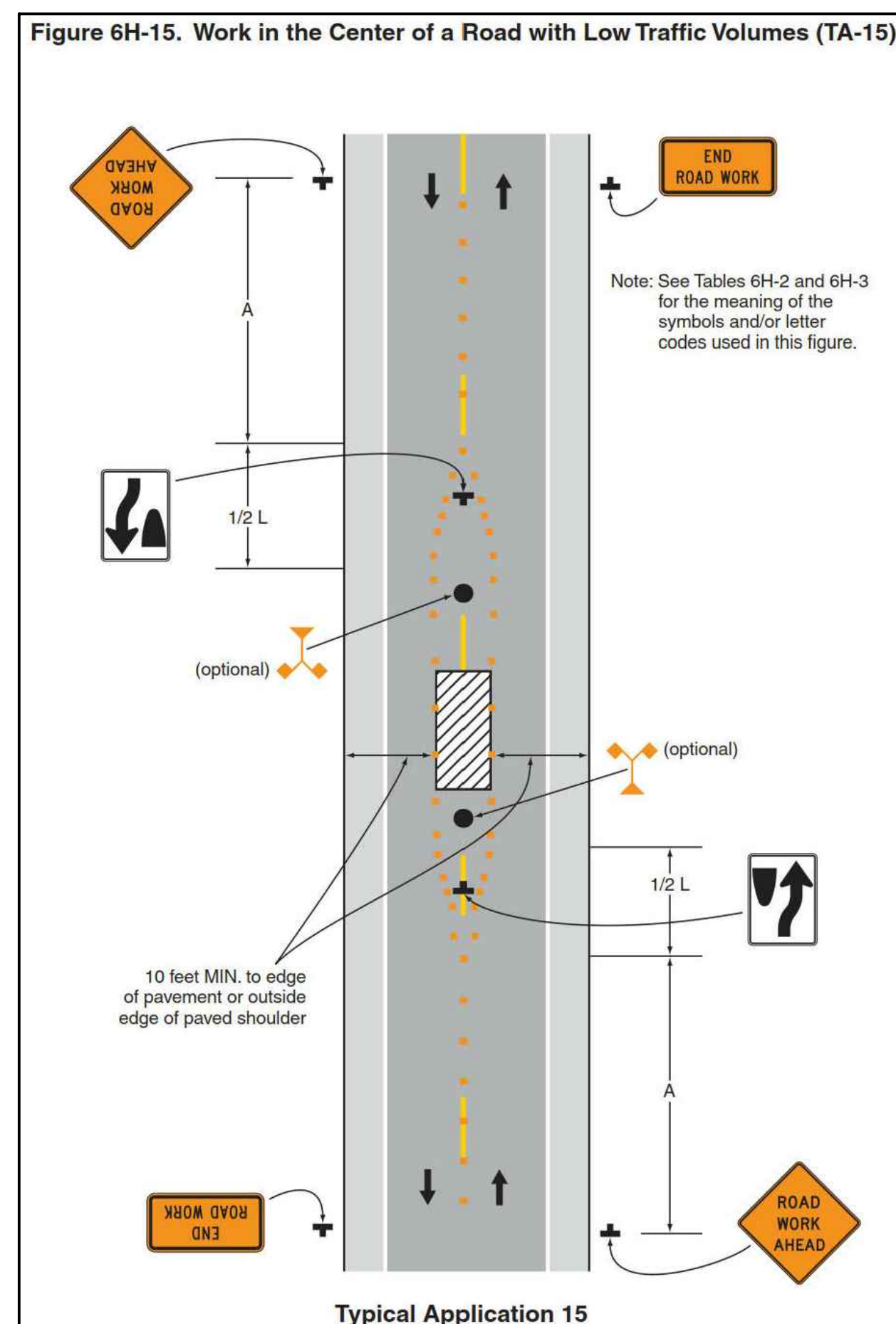
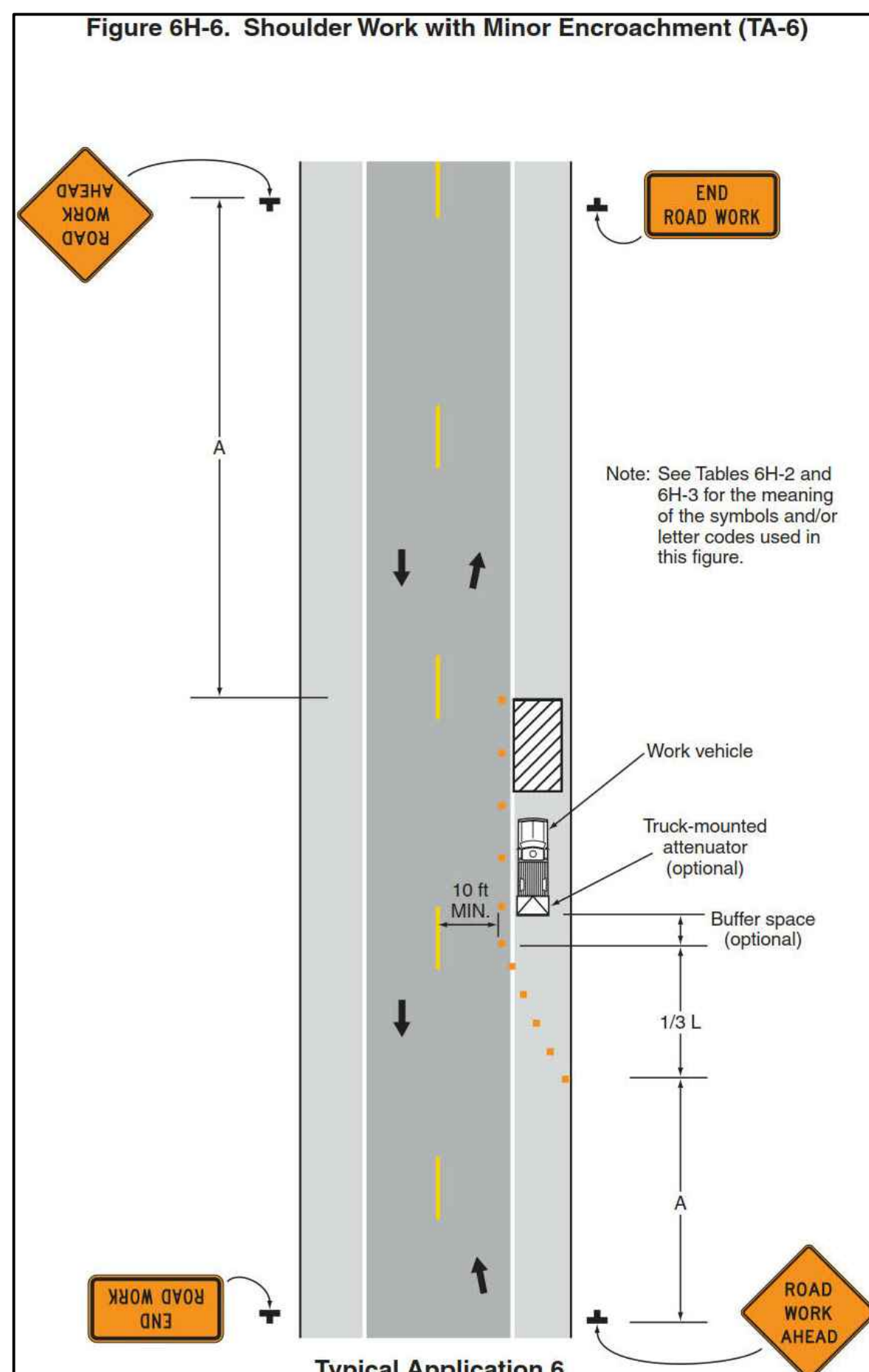
CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY TRAFFIC SIGNALS AND SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE INSTALLATION. SEE TEMPORARY TRAFFIC SIGNAL PLAN, SHEET 9-8

SUGGESTED SEQUENCE OF CONSTRUCTION  
 SCALE: 1" = 50'

TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL DEVICES AND THEIR PLACEMENT SHALL CONFORM TO CURRENT M.U.T.C.D. SPECIFICATIONS.
- THIS PLAN IS PROVIDED FOR GUIDANCE ONLY. THE CONTRACTOR SHALL SUBMIT HIS OWN CONSTRUCTION TRAFFIC CONTROL PLAN TO BE APPROVED BY THE CITY OF SANTA FE TRAFFIC ENGINEER. ADDITIONAL PHASES AND SUB PHASES MAY BE NEEDED BASED ON THE CONTRACTOR'S DAY TO DAY VARIED OPERATIONS.
- THIS IS AN URBAN LOW SPEED AREA. POSTED SPEED LIMIT VARIES FROM 25 MPH TO 35 MPH. SIGN SPACING PER MUTCD IS 100 FEET.
- SPACING OF PANELS SHALL BE NO GREATER (IN FEET) THAN THE POSTED SPEED.
- 10' MINIMUM WIDTH DRIVING LANES TO BE MAINTAINED AT ALL TIMES.
- HOURS OF OPERATIONS SHALL BE LIMITED TO MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM.
- THE CONTRACTOR SHALL REMOVE OR COVER ALL CONFLICTING PERMANENT SIGNING AS DIRECTED BY THE PROJECT MANAGER.
- 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 PROJECT MANAGER.
- THE CONTRACTOR SHALL DESIGNATE PERSONNEL WHO WILL BE AVAILABLE DURING NON-WORKING HOURS AND DAYS TO MAINTAIN TEMPORARY CONSTRUCTION TRAFFIC CONTROL.
- CONSTRUCTION EQUIPMENT & MATERIAL STORAGE: THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 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 THE WORK, INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETING OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- ADVANCE SIGNING SHALL BE SET UP AT THE BEGINNING OF ACTUAL WORK AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED. SIGNS SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.

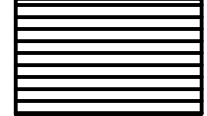

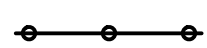
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 SCALE: 1" = 50'

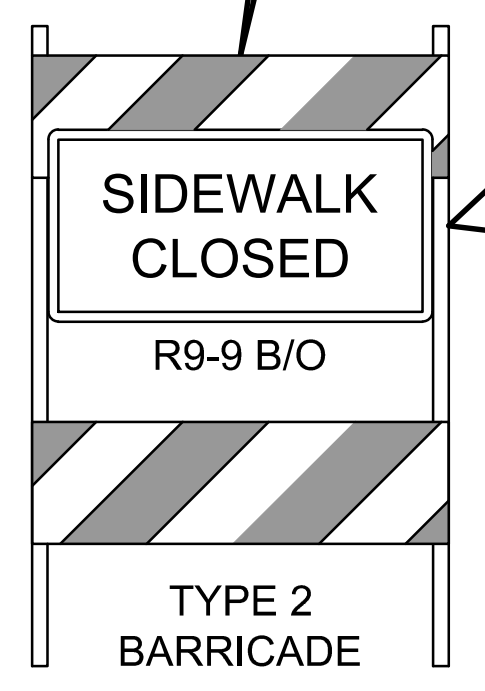
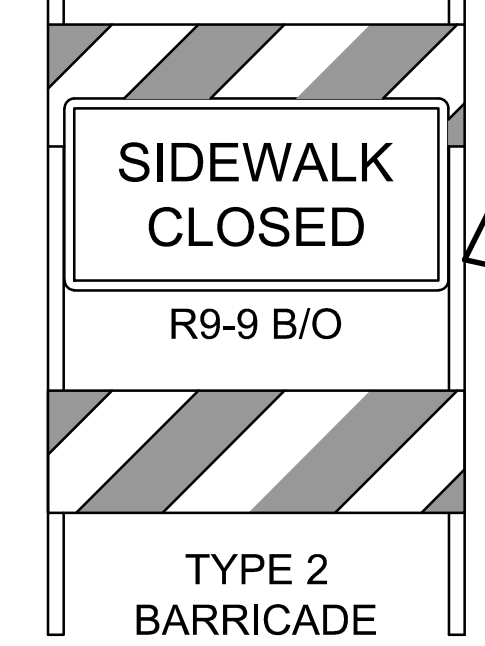


NO.	DESCRIPTION	DATE	BY
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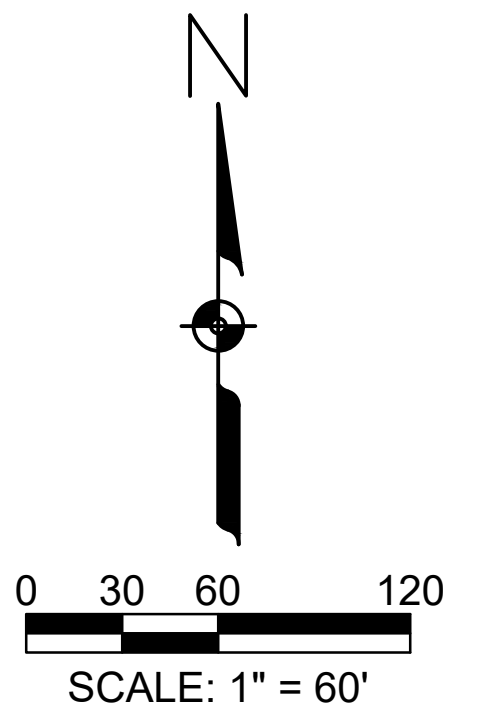
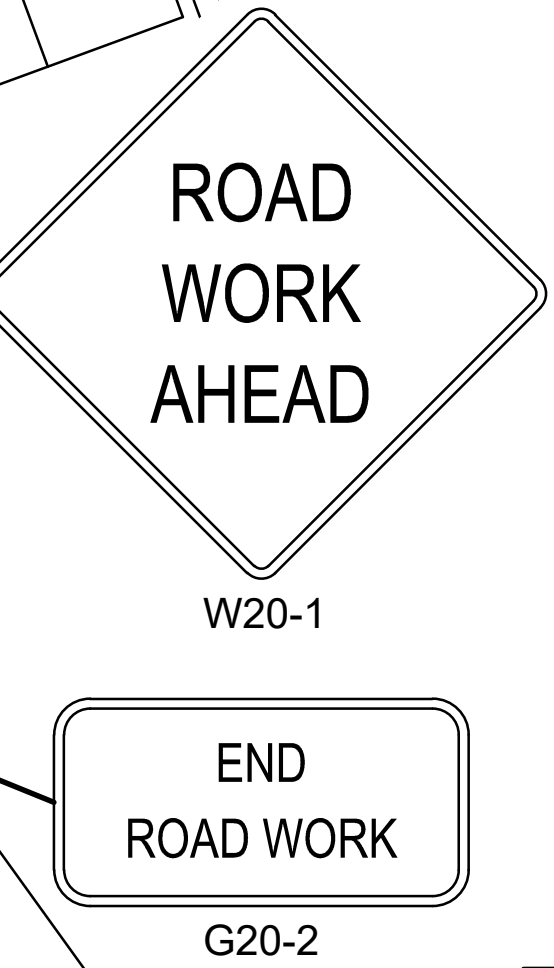
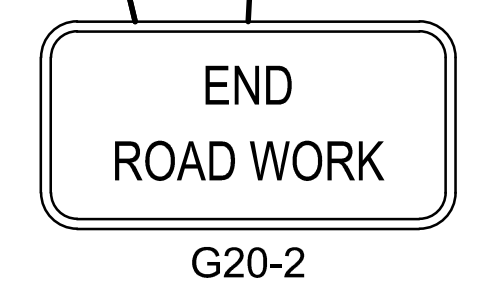
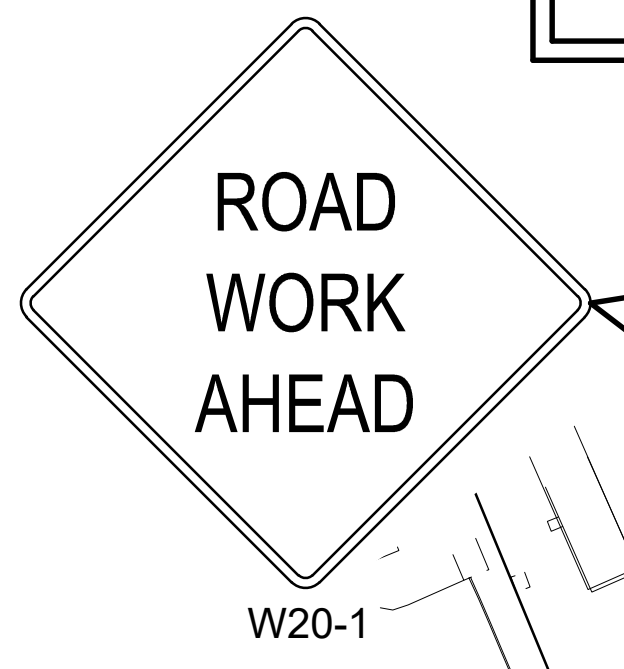
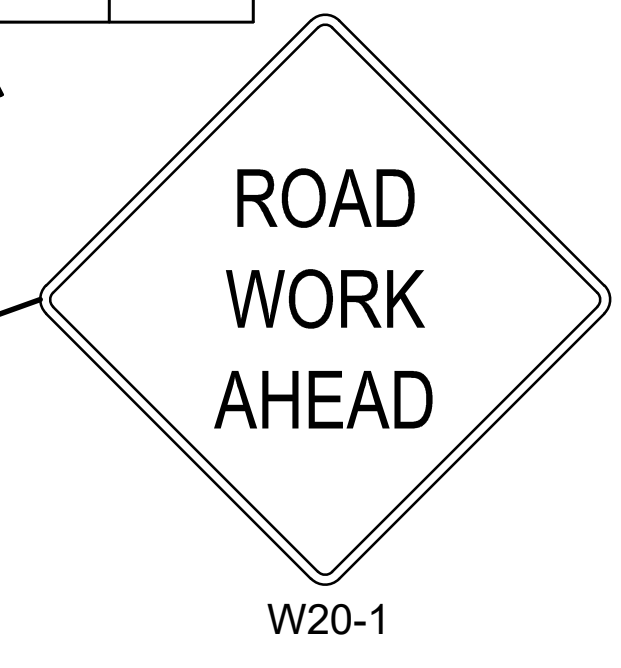
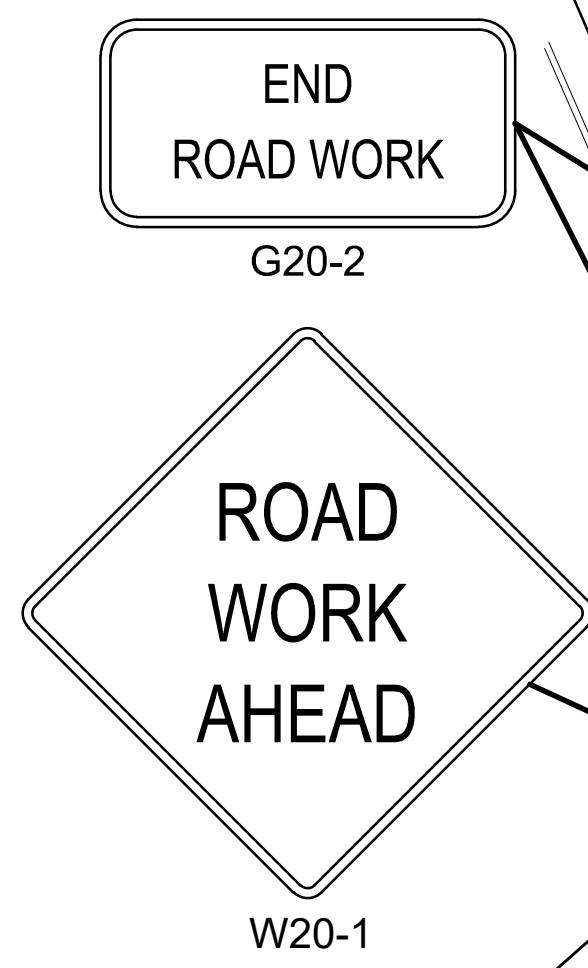
CITY OF SANTA FE  
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 AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
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 SUGGESTED SEQUENCE OF CONSTRUCTION



- LEGEND**
-  WORK ZONE PHASE 1
  -  TEMPORARY SIGN
  -  VERTICAL PANELS



CONTRACTOR TO COORDINATE WITH CITY OF SANTA FE TRANSPORTATION DIVISION TO RELOCATE OR PROVIDE ACCESS TO BUS STOPS DURING CONSTRUCTION



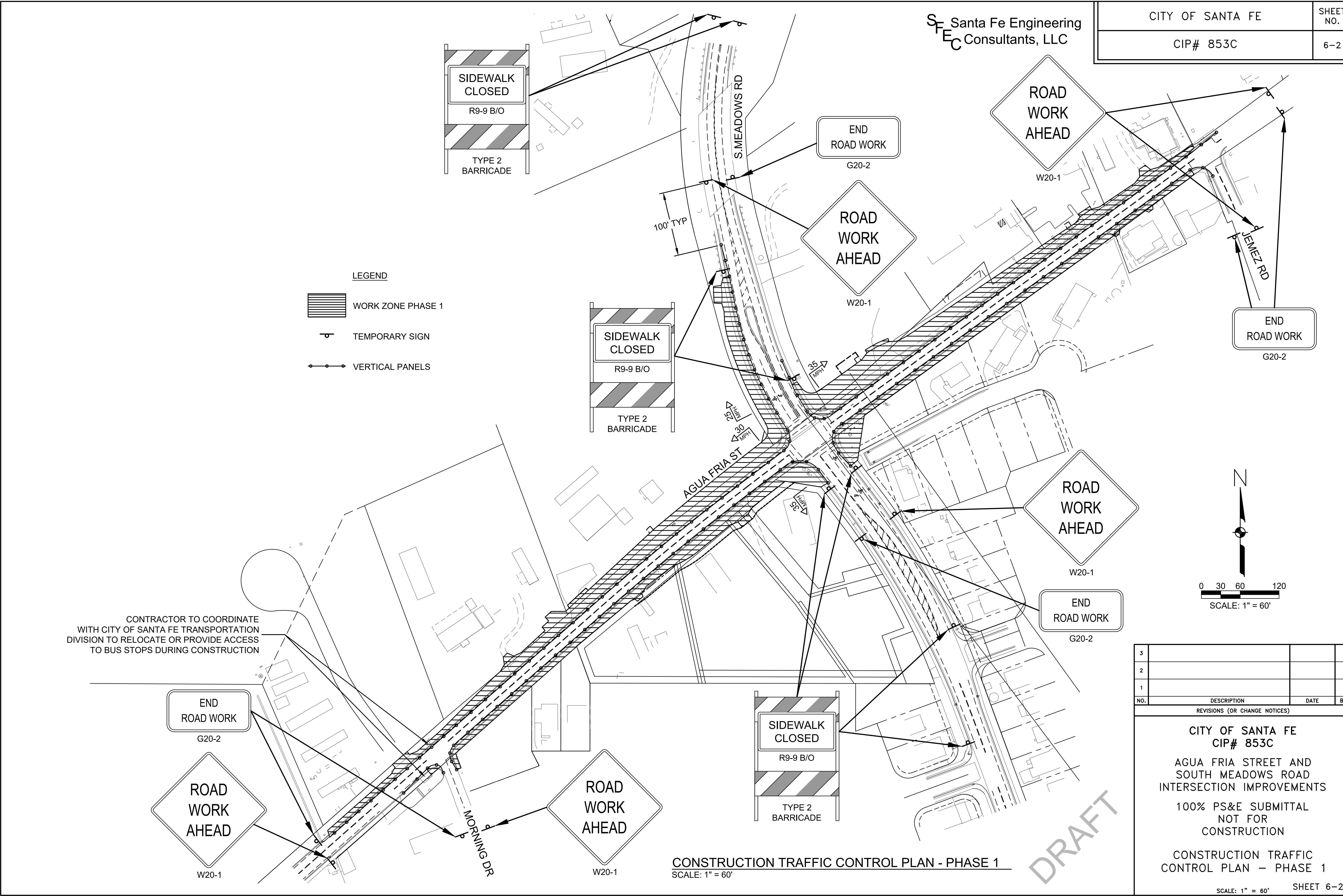
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NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE  
 CIP# 853C  
 AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
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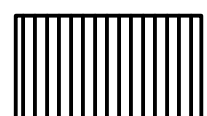

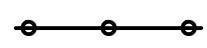
CONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 1

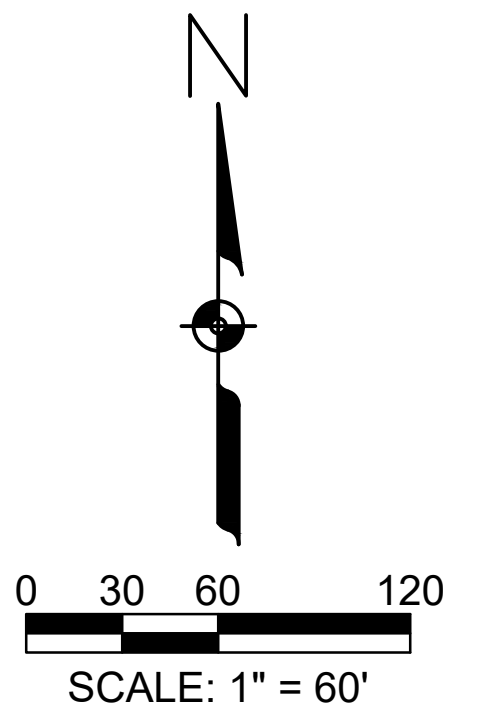
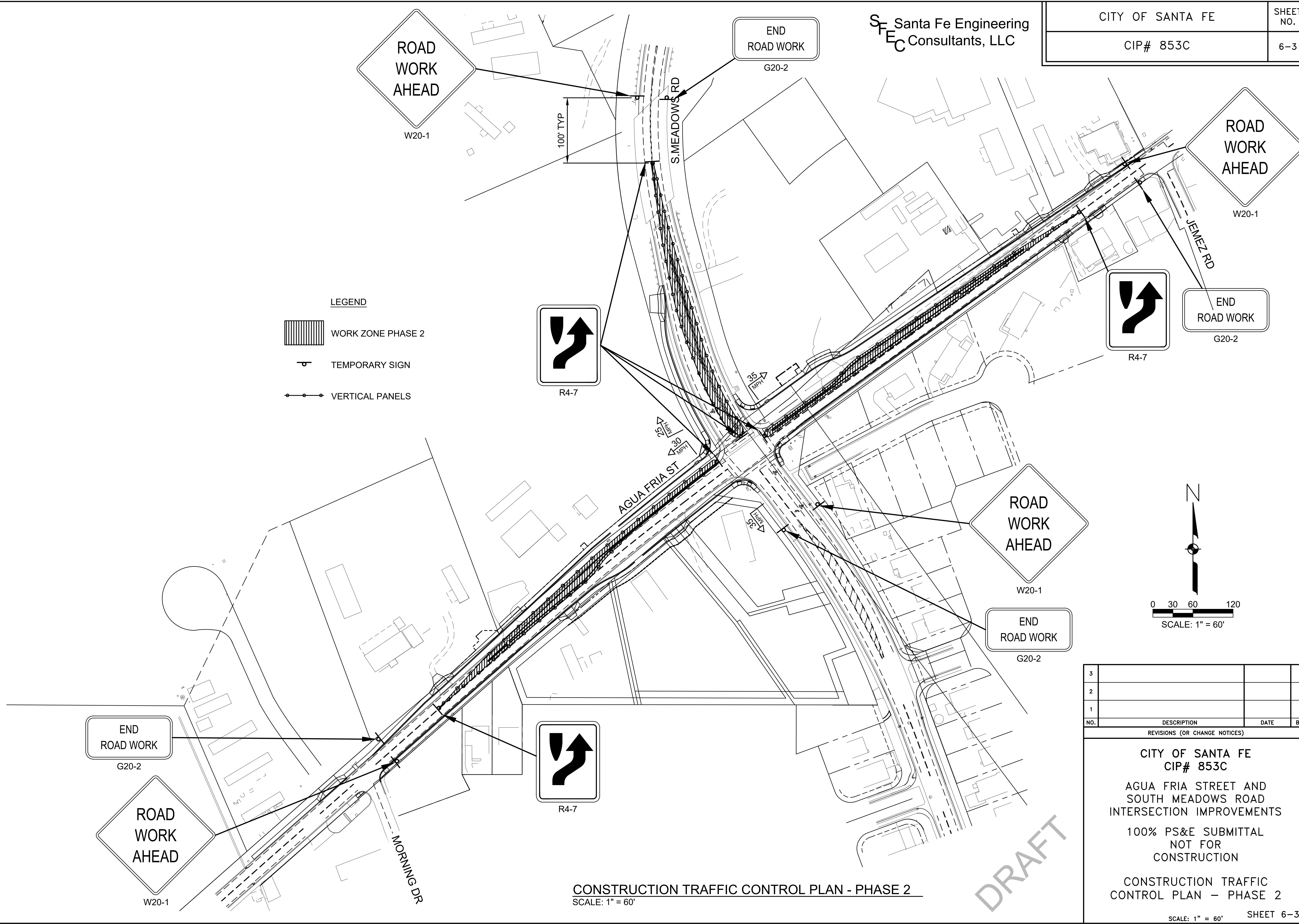
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CONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 1  
 SCALE: 1" = 60'





- LEGEND**
-  WORK ZONE PHASE 2
  -  TEMPORARY SIGN
  -  VERTICAL PANELS



3			
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NO.	DESCRIPTION	DATE	BY

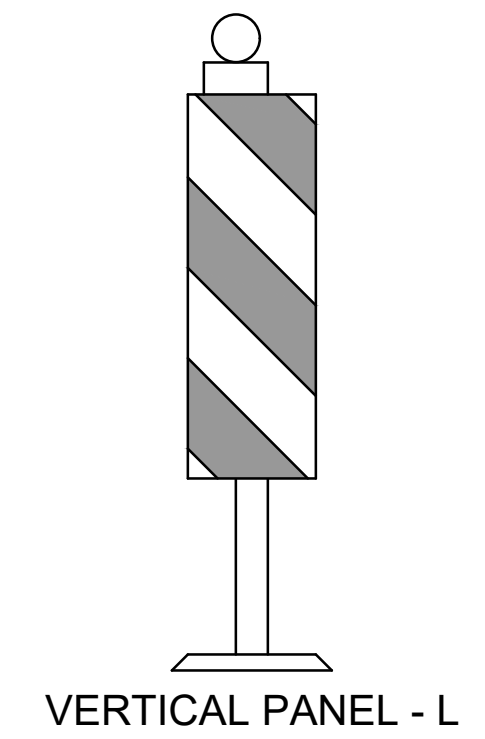
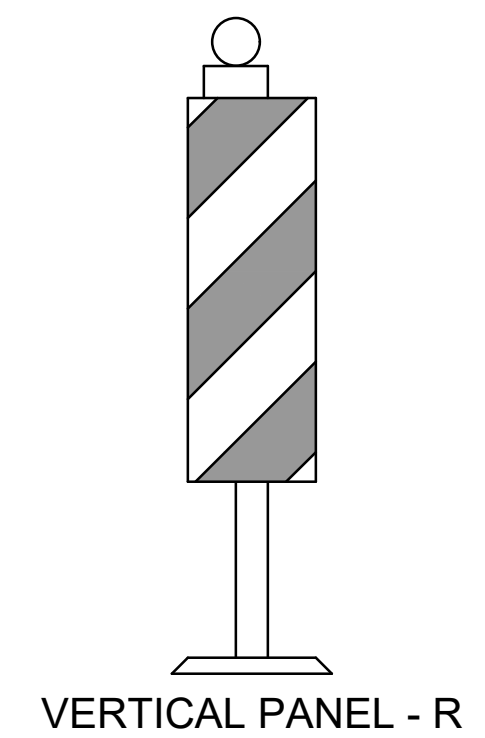
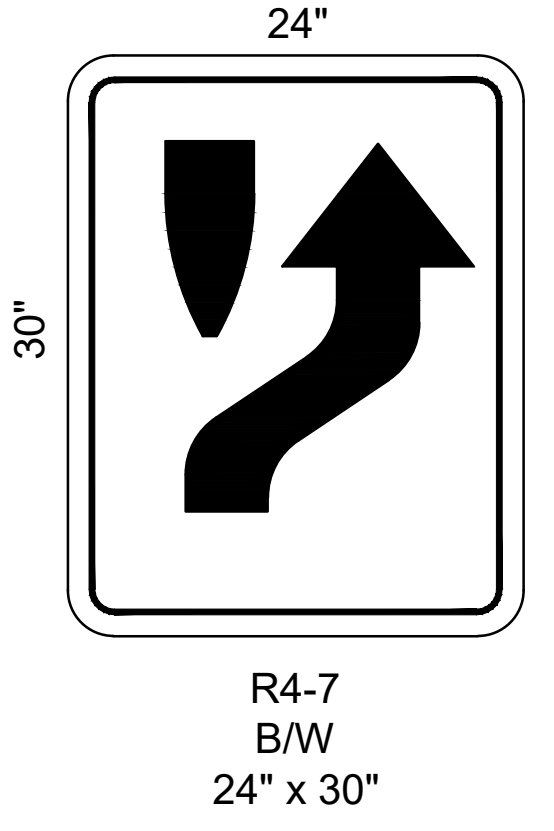
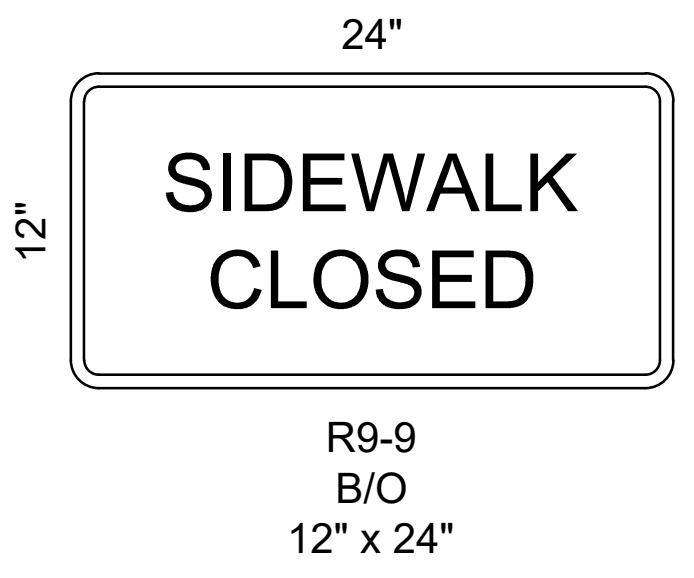
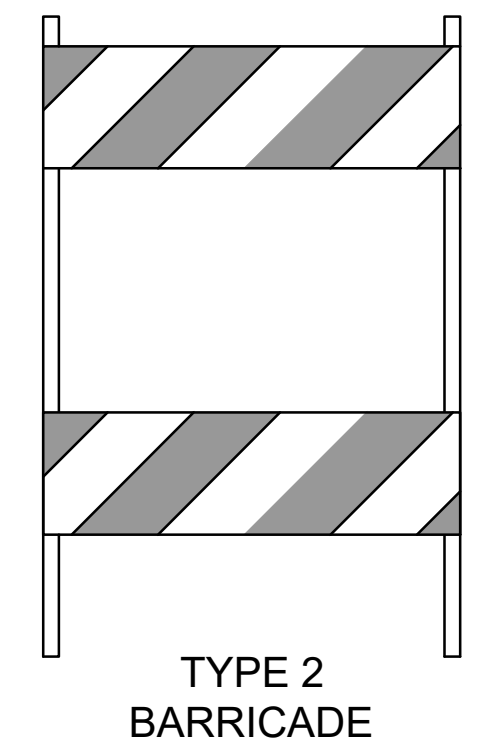
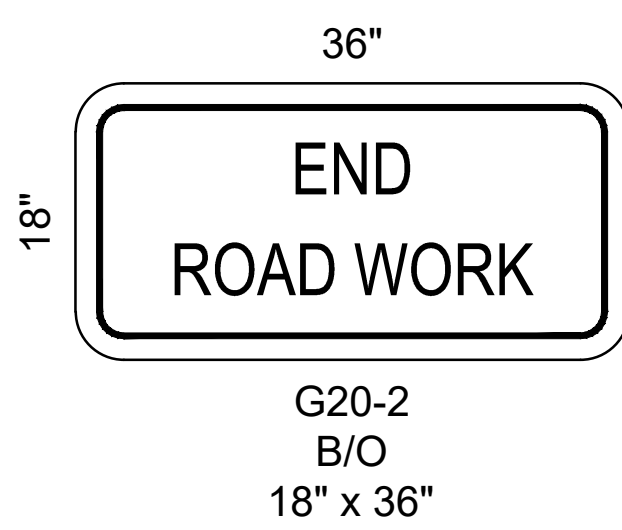
CITY OF SANTA FE  
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 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS  
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CONSTRUCTION TRAFFIC  
 CONTROL PLAN - PHASE 2

**CONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 2**  
 SCALE: 1" = 60'

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**CONSTRUCTION TRAFFIC CONTROL SIGN FACE DETAILS**  
SCALE: N.T.S.

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

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SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

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CONSTRUCTION

CONSTRUCTION TRAFFIC  
CONTROL SIGN FACE DETAILS

SCALE: N.T.S. SHEET 6-4

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CONSTRUCTION SIGNING QUANTITIES - PHASE 1							
SIGN CODE	SIGN WIDTH (INCHES)	SIGN HEIGHT (INCHES)	INDIVIDUAL SIGN AREA (SF)	NUMBER OF SIGNS	[702000] TOTAL SIGN AREA (SF)	NUMBER OF SUPPORTS PER SIGN	NUMBER OF SUPPORTS AND BASES
W20-1	36	36	9	6	54	1	6
G20-2	18	36	4.5	6	27	1	6
R9-9	12	24	2	8	16	0	0
TYPE 2 BARRICADE				8			
PORTABLE CHANGEABLE MESSAGE SIGN				4			
<b>TOTALS</b>				32	97		12

CONSTRUCTION SIGNING QUANTITIES - PHASE 2							
SIGN CODE	SIGN WIDTH (INCHES)	SIGN HEIGHT (INCHES)	INDIVIDUAL SIGN AREA (SF)	NUMBER OF SIGNS	[702000] TOTAL SIGN AREA (SF)	NUMBER OF SUPPORTS PER SIGN	NUMBER OF SUPPORTS AND BASES
W20-1	36	36	9	4	36	1	4
G20-2	18	36	4.5	4	18	1	4
R4-7	24	30	5	6	30	1	6
<b>TOTALS</b>				14	84	3	14

EQUIPMENT MAXIMUM AT ANY PHASE (EA)		
ITEM	DESCRIPTION	TOTALS
702000	CONSTRUCTION SIGNS	32
702100	CONSTRUCTION SIGN SUPPORT	12
702238	BARRICADE, TYPE II	8
702320	VERTICAL PANEL	139
702610	PORTABLE CHANGEABLE MESSAGE SIGN	4

NO.	DESCRIPTION	DATE	BY
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1			

REVISIONS (OR CHANGE NOTICES)

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AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
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CONSTRUCTION SIGNING SCHEDULE

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**STRIPING AND PAINT NOTES**

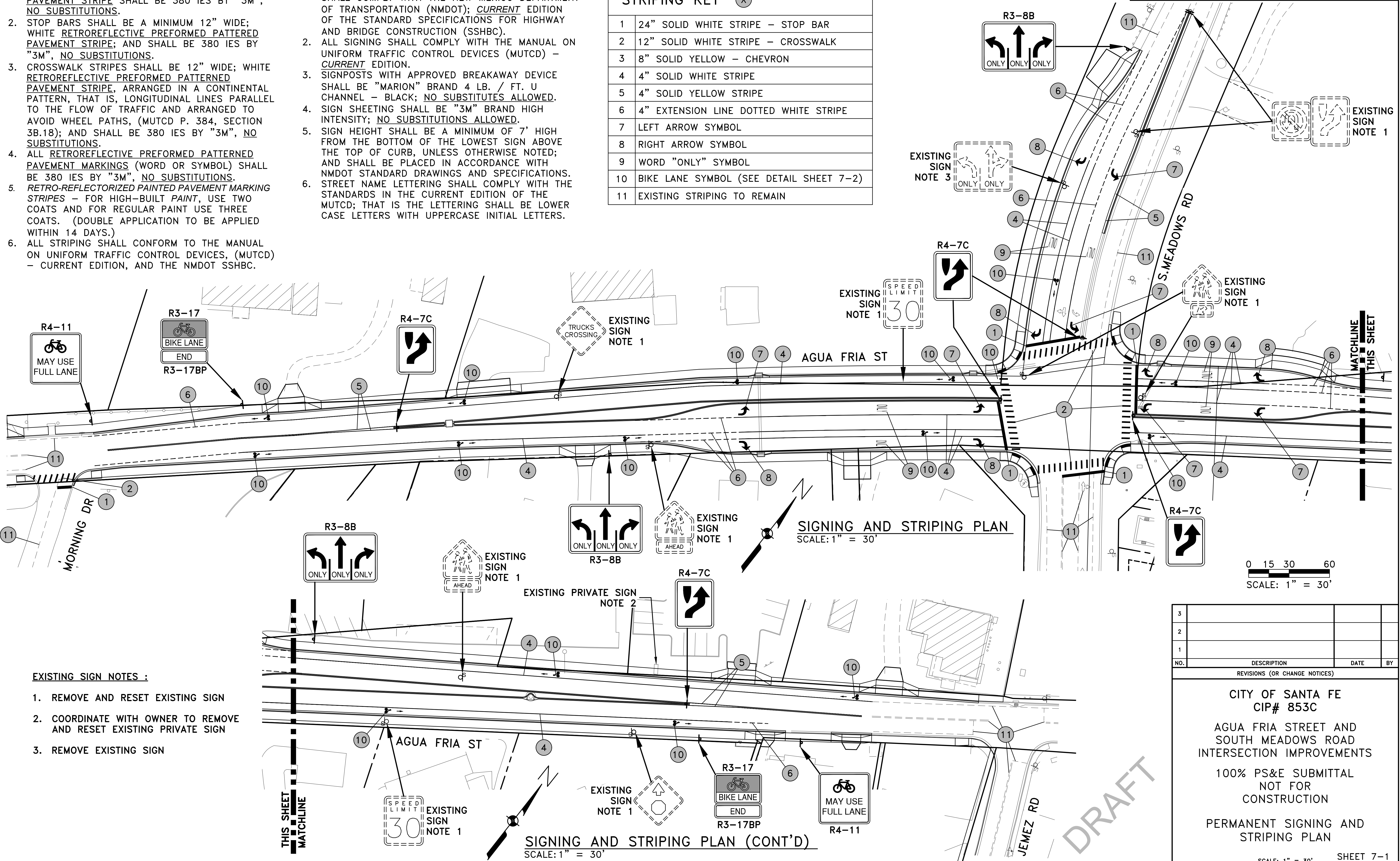
1. ALL RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE SHALL BE 380 IES BY "3M", NO SUBSTITUTIONS.
2. STOP BARS SHALL BE A MINIMUM 12" WIDE; WHITE RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE; AND SHALL BE 380 IES BY "3M", NO SUBSTITUTIONS.
3. CROSSWALK STRIPES SHALL BE 12" WIDE; WHITE RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT STRIPE, ARRANGED IN A CONTINENTAL PATTERN, THAT IS, LONGITUDINAL LINES PARALLEL TO THE FLOW OF TRAFFIC AND ARRANGED TO AVOID WHEEL PATHS, (MUTCD P. 384, SECTION 3B.18); AND SHALL BE 380 IES BY "3M", NO SUBSTITUTIONS.
4. ALL RETROREFLECTIVE PREFORMED PATTERNED PAVEMENT MARKINGS (WORD OR SYMBOL) SHALL BE 380 IES BY "3M", NO SUBSTITUTIONS.
5. RETRO-REFLECTORIZED PAINTED PAVEMENT MARKING STRIPES - FOR HIGH-BUILT PAINT, USE TWO COATS AND FOR REGULAR PAINT USE THREE COATS. (DOUBLE APPLICATION TO BE APPLIED WITHIN 14 DAYS.)
6. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) - CURRENT EDITION, AND THE NMDOT SSHBC.

**SIGN AND POST REQUIREMENTS**

1. ALL ALUMINUM PANEL SIGNING AND STEEL POSTS SHALL COMPLY WITH THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT); CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (SSHBC).
2. ALL SIGNING SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) - CURRENT EDITION.
3. SIGNPOSTS WITH APPROVED BREAKAWAY DEVICE SHALL BE "MARION" BRAND 4 LB. / FT. U CHANNEL - BLACK; NO SUBSTITUTES ALLOWED.
4. SIGN SHEETING SHALL BE "3M" BRAND HIGH INTENSITY; NO SUBSTITUTIONS ALLOWED.
5. SIGN HEIGHT SHALL BE A MINIMUM OF 7' HIGH FROM THE BOTTOM OF THE LOWEST SIGN ABOVE THE TOP OF CURB, UNLESS OTHERWISE NOTED; AND SHALL BE PLACED IN ACCORDANCE WITH NMDOT STANDARD DRAWINGS AND SPECIFICATIONS. STREET NAME LETTERING SHALL COMPLY WITH THE STANDARDS IN THE CURRENT EDITION OF THE MUTCD; THAT IS THE LETTERING SHALL BE LOWER CASE LETTERS WITH UPPERCASE INITIAL LETTERS.
- 6.

**STRIPING KEY** (X)

1	24" SOLID WHITE STRIPE - STOP BAR
2	12" SOLID WHITE STRIPE - CROSSWALK
3	8" SOLID YELLOW - CHEVRON
4	4" SOLID WHITE STRIPE
5	4" SOLID YELLOW STRIPE
6	4" EXTENSION LINE DOTTED WHITE STRIPE
7	LEFT ARROW SYMBOL
8	RIGHT ARROW SYMBOL
9	WORD "ONLY" SYMBOL
10	BIKE LANE SYMBOL (SEE DETAIL SHEET 7-2)
11	EXISTING STRIPING TO REMAIN

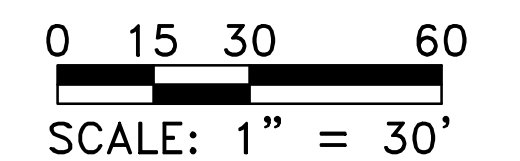


**EXISTING SIGN NOTES :**

1. REMOVE AND RESET EXISTING SIGN
2. COORDINATE WITH OWNER TO REMOVE AND RESET EXISTING PRIVATE SIGN
3. REMOVE EXISTING SIGN

**SIGNING AND STRIPING PLAN**  
SCALE: 1" = 30'

**SIGNING AND STRIPING PLAN (CONT'D)**  
SCALE: 1" = 30'

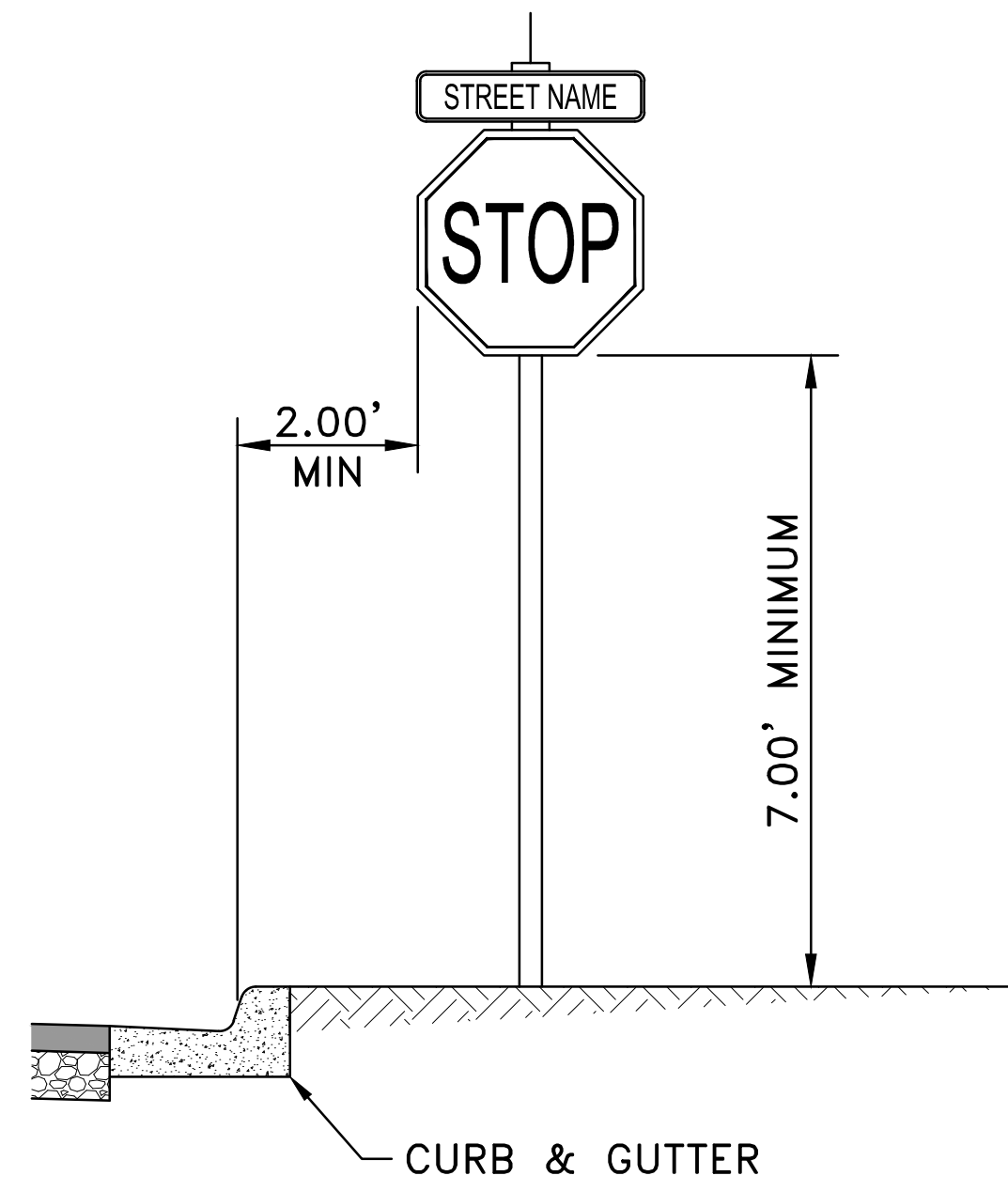


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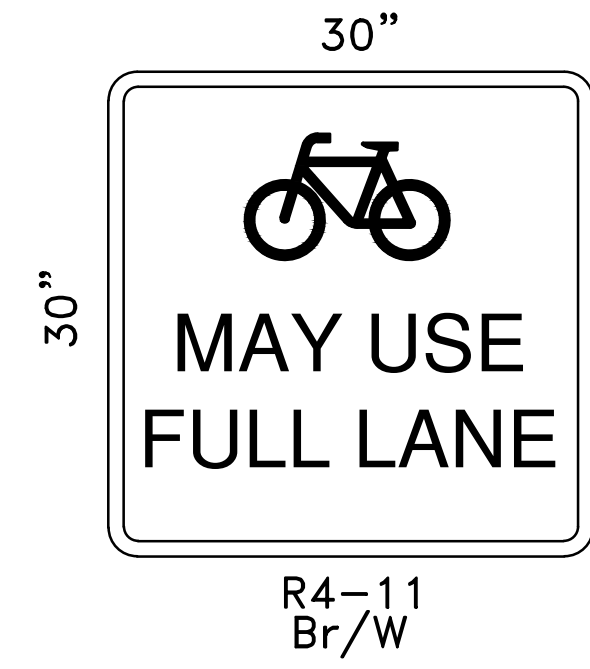
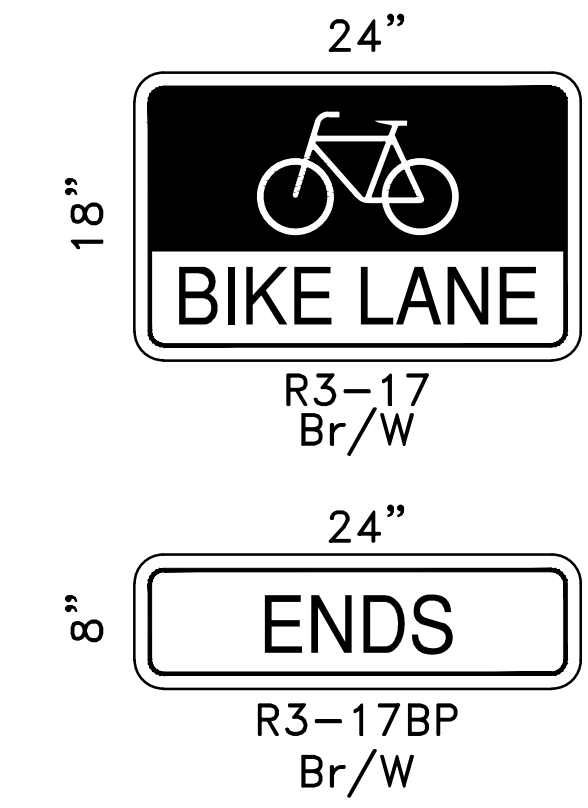
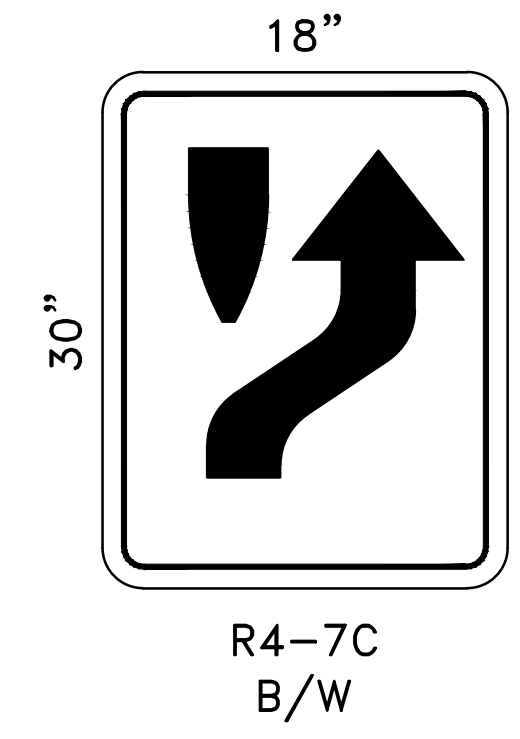
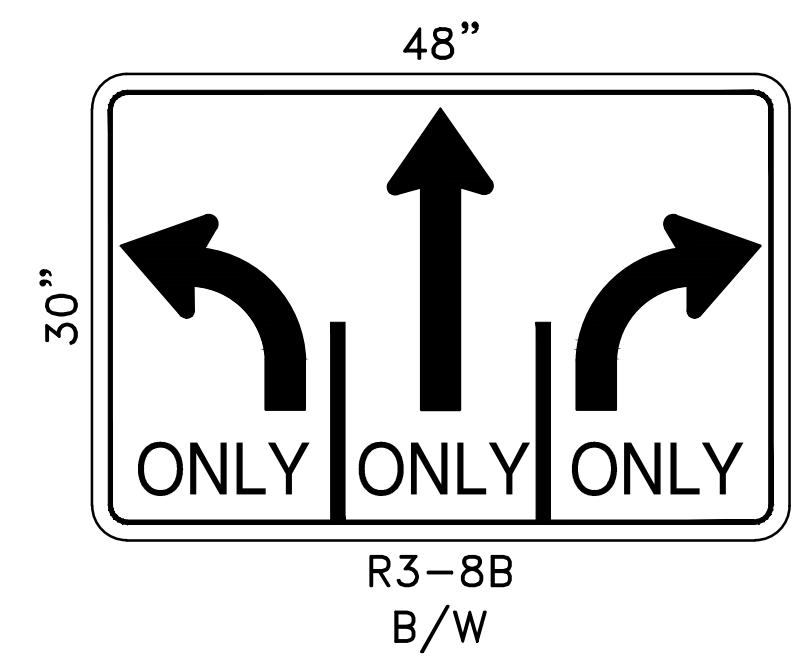
CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL NOT FOR CONSTRUCTION  
PERMANENT SIGNING AND STRIPING PLAN

DRAFT

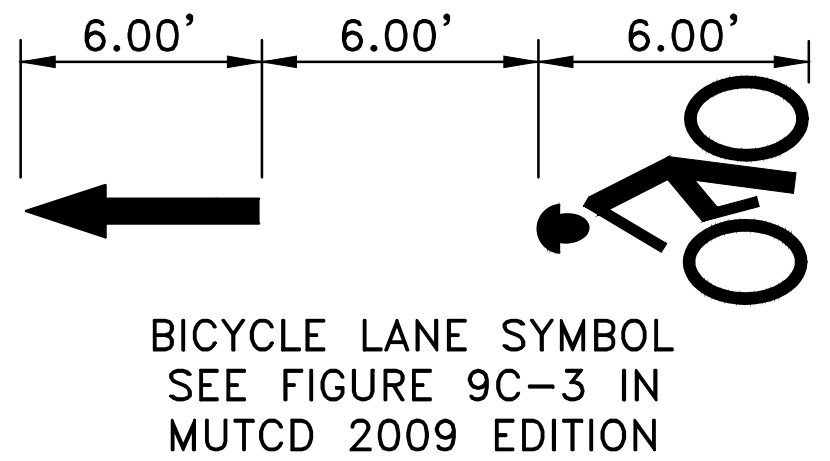




**SIGN PLACEMENT DETAIL**  
SCALE: N.T.S.



**SIGN FACE DETAILS**  
SCALE: N.T.S.



PERMANENT STRIPING QUANTITIES			
DESCRIPTION	ITEM	UNITS	TOTALS
REMOVE AND RESET PANEL SIGN	701030	EACH	9
3M PAVEMENT MARKING RIGHT ARROW	704717	EACH	6
3M PAVEMENT MARKING LEFT ARROW	704718	EACH	6
3M PAVEMENT MARKING WORD (ONLY)	704720	EACH	6
3M PAVEMENT MARKING BIKE SYMBOL (BIKEWAY)	704732	EACH	14
HOT THERMOPLASTIC PAVEMENT MARKINGS (4")	704754	LIN. FT.	5005
HOT THERMOPLASTIC PAVEMENT MARKINGS (12")	704762	LIN. FT.	428
HOT THERMOPLASTIC PAVEMENT MARKINGS (24")	704764	LIN. FT.	163

NO.	DESCRIPTION	DATE	BY
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C

AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

PERMANENT SIGNING AND STRIPING  
QUANTITIES AND DETAILS

SCALE: N.T.S. SHEET 7-2

DRAFT



CITY OF SANTA FE  
ARTERIAL / COLLECTOR ROADWAY LIGHTING STANDARDS

FIXTURE PLACEMENT

COMPLY WITH LATEST ANSI/IESNA RP-8-00 STANDARD PRACTICE FOR ROADWAY LIGHTING

FIXTURE REQUIREMENTS

LED ROADWAY FIXTURE, TYPE 3 DISTRIBUTION, 250W HPS EQUIVALENT

MINIMUM FIXTURE EFFICACY REQUIREMENTS:

100 HPS EQUIVALENT:  
3700 LUMENS MINIMUM  
50 WATT MAX  
80 LU / WATT EFFICACY

250 HPS EQUIVALENT:  
11,800 LUMENS MINIMUM  
150 WATT MAX  
80 LU / WATT EFFICACY

400 HPS EQUIVALENT:  
20,000 LUMENS  
250 WATT MAX  
80 LU / WATT EFFICACY

NO PHOTOCELL REQUIRED  
APPROVED MANUFACTURER'S:  
GE ROADWAY LIGHTING  
AMERICAN ELECTRIC LIGHTING COMPANY  
COOPER NAVION LIGHTING SYSTEMS

POLE REQUIREMENTS

TAPERED ALUMINUM POLE  
NOMINAL 30 FOOT MAXIMUM HEIGHT FOR COLLECTOR ROADWAYS  
NOMINAL 40 FOOT MAXIMUM HEIGHT FOR ARTERIAL ROADWAYS  
10 FOOT ALUMINUM ARM  
FUSED BASE  
BREAKAWAY BASE

CONCRETE POLE BASE

USE NMDOT POLE BASE STANDARD  
ALTERNATE CONCRETE BASE DESIGN MUST BE STAMPED BY ENGINEER.

WIRING METHODS

UNDERGROUND CONDUIT, SCHEDULE 40 PVC, 2 INCH MINIMUM, BURIED 36 INCHES BFG.  
COPPER WIRE ONLY, SIZED FOR MAXIMUM VOLTAGE DROP OF 5 PERCENT AT THE LAST FIXTURE. MINIMUM SIZE SHALL BE #2 CU.

POLYMER PULLBOXES

USE NMDOT PULLBOX SPECIFICATION AND INSTALLATION STANDARDS REQUIRED AT EACH POLE

METERED POWER PEDESTAL

USE NMDOT STANDARDS  
SIX CIRCUIT MINIMUM CAPACITY.  
INTEGRAL PHOTOCELL CONTROL OF LIGHTING CIRCUITS

LED LUMINAIRE WARRANTY

- A. THE ENTIRE LUMINAIRE ASSEMBLY INCLUDING MATERIALS, WORKMANSHIP, PHOTOMETRICS, LABOR, POWER SUPPLY AND LED MODULES SHALL HAVE A MINIMUM FIVE (5) YEAR WARRANTY FROM THE DATE OF ACCEPTANCE.
- B. IF MORE THAN 5% OF THE INDIVIDUAL LED'S FAIL WITHIN THE WARRANTY PERIOD THE LUMINAIRE MUST BE REPAIRED OR REPLACED.
- C. THE WARRANTY WILL NOT BE AFFECTED BY OPENING THE POWER DOOR AND/OR ACCESSING THE ELECTRICAL CAVITY.
- D. THE SPECIFIED PAINT FINISH SHALL HAVE A MINIMUM FIVE (5) YEAR WARRANTY FROM THE DATE OF ACCEPTANCE.

LIGHTING INCIDENTAL ITEMS

1. ANCHOR BOLTS FOR FOUNDATIONS.
2. GROUND RODS FOR FOUNDATIONS.
3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
4. CONCRETE FOUNDATION FOR LIGHTING CONTROL CABINETS INCLUDING EXCAVATION, BACKFILL, CONCRETE GROUND RODS, AND ANCHOR BOLTS.
5. REWIRING OF ANY EXISTING LUMINAIRES TO REMAIN OR BE RESET.
6. TRAINING FOR AND ADJUSTMENTS OF HIGH MAST LIGHTING SYSTEMS.
7. COSTS FOR LOCAL POWER COMPANY TO PROVIDE POWER SERVICE.
8. BREAKAWAY SYSTEMS FOR LIGHTING STANDARDS.
9. PROVIDE DOUBLE FUSING IN THE BASE OF EACH LIGHTING STANDARD.

LIGHTING GENERAL NOTES

1. CONTRACTOR SHALL CONTACT NMDOT PRODUCT EVALUATION COMMITTEE OR CITY OF SANTA FE TRAFFIC DEPARTMENT FOR APPROVED PRODUCTS LISTING FOR ROADWAY LIGHTING COMPONENTS.
2. THE CONTRACTOR SHALL COORDINATE WITH THE TRAFFIC ENGINEERING CONSULTANT AND PROVIDE THE (CITY OF SANTA FE) WITH A SET OF AS-BUILT DRAWINGS OF THE STREET LIGHTING.
3. LOCATIONS OF CONDUIT, FOUNDATIONS, PULL BOXES, AND CONTROL CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
4. LIGHT STANDARDS SHALL HAVE BREAKAWAY SYSTEM. BREAKAWAY SYSTEMS WILL BE CONSIDERED INCIDENTAL TO THE STANDARD.
5. ALL ROADWAY AND OVERHEAD SIGN LIGHTING CIRCUITS ON THIS PROJECT SHALL BE (240 VOLTS/480 VOLTS)
6. EACH CIRCUIT FOR ROADWAY LIGHTING SHALL BE INSTALLED IN SEPARATE CONDUITS UNLESS APPROVED OTHERWISE.
7. EACH TIME A ROADWAY LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:  
  
PNM  
CITY OF SANTA FE
8. POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
9. RESPONSIBILITY AND MAINTENANCE OF LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT SHALL BE AS FOLLOWS:  
  
A. ROADWAY LIGHTING SHALL BE ACCEPTED AND MAINTAINED BY CITY OF SANTA FE. THE CONTRACTOR SHALL PROVIDE CITY OF SANTA FE AND PNM FIVE (5) WORKING DAYS NOTICE IN ADVANCE OF TURNING ON THE SYSTEM TO ALLOW CITY OF SANTA FE AND PNM TO INSPECT AND APPROVE THE SYSTEM BEFORE IT IS TURNED ON.
10. THE CONTRACTOR SHALL PAY FOR COSTS FOR PNM TO PROVIDE POWER SERVICE. THESE COSTS WILL BE MEASURED AND PAID UNDER CONTRACT ITEM "POWER SERVICE INSTALLATION." LUMP SUM FOR POWER SERVICE SHALL INCLUDE WORK AS SHOWN ON PLANS.
11. THE CONTRACTOR SHALL FURNISH AND INSTALL TYPE III, FULL CUTOFF FLAT GLASS LUMINAIRES TO CONFORM WITH THE NEW MEXICO NIGHT SKY PROTECTION ACT.
12. THE CONTRACTOR SHALL ARRANGE A NIGHT INSPECTION OF THE LIGHTING SYSTEM WITH THE PROJECT MANAGER, CITY OF SANTA FE, AND PNM TO ENSURE COMPLIANCE WITH THE NEW MEXICO NIGHT SKY PROTECTION ACT AND PROPER LEVELING OF LUMINAIRE HEADS.
13. LIGHTING CONTROL CABINETS SHALL BE OF THE FOLLOWING TYPE:  
  
A. 6 CIRCUIT  
METERED  
  
LIGHTING IS TO BE SERVED BY METER PEDESTAL.
14. LIGHTING STANDARDS SHALL BE LOCATED AS FOLLOWS:  
  
A. ON SECTIONS WITH CURB, GUTTER, AND SIDEWALK, PLACE FOUNDATION DIRECTLY BEHIND SIDEWALK  
  
B. ON SECTIONS WITH CURB AND GUTTER WITHOUT SIDEWALK, PLACE FOUNDATION 10' BACK FROM CURB AND GUTTER  
  
C. ON SECTIONS WITHOUT CURB AND GUTTER, PLACE FOUNDATION 12' BACK FROM EDGE OF DRIVING LANE.
15. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN VERTICAL CLEARANCE
16. LIGHTING SHALL BE COMPLETED WITH CONSTRUCTION PHASING. NEW LIGHTING SHALL BE OPERATIONAL PRIOR TO OPENING THE ROADWAY TO TRAFFIC.
17. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE MINIMUM OF 30" DEEP AND FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE THE CONDUIT.
18. ALL CONDUITS, INCLUDING ANY EMPTY CONDUITS SHALL HAVE A BARE #8 COPPER GROUND INSTALLED.

CITY OF SANTA FE  
ADDITIONAL INSTALLATION REQUIREMENTS

1. UNDERGROUND CONDUCTORS SHALL RUN CONTINUOUS THROUGH THE PULL BOX TO THE LIGHT POLE AND SHALL ONLY BE SPLICED IN THE LIGHT POLE.
2. LEAVE 3 FEET OF SLACK WIRE COILED IN EACH PULL BOX.

GENERAL ELECTRICAL NOTES

1. WORK COVERED BY THESE DRAWINGS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS, AND PERFORMING ALL OPERATIONS, INCLUDING CUTTING, CHANNELING, AND UNDERGROUND SYSTEMS AS INDICATED.
2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER IN FULL ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), AND LOCAL AND STATE SAFETY CODES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION WITH UTILITY COMPANIES. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN. THERE SHALL BE NO EXTRA COSTS TO THE OWNER FOR CONTRACTOR'S FAILURE TO COORDINATE UTILITY REQUIREMENTS.
4. SHOULD THE CONTRACTOR DETECT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND LEGAL OR SAFETY REQUIREMENTS FOR THE PROJECT, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING. ONCE NOTIFIED, THE ENGINEER SHALL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS WITH ANY WORK WHICH IS IN VARIANCE OF KNOWN LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THIS WORK AND SHALL PROMPTLY CORRECT THE WORK WHEN NOTIFIED WITHOUT ADDITIONAL COST TO THE OWNER.
5. APPROVED WIRING METHODS:  
1. BUILDING WIRE IN PVC CONDUIT, WHERE UNDERGROUND  
2. BUILDING WIRE IN EMT OR IMC CONDUIT WHERE EXPOSED
6. ALL WIRING SHALL BE COPPER, THHN/THWN INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12.
7. EXTERIOR WIRING AND DEVICES SHALL BE INSTALLED IN CONDUIT WITH WEATHER-TIGHT FITTINGS AND IN WEATHER-TIGHT BOXES.
8. ALL METALLIC RACEWAY IN CONTACT WITH EARTH SHALL BE COATED. PROVIDE EITHER PLASTIBOND OR 2 LAYERS SCOTCH #51 HALF-LAPPED.

**AEDI** 5101 Coors Blvd. NW  
Suite "F"  
Albuquerque, New Mexico 87120  
(505)262-1766  
(505)255-0466 fax

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C  
  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS  
  
90% SUBMITTAL  
NOT FOR  
CONSTRUCTION  
  
ROADWAY LIGHTING, GENERAL  
NOTES AND STANDARDS

SCALE: N.T.S.



CITY OF SANTA FE  
ADDITIONAL INSTALLATION REQUIREMENTS

1. UNDERGROUND CONDUCTORS SHALL RUN CONTINUOUS THROUGH THE PULL BOX TO THE LIGHT POLE AND SHALL ONLY BE SPLICED IN THE LIGHT POLE.
2. LEAVE 3 FEET OF SLACK WIRE COILED IN EACH PULL BOX.

SYMBOL LEGEND

- STREET LIGHT ON 14' ARM
- STREET LIGHT ON 6' ARM
- LIGHTING SERVICE AND CONTROL PEDESTAL
- PULL BOX
- UGS- UNDERGROUND LIGHTING CIRCUIT. 240 VOLTS.

ROADWAY LIGHTING - FIXTURE SCHEDULE

FIXT TYPE	DESCRIPTION	MANUFACTURER	FIXTURE MODEL NUMBER	LAMP DATA TYPE	WATTS	MOUNTING
A	LED ROADWAY LIGHTING FIXTURE TYPE 3 DISTRIBUTION	GENERAL ELECTRIC	ERL2-0-16C3-40-A-GRAY-F 30' TRAFFIC SIGNAL POLE, 14FT ARM	LED	120	POLE MOUNTED
B	LED ROADWAY LIGHTING FIXTURE TYPE 3 DISTRIBUTION	GENERAL ELECTRIC	ERL2-0-16C3-40-A-GRAY-F 30 FOOT POLE, 6FT ARM	LED	120	POLE MOUNTED

LIGHTING FIXTURES AND ARMS SHALL BE APPROVED BY CITY OF SANTA FE TRAFFIC DIVISION PRIOR TO RELEASE OF PRODUCTS FOR SHIPMENT.

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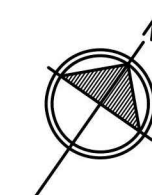
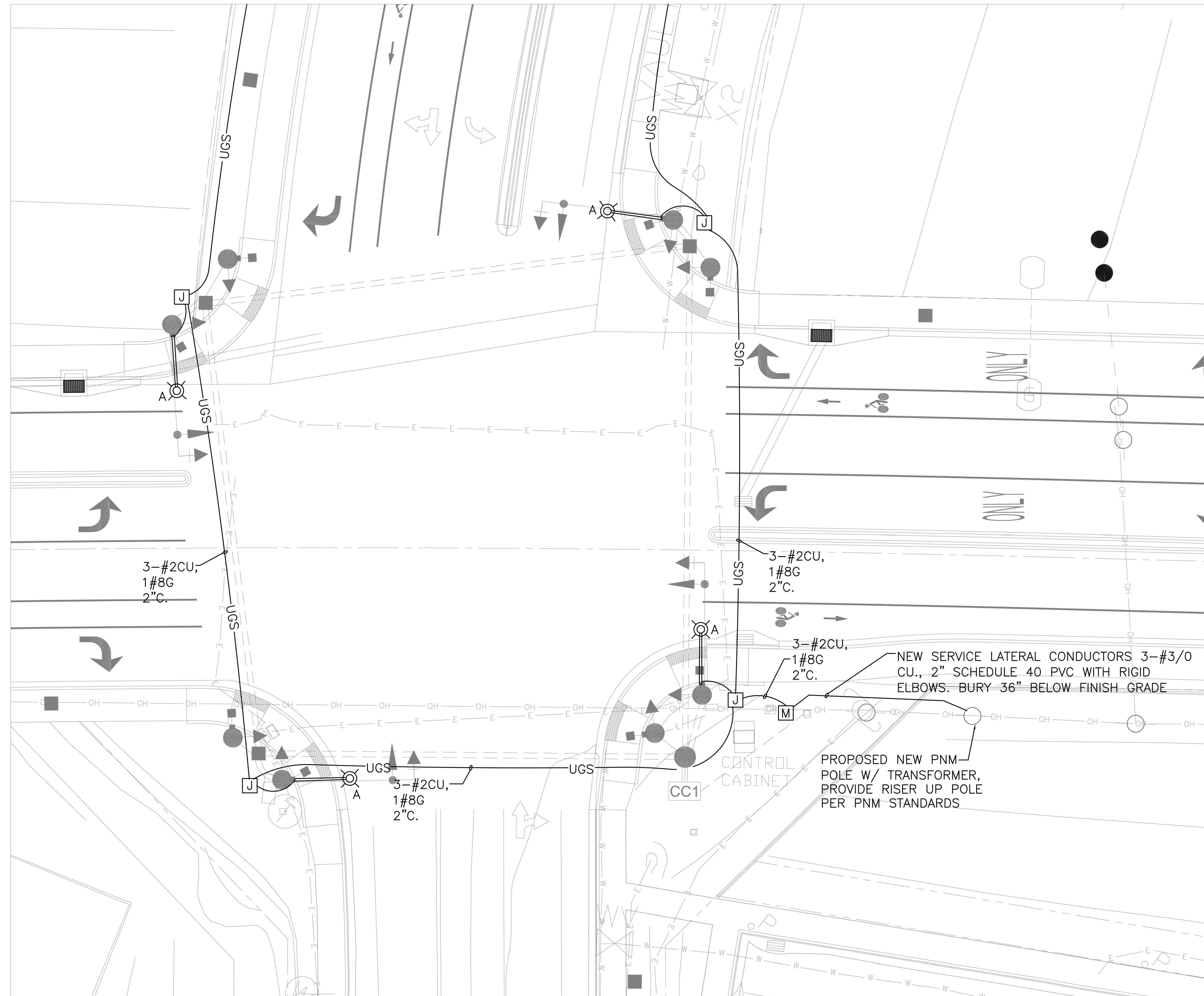
CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

90% SUBMITTAL  
NOT FOR  
CONSTRUCTION

ROADWAY/INTERSECTION  
LIGHTING PLAN

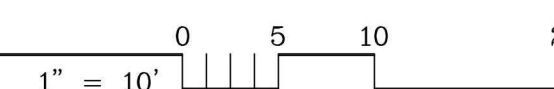
SCALE: N.T.S.

SHEET 8-2



**ROADWAY LIGHTING PLAN**

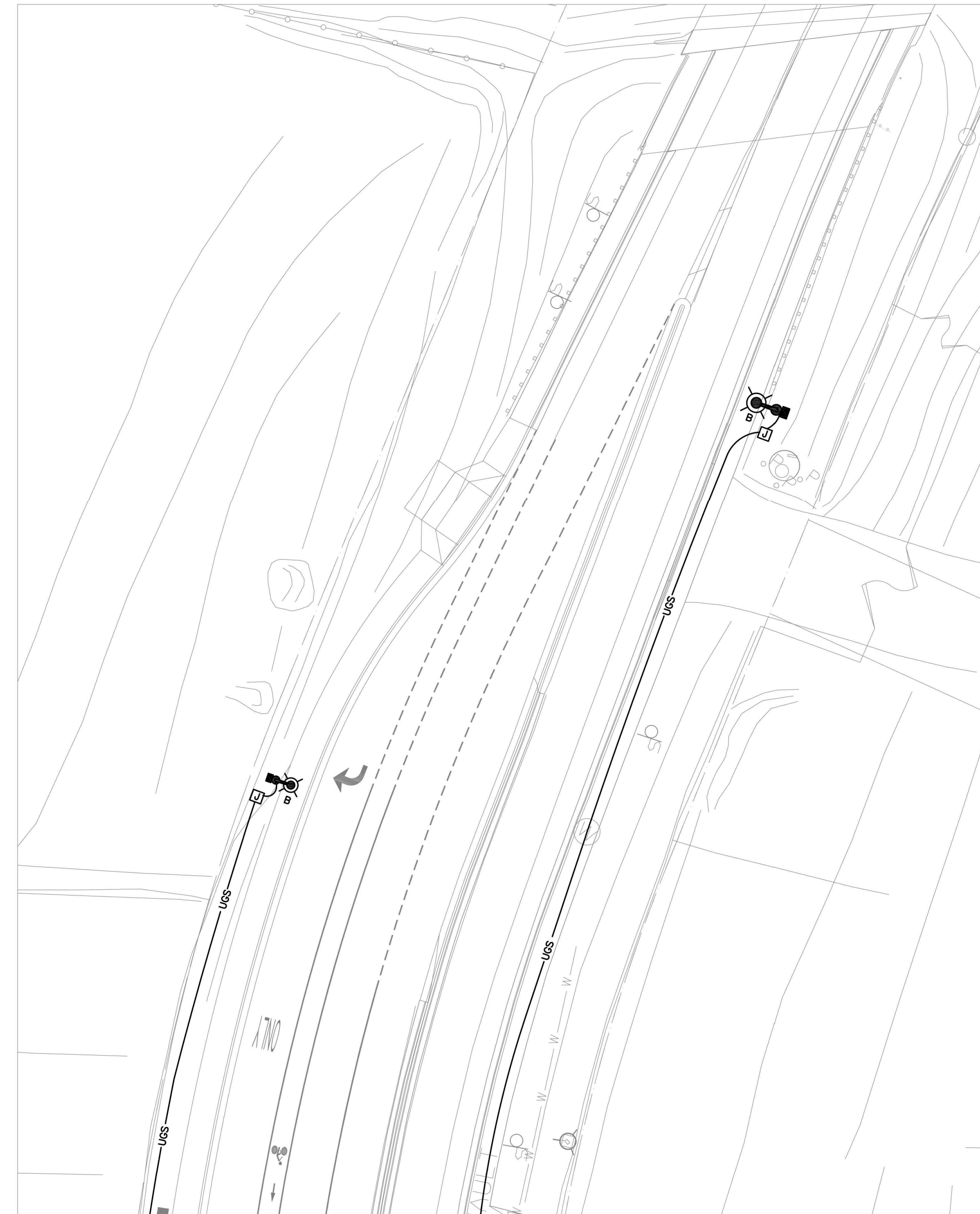
INTERSECTION AT AGUA FRIA AND SOUTH MEADOWS





CITY OF SANTA FE  
ADDITIONAL INSTALLATION REQUIREMENTS

1. UNDERGROUND CONDUCTORS SHALL RUN CONTINUOUS THROUGH THE PULL BOX TO THE LIGHT POLE AND SHALL ONLY BE SPLICED IN THE LIGHT POLE.
2. LEAVE 3 FEET OF SLACK WIRE COILED IN EACH PULL BOX.



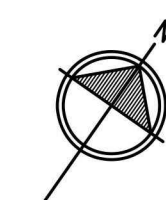
SYMBOL LEGEND

- STREET LIGHT ON 14' ARM
- STREET LIGHT ON 6' ARM
- LIGHTING SERVICE AND CONTROL PEDESTAL
- PULL BOX
- UGS- UNDERGROUND LIGHTING CIRCUIT. 240 VOLTS.

ROADWAY LIGHTING - FIXTURE SCHEDULE

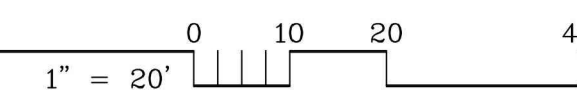
FIXT TYPE	DESCRIPTION	MANUFACTURER	FIXTURE MODEL NUMBER	LAMP DATA		
				TYPE	WATTS	MOUNTING
A	LED ROADWAY LIGHTING FIXTURE TYPE 3 DISTRIBUTION	GENERAL ELECTRIC	ERL2-0-16C3-40-A-GRAY-F 30' TRAFFIC SIGNAL POLE, 14FT ARM	LED	120	POLE MOUNTED
B	LED ROADWAY LIGHTING FIXTURE TYPE 3 DISTRIBUTION	GENERAL ELECTRIC	ERL2-0-16C3-40-A-GRAY-F 30 FOOT POLE, 6FT ARM	LED	120	POLE MOUNTED

LIGHTING FIXTURES AND ARMS SHALL BE APPROVED BY  
CITY OF SANTA FE TRAFFIC DIVISION PRIOR TO  
RELEASE OF PRODUCTS FOR SHIPMENT.



ROADWAY LIGHTING PLAN

SOUTH MEADOWS ROAD



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Albuquerque, New Mexico 87120  
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(505)255-0466 fax

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REVISIONS (OR CHANGE NOTICES)

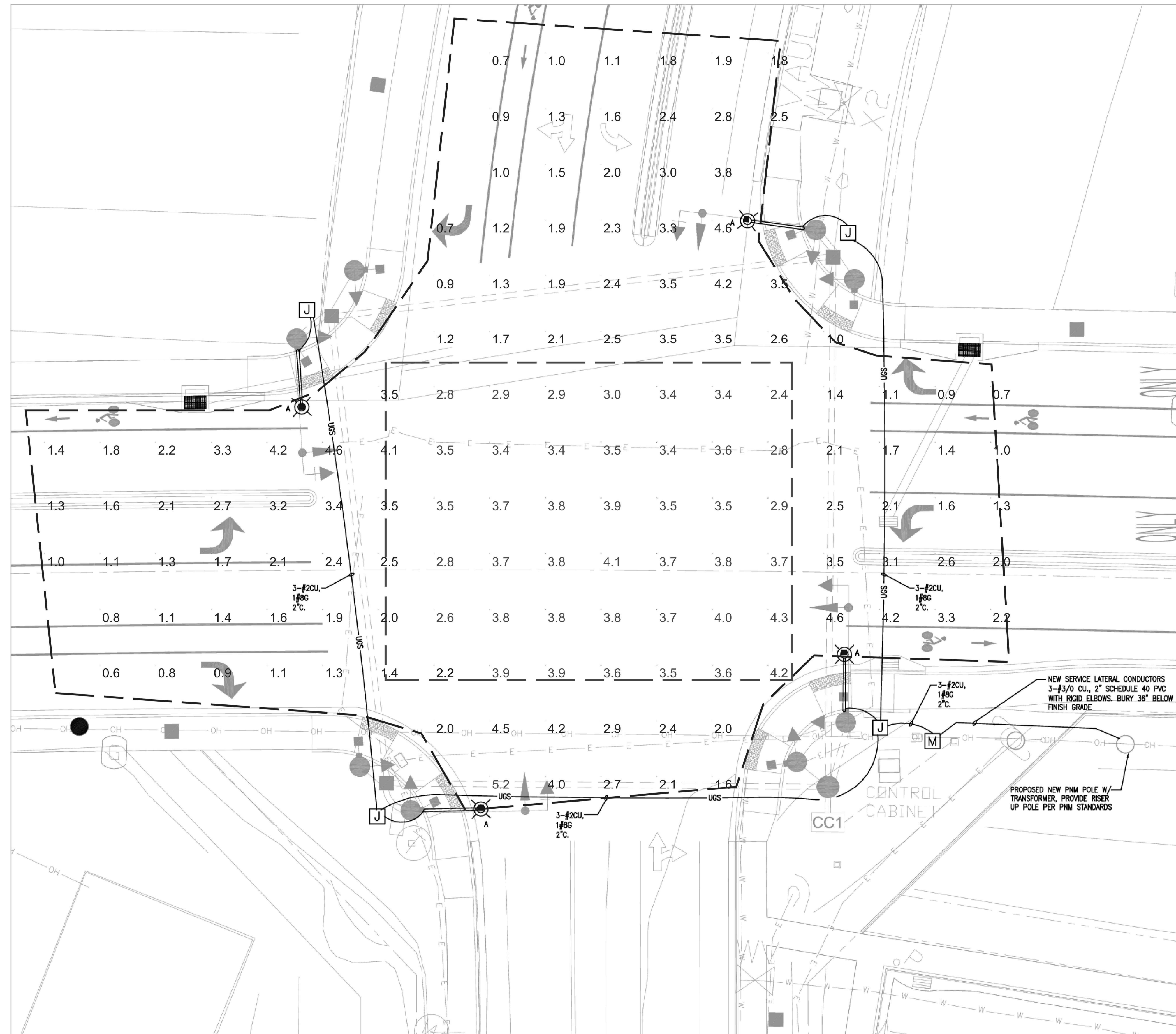
CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

90% SUBMITTAL  
NOT FOR  
CONSTRUCTION

ROADWAY/INTERSECTION  
LIGHTING PLAN

SCALE: N.T.S.





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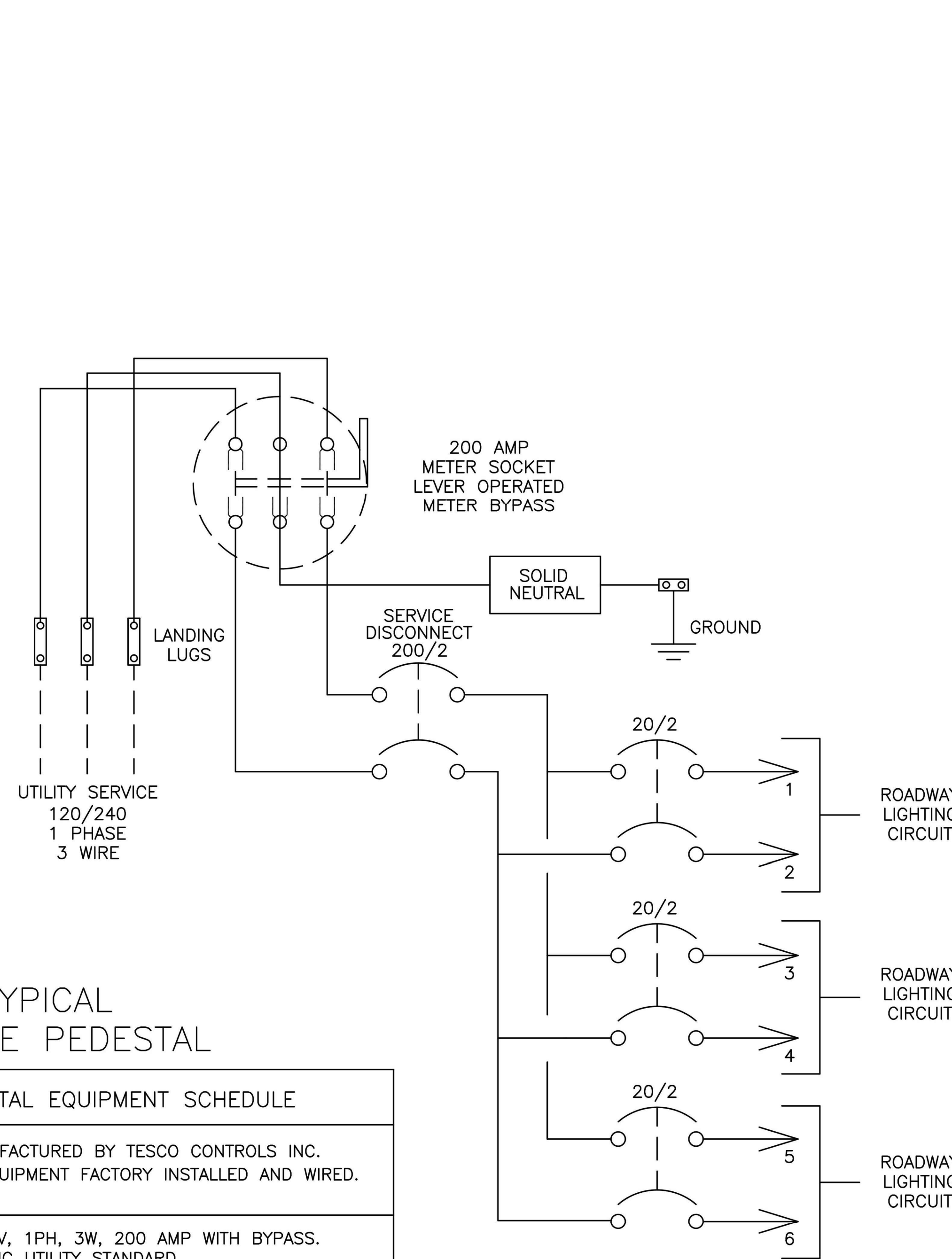
CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

90% SUBMITTAL  
NOT FOR  
CONSTRUCTION

IES PHOTOMETRIC PLAN

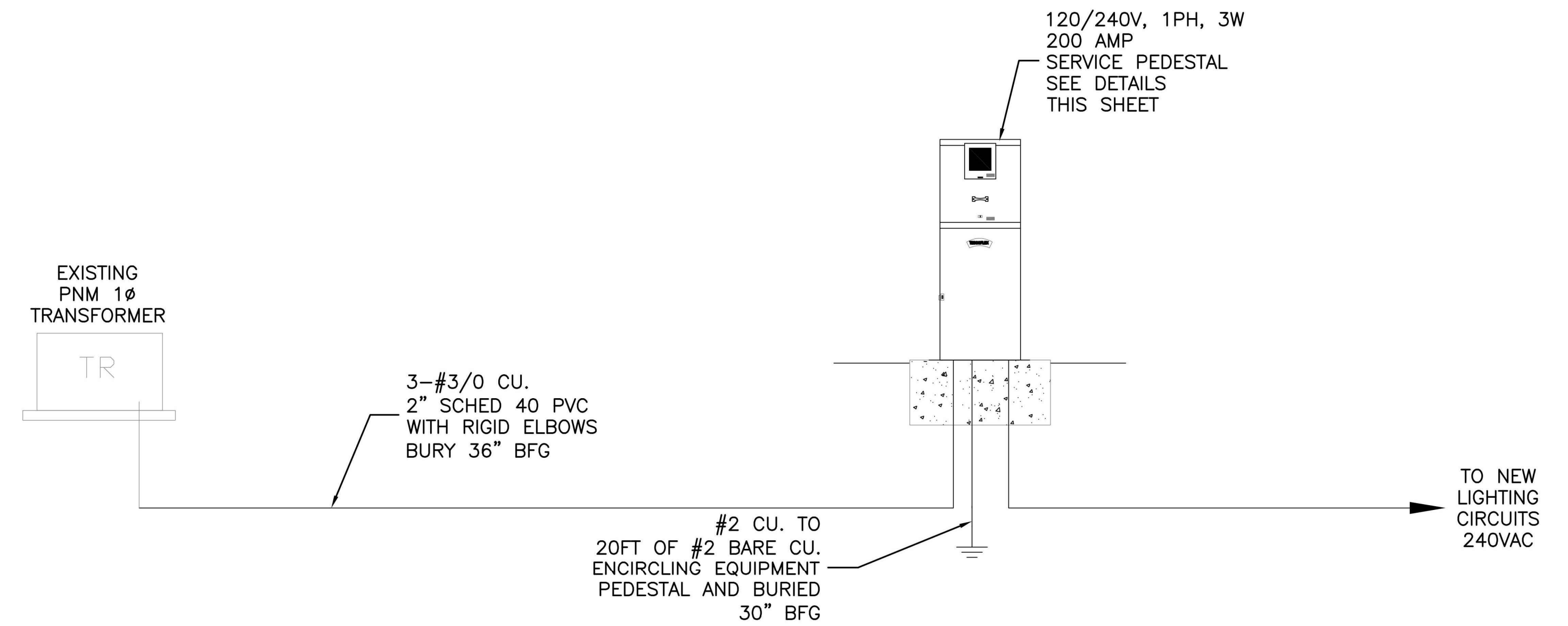
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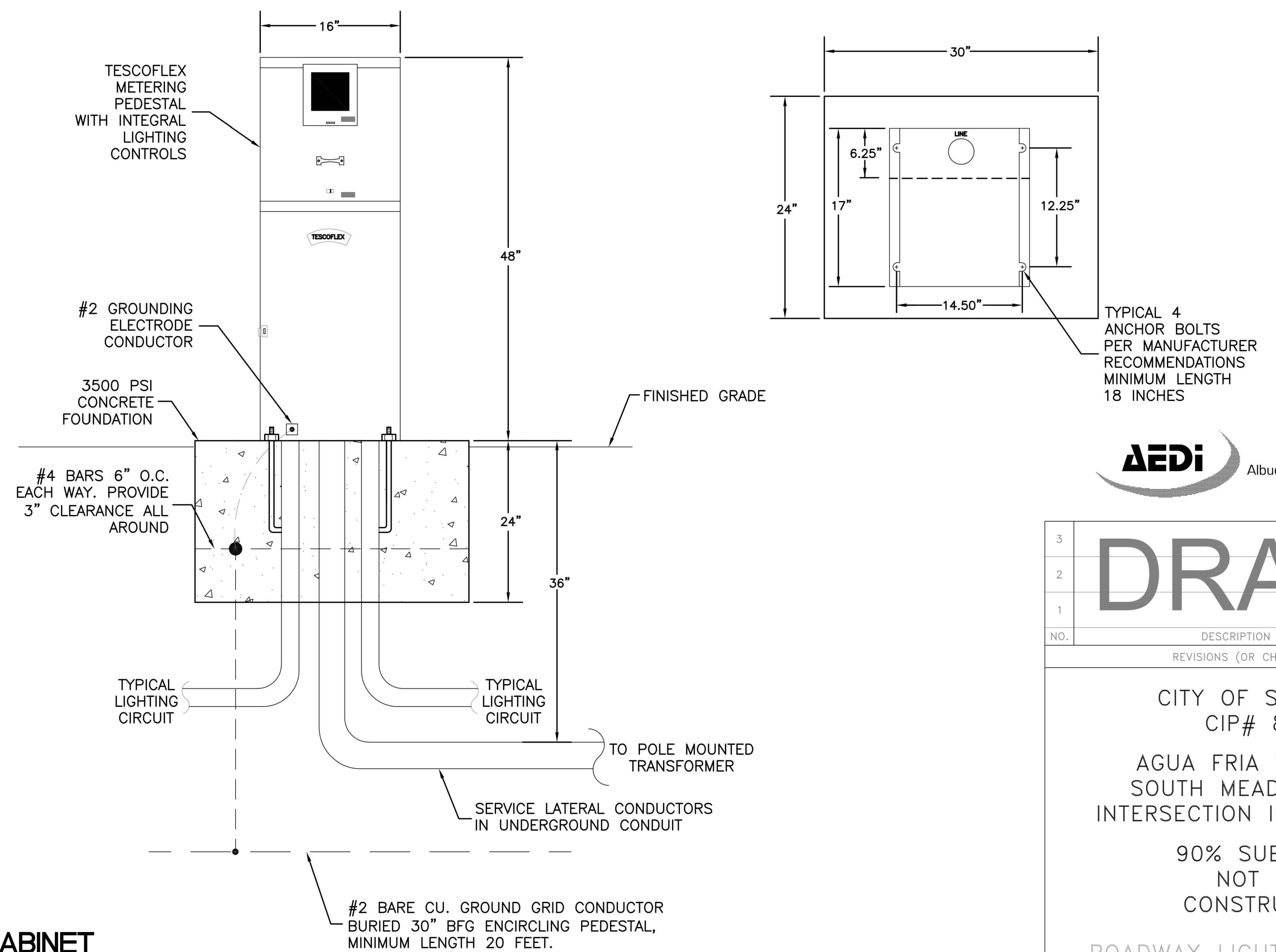
TYPICAL SERVICE PEDESTAL

SERVICE PEDESTAL EQUIPMENT SCHEDULE	
SERVICE PEDESTAL MANUFACTURED BY TESCO CONTROLS INC. WITH THE FOLLOWING EQUIPMENT FACTORY INSTALLED AND WIRED.	
1	METER SOCKET 120/240V, 1PH, 3W, 200 AMP WITH BYPASS. MUST MEET PNM ELECTRIC UTILITY STANDARD.
2	POWER DISTRIBUTION PANEL 120/240V, 200 AMP MAIN BREAKER. COPPER BUS, 22,000 AIC., MINIMUM 6 CIRCUITS.
3	PAINTED STEEL ENCLOSURE.
4	LIGHTING CONTACTOR, 20A-6P WITH HAND/OFF/AUTO SWITCH
5	PHOTOCELL



ELECTRICAL SERVICE RISER DIAGRAM

SCALE: NONE



LIGHTING CONTROL CABINET (SERVICE PEDESTAL) - DETAILS

SCALE: NONE

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Albuquerque, New Mexico 87120  
(505)262-1766  
(505)255-0466 fax

**DRAFT**

NO.	DESCRIPTION	DATE	BY
3	REVISIONS (OR CHANGE NOTICES)		

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

90% SUBMITTAL  
NOT FOR  
CONSTRUCTION

ROADWAY LIGHTING CONTROL  
CABINET DETAILS

SCALE: N.T.S.



ORDERING INFORMATION					
POLE ONLY			POLE WITH ALTERNATE SECTION		
IIA			IIA		

GENERAL SIGNAL AND LIGHTING STANDARDS DATA					
TYPE	# OF SIGNALS	A (FT)	B (FT)	C (FT)	
IIA	1	VARIABLE	20	20'-3"	VARIABLE
	1	VARIABLE	25	20'-3"	VARIABLE
	2	VARIABLE	30	20'-3"	VARIABLE
	2	VARIABLE	35	20'-3"	VARIABLE

LUMINAIRE ARM DATA										
TYPE	L LENGTH (FT)	MINIMUM O.D. AT POLE D5 (IN)	MINIMUM O.D. AT FREE END D6 (IN)	ARM THICKNESS t _{arm-pl} (IN)	E (IN)	ARM PLATE t _{arm-pl} (IN)	BOLT CIRCLE # (IN)	F (IN)	POLE PLATE t _{pole-pl} (IN)	DIAMETER OF BOLTS
IIA	17	5	2.4	0.1875	10	1	8 1/2	10	1	5/8

LUMINAIRE EXTENSION					
TYPE	C (H-B) (FT)	MINIMUM O.D. AT BASE D7 (IN)	MIN. O.D. AT TOP D2 (IN)	MIN. THICKNESS t _{ext} (IN)	TOTAL HEIGHT H (FT)
IIA	VARIABLE	9.95	VARIABLE	0.3125	MIN. 30', MAX. 42'

POLE DATA									
TYPE	B (FT)	MINIMUM O.D. AT BASE D1 (IN)	MIN. O.D. AT TOP D7 (IN)	MIN. THICKNESS t _{pole} (IN)	BASE PLATE K (IN)	t _{base-pl} (IN)	BOLT CIRCLE # (IN)	DIAMETER OF BOLTS	NUMBER OF BOLTS
IIA	20'-3"	12 1/2	9.95	0.3125	21	2.5	19	1 1/2	4

SIGN & SIGNAL ARM DATA							
TYPE	A (FT)	MINIMUM O.D. AT POLE D3 (IN)	MIN. O.D. AT FREE END D4 (IN)	MIN. ARM THICKNESS t _{arm-pl} (IN)	POLE PLATE t _{pole-pl} (IN)	DIAMETER OF BOLTS	NUMBER OF BOLTS
IIA	20	10 1/2	7.7	0.3125	2	2	1 1/2
	25	10 1/2	7	0.3125	2	2	1 1/2
	30	10 1/2	6.3	0.3125	2	2	1 1/2
	35	10 1/2	5.6	0.3125	2	2	1 1/2

**STANDARD POLE**

FOR DETAILS, SEE "SIGNAL MOUNTING DETAILS" SERIAL: 707S-04-1/3

REMOVABLE CAP WITH CLOSE NIPPLE

18" X 18" MAX. SIGN

96" X 18" MAX. SIGN

1 1/2" COUPLINGS (TYP)

VIBRATION DAMPER SEE SERIAL 707S-04-1/3 OF TYPE II AND III SUPPORT STRUCTURES FOR ARMS 30' OR GREATER.

REMOVABLE STEEL CAP (TYP.)

2 1/2" PIPE (CHASED EDGES FOR ELECTRICAL CONDUCTORS)

BOLT CIRCLE DIAMETER #

4 - 1/4" STIFFENER PLATES

4 - H.S. HEX HEAD CAP SCREW, TAP POLE PLATE (TYP.)

1/4" (TYP.)

1/4" (TYP.)

SECTION A-A

NOTES:

- SEE GENERAL NOTES FOR TRAFFIC SIGNAL MAST, AND ARMS SERIAL 707S-02-1/1 FOR DESIGN INFORMATION AND SPECIFICATIONS.
- LUMINAIRE ARM TO BASE PLATE CONNECTION FOR DETAIL (1) SHALL BE A FILLET-WELDED SOCKET CONNECTION.

NOTE: CARE SHALL BE TAKEN TO PROPERLY PLACE COUPLING TO MAINTAIN LEVEL SIGNAL HEADS AND SIGNS ON ARMS.

ALFREDO P. MURILLO  
NEW MEXICO  
18841  
PROFESSIONAL ENGINEER

DESIGNED BY MS., DRAWN BY CCS., CHECKED BY APM.  
707S-03A-1/2 1 of 2

Sheet 707-03

**STANDARD PULL BOX**

1/2"-13 UNC S.S. PENTA HEAD BOLTS W/WASHERS

SKID RESISTANT SURFACE

FLUSH LIFTING EYES

(2) 1/2"-13 UNC S.S. PENTA BOLTS W/WASHER

INSCRIPTIONS:  
- "TRAFFIC SIGNAL" OR "LIGHTING"  
- "NMDOT"  
- MARKINGS SHOWING THE TIER 15 RATING

SKID RESISTANT SURFACE

**LARGE PULL BOX**

4" X 4" MOUSEHOLE KNOCKOUTS (2 EACH SIDE & 1 EACH END) SEE NOTE 12

TIER LABELING SHOWING THE TIER 22 RATING

**METAL PULL BOX**

CAST IRON BOX, FLANGE AND COVER APPROX. WEIGHT 125 LBS

CROSS RIBBED COVER WITH PRY BAR SLOTS

STAINLESS STEEL SCREWS

NEOPRENE GASKET

**PULL BOX DETAILS**

**IN COMPACTED EARTH**

#4 REBAR SAWCUT

CONCRETE RING AROUND BOX

POLYMER CONCRETE BOX & COVER

**IN ASPHALT PAVEMENTS**

#4 REBAR SAWCUT

CONCRETE RING AROUND BOX

POLYMER CONCRETE BOX & COVER

**IN CONCRETE PAVEMENTS**

#4 REBAR SAWCUT

CONCRETE RING AROUND BOX

POLYMER CONCRETE BOX & COVER

**TYPICAL PULL BOX INSTALLATION**

NOTE: SEE "CONCRETE COLLAR DETAILS"

BACKFILL WITH CLASS "A" CONCRETE OR RESTORE SIDEWALK

1/2" FELT EXPANSION JOINT

6" BACK OF CURB

FLUSH

18"

2" MAX SIZE ROCK

**CONCRETE COLLAR DETAIL**

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE PAID FOR UNDER THE CONTRACT ITEM FOR ELECTRICAL PULL BOX AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

DRAWING NOT TO SCALE

NO. DATE REV. BY DESCRIPTION REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

PULL BOX DETAILS

710S-01-1/1

Sheet 710-01

**AEDI** 5101 Coors Blvd. NW  
Suite "F"  
Albuquerque, New Mexico 87120  
(505)262-1766  
(505)255-0466 fax

**DRAFT**

NO.	DESCRIPTION	DATE	BY
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CITY OF SANTA FE  
CIP# 853C

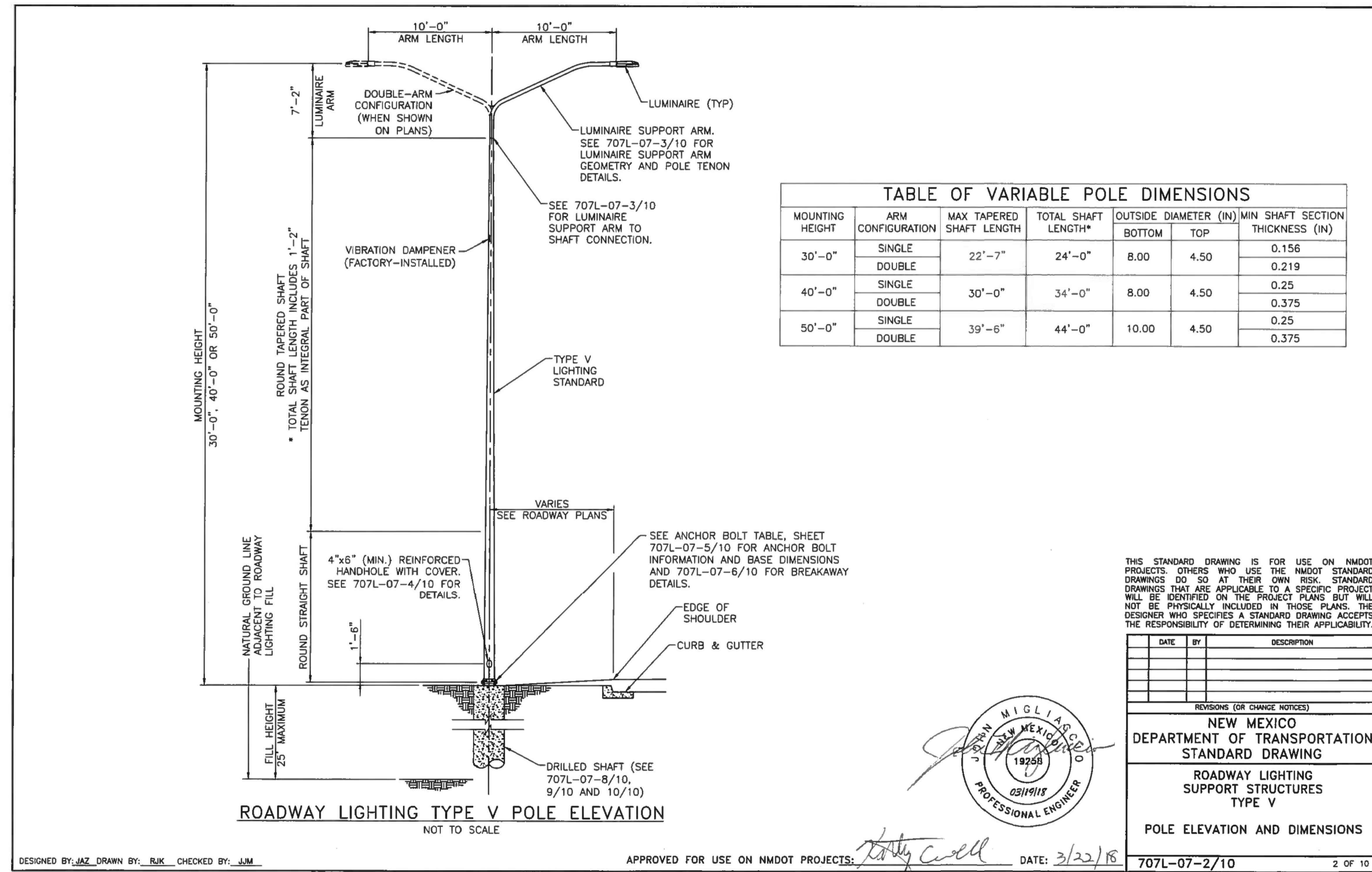
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

90% SUBMITTAL  
NOT FOR  
CONSTRUCTION

ROADWAY LIGHTING ELECTRICAL  
DETAILS

SCALE: N.T.S.





**TABLE OF VARIABLE POLE DIMENSIONS**

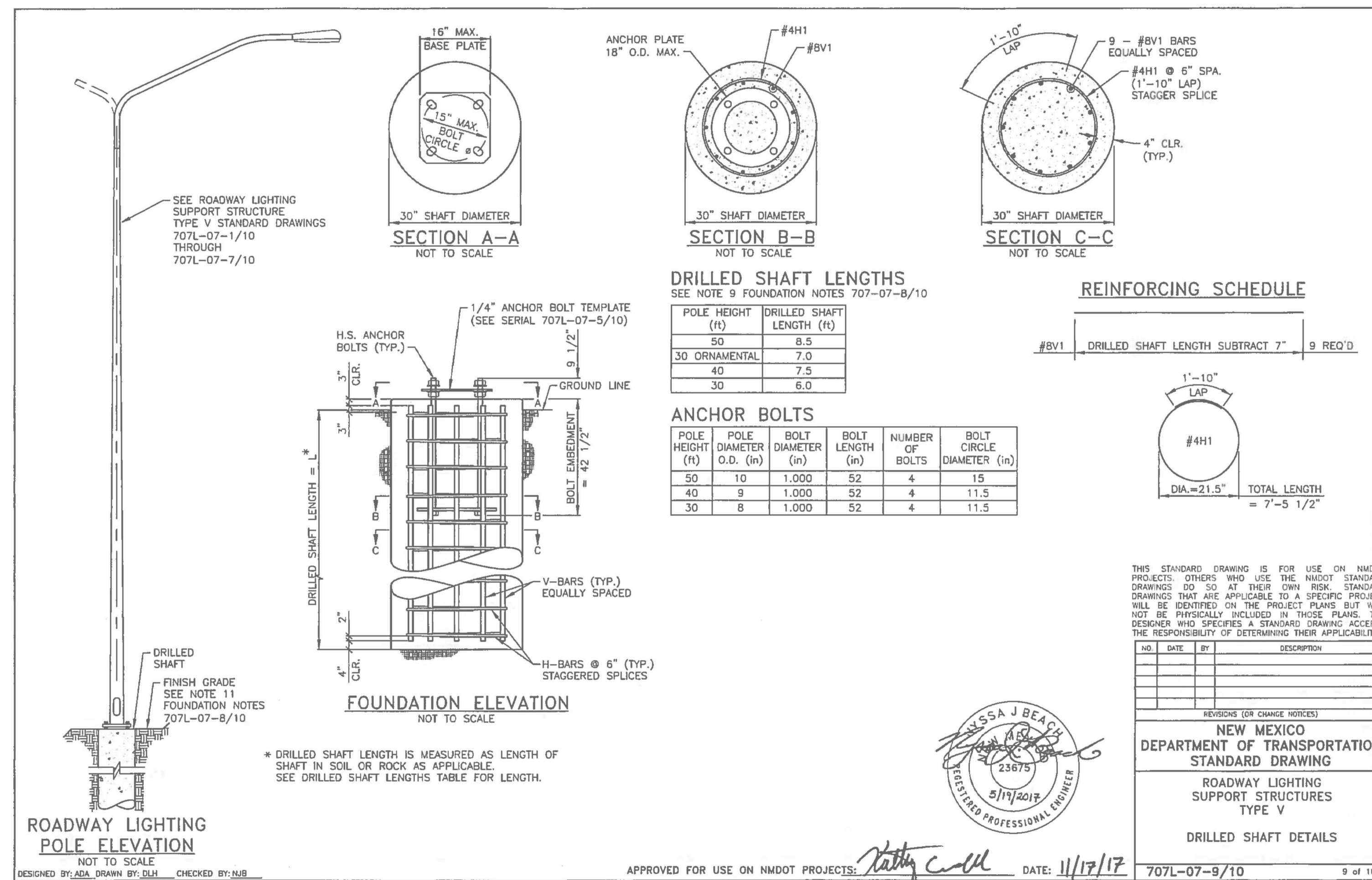
MOUNTING HEIGHT	ARM CONFIGURATION	MAX TAPERED SHAFT LENGTH	TOTAL SHAFT LENGTH*	OUTSIDE DIAMETER (IN)		MIN SHAFT SECTION THICKNESS (IN)
				BOTTOM	TOP	
30'-0"	SINGLE	22'-7"	24'-0"	8.00	4.50	0.156
	DOUBLE					0.219
40'-0"	SINGLE	30'-0"	34'-0"	8.00	4.50	0.25
	DOUBLE					0.375
50'-0"	SINGLE	39'-6"	44'-0"	10.00	4.50	0.25
	DOUBLE					0.375

THIS STANDARD DRAWING IS FOR USE ON NMDOT PROJECTS. OTHERS WHO USE THE NMDOT STANDARD DRAWINGS DO SO AT THEIR OWN RISK. STANDARD DRAWINGS THAT ARE APPLICABLE TO A SPECIFIC PROJECT WILL BE IDENTIFIED ON THE PROJECT PLANS BUT WILL NOT BE PHYSICALLY INCLUDED IN THOSE PLANS. THE DESIGNER WHO SPECIFIES A STANDARD DRAWING ACCEPTS THE RESPONSIBILITY OF DETERMINING THEIR APPLICABILITY.

NO.	DATE	BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
ROADWAY LIGHTING SUPPORT STRUCTURES TYPE V			
POLE ELEVATION AND DIMENSIONS			
707L-07-2/10 2 OF 10			



Sheet 707-13



**DRILLED SHAFT LENGTHS**  
SEE NOTE 9 FOUNDATION NOTES 707-07-8/10

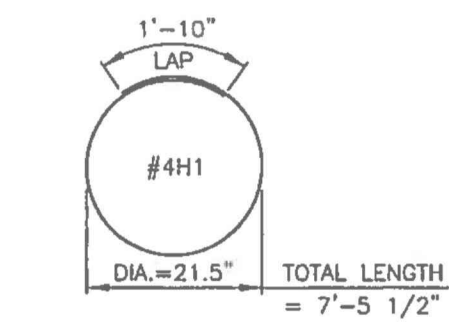
POLE HEIGHT (ft)	DRILLED SHAFT LENGTH (ft)
50	8.5
30 ORNAMENTAL	7.0
40	7.5
30	6.0

**REINFORCING SCHEDULE**

#BVI DRILLED SHAFT LENGTH SUBTRACT 7" 9 REQ'D

**ANCHOR BOLTS**

POLE HEIGHT (ft)	POLE DIAMETER (in)	BOLT DIAMETER (in)	BOLT LENGTH (in)	NUMBER OF BOLTS	BOLT CIRCLE DIAMETER (in)
50	10	1.000	52	4	15
40	9	1.000	52	4	11.5
30	8	1.000	52	4	11.5



THIS STANDARD DRAWING IS FOR USE ON NMDOT PROJECTS. OTHERS WHO USE THE NMDOT STANDARD DRAWINGS DO SO AT THEIR OWN RISK. STANDARD DRAWINGS THAT ARE APPLICABLE TO A SPECIFIC PROJECT WILL BE IDENTIFIED ON THE PROJECT PLANS BUT WILL NOT BE PHYSICALLY INCLUDED IN THOSE PLANS. THE DESIGNER WHO SPECIFIES A STANDARD DRAWING ACCEPTS THE RESPONSIBILITY OF DETERMINING THEIR APPLICABILITY.

NO.	DATE	BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
ROADWAY LIGHTING SUPPORT STRUCTURES TYPE V			
DRILLED SHAFT DETAILS			
707L-07-9/10 9 OF 10			



**AEDI** 5101 Coors Blvd. NW Suite "F" Albuquerque, New Mexico 87120 (505)262-1766 (505)255-0466 fax

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**DRAFT**

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
90% SUBMITTAL NOT FOR CONSTRUCTION

ROADWAY LIGHTING ELECTRICAL DETAILS

SCALE: N.T.S.



**TRAFFIC SIGNAL NOTES:**

1. CONTRACTOR SHALL CONTACT THE CITY OF SANTA FE FOR APPROVED PRODUCTS LISTING FOR TRAFFIC SIGNAL COMPONENTS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ACCESSIBLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE OPTICAL DETECTOR TO THE CONTROLLER CABINET.
6. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. THE CONTRACTOR SHALL NOTIFY PNM AND THE CITY OF SANTA FE SIGNAL LAB FIVE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING PERSONNEL MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF SANTA FE EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED. CONTRACTOR SHALL NOTIFY THE CITY OF SANTA FE SIGNAL LAB TWO WEEKS PRIOR TO TURNING ON NEW SIGNALS.
8. THE CONTRACTOR SHALL NOTIFY PNM THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM TO MAINTAIN ELECTRICAL SERVICE IN THE CITY OF SANTA FE'S NAME.
9. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY OF SANTA FE WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
10. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES, THE REQUIREMENTS FOR SINGLE CONDUCTOR COPPER #6 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
11. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
12. 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.
13. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF. SIGNAL LAB WILL NOT DO THE INITIAL INSPECTION WITHOUT POLICE PRESENCE.
14. THE CONTRACTOR SHALL FURNISH FOUNDATION ELEVATIONS TO THE PROJECT MANAGER FOR APPROVAL BEFORE INSTALLATION. THE CONTRACTOR SHALL GRADE AROUND THE FOUNDATIONS TO PROVIDE TRAVERSABLE SLOPES AS DIRECTED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL SUBMIT CROSS-SECTIONS FOR APPROVAL BASED ON ACTUAL FIELD ELEVATIONS. ALL EXCAVATION AND/OR EMBANKMENT REQUIRED WILL BE CONSIDERED INCIDENTAL.
15. SIGNALS NEAR EXISTING OVERHEAD POWER LINES MUST MAINTAIN A VERTICAL CLEARANCE AND/OR A HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
16. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE CONDUIT.
17. ALL NEW SIGNAL CONSTRUCTION SHALL BE ADA COMPLIANT INCLUDING LOCATION OF MASTARMS, PEDESTAL, POLES AND PUSH BUTTONS.
18. SIGNAL HEADS SHALL BE COVERED WHEN NECESSARY WITH AN APPROVED BLACK NON-TRANSPARENT SIGNAL COVER.
19. TO DETERMINE THE TYPE OF FOUNDATION TO BE USED FOR THE MASTARMS, TYPE II & TYPE III, THE CONTRACTOR SHALL REFER TO REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, JOB NO. 1-00212, AGUA FRIA STREET & SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS, SANTA FE, NEW MEXICO" PREPARED BY GEO-TEST, INC., DATED APRIL 30 2020.
20. CAP UNUSED WIRING.
21. NO SPLICING IN PULL BOXES.
22. PUSH BUTTONS SHALL BE PLACED NO FURTHER THAN 10" FROM FACE OF CURB PER ADA REQUIREMENTS. PUSH BUTTON EXTENDERS SHALL BE USED AS NECESSARY AND CONSIDERED INCIDENTAL TO CONSTRUCTION.

**TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS:**

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
  - A. ALL TRAFFIC ACTUATED CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL EITHER BE ECONOLITE OR SIEMENS BRAND, OR EQUAL AS APPROVED BY THE CITY OF SANTA FE AND SHALL HAVE SIGNAL MODE FIBER COMMUNICATION MODULES.
  - B. ALL EIGHT PHASE DOUBLE RING CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE TS-2, TYPE 1, DOUBLE DOOR, "P" SIZE CABINETS WIRED FOR FULL 8 PHASE SYSTEM OPERATION WITH TELEMETRY BOARDS. TRANSIENT VOLTAGE SURGE SUPPRESSOR AND ALL CONNECTING HARNESSSES AS APPROVED BY THE CITY OF SANTA FE. [EITHER ECONOLITE, EAGLE BRAND, OR EQUAL AS APPROVED BY THE CITY OF SANTA FE]
  - C. THE SYSTEM MASTER SHALL BE AS APPROVED BY THE CITY OF SANTA FE AND IS TO BE DELIVERED AND INSTALLED TO THE CITY OF SANTA FE SIGNAL SHOP. THE SYSTEM MASTER SHALL INCLUDE A FIELD PROGRAMMING UNIT FOR UPLOADING AND DOWNLOADING FIELD TRAFFIC DATA AND SHALL INCLUDE ALL HARNESSSES AND INTERNAL MODEM REQUIRED TO COMMUNICATE WITH THE SYSTEM MASTER AND SLAVE CONTROLLERS. EQUIPMENT MANUFACTURER SHALL CONTACT THE CITY OF SANTA FE FOR PRE-APPROVAL PRIOR TO BIDDING. [EITHER ECONOLITE, EAGLE BRAND, OR EQUAL AS APPROVED BY THE CITY OF SANTA FE]
2. EMERGENCY VEHICLE DETECTION EQUIPMENT SHALL BE OPTICOM AS APPROVED BY THE CITY OF SANTA FE. A MANUFACTURER'S REPRESENTATIVE SHALL ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PRE-EMPTION EQUIPMENT TO INSURE THAT EQUIPMENT IS OPERATIONAL. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL EMITTERS AND WILL COORDINATE THIS WORK WITH FIRE CHIEF BARBARA SALAS, CITY OF SANTA FE DEPARTMENT AT (505) 955-3110. THE INSTALLATION OF EMITTERS WILL BE CONSIDERED INCIDENTAL TO ITEM #713700.
3. THE CONTRACTOR SHALL FURNISH TRAINING FOR THE WIRELESS VEHICLE DETECTION EQUIPMENT (1 DAY). THIS TRAINING SHALL BE PERFORMED WHEN THE EQUIPMENT IS FULLY OPERATIONAL. MANUFACTURER'S REPRESENTATIVES SHALL CONDUCT THE TRAINING IN SANTA FE FOR APPROXIMATELY 10 CITY AND NMDOT PERSONNEL.
4. ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, CABINETS, AND FITTINGS SHALL COMPLY WITH THE CITY OF SANTA FE TYPE AND COLOR REQUIREMENTS.
5. LOAD SWITCHES AND SIGNAL FLASHER SHALL BE DISCRETE TYPE.
6. "ALL OR NONE" BIDS BY SIGNAL EQUIPMENT MANUFACTURERS WILL NOT BE ALLOWED. MANUFACTURERS (AS A MINIMUM) SHALL PREPARE SEPARATE BIDS FOR TWO GROUPS OF EQUIPMENT AS FOLLOWS:
  - A. TRAFFIC SIGNAL CONTROL EQUIPMENT SUCH AS CONTROLLERS, CONTROL CABINETS, MONITORS, TELEMETRY, MODEMS, SYSTEM MASTER, HARNESSSES, AND FIELD ASSISTANCE DURING INSTALLATION.
  - B. SIGNAL HARDWARE EQUIPMENT SUCH AS SIGNAL HEADS, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, BACK PLATES AND ASSOCIATED FITTINGS.
7. METER PEDESTAL (SIGNAL) SHALL BE AS SHOWN ON SHEET 9-7, AND SHALL BE INSTALLED AT LOCATIONS SHOWN ON PLANS.
8. SYSTEM DETECTION FOR EACH INTERSECTION (COUNTS) SHALL BE PROVIDED BY SENSYS WIRELESS VEHICLE DETECTION SYSTEM OR APPROVED EQUAL. EACH MAIN LINE (THROUGH LANES) SHALL HAVE APPROACH AND DEPARTURE ZONES. EACH INTERSECTION SHALL HAVE (4X3)=12 DETECTION WIRELESS SENSORS, 2 REPEATERS, AND ACCESS POINT TO PROVIDE PER LANE DATA AS A COMPLETE OPERATING SYSTEM. THE SENSORS SHALL BE PLACED 325' FROM STOP BARS AS RECOMMENDED BY MANUFACTURER AS APPROVED BY THE CITY OF SANTA FE.
9. BICYCLE DETECTION SHALL BE PROVIDED BY SENSYS WIRELESS DETECTION SYSTEM OR APPROVED EQUAL. BICYCLE DETECTOR QUANTITY AND LAYOUT AS APPROVED BY THE CITY OF SANTA FE.

**TRAFFIC SIGNAL LEGEND**

NEW	EXISTING	ITEM
■	□	PULL BOX
●	○	SERVICE POLE
Ⓜ	Ⓜ	METER PEDESTAL
Ⓢ	Ⓢ	CONTROLLER CABINET
---	---	CONDUIT RUN (SIGNALS)
---	---	CONDUIT RUN (LIGHTING)
---	---	CONDUIT RUN (INTERCONNECT)
▬▬▬	▬▬▬	LOOP DETECTOR
⬅●	⬅○	TRAFFIC SIGNAL PEDESTAL POLE
△X	△X	CONDUIT RUN NUMBER (SIGNAL)
△SX	△SX	CONDUIT RUN NUMBER (POWER SERVICE)
△CX	△CX	CONDUIT RUN NUMBER (INTERCONNECT)
△FX	△FX	CONDUIT RUN NUMBER (WARNING BEACON)
⬇⬆	⬇⬆	TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
⬇⬆	⬇⬆	TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, AND LUMINAIRE
●	○	PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
⬆	⬆	PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
Ⓢ	Ⓢ	SPLICE CABINET
●	○	TRAFFIC MANHOLE
*	*	WIRELESS VEHICLE DETECTOR

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION  
TRAFFIC SIGNAL NOTES,  
EQUIPMENT REQUIREMENTS  
AND LEGEND

DRAFT



**INCIDENTAL ITEMS***

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATIONS OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. REMOVAL, SALVAGE, DISASSEMBLY AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF SANTA FE SIGNAL LAB IN SANTA FE.
8. PULL BOX ADJUSTMENT TO GRADE.
9. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
10. REMOVAL AND REPLACEMENT IN KIND OR BETTER LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
11. COST FOR LOCAL POWER COMPANY TO MAINTAIN ELECTRICAL SERVICE.
12. EQUIPMENT MANUFACTURER'S ASSISTANCE TO INSTALL, SET UP, PROGRAM, TURN ON, FIELD TEST, AND PROVIDE TRAINING FOR TRAFFIC SIGNAL EQUIPMENT INCLUDING THE DETECTION EQUIPMENT, EMERGENCY VEHICLE PREEMPTION EQUIPMENT, SYSTEM MASTER.
13. ANCHOR BOLTS FOR FOUNDATIONS.
14. GROUND RODS FOR FOUNDATIONS.
15. EXCAVATION FOR FOUNDATION
16. PUSH BUTTON EXTENDERS.

*ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY OR 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.

TRAFFIC SIGNAL QUANTITIES (ESTIMATED)			
NUMBER	ITEM DESCRIPTION	QUANTITY	UNIT
511000	STRUCTURAL CONCRETE, CLASS A		CU YD
540060	REINFORCING BARS GRADE 60		LBS
706200	METER PEDESTAL (SIGNAL)	1	EACH
706350	POWER SERVICE INSTALLATION	1	LS
707015	TYPE I STANDARD, 15'	4	EACH
707325	TYPE III STANDARD, 25' ARM	4	EACH
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	760	LIN FT
709030	RIGID ELECTRICAL CONDUIT 3" (DIA.)	505	LIN FT
710000	ELECTRIC PULL BOX (STANDARD)	4	EACH
710010	ELECTRIC PULL BOX (LARGE)	3	EACH
710400	TRAFFIC SIGNAL MANHOLE	1	EACH
711005	MULTI CONDUCTOR CABLE 5	1260	LIN FT
711007	MULTI CONDUCTOR CABLE 7	320	LIN FT
711020	MULTI CONDUCTOR CABLE 20	1060	LIN FT
711102	SINGLE CONDUCTOR 2	75	LIN FT
711106	SINGLE CONDUCTOR 6	605	LIN FT
712031	3 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	1	EACH
712051	5 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	11	EACH
712201	PEDESTRIAN SIGNAL (LED)	8	EACH
712330	5 SECTION BACKPLATE	4	EACH

**NOTE:**  
TRAFFIC SIGNAL QUANTITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY AND TO BE PAID AS A LUMP SUM UNDER ITEM NUMBER 707000 PER SHEET 1-8. ANY ADDITIONAL MATERIALS, EQUIPMENT, OR APPURTENANCES REQUIRED TO COMPLETE THE INSTALLATION SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE FOR THIS COMPLETE IN PLACE ITEM.

TRAFFIC SIGNAL QUANTITIES (ESTIMATED)			
NUMBER	ITEM DESCRIPTION	QUANTITY	UNIT
713010	LOOP VEHICLE DETECTOR	8	EACH
713020	PUSH BUTTON STATION	8	EACH
713030	LOOP DETECTOR WIRE	4549	LIN FT
713050	LOOP LEAD-IN CABLE	2135	LIN FT
713300	DETECTOR SAW CUT	1706	LIN FT
713430	PHASE SELECTOR MODULE	4	EACH
713511	OPTICAL DETECTOR 1 DIRECTION, 1 CHANNEL	4	EACH
713600	OPTICAL DETECTOR CABLE	740	EACH
713XXX	WIRELESS VEHICLE DETECTOR SYSTEM	1	EACH
714000	TRAFFIC ACTUATED CONTROLLER	1	EACH
714100	SYSTEM MASTER	1	EACH
714280	8 PHASE DOUBLE RING CONTROLLER CABINET	1	EACH
716301	INTERNALLY ILLUMINATED SIGN*	4	EACH
716400	ROADWAY LUMINAIRE TYPE 400 S	4	EACH

*SIGNS SHALL BE FLOURESCO BRAND OR EQUAL AS APPROVED BY THE CITY OF SANTA FE.

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NO.	DESCRIPTION	DATE	BY

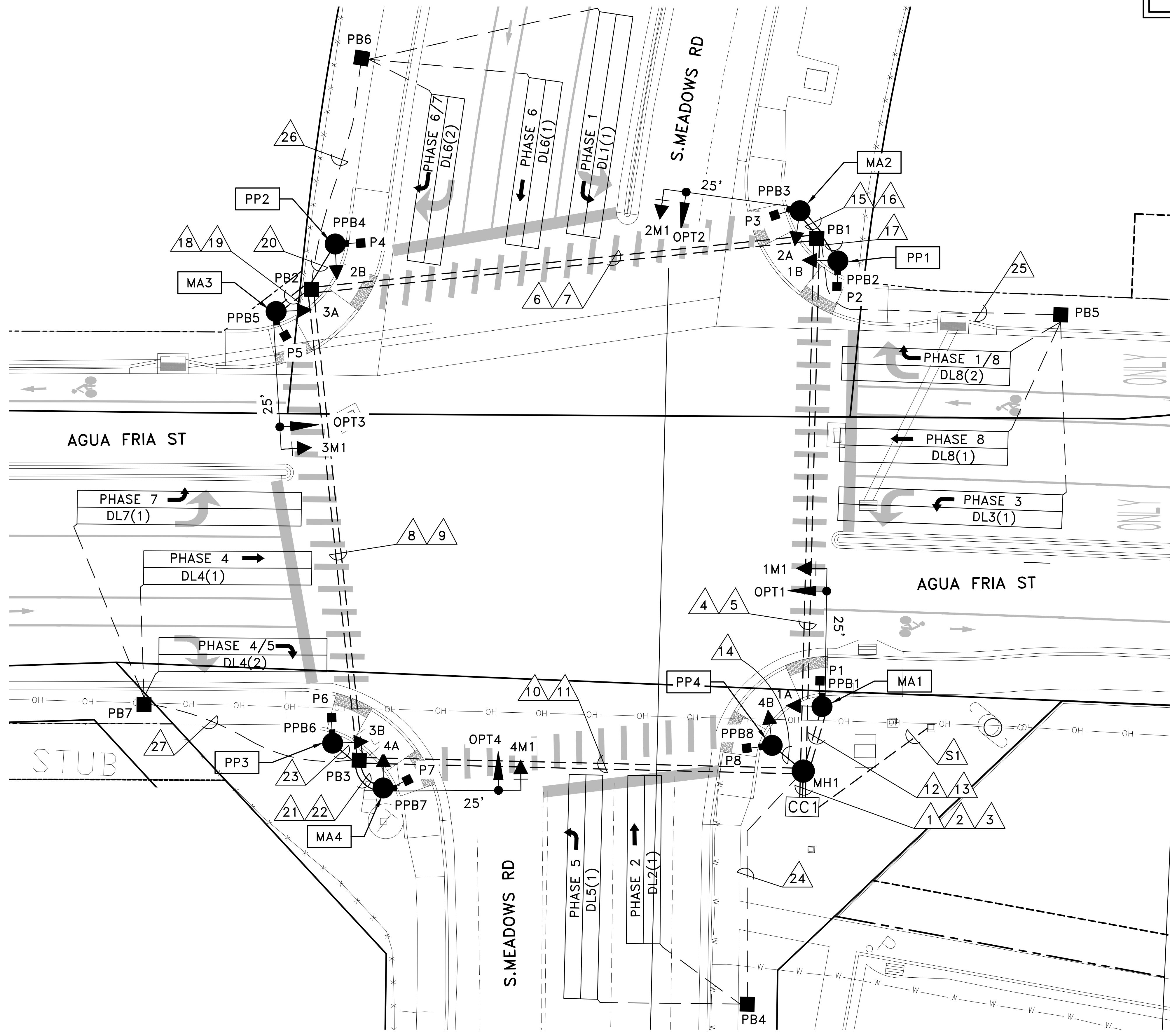
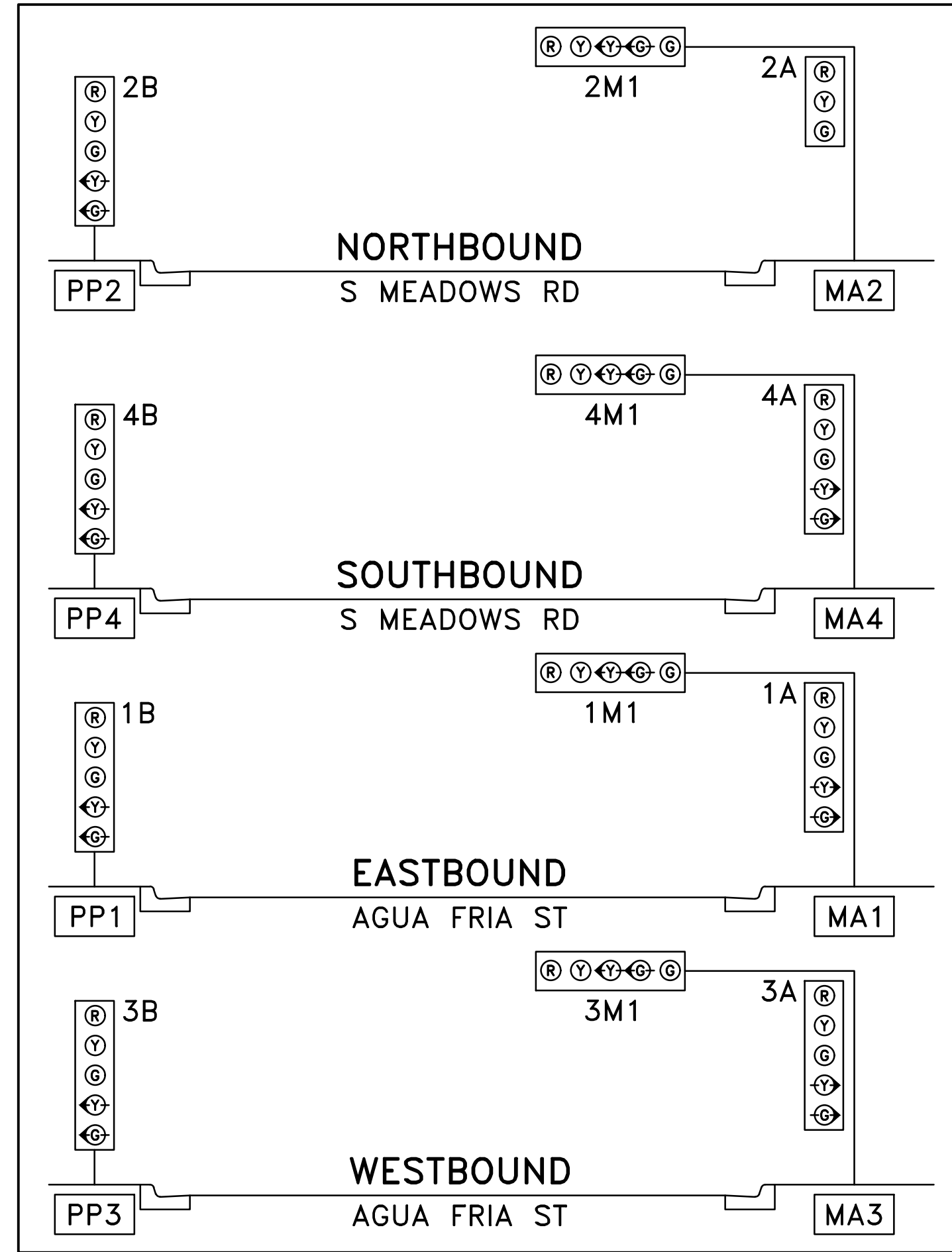
REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION  
TRAFFIC SIGNAL QUANTITIES  
AND INCIDENTALS

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TRAFFIC SIGNAL CONFIGURATION BY APPROACH



ABBREVIATIONS

- MA1 MAST ARM NUMBER
- PP1 PEDESTAL POLE NUMBER
- PPB1 PEDESTRIAN PUSH BUTTON NUMBER
- CC1 CONTROL CABINET NUMBER
- PB1 PULL BOX NUMBER (SIGNALS)
- 3A SIGNAL HEAD NUMBER
- P1 PEDESTRIAN SIGNAL NUMBER
- MH1 TRAFFIC MANHOLE NUMBER

SYMBOL KEY

- PS1 SPAN WIRE STEEL POLE
- 1 CONDUIT RUN ID (SIGNAL)
- S1 CONDUIT RUN ID (POWER SERVICE)
- L1 CONDUIT RUN ID (LIGHTING)

FLASH CONDITION

ALL RED

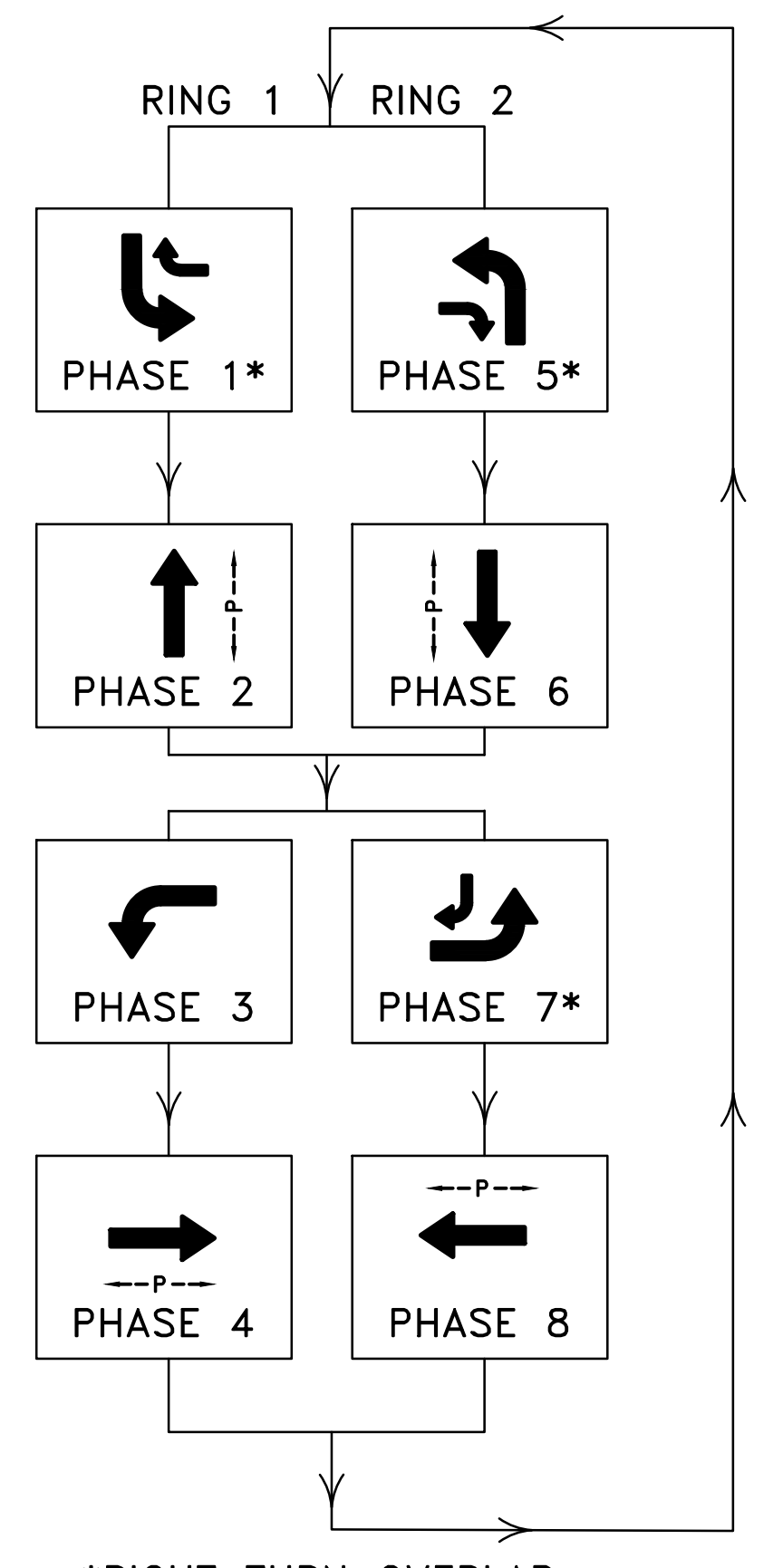
INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

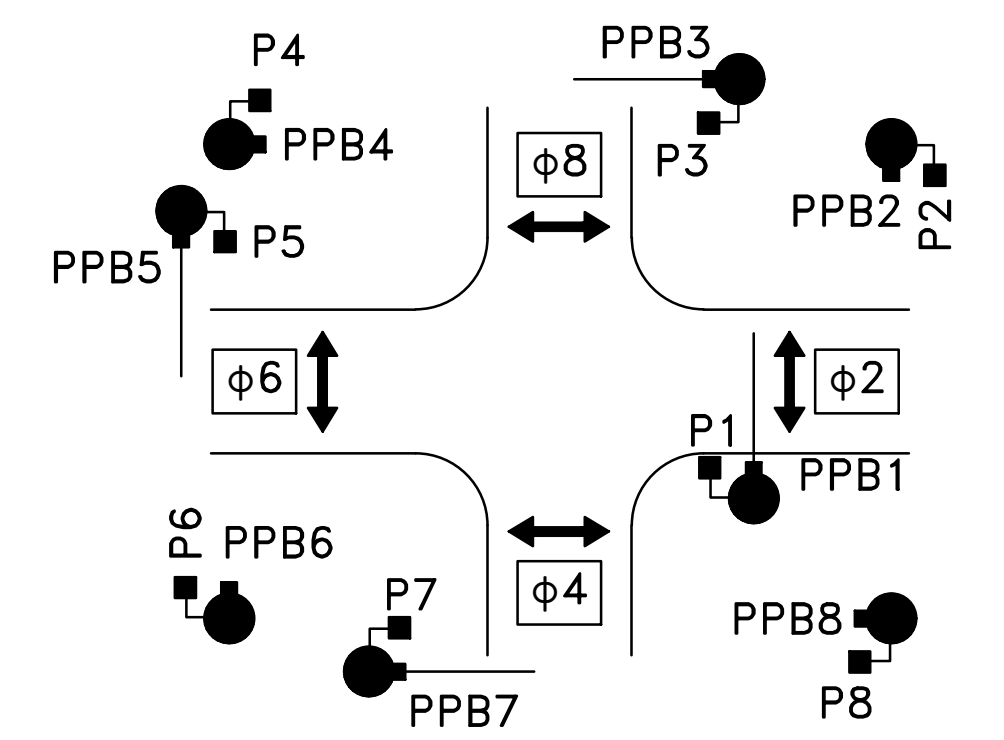
NOTES

1. PULL BOXES PB1 THROUGH PB3 ARE LARGE SIZE. PULL BOXES PB4 THROUGH PB7 ARE STANDARD SIZE.
2. ALL BACKPLATES SHALL BE LOUVERED.
3. SEE ADDITIONAL DETAILS, SHEET 9-4.

SIGNAL PHASING



PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



3			
2			
1			
NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE  
CIP# 853C

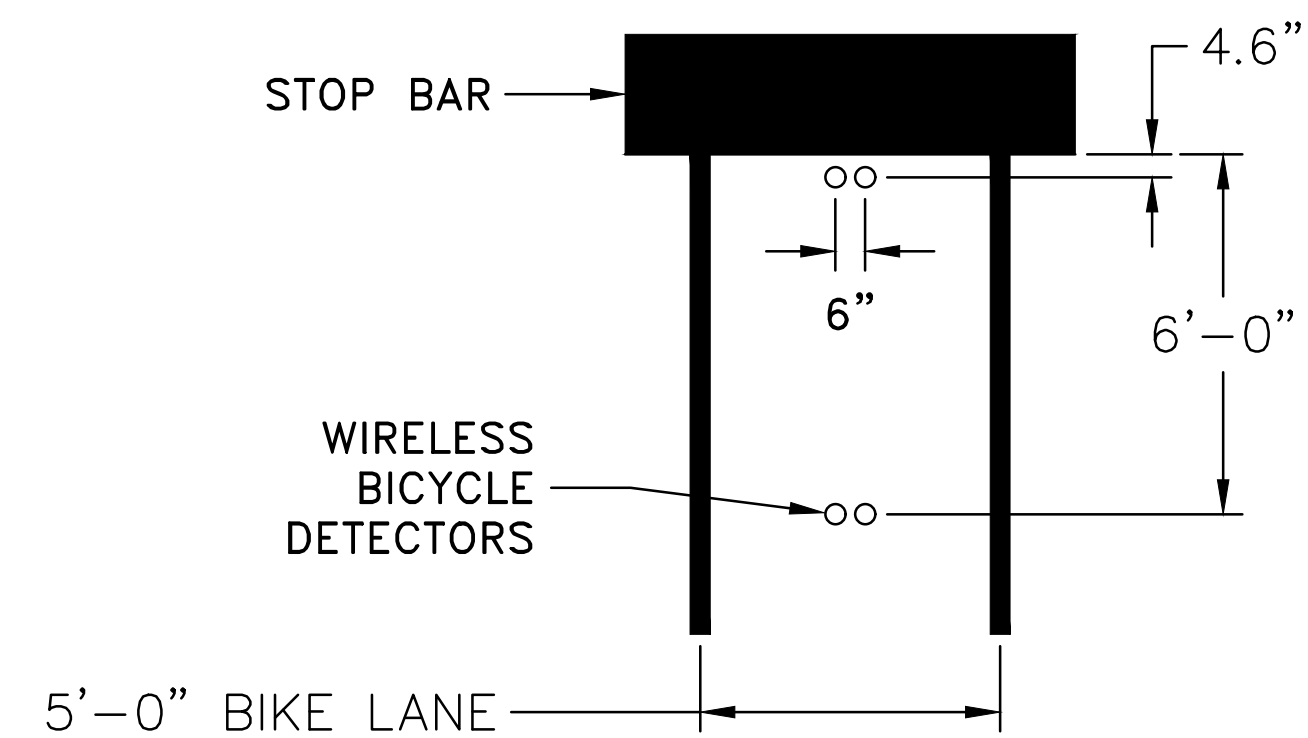
AGUA FRIA STREET AND  
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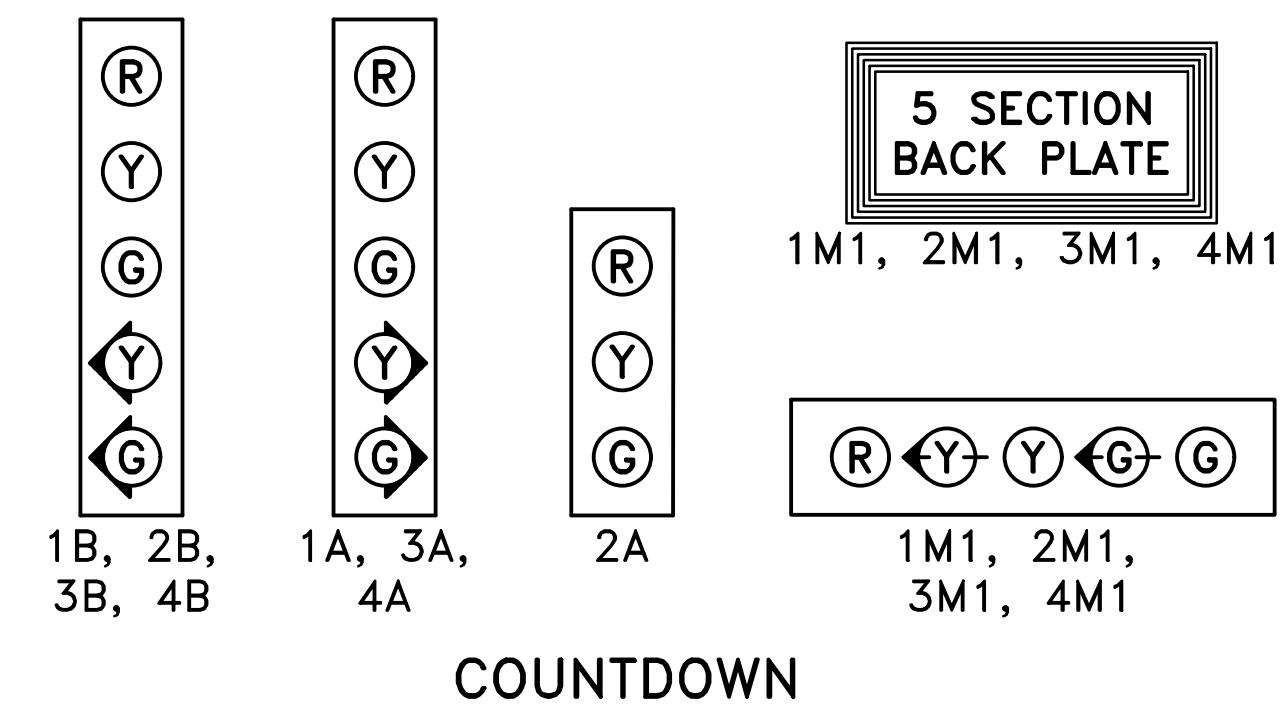


BICYCLE DETECTOR QUANTITY AND LAYOUT SHALL BE AT THE DISCRETION OF THE CITY OF SANTA FE.

**BICYCLE DETECTOR DETAIL**

OPTICAL DETECTOR CABLE				
FROM	TO	CONDUIT TRACE	NO. PAIRxLENGTH	TOTAL LENGTH
CC1	MA1	2, 13, MA1	1 @ 95	95
CC1	MA2	2, 5, 16, MA2	1 @ 195	195
CC1	MA3	2, 11, 9, 19, MA3	1 @ 285	285
CC1	MA4	2, 11, 22, MA4	1 @ 185	185
			TOTAL	760'

**TYPICAL SIGNAL FACE LENS ARRANGEMENTS**



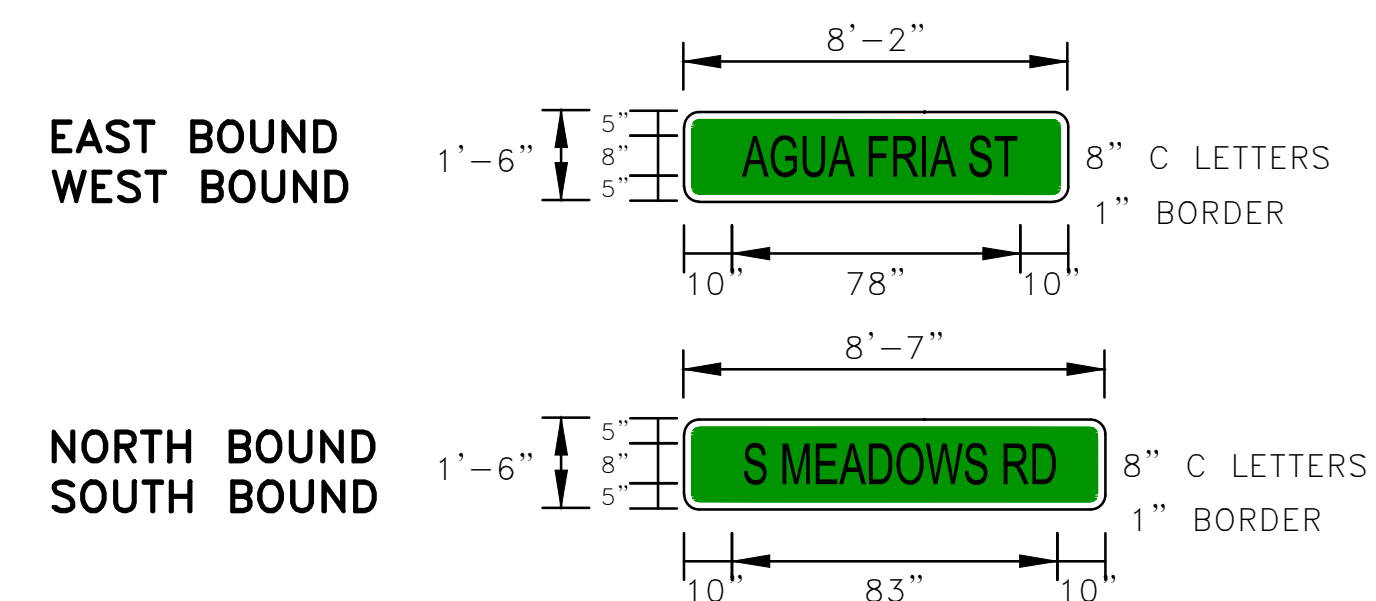
**COUNTDOWN**



P1, P2, P3, P4  
P5, P6, P7, P8

LOOP LEAD-IN CABLE				
FROM	TO	CONDUIT TRACE	NO. PAIRxLENGTH	TOTAL LENGTH
CC1	PB4	2, 24	2 @ 85	170
CC2	PB5	2, 5, 25	3 @ 195	585
CC3	PB6	2, 11, 9, 26	3 @ 280	840
CC4	PB7	2, 11, 27	3 @ 180	540
			TOTAL	2,135'

**STREET SIGNS**



NO.	DESCRIPTION	DATE	BY
3			
2			
1			

CITY OF SANTA FE  
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AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

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TRAFFIC SIGNAL DETAILS

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CONDUIT AND CONDUCTOR REQUIREMENTS

RUN ID	CONDUIT LENGTH, SIZE, AND TYPE		TYPE	REMARKS	CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										NOTE	
	SIZE / LENGTH 2"	3"			MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC 2 (# @ FT)	SCC 6 (# @ FT)	SCC 10 (# @ FT)	PS (# @ FT)	DLLIC (# @ FT)	OPTICOM (# @ FT)			
S1	20			METER TO PS CC1 TO METER				3 @ 25								
1		15		CC1 TO MH1	2 @ 20		2 @ 20		1 @ 20							
2		15		CC1 TO MH1								11 @ 20	4 @ 20			
3		15		CC1 TO MH1	2 @ 20		2 @ 20		1 @ 20							
4		100		MH1 TO PB1	2 @ 105		2 @ 105		1 @ 105							
5	100			MH1 TO PB1								3 @ 105	1 @ 105			
6		100		PB1 TO PB2	2 @ 105		2 @ 105		1 @ 105							
7	100			PB1 TO PB2												
8		95		PB2 TO PB3	2 @ 100		2 @ 100		1 @ 100							
9	95			PB2 TO PB3								3 @ 100	1 @ 100			
10		90		PB3 TO MH1	2 @ 95		2 @ 95		1 @ 95							
11	90			PB3 TO MH1								6 @ 95	2 @ 95			
12		20		MH1 TO MA1	2 @ 25		2 @ 25		1 @ 25							
13	20			MH1 TO MA1										1 @ 25		
14		10		MH1 TO PP4					1 @ 15							
15		15		PB1 TO MA2	2 @ 20		2 @ 20		1 @ 20							
16	15			PB1 TO MA2										1 @ 20		
17	15			PB1 TO PP1					1 @ 20							
18		15		PB2 TO MA3	2 @ 20		2 @ 20		1 @ 20							
19	15			PB2 TO MA3										1 @ 20		
20	15			PB2 TO PP2					1 @ 20							
21		15		PB3 TO MA4	2 @ 20		2 @ 20		1 @ 20							
22	15			PB3 TO MA4										1 @ 20		
23	15			PB3 TO PP3					1 @ 20							
24	60			MH1 TO PB4								2 @ 65				
25	65			PB1 TO PB5								3 @ 70				
26	60			PB2 TO PB6								3 @ 65				
27	60			PB3 TO PB7								3 @ 65				
MA1				MA1 TO 1A			1 @ 15									
MA1				MA1 TO 1M1			1 @ 50									
MA1				MA1 TO P1	1 @ 15											
MA1				MA1 TO PPB1	1 @ 10											
MA1				MA1 TO OPT1									1 @ 50			
MA2				MA2 TO 2A			1 @ 15									
MA2				MA2 TO 2M1			1 @ 50									
MA2				MA2 TO P3	1 @ 15											
MA2				MA2 TO PPB3	1 @ 10											
MA2				MA2 TO OPT2									1 @ 50			
MA3				MA3 TO 3A			1 @ 15									
MA3				MA3 TO 3M1			1 @ 50									
MA3				MA3 TO P5	1 @ 15											
MA3				MA3 TO PPB5	1 @ 10											
MA3				MA3 TO OPT3									1 @ 50			
MA4				MA4 TO 4A			1 @ 15									
MA4				MA4 TO 4M1			1 @ 50									
MA4				MA4 TO P7	1 @ 15											
MA4				MA4 TO PPB7	1 @ 10								1 @ 50			
MA4				MA4 TO OPT4												
PP1				PP1 TO 1B			1 @ 15									
PP1				PP1 TO P2	1 @ 15											
PP1				PP1 TO PPB2	1 @ 10											
PP2				PP2 TO 2B			1 @ 15									
PP2				PP2 TO P4	1 @ 15											
PP2				PP2 TO PPB4	1 @ 10											
PP3				PP3 TO 3B			1 @ 15									
PP3				PP3 TO P6	1 @ 15											
PP3				PP3 TO PPB6	1 @ 10											
PP4				PP4 TO 4B			1 @ 15									
PP4				PP4 TO P8	1 @ 15											
PP4				PP4 TO PPB8	1 @ 10											
TOTALS	760'	505'			1260'	320'	1060'	75'	605'			2135'	760'			

ABBREVIATIONS:

- MA = MAST ARM
- MCC = MULTI CONDUCTOR CABLE
- PB = PULL BOX
- PP = PEDESTAL POLE
- PPB = PEDESTRIAN PUSH BUTTON
- REC = RIGID ELECTRIC CONDUIT
- SCC = SINGLE CONDUCTOR CABLE
- CAM = VIDEO CAMERA
- PS = PULL STRING
- DLLIC= DETECTOR LOOP LEAD IN CABLE

3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
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AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION  
TRAFFIC SIGNAL CABLES  
AND CONDUITS

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**NOTES**

- ① IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"
- ② WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END
- ③ IDENTIFY CONDUCTORS LISTED AS "PPB - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY

**ABBREVIATIONS:**

- DLIC = DETECTOR LOOP LEAD IN CABLE
- EC = EXTENDED CALL LOOP
- L = DETECTOR LOOP LENGTH
- W = DETECTOR LOOP WIDTH
- S = SAWCUT LOOP TO CURB
- T = TERMINAL LOOP
- EC = QUADRAPOLE LOOP
- REC = RECTANGULAR LOOP

**QUANTITY ESTIMATING ASSUMPTION:**

**LOOP WIRE**

- 6' x 30' QP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 269 + 2(S+T)
- 6' x 40' QP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 349 + 2(S+T)
- 6' x 50' QP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 429 + 2(S+T)
- 6' x 30' REC LOOP = (6*L) + (6*W) + (2*S) + (2*T) + 5 = 216 + 2(S+T)
- 6' x 40' REC LOOP = (6*L) + (6*W) + (2*S) + (2*T) + 5 = 276 + 2(S+T)
- 6' x 6' EC LOOP = (6*L) + (6*W) + (2*S) + (2*T) + 5 = 77 + 2(S+T)
- 6' x 6' SYS LOOP = (8*L) + (8*W) + (2*S) + (2*T) + 5 = 96 + 2(S+T)

**PAVEMENT SAWCUT**

- 6' x 30' QP LOOP = (3*L) + (2*W) + S=102 + S
- 6' x 40' QP LOOP = (3*L) + (2*W) + S=132 + S
- 6' x 50' QP LOOP = (3*L) + (2*W) + S=162 + S
- 6' x 30' REC LOOP = (2*L) + (2*W) + S= 72 + S
- 6' x 40' REC LOOP = (2*L) + (2*W) + S= 92 + S
- 6' x 6' EC LOOP = (2*L) + (2*W) + S= 24 + S
- 6' x 6' SYS LOOP = (2*L) + (2*W) + S= 24 + S

**WHERE:**

- L = DETECTOR LOOP LENGTH (FROM PLAN)
- W = DETECTOR LOOP WIDTH (FROM PLAN)
- S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
- T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

CONDUCTOR NUMBER	BASE COLOR	RING 1 - MULTI CONDUCTOR CABLE 5		RING 2 - MULTI CONDUCTOR CABLE 5	
		FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2PPB	PPB1, PPB2	SPARE	
2	WHITE	COMMON	PPB1, PPB2, PPB7, PPB8	COMMON	PPB3, PPB4, PPB5, PPB6
3	RED	PHASE 4PPB	PPB7, PPB8	SPARE	
4	GREEN	SPARE		PHASE 6PPB	PPB5, PPB6
5	ORANGE	SPARE		PHASE 8PPB	PPB3, PPB4

	φ1	φ2	φ3	φ4	φ5	φ6	φ7	φ8
MINIMUM INITIAL	5	15	5	10	5	15	5	10
VEHICLE EXTENSION	3	3	3	3	3	3	3	3
MAXIMUM 1	10	30	10	30	10	30	10	30
MAXIMUM 2	15	40	15	40	15	40	15	40
YELLOW CHANGE	4	4	4	4	4	4	4	4
RED CLEAR	2	2	2	2	2	2	2	2
WALK	0	4	0	4	0	4	0	4
PEDESTRIAN CLEAR	0	20	0	20	0	20	0	20
OPERATION	OFF	MIN RECALL	OFF	OFF	OFF	MIN RECALL	OFF	OFF

LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		
DL1(1)	PRESENCE		ONE	CH1	QP	50'	6'	35'	5'	509'	197'
DL2(1)	PRESENCE		TWO	CH1	QP	40'	6'	10'	5'	379'	142'
DL3(1)	PRESENCE		FIVE	CH1	REC	50'	6'	30'	5'	411'	142'
DL4(1)	PRESENCE		SIX	CH1	QP	40'	6'	15'	5'	389'	147'
DL4(2)	PRESENCE		SIX	CH2	QP	40'	6'	3'	5'	365'	135'
DL5(1)	PRESENCE		ONE	CH2	QP	50'	6'	20'	5'	479'	182'
DL6(1)	PRESENCE		THREE	CH1	QP	40'	6'	20'	5'	399'	152'
DL6(2)	PRESENCE		THREE	CH2	QP	40'	6'	3'	5'	365'	135'
DL7(1)	PRESENCE		FIVE	CH2	QP	50'	6'	30'	5'	499'	192'
DL8(1)	PRESENCE		SEVEN	CH1	QP	40'	6'	15'	5'	384'	147'
DL8(2)	PRESENCE		SEVEN	CH2	QP	40'	6'	3'	5'	365'	135'
TOTALS										4,544'	1,706'

UNIT NUMBER	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1		φ1	φ2	φ6		φ3	φ4	φ8							SD 7	SD 9	P E D I S O L A T I O N	OPTICOM 1	OPTICOM 3
CHANNEL 2		φ5		φ6		φ7	φ4	φ8							SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED	*	G	G	G		G	G	G									G	G	G

CONDUCTOR NUMBER	BASE COLOR	TRACER	RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
			FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	-	SOUTHBOUND GREEN RIGHT TURN OVERLAP	GREEN RIGHT TURN ARROW 4A	SPARE	SPARE
2	WHITE	-	SOUTHBOUND YELLOW RIGHT TURN OVERLAP	YELLOW RIGHT TURN ARROW 4A	SPARE	SPARE
3	RED	-	PHASE 1 RED ARROW	SPARE	PHASE 5 RED ARROW	SPARE
4	GREEN	-	PHASE 1 GREEN ARROW	GREEN LEFT TURN ARROW 4B, 4M1	PHASE 5 GREEN ARROW	GREEN LEFT TURN ARROW 2B, 2M1
5	ORANGE	-	PHASE 1 YELLOW ARROW	YELLOW LEFT TURN ARROW 4B, 4M1	PHASE 5 YELLOW ARROW	YELLOW LEFT TURN ARROW 2B, 2M1
6	BLUE	-	WESTBOUND GREEN RIGHT TURN OVERLAP	GREEN RIGHT TURN ARROW 3A	EASTBOUND GREEN RIGHT TURN OVERLAP	GREEN RIGHT TURN ARROW 1A
7	WHITE	BLACK	WESTBOUND YELLOW RIGHT TURN OVERLAP	YELLOW RIGHT TURN ARROW 3A	EASTBOUND YELLOW RIGHT TURN OVERLAP	YELLOW RIGHT TURN ARROW 1A
8	RED	BLACK	PHASE 2 RED	RED BALL 2A, 2B, 2M1	PHASE 6 RED	RED BALL 4A, 4B, 4M1
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A, 2B, 2M1	PHASE 6 GREEN	GREEN BALL 4A, 4B, 4M1
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A, 2B, 2M1	PHASE 6 YELLOW	YELLOW BALL 4A, 4B, 4M1
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P1, P2	PHASE 6 WALK	PEDESTRIAN WALK P5, P6
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P1, P2	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P5, P6
13	RED	WHITE	PHASE 3 RED	RED LEFT TURN ARROW	PHASE 7 RED	RED TURN ARROW
14	GREEN	WHITE	PHASE 3 GREEN	GREEN LEFT TURN ARROW 3B, 3M1	PHASE 7 GREEN	GREEN TURN ARROW 1B, 1M1, 4A
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW LEFT TURN ARROW 3B, 3M1	PHASE 7 YELLOW	YELLOW TURN ARROW 1B, 1M1, 4A
16	BLACK	RED	PHASE 4 RED	RED BALL 1A, 1B, 1M1	PHASE 8 RED	RED BALL 3A, 3B, 3M1
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 1A, 1B, 1M1	PHASE 8 GREEN	GREEN BALL 3A, 3B, 3M1
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 1A, 1B, 1M1	PHASE 8 YELLOW	YELLOW BALL 3A, 3B, 3M1
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P7, P8	PHASE 8 WALK	PEDESTRIAN WALK P3, P4
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P7, P8	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P3, P4

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NO.	DESCRIPTION	DATE	BY

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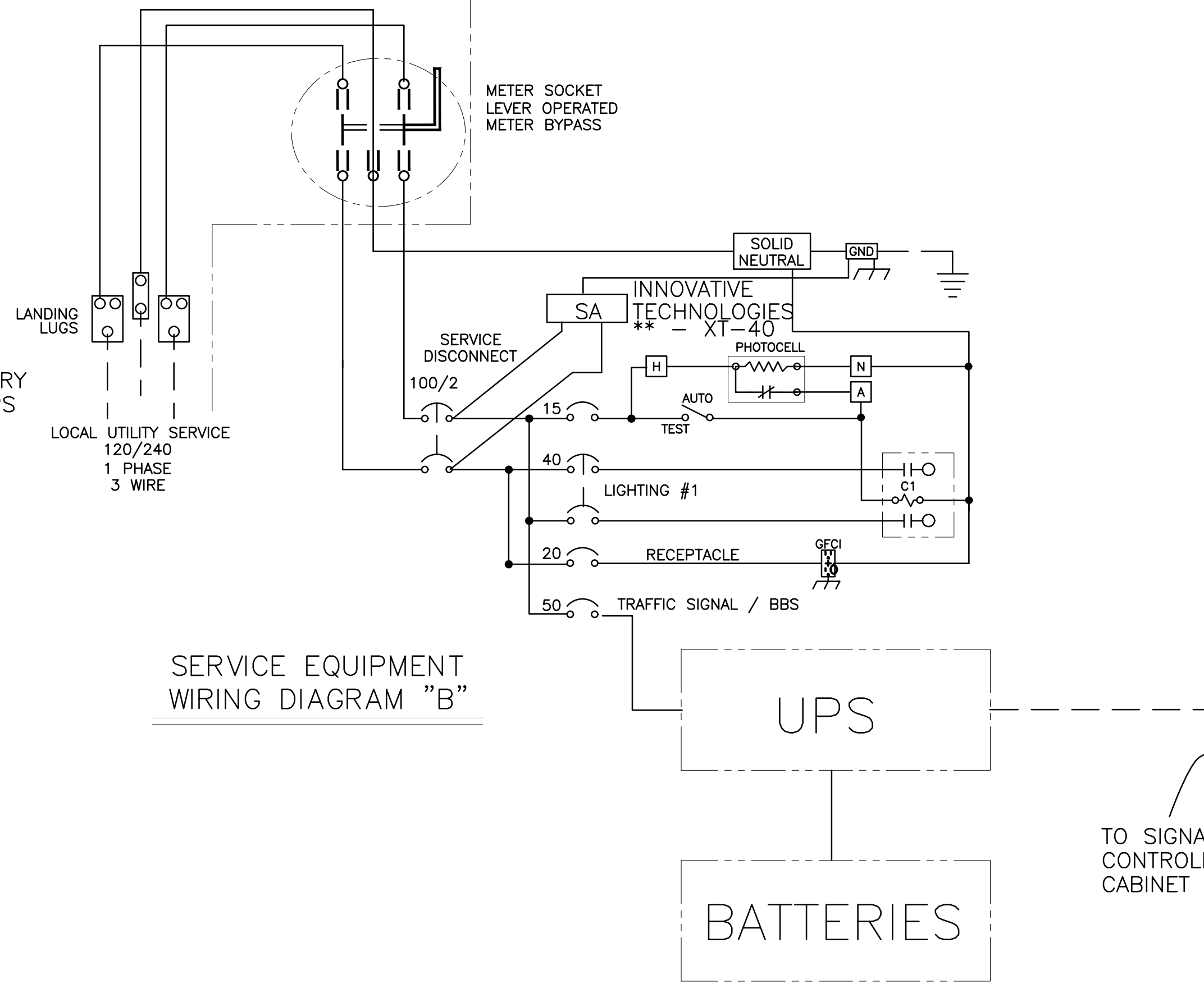
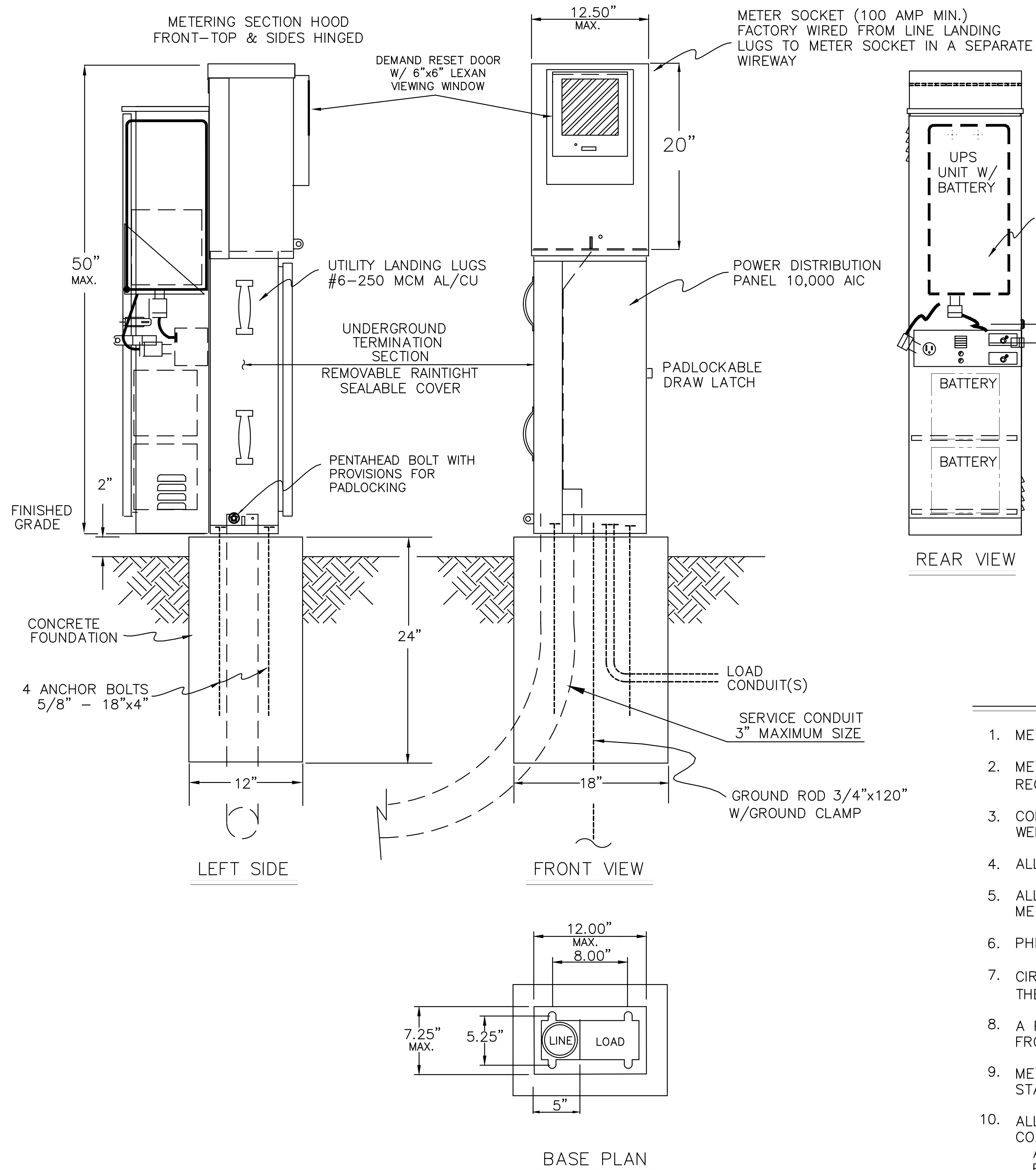
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR  
CONSTRUCTION

TRAFFIC SIGNAL FUNCTIONS  
AND DETECTORS

DRAFT





CONSTRUCTION MATERIALS AND FINISH	
<input type="checkbox"/> 12 Ga. HD GALV SHEET STEEL	<input type="checkbox"/> POWDER COATED
<input type="checkbox"/> 14 Ga. #304 S/S SHEET	<input type="checkbox"/> POWDER COATED
	<input type="checkbox"/> NATURAL
<input type="checkbox"/> 0.125\"/>	

POWDER COAT COLORS	
<input type="checkbox"/> WHITE	<input type="checkbox"/> RANCH GREEN
<input type="checkbox"/> CAMEL	<input type="checkbox"/> MINT GREEN
<input type="checkbox"/> OTHER	

PHOTO ELECTRIC CELL	
<input type="checkbox"/> ON LIGHT POLE	
<input type="checkbox"/> IN SERVICE CABINET	

METER PEDESTAL CONSTRUCTION NOTES

- METER PEDESTAL SHALL BE UL LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
- METER PEDESTAL SHALL MEET THE ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENTS COMMITTEE (EUSERC) GUIDELINES.
- CONSTRUCTION SHALL BE NEMA 3R, RAIN TIGHT AND DUST TIGHT, ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
- ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
- ALL NUTS, BOLTS, SCREWS AND HINGES SHALL NOT BE VISIBLE FROM OUTSIDE OF METER PEDESTAL.
- PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
- CIRCUIT BREAKERS SHALL BE CABLE-IN/CABLE-OUT WITH LINE ON TOP & LOAD ON THE BOTTOM. HANDLE POSITION UP="ON", MIDDLE="TRIPPED", DOWN="OFF".
- A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
- METER PEDESTAL SHALL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
- ALL POWDER COATED METER PEDESTALS SHALL HAVE A CORROSION RESISTANT COATING WHICH INCLUDES A FIVE STEP DIP TANK METAL PREPARATION PROCESS:
  - ALKALINE CLEANER.
  - CLEAR WATER RINSE.
  - IRON PHOSPHATE APPLICATION.
  - CLEAR WATER RINSE.
  - INHIBITIVE RINSE TO SEAL PHOSPHATED SURFACES.
 FINISHED WITH AN ELECTROSTATICALLY APPLIED DRY POLYESTER POWDER COATING THEN BAKED TO CURE.
- CONCRETE FOUNDATIONS INCLUDING EXCAVATION AND BACKFILL, CONCRETE, AND ANCHOR BOLTS, COMPLETE IN PLACE, WILL BE CONSIDERED INCIDENTAL TO THE METER PEDESTAL.
- UPS BATTERIES SHALL BE HOT-SWAPPABLE.

NO.	DESCRIPTION	DATE	BY
3			
2			
1			

CITY OF SANTA FE  
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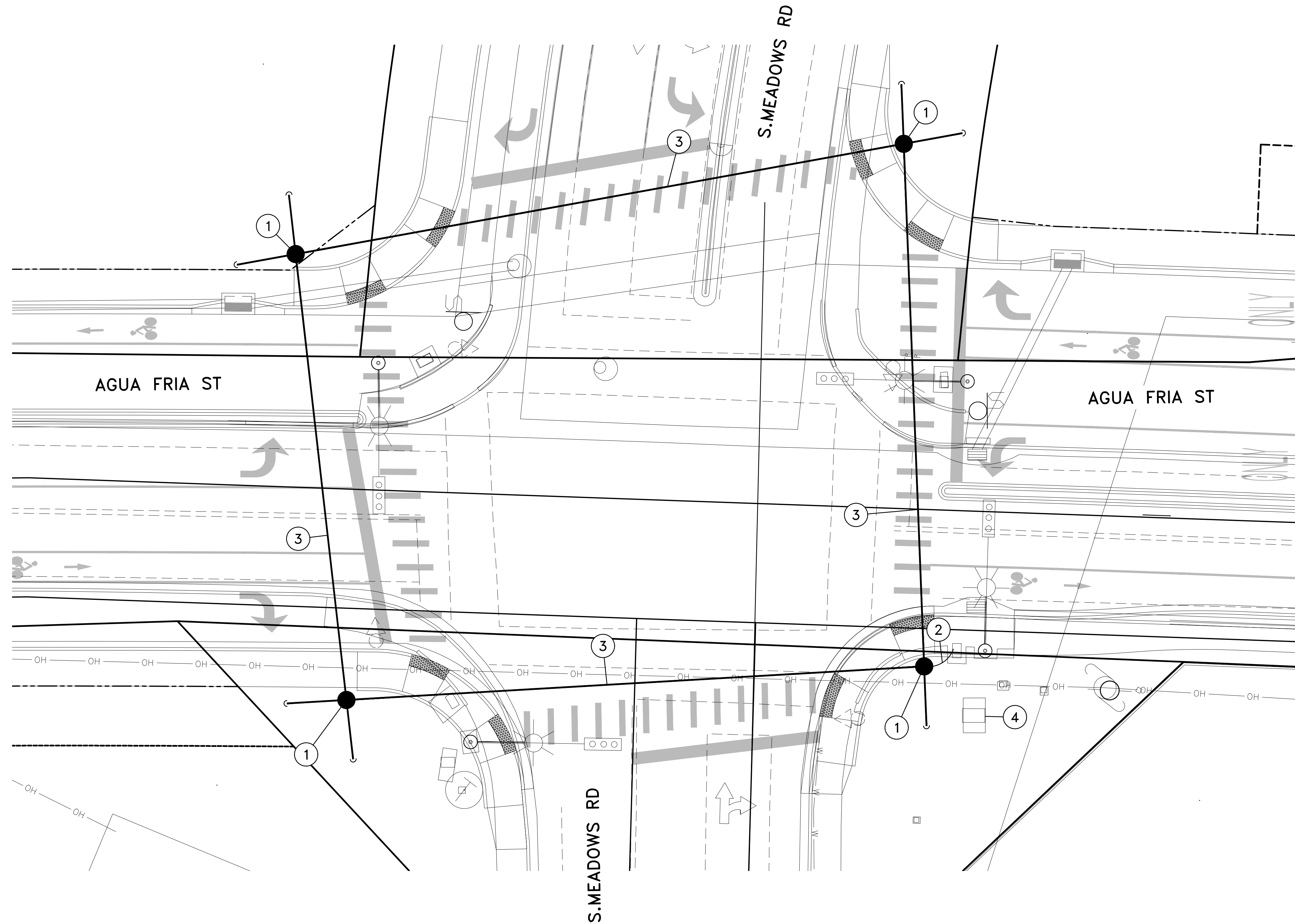
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

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CONSTRUCTION

TRAFFIC SIGNAL METER  
PEDESTAL DETAIL

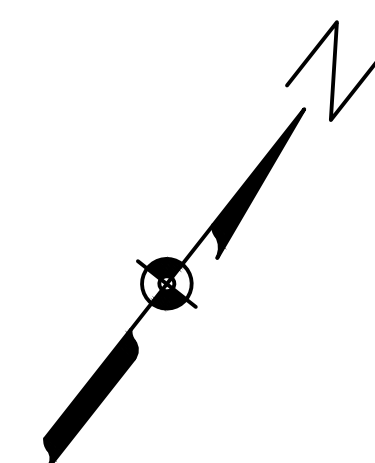
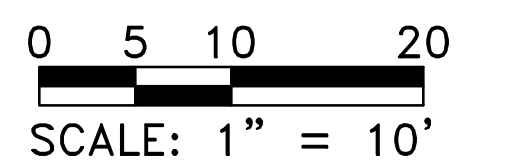
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**SHEET KEYNOTES**

- ① WOOD POLE W/ DOWN GUYS.
- ② INTERCEPT EXISTING PULL BOX. INSTALL CONDUIT UNDERGROUND FROM PULL BOX TO TEMPORARY POLE AND RISER UP POLE.
- ③ INSTALL OVERHEAD SPAN WIRING AND SIGNAL HEADS. ADJUST TO FIT LANE CONFIGURATIONS AND RELOCATE OVER LANES AS REQUIRED.
- ④ UTILIZE EXISTING CONTROLLER AND CABINET FOR TEMPORARY SIGNAL SPAN. TRANSFER FROM EXISTING SIGNAL TO TEMPORARY SIGNAL TO BE CONDUCTED UNDER POLICE CONTROL WITH CITY TRAFFIC PERSONNEL ASSISTANCE.



**TEMPORARY TRAFFIC SIGNAL PLAN**  
SCALE: 1" = 10'

NO.	DESCRIPTION	DATE	BY
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

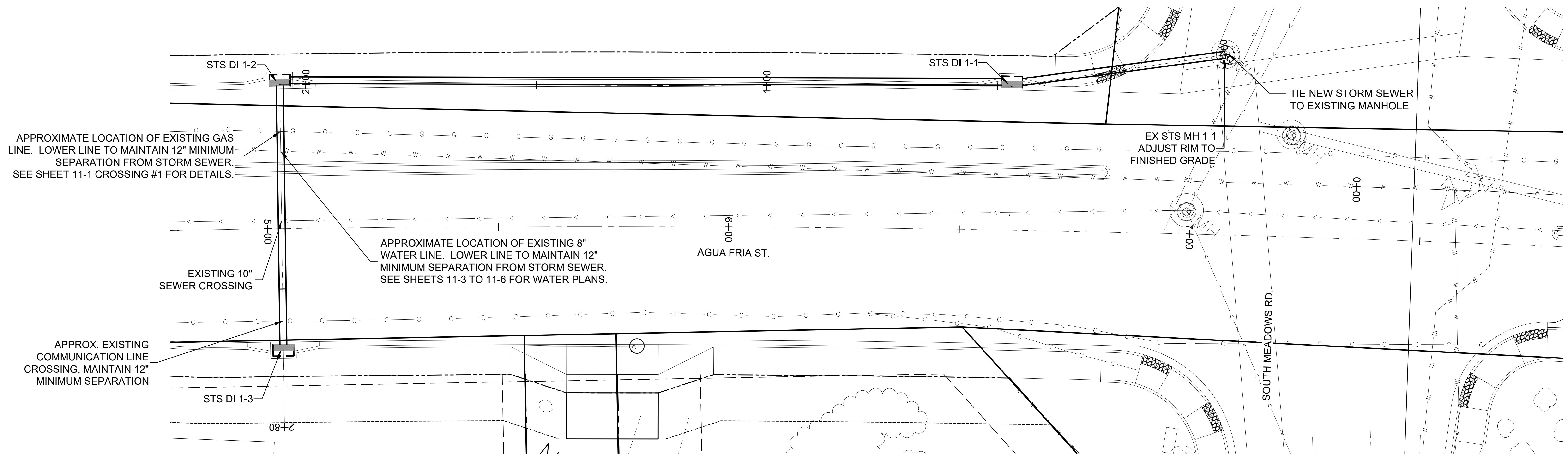
CITY OF SANTA FE  
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AGUA FRIA STREET AND  
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TEMPORARY TRAFFIC  
SIGNAL PLAN

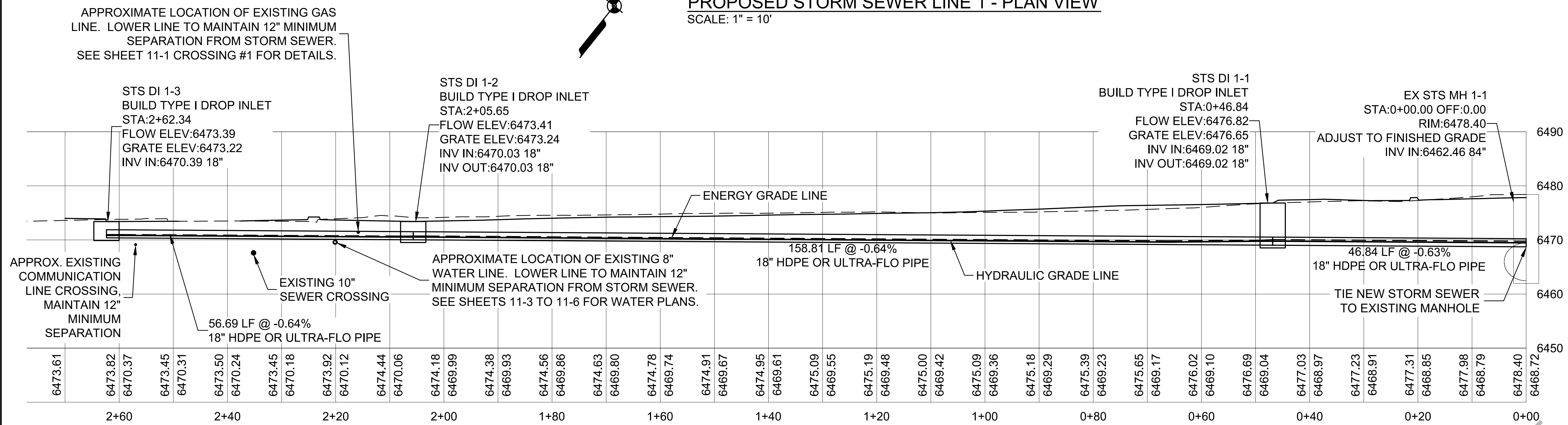
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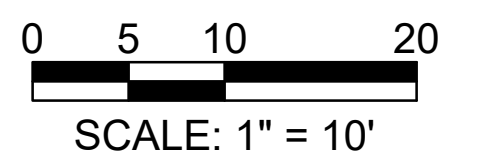


**PROPOSED STORM SEWER LINE 1 - PLAN VIEW**  
SCALE: 1" = 10'

- NOTES:
1. REFER TO N.M.D.O.T. DETAILS FOR TYPE I DROP INLET, SHEET 12-3.
  2. USE CITY OF SANTA FE GRATE SPACING FOR ALL INLET GRATES, SEE DETAILS, SHEET 12-1.
  3. SEE SHEET 11-1 FOR UTILITY CROSSING INFORMATION.



**PROPOSED STORM SEWER LINE 1 - PROFILE VIEW**  
SCALE HORIZ: 1" = 10'  
VERT: 1" = 10'



NO.	DESCRIPTION	DATE	BY
3			
2			
1			

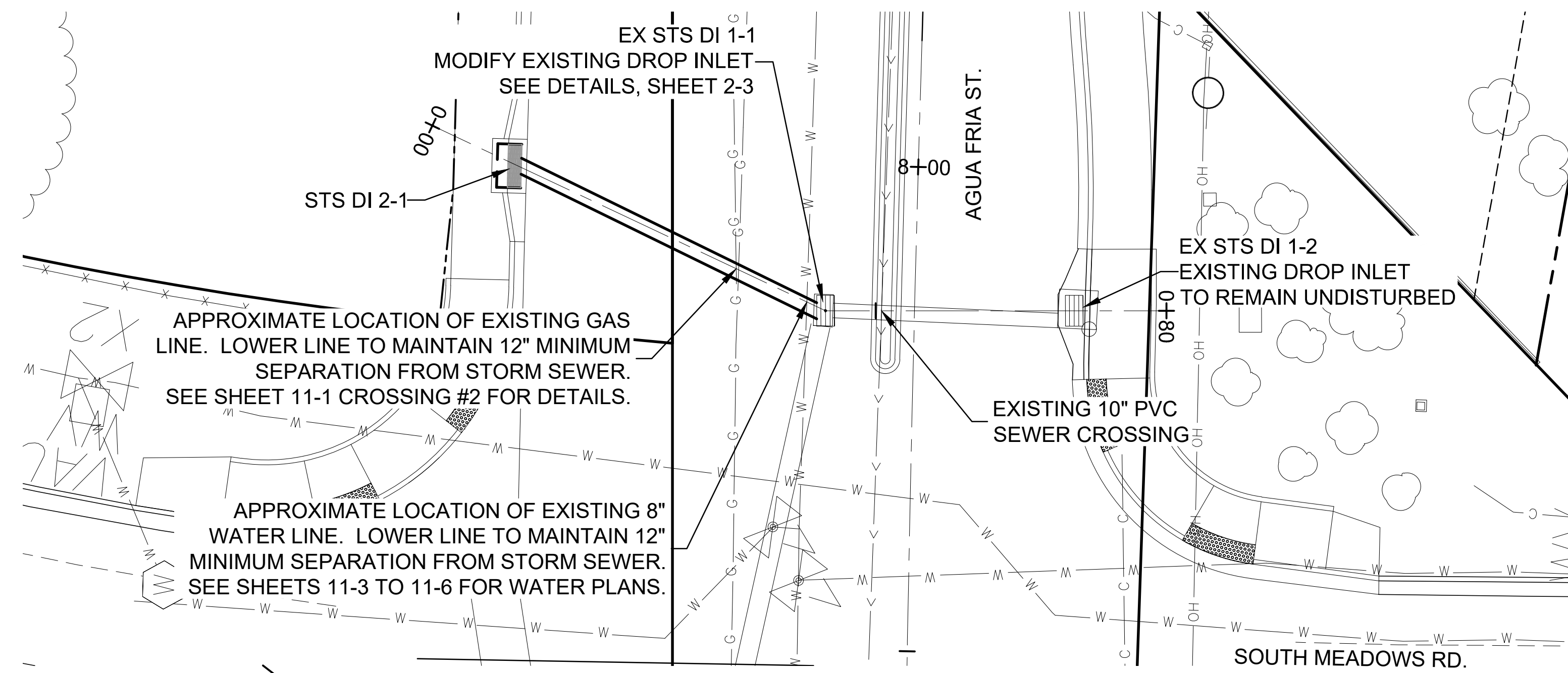
REVISIONS (OR CHANGE NOTICES)

**CITY OF SANTA FE**  
**CIP# 853C**

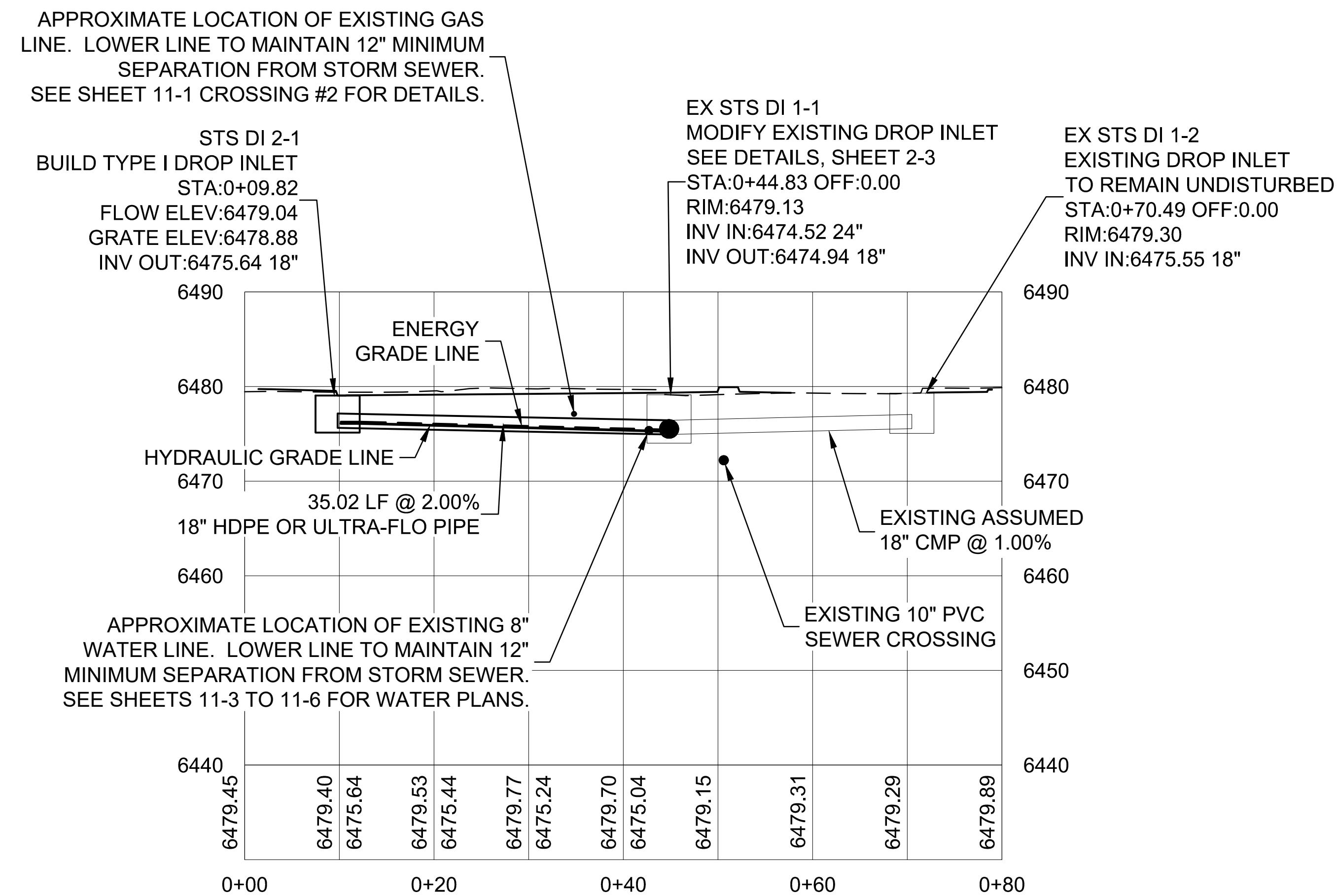
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS

100% PS&E SUBMITTAL  
NOT FOR CONSTRUCTION

STRUCTURE SECTIONS

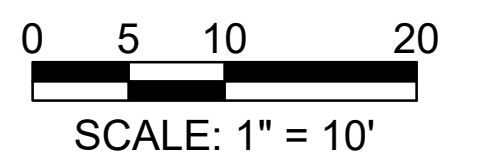


**PROPOSED STORM SEWER LINE 2 - PLAN VIEW**  
 SCALE: 1" = 10'



**PROPOSED STORM SEWER LINE 2 - PROFILE VIEW**  
 SCALE HORIZ: 1" = 10'  
 VERT: 1" = 10'

- NOTES:
1. REFER TO N.M.D.O.T. DETAILS FOR TYPE I DROP INLET, SHEET 12-3.
  2. USE CITY OF SANTA FE GRATE SPACING FOR ALL INLET GRATES, SEE DETAILS, SHEET 12-1.
  3. SEE SHEET 11-1 FOR UTILITY CROSSING INFORMATION.



NO.	DESCRIPTION	DATE	BY
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
 CIP# 853C

AGUA FRIA STREET AND  
 SOUTH MEADOWS ROAD  
 INTERSECTION IMPROVEMENTS

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 NOT FOR  
 CONSTRUCTION

STRUCTURE SECTIONS

DRAFT



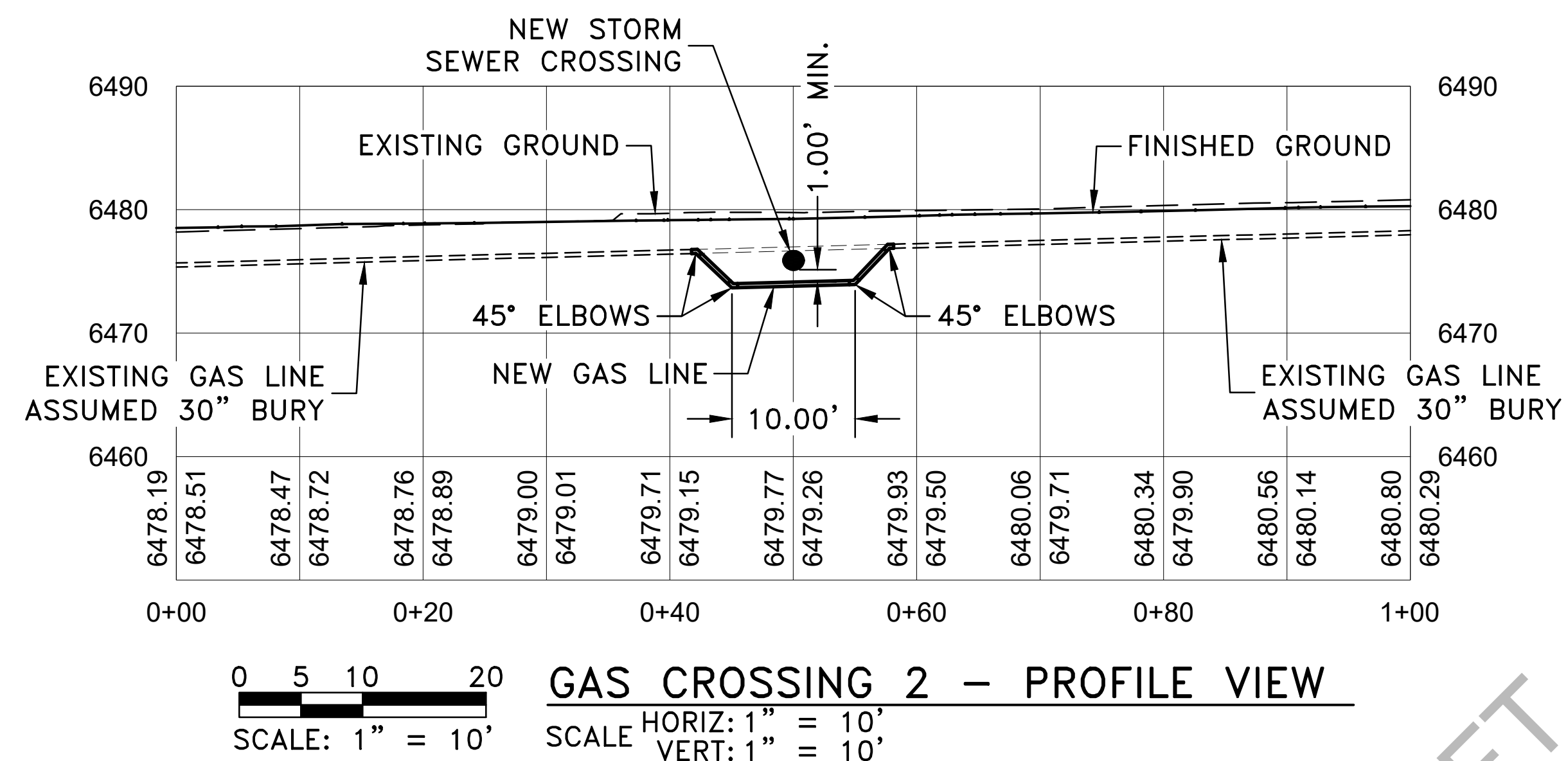
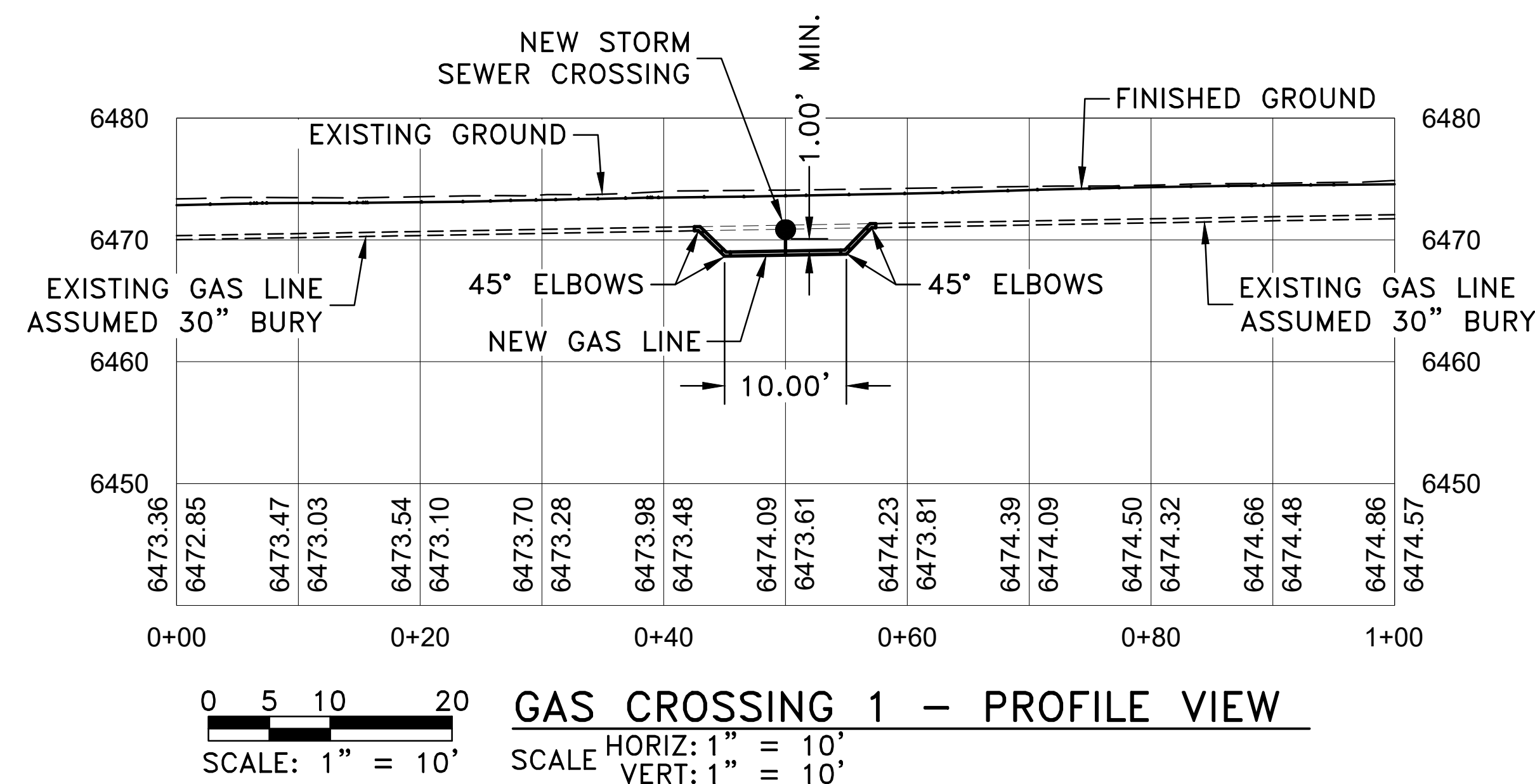
**UTILITY LEGEND**

—OH—	EXISTING OVERHEAD UTILITY LINE	—OHE—	PROPOSED OVERHEAD UTILITY LINE
—W—	EXISTING WATER LINE	—WE—	PROPOSED WATER LINE
—C—	EXISTING SANITARY SEWER LINE	—G—	PROPOSED GAS LINE
—C—C—	EXISTING COMMUNICATIONS LINE	⦿	PROPOSED FIRE HYDRANT
—G—G—	EXISTING APPROXIMATE GAS LINE	○	PROPOSED WATER METER
⊙	EXISTING MANHOLE	⦿	PROPOSED UTILITY POLE
⊕	EXISTING FIRE HYDRANT	○	PROPOSED GAS METER
⊕	EXISTING WATER METER	⦿	PROPOSED LIGHTING
⊗	EXISTING WATER VALVE		
⊙	EXISTING GAS METER		
⦿	EXISTING UTILITY POLE		

UTILITY CONTACT INFORMATION		
COMPANY	CONTACT	PHONE NUMBER
PNM	ERIC WINKLER	(505) 473-3231
CENTURY LINK	DOUG DALE	(505) 473-2194
COMCAST	DAVID AIKIN	(505) 474-7886
NM GAS COMPANY	FRANK ARAGON	(505) 470-0668
SANGRE DE CRISTO WATER COMPANY	JOHN DELMAR, P.E.	(505) 955-4231
CITY OF SANTA FE WASTE WATER DIVISION	STAN HOLLAND, P.E.	(505) 955-4637

**NOTES:**

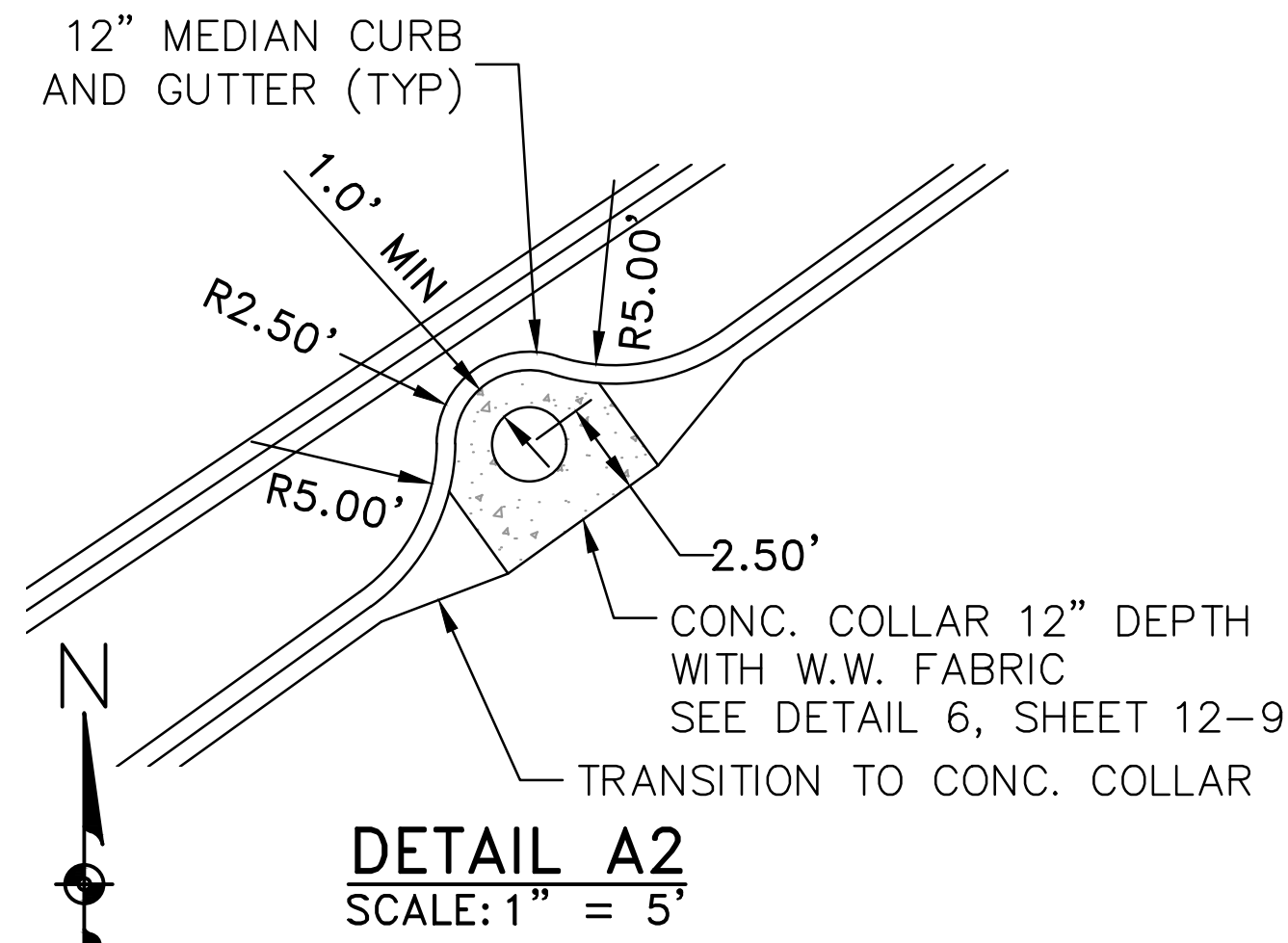
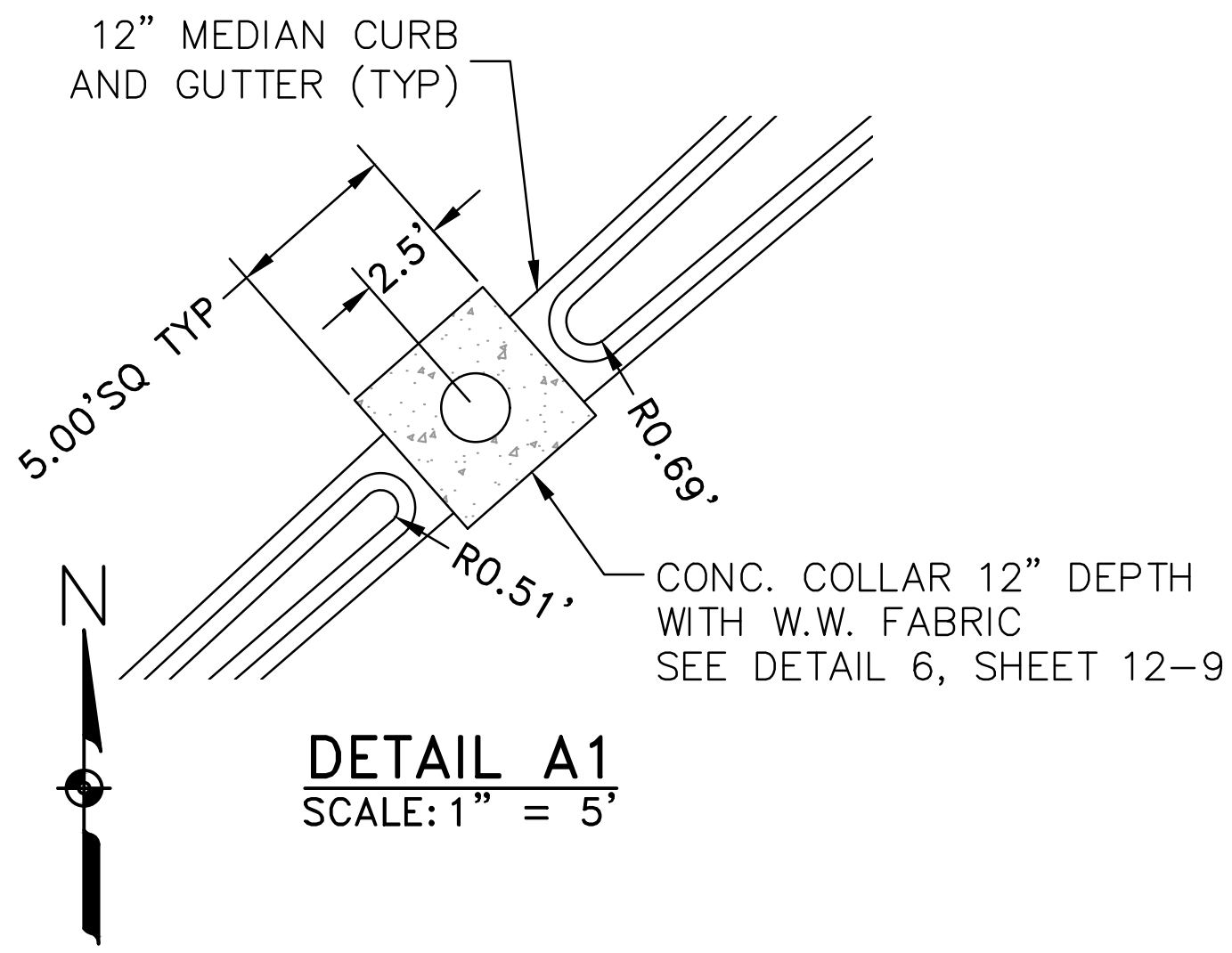
- ADJUST ALL UTILITIES TO FINISHED GRADE. INSTALL CONCRETE COLLARS FOR ALL UTILITIES WITHIN PAVED AREA.
- COORDINATE ALL SERVICE RELOCATIONS WITH RESPECTIVE UTILITY COMPANIES AND PROPERTY OWNERS.
- ANY REMOVALS OF EQUIPMENT, MATERIALS, METERS, PEDESTALS, SERVICES, OR APPURTENANCES NOT LISTED ON THESE PLANS THAT ARE REQUIRED TO COMPLETE THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
- THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS HAVE BEEN COMPILED FROM MULTIPLE SOURCES, INCLUDING UTILITY LOCATES, POT HOLE LOCATIONS AND FIELD SURVEYS.
- SOME AREAS OF POTENTIAL CONFLICT BETWEEN UTILITIES AND PROPOSED CONSTRUCTION HAVE BEEN OUTLINED ON THESE PLANS. THE CONFLICTING UTILITIES AND SERVICES WITHIN THE RIGHT OF WAY WILL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY. COORDINATION WITH UTILITY COMPANIES IS REQUIRED PER NOTE #19 SHEET 1-6.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND POTHOLE ANY POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
- ANY GRADING ACTIVITIES EXTENDING INTO UTILITY EASEMENTS WILL REQUIRE POT HOLE BY THE CONTRACTOR TO VERIFY ADEQUATE DEPTHS OF COVER ARE MAINTAINED.
- ANY SCHEDULED OUTAGES OR MODIFICATIONS TO UTILITIES REQUIRE COORDINATION WITH THE RESPECTIVE UTILITY COMPANY.
- ANY UTILITY SERVICE STUBS WILL BE EXTENDED BEHIND BACK OF PROPOSED SIDEWALK SO FUTURE CONNECTIONS WILL NOT REQUIRE EXCAVATION IN THE RIGHT OF WAY. THIS SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR 663000 - UTILITY RELOCATION.



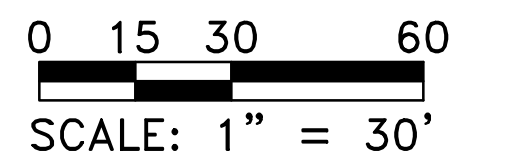
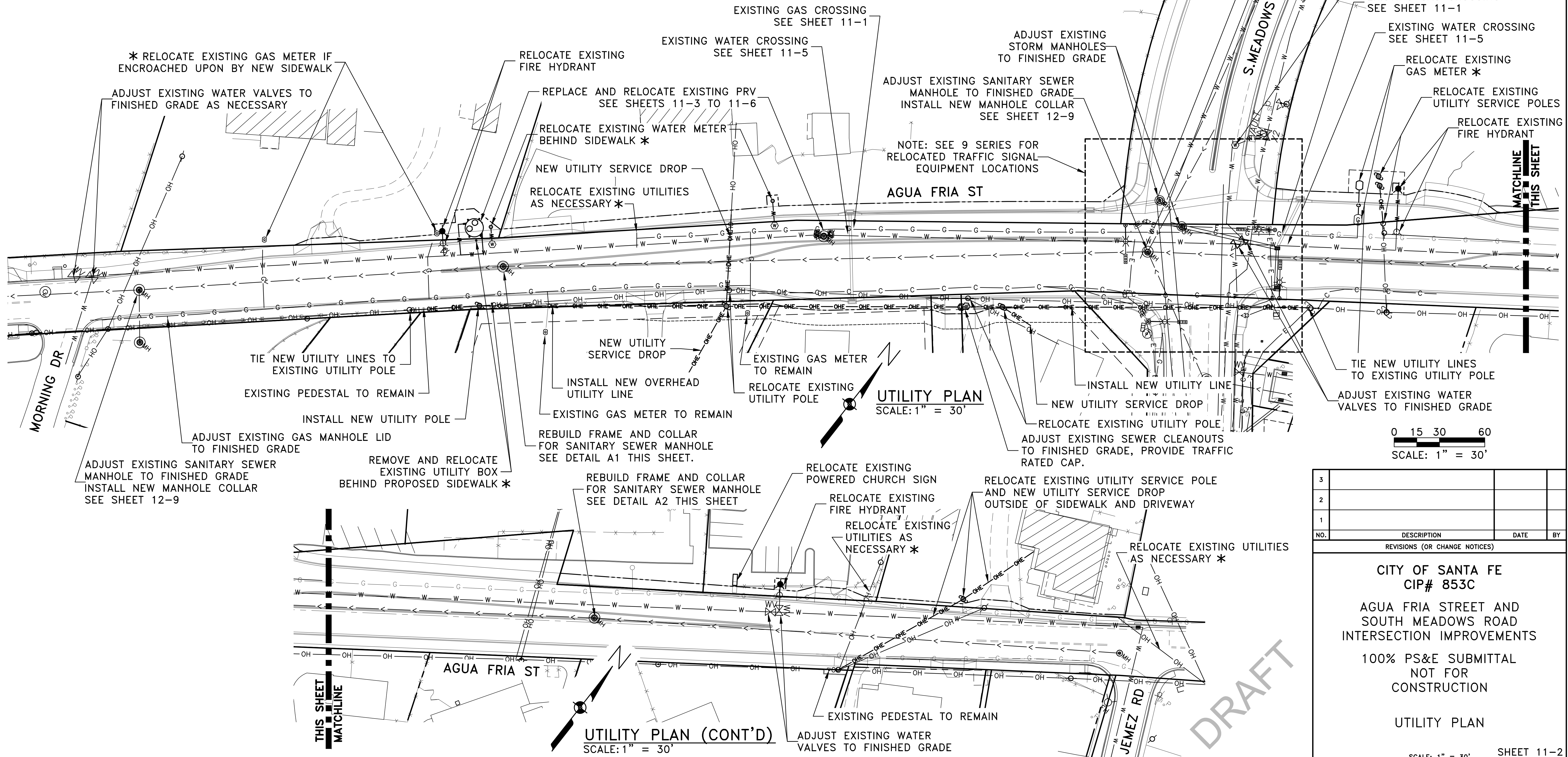
NO.	DESCRIPTION	DATE	BY
3			
2			
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CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL NOT FOR CONSTRUCTION  
UTILITY NOTES

DRAFT



*** STUBOUT NOTE:**  
ANY UTILITY SERVICE STUBS WILL BE EXTENDED BEHIND BACK OF NEW SIDEWALK. SEE NOTE #9, SHEET 11-1 FOR DETAILS.



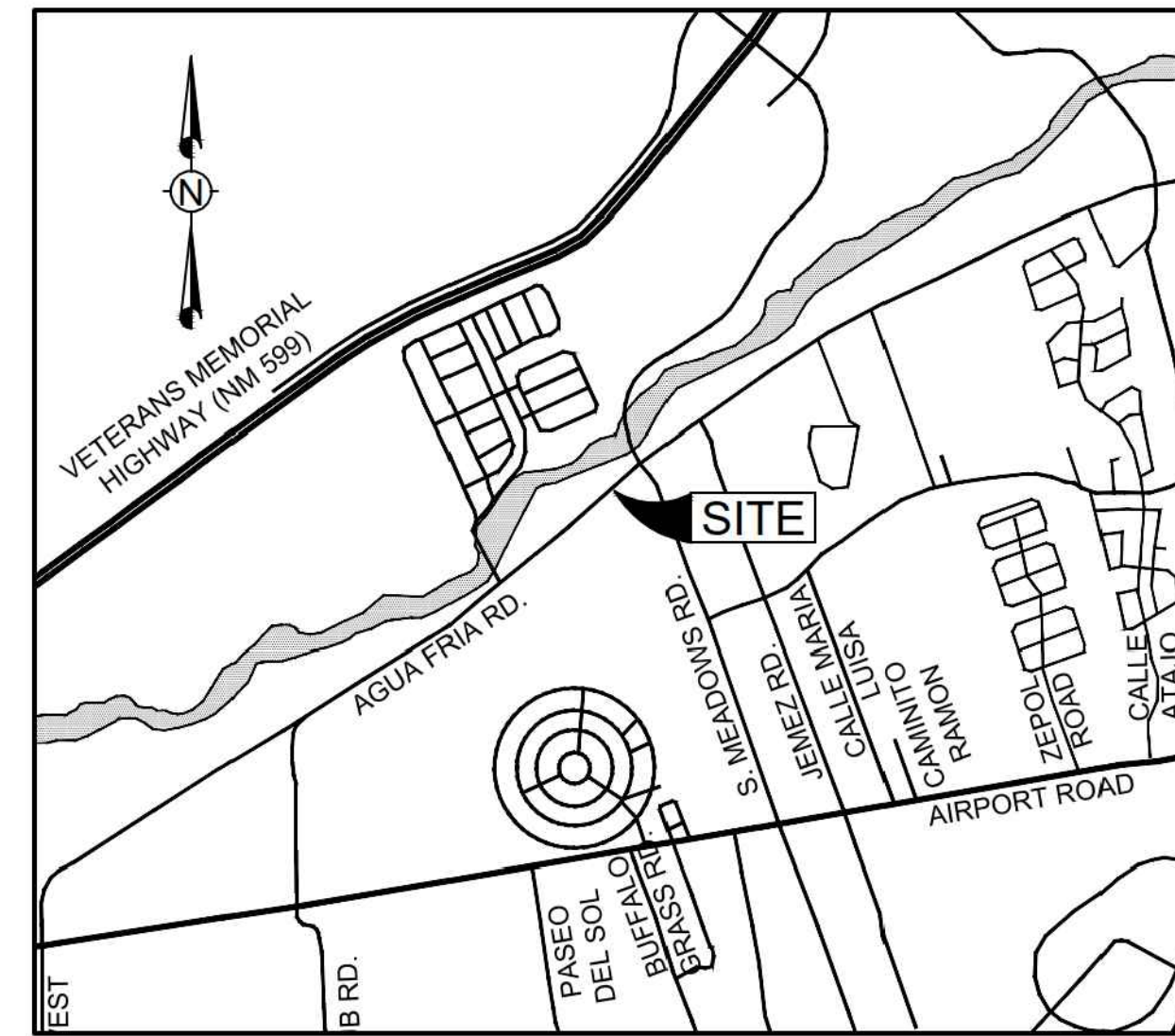
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NO.	DESCRIPTION	DATE	BY

CITY OF SANTA FE  
CIP# 853C  
AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS  
100% PS&E SUBMITTAL NOT FOR CONSTRUCTION  
UTILITY PLAN



**GENERAL NOTES**

1. CONTRACTOR WILL NOTIFY SDCW 5 DAYS PRIOR TO COMMENCEMENT OF WORK.
2. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE SANGRE DE CRISTO WATER DIVISION CONSTRUCTION SPECIFICATIONS.
3. ALL EASEMENTS WILL BE DEDICATED, CLEARED AND GRADED, AND STAKED PRIOR TO WATER LINE INSTALLATION.
4. ALL STREETS WILL BE CUT TO GRADE PRIOR TO WATER LINE INSTALLATION.
5. ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. CURB AND GUTTER WILL BE INSTALLED PRIOR TO WATER LINE INSTALLATION UNLESS OTHERWISE APPROVED IN WRITING BY SDCW.
6. CONTRACTOR (DEVELOPER) SHALL PROVIDE CONSTRUCTION STAKING UTILIZING THE APPROPRIATE RIGHT-OF-WAY MAPS, SIGNED PLATS AND SDCW DRAWING.
7. MATERIAL SUBMITTALS SHALL BE APPROVED BY SDCW PRIOR TO CONSTRUCTION.
8. CONTACT NEW MEXICO ONE CALL AT 1-800-321-2537, TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION FOR UTILITY SPOTS.
9. PRESSURE REGULATOR WILL BE INSTALLED ON ALL SERVICES DOWNSTREAM FROM THE METER.
10. PRESSURE REGULATOR AND PRESSURE SYSTEMS MUST BE APPROVED BY THE CITY OF SANTA FE PRIOR TO INSTALLATION.
11. A MINIMUM OF 4 FEET COVER TOP OF PIPE TO BE MAINTAINED.
12. CONTRACTOR TO SUBMIT VALVE TIES TO SDCW COMPANY WITHIN 5 DAYS OF COMPLETION.
13. CONTRACTOR TO SUBMIT FITTINGS TIES AND LENGTHS BETWEEN FITTINGS TO SDCW CO. 5 DAYS AFTER COMPLETION. THIS INCLUDES DISTANCES FROM CORPORATION TO CORPORATION. AS-BUILT QUANTITIES AND MEASUREMENTS SHALL BE LEGIBLE AND PROVIDED ON SDCW DRAWINGS OR OTHER AGREED UPON METHOD.
14. ALL VALVE BOXES TO BE BROUGHT UP TO GRADE AFTER FIRST COURSE OF ASPHALT AND BEFORE FINAL COURSE OF ASPHALT.
15. FIRE HYDRANTS SHALL BE NUMBERED USING REFLECTIVE NUMERALS. THE REFLECTIVE NUMERALS ARE TO BE OBTAINED BY THE CONTRACTOR FROM THE SDCW FIELD REPRESENTATIVE AT THE TIME THE INDIVIDUAL TASK AUTHORIZATION (ITA) IS ISSUED. NUMBERS SHALL BE LEGIBLE FROM THE ROAD.
16. A MECHANICAL RESTRAINT SYSTEM SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINT. CONCRETE THRUST BLOCKING TO BE USED ONLY FOR SPECIAL CONDITIONS (e.g. CAPS WHERE MAIN WILL BE EXTENDED IN FUTURE) AS SPECIFICALLY APPROVED BY SDCW.
17. ANY FIELD CHANGES TO THESE PLANS REQUIRES APPROVAL OF BOTH THE DESIGN ENGINEER AND SDCW.
18. WORK ON SDCW FACILITIES CANNOT PROCEED UNTIL SDCW HAS ISSUED AN INDIVIDUAL TASK AUTHORIZATION (ITA) TO UTILITY CONTRACTORS.
19. ALL TEES ARE MJ x MJ x FLG.
20. ALL VALVES ON TEES ARE FLG x MJ



**VICINITY MAP**  
SCALE: 1" = 2000'

**PROJECT DESCRIPTION:**

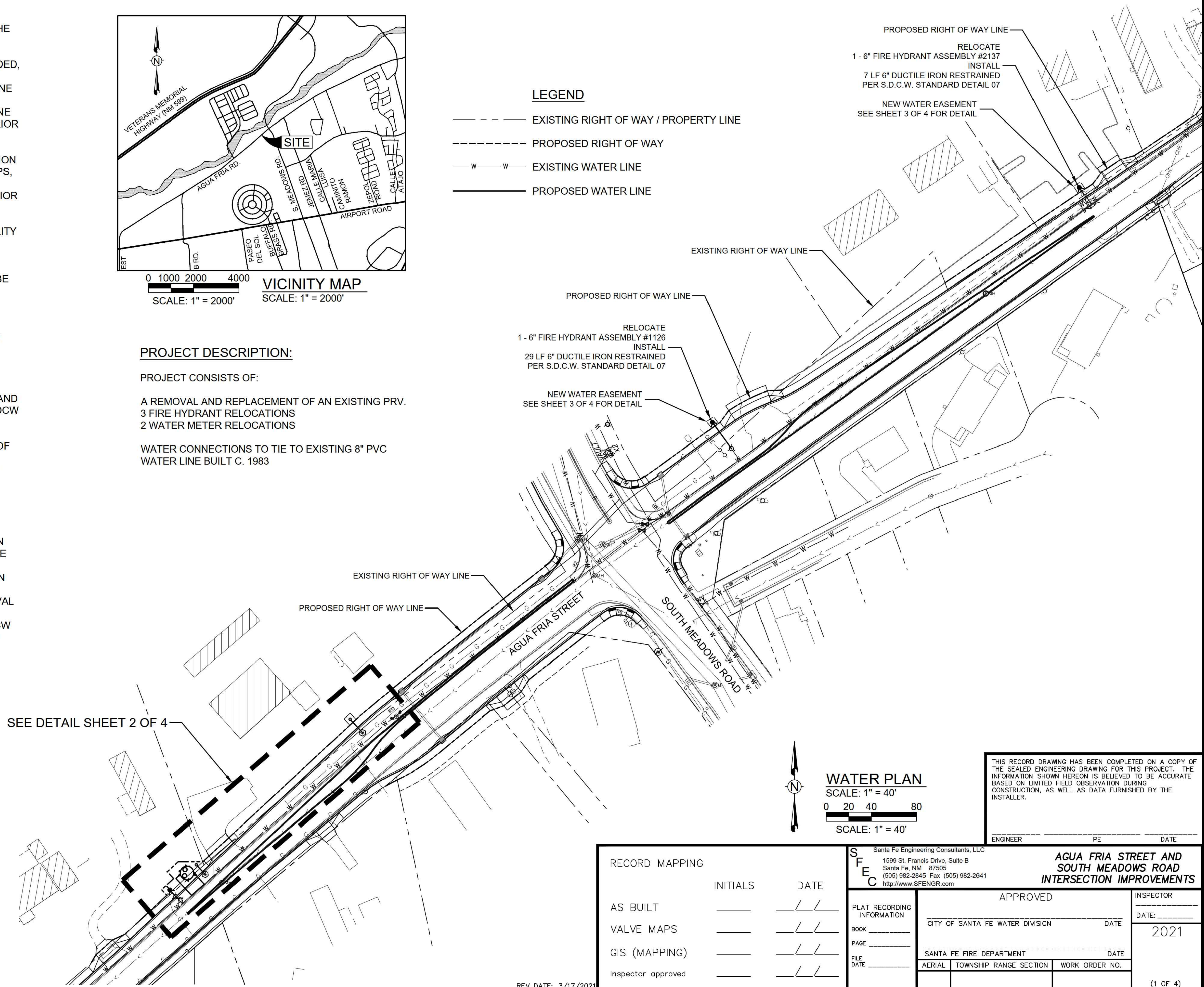
PROJECT CONSISTS OF:

A REMOVAL AND REPLACEMENT OF AN EXISTING PRV.  
3 FIRE HYDRANT RELOCATIONS  
2 WATER METER RELOCATIONS

WATER CONNECTIONS TO TIE TO EXISTING 8" PVC WATER LINE BUILT C. 1983

**LEGEND**

- EXISTING RIGHT OF WAY / PROPERTY LINE
- - - - - PROPOSED RIGHT OF WAY
- W - W - EXISTING WATER LINE
- PROPOSED WATER LINE



SEE DETAIL SHEET 2 OF 4

**WATER PLAN**  
SCALE: 1" = 40'

THIS RECORD DRAWING HAS BEEN COMPLETED ON A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT. THE INFORMATION SHOWN HEREON IS BELIEVED TO BE ACCURATE BASED ON LIMITED FIELD OBSERVATION DURING CONSTRUCTION, AS WELL AS DATA FURNISHED BY THE INSTALLER.

RECORD MAPPING		INITIALS		DATE	
AS BUILT	_____	_____	____/____/____	_____	____/____/____
VALVE MAPS	_____	_____	____/____/____	_____	____/____/____
GIS (MAPPING)	_____	_____	____/____/____	_____	____/____/____
Inspector approved	_____	_____	____/____/____	_____	____/____/____

Santa Fe Engineering Consultants, LLC 1599 St. Francis Drive, Suite B Santa Fe, NM 87505 (505) 982-2845 Fax (505) 982-2641 http://www.SFENGR.com		<b>AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS</b>	
PLAT RECORDING INFORMATION		APPROVED	
BOOK _____	CITY OF SANTA FE WATER DIVISION	DATE _____	INSPECTOR _____
PAGE _____	SANTA FE FIRE DEPARTMENT	DATE _____	2021
FILE DATE _____	AERIAL	TOWNSHIP RANGE SECTION	WORK ORDER NO.

REV DATE: 3/17/2021



**LEGEND**

--- EXISTING RIGHT OF WAY / PROPERTY LINE

- - - - - PROPOSED RIGHT OF WAY

- W - W - EXISTING WATER LINE

— — — — PROPOSED WATER LINE

REMOVE EXISTING SINGLE SERVICE METER  
INSTALL  
12 LF COPPER TUBING, MATCH EXISTING  
1 - NEW SINGLE SERVICE METER, MATCH EXISTING  
PER S.D.C.W. STANDARD DETAILS

NEW LOCATION OF NEW PRV  
SEE SECTION SHEET 3 OF 4

INSTALL  
1 - 8" 90° ELBOW  
4 LF 8" PVC  
2 - 8" MEGALUGS

RELOCATE  
1 - 6" FIRE HYDRANT ASSEMBLY #  
INSTALL  
8 LF 6" DUCTILE IRON RESTRAINED  
PER S.D.C.W. STANDARD DETAIL 07

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

INSTALL  
1 - 8" 90° TEE  
11 LF 8" PVC  
2 - 8" MJ x FLG GATE VALVE AND BOX,  
7 - 8" MEGALUGS

INSTALL  
15 LF 8" PVC

INSTALL  
1 - 8" 90° TEE  
11 LF 8" PVC  
2 - 8" MJ x FLG GATE VALVE AND BOX  
7 - 8" MEGALUGS

REMOVE EXISTING SINGLE SERVICE METER  
INSTALL  
17 LF COPPER TUBING, MATCH EXISTING  
1 - NEW SINGLE SERVICE METER, MATCH EXISTING  
PER S.D.C.W. STANDARD DETAILS

NEW WATER EASEMENT  
SEE SHEET 3 OF 4 FOR DETAIL

EXISTING CURB AND GUTTER  
TO BE REMOVED

PROPOSED CURB AND GUTTER

PROPOSED SIDEWALK

EXISTING TELEMETRY, CONTROLLERS AND  
UTILITY SERVICES FOR PRV 5105P1  
TO BE RELOCATED TO NEW PRV

EXISTING WATER VALVES  
AND PRV/WATER MAN HOLE  
TO BE REMOVED

WATER PLAN  
SCALE: 1" = 10'

0 5 10 20

SCALE: 1" = 10'

THIS RECORD DRAWING HAS BEEN COMPLETED ON A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT. THE INFORMATION SHOWN HEREON IS BELIEVED TO BE ACCURATE BASED ON LIMITED FIELD OBSERVATION DURING CONSTRUCTION, AS WELL AS DATA FURNISHED BY THE INSTALLER.

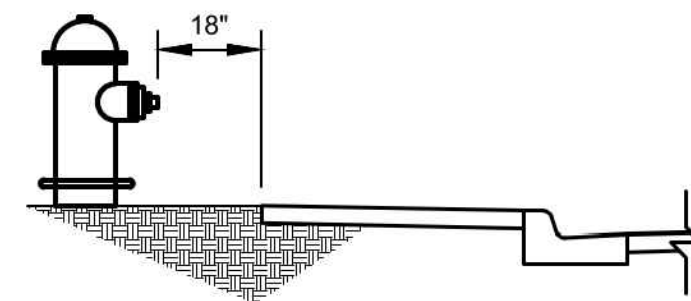
ENGINEER _____ PE _____ DATE _____

RECORD MAPPING	INITIALS	DATE
AS BUILT	_____	___/___/___
VALVE MAPS	_____	___/___/___
GIS (MAPPING)	_____	___/___/___
Inspector approved	_____	___/___/___

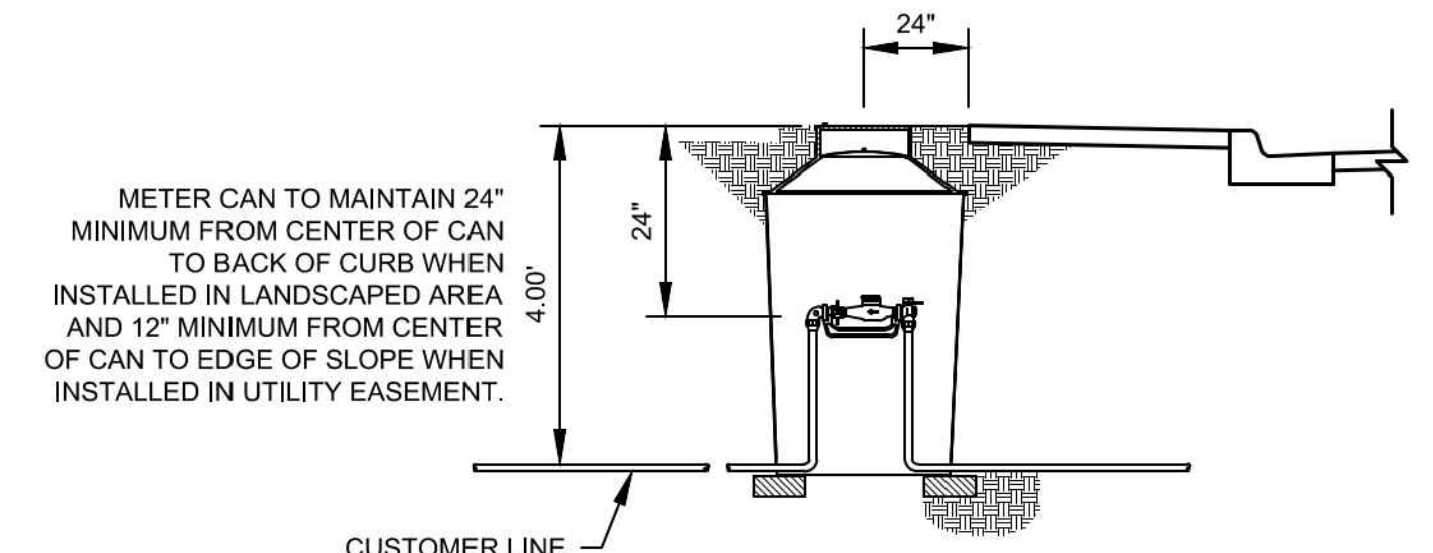
Santa Fe Engineering Consultants, LLC 1599 St. Francis Drive, Suite B Santa Fe, NM 87505 (505) 982-2845 Fax (505) 982-2641 <a href="http://www.SFENGR.com">http://www.SFENGR.com</a>		<b>AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS</b>	
PLAT RECORDING INFORMATION BOOK _____ PAGE _____ FILE DATE _____		APPROVED CITY OF SANTA FE WATER DIVISION DATE _____ SANTA FE FIRE DEPARTMENT DATE _____ AERIAL TOWNSHIP RANGE SECTION WORK ORDER NO. _____	
		INSPECTOR _____ DATE: 2021	
		(2 OF 4)	

REV DATE: 3/17/2021

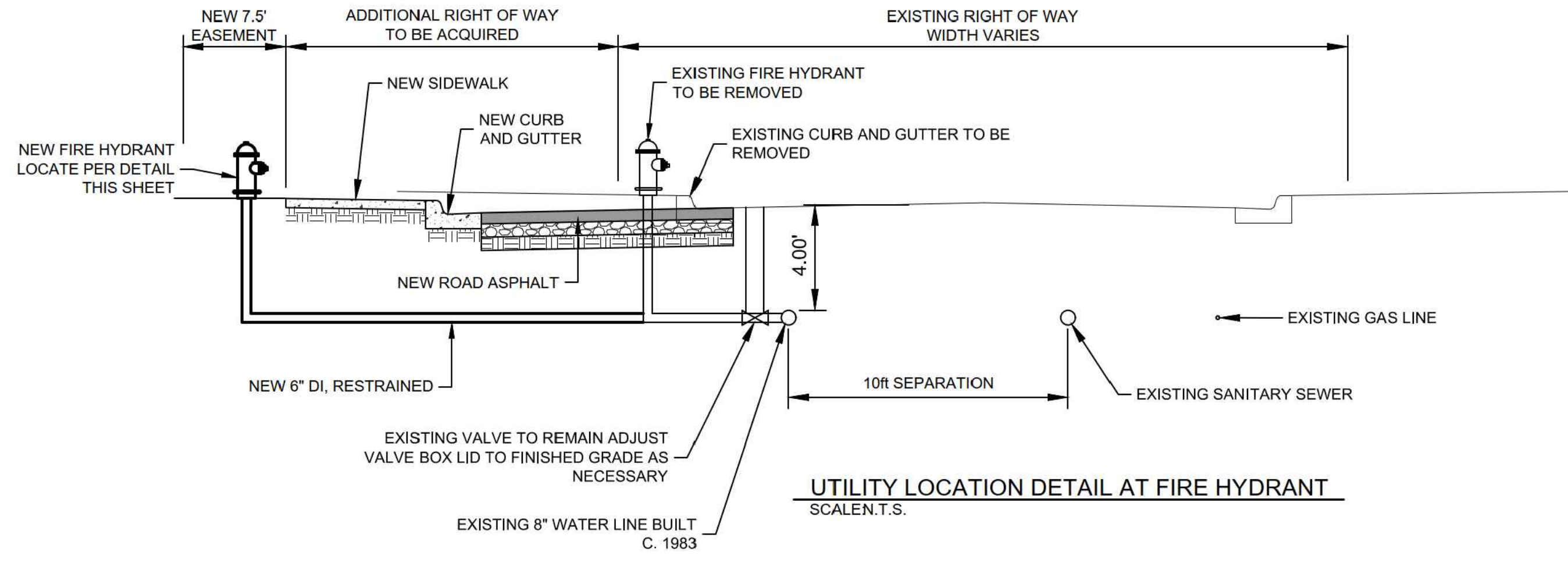




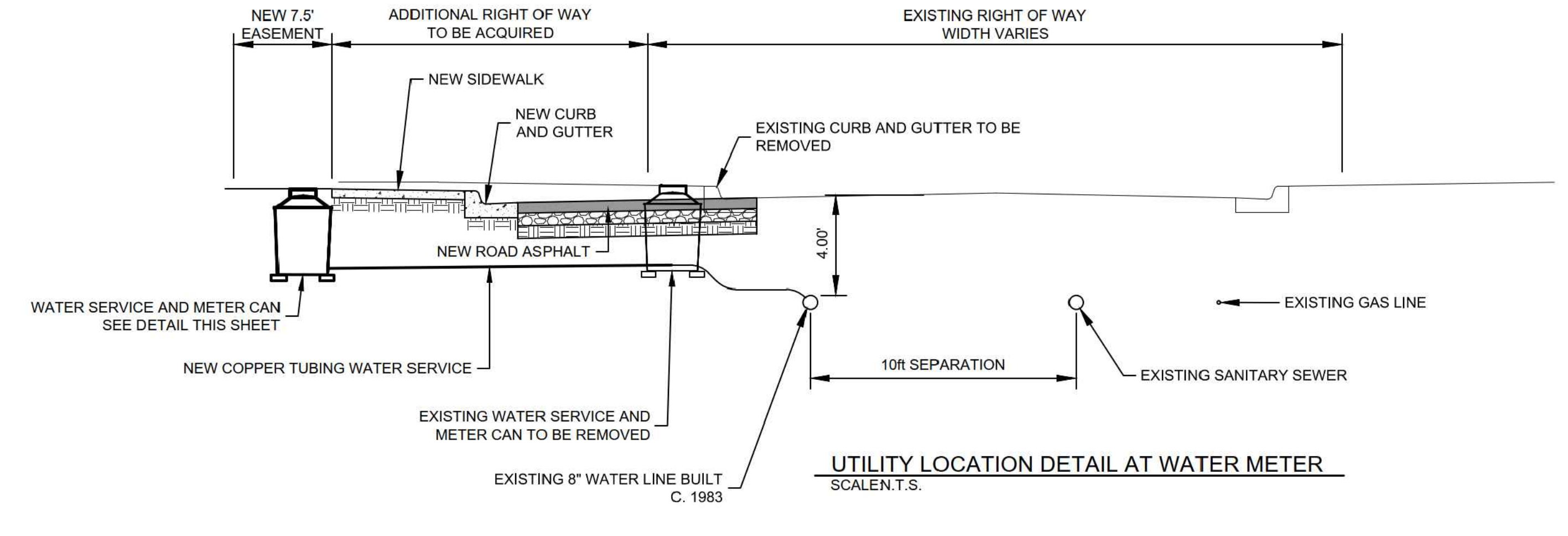
TYPICAL FIRE HYDRANT PLACEMENT DETAIL  
SCALE: N.T.S.



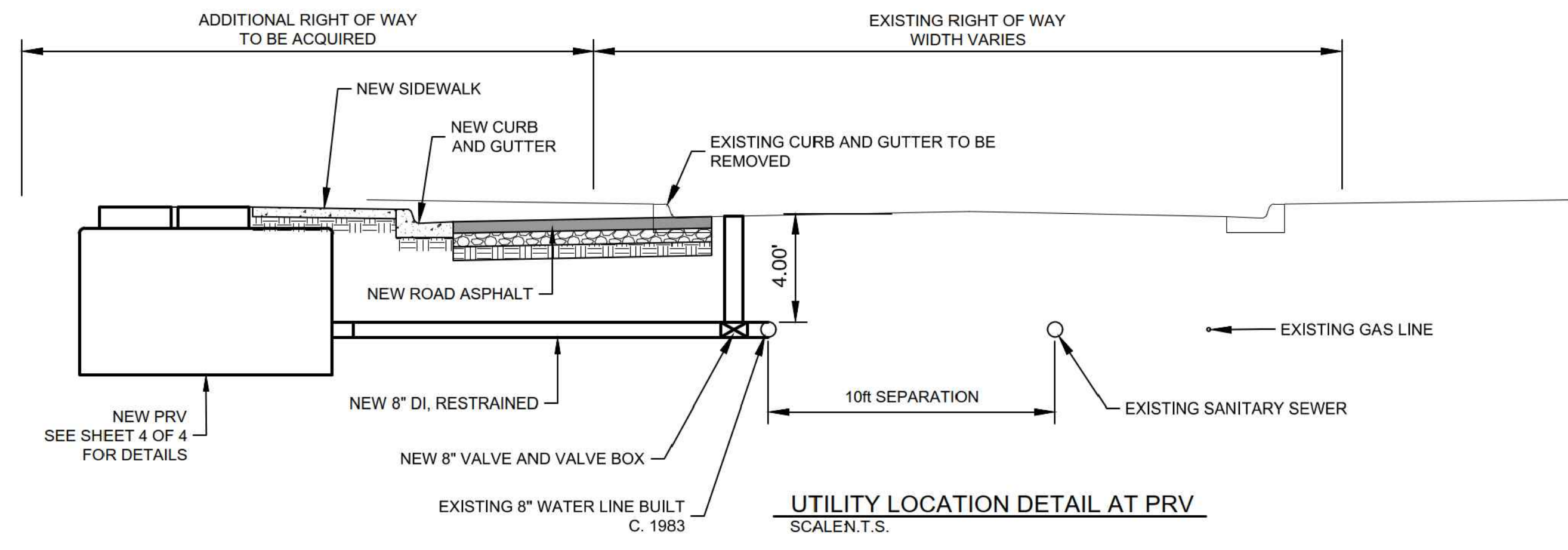
TYPICAL WATER SERVICE AND METER CAN PLACEMENT DETAIL  
SCALE: N.T.S.



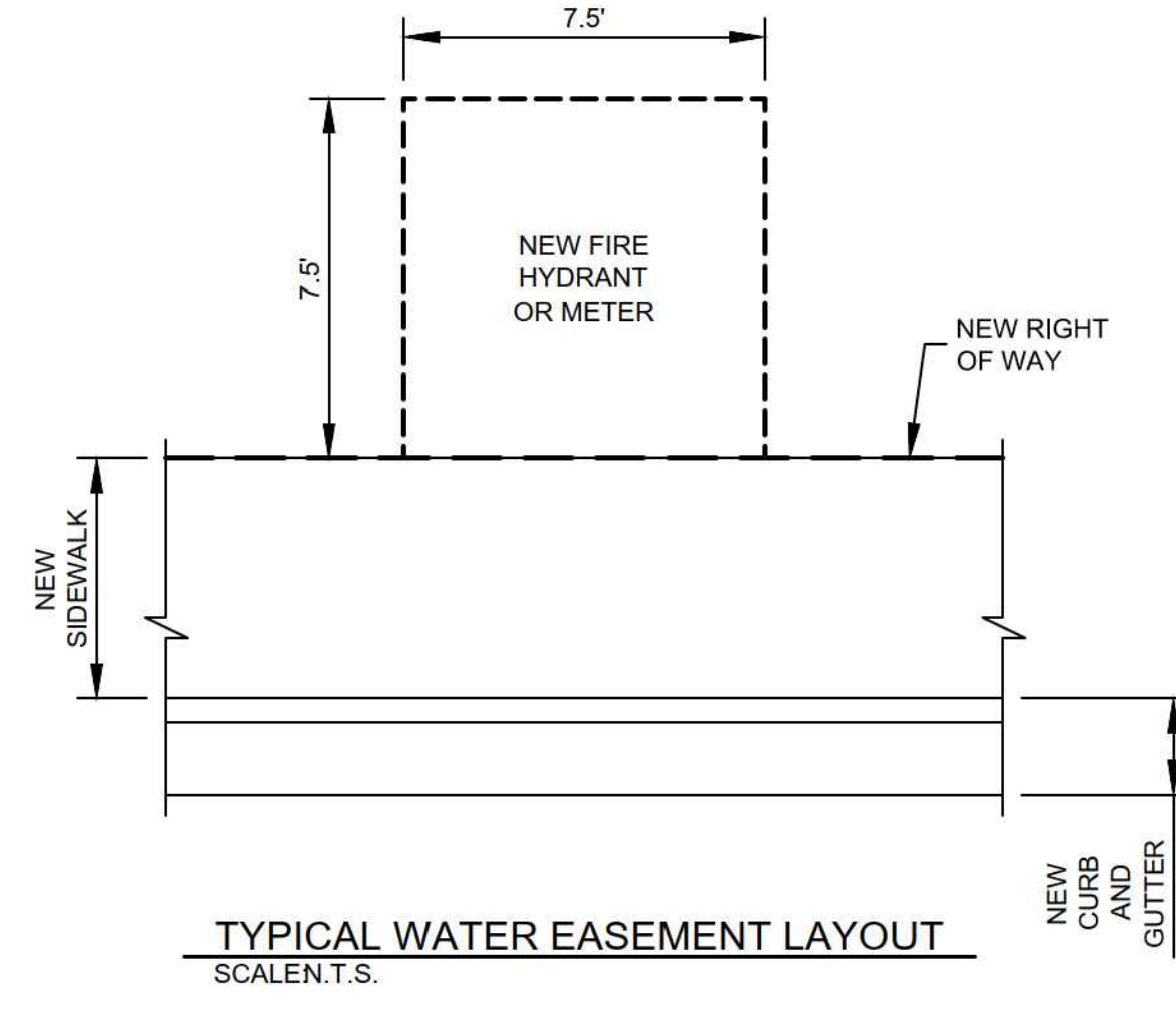
UTILITY LOCATION DETAIL AT FIRE HYDRANT  
SCALE: N.T.S.



UTILITY LOCATION DETAIL AT WATER METER  
SCALE: N.T.S.



UTILITY LOCATION DETAIL AT PRV  
SCALE: N.T.S.



TYPICAL WATER EASEMENT LAYOUT  
SCALE: N.T.S.

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ENGINEER _____ PE _____ DATE _____

RECORD MAPPING	INITIALS	DATE
AS BUILT	_____	___/___/___
VALVE MAPS	_____	___/___/___
GIS (MAPPING)	_____	___/___/___
Inspector approved	_____	___/___/___

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http://www.SFENGR.com

**AGUA FRIA STREET AND SOUTH MEADOWS ROAD INTERSECTION IMPROVEMENTS**

APPROVED _____ DATE _____

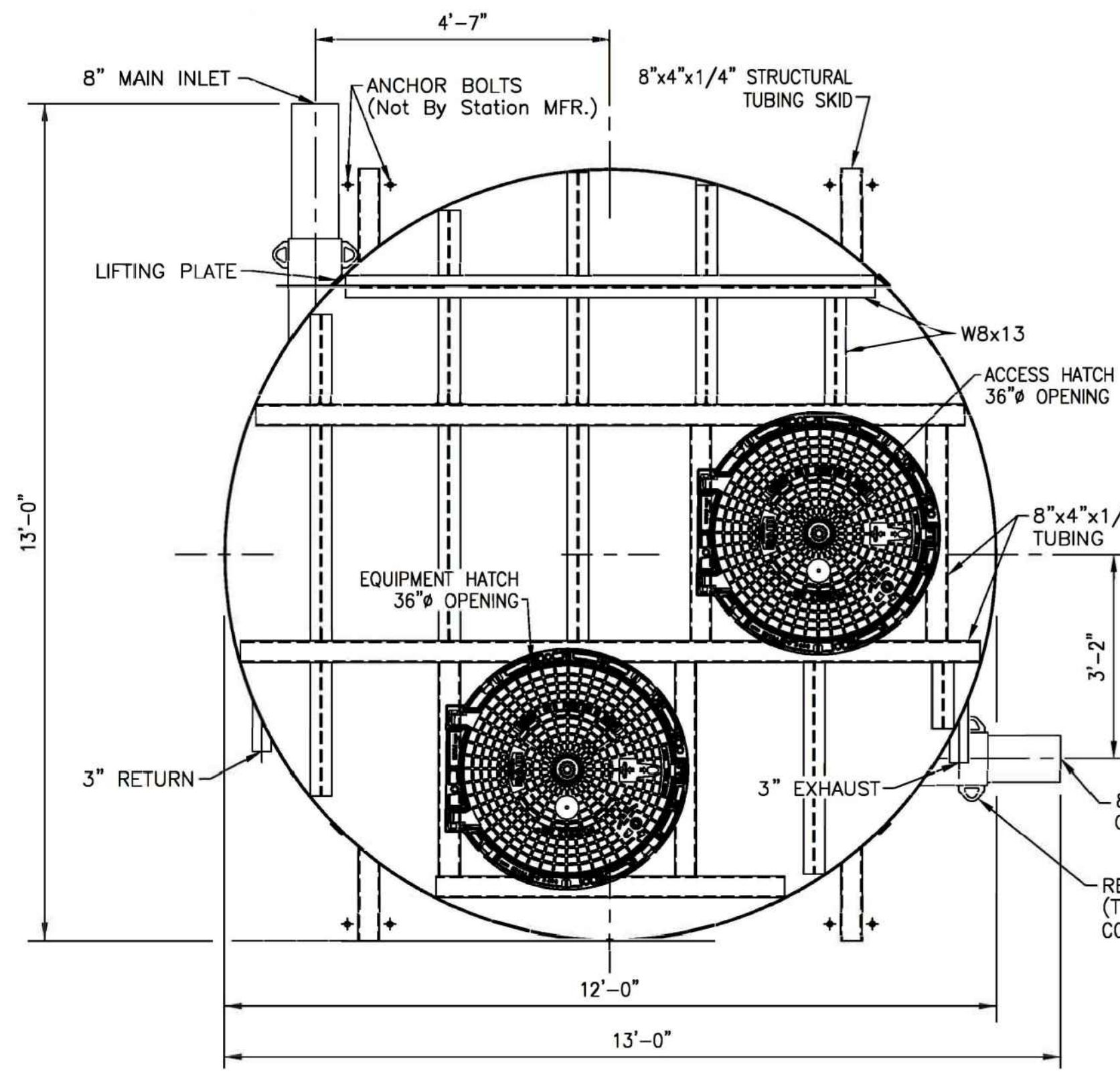
INSPECTOR _____ DATE: 2021

PLAT RECORDING INFORMATION  
BOOK _____ CITY OF SANTA FE WATER DIVISION DATE _____  
PAGE _____ SANTA FE FIRE DEPARTMENT DATE _____  
FILE DATE _____ AERIAL TOWNSHIP RANGE SECTION WORK ORDER NO. _____

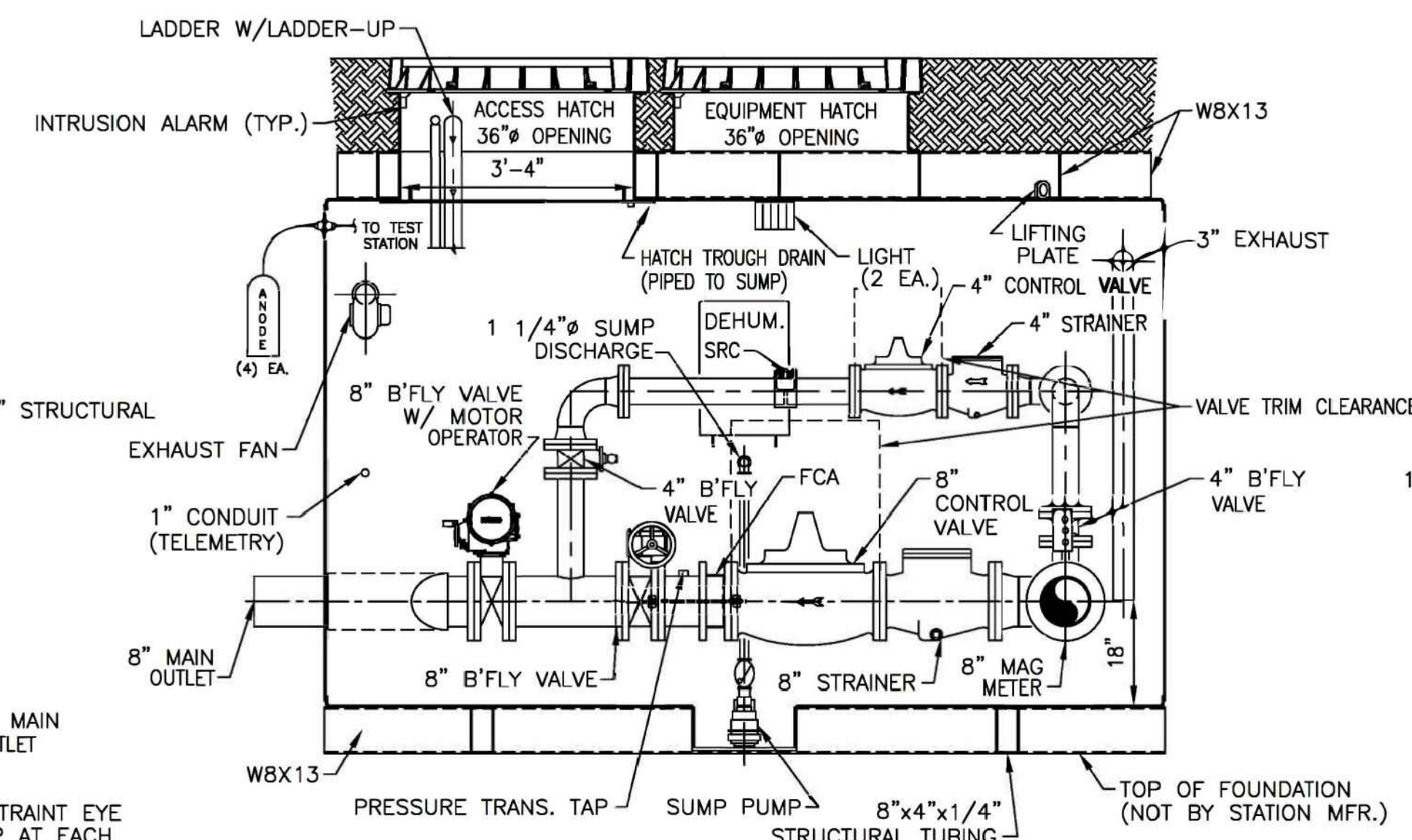
(3 OF 4)

REV DATE: 3/17/2021

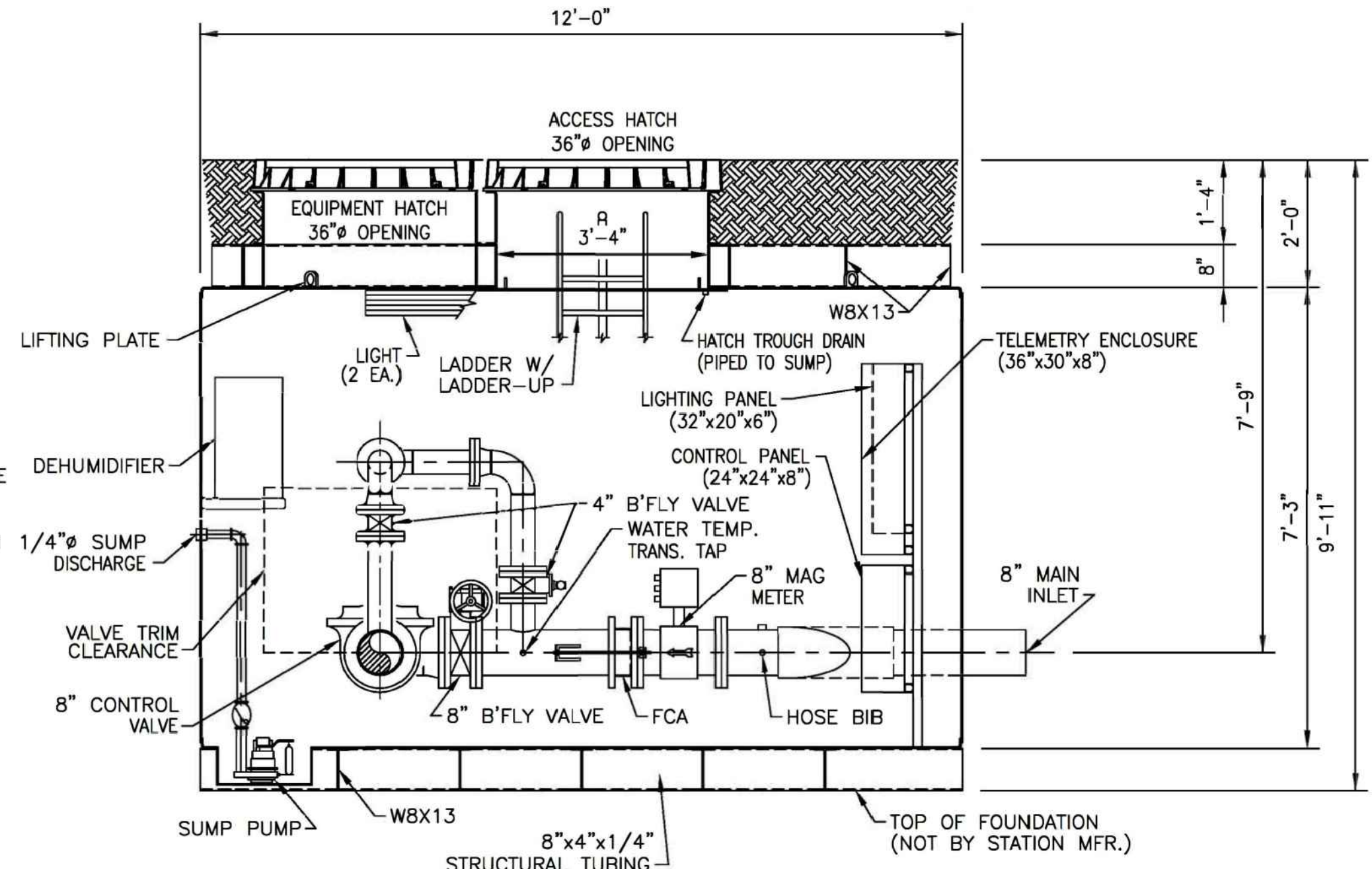




EXTERIOR PLAN

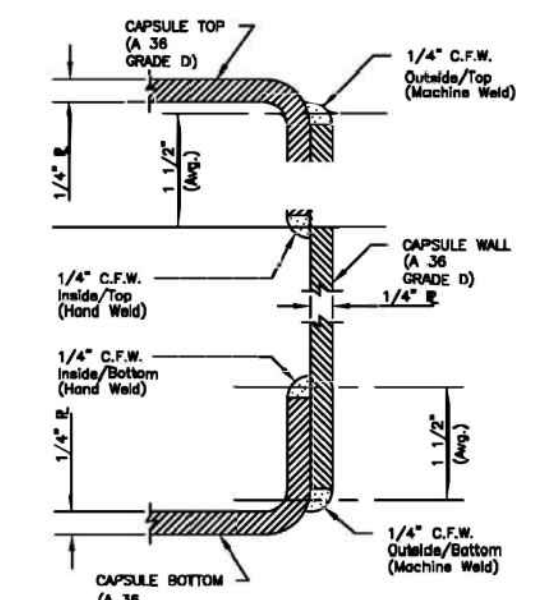


SECTION A-A

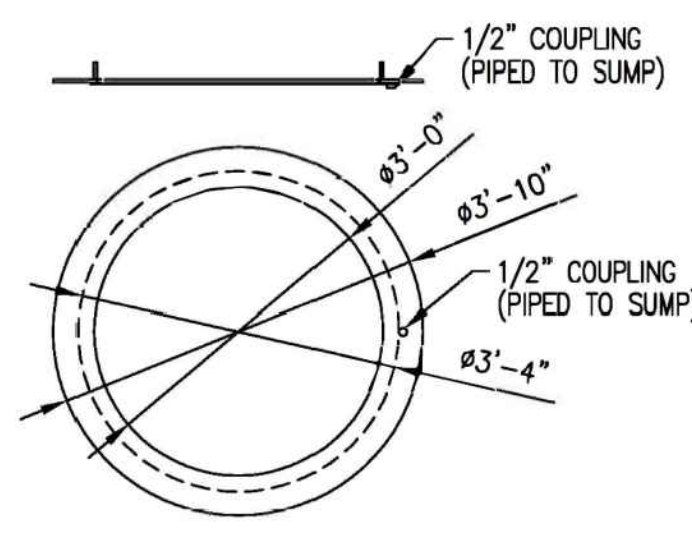


SECTION B-B

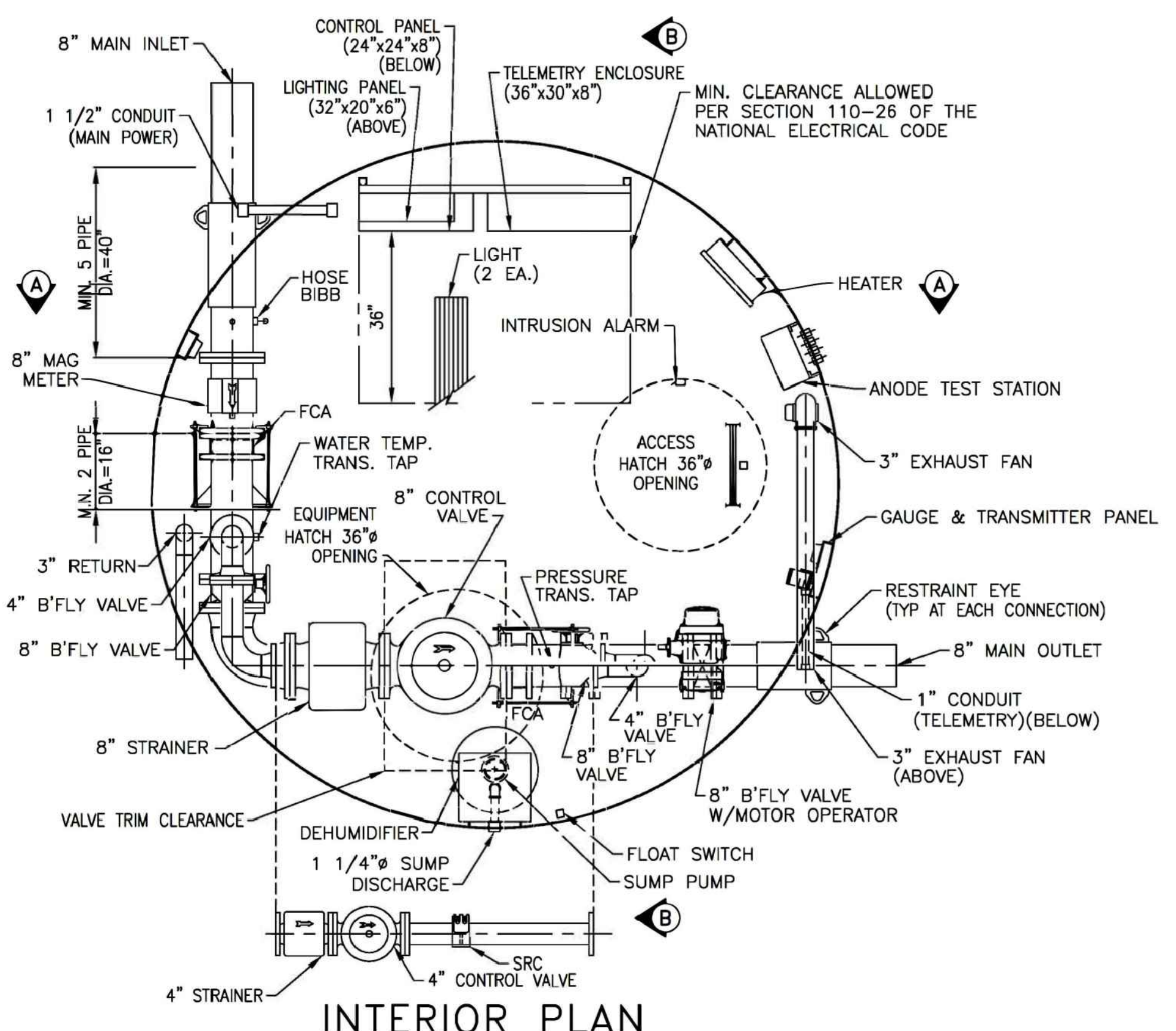
NOTE: CAPSULE AND HATCH ARE DESIGNED FOR H-20 TRAFFIC LOADING.



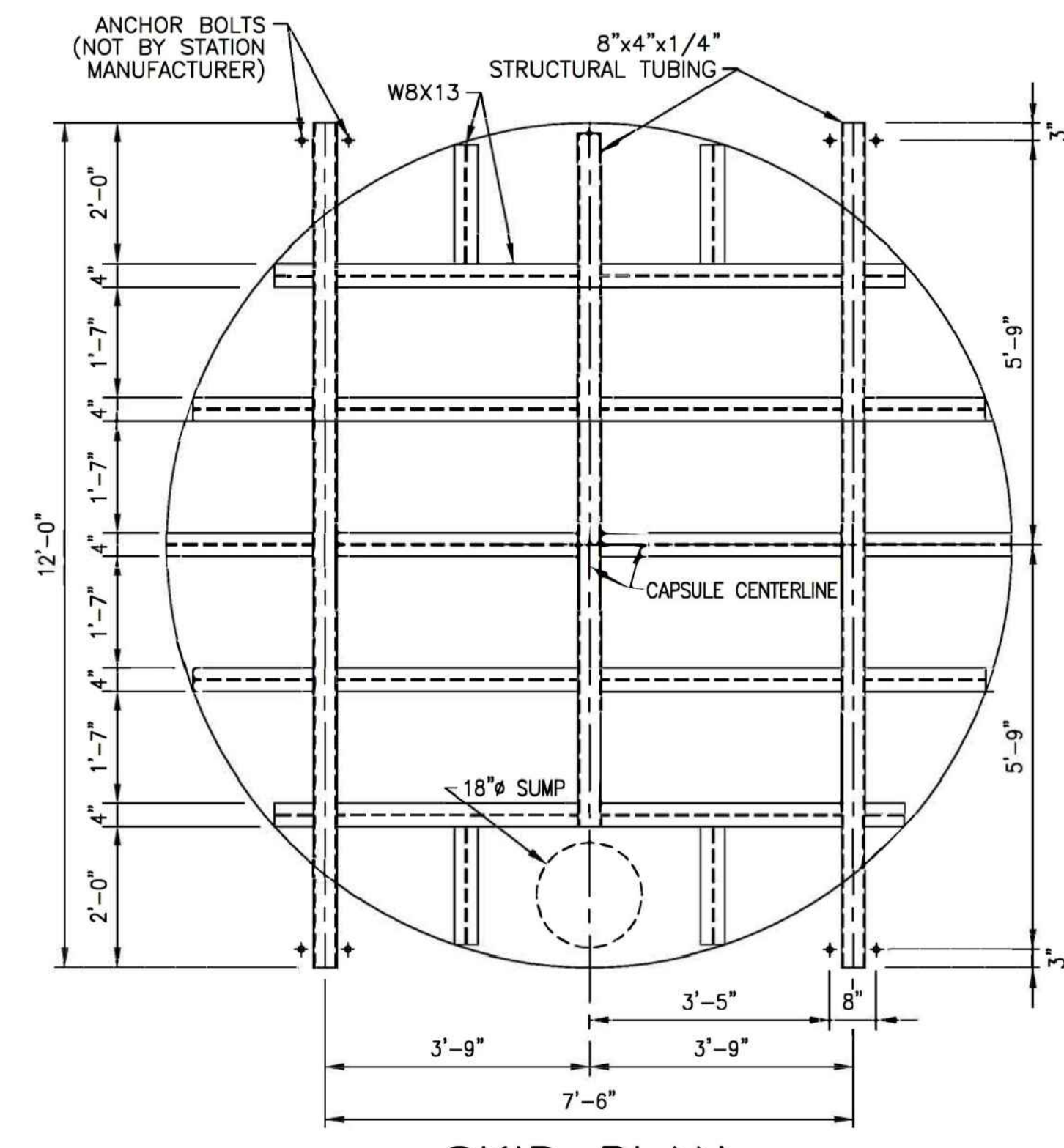
LAP JOINT CONNECTION OF CAPSULE WALL PLATE WITH FLANGE TOP AND BOTTOM



HATCH TROUGH DRAIN



INTERIOR PLAN



SKID PLAN

FOR REFERENCE ONLY

DETAILS ON THIS SHEET PROVIDED BY SDCW AND APPROVED FOR USE ON THIS PROJECT

RECORD MAPPING		INITIALS		DATE	
AS BUILT	_____	_____	_____	_____	_____
VALVE MAPS	_____	_____	_____	_____	_____
GIS (MAPPING)	_____	_____	_____	_____	_____
Inspector approved	_____	_____	_____	_____	_____
S F E C		Santa Fe Engineering Consultants, LLC 1599 St. Francis Drive, Suite B Santa Fe, NM 87505 (505) 982-2845 Fax (505) 982-2641 http://www.SFENGR.com		APPROVED	
PLAT RECORDING INFORMATION		CITY OF SANTA FE WATER DIVISION		DATE	
BOOK _____		_____		_____	
PAGE _____		_____		_____	
FILE DATE _____		_____		_____	
		SANTA FE FIRE DEPARTMENT		DATE	
		AERIAL		TOWNSHIP RANGE SECTION	
				WORK ORDER NO.	
				INSPECTOR	
				DATE: 2021	

REV DATE: 3/17/2021







**TABLE 1-R**  
HELICAL CORRUGATED STEEL PIPE - 2 1/2" X 1/2" CORRUGATION

DIAMETER OF PIPE (INCHES)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)						MIN. CVR (INCHES)
	15	16-20	21-25	26-30	31-35	36-40	
12	0.084	0.084	0.084	0.084	0.084	12	
18	0.084	0.084	0.084	0.084	0.084	12	
24	0.084	0.084	0.084	0.084	0.084	12	
30	0.084	0.084	0.084	0.084	0.084	12	
36	0.084	0.084	0.084	0.084	0.084	12	
42	0.084	0.084	0.084	0.084	0.084	12	
48	0.084	0.084	0.084	0.084	0.084	12	
54	0.079	0.079	0.079	0.079	0.079	12	
60	0.109	0.109	0.109	0.109	0.109	12	
66	0.138	0.138	0.138	0.138	0.138	12	
72	0.138	0.138	0.138	0.138	0.138	12	
78	0.168	0.168	0.168	0.168	0.168	12	
84	0.168	0.168	0.168	0.168	0.168	12	

**TABLE 2-R**  
HELICAL CORRUGATED STEEL PIPE - 3" X 1" CORRUGATION

DIAMETER OF PIPE (INCHES)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)						MIN. CVR (INCHES)
	15	16-20	21-25	26-30	31-35	36-40	
54	0.084	0.084	0.084	0.084	0.084	12	
60	0.084	0.084	0.084	0.084	0.084	12	
66	0.084	0.084	0.084	0.084	0.084	12	
72	0.084	0.084	0.084	0.084	0.084	12	
78	0.084	0.084	0.084	0.084	0.084	12	
84	0.084	0.084	0.084	0.084	0.084	12	
90	0.084	0.084	0.084	0.084	0.084	12	
96	0.079	0.079	0.079	0.079	0.079	12	
102	0.079	0.079	0.079	0.079	0.079	12	
108	0.109	0.109	0.109	0.109	0.109	12	
114	0.109	0.109	0.109	0.109	0.109	12	
120	0.109	0.109	0.109	0.109	0.109	12	
126	0.138	0.138	0.138	0.138	0.138	12	
132	0.138	0.138	0.138	0.138	0.138	12	
138	0.138	0.138	0.138	0.138	0.138	12	
144	0.168	0.168	0.168	0.168	0.168	12	

**TABLE 3-R**  
HELICAL CORRUGATED STEEL PIPE - 5" X 1" CORRUGATION

DIAMETER OF PIPE (INCHES)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)						MIN. CVR (INCHES)
	15	16-20	21-25	26-30	31-35	36-40	
54	0.084	0.084	0.084	0.084	0.084	12	
60	0.084	0.084	0.084	0.084	0.084	12	
66	0.084	0.084	0.084	0.084	0.084	12	
72	0.084	0.084	0.084	0.084	0.084	12	
78	0.084	0.084	0.084	0.084	0.084	12	
84	0.084	0.084	0.084	0.084	0.084	12	
90	0.084	0.084	0.084	0.084	0.084	12	
96	0.079	0.079	0.079	0.079	0.079	12	
102	0.079	0.079	0.079	0.079	0.079	12	
108	0.109	0.109	0.109	0.109	0.109	12	
114	0.109	0.109	0.109	0.109	0.109	12	
120	0.109	0.109	0.109	0.109	0.109	12	
126	0.138	0.138	0.138	0.138	0.138	12	
132	0.138	0.138	0.138	0.138	0.138	12	
138	0.138	0.138	0.138	0.138	0.138	12	
144	0.168	0.168	0.168	0.168	0.168	12	

**TABLE 4-R**  
STEEL SPIRAL RIB PIPE - 3/4" X 3/4" X 7 1/2" CORRUGATION

DIAMETER OF PIPE (INCHES)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)				MIN. CVR (INCHES)
	0.084	0.079	0.109	0.138	
24	67	95	158	12	
30	54	75	126	12	
36	45	63	106	12	
42	38	54	90	12	
48	33	47	78	12	
54	29	41	70	15	
60	37	63	91	15	
66	34	57	83	18	
72		52	76	18	
78		48	70	21	
84		44	65	21	
90		50	74	24	
96			86	24	
102			95	27	

**TABLE 5-R**  
STEEL SPIRAL RIB PIPE - 3/4" X 1" X 11 1/2" CORRUGATION

DIAMETER OF PIPE (INCHES)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)				MIN. CVR (INCHES)
	0.084	0.079	0.109	0.138	
30	36	40	40	12	
36	32	40	40	12	
42	28	39	40	12	
48	24	34	40	12	
54	21	30	40	18	
60		27	40	18	
66		25	40	18	
72		22	38	18	
78			35	24	
84			33	24	
90			31	24	

**TABLE 6-R**  
STRUCTURAL PLATE PIPE - 6" X 2" CORRUGATION

DIAMETER OF PIPE (FEET)	MAX. DEPTH OF COVER ABOVE TOP OF PIPE (FEET)						MIN. CVR (INCHES)
	15	16-20	21-25	26-30	31-35	36-40	
5.0	0.111	0.111	0.111	0.111	0.111	12	
5.5	0.111	0.111	0.111	0.111	0.111	12	
6.0	0.111	0.111	0.111	0.111	0.111	12	
6.5	0.111	0.111	0.111	0.111	0.111	12	
7.0	0.111	0.111	0.111	0.111	0.111	12	
7.5	0.111	0.111	0.111	0.111	0.111	12	
8.0	0.111	0.111	0.111	0.111	0.111	12	
8.5	0.111	0.111	0.111	0.111	0.111	12	
9.0	0.111	0.111	0.111	0.111	0.111	12	
9.5	0.111	0.111	0.111	0.111	0.111	12	
10.0	0.111	0.111	0.111	0.111	0.111	12	
10.5	0.111	0.111	0.111	0.111	0.111	12	
11.0	0.111	0.111	0.111	0.111	0.111	12	
11.5	0.111	0.111	0.111	0.111	0.111	12	
12.0	0.111	0.111	0.111	0.111	0.111	12	
12.5	0.111	0.111	0.111	0.111	0.111	12	
13.0	0.111	0.111	0.111	0.111	0.111	12	
13.5	0.111	0.111	0.111	0.111	0.111	12	
14.0	0.111	0.111	0.111	0.111	0.111	12	
14.5	0.111	0.111	0.111	0.111	0.111	12	
15.0	0.111	0.111	0.111	0.111	0.111	12	
15.5	0.111	0.111	0.111	0.111	0.111	12	
16.0	0.111	0.111	0.111	0.111	0.111	12	
16.5	0.140	0.140	0.140	0.140	0.140	12	
17.0	0.140	0.140	0.140	0.140	0.140	12	
17.5	0.140	0.140	0.140	0.140	0.140	12	
18.0	0.140	0.140	0.140	0.140	0.140	12	
18.5	0.170	0.170	0.170	0.170	0.170	12	
19.0	0.170	0.170	0.170	0.170	0.170	12	
19.5	0.170	0.170	0.170	0.170	0.170	12	
20.0	0.170	0.170	0.170	0.170	0.170	12	
20.5	0.188	0.188	0.188	0.188	0.188	12	
21.0	0.188	0.188	0.188	0.188	0.188	12	
21.5	0.218	0.218	0.218	0.218	0.218	12	
22.0	0.218	0.218	0.218	0.218	0.218	12	
22.5	0.218	0.218	0.218	0.218	0.218	12	
23.0	0.248	0.248	0.248	0.248	0.248	12	
23.5	0.248	0.248	0.248	0.248	0.248	12	
24.0	0.248	0.248	0.248	0.248	0.248	12	
24.5	0.280	0.280	0.280	0.280	0.280	12	
25.0	0.280	0.280	0.280	0.280	0.280	12	
25.5	0.280	0.280	0.280	0.280	0.280	12	
26.0	0.280	0.280	0.280	0.280	0.280	12	

**TABLE 7-R**  
DESIGN DATA

GAUGE THICKNESS (INCHES)

1	0.280
3	0.249
5	0.218
7	0.188
9	0.168
10	0.138
12	0.109
14	0.079
16	0.064
18	0.052

NOTE: GAUGES SHOWN ARE "US STANDARD GAUGE" FOR UNCOATED STEEL SHEETS AND PLATES. THICKNESS SHOWN IN INCHES INCLUDE GALVANIZED COATING.

R = ROUND PIPE

DESIGN DATA:

SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12, 2007 EDITION, WITH 2008 INTERIM REVISIONS.

DEAD LOAD: 120 POUNDS PER CUBIC FOOT EARTH.

LIVE LOAD: HL-93

SAFETY FACTORS: APPROXIMATELY 3.0 FOR LONGITUDINAL BEAM STRENGTH 2.0 FOR PIPE WALL BUCKLING.

SOIL STIFFNESS COEFFICIENT (K) = 0.22.

BACKFILL: SOIL STIFFNESS COEFFICIENT (K) = 0.22.

**TABLE 8-R**  
DESIGN DATA

DESIGN DATA:

SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12, 2007 EDITION, WITH 2008 INTERIM REVISIONS.

DEAD LOAD: 120 POUNDS PER CUBIC FOOT EARTH.

LIVE LOAD: HL-93

SAFETY FACTORS: APPROXIMATELY 3.0 FOR LONGITUDINAL BEAM STRENGTH 2.0 FOR PIPE WALL BUCKLING.

SOIL STIFFNESS COEFFICIENT (K) = 0.22.

BACKFILL: SOIL STIFFNESS COEFFICIENT (K) = 0.22.

**TABLE 9-R**  
DESIGN DATA

DESIGN DATA:

SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12, 2007 EDITION, WITH 2008 INTERIM REVISIONS.

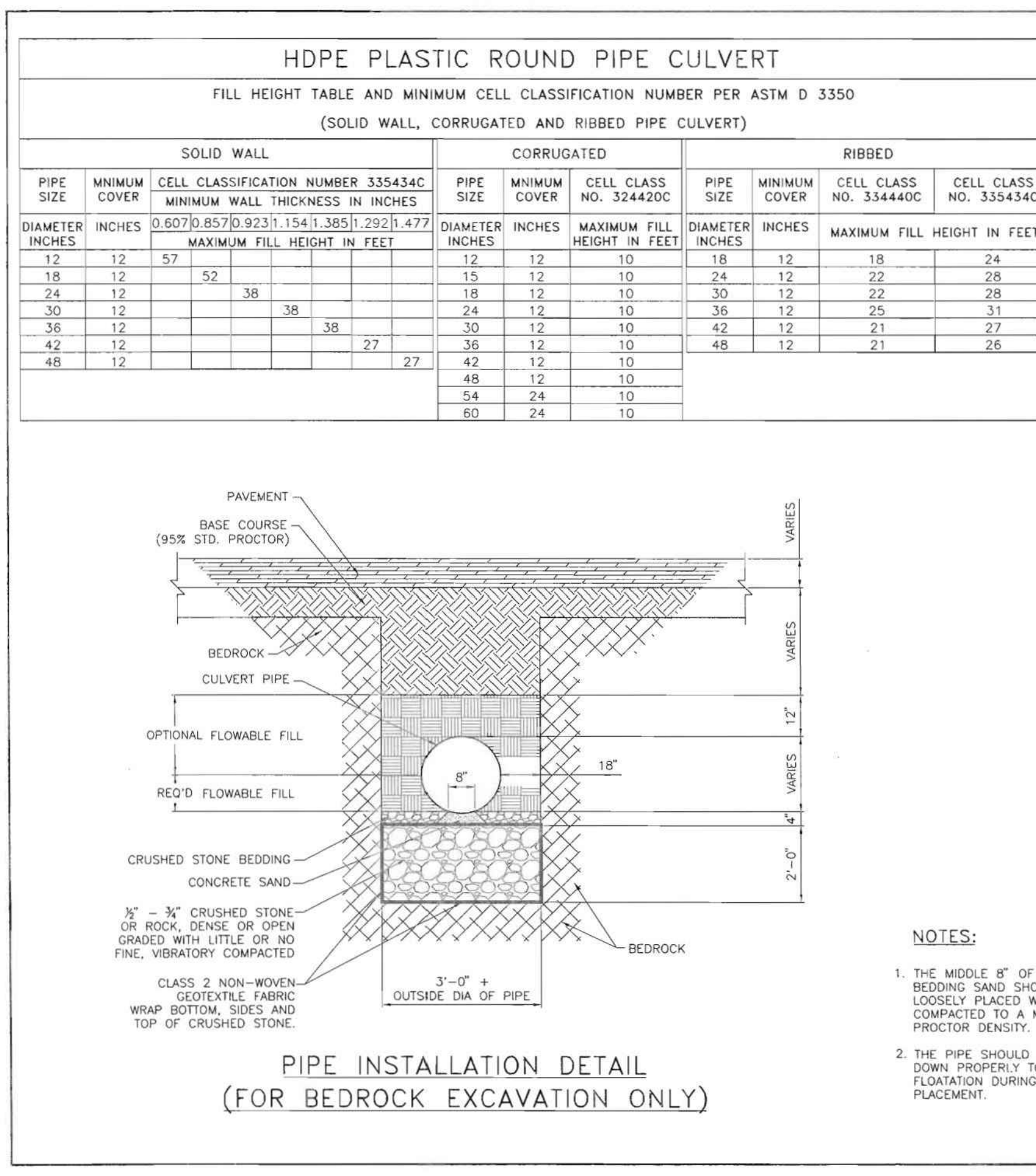
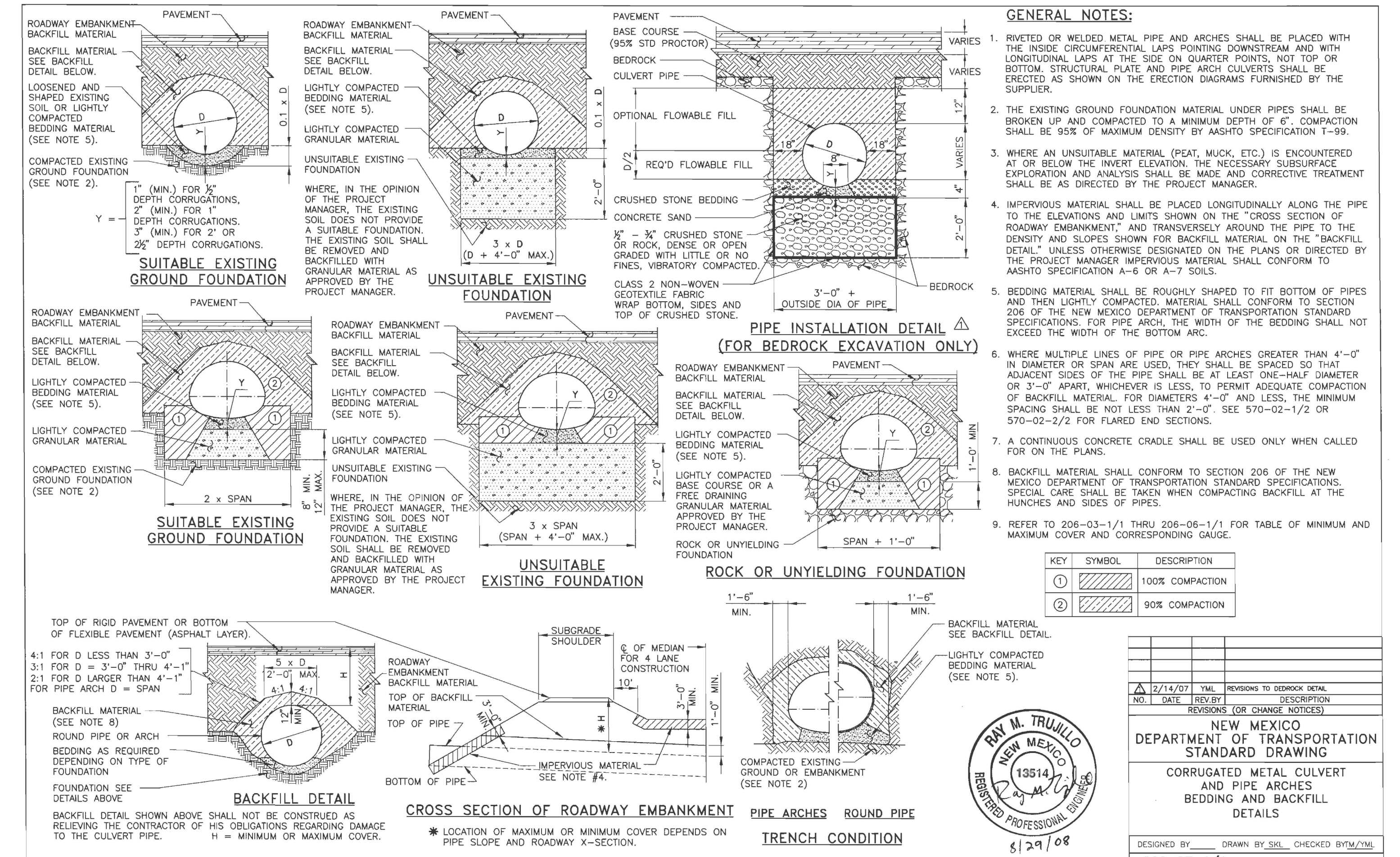
DEAD LOAD: 120 POUNDS PER CUBIC FOOT EARTH.

LIVE LOAD: HL-93

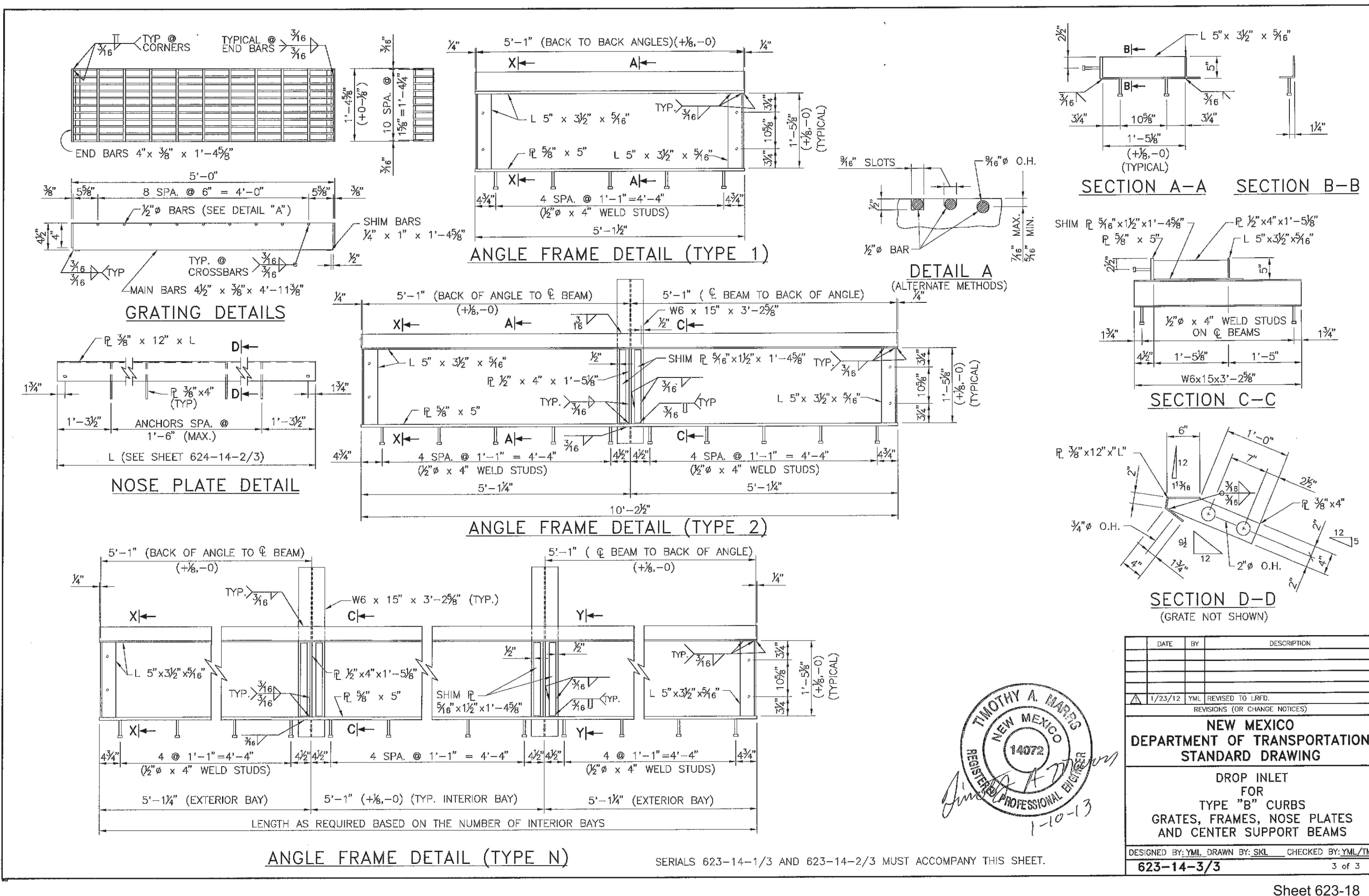
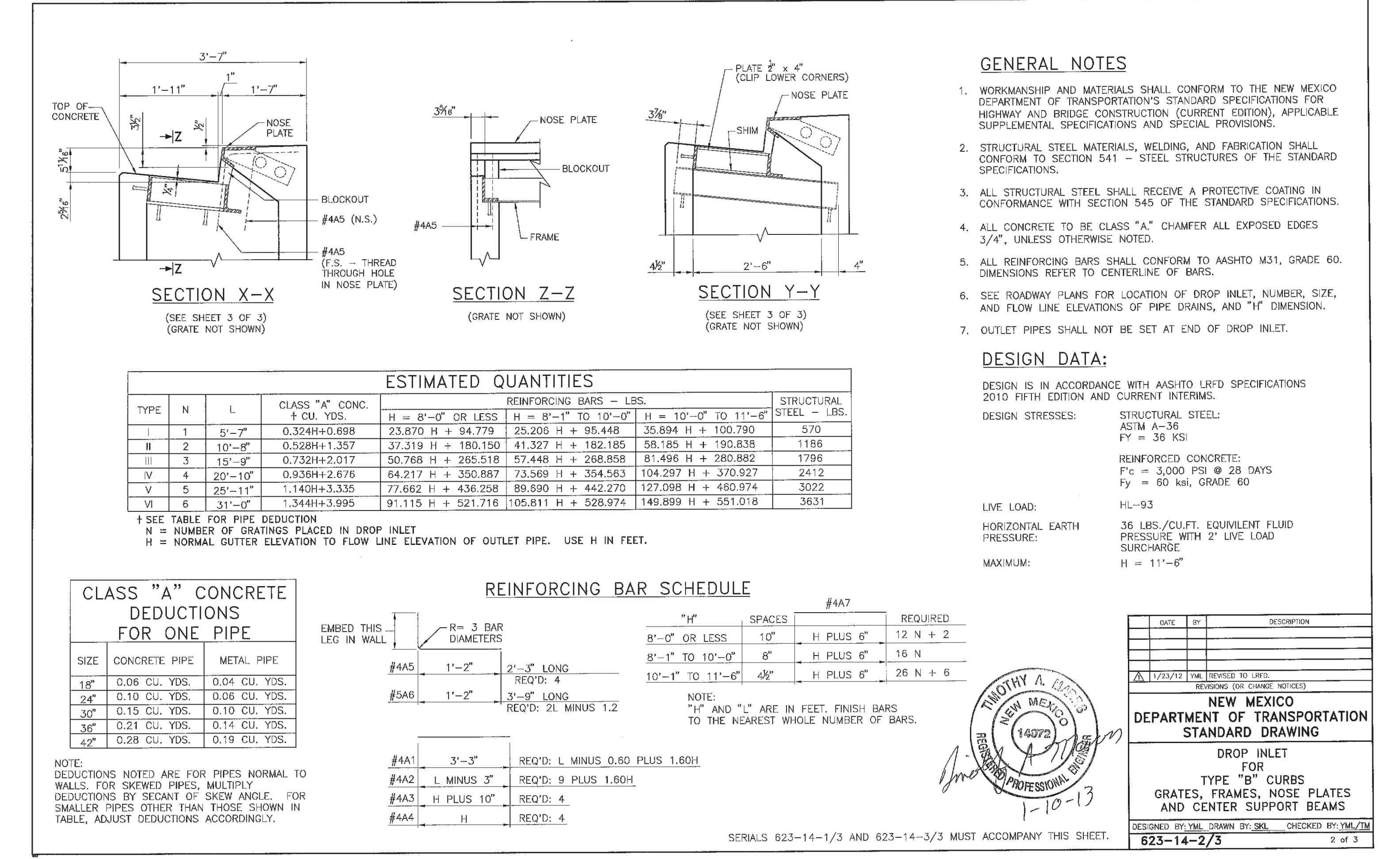
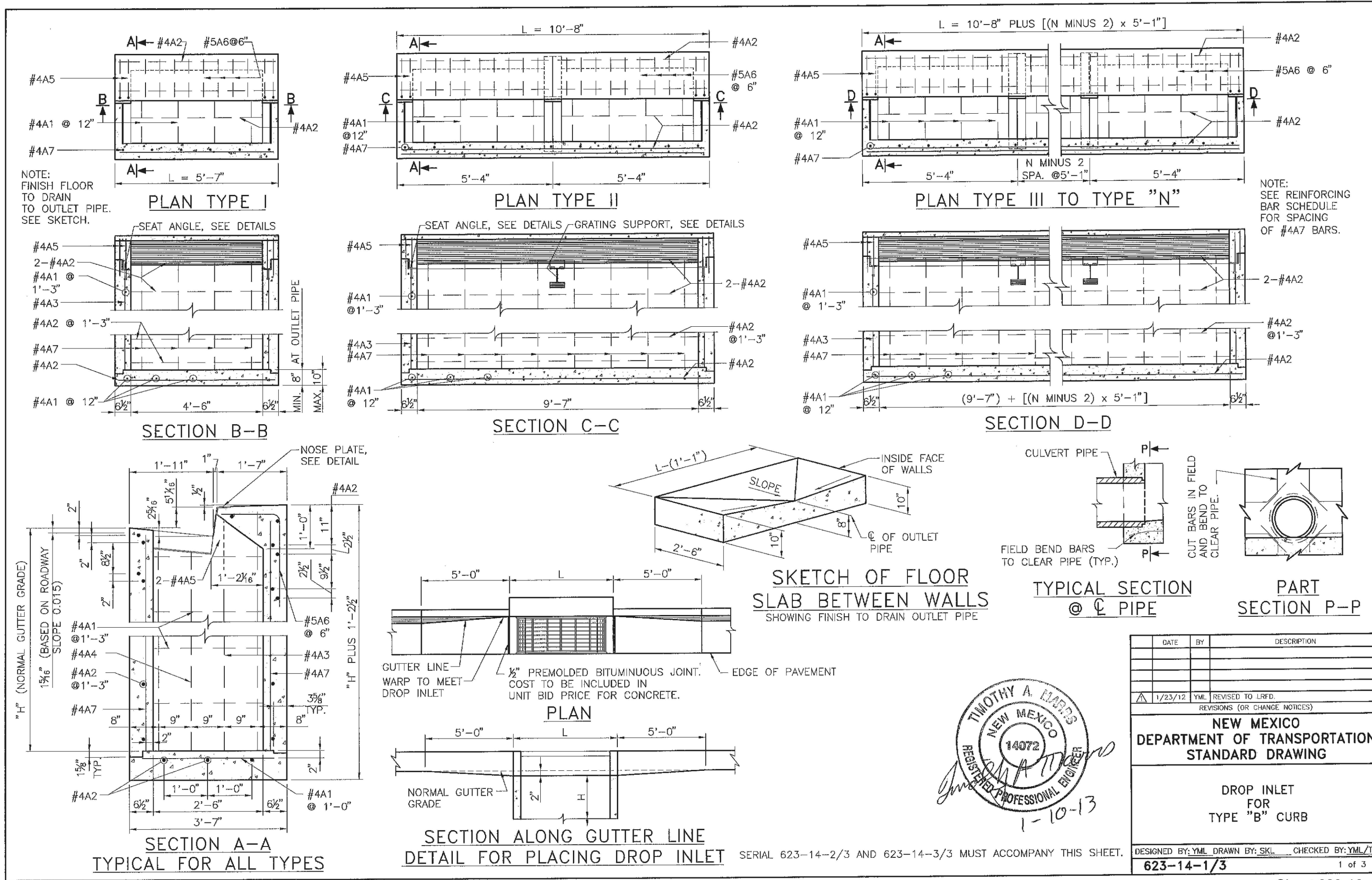
SAFETY FACTORS: APPROXIMATELY 3.0 FOR LONGITUDINAL BEAM STRENGTH 2.0 FOR PIPE WALL BUCKLING.

SOIL STIFFNESS COEFFICIENT (K) = 0.22.

BACKFILL: SOIL STIFFNESS COEFFICIENT (K) = 0.22.









SUMMARY FILENAME

GENERAL NOTES:

1. MMDOT IS RECOGNIZED AS A TITLE II PUBLIC ENTITY UNDER THE AMERICANS WITH DISABILITIES ACT (ADA), OF 1990 (PUBLIC LAW 101-336). A TITLE II ENTITY IS DEFINED AS ANY STATE OR LOCAL GOVERNMENT ENTITY AND PROHIBITS DISCRIMINATION ON THE BASIS OF DISABILITY. THE ADA EXTENDS THE PRINCIPLES OF SECTION 504 OF THE REHABILITATION ACT OF 1973, AS AMENDED, TO PROTECT PERSONS WITH DISABILITIES IN ALL PUBLIC FACILITIES AND PROGRAMS RESPECTIVE OF THE FUNDING SOURCE.
2. THESE DRAWINGS PROVIDE GUIDANCE FOR COMPLIANCE WITH THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), JULY 26, 2011, OR LATEST EDITION. THESE GUIDELINES SHALL APPLY TO ALL NEW AND ALTERED PEDESTRIAN ACCESS ROUTES (PAR).
3. REFER TO CONSTRUCTION PLANS FOR THE DETAILED LAYOUTS AND DETAILS.
4. PEDESTRIAN ACCESS ROUTES (PAR) SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PROVIDE SLIP RESISTANT TEXTURE ON SIDEWALKS AND CURB RAMPS BY BROODING TRANSVERSE TO THE SLOPE OF THE RAMP AND/OR PERPENDICULAR TO PEDESTRIAN TRAVEL. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING SIDE FLARES. DO NOT SCORE OR MAKE GROOVES IN SLOPED SURFACE. LINES SHOWN ON STANDARD DETAILS ARE FOR ILLUSTRATION ONLY.
5. VERTICAL SURFACE DISCONTINUITIES SHALL BE 0.5 INCHES MAXIMUM VERTICAL DISCONTINUITIES BETWEEN 0.25 INCHES AND 0.5 INCHES SHALL BE BEVELLED WITH A SLOPE NOT STEEPER THAN 50 PERCENT. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE VERTICAL SURFACE DISCONTINUITY. HORIZONTAL OPENINGS IN GRATES AND JOINTS SHALL NOT PERMIT PASSAGE OF A SPHERE MORE THAN 0.5 INCHES IN DIAMETER. ELONGATED OPENINGS IN GRATES SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
6. PROVIDE EXPANSION JOINT MATERIAL 0.5 INCHES THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
7. SEAL ALL JOINTS WITH AN APPROVED SEALING MATERIAL.
8. INSTALL JOINTS WHERE CURB RAMPS, TURNING SPACES, FLARES, AND SIDEWALKS ABUT. ALL JOINTS AND TRANSITIONS SHALL BE FLUSH.
9. VERTICAL WALLS OR HEADER CURBS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR ELEVATION DIFFERENCES CANNOT BE ACCOMMODATED BY CURB RAMP FLARES OR GRADING. GRADE NON-WALK AREAS AT 3:1 OR FLATTER.
10. CONSTRUCTION TOP (BOTTOM OF CURB) TO BE FLUSH WITH ADJACENT SURFACES (CURB RAMPS, SIDEWALKS, AND FLARES). VERTICAL LIPS NOT PERMITTED AT THE BOTTOM OF CURB RAMP WHERE THE RAMP MEETS STREET LEVEL.

SIDEWALKS

12. SIDEWALK AND CURB AND GUTTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SERIAL 609-01-1/1.
13. SIDEWALK CROSS SLOPE IS RECOMMENDED TO BE CONSTRUCTED FOR CROSS SLOPE OF 1:5% TYPICAL, BUT SHALL NOT EXCEED 2.0% CROSS SLOPE ON THE PEDESTRIAN ACCESS ROUTE (PAR).
14. SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 5.0 FT, EXCLUSIVE OF THE WIDTH OF THE CURB RETURN. EXCEPTION: WHERE SIDEWALK WIDTH NEEDS TO BE REDUCED TO NO LESS THAN 4.0 FT, PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200 FT MAXIMUM. PASSING SPACES SHALL BE 5.0 FT MINIMUM BY 5.0 FT MINIMUM.
15. ANY SIGNS POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNALS, STREET FURNITURE, AND OTHER OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH TO LESS THAN 4.0 FT.
16. THE CLEAR WIDTH OF PEDESTRIAN ACCESS ROUTES (PAR) WITHIN MEDIANS AND PEDESTRIAN REFUGE ISLANDS SHALL BE 5.0 FT MINIMUM.

CURB RAMPS

17. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE FEASIBLE. THE MAXIMUM SLOPE ALLOWABLE IS INDICATED IN NOTE 16 OF THE CURB RAMP STANDARD DETAILS. SLOPES THAT EXCEED THOSE INDICATED IN THE CURB RAMP STANDARD DETAILS OR CONSTRUCTION PLANS, WILL NOT BE ACCEPTED AND WILL BE REMOVED AND RECONSTRUCTED.
18. RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3% MAX (RECOMMENDED 7.0%) BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FT TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAX LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS MAXIMUM EXTENT PRACTICABLE.
19. CONSTRUCT THE CLEAR WIDTH OF CURB RAMPS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES AS TYPICAL, 5.0 FT X 5.0 FT AND MINIMUM 4.0 FT X 4.0 FT CLEAR SPACE BEYOND THE CURB FACE, WITHIN THE WIDTH OF THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.
20. CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE.
21. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.3%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP RUNS, TURNING SPACE OR BLENDED TRANSITION IS NOT TO EXCEED 5.0%.
22. CONSTRUCT CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL TURNING SPACES BEHIND CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE.
23. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE CURB RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF CURB RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
24. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF CURB RAMP IS NOT SOLELY DEPENDENT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 6" CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 6.0 FT FOR AN 8.3% SLOPE).

CROSSWALKS

25. PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED CROSSWALK. CURB RAMP LOCATIONS SHALL BE PLACED WITHIN THE WIDTH OF THE MARKED OR UNMARKED CROSSWALKS AS SHOWN IN THE CONSTRUCTION PLANS.

DETECTABLE WARNING

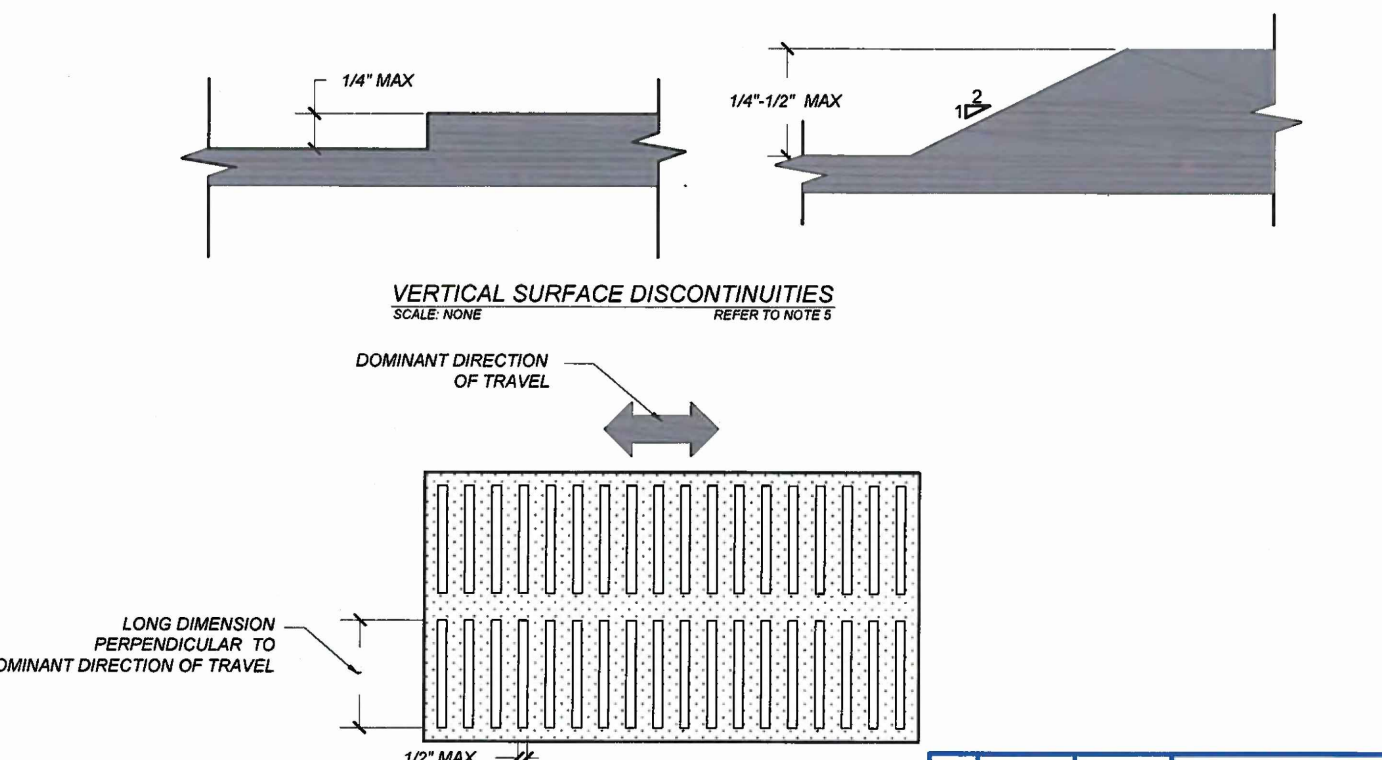
26. DETECTABLE WARNING SURFACES (DWS) CONSISTING OF TRUNCATED DOMES SHALL BE UTILIZED WHERE CURB RAMPS, BLENDED TRANSITIONS, OR TURNING SPACE PROVIDE A FLUSH PEDESTRIAN CONNECTION TO THE STREET OR WHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CROSSES A STREET, ALLEY, TRAFFIC ISLAND, MEDIAN, OR DETECTABLE WARNING SURFACES (DWS) WILL NOT BE INSTALLED AT RESIDENTIAL DRIVEWAYS.
27. DETAILS OF DETECTABLE WARNING SURFACE ARE SHOWN IN CONTRACT PLANS AND SHEET 608-001-8/12 OF THE STANDARD DRAWINGS.

ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND PEDESTRIAN PUSHBUTTONS

28. FOR ALTERATION PROJECTS, PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT PRACTICABLE. INSTALL PEDESTRIAN STOP Poles, WHERE APPLICABLE, SO AS NOT TO CREATE PEDESTRIAN OBSTRUCTIONS. REFER TO THE MUTCD FOR FURTHER GUIDANCE.
29. PEDESTRIAN SIGNAL PUSH BUTTONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LOCATED WITHIN A HORIZONTAL REACH OF 0' TO 10' AND SHALL BE WITHIN 36" TO 48" ABOVE THE SIDEWALK SURFACE.
30. PEDESTRIAN SIGNAL SHALL HAVE 4" MIN TURNING SPACE TO PROVIDE ACCESS TO PUSH BUTTONS.

ALTERATIONS TO EXISTING FACILITIES - GENERAL NOTES:

- ADDITIONS OR ALTERATIONS TO ANY FACILITY SHALL CONFORM TO THE REQUIREMENTS OF THE NEW CONSTRUCTION STANDARDS WITHIN THE MMDOT PEDESTRIAN ACCESS STANDARDS AND PROWAG 2011 OR LATEST EDITION. ANY DESIGN / CONSTRUCTION DEVIATION THAT IS DEEMED AN VARIANCE OR TECHNICALLY INFEASIBLE BY THE DEFINITION BELOW SHALL REQUIRE SUBMITTAL AND APPROVAL OF ADA DESIGN VARIANCE PROCEDURES.
- EXCEPTION: IN ALTERATION WORK, IF COMPLIANCE IS TECHNICALLY INFEASIBLE, THE ALTERATION SHALL PROVIDE ACCESSIBILITY TO THE MAXIMUM EXTENT PRACTICABLE. ANY ELEMENTS OR FEATURES OF THE BUILDING OR FACILITY THAT IS BEING ALTERED AND CAN BE MADE ACCESSIBLE SHALL BE MADE ACCESSIBLE WITHIN THE SCOPE OF THE ALTERATION.
- TECHNICAL INFEASIBILITY: MEANS, WITH RESPECT TO AN ALTERATION OF A BUILDING OR A FACILITY, THAT IT HAS LITTLE LIKELIHOOD OF BEING ACCOMPLISHED BECAUSE EXISTING STRUCTURAL CONDITIONS WOULD REQUIRE REMOVING OR ALTERING A LOAD-BEARING MEMBER WHICH IS AN ESSENTIAL PART OF THE STRUCTURAL FRAME, OR BECAUSE OTHER EXISTING PHYSICAL OR SITE CONSTRAINTS PROHIBIT.
- IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT COMPLIANCE TO PROVIDE A CURB RAMP FOR EACH PEDESTRIAN CROSSING A SINGLE DIAGONAL CURB RAMP SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.



HORIZONTAL OPENINGS REFER TO NOTE 1

NO.	DATE	REV. BY	DESCRIPTION

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

PEDESTRIAN ACCESS ROUTE GENERAL NOTES

APPROVED: *[Signature]* DATE: 1-13-15

608-001-1 608-1 of 12

SUMMARY FILENAME

KEYED NOTES

1. TURNING SPACE SHALL HAVE MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0% (RECOMMEND 1.5%). TURNING SPACE SHALL BE 4.0 FT BY 4.0 FT MIN (RECOMMEND 5.0 FT BY 5.0 FT) AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4.0 FT MIN BY 5.0 FT MIN. THE 5.0 FT SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
2. CROSS SLOPE SHALL BE 2.0% MAX (RECOMMENDED 1.5%), EXCEPTION: THE CROSS SLOPE OF CURB RAMPS AT PEDESTRIAN STREET CROSSING WITHOUT YIELD OR STOP CONTROL, TRAFFIC SIGNALS DESIGNED FOR THE GREEN PHASE, AND AT MIDBLOCK PEDESTRIAN STREET CROSSING, THE CROSS SLOPE IS PERMITTED TO MATCH STREET OR HIGHWAY GRADE.
3. RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3% MAX (RECOMMENDED 7.0%) BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FT TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAX LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS MAXIMUM EXTENT PRACTICABLE.
4. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
5. COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, RUN OR TURNING SPACE SHALL BE 5% MAX.
6. FLARED SIDES ARE TO HAVE A SLOPE OF 10% MAX (RECOMMEND 5%), MEASURED PARALLEL TO THE BACK OF THE CURB, UNLESS THE FLARED SIDES ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, CHAINS, FENCING, OR RAILINGS.

NOTES:

- A. DO NOT SCORE OR MAKE GROOVES IN SLOPED SURFACE LINES SHOWN ON STANDARD DETAILS ARE FOR ILLUSTRATION ONLY.
- B. DETAILS OF THE DETECTABLE WARNING SURFACE ARE SHOWN IN THE CONSTRUCTION PLANS AND SHEET 608-001-8/12 OF THE STANDARD DRAWINGS.
- C. IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT COMPLIANCE TO PROVIDE A CURB RAMP FOR EACH PEDESTRIAN CROSSING A SINGLE DIAGONAL CURB RAMP SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- D. CONCRETE HEADER CURBS CONSTRUCTED AS PART OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO ITEM NUMBER 608004 AND NO SEPARATE PAYMENT WILL BE MADE.

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

PERPENDICULAR CURB RAMPS

APPROVED: *[Signature]* DATE: 1-13-15

608-001-2 608-2 of 12

SUMMARY FILENAME

KEYED NOTES

1. TURNING SPACE SHALL HAVE MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0% (RECOMMEND 1.5%). TURNING SPACE SHALL BE 4.0 FT BY 4.0 FT MIN (RECOMMEND 5.0 FT BY 5.0 FT) AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4.0 FT MIN BY 5.0 FT MIN. THE 5.0 FT SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
2. CROSS SLOPE OF CURB RAMPS AT PEDESTRIAN STREET CROSSING WITHOUT YIELD OR STOP CONTROL, TRAFFIC SIGNALS DESIGNED FOR THE GREEN PHASE, AND AT MIDBLOCK PEDESTRIAN STREET CROSSING, THE CROSS SLOPE IS PERMITTED TO MATCH STREET OR HIGHWAY GRADE.
3. RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3% MAX (RECOMMENDED 7.0%) BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FT TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAX LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS MAXIMUM EXTENT PRACTICABLE.
4. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
5. COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, RUN OR TURNING SPACE SHALL BE 5% MAX.
6. FLARED SIDES ARE TO HAVE A SLOPE OF 10% MAX (RECOMMEND 5%), MEASURED PARALLEL TO THE BACK OF THE CURB, UNLESS THE FLARED SIDES ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, CHAINS, FENCING, OR RAILINGS.

NOTES:

- A. DO NOT SCORE OR MAKE GROOVES IN SLOPED SURFACE LINES SHOWN ON STANDARD DETAILS ARE FOR ILLUSTRATION ONLY.
- B. DETAILS OF THE DETECTABLE WARNING SURFACE ARE SHOWN IN THE CONSTRUCTION PLANS AND SHEET 608-001-8/12 OF THE STANDARD DRAWINGS.
- C. IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT COMPLIANCE TO PROVIDE A CURB RAMP FOR EACH PEDESTRIAN CROSSING A SINGLE DIAGONAL CURB RAMP SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- D. CONCRETE HEADER CURBS CONSTRUCTED AS PART OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO ITEM NUMBER 608004 AND NO SEPARATE PAYMENT WILL BE MADE.

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

PARALLEL CURB RAMPS

APPROVED: *[Signature]* DATE: 1-13-15

608-001-3 608-3 of 12

SUMMARY FILENAME

KEYED NOTES

1. TURNING SPACE SHALL HAVE MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0% (RECOMMEND 1.5%). TURNING SPACE SHALL BE 4.0 FT BY 4.0 FT MIN (RECOMMEND 5.0 FT BY 5.0 FT) AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4.0 FT MIN BY 5.0 FT MIN. THE 5.0 FT SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
2. CROSS SLOPE SHALL BE 2.0% MAX (RECOMMENDED 1.5%), EXCEPTION: THE CROSS SLOPE OF CURB RAMPS AT PEDESTRIAN STREET CROSSING WITHOUT YIELD OR STOP CONTROL, TRAFFIC SIGNALS DESIGNED FOR THE GREEN PHASE, AND AT MIDBLOCK PEDESTRIAN STREET CROSSING, THE CROSS SLOPE IS PERMITTED TO MATCH STREET OR HIGHWAY GRADE.
3. RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3% MAX (RECOMMENDED 7.0%) BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FT TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAX LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS MAXIMUM EXTENT PRACTICABLE.
4. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RAMP. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
5. COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, RUN OR TURNING SPACE SHALL BE 5% MAX.
6. FLARED SIDES ARE TO HAVE A SLOPE OF 10% MAX (RECOMMEND 5%), MEASURED PARALLEL TO THE BACK OF THE CURB, UNLESS THE FLARED SIDES ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, CHAINS, FENCING, OR RAILINGS.

NOTES:

- A. DO NOT SCORE OR MAKE GROOVES IN SLOPED SURFACE LINES SHOWN ON STANDARD DETAILS ARE FOR ILLUSTRATION ONLY.
- B. DETAILS OF THE DETECTABLE WARNING SURFACE ARE SHOWN IN THE CONSTRUCTION PLANS AND SHEET 608-001-8/12 OF THE STANDARD DRAWINGS.
- C. IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT COMPLIANCE TO PROVIDE A CURB RAMP FOR EACH PEDESTRIAN CROSSING A SINGLE DIAGONAL CURB RAMP SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- D. CONCRETE HEADER CURBS CONSTRUCTED AS PART OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO ITEM NUMBER 608004 AND NO SEPARATE PAYMENT WILL BE MADE.

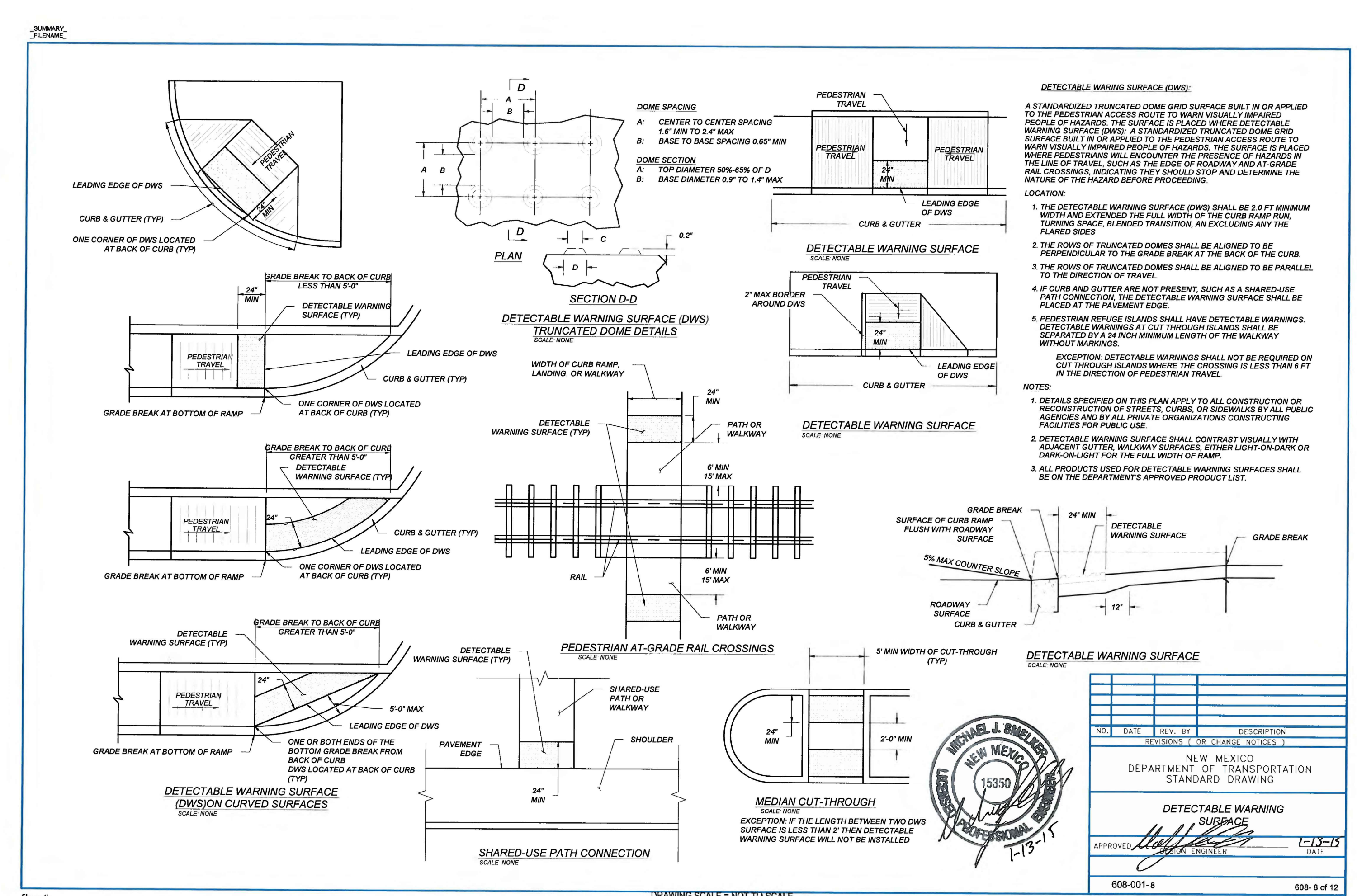
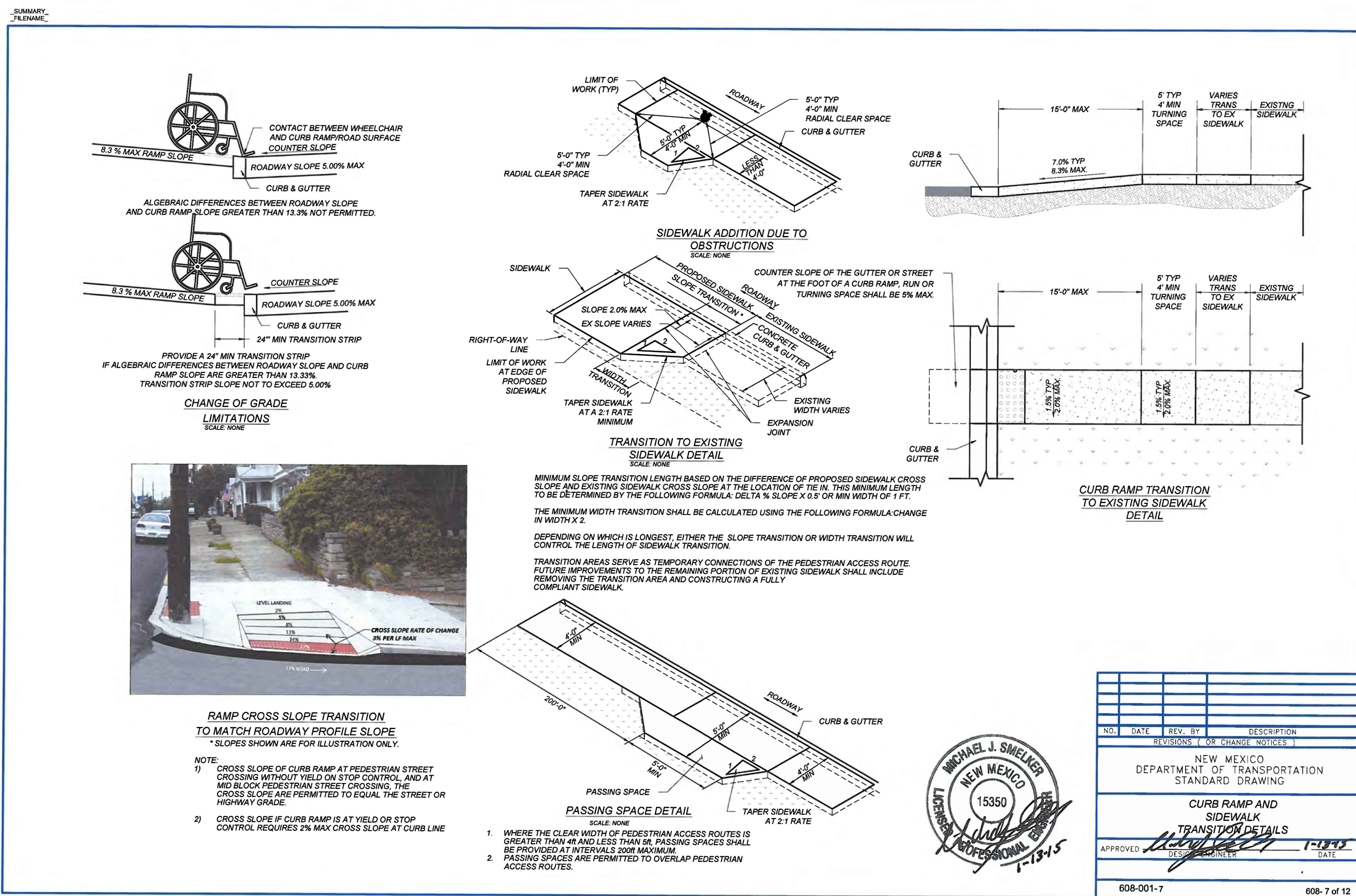
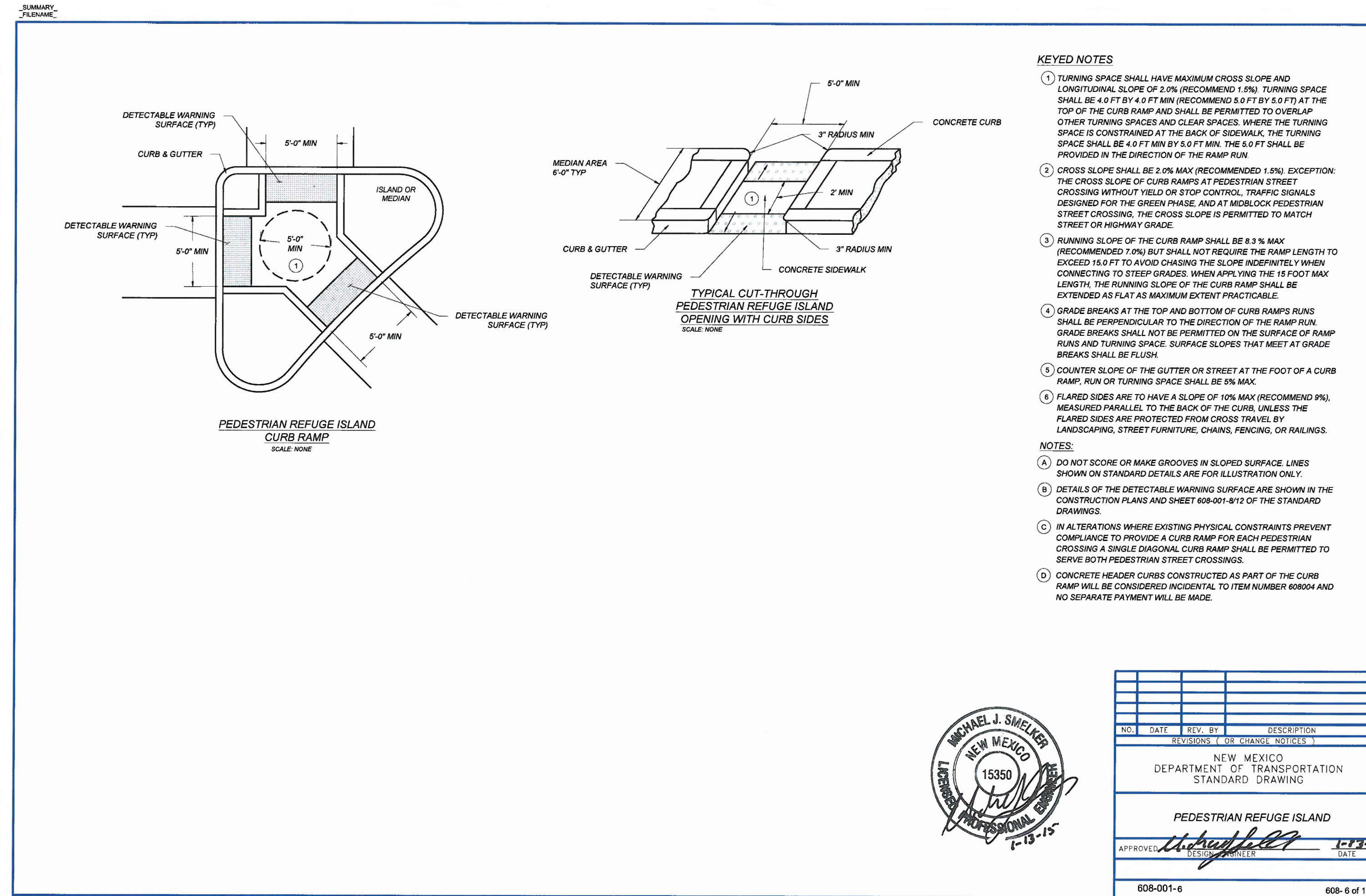
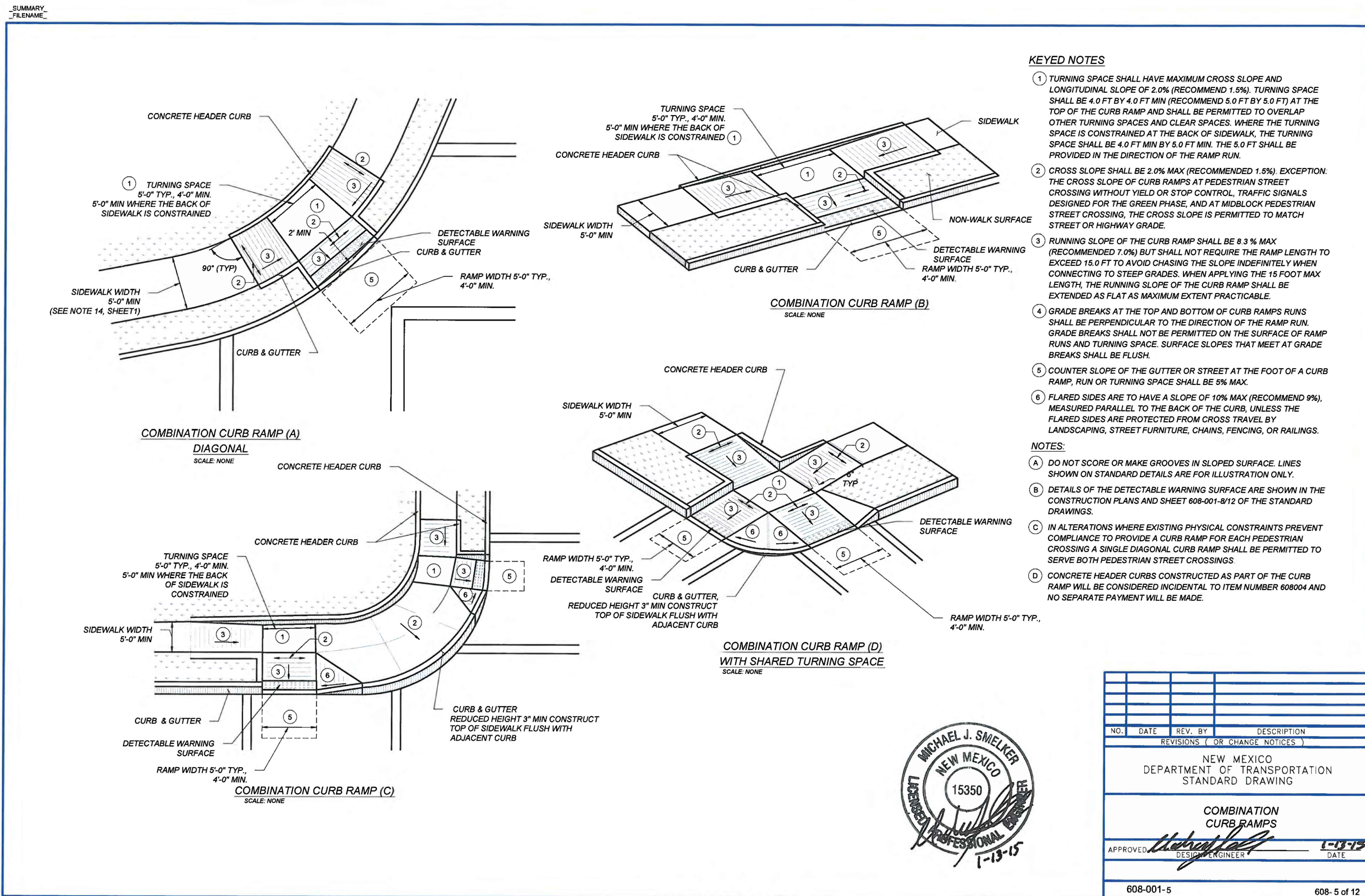
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

SINGLE DIAGONAL PARALLEL CURB RAMPS

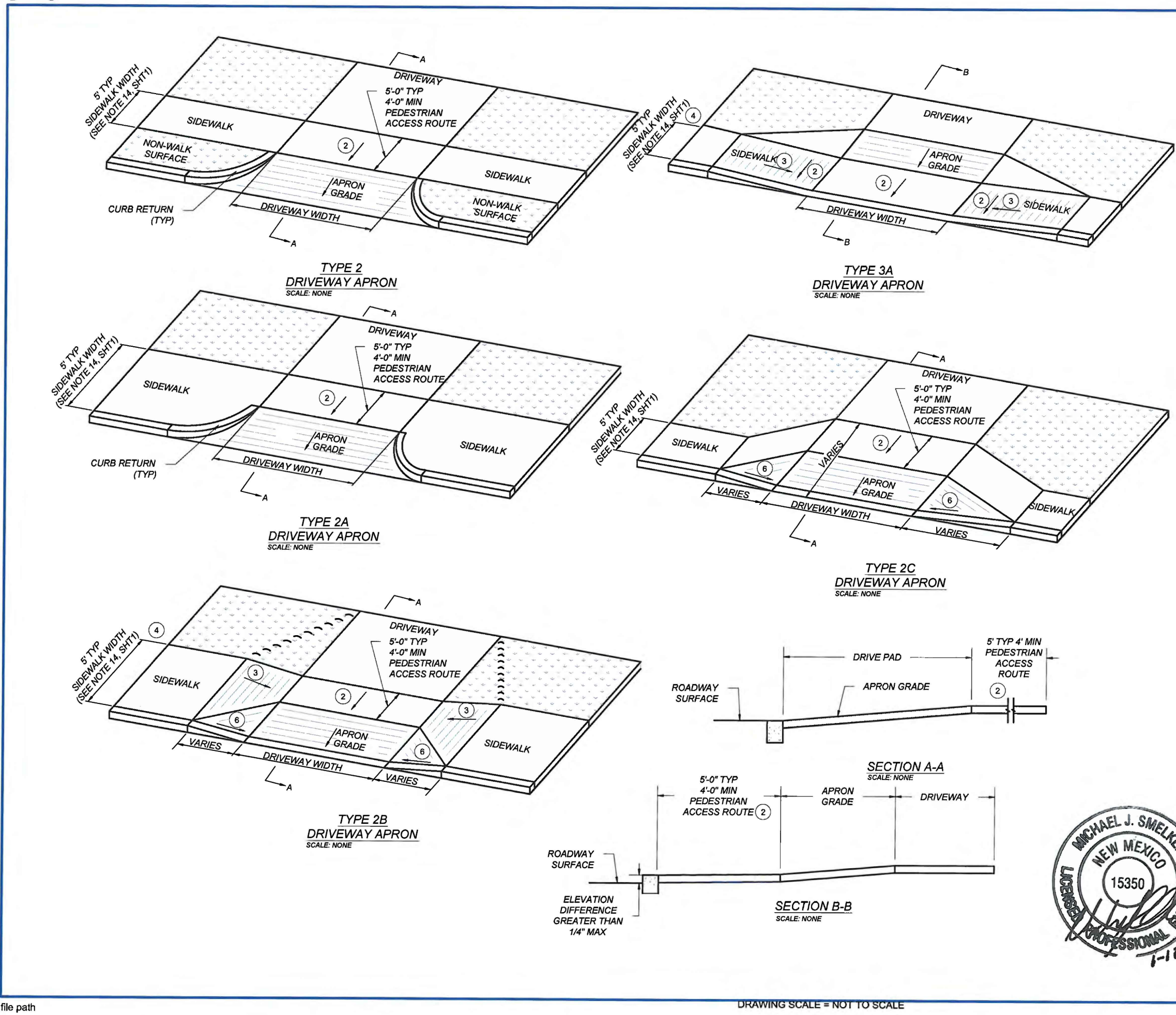
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**KEYED NOTES**

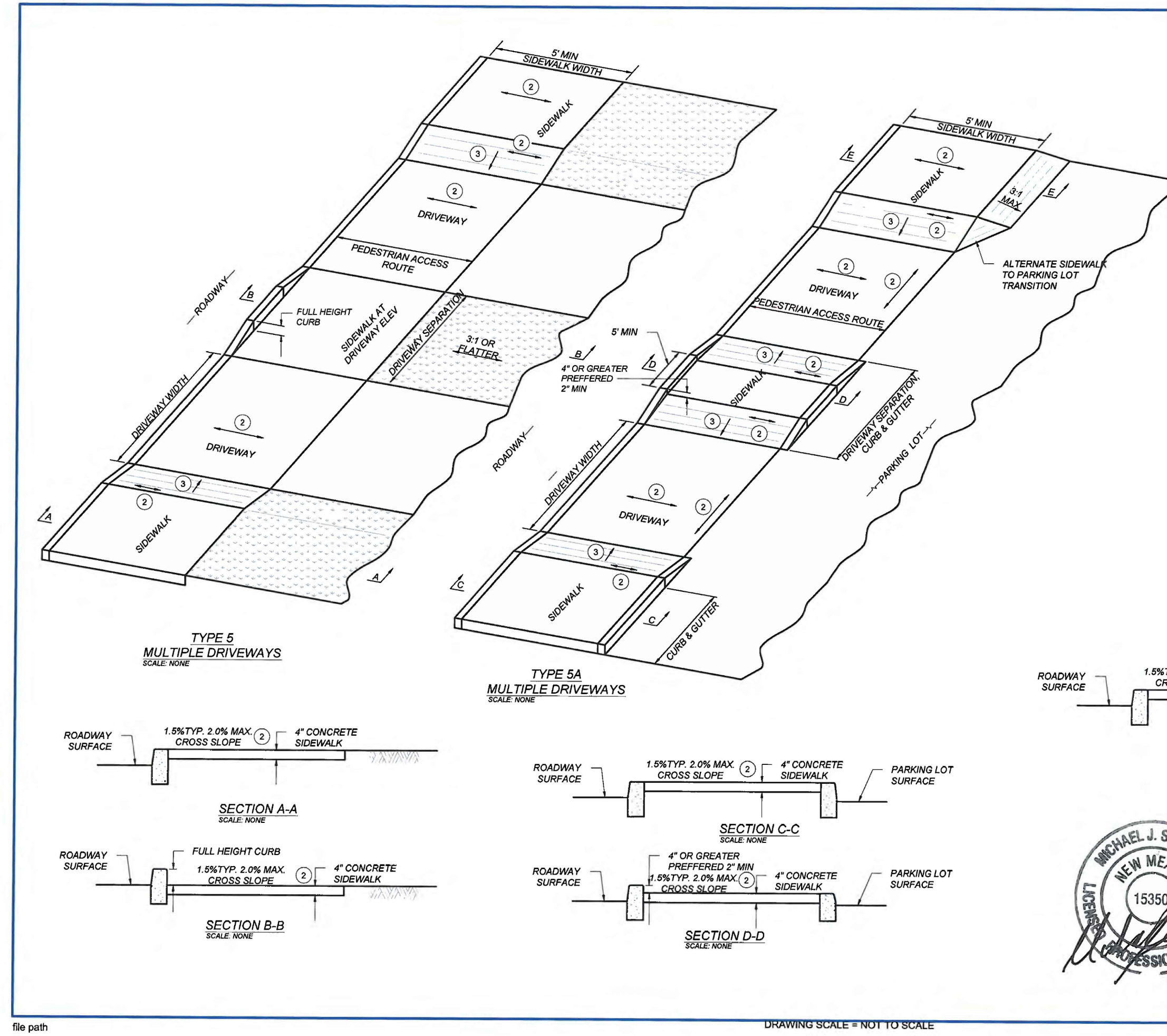
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- RUNNING SLOPE OF THE CURB RAMP SHALL BE 3 1/4% MAX (RECOMMENDED 7.0%) BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 18.0 FT TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAX LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS MAXIMUM EXTENT PRACTICABLE.
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- IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT COMPLIANCE TO PROVIDE A CURB RAMP FOR EACH PEDESTRIAN CROSSING A SINGLE DIAGONAL CURB RAMP SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- CONCRETE HEADER CURBS CONSTRUCTED AS PART OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO ITEM NUMBER 60804 AND NO SEPARATE PAYMENT WILL BE MADE.

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**KEYED NOTES**

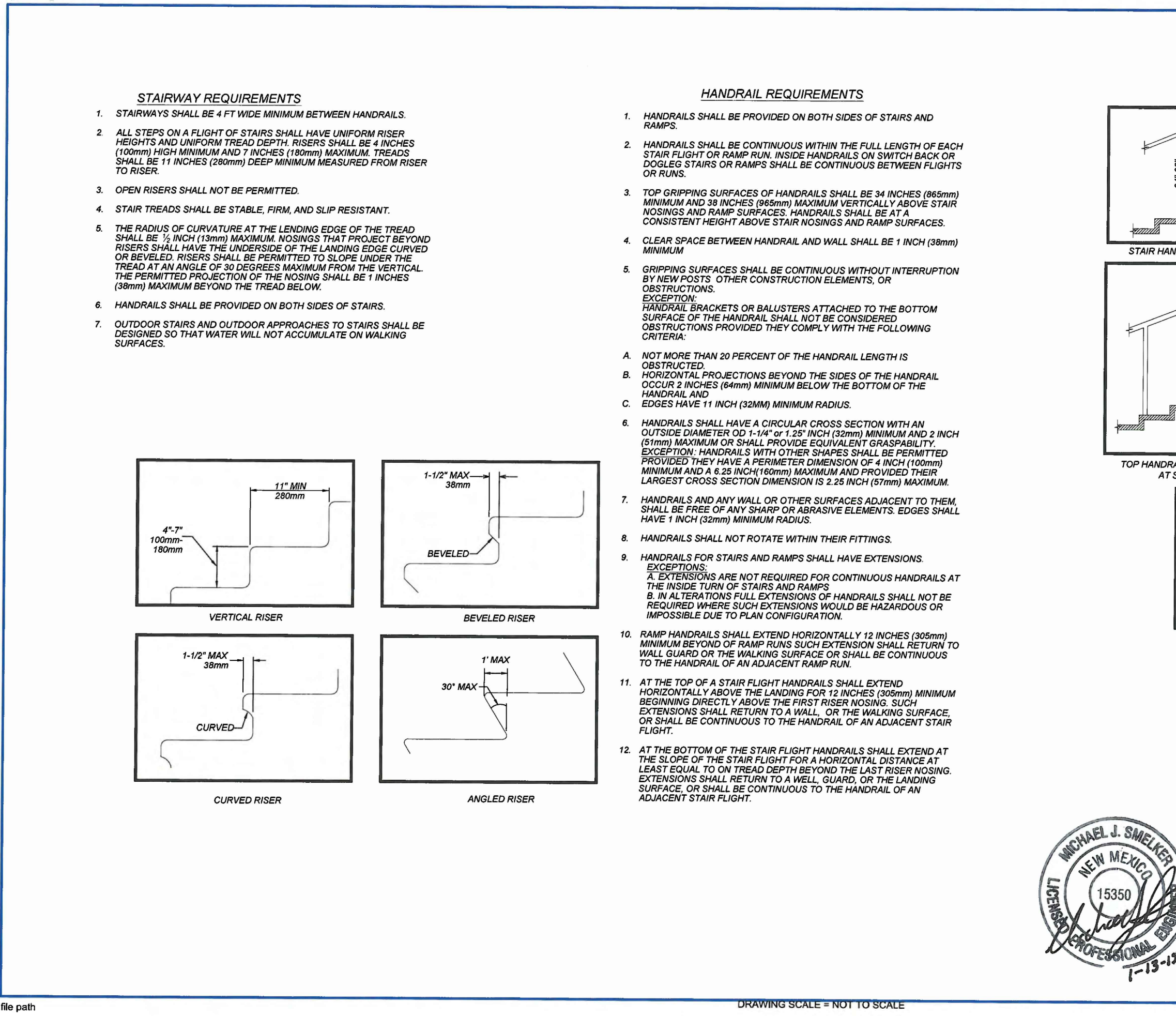
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**STAIRWAY REQUIREMENTS**

- STAIRWAYS SHALL BE 4 FT WIDE MINIMUM BETWEEN HANDRAILS.
- ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (100mm) HIGH MINIMUM AND 7 INCHES (180mm) MAXIMUM. TREADS SHALL BE 11 INCHES (280mm) DEEP MINIMUM MEASURED FROM RISER TO RISER.
- OPEN RISERS SHALL NOT BE PERMITTED.
- STAIR TREADS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
- THE RADIUS OF CURVATURE AT THE LANDING EDGE OF THE TREAD SHALL BE 3/4 INCH (19mm) MAXIMUM NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LANDING EDGE CURVED OR BEVELLED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM THE VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL BE 1/2 INCHES (13mm) MAXIMUM BEYOND THE TREAD BELOW.
- HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS.
- OUTDOOR STAIRS AND OUTDOOR APPROACHES TO STAIRS SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

**HANDRAIL REQUIREMENTS**

- HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
- HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCH BACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
- TOP GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865mm) MINIMUM AND 38 INCHES (965mm) MAXIMUM VERTICALLY ABOVE STAIR NOSINGS AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS AND RAMP SURFACES.
- CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE 1 INCH (25mm) MINIMUM.
- GRIPPING SURFACES SHALL BE CONTINUOUS WITHOUT INTERRUPTION BY NEW POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS. EXCEPTION: HANDRAIL BRACKETS OR BALLUSTERS ATTACHED TO THE BOTTOM SURFACE OF THE HANDRAIL SHALL NOT BE CONSIDERED OBSTRUCTIONS PROVIDED THEY COMPLY WITH THE FOLLOWING CRITERIA:
  - NOT MORE THAN 20 PERCENT OF THE HANDRAIL LENGTH IS OBSTRUCTED.
  - HORIZONTAL PROJECTIONS BEYOND THE SIDES OF THE HANDRAIL OCCUR 2 INCHES (50mm) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL AND
  - EDGES HAVE 1/4 INCH (6mm) MINIMUM RADIUS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1 1/4" (32mm) MINIMUM AND 2 INCH (51mm) MAXIMUM OR SHALL PROVIDE EQUIVALENT GRASPABILITY. EXCEPTION: HANDRAILS WITH OTHER SHAPES SHALL BE PERMITTED PROVIDED THEY HAVE A PERIMETER DIMENSION OF 4 INCH (100mm) MINIMUM AND A 6 INCH (150mm) MAXIMUM AND PROVIDED THEIR LARGEST CROSS SECTION DIMENSION IS 2 1/2 INCH (65mm) MAXIMUM.
- HANDRAILS AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE 1 INCH (25mm) MINIMUM RADIUS.
- HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- HANDRAILS FOR STAIRS AND RAMPS SHALL HAVE EXTENSIONS. EXCEPTIONS:
  - EXTENSIONS ARE NOT REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF STAIRS AND RAMPS.
  - IN ALTERNATIONS WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS OR IMPROBABLE DUE TO PLAN CONFIGURATION.
- RAMP HANDRAILS SHALL EXTEND HORIZONTALLY 12 INCHES (305mm) MINIMUM BEYOND THE HEAD OF THE RAMP RUN. HANDRAILS SHALL RETURN TO WALL GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
- AT THE TOP OF A STAIR FLIGHT HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305mm) MINIMUM BEYOND THE HEAD OF THE STAIR FLIGHT. HANDRAILS SHALL RETURN TO WALL GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- AT THE BOTTOM OF THE STAIR FLIGHT HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ON TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSIONS SHALL RETURN TO A WELL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

**STAIR HANDRAIL HEIGHT**

**RAMP HANDRAIL HEIGHT**

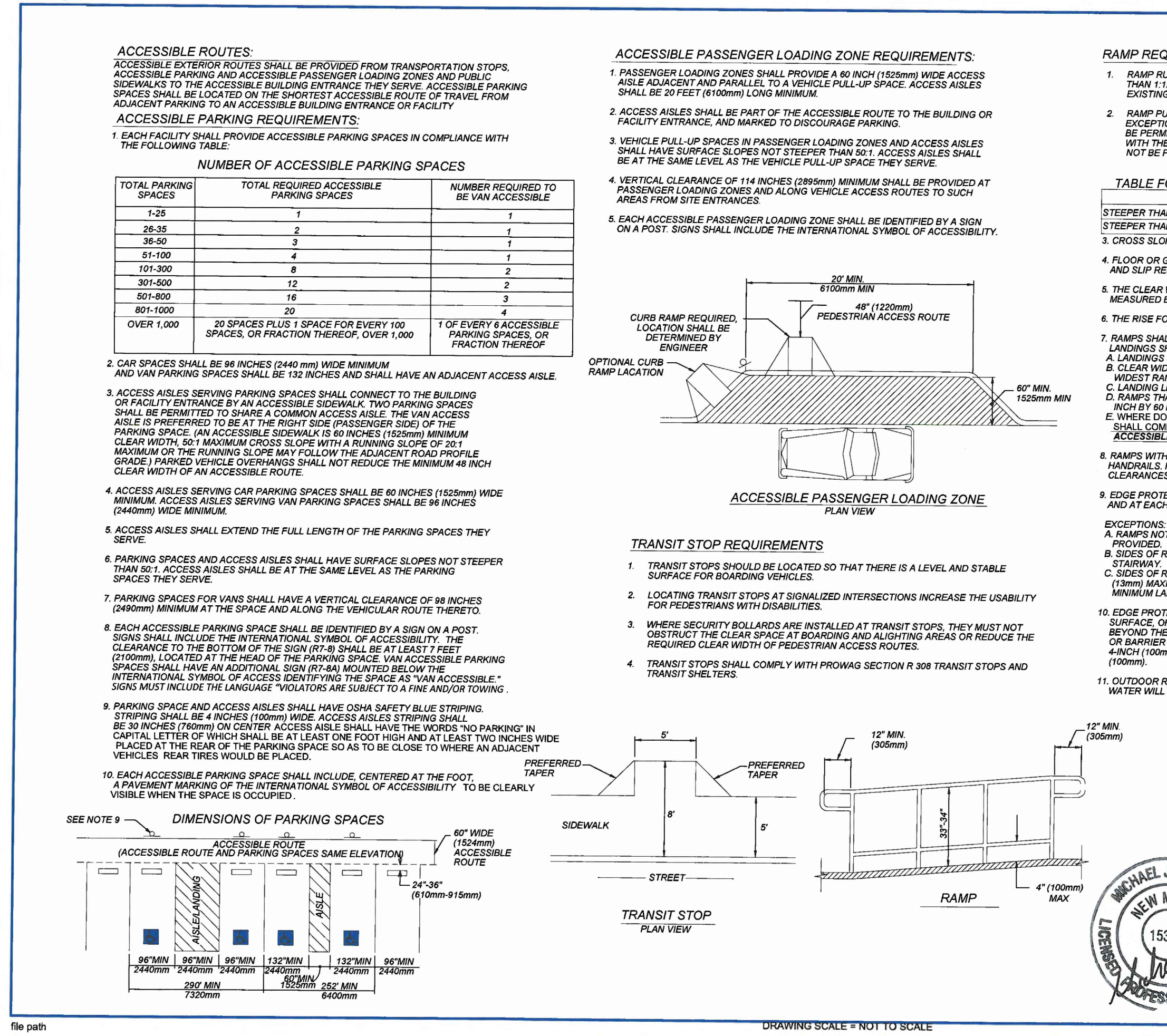
**TOP HANDRAIL EXTENSION AT STAIRS**

**BOTTOM HANDRAIL EXTENSION AT STAIRS**

**HANDRAIL CLEARANCE**

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**ACCESSIBLE ROUTES:**

ACCESSIBLE EXTERIOR ROUTES SHALL BE PROVIDED FROM TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES AND PUBLIC SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE OR FACILITY.

**ACCESSIBLE PARKING REQUIREMENTS:**

1. EACH FACILITY SHALL PROVIDE ACCESSIBLE PARKING SPACES IN COMPLIANCE WITH THE FOLLOWING TABLE:

TOTAL PARKING SPACES	TOTAL REQUIRED ACCESSIBLE PARKING SPACES	NUMBER REQUIRED TO BE VAN ACCESSIBLE
1-25	1	1
26-50	2	1
51-100	3	1
101-200	4	1
201-500	8	2
501-1000	12	2
1001-5000	18	3
5001-10000	20	4
OVER 1,000	20 SPACES PLUS 1 SPACE FOR EVERY 100 SPACES, OR FRACTION THEREOF, OVER 1,000	1 OF EVERY 6 ACCESSIBLE PARKING SPACES OR FRACTION THEREOF

2. CAR SPACES SHALL BE 98 INCHES (2490mm) WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 102 INCHES AND SHALL HAVE AN ADJACENT ACCESS AISLE.

3. ACCESS AISLES SERVING PARKING SPACES SHALL CONNECT TO THE BUILDING OR FACILITY ENTRANCE BY AN ACCESSIBLE ACCESS AISLE. THE VAN ACCESS AISLE IS REFERRED TO BE AT THE RIGHT SIDE (PASSENGER SIDE) OF THE CLEAR WIDTH. 501 MAXIMUM CROSS SLOPE WITH A RUNNING SLOPE OF 201 MAXIMUM OR THE RUNNING SLOPE MAY FOLLOW THE ADJACENT ROAD PROFILE (STREET) PROVIDED VEHICLE OVERHANGS SHALL NOT REDUCE THE MINIMUM 48 INCH CLEAR WIDTH OF AN ACCESSIBLE ROUTE.

4. ACCESS AISLES SERVING CAR PARKING SPACES SHALL BE 60 INCHES (1525mm) WIDE MINIMUM. ACCESS AISLES SERVING VAN PARKING SPACES SHALL BE 98 INCHES (2490mm) WIDE MINIMUM.

5. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE.

6. PARKING SPACES AND ACCESS AISLES SHALL HAVE SURFACE SLOPES NOT STEEPER THAN 501. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE.

7. PARKING SPACES FOR VANS SHALL HAVE A VERTICAL CLEARANCE OF 88 INCHES (2240mm) MINIMUM AT THE SPACE AND ALONG THE VEHICULAR ROUTE THERETO.

8. EACH ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED BY A SIGN ON A POST. SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE CLEARANCE TO THE BOTTOM OF THE SIGN (R-8) SHALL BE AT LEAST 7 FEET (2100mm) LOCATED AT THE HEAD OF THE ACCESSIBLE ROUTE. ACCESSIBLE PARKING SPACES SHALL HAVE AN ADDITIONAL SIGN (R-8) MOUNTED BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL BE PLACED AT THE REAR OF THE PARKING SPACE AS TO BE CLOSE TO WHERE AN ADJACENT VEHICLES REAR TIRES WOULD BE PLACED.

9. PARKING SPACE AND ACCESS AISLES SHALL HAVE OSHA SAFETY BLUE STRIPING. STRIPING SHALL BE 4 INCHES (100mm) WIDE ACCESS AISLES STRIPING SHALL BE 30 INCHES (760mm) ON CENTER. ACCESS AISLES SHALL HAVE THE WORDS "NO PARKING" IN CAPITAL LETTERS OF WHICH SHALL BE AT LEAST ONE FOOT HIGH AND AT LEAST TWO INCHES WIDE PLACED AT THE REAR OF THE PARKING SPACE AS TO BE CLOSE TO WHERE AN ADJACENT VEHICLES REAR TIRES WOULD BE PLACED.

10. EACH ACCESSIBLE PARKING SPACE SHALL INCLUDE, CENTERED AT THE FOOT, A PERMANENT MARKING OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY TO BE CLEARLY VISIBLE WHEN THE SPACE IS OCCUPIED.

**ACCESSIBLE PASSENGER LOADING ZONE REQUIREMENTS:**

- PASSENGER LOADING ZONES SHALL PROVIDE A 60 INCH (1525mm) WIDE ACCESS AISLE ADJACENT AND PARALLEL TO A VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL BE 20 FEET (6100mm) LONG MINIMUM.
- ACCESS AISLES SHALL BE PART OF THE ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE, AND MARKED TO DISCOURAGE PARKING.
- VEHICLE PULL-UP SPACES IN PASSENGER LOADING ZONES AND ACCESS AISLES SHALL HAVE SURFACE SLOPES NOT STEEPER THAN 501. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE.
- VERTICAL CLEARANCE OF 114 INCHES (2895mm) MINIMUM SHALL BE PROVIDED AT PASSENGER LOADING ZONES AND ALONG VEHICLE ACCESS ROUTES TO SUCH AREAS FROM SITE ENTRANCE.
- EACH ACCESSIBLE PASSENGER LOADING ZONE SHALL BE IDENTIFIED BY A SIGN ON A POST. SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

**RAMP REQUIREMENTS:**

- RAMP RUNS SHALL HAVE A RUNNING SLOPE GREATER THAN 1:20 AND NOT STEEPER THAN 1:12. THE EXCEPTION SHALL BE SHOWN, INCLUDING THE TABLE FOR EXISTING BUILDINGS AND FACILITIES.
- RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:21. EXCEPTION: RAMP RUNS ON EXISTING BUILDINGS OR FACILITIES SHALL BE PERMITTED TO HAVE SLOPES STEEPER THAN 1:21 AND SHALL COMPLY WITH THE FOLLOWING TABLE WHERE SUCH SLOPES STEEPER THAN 8:1 SHALL NOT BE PERMITTED.

SLOPE	MAXIMUM RISE
STEEPER THAN 10:1 BUT NOT STEEPER THAN 8:1	3 INCHES (75mm)
STEEPER THAN 12:1 BUT NOT STEEPER THAN 10:1	6 INCHES (150mm)

- CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 501.
- FLOOR OR GROUND SURFACES OF RAMP RUN SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
- THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES (1215mm) MINIMUM MEASURED BETWEEN HANDRAILS.
- THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES (760mm) MAXIMUM.
- RAMP RUNS SHALL HAVE LANDINGS AT THE BOTTOM AND TOP OF EACH RUN. LANDINGS SHALL COMPLY WITH THE FOLLOWING:
  - LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 501.
  - CLEAR WIDTH OF LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
  - LANDING LENGTH SHALL BE 60 INCHES (1525mm) MINIMUM CLEAR.
  - D. RAMPS THAT CHANGE DIRECTION AT A LANDING SHALL HAVE A 60 INCH BY 60 INCH (1525mm) MINIMUM LANDING.
  - E. WHERE DOORWAYS ARE ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES SHALL COMPLY WITH 5010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN (2010 ADA SECTION 404).
- RAMP RUNS WITH A RISE GREATER THAN 8 INCHES (200mm) SHALL HAVE HANDRAILS. HANDRAILS SHALL NOT REDUCE THE REQUIRED CLEARANCES OF A RAMP RUN OR LANDINGS.
- EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS. EXCEPTIONS:
  - RAMP RUNS NOT REQUIRED TO HAVE HANDRAILS WHERE SIDE FLURES ARE PROVIDED.
  - SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY.
  - SIDES OF RAMP TURN SPACE HAVING A VERTICAL DROP-OFF OF 1/2 INCH (13mm) MAXIMUM WITHIN 10 INCHES (250mm) HORIZONTALLY OF THE MINIMUM LANDING AREA.
- EDGE PROTECTION MAY BE PROVIDED BY EXTENDING A FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING, 12 INCHES (305mm) MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL OR AN EDGE PROTECTION CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4-INCH (100mm) DIA. CYLINDER SPORE BELOW A HEIGHT OF 4 INCHES (100mm).
- OUTDOOR RAMPS AND APPROACHES TO RAMPS SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

**TRANSIT STOP REQUIREMENTS**

- TRANSIT STOPS SHOULD BE LOCATED SO THAT THERE IS A LEVEL AND STABLE SURFACE FOR BOARDING VEHICLES.
- LOCATING TRANSIT STOPS AT SIGNALIZED INTERSECTIONS INCREASE THE USABILITY FOR PEDESTRIANS WITH DISABILITIES.
- WHERE SECURITY BOLLARDS ARE INSTALLED AT TRANSIT STOPS, THEY MUST NOT OBSTRUCT THE CLEAR SPACE AT BOARDING AND ALIGHTING AREAS OR REDUCE THE REQUIRED CLEAR WIDTH OF PEDESTRIAN ACCESS ROUTES.
- TRANSIT STOPS SHALL COMPLY WITH PROWAG SECTION 308 TRANSIT STOPS AND TRANSIT SHELTERS.

**TABLE FOR EXISTING SITES, BUILDINGS AND FACILITIES**

SLOPE	MAXIMUM RISE
STEEPER THAN 10:1 BUT NOT STEEPER THAN 8:1	3 INCHES (75mm)
STEEPER THAN 12:1 BUT NOT STEEPER THAN 10:1	6 INCHES (150mm)

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### TEMPORARY EROSION & SEDIMENT CONTROL MEASURES (T.E.S.C.M.)

**TYPICAL USAGE OF SELECTED EROSION AND SEDIMENT CONTROL MEASURES**

**STANDARD SYMBOLS FOR EROSION AND SEDIMENT CONTROL MEASURES**

SILT FENCE	PIPE SLOPE DRAIN	SEDIMENT TRAP, BERM
STRAW BALES	DROP INLET PROTECTION	SEDIMENT TRAP, EXCAVATED
EARTH DIKE	CULVERT PROTECTION	SEDIMENT BASIN
DIVERSION CHANNEL (SWALE)	CHECK DAM	TRIANGULAR SEDIMENT FILTER DIKE
		TSFD

**GENERAL NOTES**

- THE SOIL RETENTION BLANKET INSTALLATION DETAILS SHOWN FOR CULVERT PROTECTION SHALL BE USED FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UTILIZING SOIL RETENTION BLANKETS UNLESS OTHERWISE NOTED.
- ROCK PLATING USED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE SHEETS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES UNLESS OTHERWISE INDICATED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PLACED WITHIN THE CONSTRUCTION CLEAR ZONE SHALL BE INSTALLED WITH 8:1 SLOPES PARALLEL TO TRAFFIC AND 4:1 SLOPES PERPENDICULAR TO TRAFFIC.
- SEDIMENT TRAPS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
- CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE CHECK DAM.
- CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH WORK ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
- THE CONTRACTOR MAY CONSTRUCT AN EARTH DIKE AS SHOWN, OR RELOCATE THE CHECK DAMS AS CONSTRUCTION PROGRESSES. NO DIRECT PAYMENT SHALL BE MADE FOR RELOCATION OF THE CHECK DAMS.
- STRAW BALES ARE NOT INTENDED FOR USE ON NEW MEXICO DEPARTMENT OF TRANSPORTATION PROJECTS.

NO.	DATE	REV. BY	DESCRIPTION
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES			
APPROVED: <i>Raymond Van Hoven</i> 11/27/09 DESIGN ENGINEER			
DESIGNED BY _____		DRAWN BY _____	
603-01-1/7		SERIAL 1 OF 7	

**TYPE III (STRAW BALE)**

**TYPE II STONE DAM**

NO.	DATE	REV. BY	DESCRIPTION
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES			
CHECK DAMS			
APPROVED: <i>Raymond Van Hoven</i> 11/27/09 DESIGN ENGINEER			
DESIGNED BY _____		DRAWN BY _____	
603-01-2/7		SHEET 2 OF 7	

### NOTES: SILT FENCE AND CHECK DAM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POST SPACING FOR SILT FENCES TO MINIMIZE MAINTENANCE.

- POST SPACING SHALL BE 4 FT. MAXIMUM WITHOUT SUPPORTING FENCE, 10 FT. MAXIMUM WITH SUPPORTING FENCE.
- POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 2 LBS. PER LINEAR FOOT.
- POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STEEL POSTS AS SPECIFIED ABOVE.
- SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN., 1 INCH MAX. MESH OPENINGS), SNOW FENCE, PLASTIC FENCE OR APPROVED.
- SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 2 FT. CENTERS ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.
- WHEN SILT FENCE IS USED FOR CHECK DAMS INSTALLED IN DITCHES, A SUPPORTING FENCE SHALL BE PROVIDED, WITH MAXIMUM POST SPACING OF 10 FT.
- STANDARD "T" OR "U" SECTION STEEL POSTS SHALL NOT BE USED WITHIN THE CONSTRUCTION CLEAR ZONE RECOVERY AREA.
- STRAW BALES ARE NOT INTENDED FOR USE ON NEW MEXICO DEPARTMENT OF TRANSPORTATION PROJECTS.

**TYPE II STRAW BALE OPTION**

**TYPE I SILT FENCE**

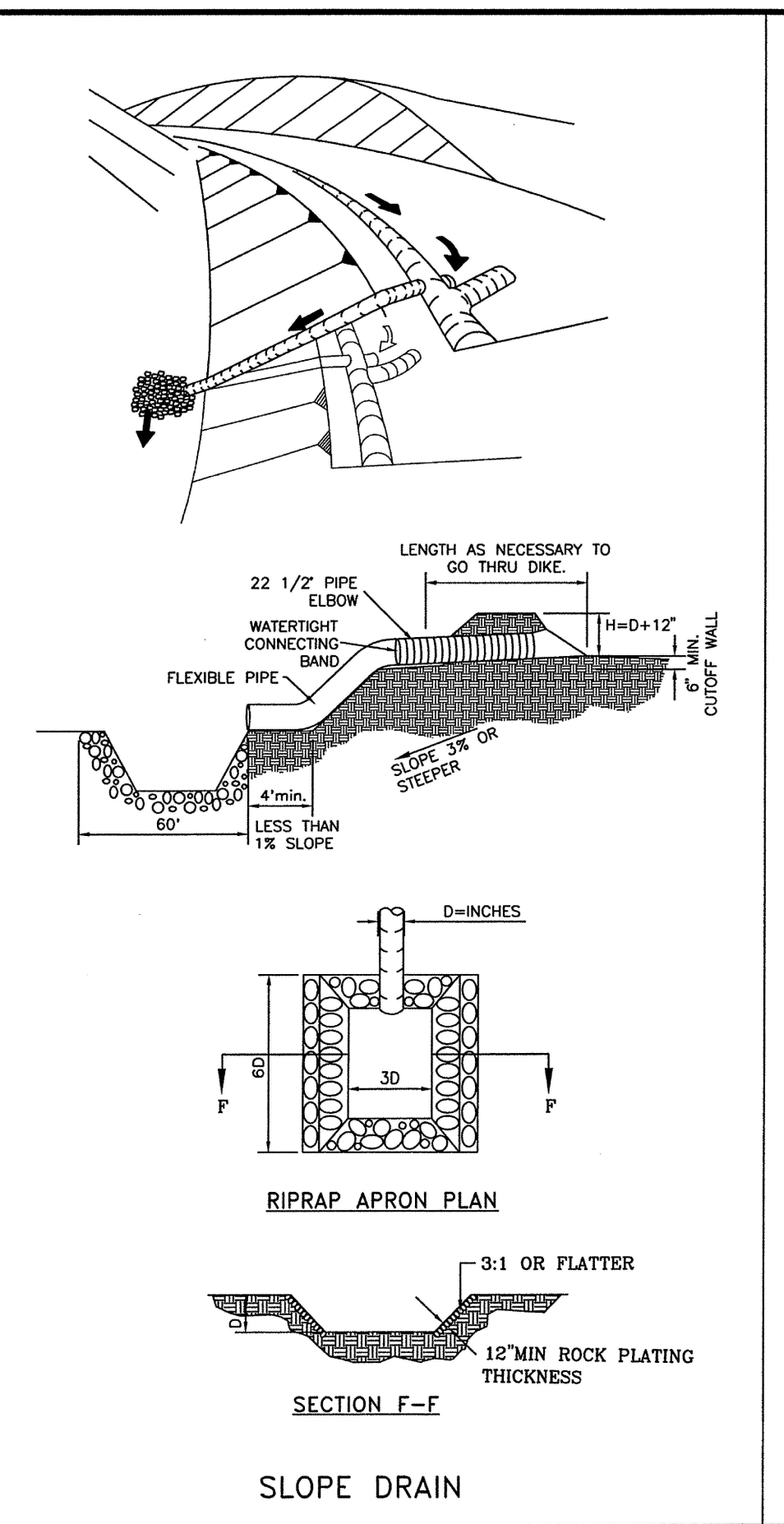
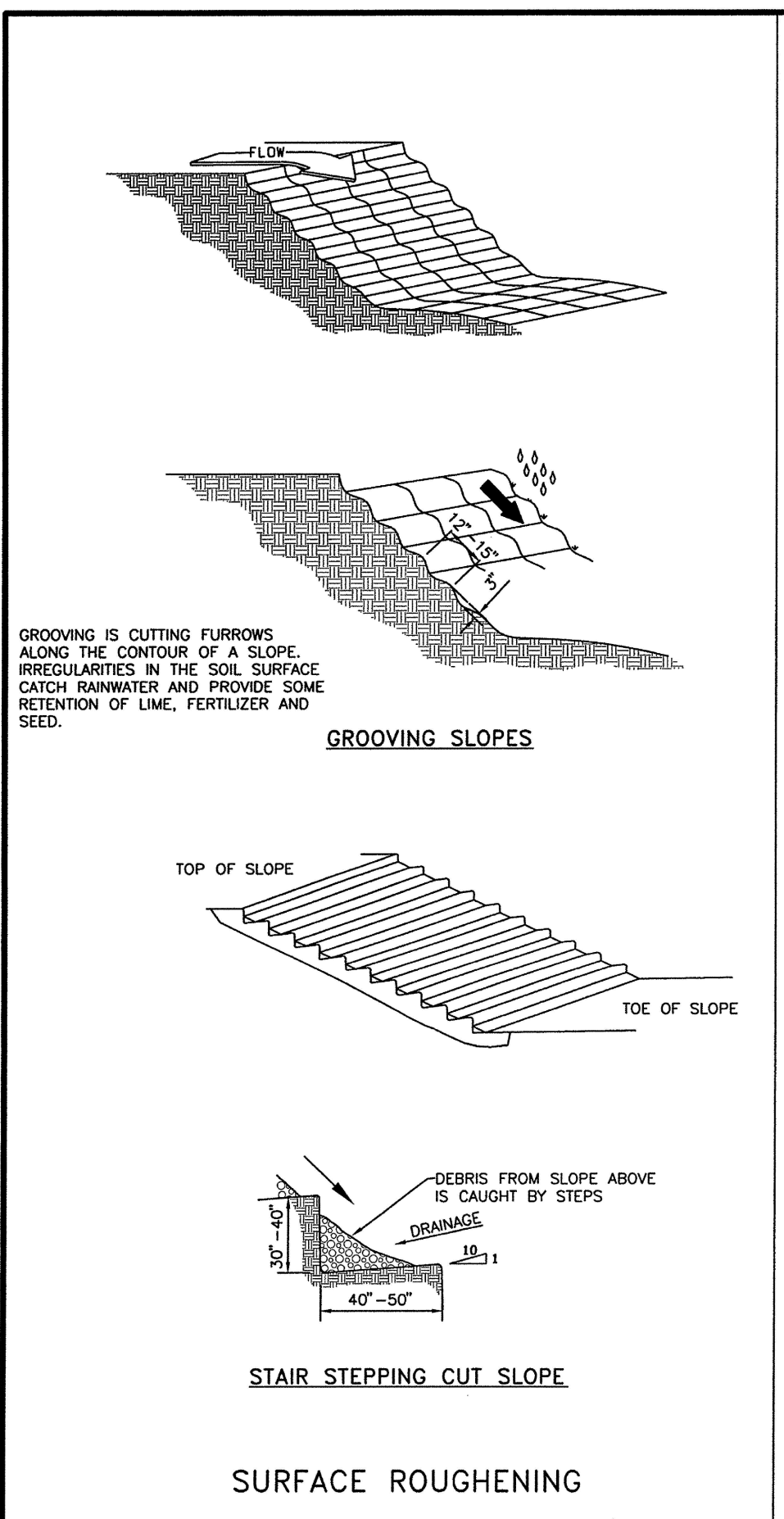
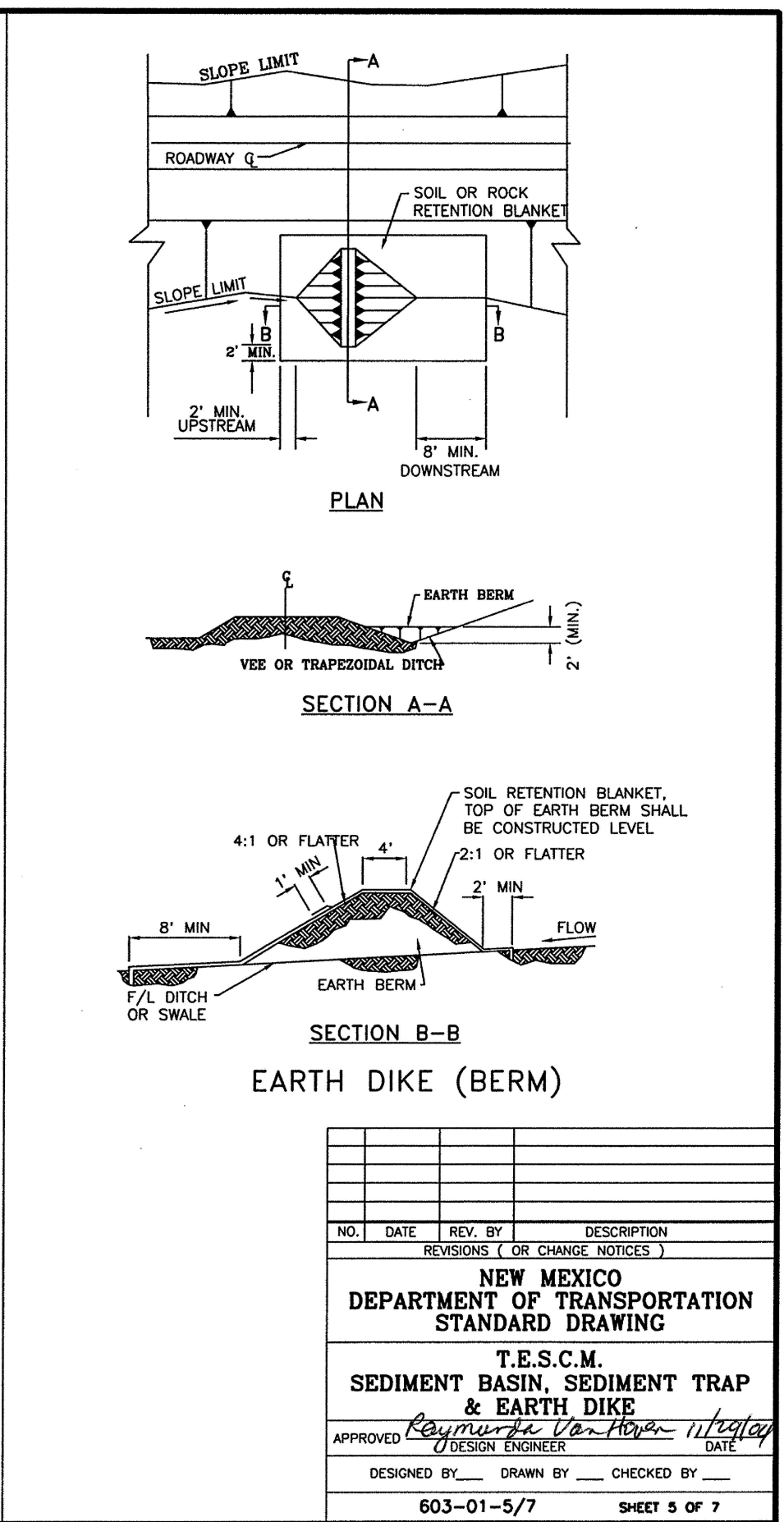
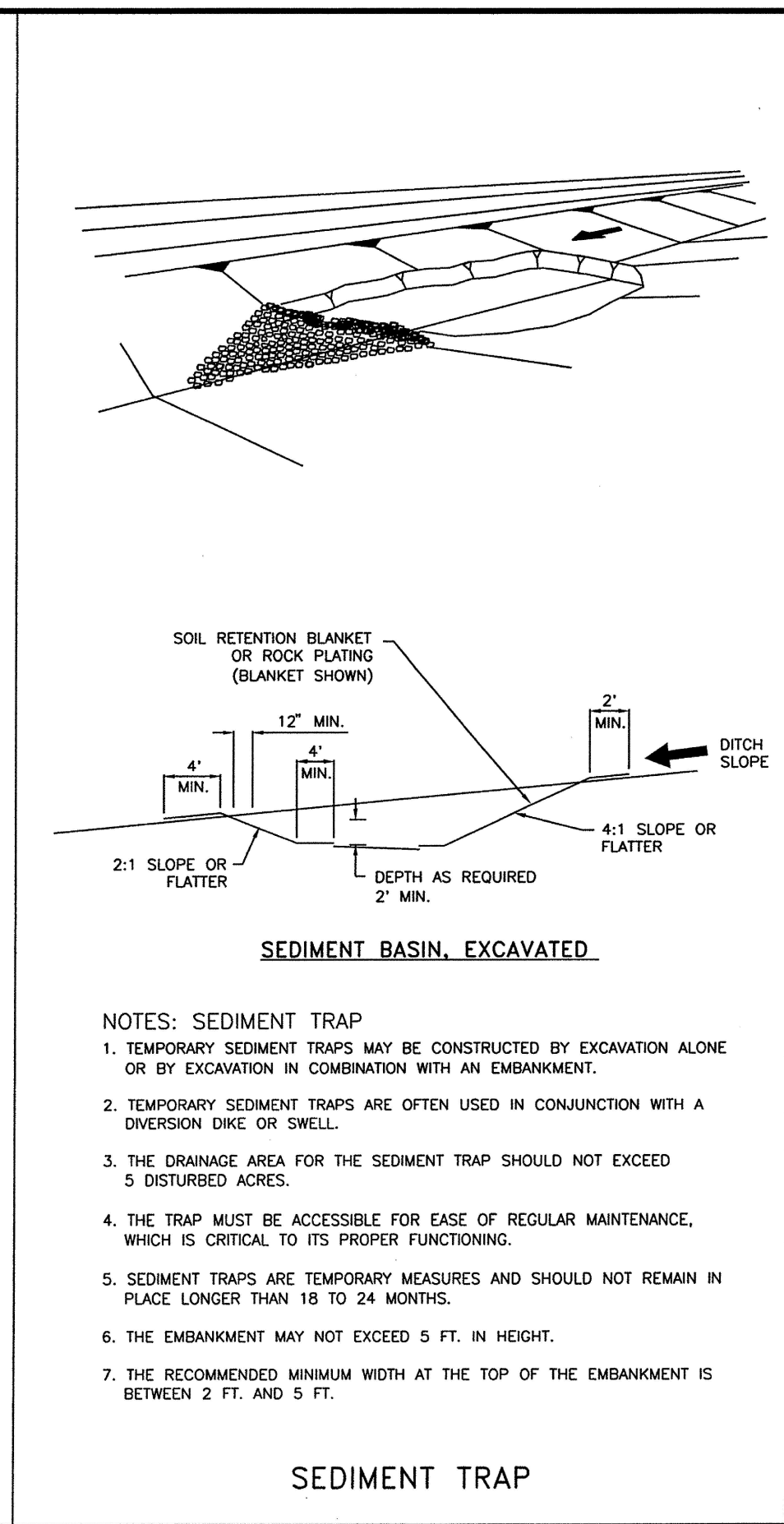
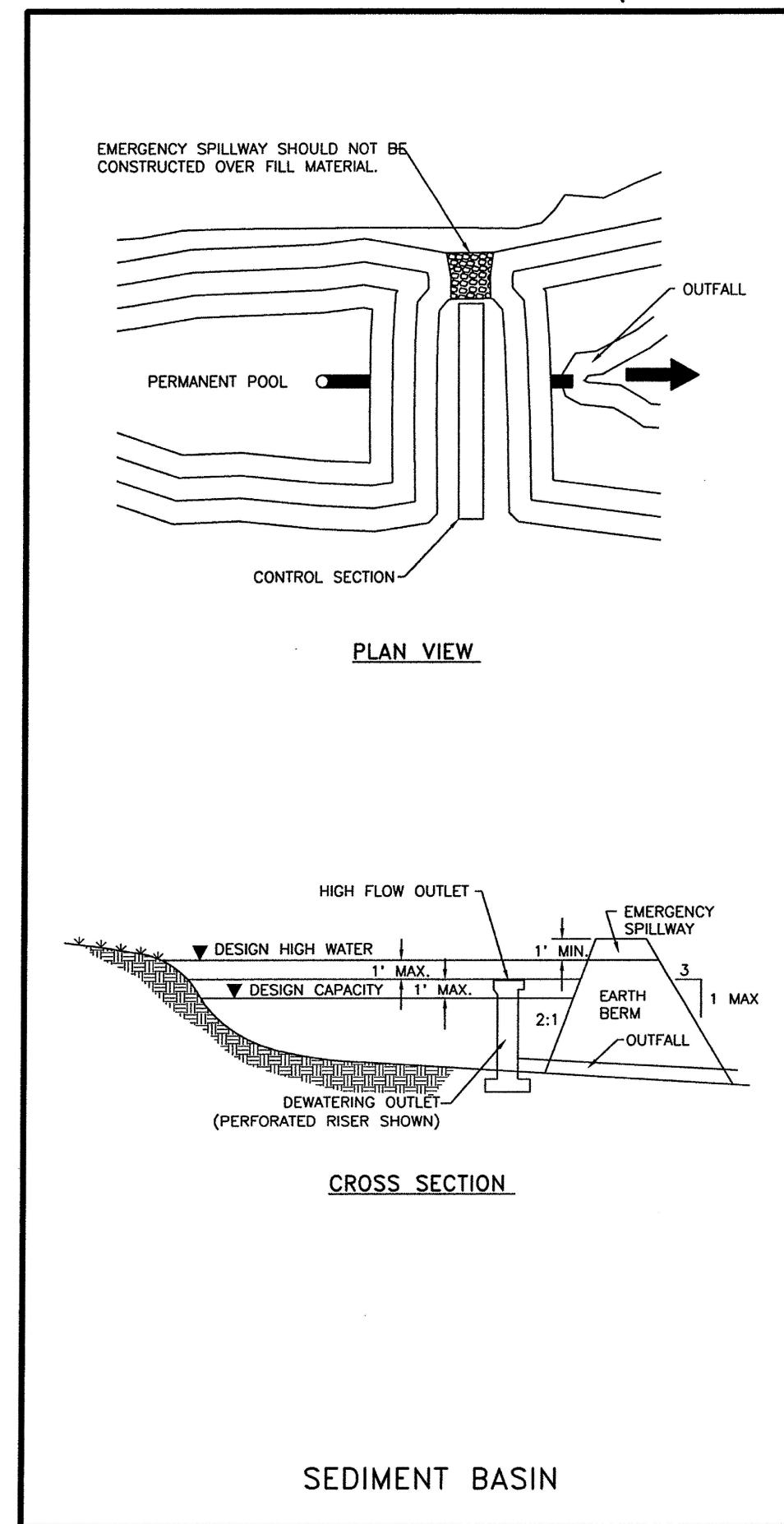
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TEMPORARY EROSION & SEDIMENT CONTROL MEASURES			
SILT FENCE			
APPROVED: <i>Raymond Van Hoven</i> 11/27/09 DESIGN ENGINEER			
DESIGNED BY _____		DRAWN BY _____	
603-01-3/7			

**TYPE I CURB OPENING**

**TYPE II CURB DROP INLET**

NO.	DATE	REV. BY	DESCRIPTION
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES			
CULVERT & DROP INLET PROTECTION			
APPROVED: <i>Raymond Van Hoven</i> 11/27/09 DESIGN ENGINEER			
DESIGNED BY _____		DRAWN BY _____	
603-01-4/7			





NOTES: PIPE SLOPE DRAIN

- THE FLEXIBLE PIPE SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED AT 10 FT. ON CENTER.
- THE FLEXIBLE PIPE SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL OR HIGH DENSITY POLYETHYLENE PIPE WITH METAL STRAPPING OR WATER TIGHT CONNECTING COLLARS.
- THE FLEXIBLE PIPE SHALL BE STAGED AT 10 FT. CENTERS ALONG THE SLOPE USING MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND.
- RIGID PIPE SHALL BE ANCHORED AT BENDS. ANCHORAGE SHALL CONSIST OF A MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO GROUND, OR EARTHEN THRUST BLOCK.
- PAYMENT OF BASIN ITEMS ARE INCIDENTAL TO THE COST OF FLEXIBLE STORM DRAIN PIPE.
- FOR PIPE DIAMETER ON TEMPORARY SLOPE DRAIN SEE TABLE BELOW

TEMPORARY SLOPE DRAIN PIPES	
Runoff Flow Rate (cfs)	Pipe Diameter Required (Inches)
0 - 6.0	18
6.0 - 9.0	21
9.0 - 12.0	24
12.0 - 20.0	30

NO. DATE REV. BY DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

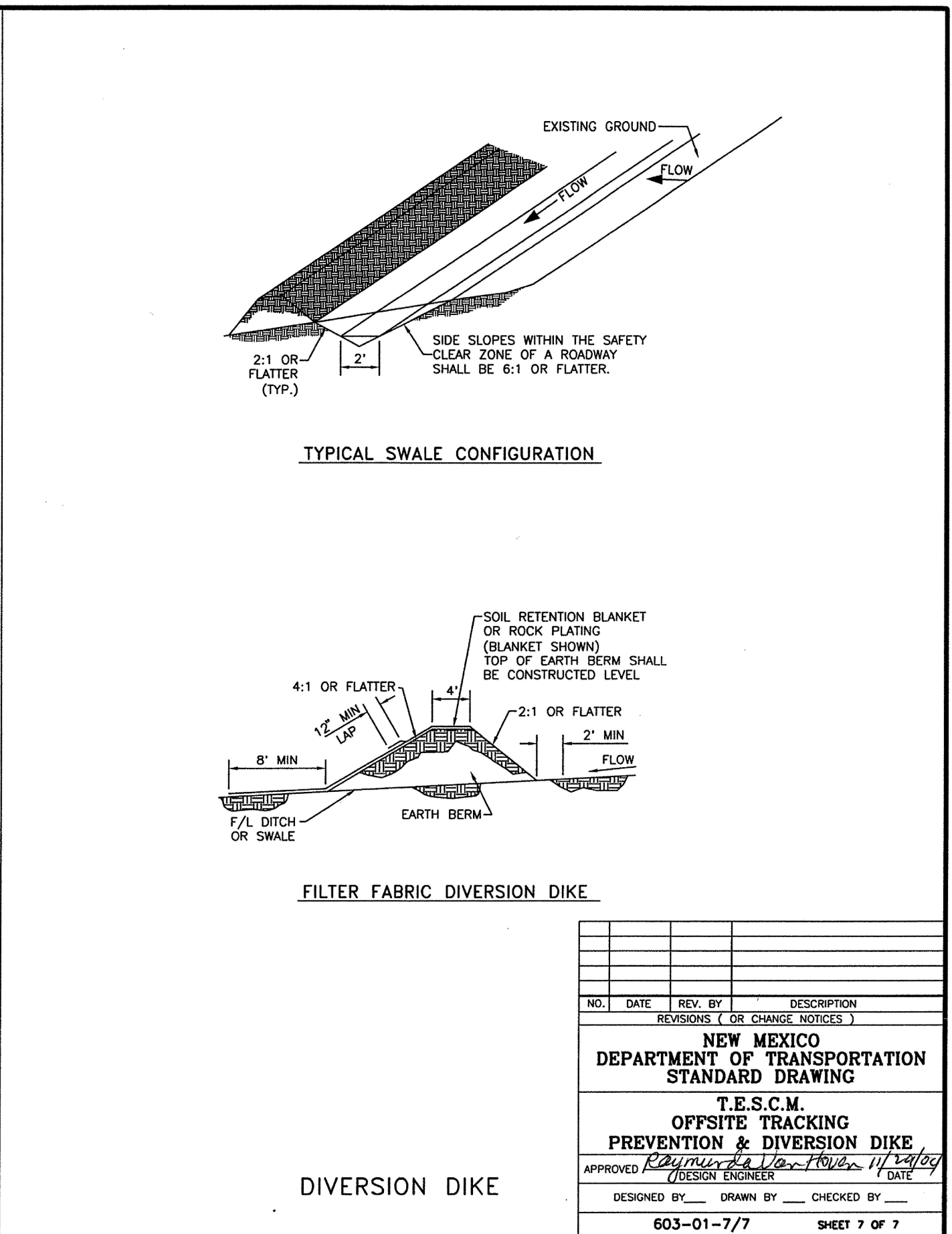
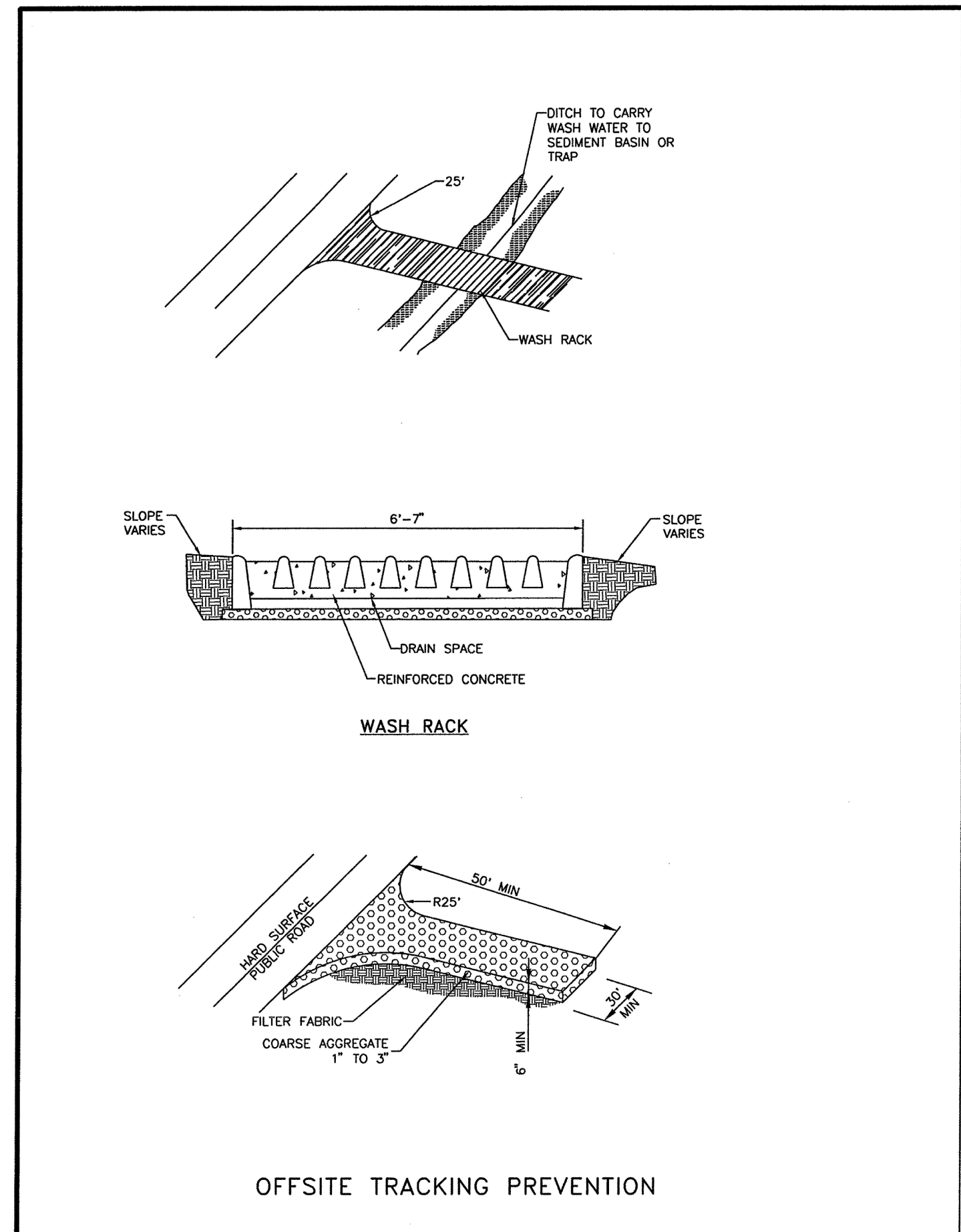
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES PIPE SLOPE DRAIN & SURFACE ROUGHENING

APPROVED [Signature] DESIGN ENGINEER DATE

DESIGNED BY [Signature] DRAWN BY [Signature] CHECKED BY [Signature]

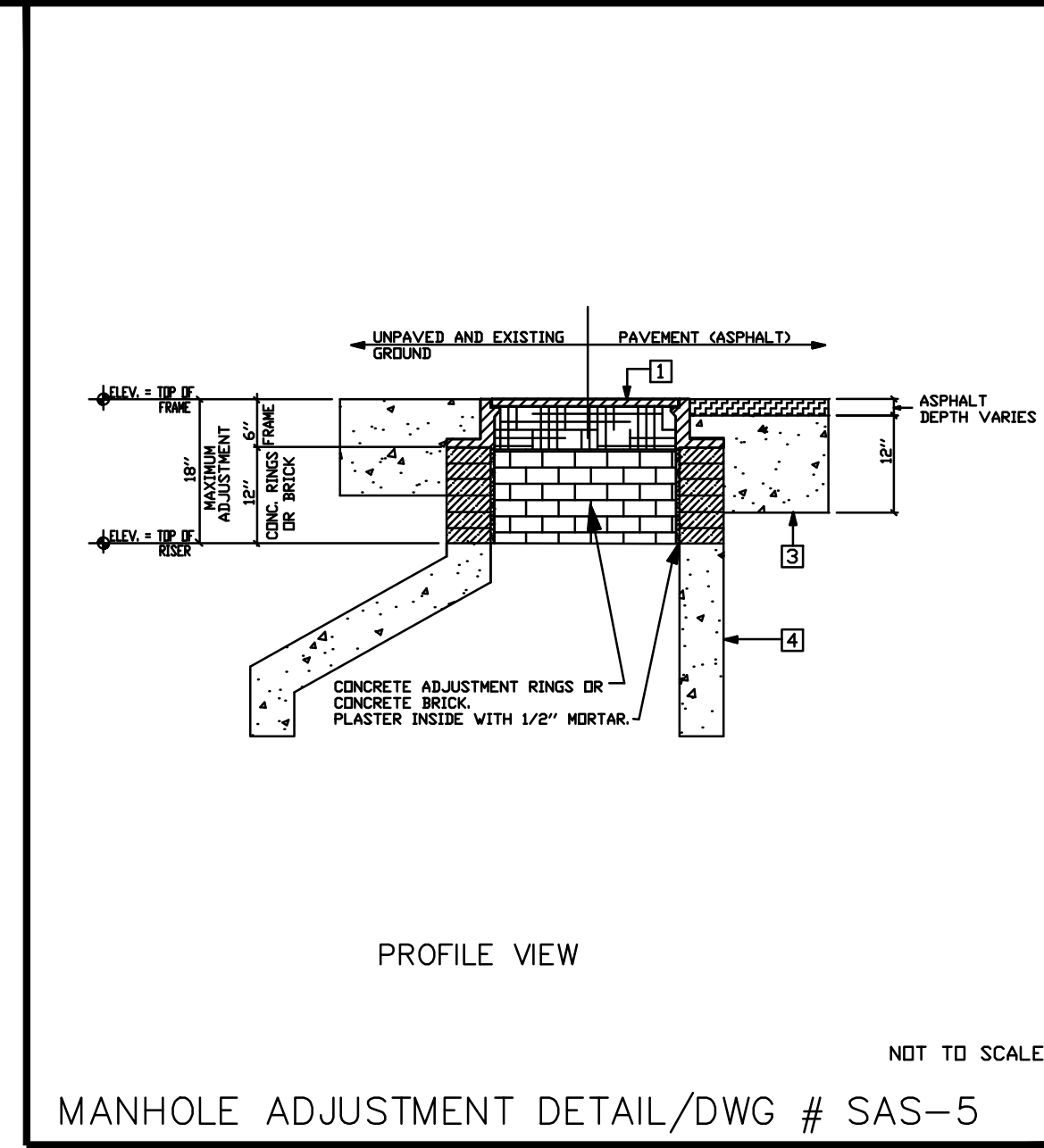
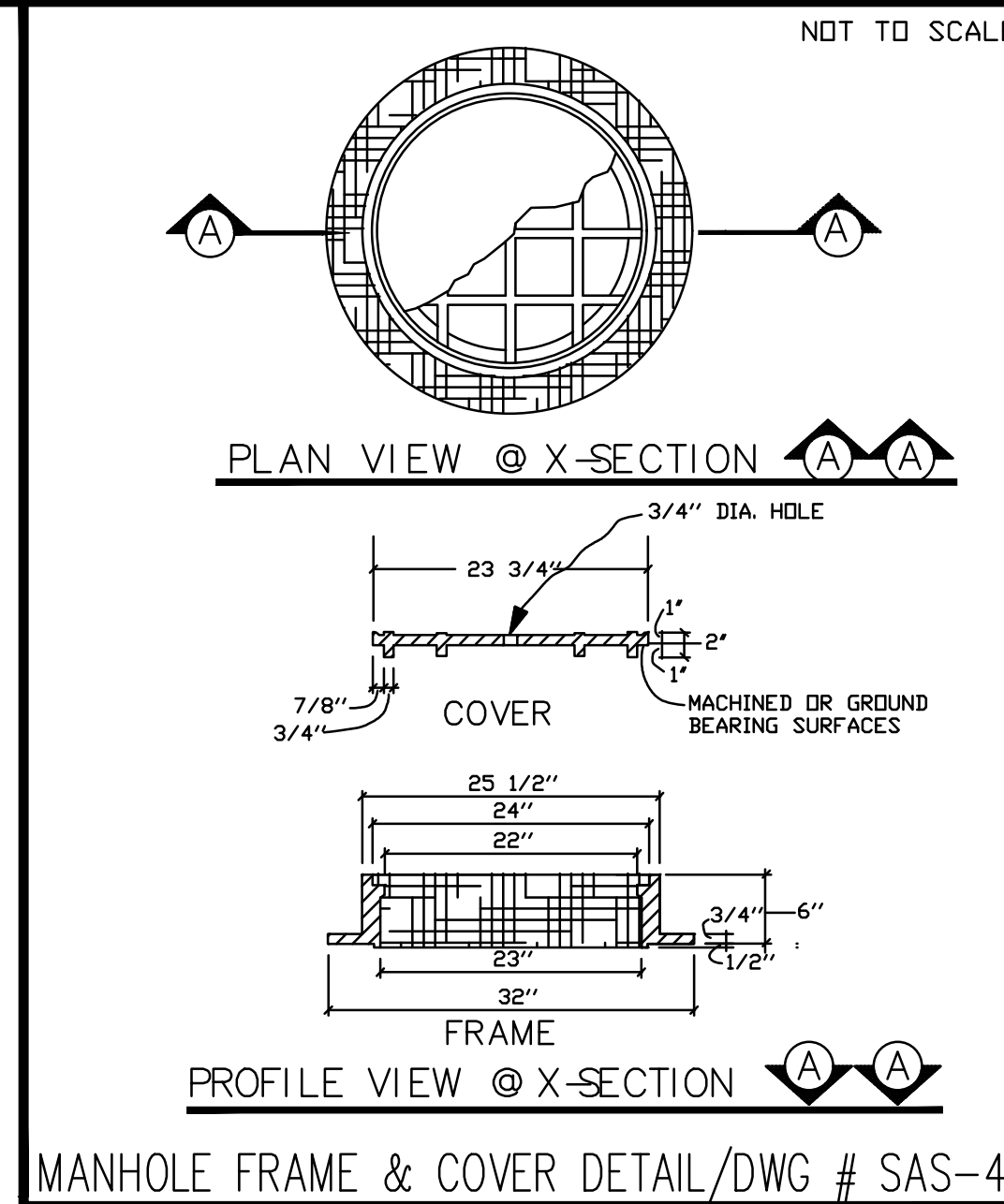
603-01-6/7 SHEET 6 OF 7





# LEGEND

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-1
8	6"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
11	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18"(in) to bell of first joint and shall cradle pipe half pipe
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-6
13	SHELF, to be 9"(in) minimum width with 1"(in) per 1'-0" slope, from crown of pipe
14	CUT UPPER HALF OF PIPE, after manhole has been completed and inspected by engineer
15	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
16	INVERT ELEVATIONS OF LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE OF PIPE, at center of manhole
18	APPROVED WATER STOP, to be with type of pipe



# GENERAL NOTES

## CONSTRUCTION REQUIREMENTS

- CR-1 MATERIALS AND WORK: CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY THE CITY OF SANTA FE.
- CR-2 APPROVED PLANS: USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. REPRESENTATION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.
- CR-3 SEWER HOOK-UP PERMIT: OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
  - A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.
- CR-4 SUBSTITUTIONS OR CHANGES: ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE CITY WATER QUALITY DIVISION OR CITY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE CITY WATER QUALITY DIVISION FOR APPROVAL. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.
- CR-5 MANUFACTURER'S CERTIFICATES: WHEN CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.
- CR-6 CONTRACTOR REQUIREMENTS: CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED UTILITY CONTRACTOR.

## INSTALLATION

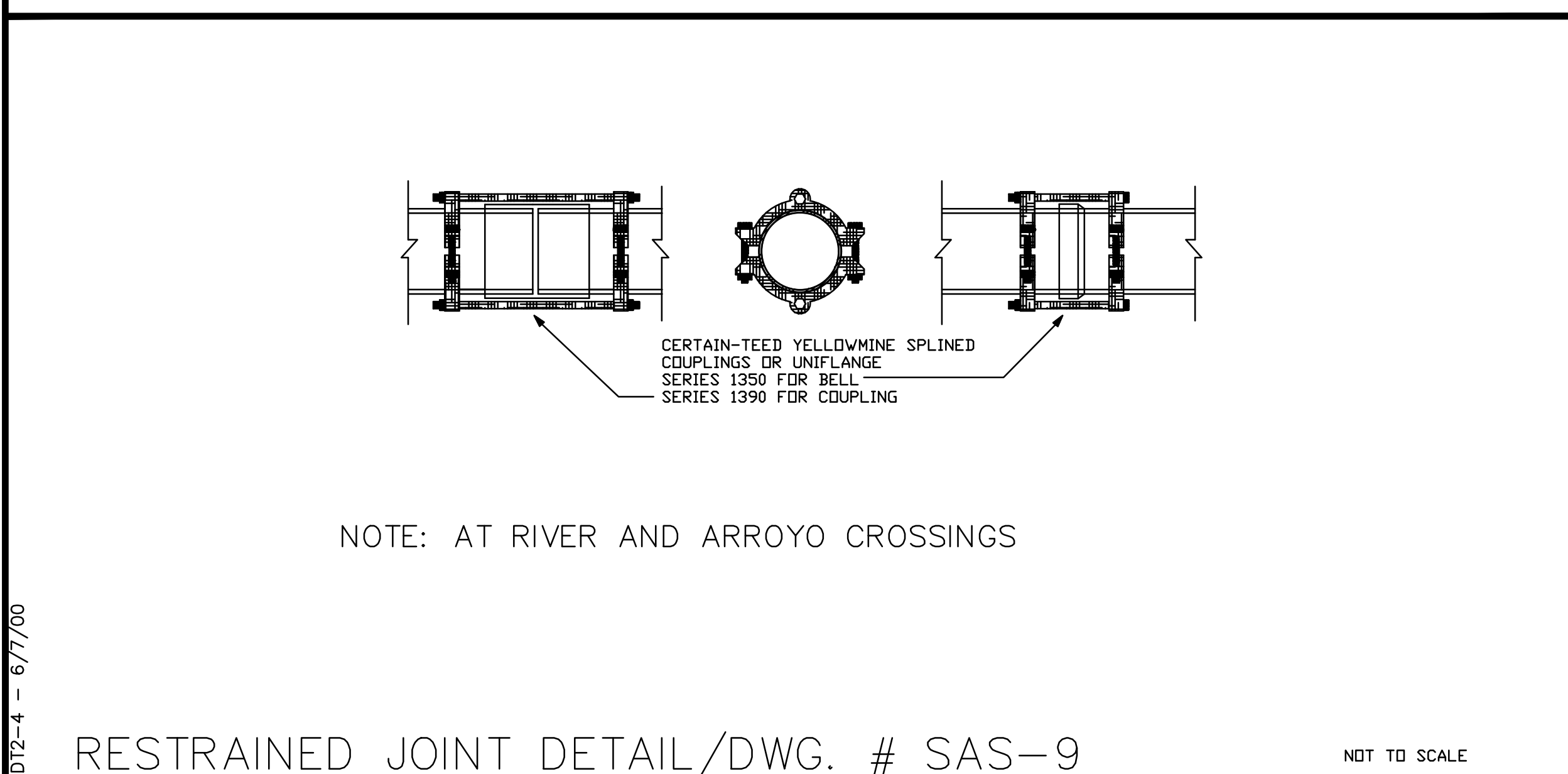
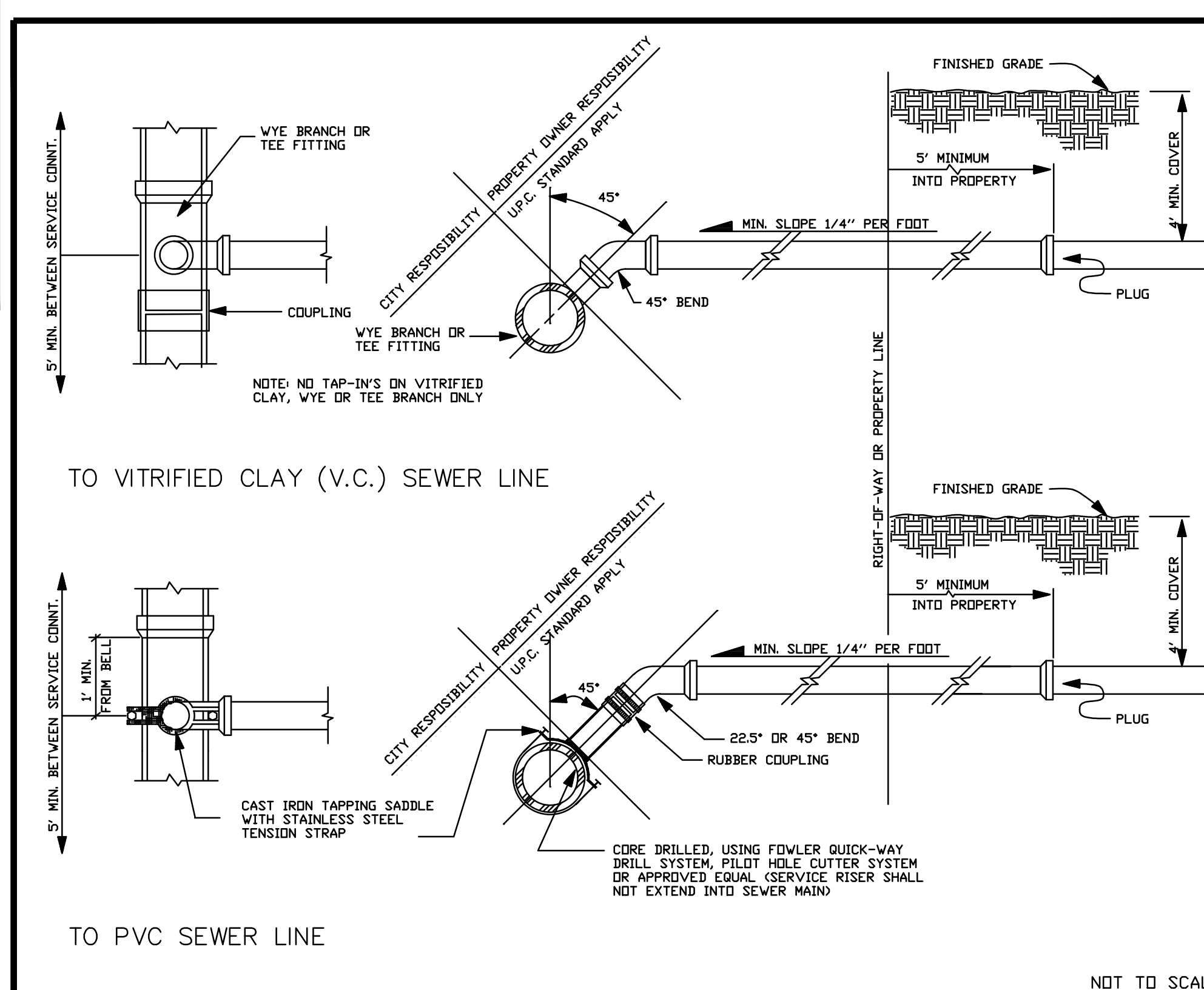
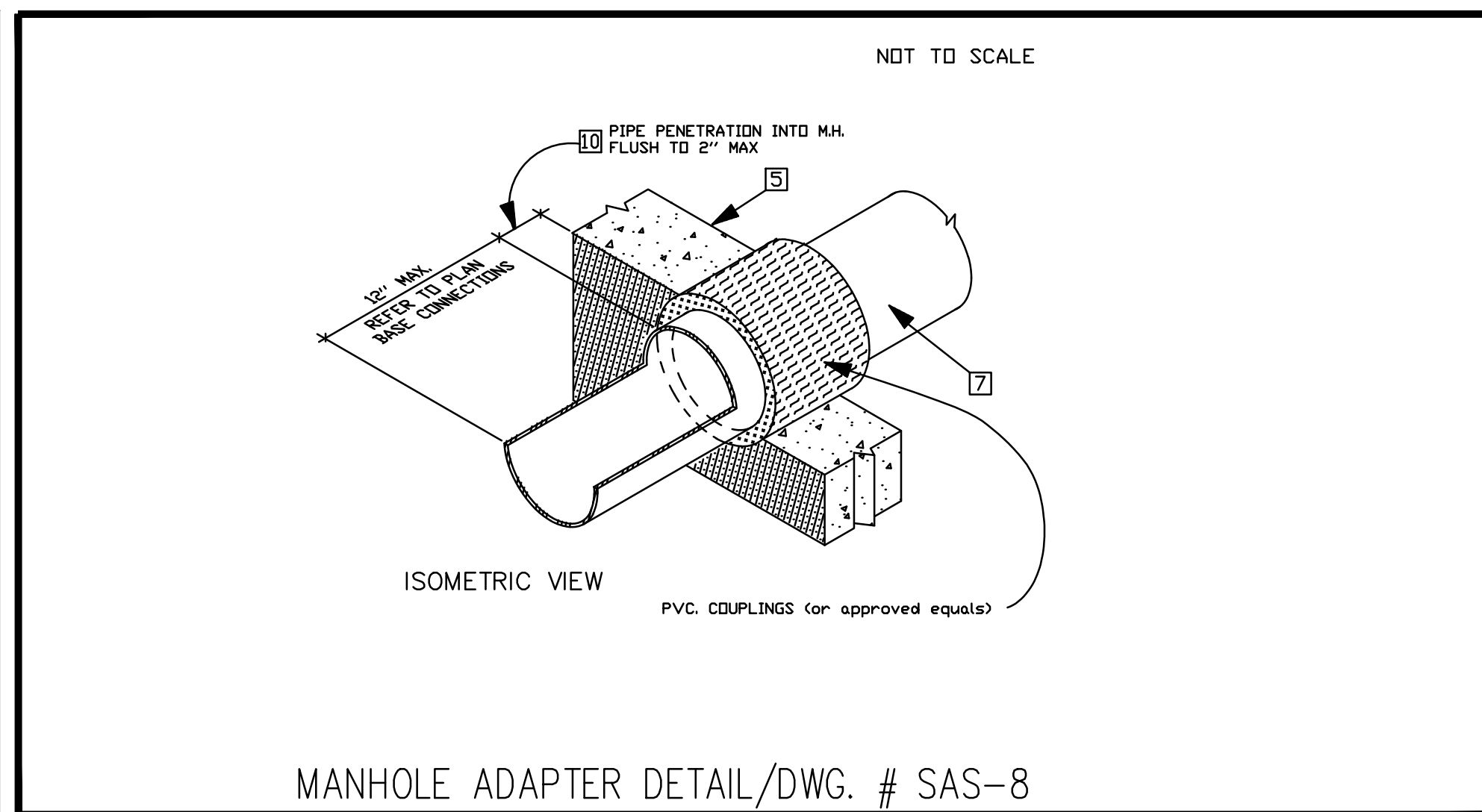
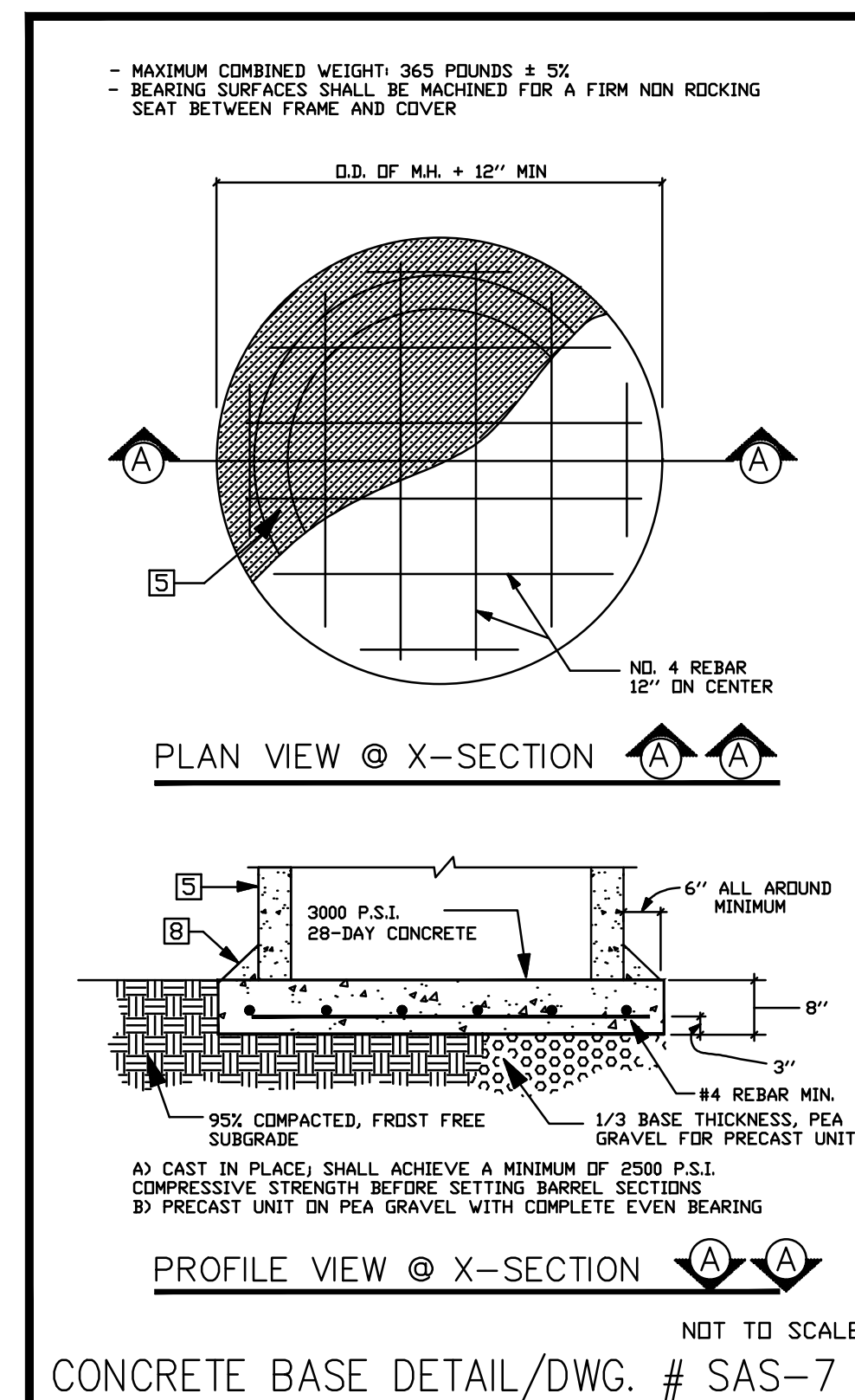
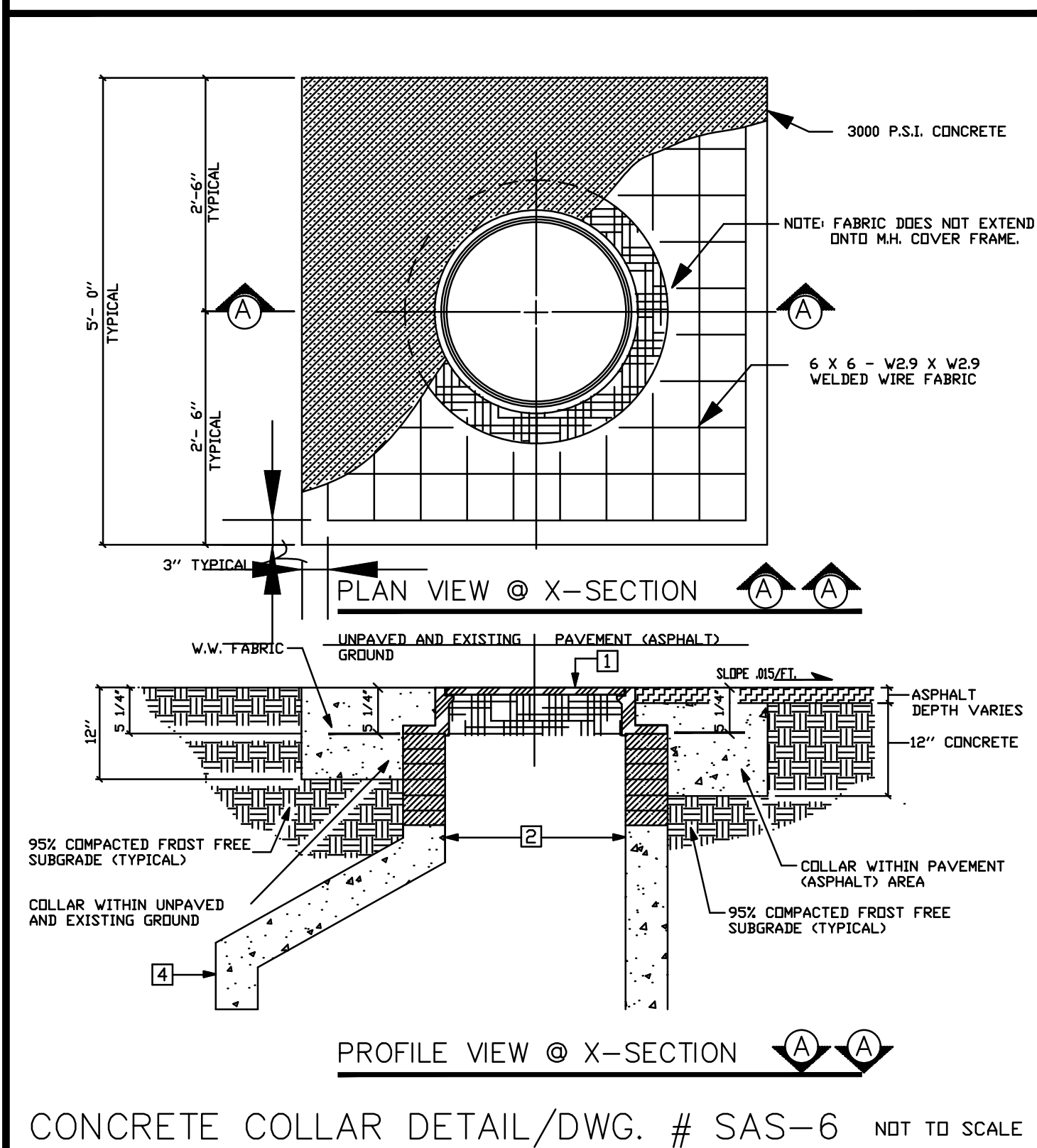
- I-1 LAYING PIPE: AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.
  - A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.
  - B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.
- I-2 MANHOLE CONSTRUCTION:
  - A. BASE:
    1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE
    2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING
  - B. PRECAST BARREL:
    1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL
    2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.
    3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.
- I-3 EXCAVATION AND BACKFILL: AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

## CONSTRUCTION MATERIALS

- CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
  - A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
  - B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY:
    1. 4" THRU 12"(in) DIAMETER, ASTM D-3034 OR ASTM F-789 PIPE, MINIMUM PS-46 STRENGTH, SDR-35 OR EQUAL
    2. LARGER THAN 15" (IN.) DIAMETER: ASTM F 678 VOL. OR 04.
  - C. HDPE PIPE PER ASTM D-1248 CLASS III WHEN APPROVED BY WATER QUALITY DIVISION ENGINEER.
  - D. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1390 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKED AS "YELLOWLINE" AND PRODUCED BY CERTAINTED CORPORATION, OR APPROVED EQUAL.
  - E. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
  - F. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
  - G. SERVICE CONNECTIONS:
    1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.
    2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS; FOWLER "QUICKWAY", GENCO, HERSEY "PHONE-IN" OR APPROVED EQUAL.
  - H. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701-35 NM APWA.
- CM-2 MANHOLES:
  - A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
  - B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
  - C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL: 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
  - D. FRAMES AND COVERS:
    1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM APWA CLASS 30B.
    2. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
    3. MINIMUM COVER WEIGHT: 165 POUNDS
    4. MINIMUM COMBINED WEIGHT: 365 POUNDS
    5. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
    6. COATING: NONE
    7. COVER LETTERINGS: SANTA FE, N.M. SANITARY SEWER
    8. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.
    9. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.
- CM-3 CONCRETE ENCASEMENT:
  - A. REQUIREMENTS:
    1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
    2. WHEN VITRIFIED CLAY CROSSES AN ARROYO.
    3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
    4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
    5. THE SEWER LINE SHALL BE ENCASED IN CONCRETE 6"(IN.) THICK AS DETAILED, AND EXTEND AT LEAST 10'(FT.) ON EACH SIDE OF THE WATER LINE.

## FIELD QUALITY CONTROL

- FQC-1 TESTING AND INSPECTION:
  - A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
  - B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
  - C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.
- FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN:
  - A. LINE: 0.20 FOOT
  - B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.
- FQC-3 LEAKAGE TEST: AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.
- FQC-4 TELEVISION INSPECTION: CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.
- FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.



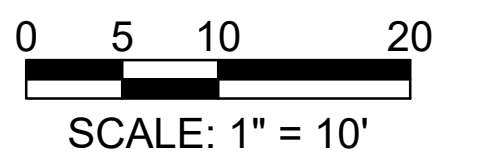
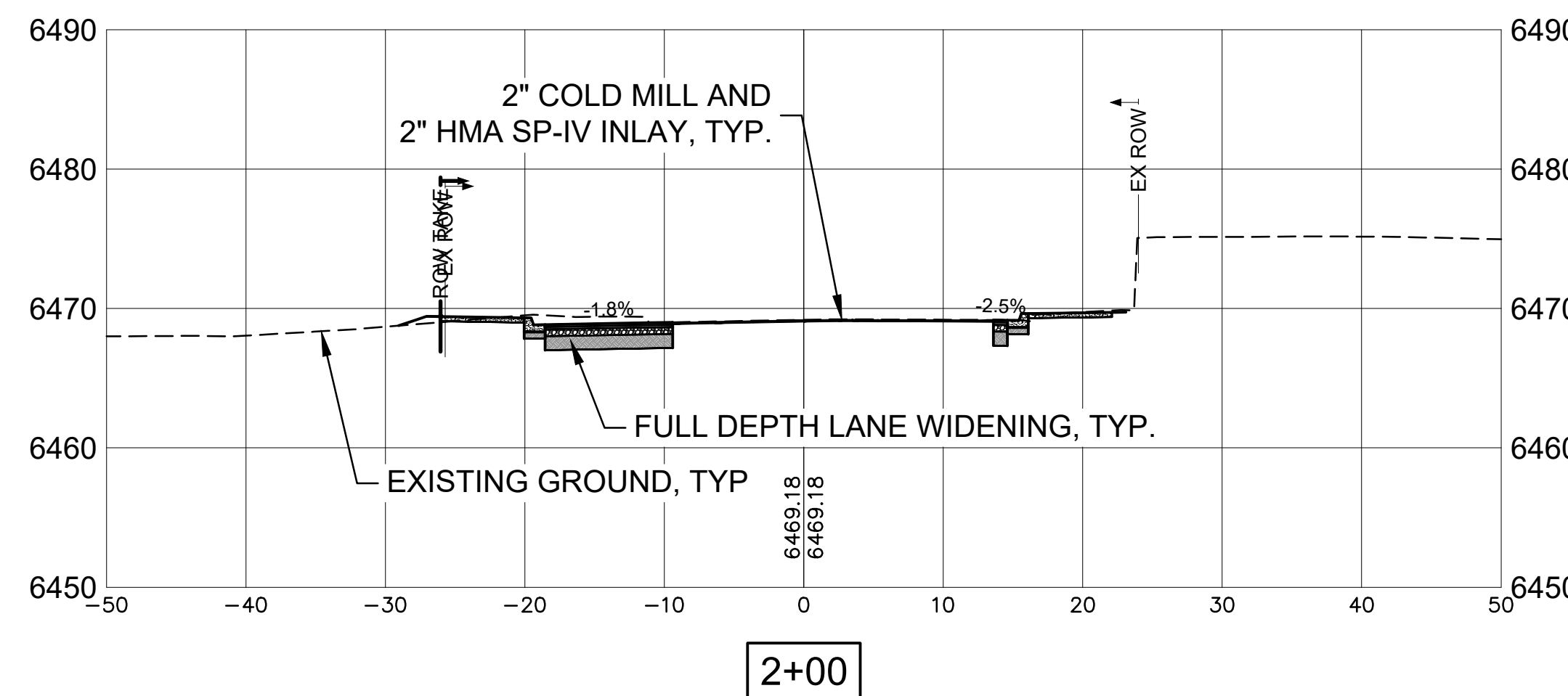
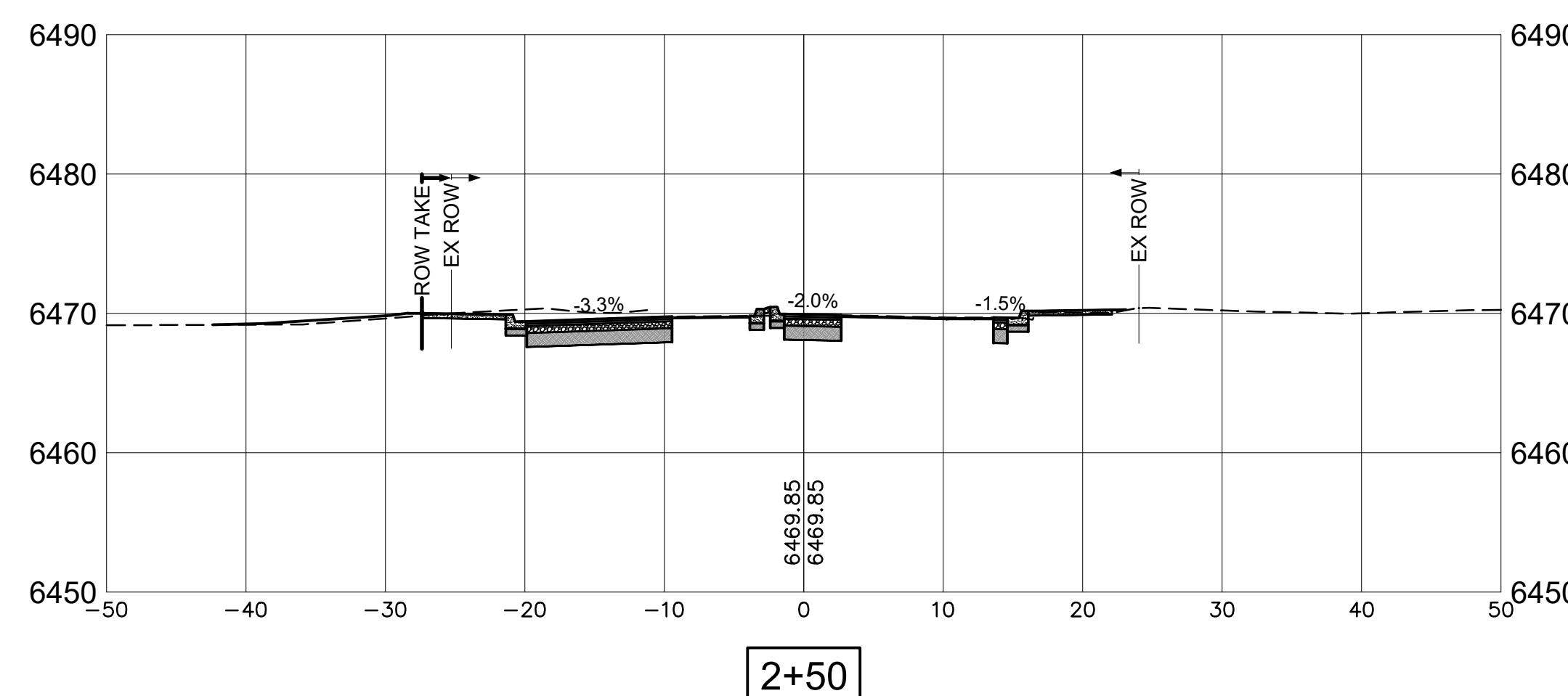
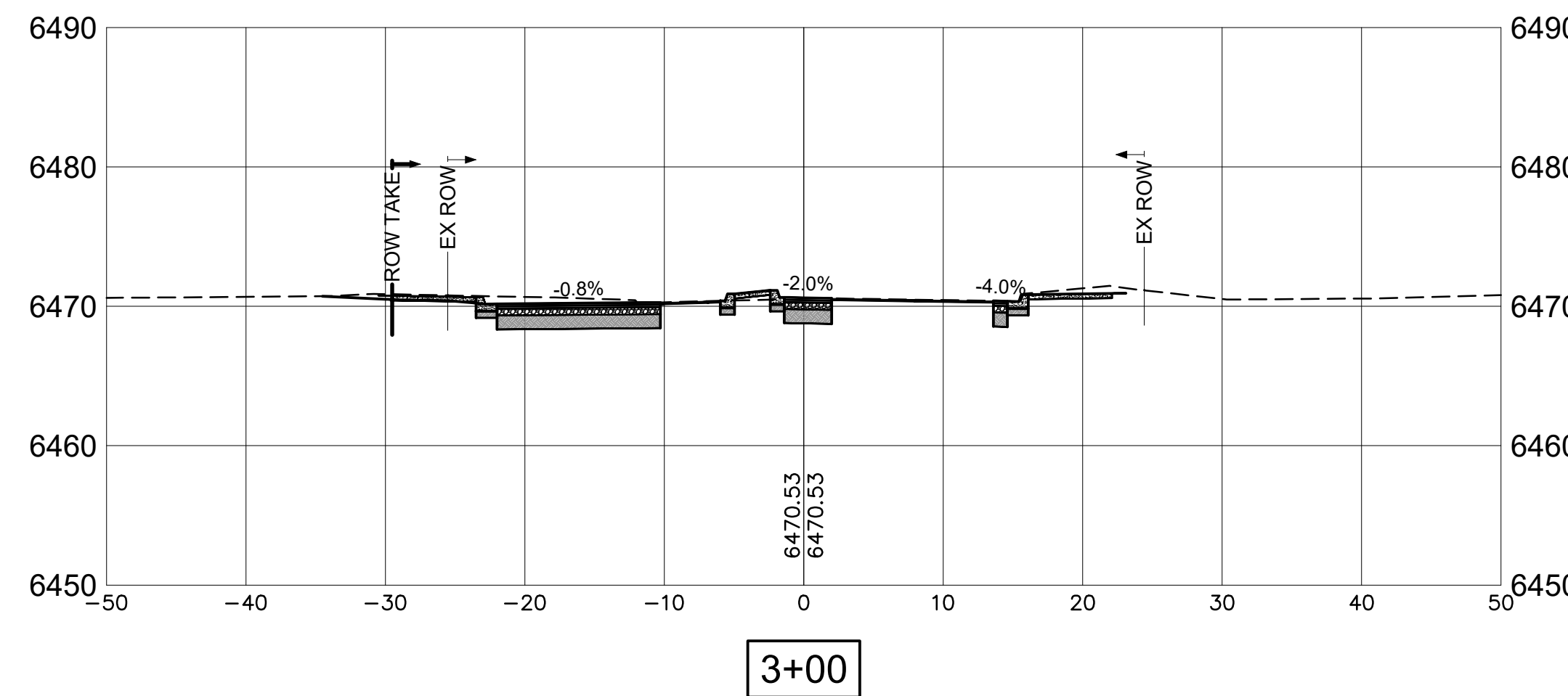
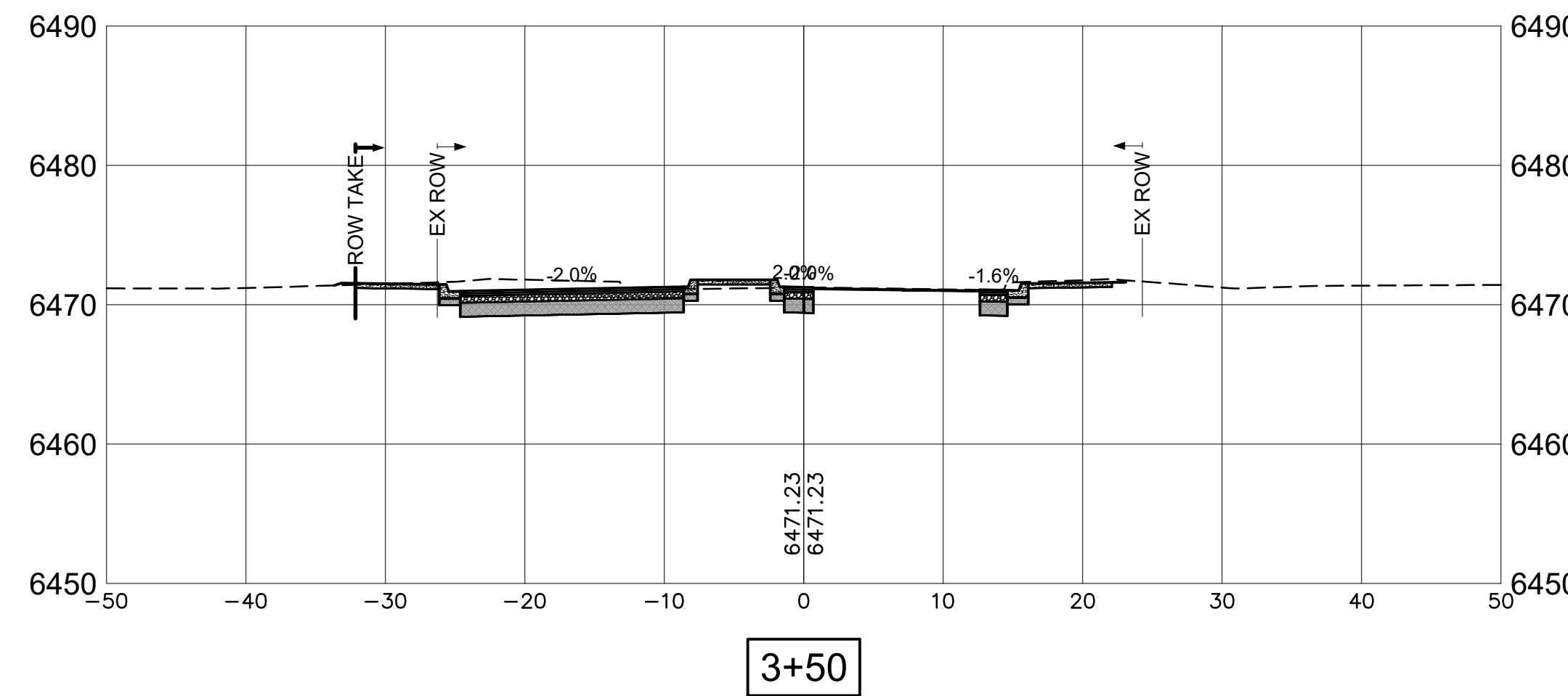
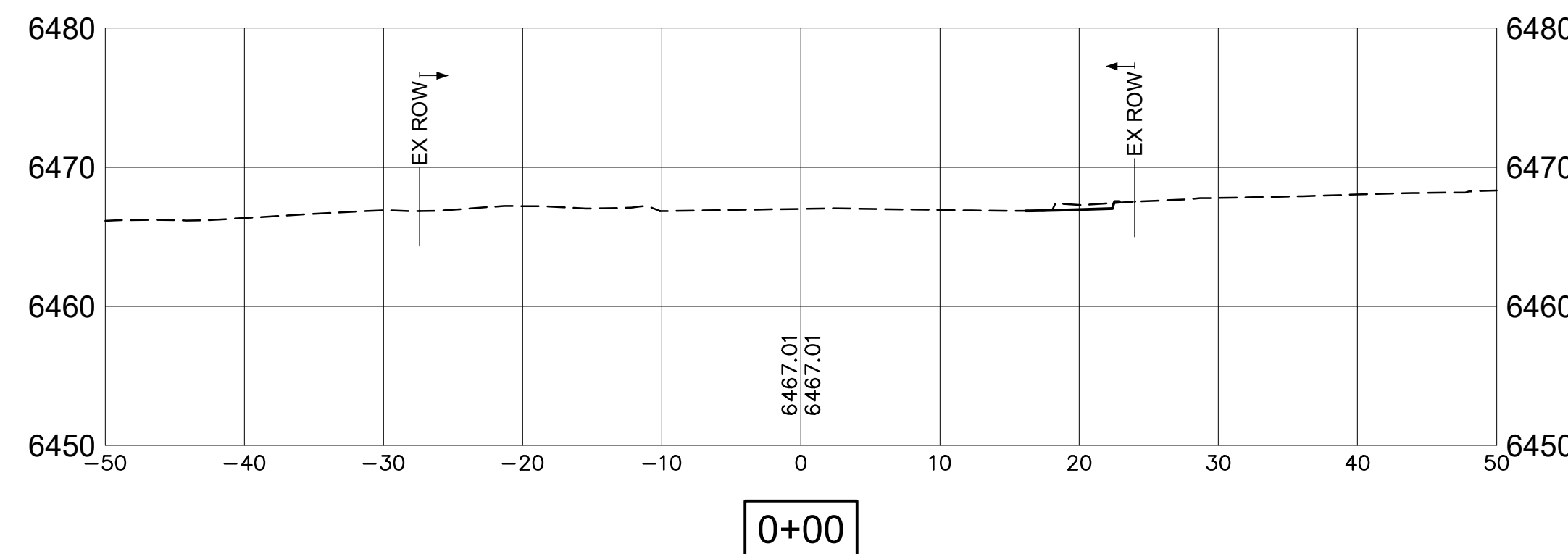
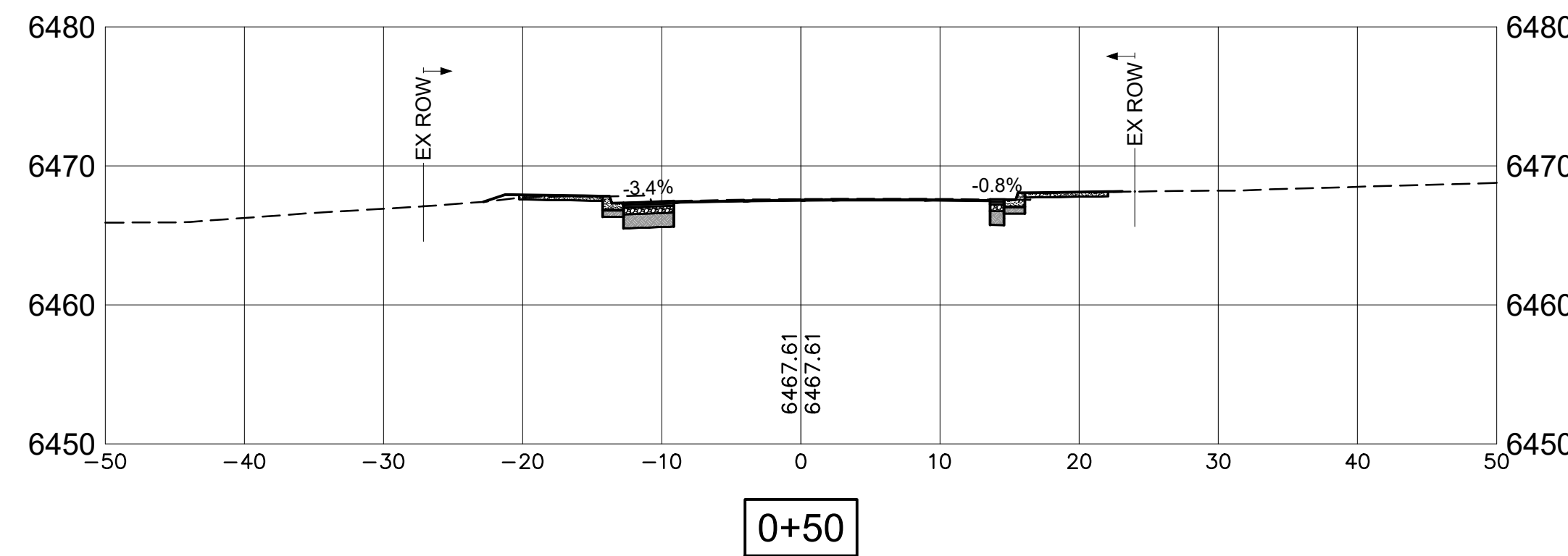
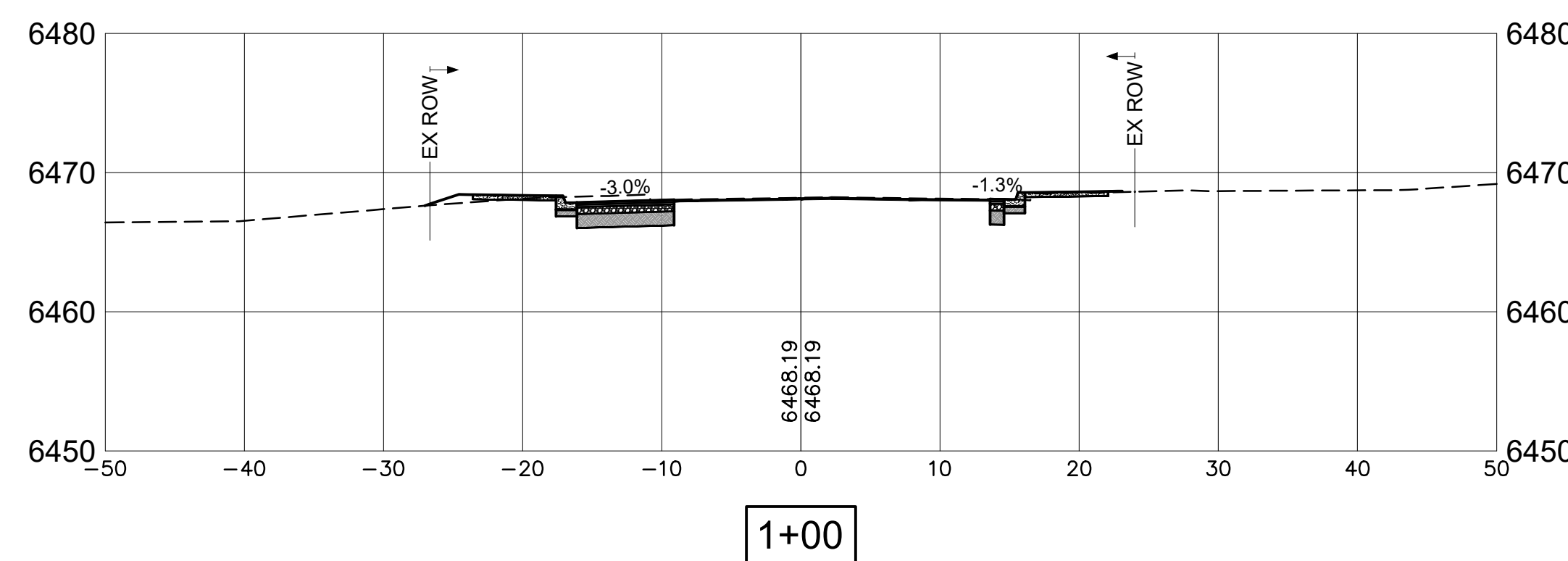
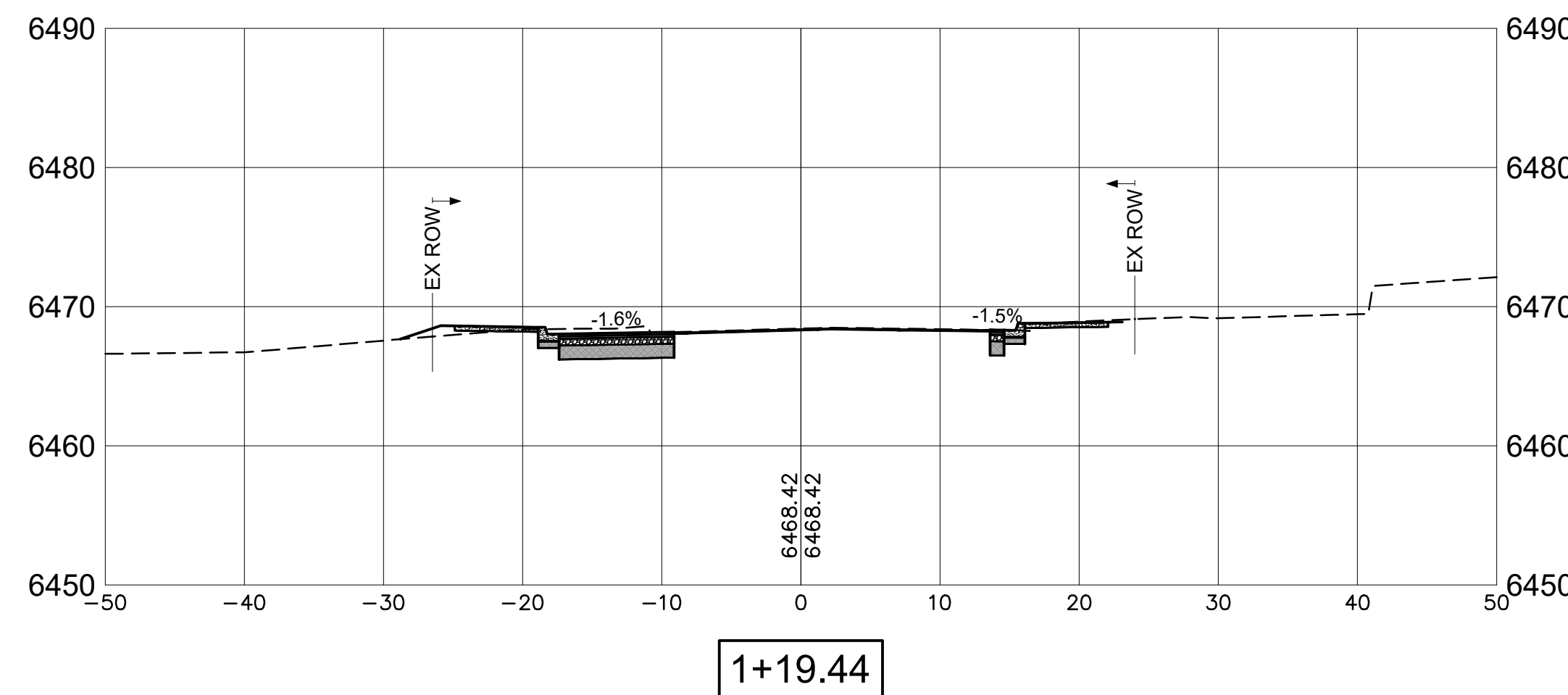
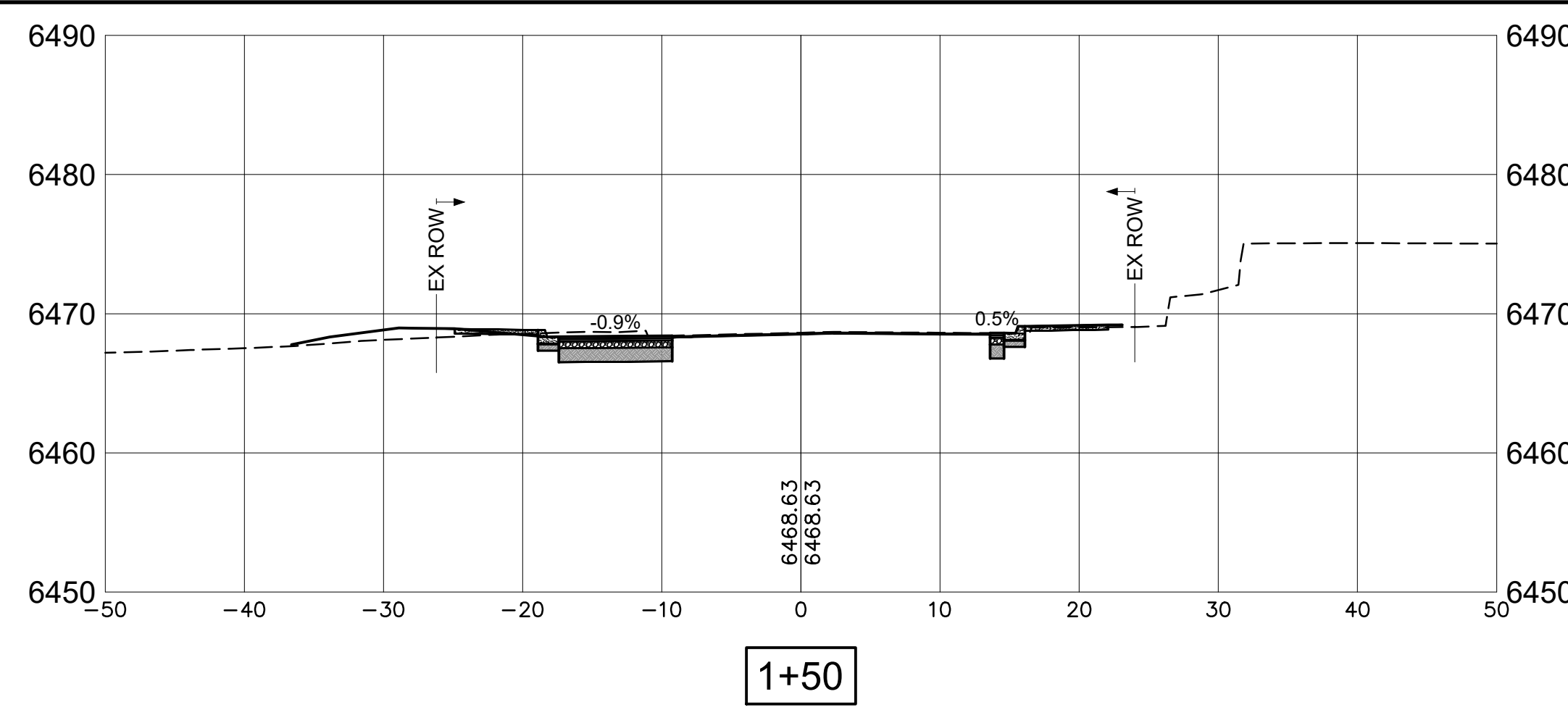
CITY OF SANTA FE  
WATER QUALITY DIVISION

TITLE: SANITARY SEWER  
STANDARD CONSTRUCTION DETAILS

DATE: JULY 1992	REVISIONS	FILE # : E:\AUTO\DWG\SCD2-4
DRAWN BY: G. CHAVEZ	1-8-92	
CADD REVISION BY: G. CHAVEZ	12-10-92	
APPROVED BY: E. BROWN	11-16-94	
SHEET		12-9

SCD2-4 - 6/7/00





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REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE  
CIP# 853C

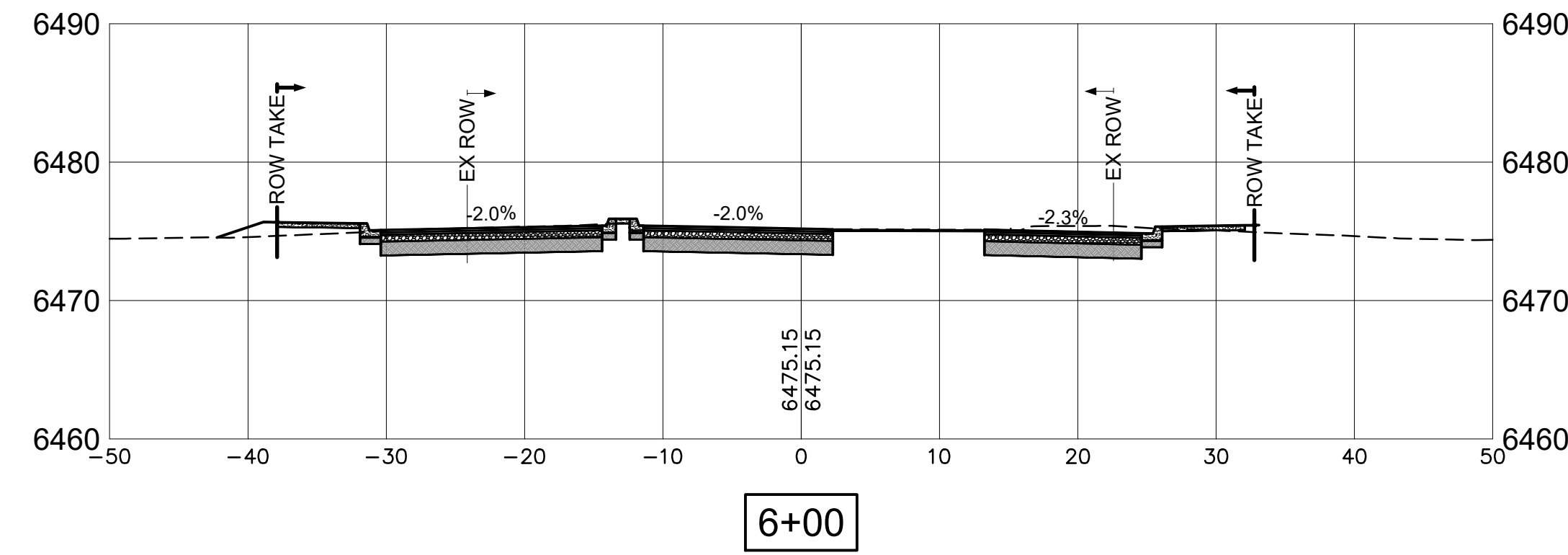
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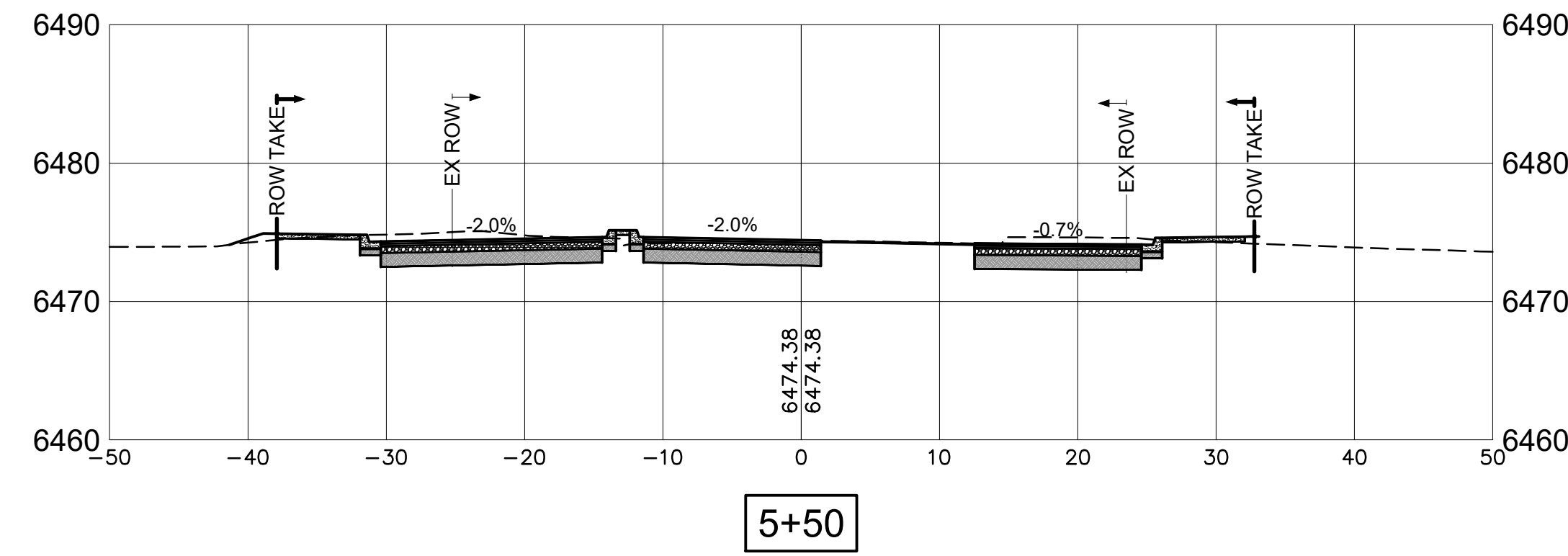
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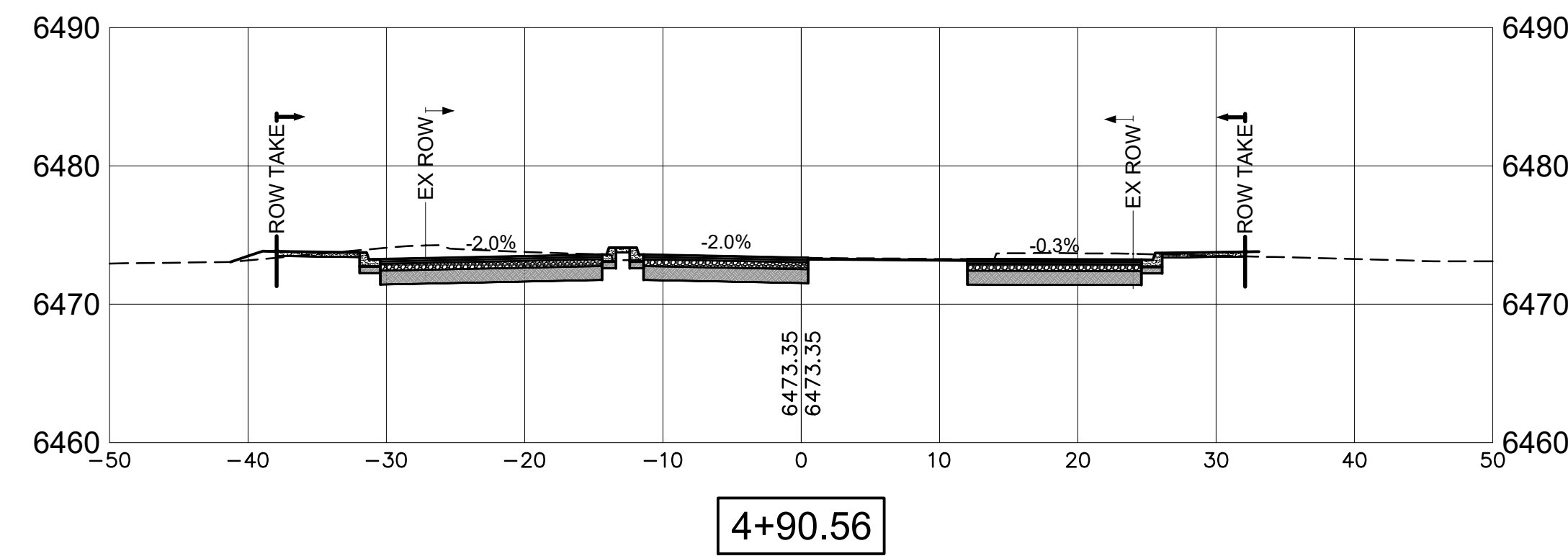




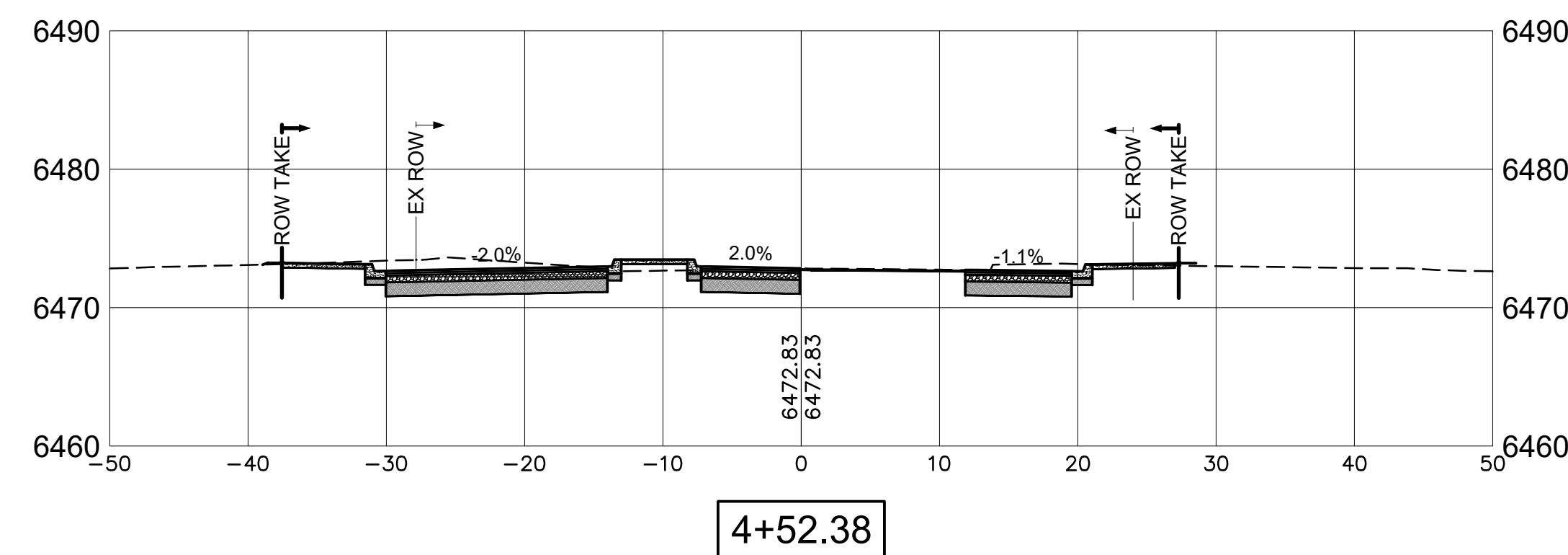
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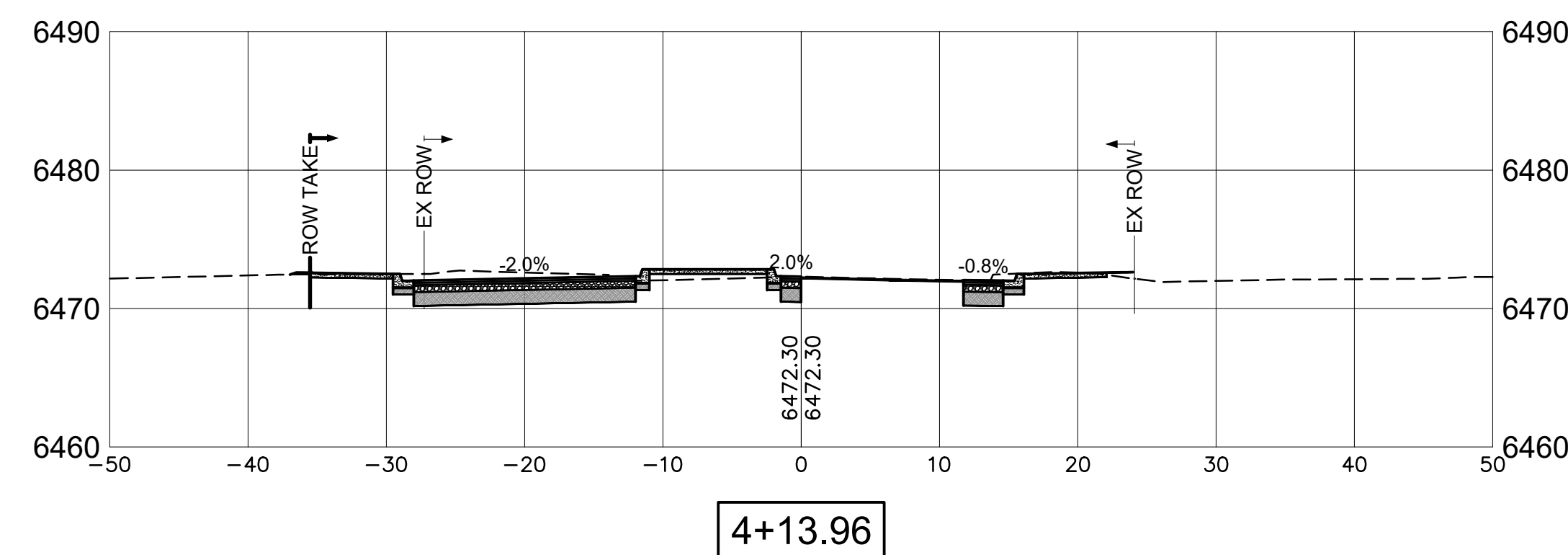
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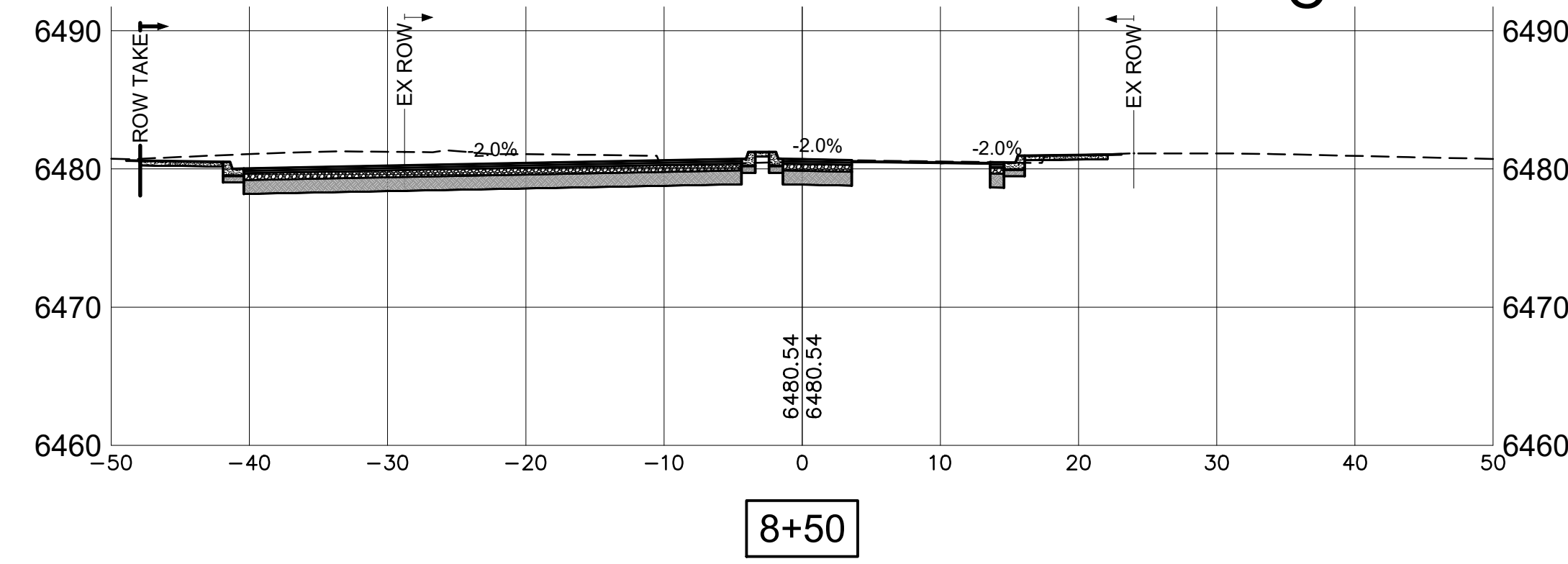
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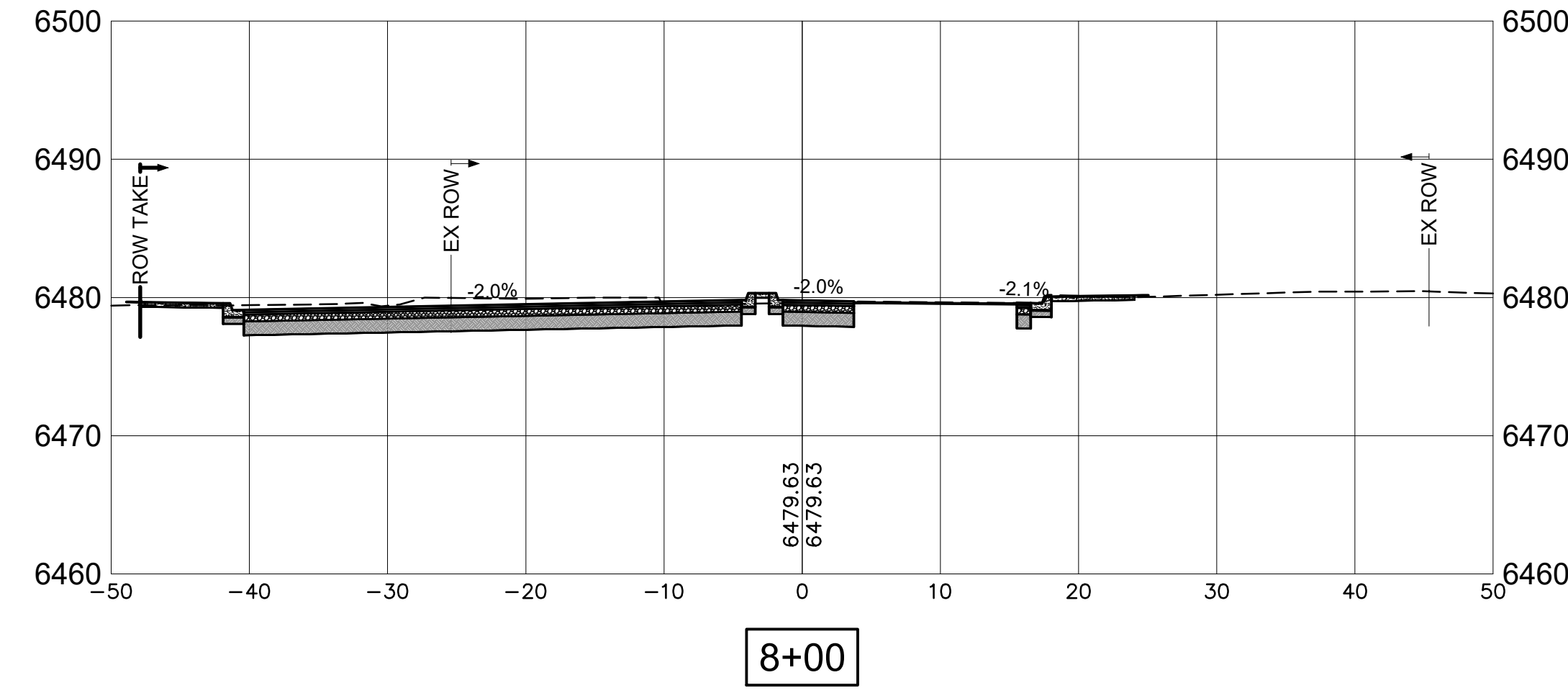
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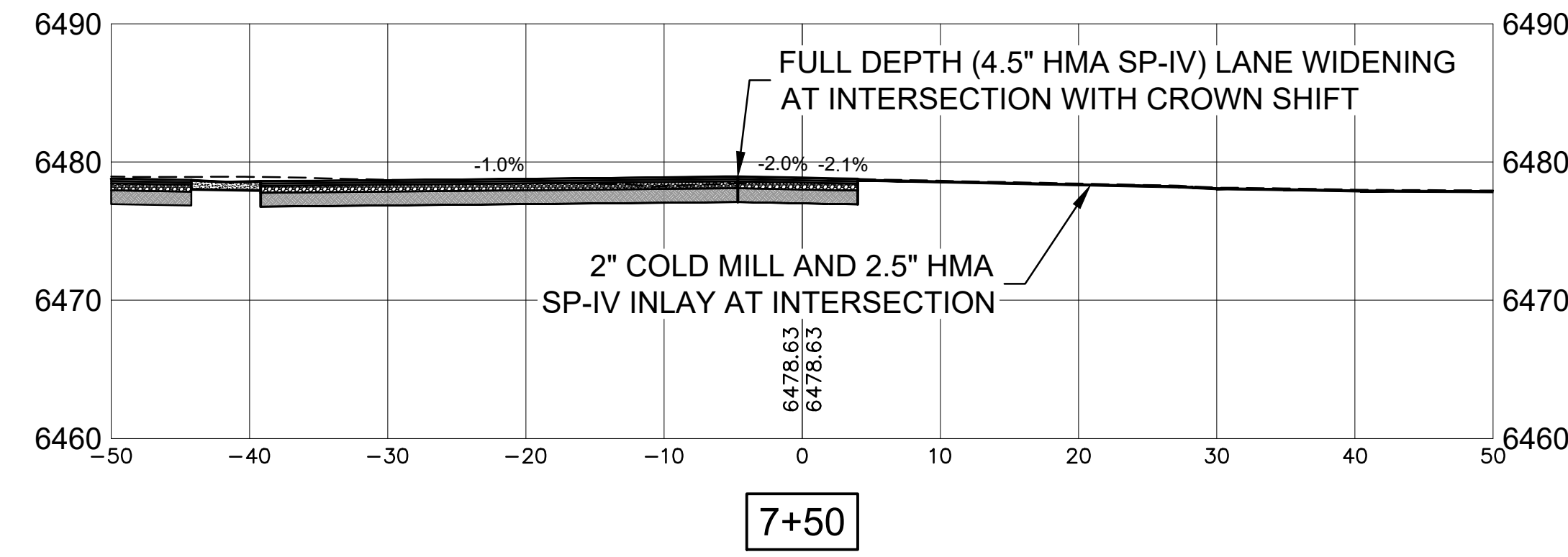
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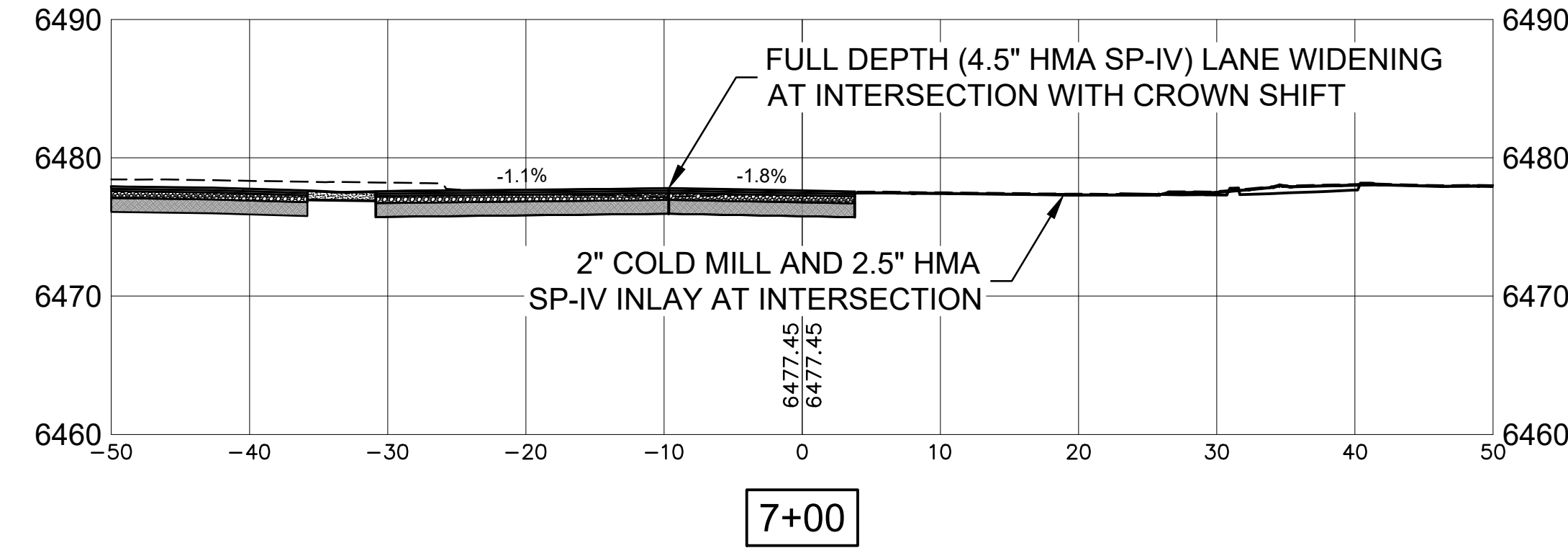
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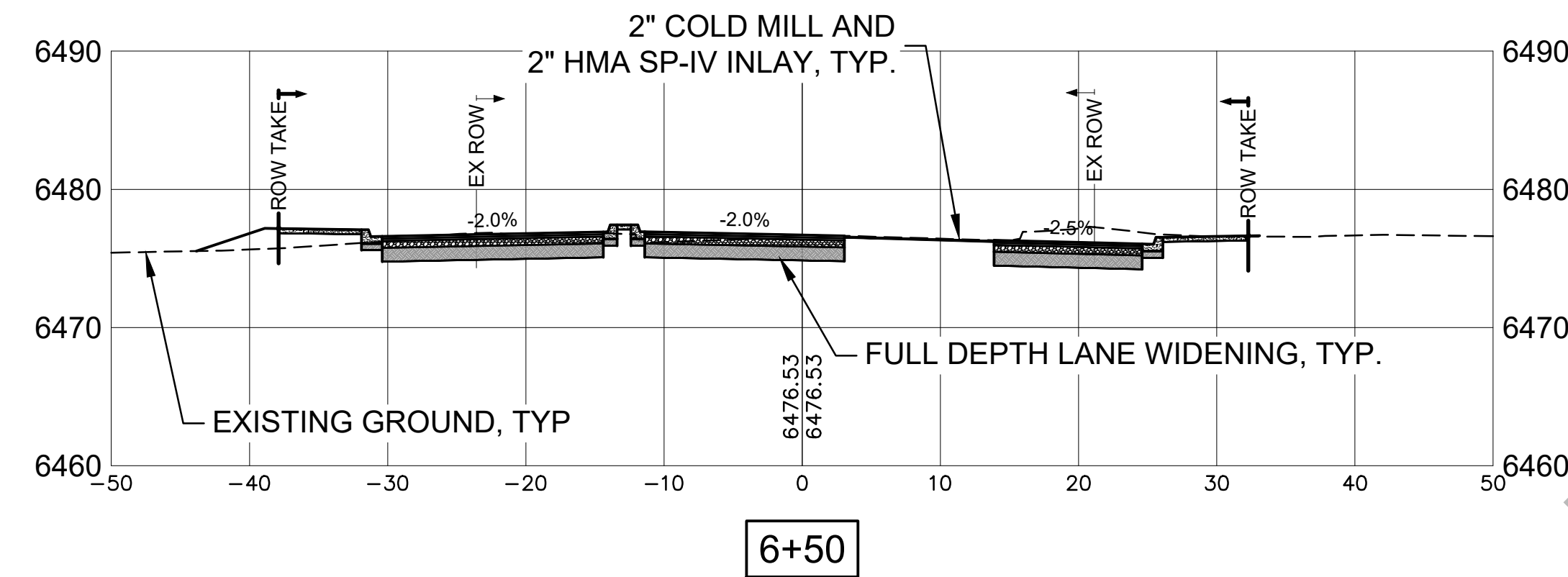
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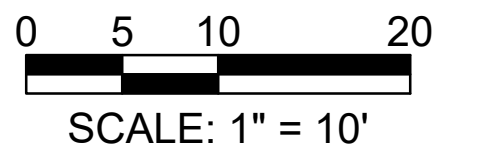
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7+00



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NO.	DESCRIPTION	DATE	BY
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CITY OF SANTA FE  
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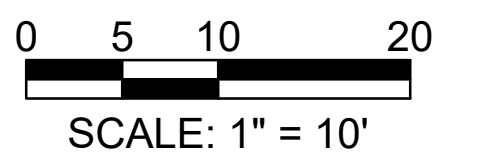
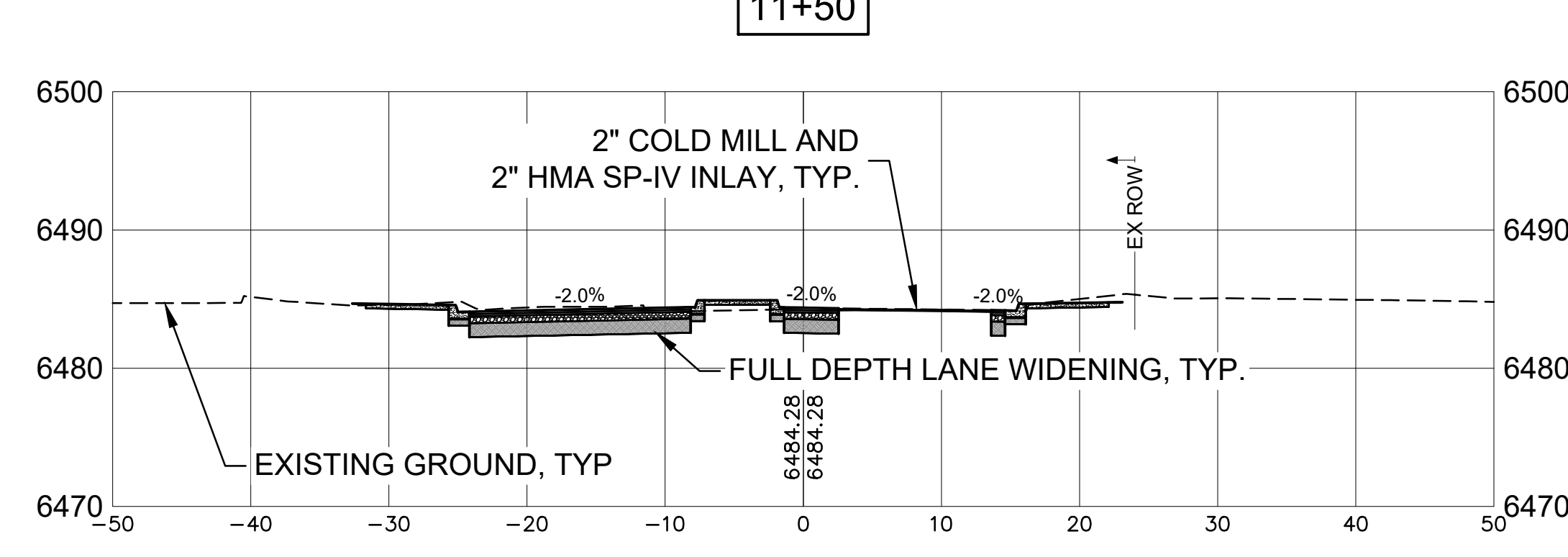
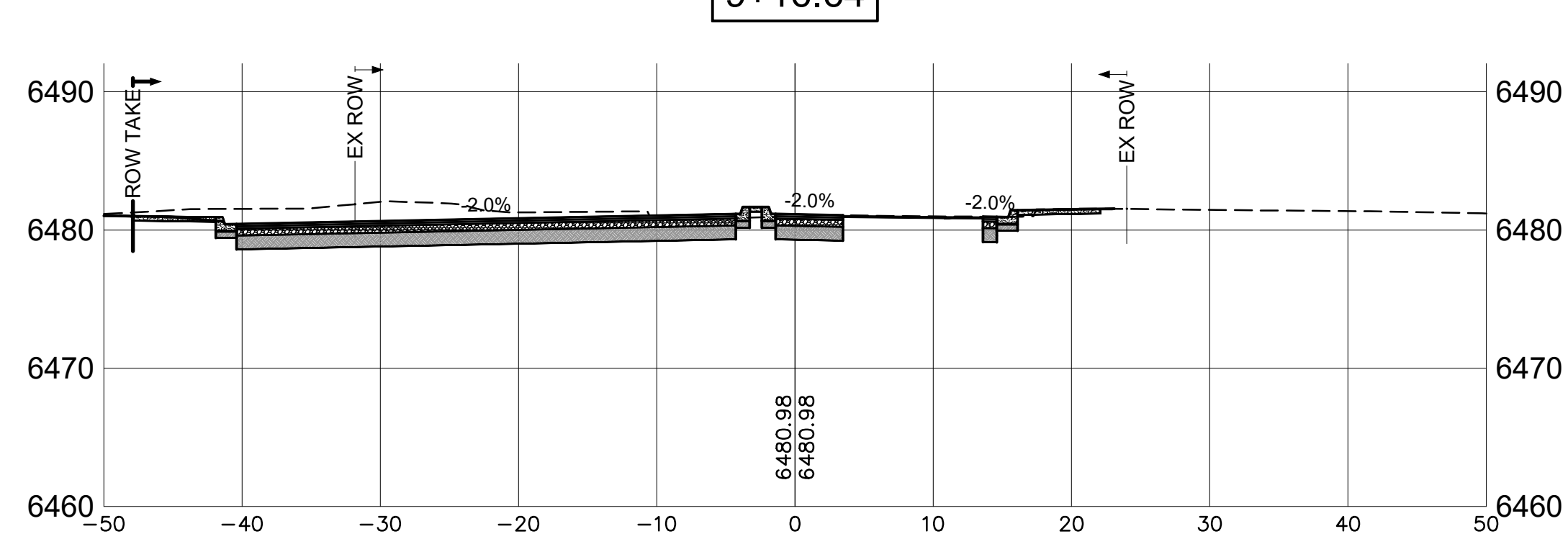
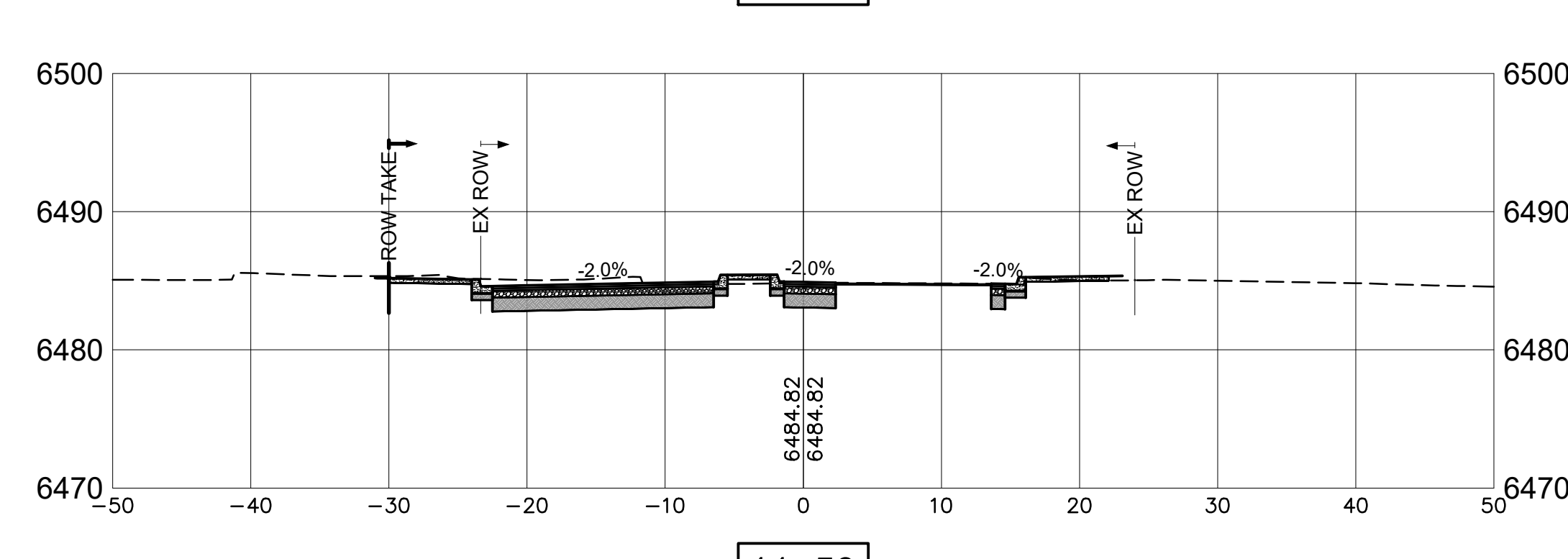
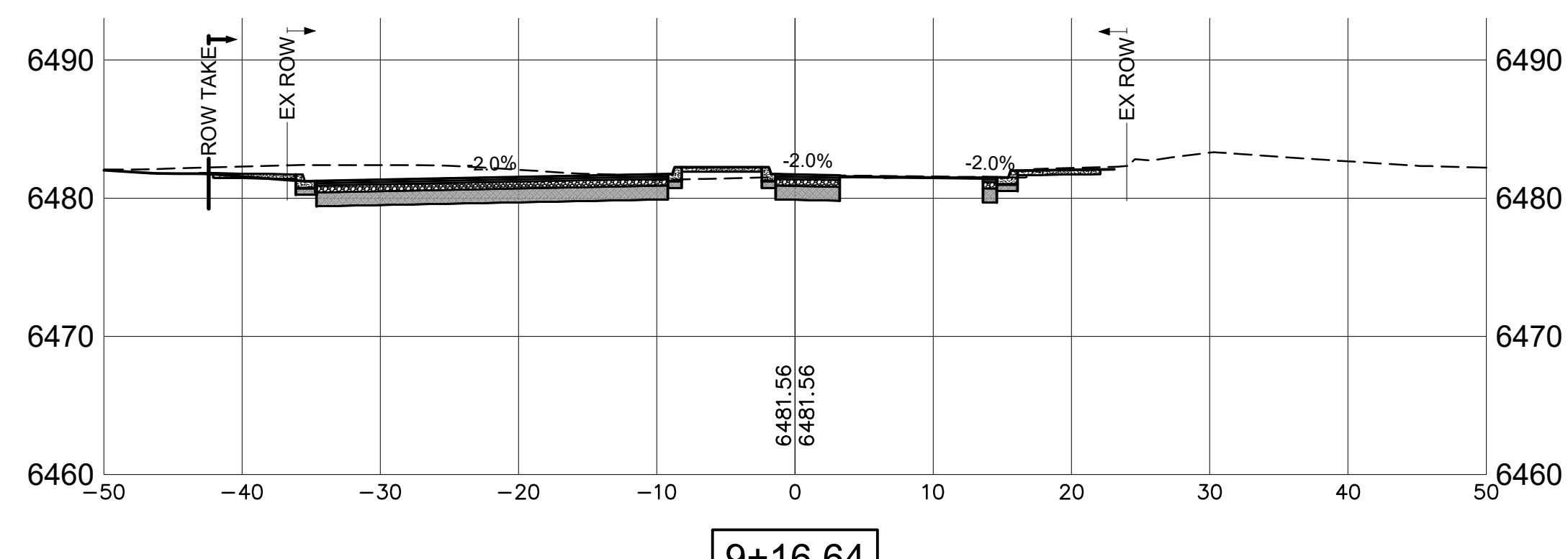
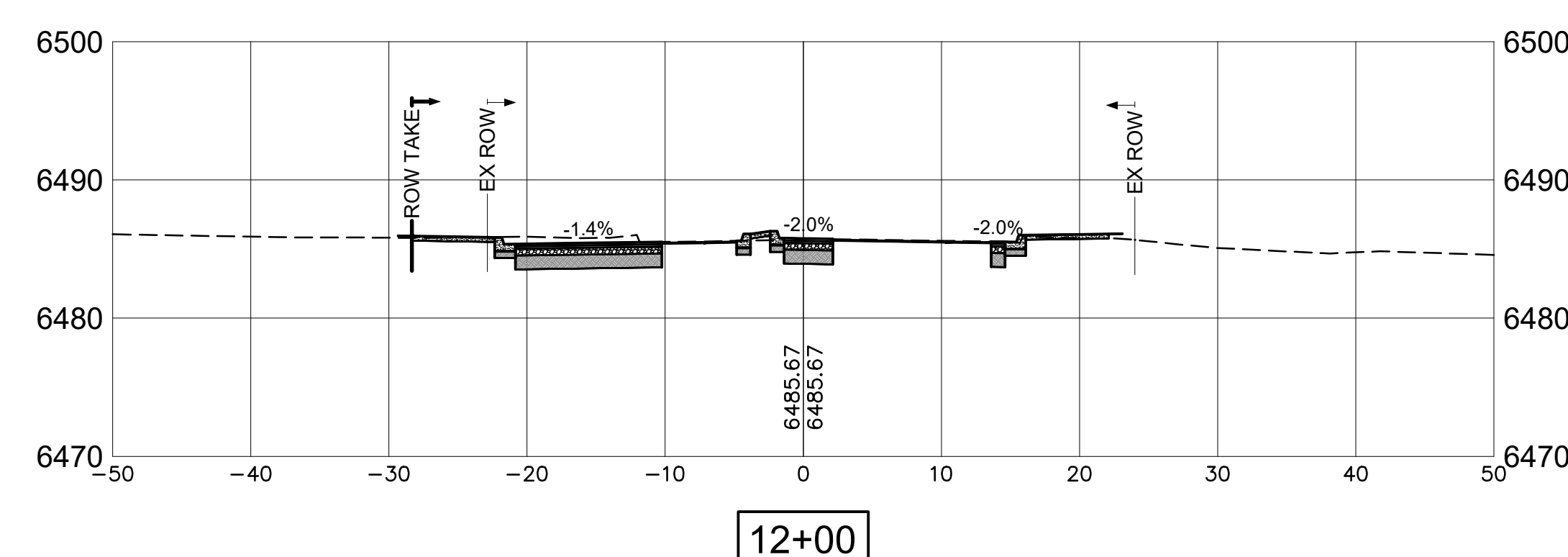
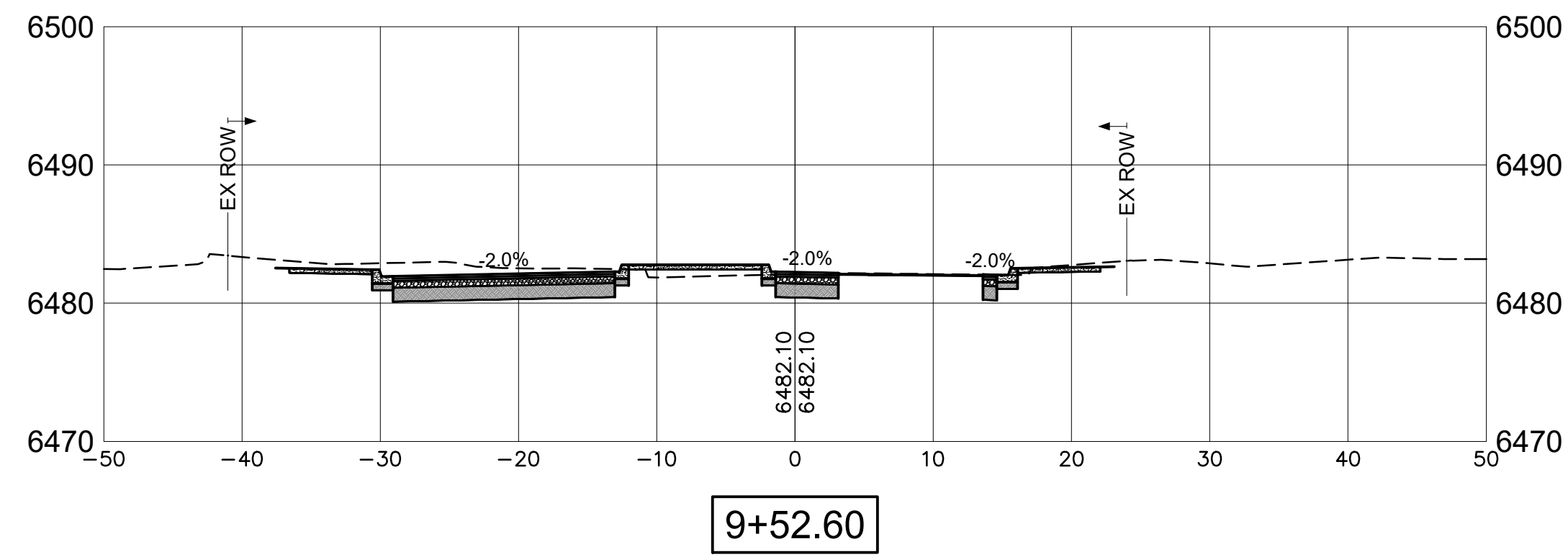
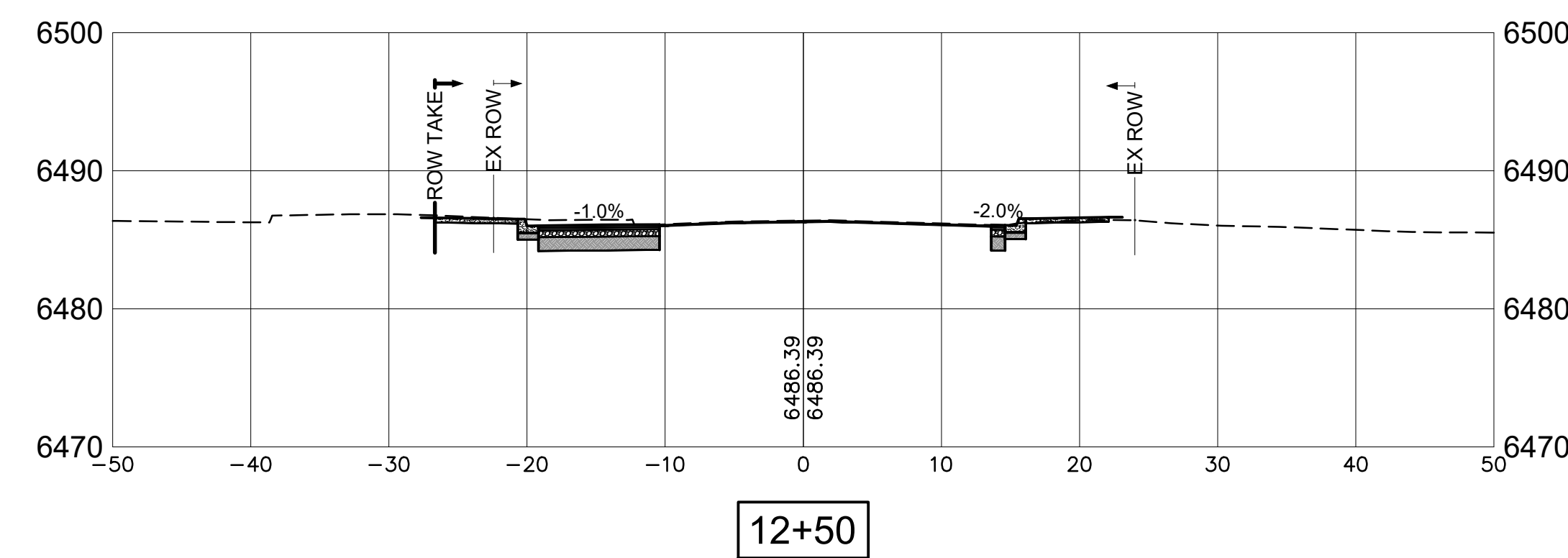
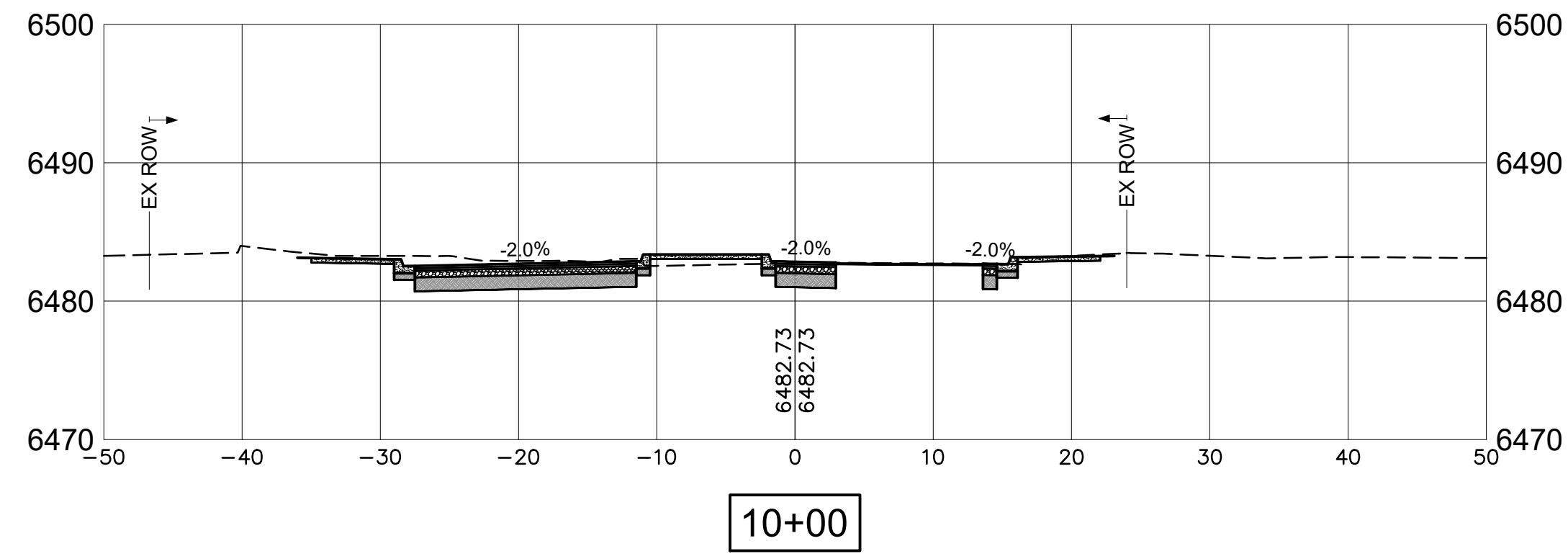
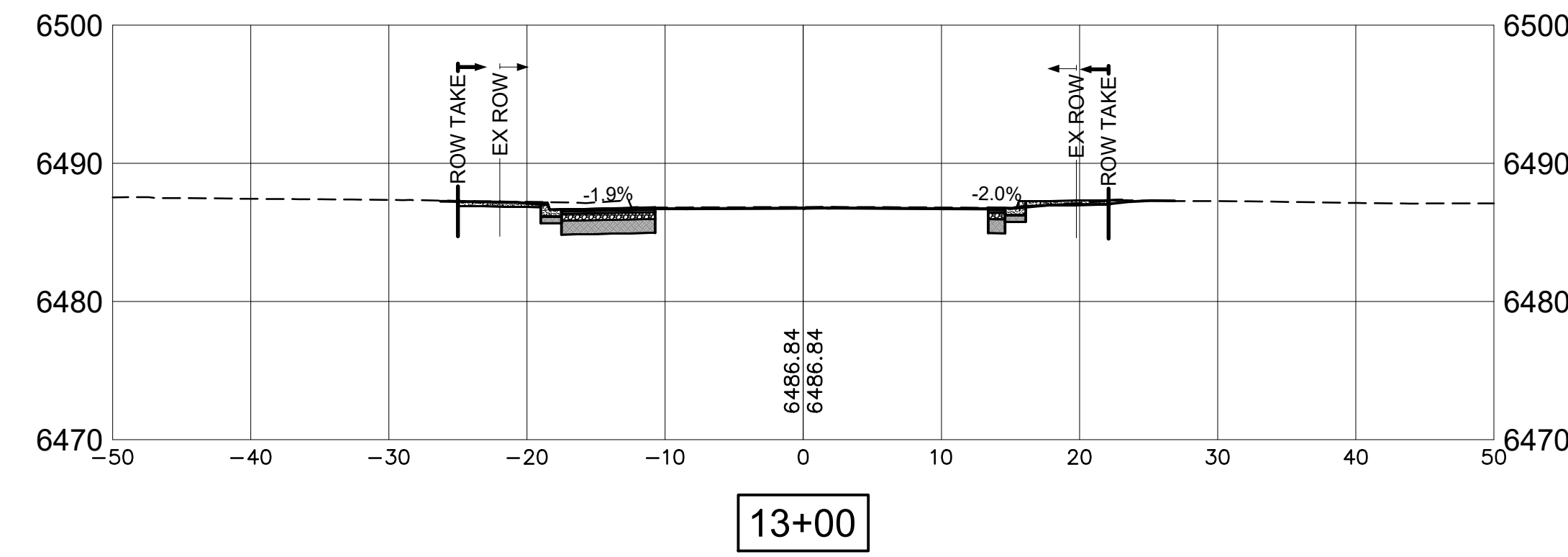
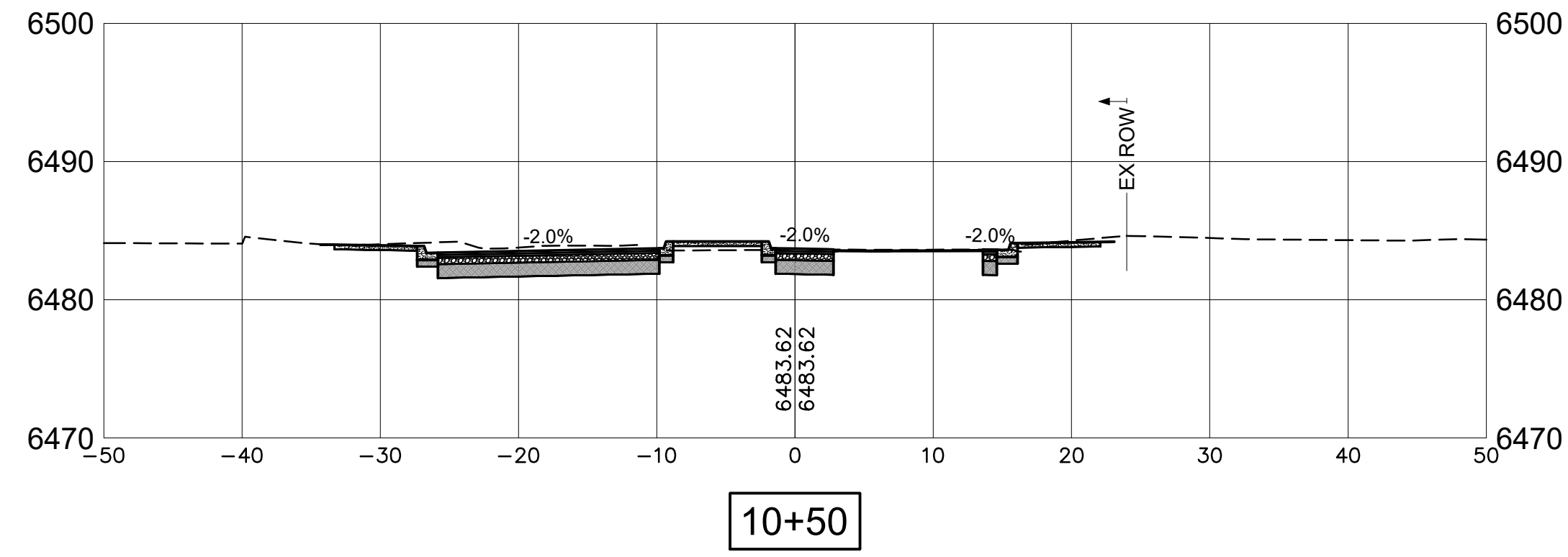
AGUA FRIA STREET AND  
SOUTH MEADOWS ROAD  
INTERSECTION IMPROVEMENTS

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DRAFT





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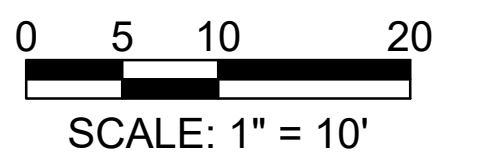
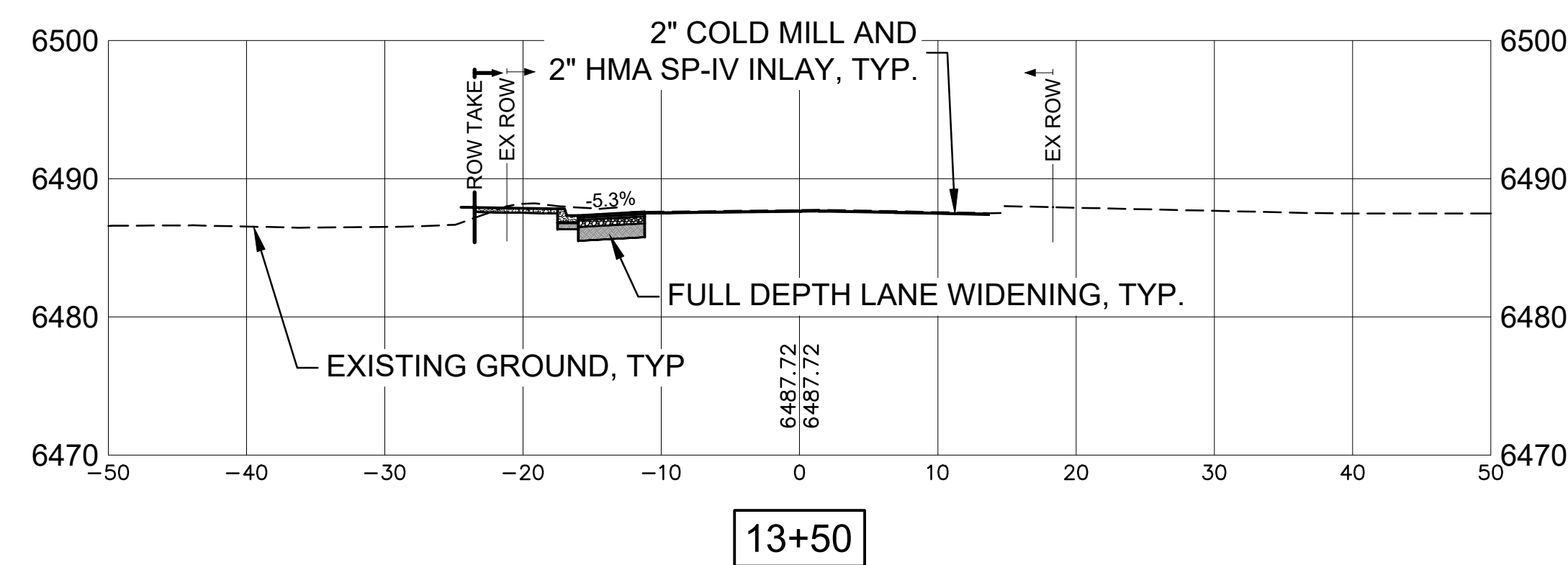
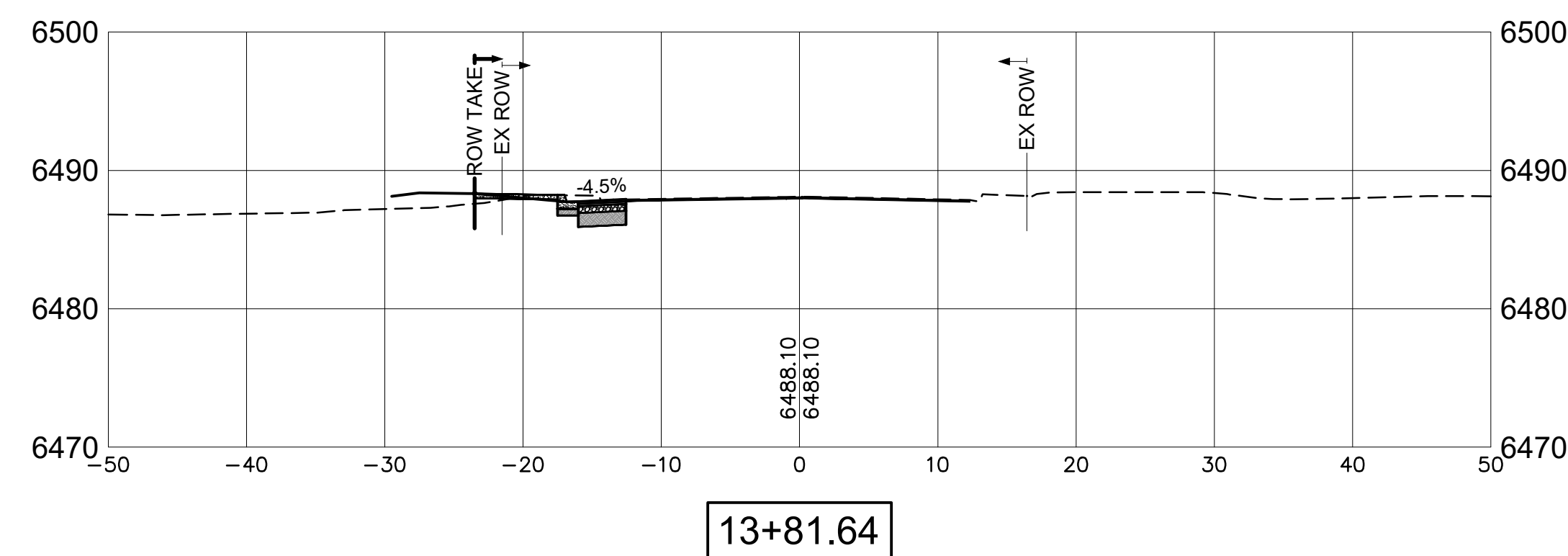
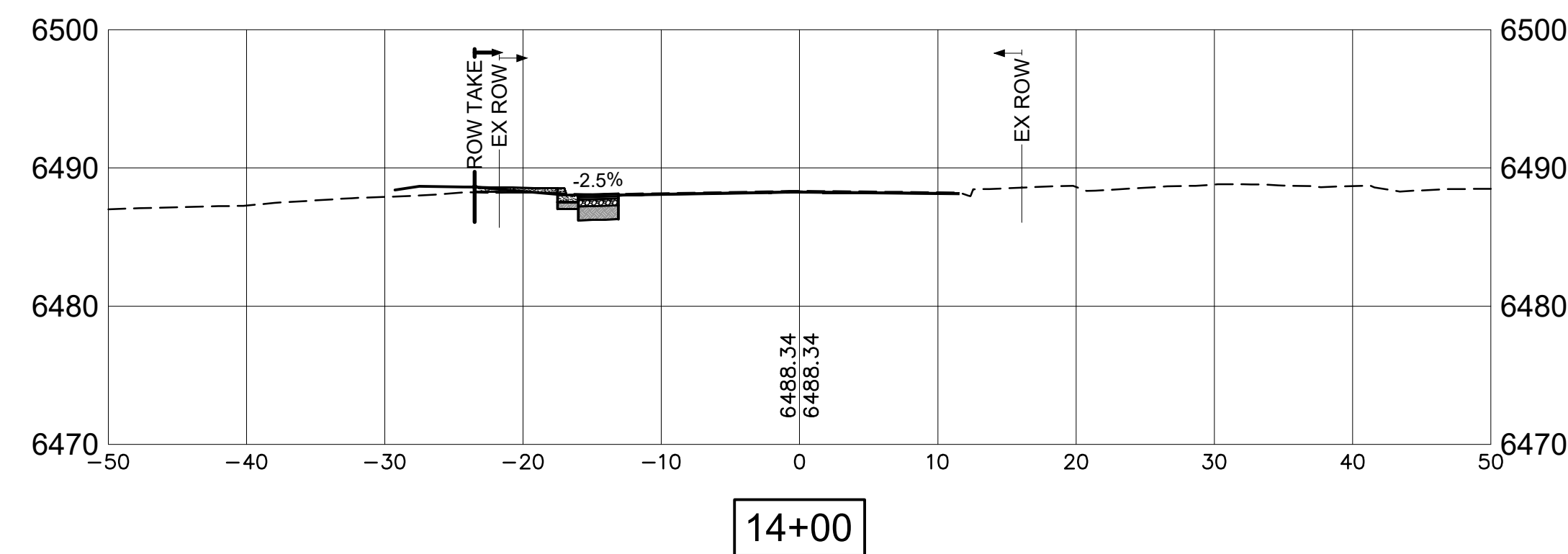
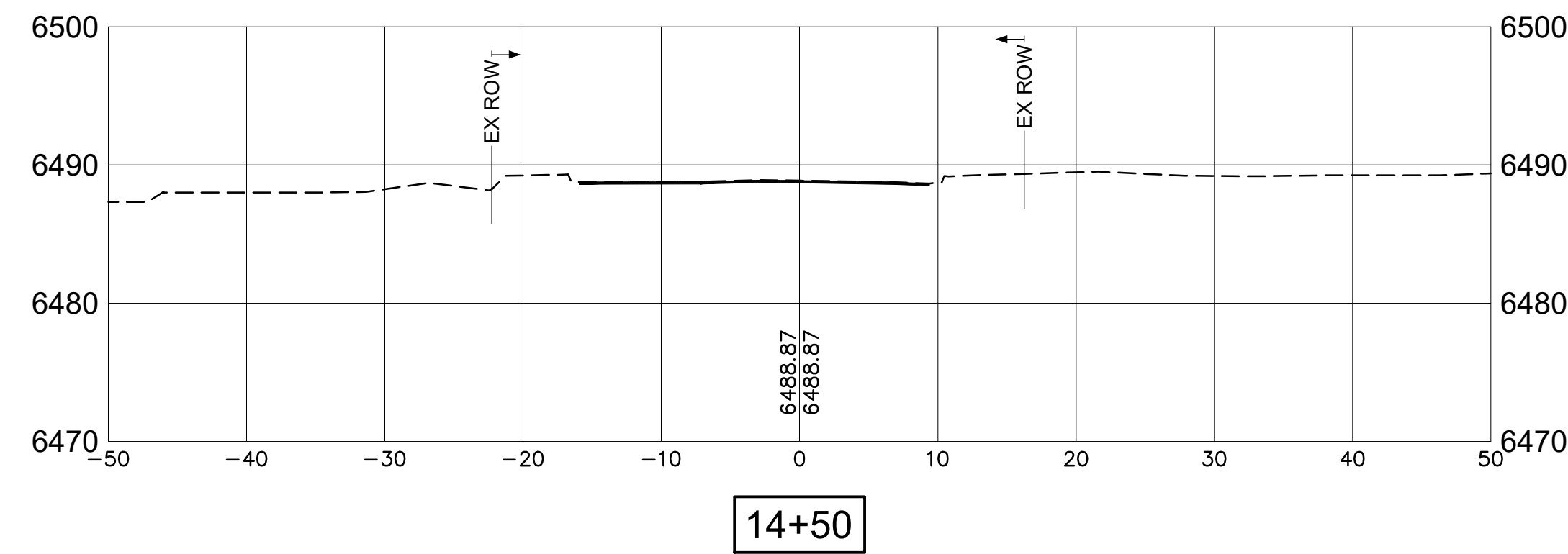
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ROADWAY CROSS SECTIONS –  
 AGUA FRIA STREET (CONT'D)

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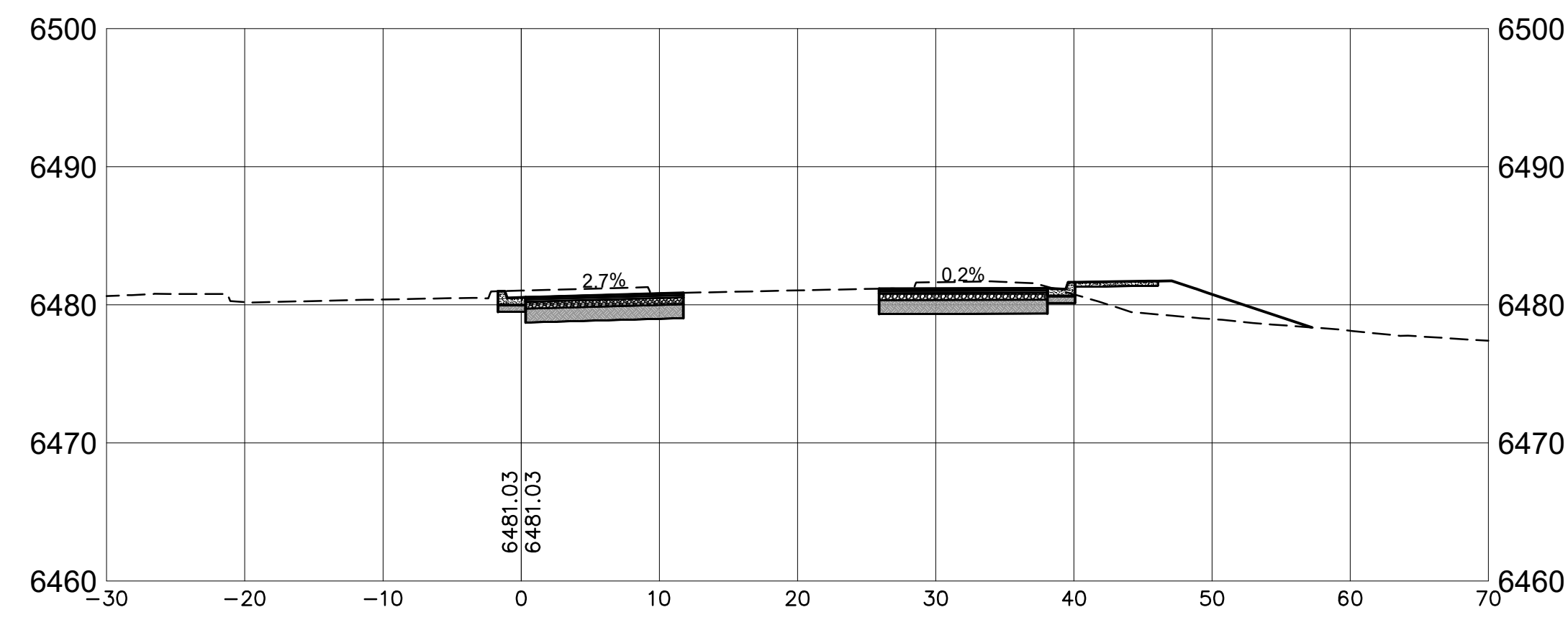
AGUA FRIA STREET AND  
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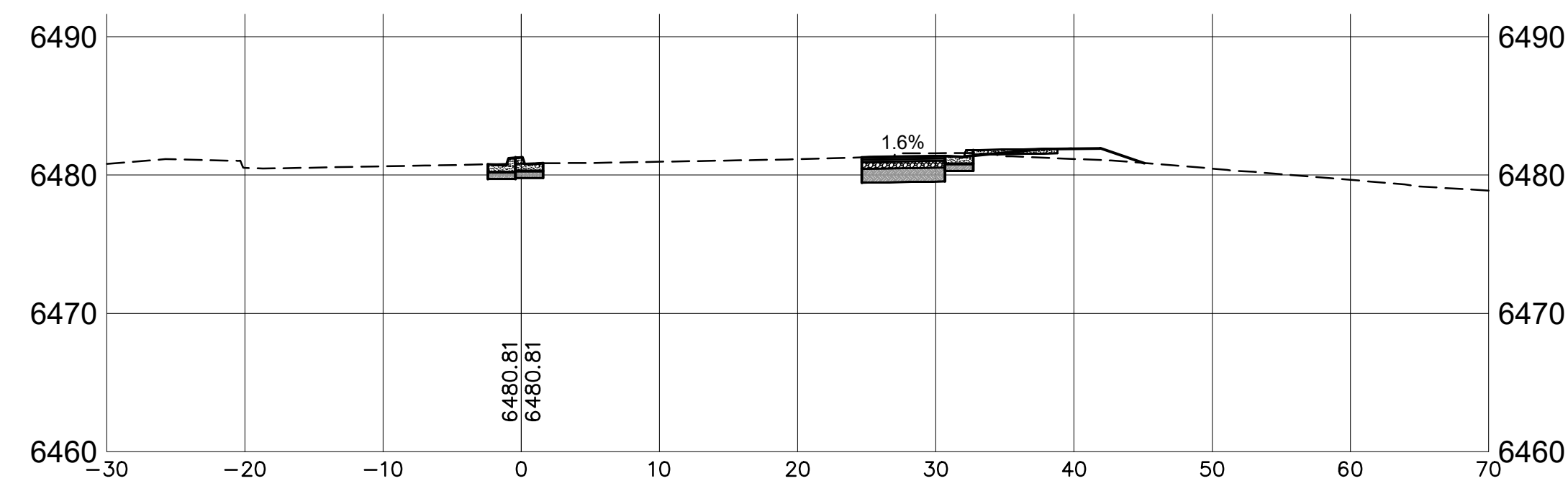
ROADWAY CROSS SECTIONS –  
AGUA FRIA STREET (CONT'D)

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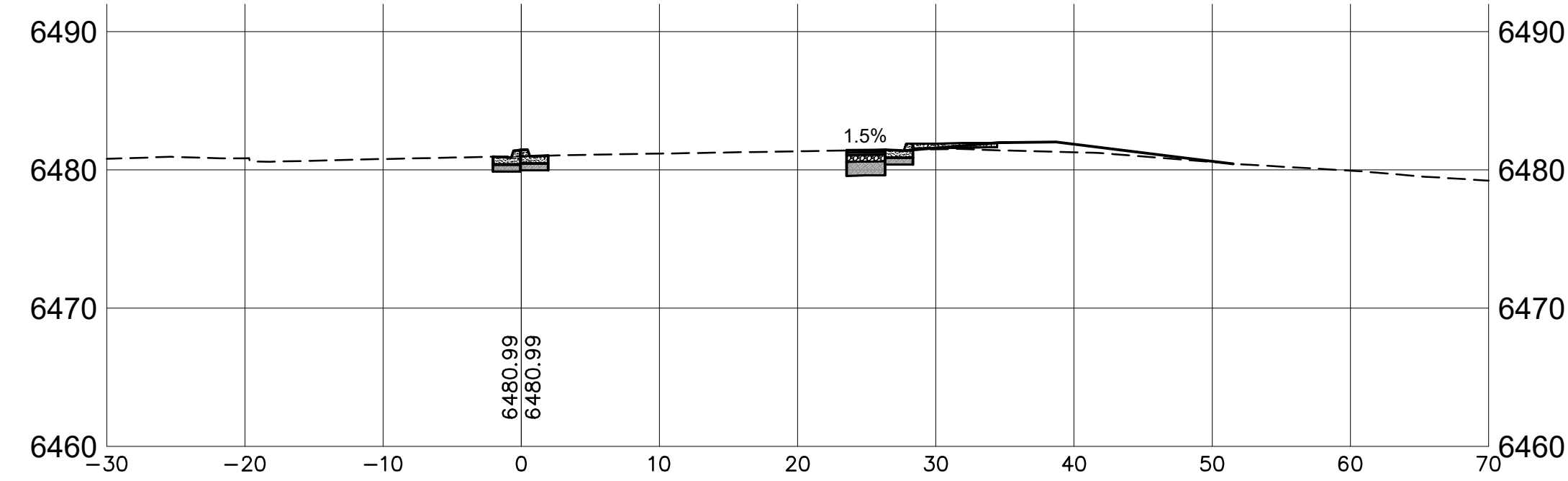




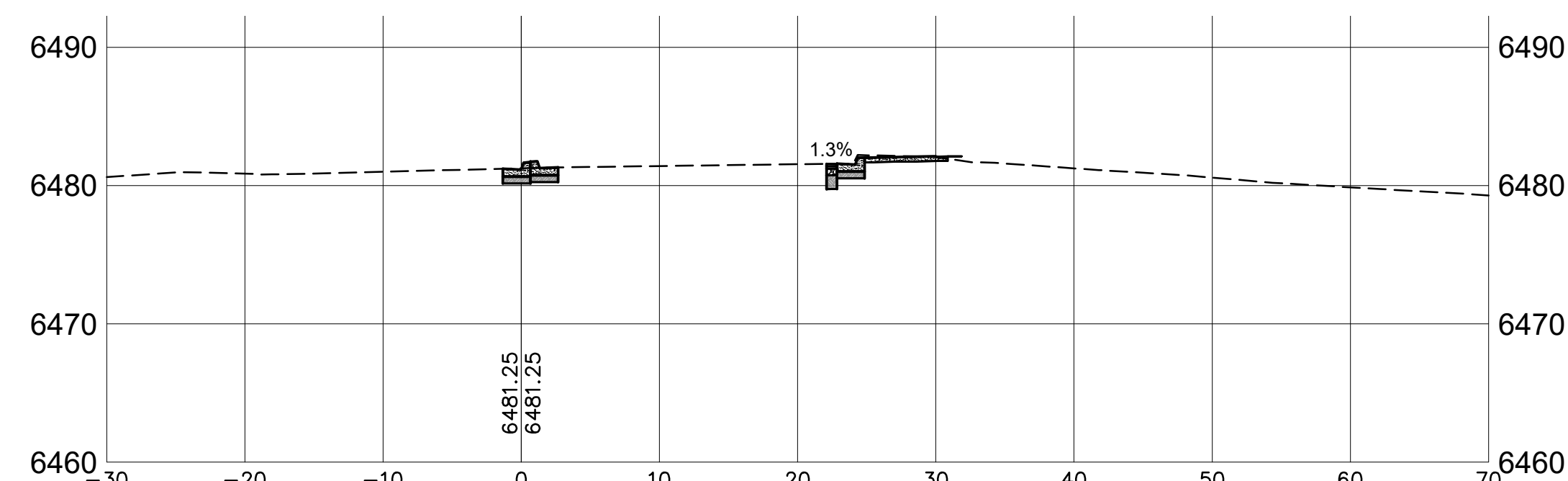
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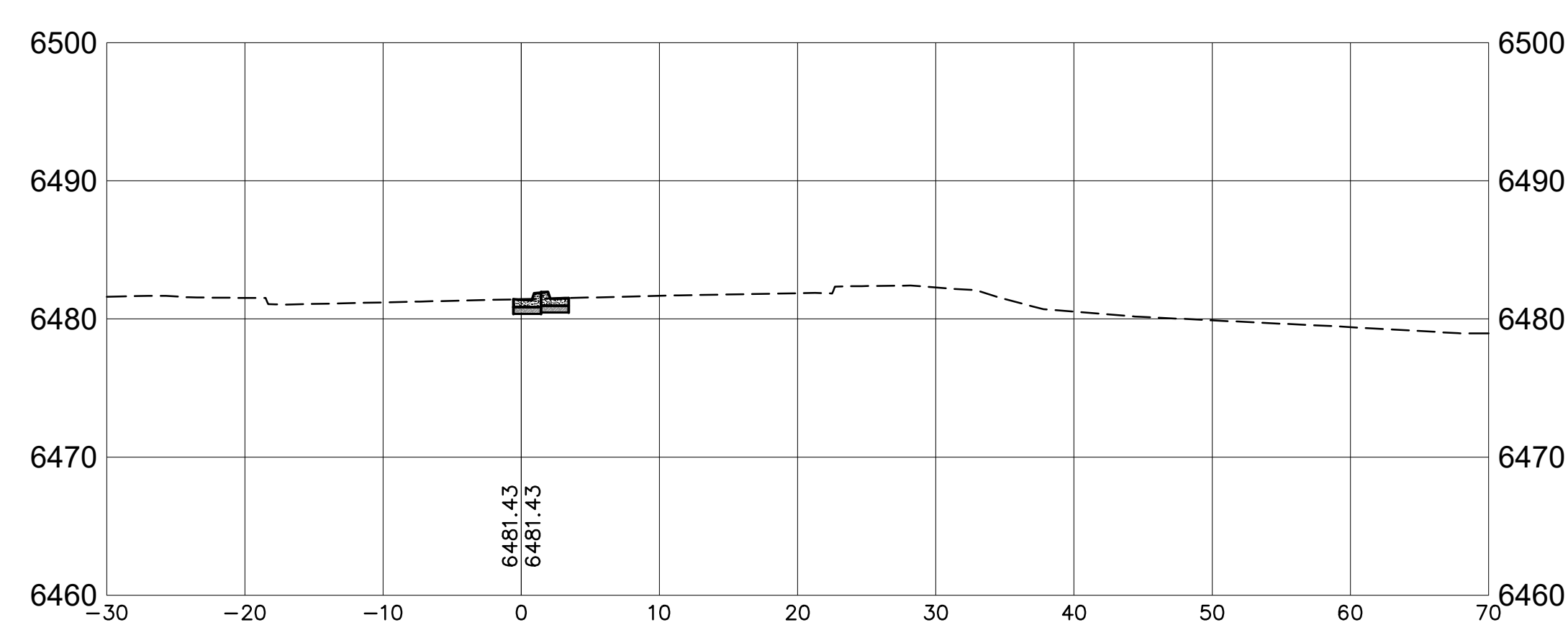
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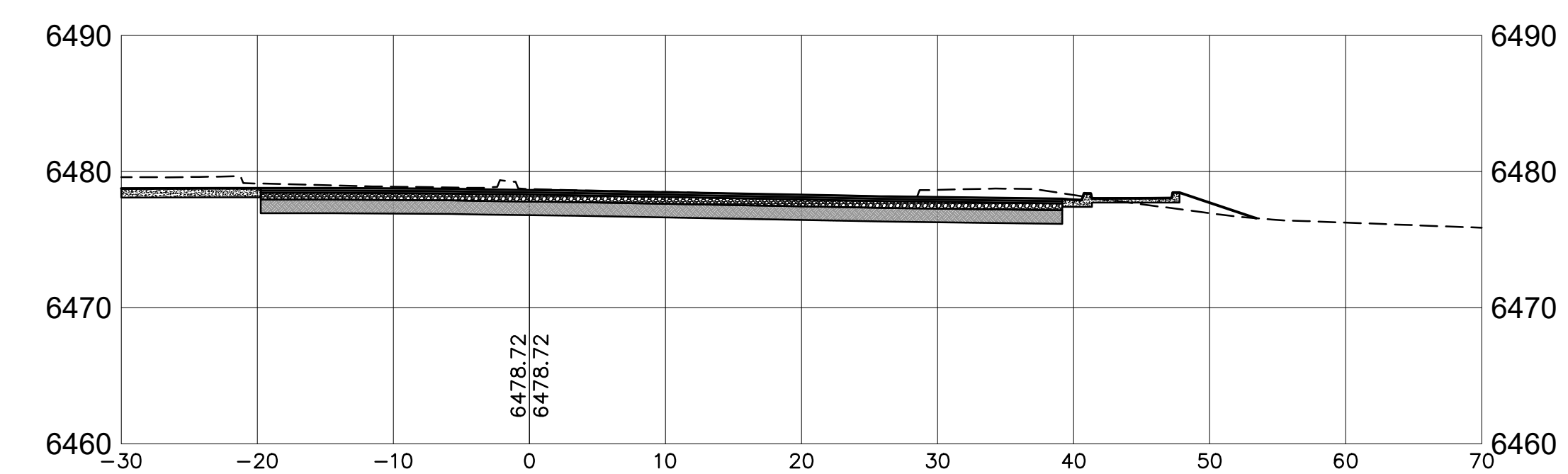
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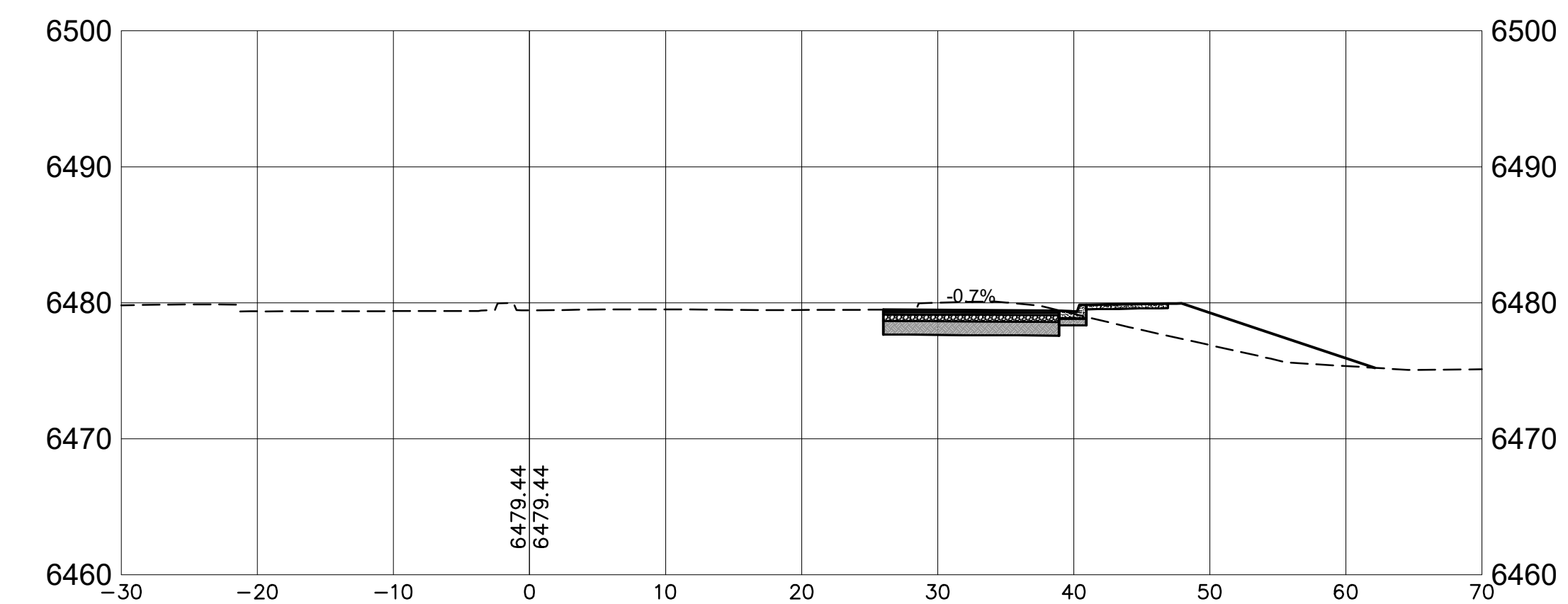
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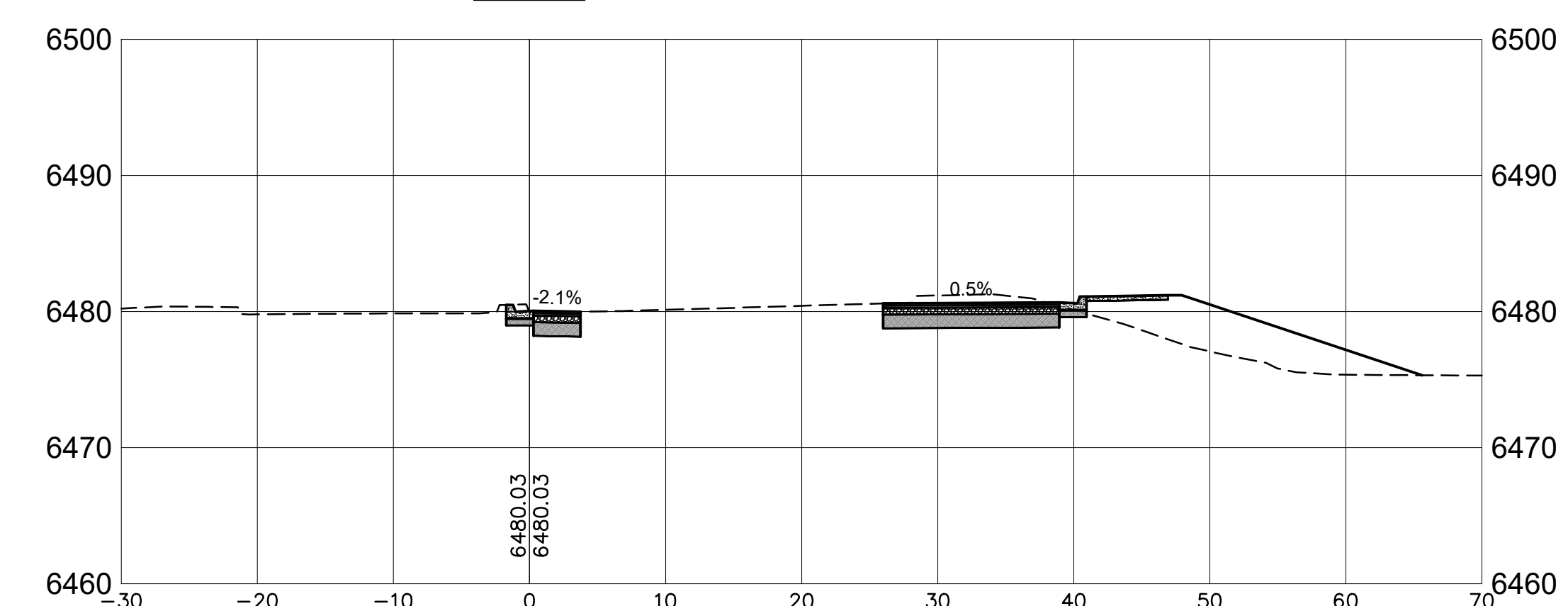
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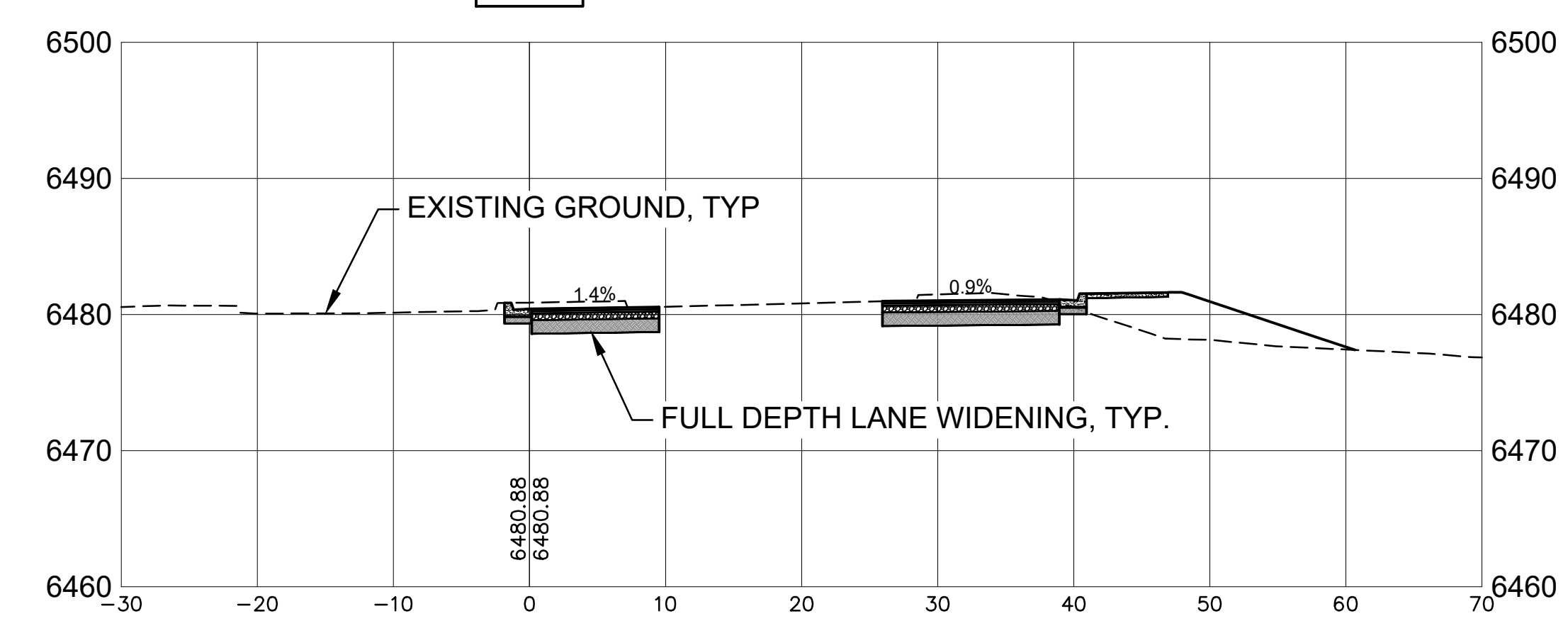
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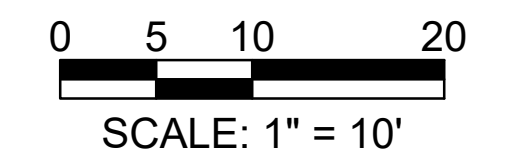
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