

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE ANY AND ALL UTILITIES.
2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1087 FOR EXISTING UTILITY LOCATIONS.
3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
10. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY DEVELOPMENT SERVICES DEPARTMENT PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
12. TYPE II RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE I RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED
13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
14. ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
15. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
16. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
17. MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25" OR 22.5" BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
18. SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35: PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN)

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
- a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - d. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY DSD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DSD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNING AND STRIPING NOTES:

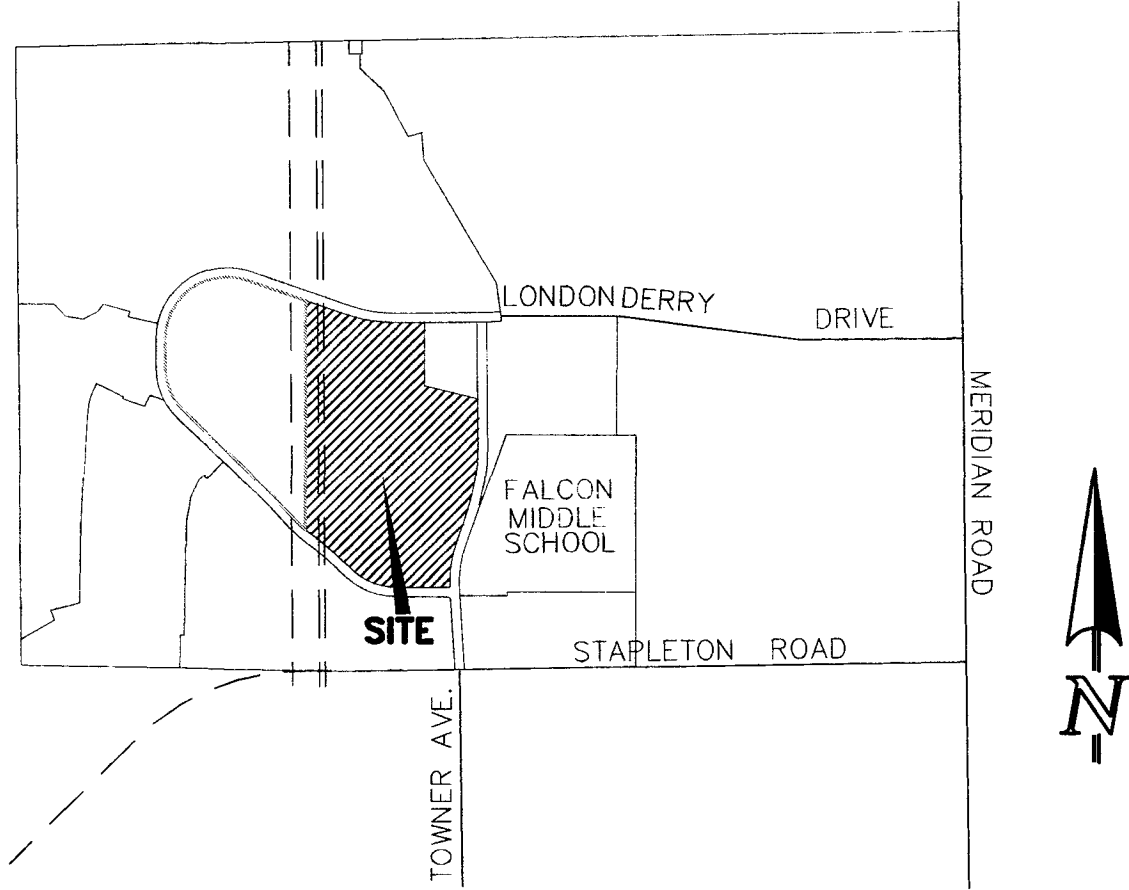
1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE 1" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-S REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

PAINT BRUSH HILLS FILING NO. 13C

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

JULY 2016



VICINITY MAP  
NTS

BENCHMARKS:

- A. SOUTH 1/4 CORNER OF SECTION 26, TOP OF 2 1/2" ALUMINUM CAP.  
ELEV. = 7140.91  
VERTICAL DATUM = NGVD 1929
- B. SOUTHWEST CORNER OF SECTION 25, TOP OF 3 1/4" ALUMINUM CAP  
ELEV. = 7136.34  
VERTICAL DATUM = NGVD 1929

BASIS OF BEARINGS:

THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEING MONUMENTED AT THE EAST BY A 3.25" ALUMINUM CAP STAMPED P.L.S. 12103, PRINCIPAL MERIDIAN AND AT THE WEST END BY A NO. 6 REBAR WITH 2.5" ALUMINUM CAP STAMPED P.L.S. 4842, ASSUMED TO BEAR N89°02'00"W, A DISTANCE OF 2614.11 FEET AS SHOWN ON A LAND SURVEY PLAT BY W. K. CLARK AND ASSOCIATES, DATED AUGUST 13, 1999.


AGENCIES:

OWNER/DEVELOPER:	LORSON NORTH DEVELOPMENT, CORP 212 NORTH WAHSATCH AVENUE, SUITE 301 COLORADO SPRINGS, CO 80903 MR. JEFF MARK, (719) 635-3200
CIVIL ENGINEER:	CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, COLORADO 80903 MR. MARC A. WHORTON, P.E. (719) 785-2802
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, COLORADO 80910 MR. GILBERT LAFORCE (719) 520-7945
METRO DISTRICT:	PAINT BRUSH HILLS METRO DISTRICT 9830 LIBERTY GROVE DR. FALCON, CO 80831 MR. LEON GOMES (719) 495-8188
GAS COMPANY:	BLACKHILLS ENERGY 37 WIDEFIELD BOULEVARD WIDEFIELD, COLORADO 80911 MR. GEORGE M. PETERSON, (719) 392-3491
ELECTRIC COMPANY:	MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LINCOLN, COLORADO 80828 MR. LES ULFERS, (719) 495-2283
FIRE DEPARTMENT:	FALCON FIRE PROTECTION DISTRICT 7030 N. MERIDIAN RD. FALCON, COLORADO 80831 CHIEF HARWIG (719) 495-4050
TELEPHONE COMPANY:	CENTURY LINK (LOCATORS) 811  AT & T (LOCATORS) 811

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

  
\_\_\_\_\_  
MARC A. WHORTON, COLORADO P.E. #37155  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

2/10/17  
\_\_\_\_\_  
DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

  
\_\_\_\_\_  
JENNIFER IRVINE, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR

2/10/17  
\_\_\_\_\_  
DATE

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 AND ENGINEERING CRITERIA MANUAL AS AMENDED.

  
\_\_\_\_\_  
JENNIFER IRVINE, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR

22 FEB 2017  
\_\_\_\_\_  
DATE

PAINT BRUSH HILLS METROPOLITAN DISTRICT

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR SANITARY SEWER, WATER MAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

\_\_\_\_\_  
FOR AND ON BEHALF OF THE PAINT BRUSH HILLS METRO. DISTRICT

\_\_\_\_\_  
DATE

FALCON FIRE PROTECTION DISTRICT

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE FALCON FIRE PROTECTION DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FALCON FIRE PROTECTION DISTRICT.

\_\_\_\_\_  
FOR AND ON BEHALF OF FALCON FIRE PROTECTION DISTRICT

\_\_\_\_\_  
DATE

PCD PROJECT NO. SF-16-015


48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.


NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-15-16

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

  
\_\_\_\_\_  
MARC A. WHORTON, COLORADO P.E. # 37155

2/10/17  
\_\_\_\_\_  
DATE

  
CLASSIC CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
TITLE SHEET

DESIGNED BY	MAW	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= N/A	SHEET	1 OF 26
CHECKED BY		(V) 1"= N/A	JOB NO.	2053.40

CLASSIC CONSULTING ENGINEERS & SURVEYORS

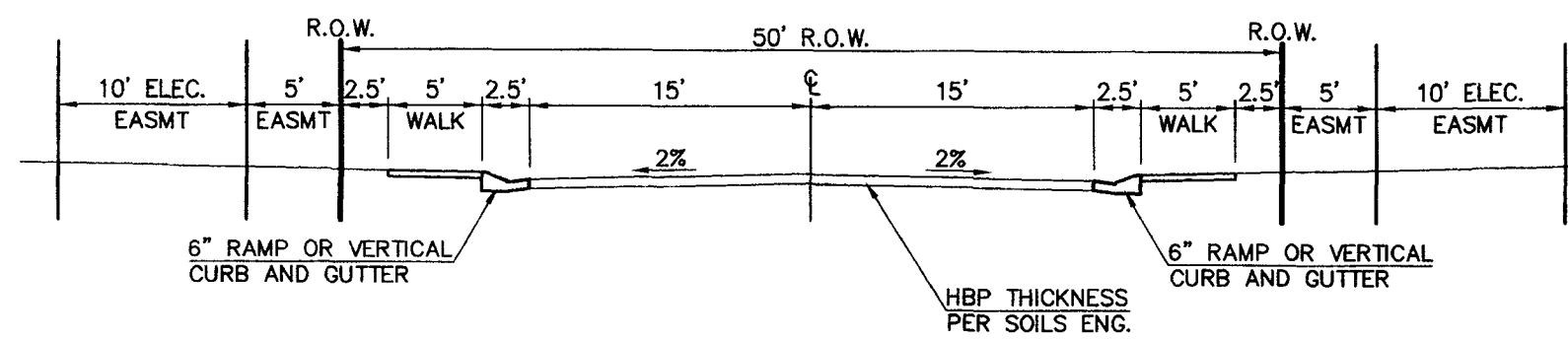
SHEET	1	OF	26
SHEET	2	OF	26
SHEET	3	OF	26
SHEET	3A	OF	26
SHEET	4	OF	26
SHEET	5	OF	26
SHEET	6	OF	26
SHEET	7	OF	26
SHEET	8	OF	26
SHEET	9	OF	26
SHEET	10	OF	26
SHEET	11	OF	26
SHEET	12	OF	26
SHEET	13	OF	26
SHEET	14	OF	26
SHEET	15	OF	26
SHEET	16	OF	26
SHEET	17	OF	26
SHEET	18	OF	26
SHEET	19	OF	26
SHEET	20	OF	26
SHEET	21	OF	26
SHEET	22	OF	26
SHEET	23	OF	26
SHEET	24	OF	26
SHEET	25	OF	26
SHEET	26	OF	26

This is a detailed plat map of the Paint Brush Hills Metro District. The map shows several tracts of land, each with its own set of lots and streets. Tract A is a large, irregularly shaped tract on the left side of the map, containing lots 1 through 130. Tract B is a small, rectangular tract at the top center, containing lots 101 through 104. Tract C is a large, irregularly shaped tract on the right side, containing lots 105 through 135. Tract D is a small, rectangular tract at the bottom center, containing lots 136 through 140. Tract L is a small, rectangular tract at the bottom right, containing lots 141 through 145. The map also shows several streets, including Londonderry Drive, Keating Drive, Carrington Drive, Rockingham Drive, Sherwin Court, Witherbee Drive, Redington Drive, Duxbury Drive, Tower Blvd, Gravelly Bend Rd, and Gravelly Bend Rd. Other landmarks include Falcon Middle School, Pocket Park, Detention, and Scenic View at Paint Brush Hills. The map includes lot numbers and labels for 'UNPLATTED' areas and 'EXIST OPEN SPACE'.

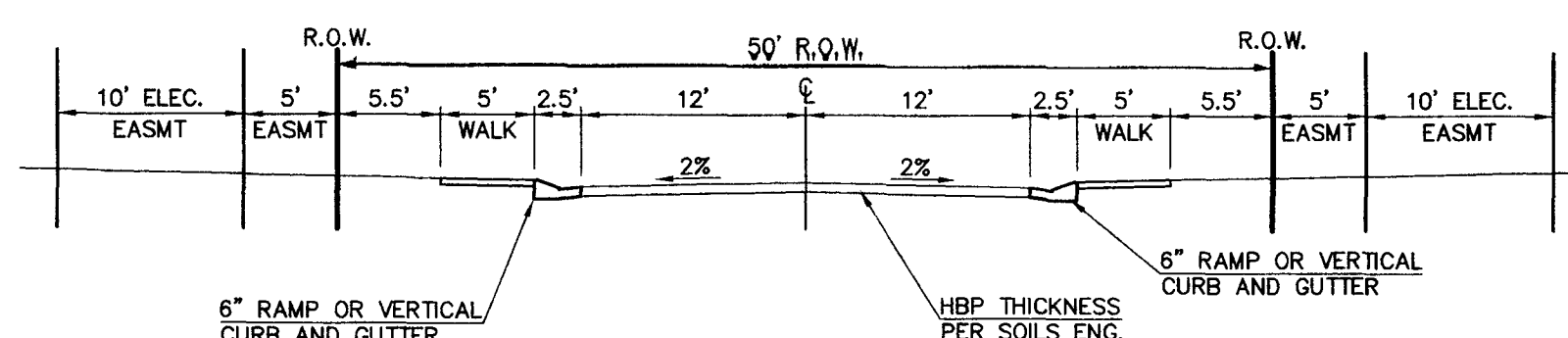
<b>PAINT BRUSH HILLS FILING NO. 13C</b> <b>CONSTRUCTION PLANS</b> <b>SHEET INDEX</b>				<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">ENGINEER'S SIGNATURE</div> <div style="text-align: center;"> <div style="font-size: 2em; font-weight: bold; margin-bottom: 5px;">4</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 1.5em;">CLASSIC</div> </div> </div>
DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= 200'	SHEET 2	OF 26
CHECKED BY		(V) 1"= N/A	JOB NO.	2053.40

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

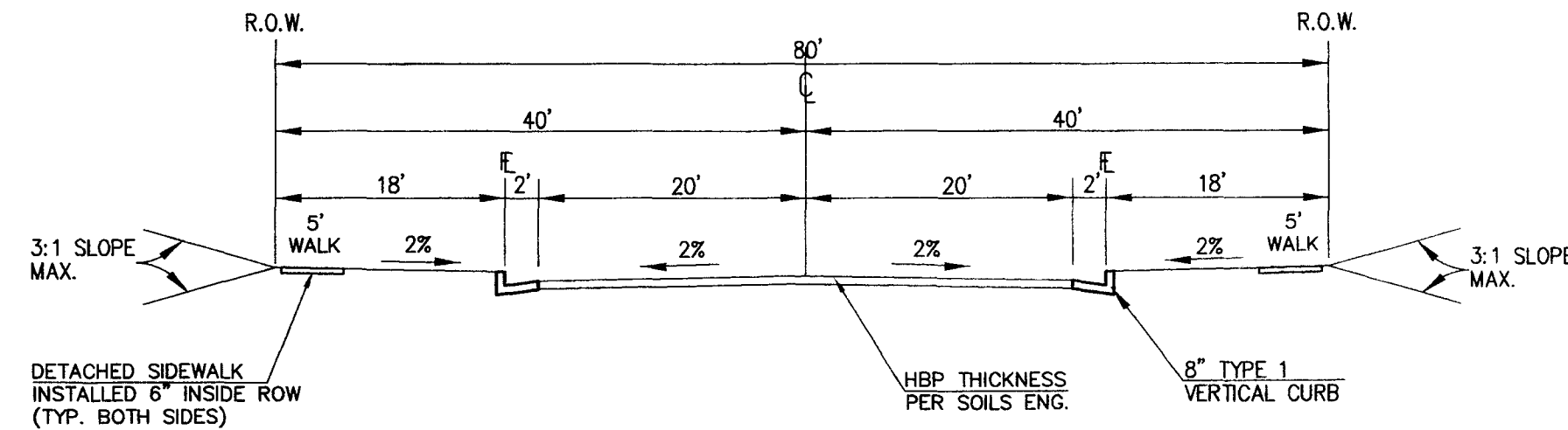




**TYPICAL SECTION - 50' R.O.W.**  
(URBAN LOCAL)  
SCALE: 1" = 10'  
-WITHERBEE DRIVE, BECKHAM STREET & JAGGER WAY

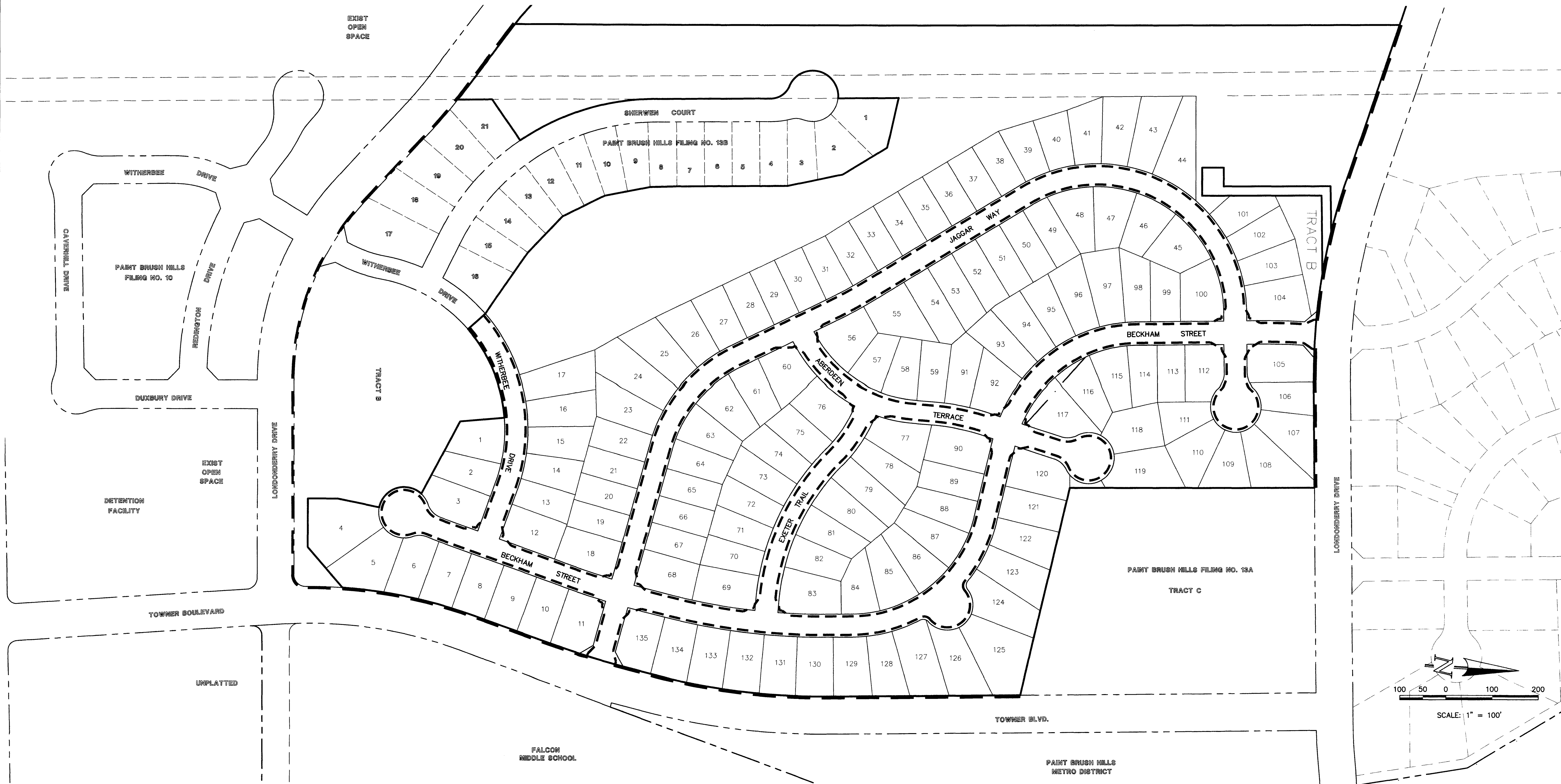


**TYPICAL SECTION - 50' R.O.W.**  
(URBAN LOCAL-LOW VOLUME)  
SCALE: 1" = 10'  
-EXETER TRAIL & ABERDEEN TERRACE



**TYPICAL SECTION - EXISTING COLLECTOR ROAD**  
N.T.S.  
-TOWNER BLVD. AND LONDONDERRY DR.

**50' R.O.W. SIDEWALK NOTE:**  
SEE THIS PLAN FOR THE EXACT LOCATIONS OF  
SIDEWALK INSTALLATION OR SIDEWALK EXCLUSIONS  
ALONG THE PROPOSED ROADWAYS.



**SIDEWALK LEGEND**

- 5' ATTACHED SIDEWALK
- 5' DETACHED SIDEWALK

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-16-16
2	REVISED PER COUNTY COMMENTS	1-3-17

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. # 37155

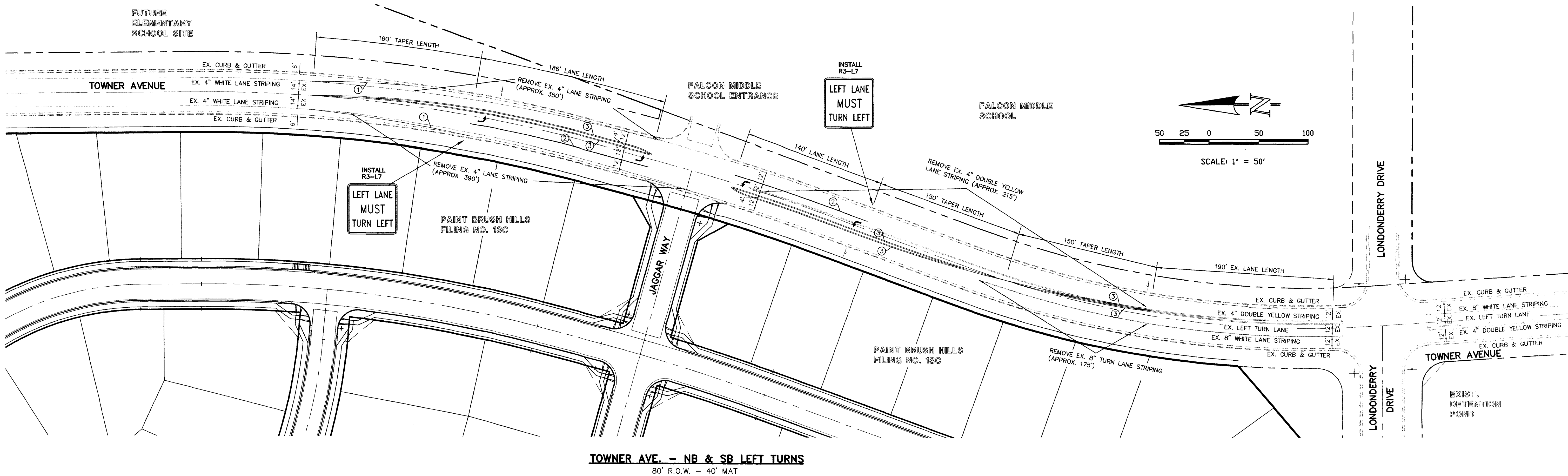
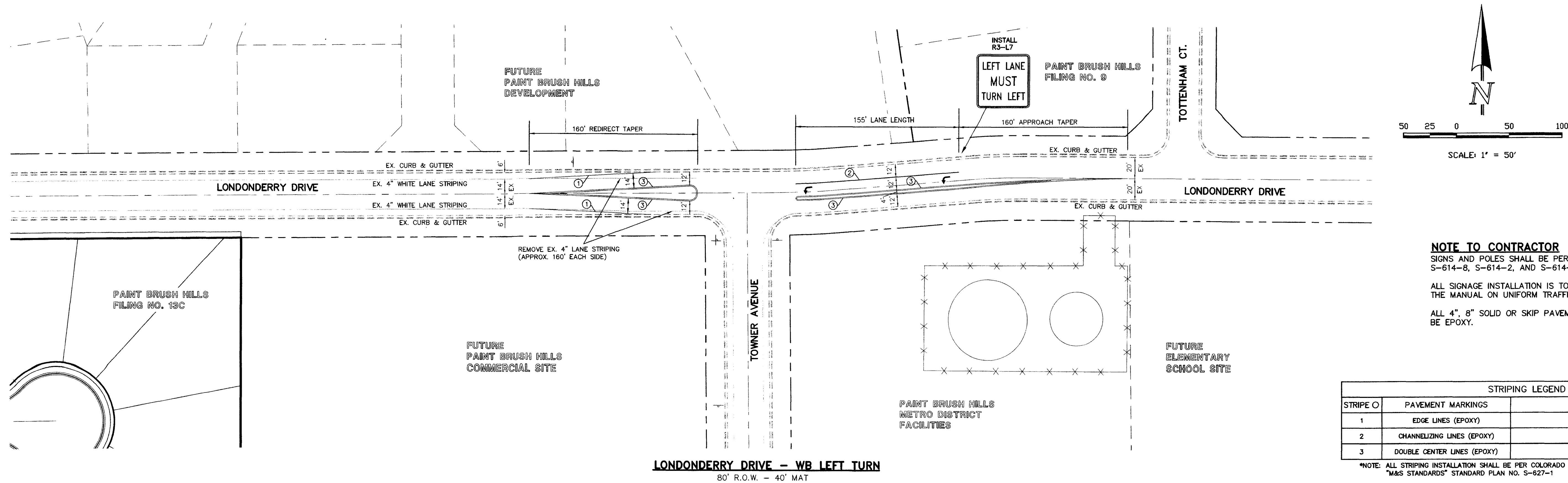
DATE

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS  
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0792 (Fax)

**PAINT BRUSH HILLS FILING NO. 13C**  
**CONSTRUCTION PLANS**  
SIDEWALK EXHIBIT  
INCLUDING TYPICAL ROAD SECTIONS

DESIGNED BY	MAW	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1" = 100'	SHEET	3 OF 26
CHECKED BY	(V) 1" = N/A	JOB NO.	2053.40	

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS



DESIGN DATA: LONDONDERRY / TOWNER

SIDEWALKS: WIDTH 5'

LOCATION: ☐ Attached ☒ Detached

CURB TYPE: ☐ 1 ☐ 5 ☐ 3 ☒ A ☐ C

R/W WIDTH 80' MAT WIDTH 40'

STREET TYPE HYVEM THICKNESS

PAVEMENT: TYPE HMA ☐ PCC ☐

THICKNESS

COMPOSITE SECTION

HMA BASE

SUBGRADE STABILIZATION: CHEMICAL: ☐ MECH: ☐

TYPE: THICKNESS

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

2/14/17

CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS

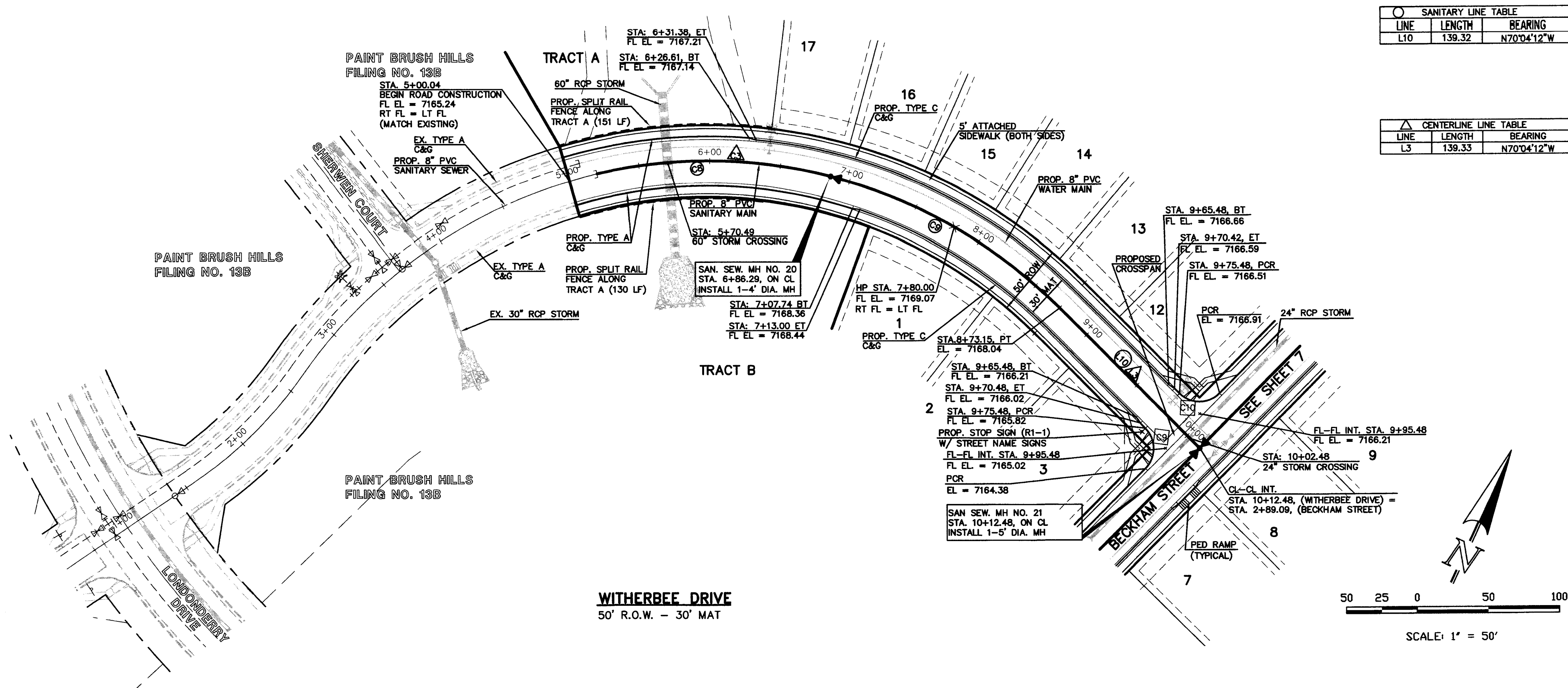
619 N. Cascade Avenue, Suite 200 (719)785-0790  
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
SIGNAGE AND STRIPING PLAN

DESIGNED BY MAW SCALE DATE 2-12-17  
DRAWN BY MAW (H) 1"= 50' SHEET 3A OF 26  
CHECKED BY (V) 1"= 5' JOB NO. 2053.40

CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS

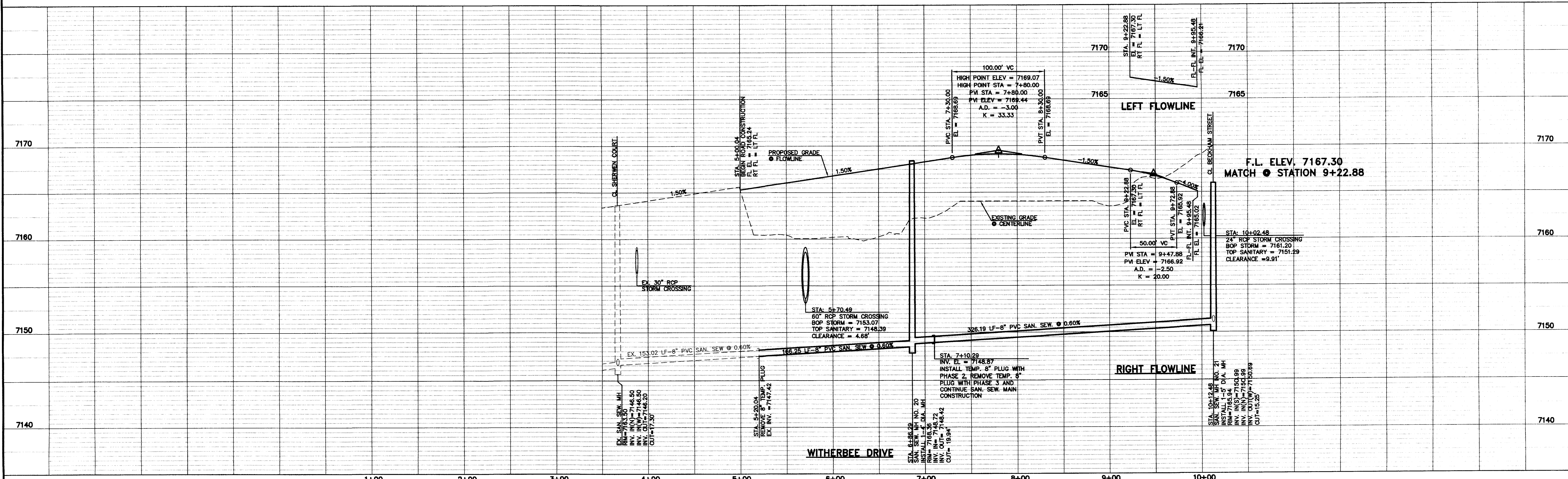
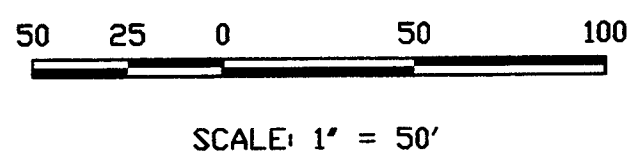




SANITARY LINE TABLE			SANITARY CURVE TABLE			
LINE	LENGTH	BEARING	CURVE	LENGTH	RADIUS	DELTA
L10	139.32	N70°04'12"W	C8	166.25	350.00	27°12'57"
			C9	186.85	350.00	30°35'18"

CENTERLINE LINE TABLE			CENTERLINE CURVE TABLE			
LINE	LENGTH	BEARING	CURVE	LENGTH	RADIUS	DELTA
L3	139.33	N70°04'12"W	C3	373.11	350.00	81°04'42"

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C9	31.42	20.00	90°00'00"
C10	31.42	20.00	90°00'00"



DESIGN DATA: WITHERBEE DRIVE

SIDEWALKS: WIDTH: 5'  
LOCATION: ☒ Attached  
☐ Detached

CURB TYPE: ☐ 1 ☐ 5 ☐ 3 ☒ A ☐ C

R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: \_\_\_\_\_ HVEEM \_\_\_\_\_

PAVEMENT:  
TYPE: HMA ☐ PCC ☐  
THICKNESS: \_\_\_\_\_  
COMPOSITE SECTION  
HMA \_\_\_\_\_  
BASE \_\_\_\_\_  
SUBGRADE STABILIZATION:  
CHEMICAL: ☐ MECH.: ☐  
TYPE: \_\_\_\_\_  
THICKNESS: \_\_\_\_\_

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE  
SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR  
SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING  
UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL  
BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH  
MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND  
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

1 REVISED PER COUNTY COMMENTS

DATE

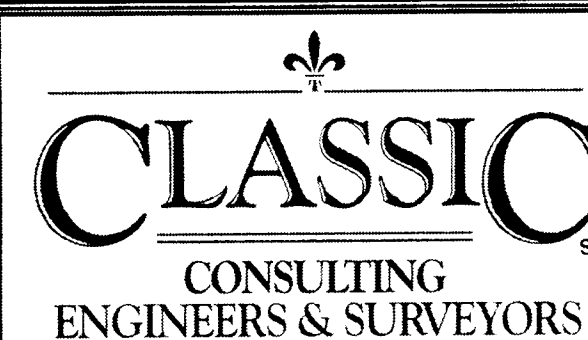
11-16-16

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE 2/10/17



619 N. Cascade Avenue, Suite 200 (719) 785-0790  
Colorado Springs, Colorado 80903 (719) 785-0799(Fax)

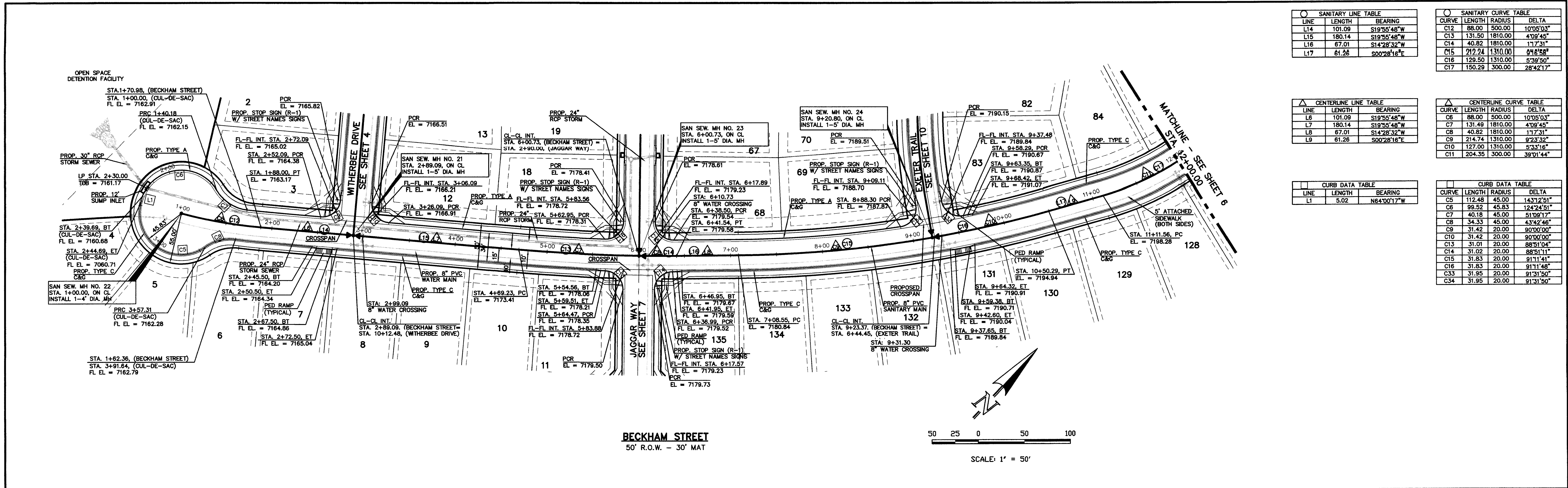
PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
WITHERBEE DRIVE

DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET	4 OF 26
CHECKED BY	(V) 1"= 5'	JOB NO.	2053.40	

CLASSIC  
CONSULTING ENGINEERS & SURVEYORS



N:\205340\DRAWINGS\CONSTRUCTION\13C\205340-SHEET-05.dwg, 12/13/2016 6:55:35 AM, DWG To PDF, pc3



SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L14	101.09	S19°55'48\"W
L15	180.14	S19°55'48\"W
L16	67.01	S14°28'32\"W
L17	61.26	S00°28'16\"E

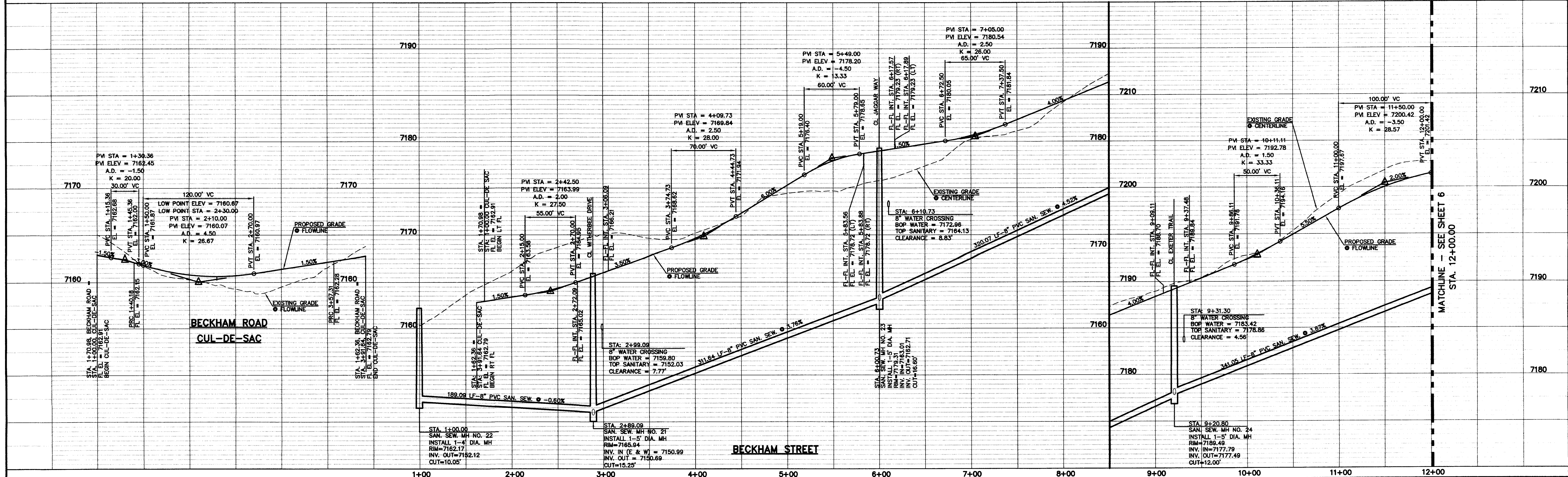
SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C12	88.00	500.00	10°05'03\"
C13	131.50	1810.00	4°09'45\"
C14	40.82	1810.00	11°7'31\"
C15	212.24	1310.00	04°8'58\"
C16	129.50	1310.00	5°39'50\"
C17	150.29	300.00	28°42'17\"

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L6	101.09	S19°55'48\"W
L7	180.14	S19°55'48\"W
L8	67.01	S14°28'32\"W
L9	61.26	S00°28'16\"E

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C6	88.00	500.00	10°05'03\"
C7	131.49	1810.00	4°09'45\"
C8	40.82	1810.00	11°7'31\"
C9	214.74	1310.00	9°23'32\"
C10	127.00	1310.00	5°33'16\"
C11	204.35	300.00	39°01'44\"

CURB DATA TABLE		
LINE	LENGTH	BEARING
L1	5.02	N64°00'17\"W

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C5	112.48	45.00	143°12'51\"
C6	99.52	45.53	124°24'51\"
C7	40.18	45.00	51°09'17\"
C8	34.33	45.00	43°42'46\"
C9	31.42	20.00	90°00'00\"
C10	31.42	20.00	90°00'00\"
C13	31.01	20.00	88°51'04\"
C14	31.02	20.00	88°51'11\"
C15	31.83	20.00	91°11'41\"
C16	31.83	20.00	91°11'48\"
C19	31.95	20.00	91°31'50\"
C34	31.95	20.00	91°31'50\"



DESIGN DATA: BECKHAM STREET

SIDEWALKS: WIDTH: 5' LOCATION: Attached Detached

CURB TYPE: 1 5 3 A C R/W WIDTH: 50' MAT WIDTH: 30' STREET TYPE: HVEEM

PAVEMENT: TYPE: HMA PCC THICKNESS: COMPOSITE SECTION: HMA BASE SUBGRADE STABILIZATION: MECH. TYPE: THICKNESS:

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

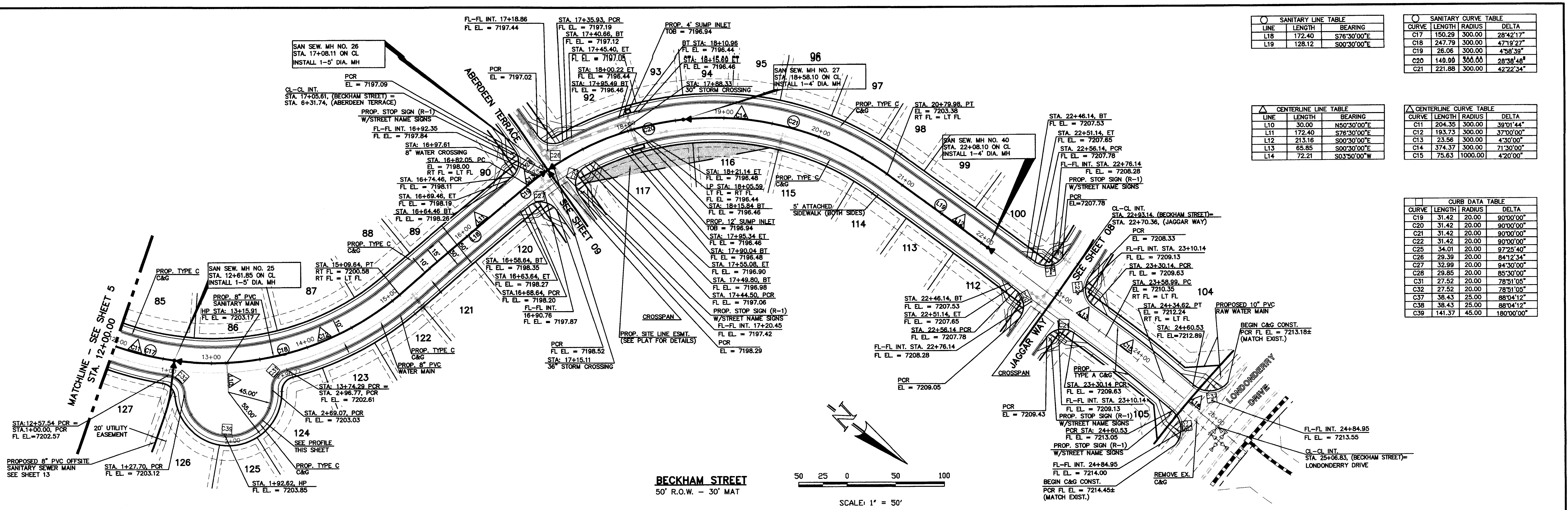
NO. REVISION		DATE
1	REVISED PER COUNTY COMMENTS	11-16-16

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WORTON, COLORADO P.E. #37155 DATE: 2/16/17

CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0790(Fax)

PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS STREET IMPROVEMENT PLANS BECKHAM STREET DESIGNED BY: PRA SCALE: (H) 1" = 50' (V) 1" = 5' SHEET 5 OF 26 DRAWN BY: PRA CHECKED BY: DATE: 12-12-16 JOB NO. 2053.40





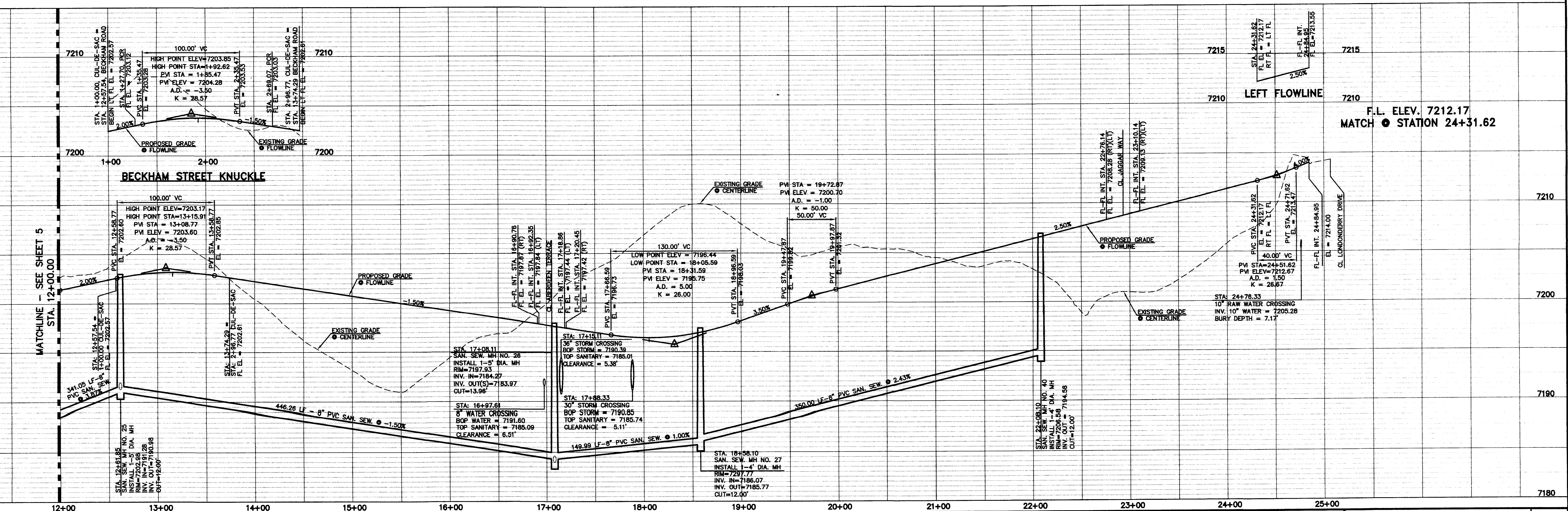
SANTARY LINE TABLE		
LINE	LENGTH	BEARING
L18	172.40	S78°30'00"E
L19	128.12	S80°30'00"E

SANTARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C17	150.29	300.00	28°42'17"
C18	247.79	300.00	47°19'27"
C19	26.06	300.00	4°58'39"
C20	149.99	300.00	28°38'48"
C21	227.88	300.00	42°22'34"

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L10	30.00	N80°30'00"E
L11	172.40	S78°30'00"E
L12	213.16	S80°30'00"E
L13	68.85	S83°30'00"E
L14	72.21	S83°30'00"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C10	204.35	300.00	38°01'44"
C11	193.73	300.00	37°00'00"
C12	23.56	300.00	4°30'00"
C13	374.37	300.00	71°30'00"
C15	75.63	1000.00	4°20'00"

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C19	11.42	20.00	90°00'00"
C20	31.42	20.00	90°00'00"
C21	31.42	20.00	90°00'00"
C22	31.42	20.00	90°00'00"
C25	34.01	20.00	97°25'40"
C26	29.39	20.00	84°12'34"
C27	32.98	20.00	84°30'00"
C28	29.85	20.00	85°30'00"
C31	27.52	20.00	78°31'05"
C32	27.52	20.00	78°31'05"
C37	38.43	25.00	88°04'12"
C38	38.43	25.00	88°04'12"
C39	141.37	45.00	180°00'00"

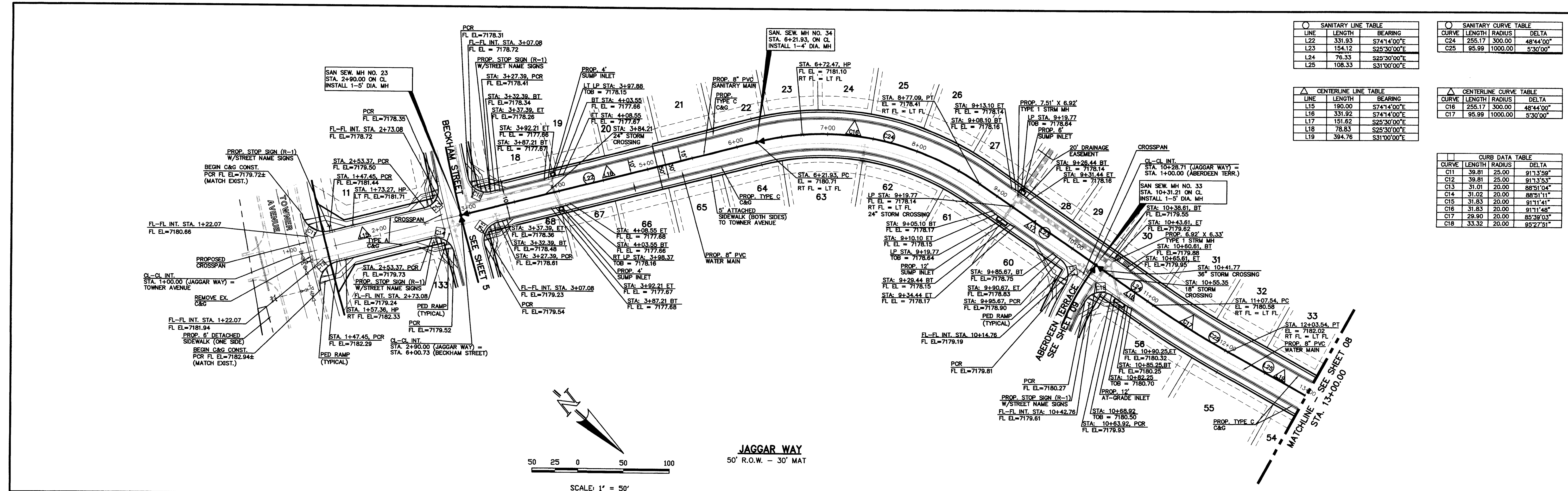


DESIGN DATA: BECKHAM STREET	PAYMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>	THICKNESS: COMPOSITE SECTION	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION: 1 REVISED PER COUNTY COMMENTS	DATE: 11-16-16
SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C	R/W WIDTH: 50' MAT WIDTH: 30' STREET TYPE: HVEEM	THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC	CLASSIC CONSULTING ENGINEERS & SURVEYORS
PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS STREET IMPROVEMENT PLANS BECKHAM STREET			DESIGNED BY: PRA SCALE: (H) 1"= 50' DATE: 12-12-16		
DRAWN BY: PRA SCALE: (V) 1"= 5' SHEET: 6 OF 26			CHECKED BY: (V) 1"= 5' JOB NO.: 2053.40		

N:\2015\40\DRAWINGS\CONSTRUCTION\13C\2053.40 SHEET 06.dwg 12/13/2016 6:56:52 AM DWG To PDF.pc3



N:\205340\DRAWINGS\CONSTRUCTION\13C\205340\_SHEET\_07.dwg, 12/13/2016 6:58:18 AM, DWG To PDF, p33



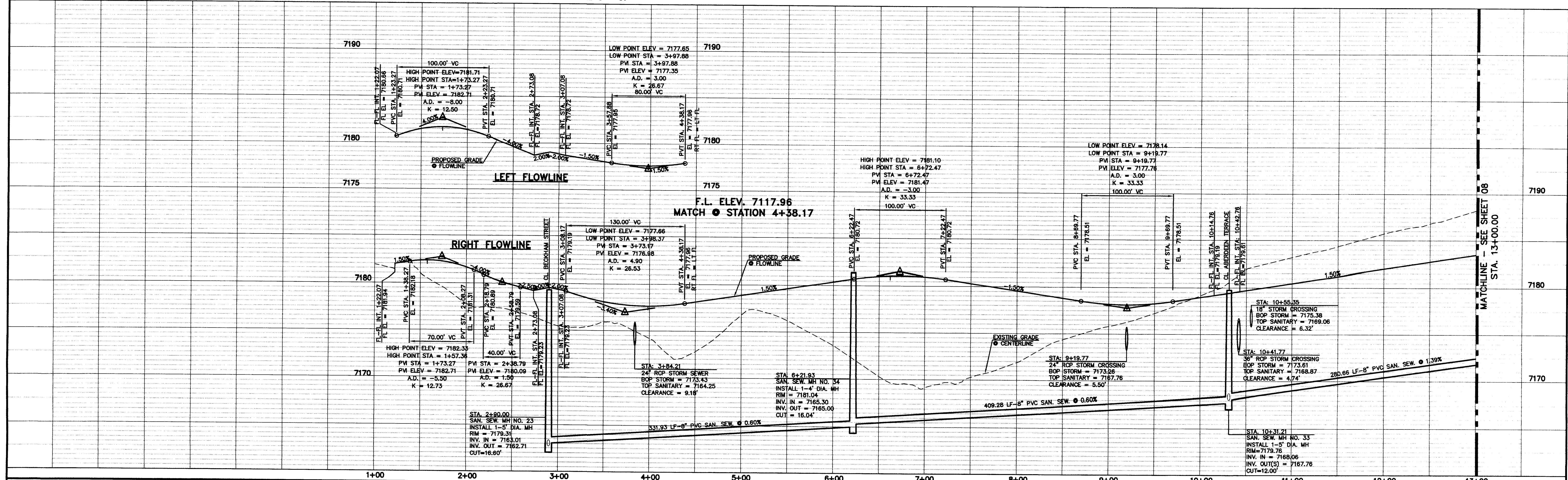
SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L22	331.93	S74°14'00"E
L23	154.12	S25°30'00"E
L24	78.33	S22°30'00"E
L25	108.33	S31°00'00"E

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C24	255.17	300.00	48°44'00"
C25	95.99	1000.00	5°30'00"

CENTERLINE TABLE		
LINE	LENGTH	BEARING
L15	180.00	S74°14'00"E
L16	331.92	S74°14'00"E
L17	151.62	S25°30'00"E
L18	78.83	S22°30'00"E
L19	394.78	S31°00'00"E

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C16	255.17	300.00	48°44'00"
C17	95.99	1000.00	5°30'00"

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C11	39.81	25.00	91°13'56"
C12	39.81	25.00	91°13'53"
C13	31.01	20.00	88°51'04"
C14	31.02	20.00	88°51'11"
C15	31.83	20.00	91°11'41"
C16	31.83	20.00	91°11'48"
C17	28.90	20.00	85°39'03"
C18	33.32	20.00	85°27'21"



DESIGN DATA: JAGGAR WAY

PAVEMENT: TYPE: HMA ☐ PCC ☐ THICKNESS: \_\_\_\_\_

SIDEWALKS: WIDTH: 5' COMPOSITE SECTION LOCATION: ☒ Attached ☐ Detached

CURB TYPE: ☐ 1 ☐ 5 ☐ 3 ☒ A ☐ C R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: \_\_\_\_\_ HVEEM: \_\_\_\_\_ THICKNESS: \_\_\_\_\_

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

**811**

UTILITY NOTIFICATION OF COLORADO ITS THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION		DATE
1	REVISED PER COUNTY COMMENTS	11-16-16

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE: 2/16/17

**CLASSIC** CONSULTING ENGINEERS & SURVEYORS

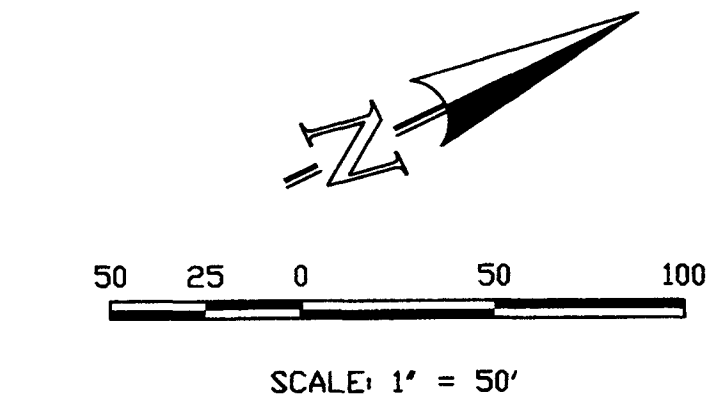
619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799(Fax)


PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS STREET IMPROVEMENT PLANS JAGGAR WAY

DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1" = 50'	SHEET	7 OF 26
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.40	

CLASSIC CONSULTING ENGINEERS & SURVEYORS

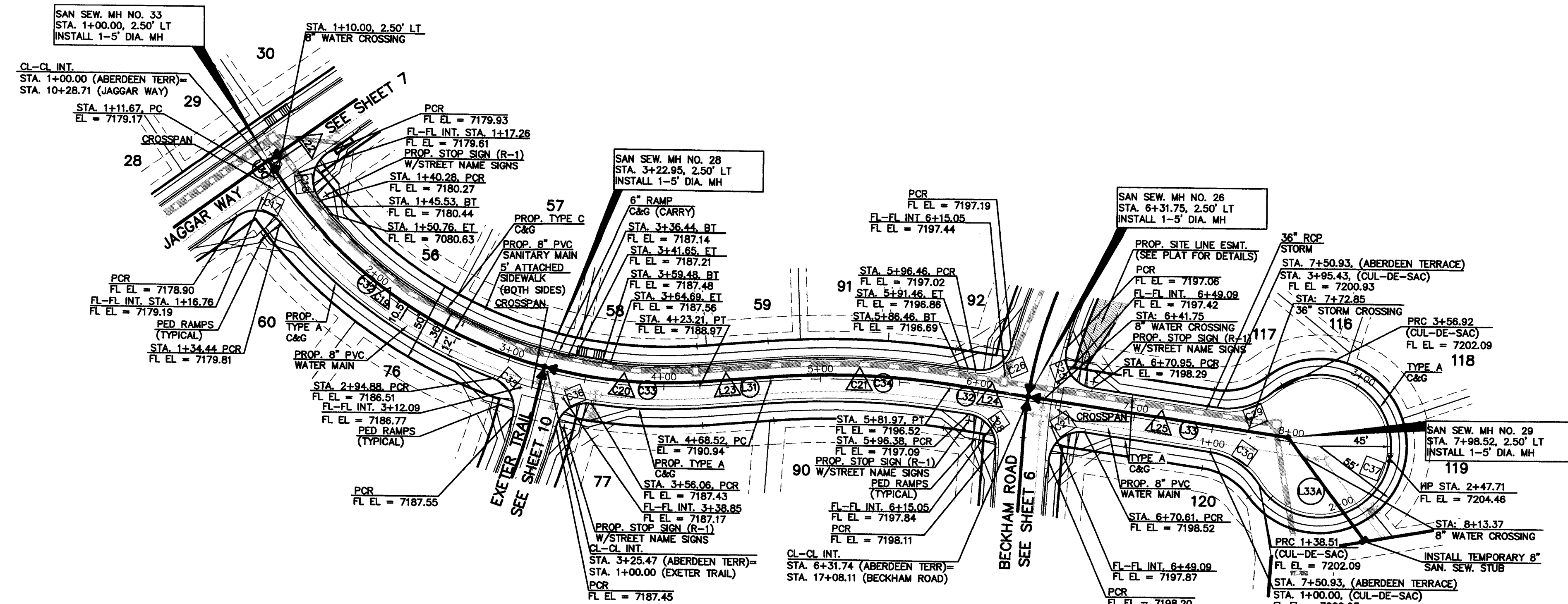




PAINT BRUSH HILLS FILING NO. 13C				
CONSTRUCTION PLANS				
STREET IMPROVEMENT PLANS				
JAGGAR WAY				
DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1" = 50'	SHEET 8	OF 26



N:\205340\DRAWINGS\CONSTRUCTION\13C\205340-SHEET 09.dwg, 12/13/2016 7:02:38 AM, DWG TO PDF.plt



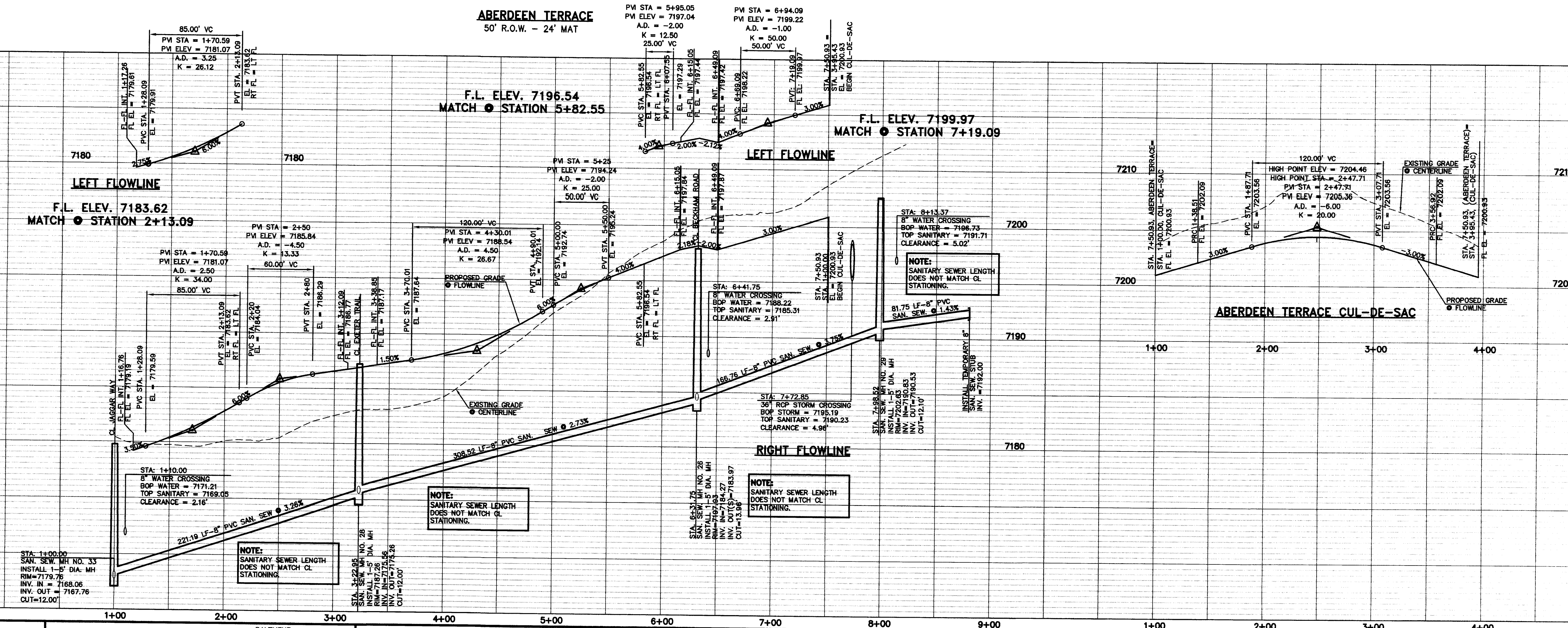
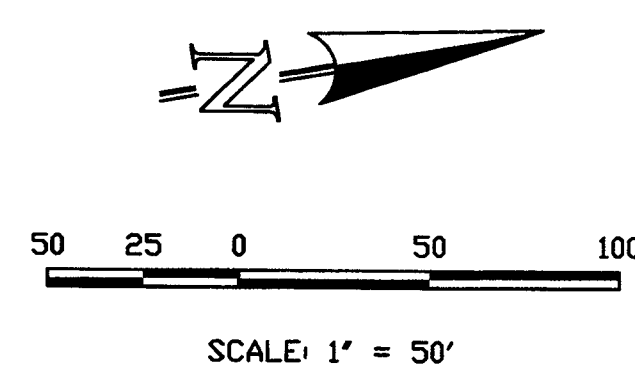
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L22	11.67	S84°30'00\"W
L23	45.31	S05°00'00\"W
L24	49.77	S18°00'00\"W
L25	187.15	S18°00'00\"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C19	213.80	300.00	40°50'00\"
C20	97.74	300.00	18°40'00\"
C21	113.45	500.00	13°00'00\"

SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L30	11.67	S84°30'00\"W
L31	45.31	S05°00'00\"W
L32	49.78	S18°00'00\"W
L33	186.78	S18°00'00\"W
L33A	81.75	S63°00'00\"W

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C32	208.52	297.50	40°21'02\"
C33	99.42	297.50	19°08'53\"
C34	114.01	502.50	13°00'00\"

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C17	29.90	20.00	85°38'03\"
C18	33.32	20.00	95°27'51\"
C23	34.01	20.00	97°25'40\"
C26	29.39	20.00	84°12'34\"
C27	32.99	20.00	94°30'00\"
C28	29.85	20.00	85°34'00\"
C29	38.51	45.00	49°02'18\"
C30	38.51	45.00	49°02'18\"
C35	29.43	20.00	84°17'35\"
C36	29.34	20.00	84°02'42\"
C37	218.40	45.00	278°04'35\"

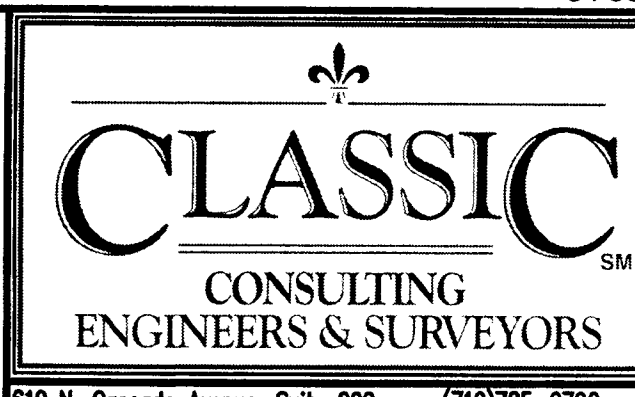


DESIGN DATA: ABERDEEN TERRACE  
SIDEWALKS: WIDTH: 5'  
LOCATION: ☒ Attached ☐ Detached  
CURB TYPE: ☐ 1 ☐ 5 ☐ 3 ☒ A ☐ C  
R/W WIDTH: 50' MAT WIDTH: 30'  
STREET TYPE: HVEEM  
PAVEMENT: TYPE: HMA ☐ PCC ☐  
THICKNESS: \_\_\_\_\_  
COMPOSITE SECTION: HMA \_\_\_\_\_  
BASE: \_\_\_\_\_  
SUBGRADE STABILIZATION: CHEMICAL: ☐ MECH: ☐  
TYPE: \_\_\_\_\_ THICKNESS: \_\_\_\_\_

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
ITS THE LAW  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION		DATE
1	REVISED PER COUNTY COMMENTS	11-16-16

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
MARC A. WHORTON, COLORADO P.E. #37155  
DATE: 2/6/17



PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS STREET IMPROVEMENT PLANS ABERDEEN TERRACE			
DESIGNED BY	PRA	SCALE	DATE 12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET 9 OF 26
CHECKED BY	(V) 1"= 5'	JOB NO.	2053.40



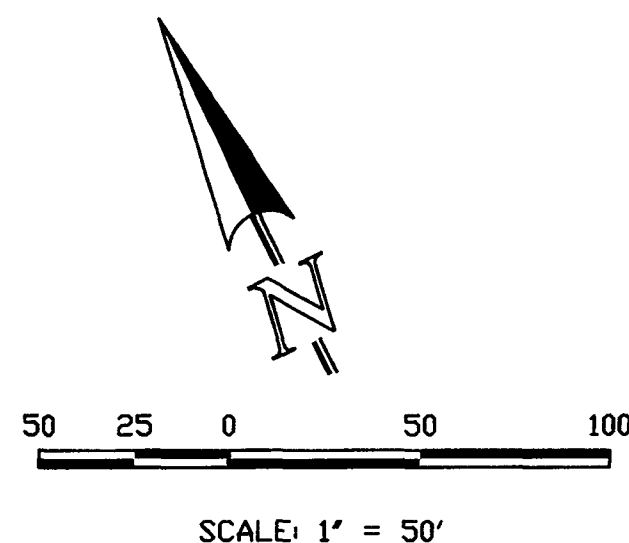
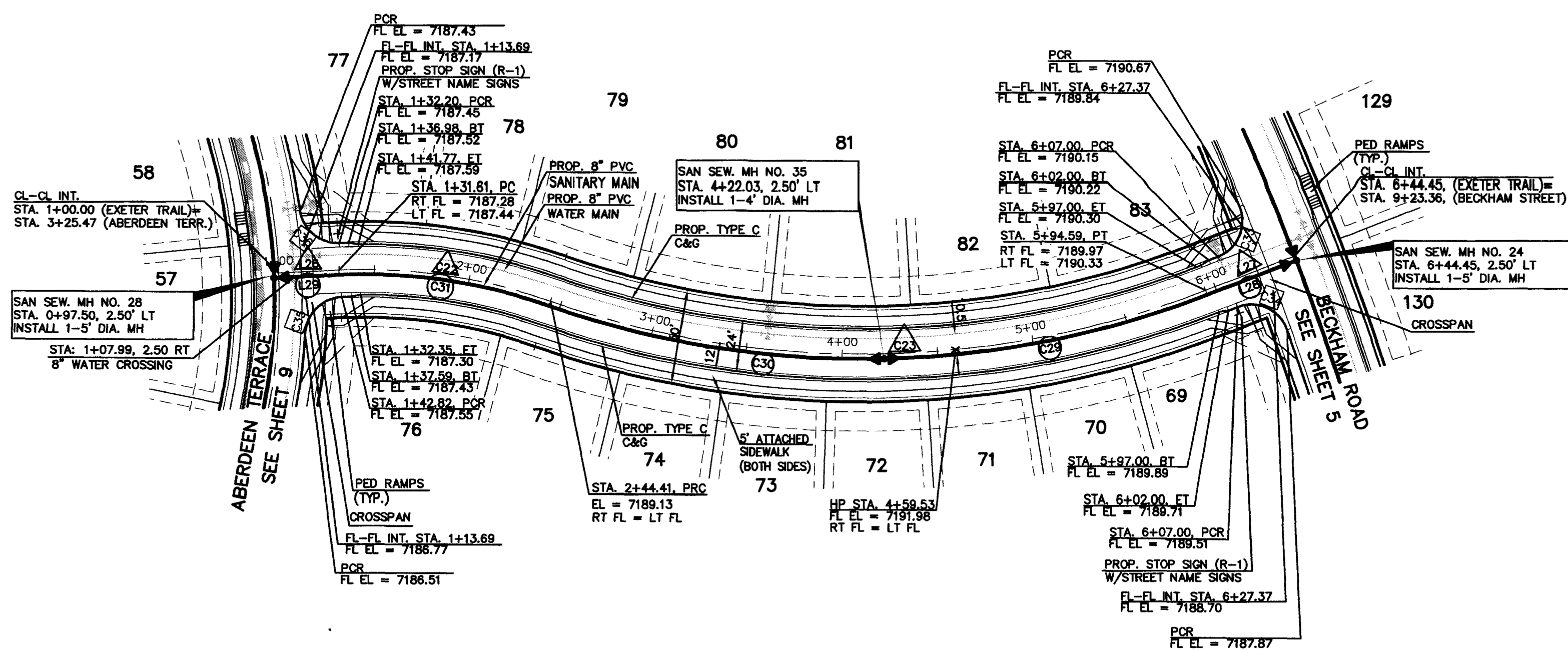
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L26	31.61	N66°20'00"W
L27	49.86	N84°55'00"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C22	112.80	300.00	21°32'38"
C23	350.18	500.00	40°07'38"

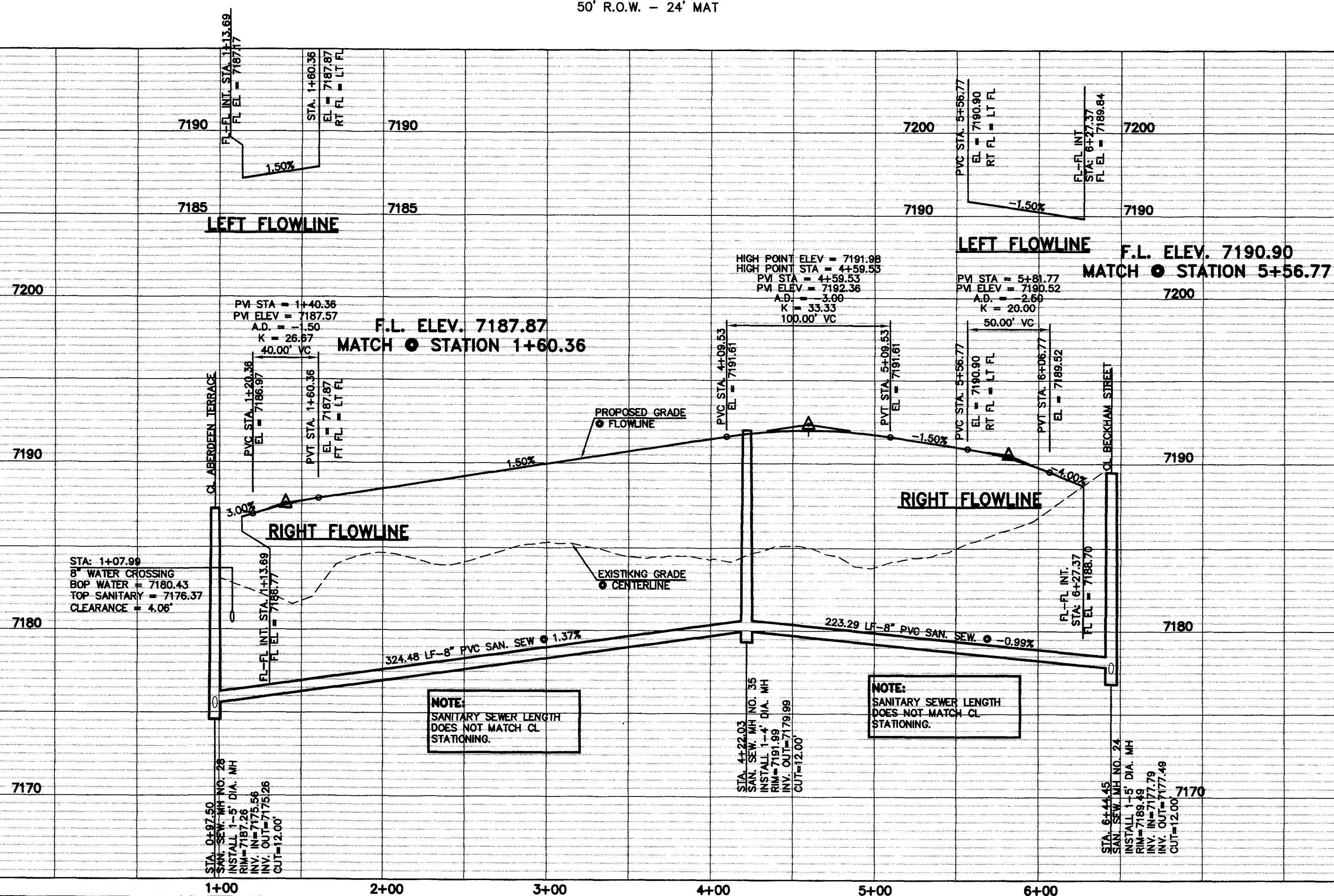
SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L28	49.86	N84°55'00"W
L29	34.12	N66°20'00"W

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C29	173.43	502.50	19°46'27"
C30	178.50	502.50	20°21'11"
C31	111.86	287.50	21°32'38"

CURB DATA TABLE			
CURVE	LENGTH	RADIUS	DELTA
C33	31.95	20.00	91°31'50"
C34	31.95	20.00	91°31'50"
C35	29.43	20.00	84°17'55"
C36	29.34	20.00	84°02'42"



**EXETER TRAIL**  
50' R.O.W. - 24' MAT



DESIGN DATA: EXETER TRAIL

SIDEWALKS: WIDTH: 5'  
LOCATION: ☒ Attached ☐ Detached  
CURB TYPE: ☐ 1 ☐ 5 ☐ 3 ☒ A ☐ C  
R/W WIDTH: 50' MAT WIDTH: 24'  
STREET TYPE: HVEEM

PAVEMENT:  
TYPE: HMA ☐ PCC ☐  
THICKNESS: \_\_\_\_\_  
COMPOSITE SECTION  
HMA: \_\_\_\_\_  
BASE: \_\_\_\_\_  
SUBGRADE STABILIZATION:  
CHEMICAL: ☐ MECH: ☐  
TYPE: \_\_\_\_\_  
THICKNESS: \_\_\_\_\_

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

1 REVISED PER COUNTY COMMENTS

DATE

11-16-16

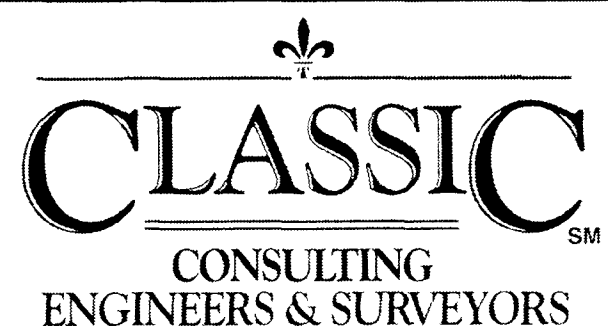
REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE

2/1/17



619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

PAINTE BRUSH HILLS FILING NO. 13C

CONSTRUCTION PLANS

STREET IMPROVEMENT PLANS

EXETER TRAIL

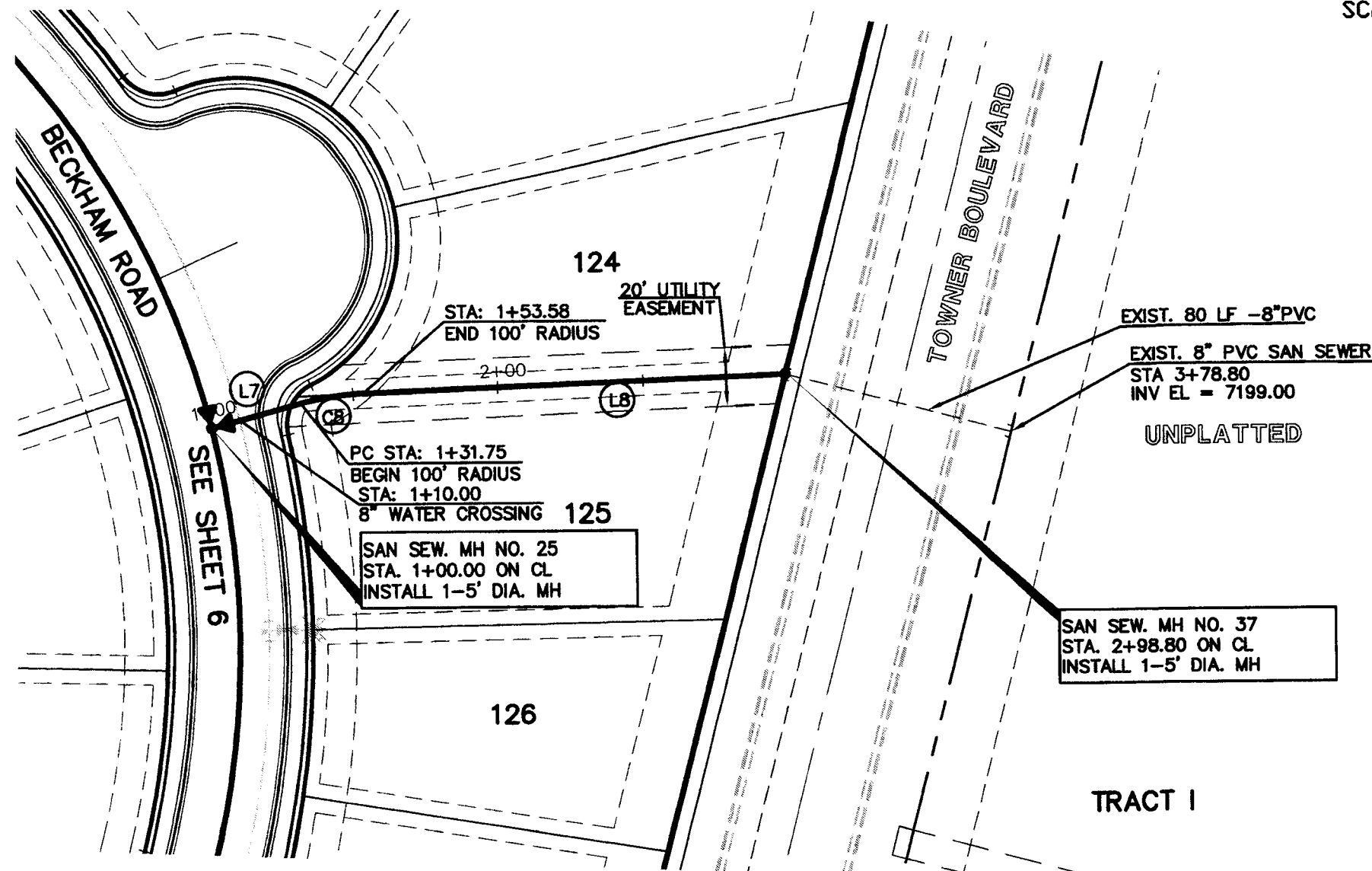
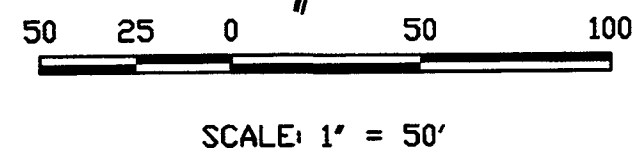
DESIGNED BY	PRA	SCALE	DATE
DRAWN BY	PRA	(H) 1" = 50'	12-12-16
CHECKED BY	(V) 1" = 5'	SHEET 10 OF 26	JOB NO. 2053.40

CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS



SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L7	31.75	N60°18'31"E
L8	145.22	N72°49'57"E

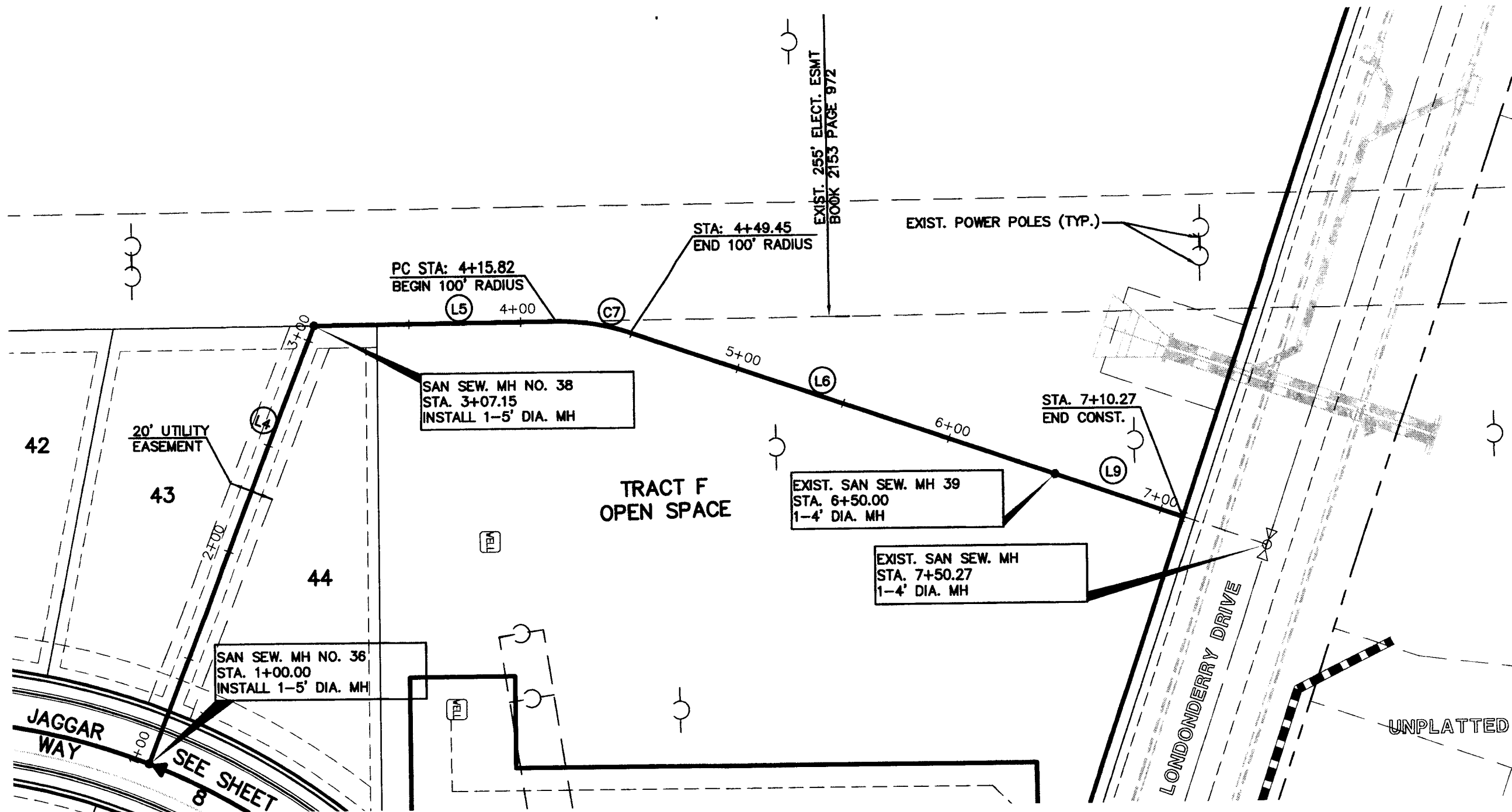
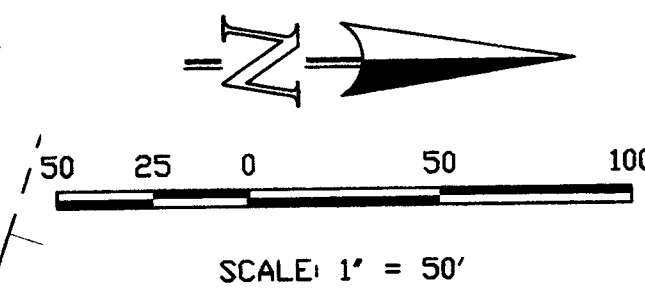
SANITARY CURVE TABLE		
CURVE	LENGTH	RADIUS
CR	21.53	100.00



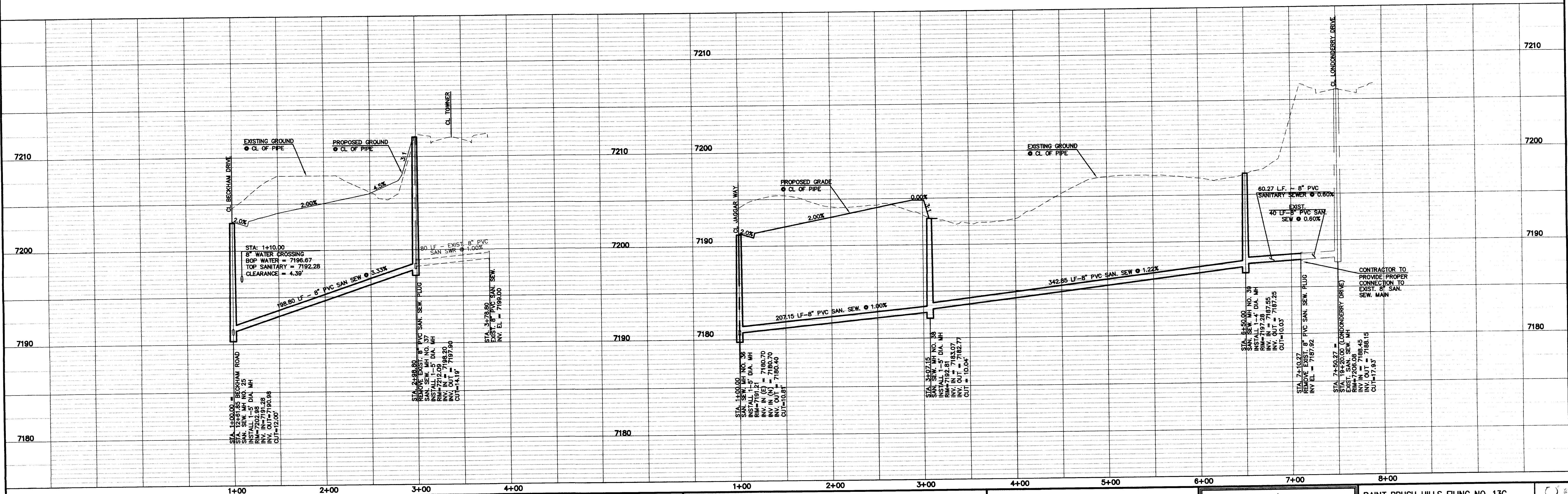
OFFSITE SANITARY SEWER

SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L4	207.15	N68°30'00"W
L5	108.67	N00°23'23"W
L6	200.55	N18°32'36"E
L9	60.27	N18°32'36"E

SANITARY CURVE TABLE		
CURVE	LENGTH	RADIUS
CR	33.63	100.00



OFFSITE SANITARY SEWER



48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE  
SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR  
SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING  
UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL  
BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH  
MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND  
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-16-16

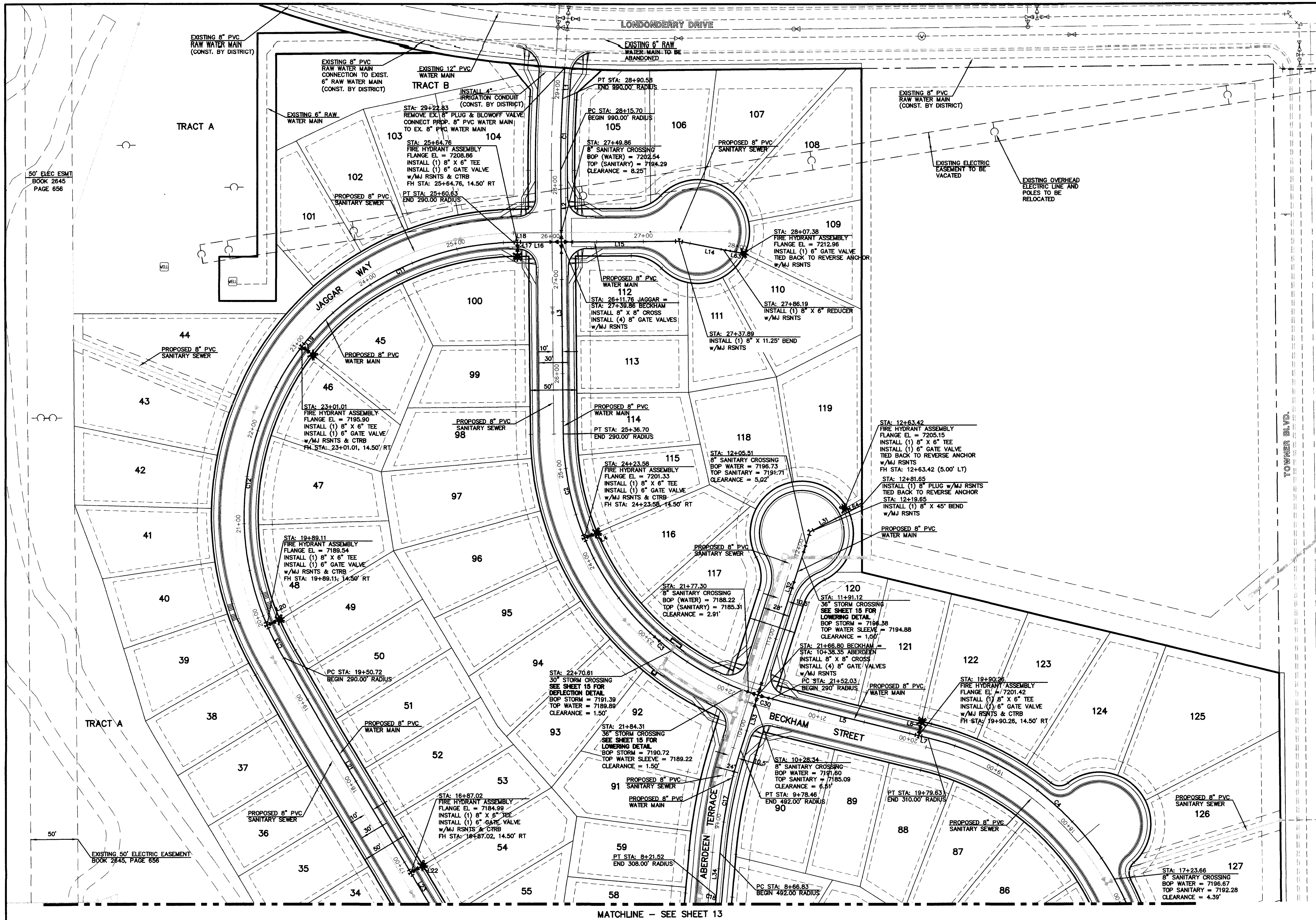
REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
  
MARC A. WHORTON, COLORADO P.E. #37155  
DATE 2/16/17

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS  
619 N. Cascade Avenue, Suite 200 (719)785-0790  
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS OFFSITE SANITARY SEWER			
DESIGNED BY	PRA	SCALE	DATE
DRAWN BY	PRA	(H) 1"= 50'	SHEET 11 OF 26
CHECKED BY	(V) 1"= 5'	JOB NO.	2053.40







WATER LINE TABLE		
LINE	LENGTH	BEARING
L1	32.25	S03°50'00\"W
L2	75.85	S00°30'00\"E
L3	203.18	S00°30'00\"E
L4	14.50	S67°09'05\"W
L5	161.77	S78°30'00\"E
L6	14.50	S13°30'00\"W
L7	10.63	S78°30'00\"E
L14	48.30	N79°15'00\"W
L15	128.13	S89°30'00\"W
L16	47.00	S89°30'00\"W
L17	14.50	N00°30'00\"W
L18	4.13	S89°30'00\"W
L19	14.50	N51°47'37\"W
L20	14.50	S68°36'06\"W
L21	263.70	S31°00'00\"E
L22	14.50	S59°00'00\"W
L23	131.05	S31°00'00\"E
L31	43.77	N63°00'00\"E
L32	181.31	S18°00'00\"W
L33	59.88	S18°00'00\"W
L34	45.31	S05°00'00\"W
L63	21.20	N72°15'00\"W
L64	18.23	N63°00'00\"E

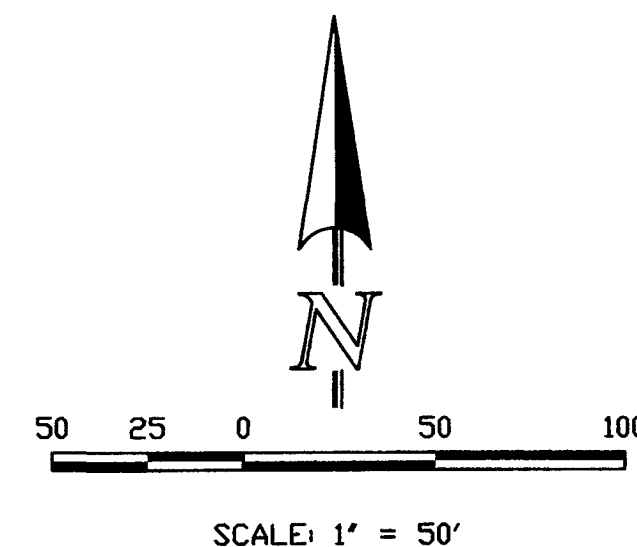
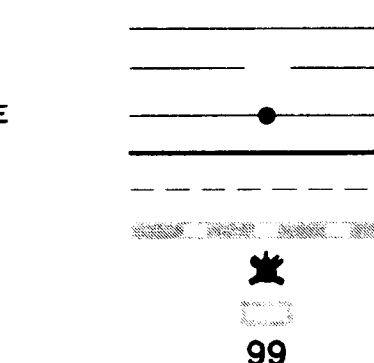
WATER CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	74.87	990.00	4°20'00\"
C2	113.12	290.00	22°20'55\"
C3	256.78	290.00	50°43'56\"
C4	327.34	310.00	60°30'00\"
C11	259.62	290.00	51°17'37\"
C12	311.90	290.00	61°17'18\"
C13	38.39	290.00	7°35'05\"
C17	111.63	492.00	13°00'00\"
C18	66.99	308.00	12°27'40\"
C30	14.78	290.00	02°55'09\"

#### WATER NOTES:

- SEE SHEET 25 FOR MJ RESTRAINT LENGTHS.
- ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

#### LEGEND

- PROPOSED SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED STORM SEWER
- PROPOSED FIRE HYDRANT
- PROPOSED STORM INLET
- LOT NUMBER



**NOTE:**  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS

**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

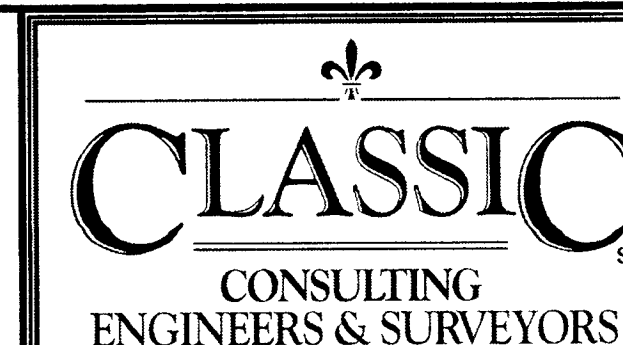
DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

2/15/17  
DATE



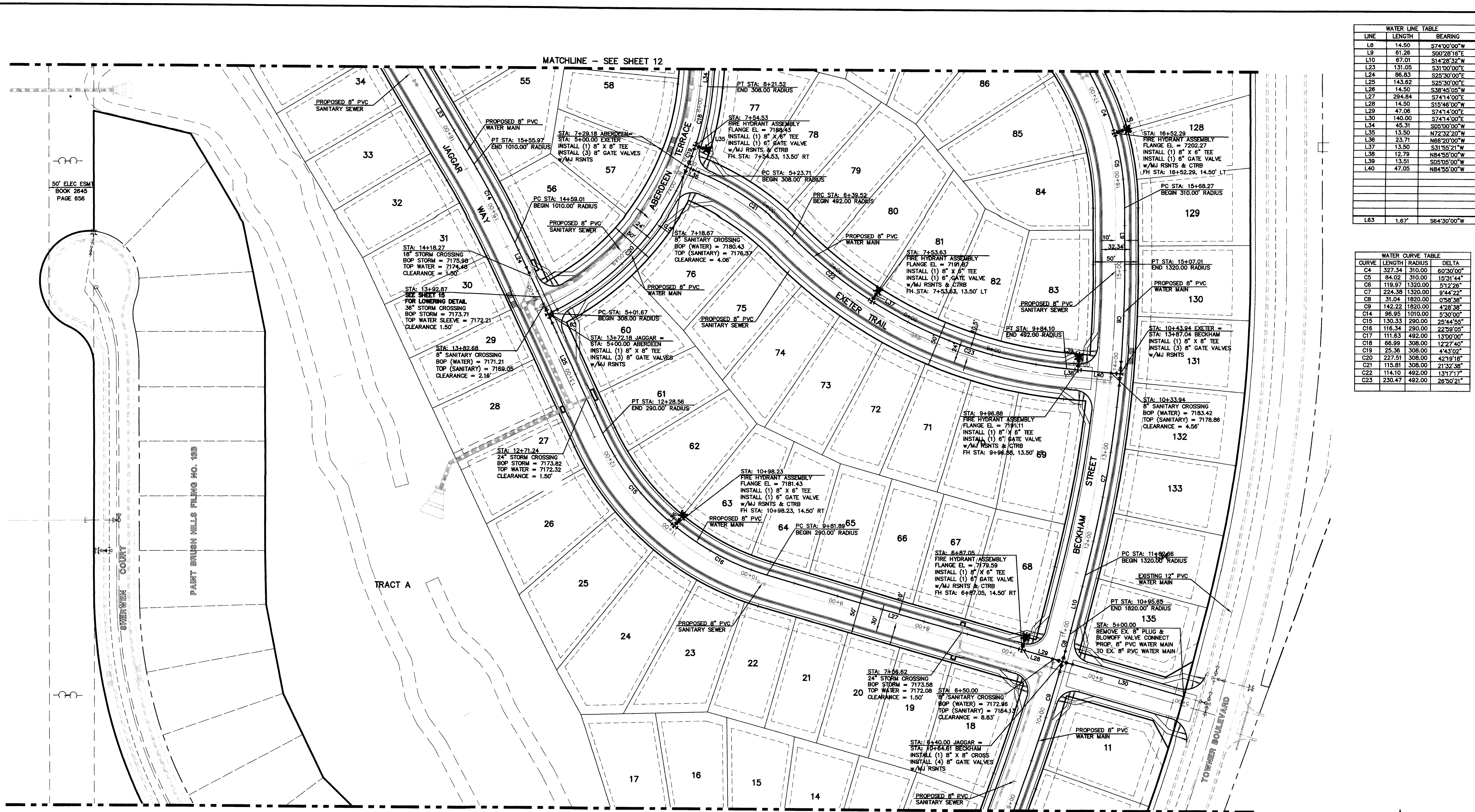
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
WATER SYSTEM PLAN

DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1" = 50'	SHEET	12 OF 26
CHECKED BY	(V) 1" = N/A	JOB NO.	2053.40	

CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS



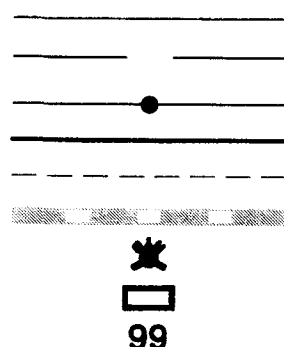


WATER LINE TABLE		
LINE	LENGTH	BEARING
L6	14.50	S74°00'00"W
L9	61.26	S00°28'16"E
L10	87.01	S14°28'32"W
L23	131.05	S31°00'00"E
L24	86.83	S25°30'00"E
L25	143.62	S25°30'00"E
L26	14.50	S38°45'05"W
L27	294.84	S74°14'00"E
L28	14.50	S15°46'00"W
L29	47.06	S74°14'00"E
L30	140.00	S74°14'00"E
L34	45.31	S05°00'00"W
L35	13.50	N72°32'20"W
L36	23.71	N68°20'00"W
L37	13.50	S31°59'21"W
L38	12.79	N84°55'00"W
L39	13.51	S05°05'00"W
L40	47.05	N84°55'00"W
L63	1.67	S64°30'00"W

WATER CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C4	327.34	310.00	60°30'00"
C5	84.02	310.00	15°31'44"
C6	119.97	1320.00	51°2'26"
C7	224.38	1320.00	8°44'22"
C8	31.04	1820.00	0°58'38"
C9	142.22	1820.00	4°28'38"
C14	96.95	1010.00	5°30'00"
C15	130.33	290.00	29°44'55"
C16	116.34	290.00	22°59'05"
C17	111.63	492.00	13°00'00"
C18	66.99	308.00	12°27'40"
C19	25.36	308.00	4°43'02"
C20	227.51	308.00	42°19'18"
C21	115.81	308.00	21°32'38"
C22	114.10	492.00	13°17'17"
C23	230.47	492.00	26°50'21"

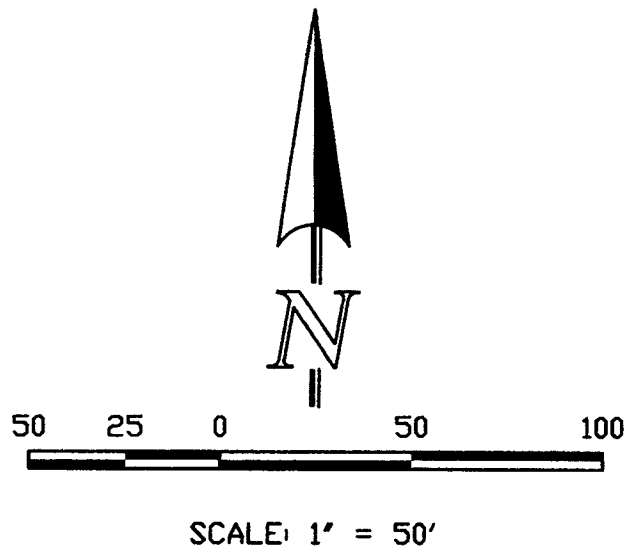
**WATER NOTES:**  
1. SEE SHEET 25 FOR MJ RESTRAINT LENGTHS.  
2. ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

**LEGEND**  
PROPOSED SANITARY SEWER MAIN  
EXISTING SANITARY SEWER MAIN  
PROPOSED SANITARY SEWER MANHOLE  
PROPOSED WATER MAIN  
EXISTING WATER MAIN  
PROPOSED STORM SEWER  
PROPOSED FIRE HYDRANT  
PROPOSED STORM INLET  
LOT NUMBER



**NOTE:**  
ALL FIRE HYDRANTS TO BE INSTALLED 7.0' BEHIND TBC.

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION OF COLORADO IT'S THE LAW  THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>													DATE <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>													REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  MARC A. WHORTON, COLORADO P.E. #37155 DATE: 12/15/17	<b>CLASSIC</b> CONSULTING ENGINEERS & SURVEYORS 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 786-0790 (719) 786-0799 (Fax)	PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS WATER SYSTEM PLAN  DESIGNED BY: PRA SCALE: (H) 1" = 50' (V) 1" = N/A DATE: 12-12-16 SHEET: 13 OF 26 JOB NO.: 2053.40





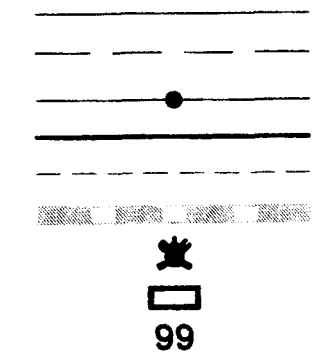
MATCHLINE - SEE SHEET 13

**WATER NOTES:**

- SEE SHEET 25 FOR MJ RESTRAINT LENGTHS.
- ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

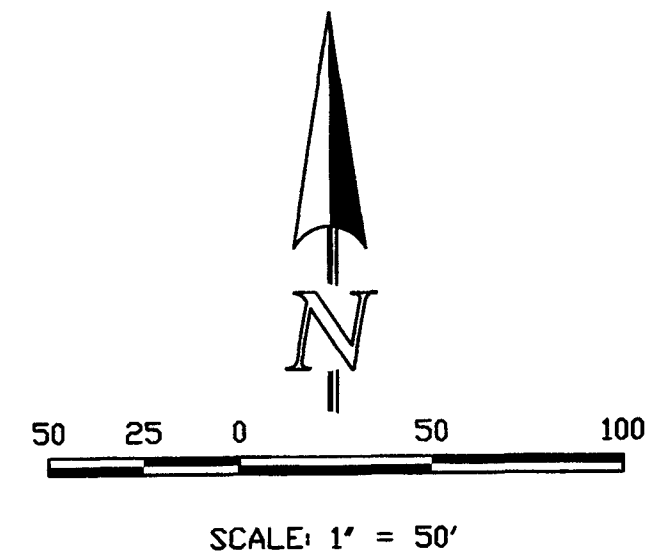
**LEGEND**

PROPOSED SANITARY SEWER MAIN  
EXISTING SANITARY SEWER MAIN  
PROPOSED SANITARY SEWER MANHOLE  
PROPOSED WATER MAIN  
EXISTING WATER MAIN  
PROPOSED STORM SEWER  
PROPOSED FIRE HYDRANT  
PROPOSED STORM INLET  
LOT NUMBER



WATER CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C9	142.22	1820.00	4°28'38"
C10	107.51	510.00	12°04'43"
C24	236.84	360.00	38°00'48"
C25	134.92	360.00	21°28'25"

WATER LINE TABLE		
LINE	LENGTH	BEARING
L11	170.14	S19°55'48"W
L12	111.09	S19°55'48"W
L13	12.82	N18°01'55"E
L14	20.82	N18°01'55"E
L41	47.00	N70°04'12"W
L42	14.50	N19°55'48"E
L43	102.33	N70°04'12"W
L44	14.50	S18°05'00"E



**NOTE:**  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

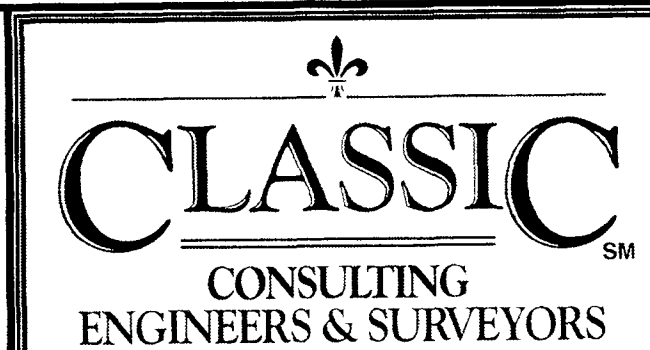
DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE



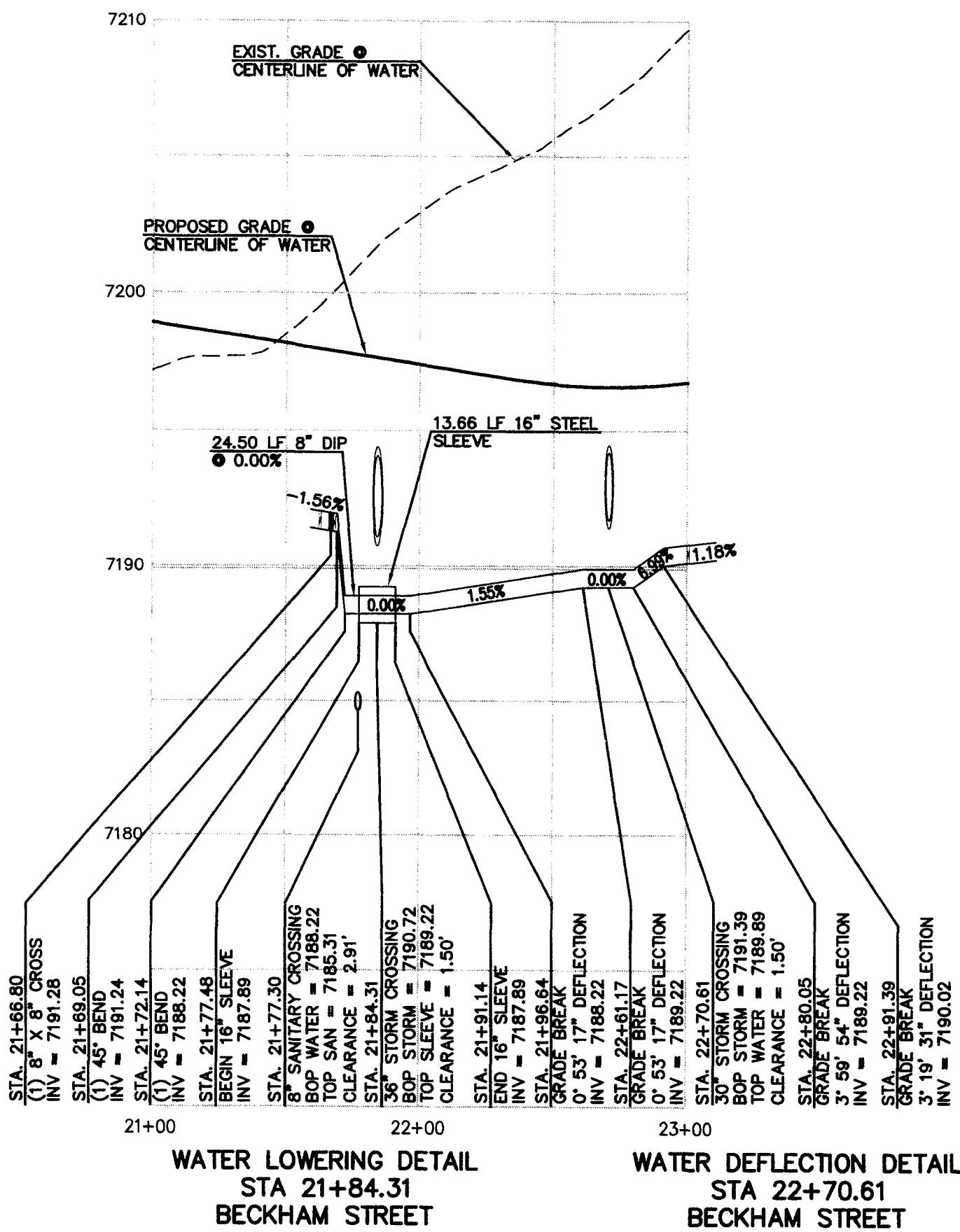
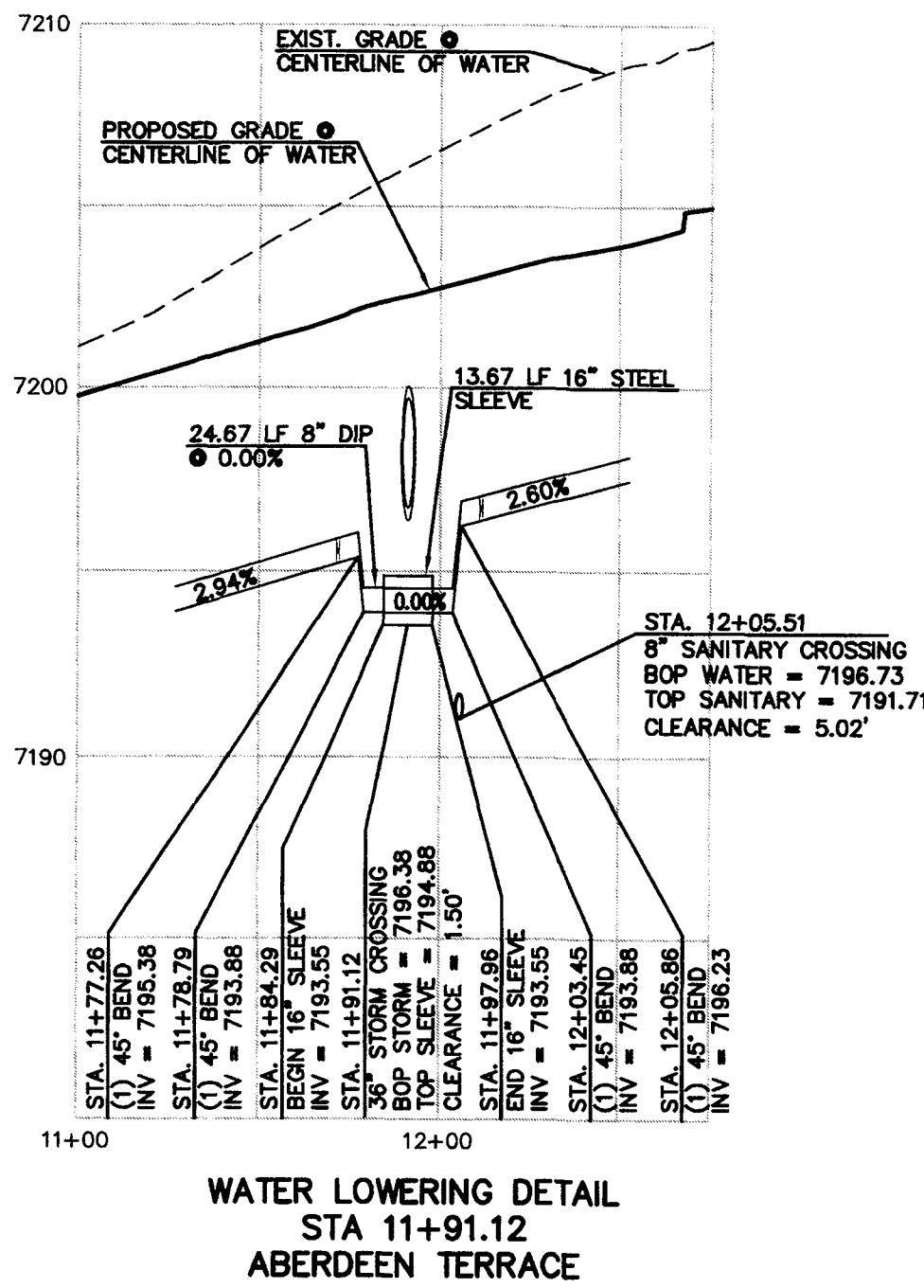
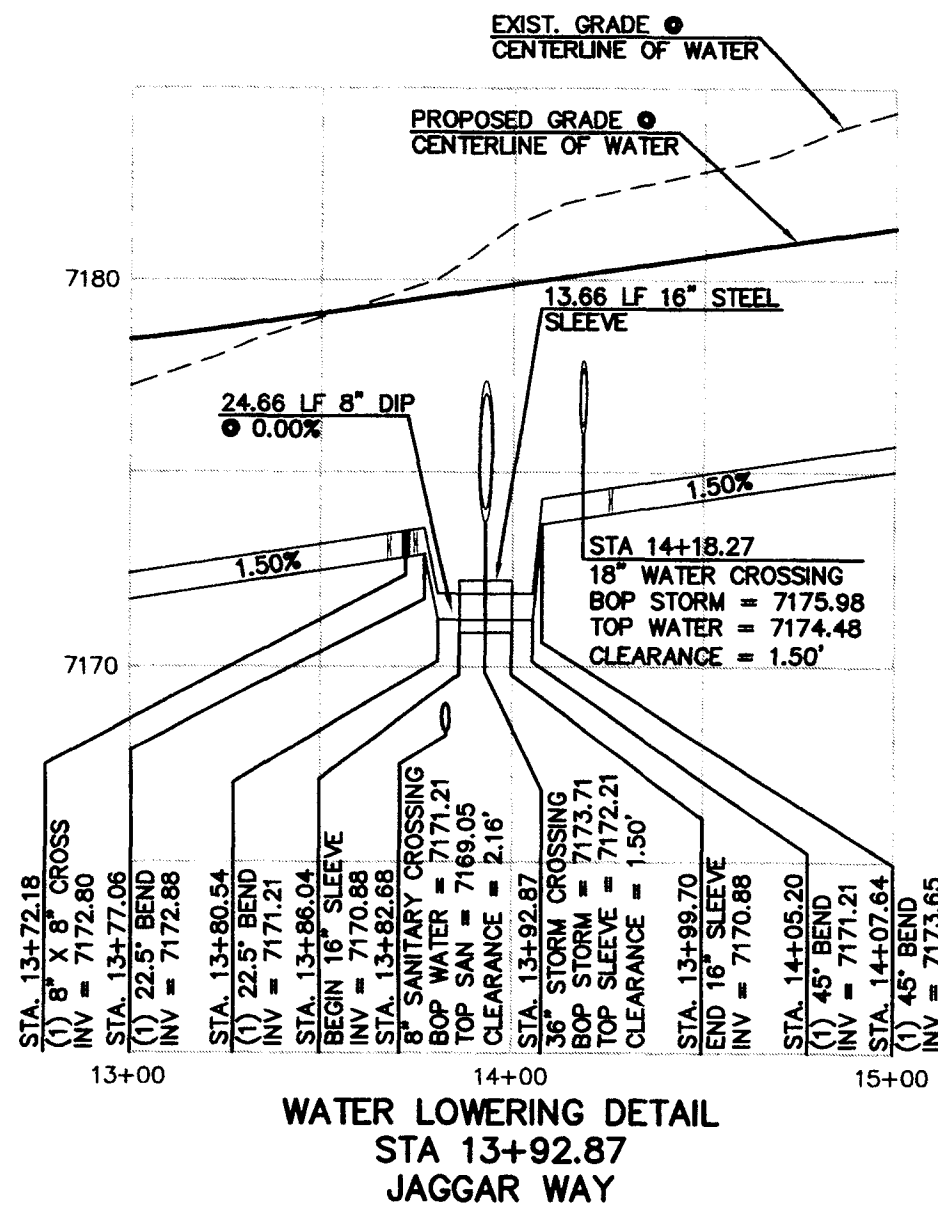
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
WATER SYSTEM PLAN

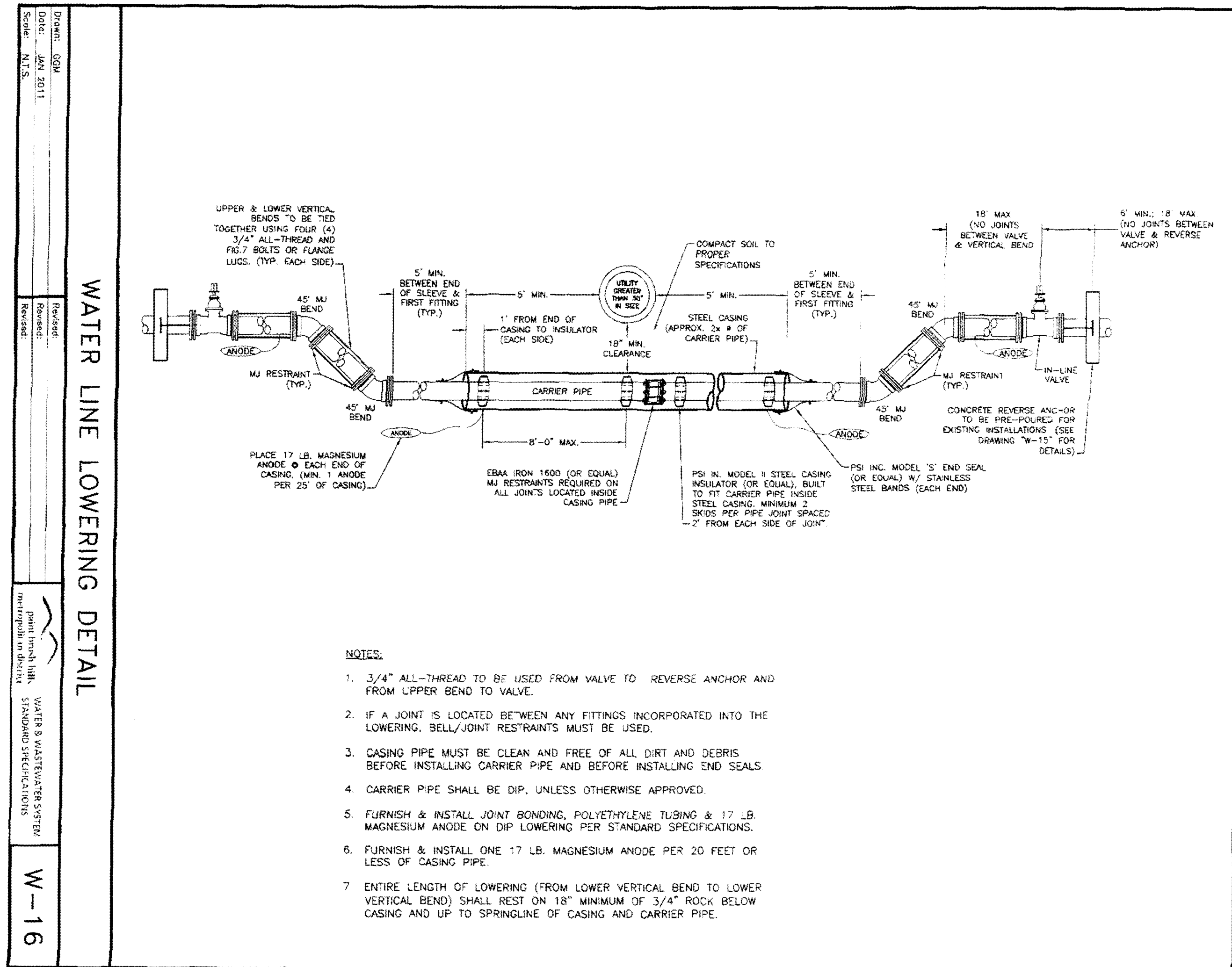
DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET	14 OF 26
CHECKED BY	(V) 1"= N/A	JOB NO.	2053.40	

CLASSIC  
CONSULTING ENGINEERS & SURVEYORS

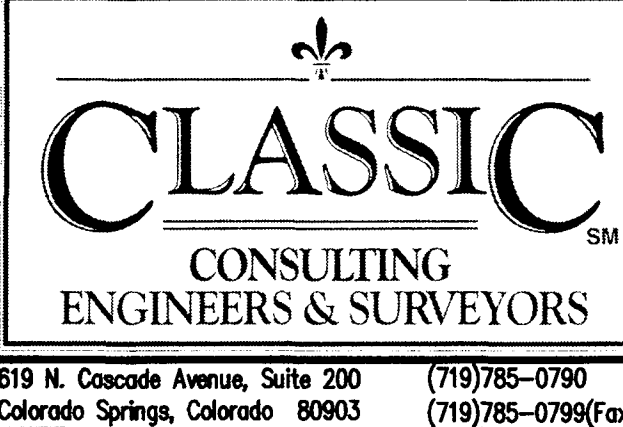




NOTE:  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

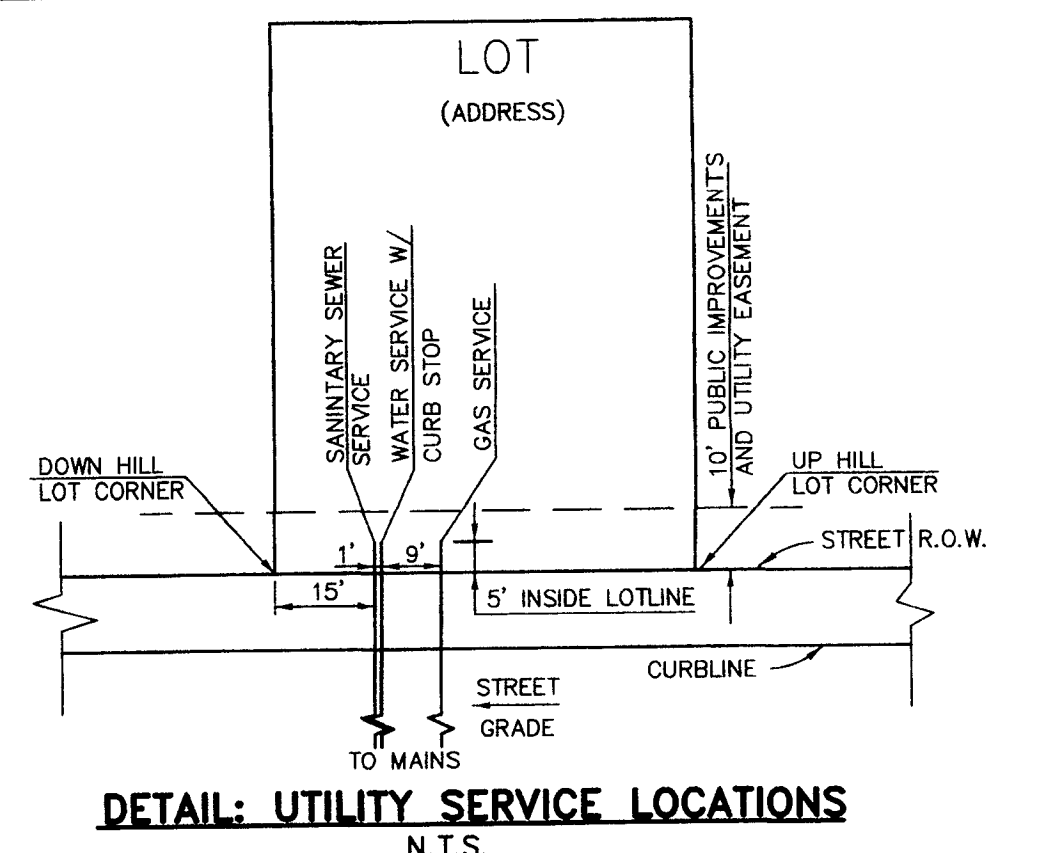
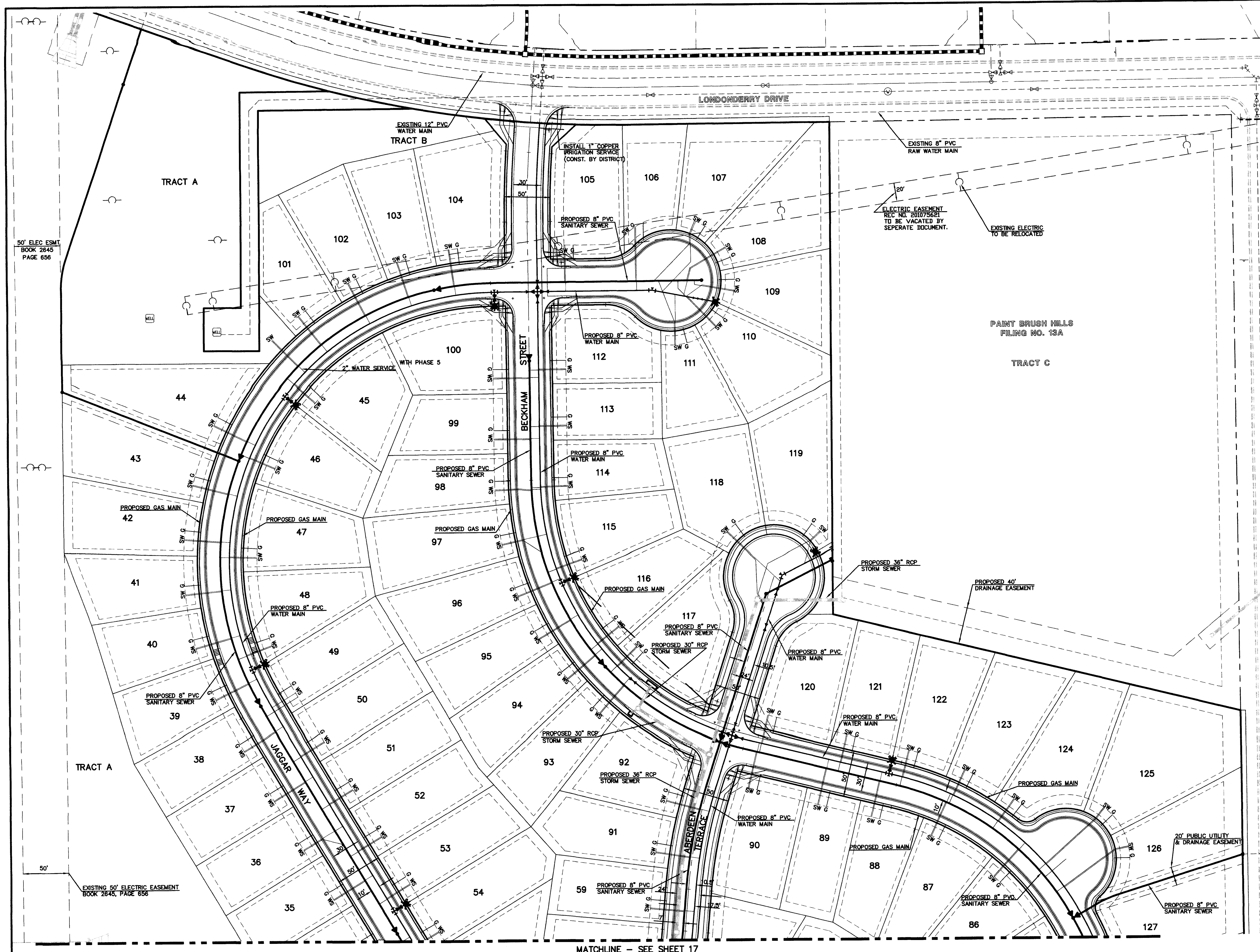


48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION DATE	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WHORTON, COLORADO P.E. #37155 DATE 2/18/17	PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS WATER SYSTEM PLANS WATER LOWERING DETAILS DESIGNED BY PRA SCALE DATE 12-12-16 DRAWN BY PRA (H) 1"= 50' SHEET 15 OF 26 CHECKED BY (V) 1"= 5' JOB NO. 2053.40
---	----------------------	--	---

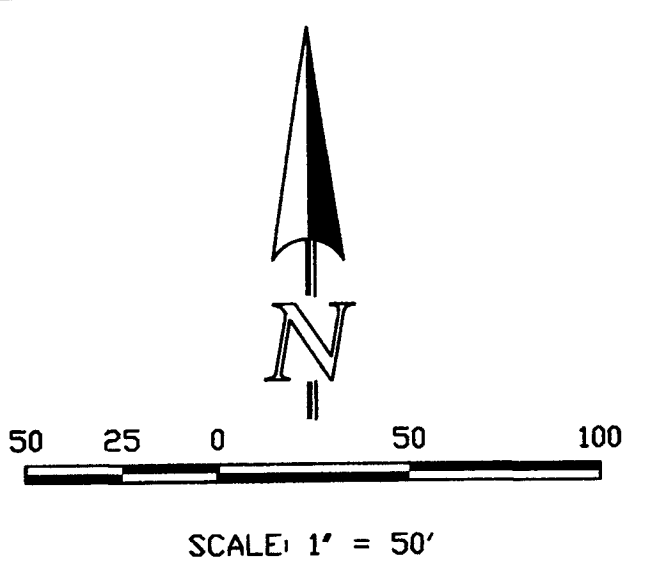
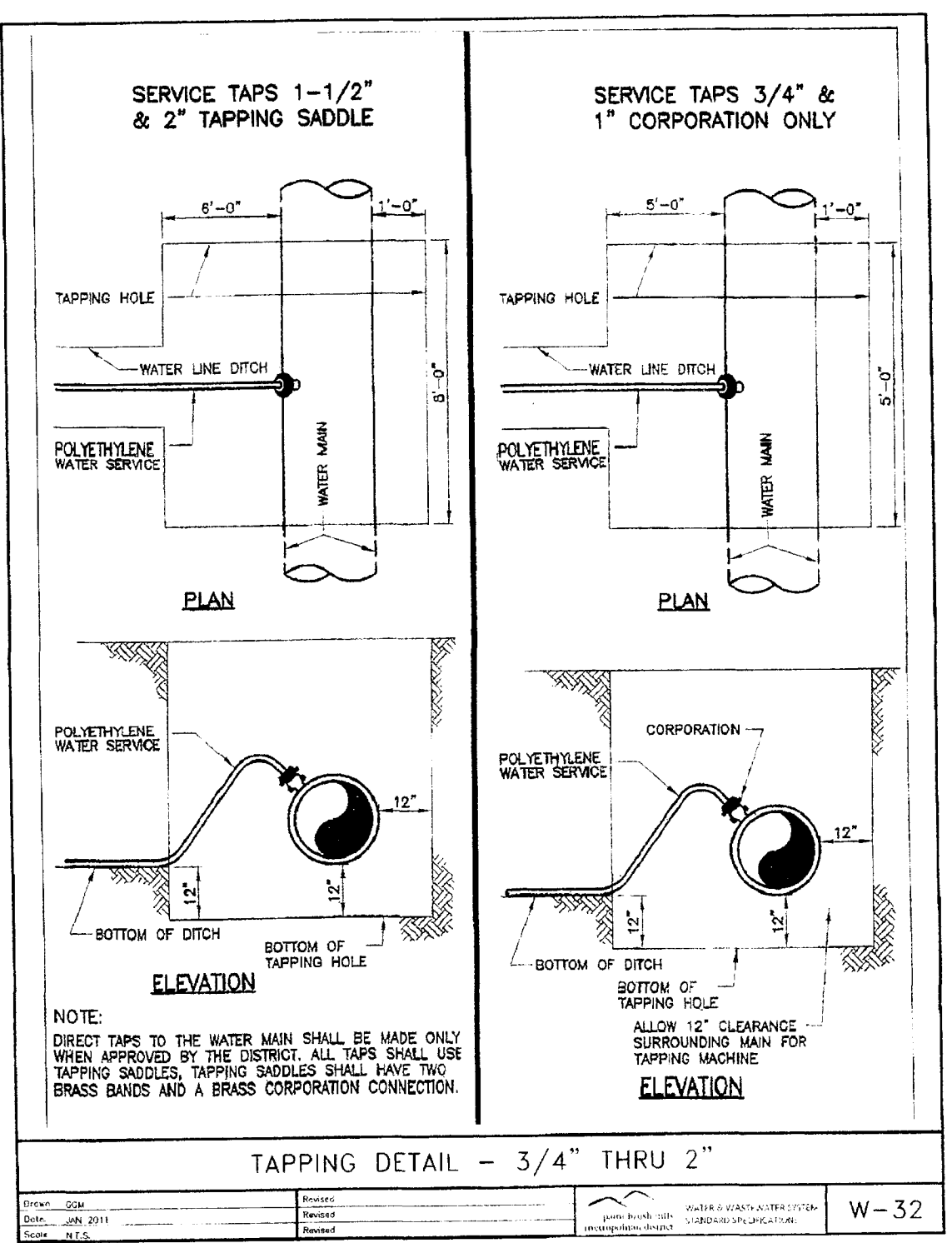




N:\2013\DRAWINGS\CONSTRUCTION\13C\205340-SHEET-16.dwg, 12/12/2016 6:50:18 AM, DWG To PDF, pc3



- NOTES:
- 1.) DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
  - 2.) SEE PAINT BRUSH HILLS METRO. DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
  - 3.) FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
  - 4.) PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF GROUND 36 INCHES FROM FLOWLINE.
  - 5.) WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4' BELOW FINISH GRADE.
  - 6.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
  - 7.) RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
  - 8.) ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
  - 9.) ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
  - 10.) ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
  - 11.) HOMEOWNER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
  - 12.) MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS



- LEGEND**
- PROPOSED SANITARY SEWER MAIN
  - PROPOSED SANITARY SEWER MANHOLE
  - PROPOSED WATER MAIN
  - PROPOSED STORM SEWER
  - PROPOSED FIRE HYDRANT
  - PROPOSED SANITARY SEWER SERVICE
  - PROPOSED WATER SERVICE
  - PROPOSED GAS SERVICE
  - PROPOSED STORM INLET
  - LOT NUMBER
  - ADDRESS
  - NON-TYPICAL SERVICE LOCATION

**NOTE:**  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

**WATER NOTES:**  
ALL VALVES SHOWN FOR SCHEMATIC PURPOSES  
ONLY. NO VALVES SHALL BE INSTALLED  
IN CURB AND GUTTER OR CROSSPANS.

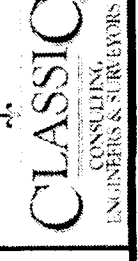
48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION OF COLORADO IT'S THE LAW		NO. REVISION		DATE	
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.					
REVIEW:		PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC			
MARC A. WHORTON, COLORADO P.E. #37155		DATE 2/10/17			

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

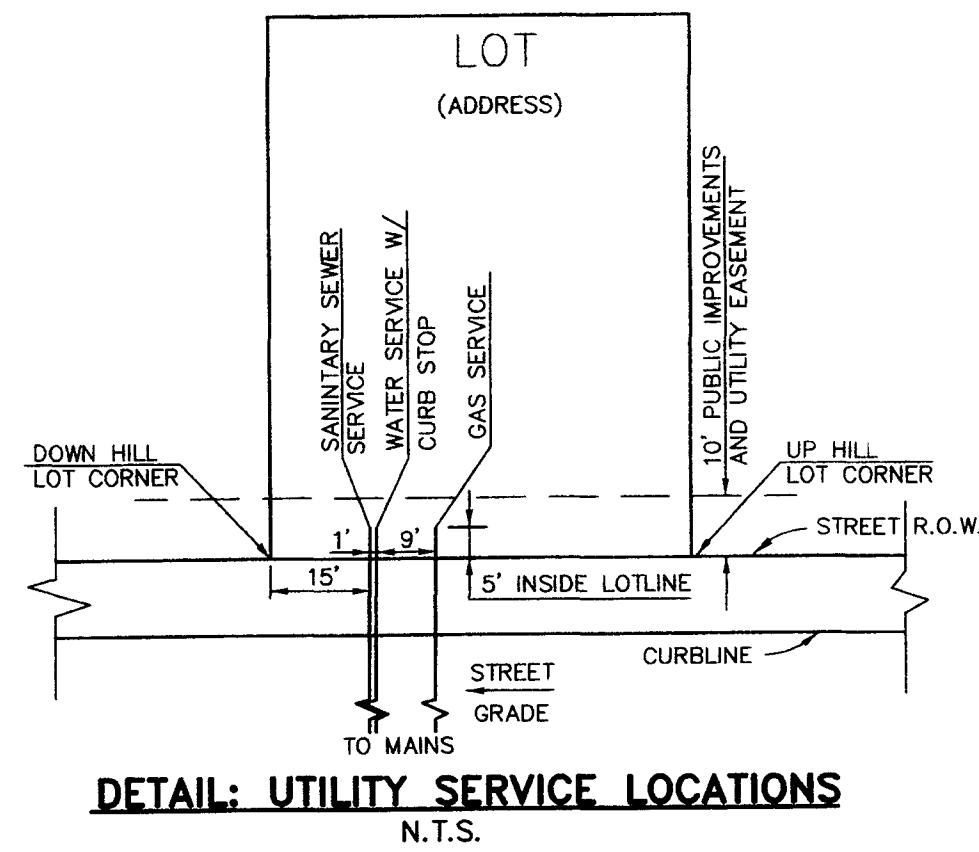
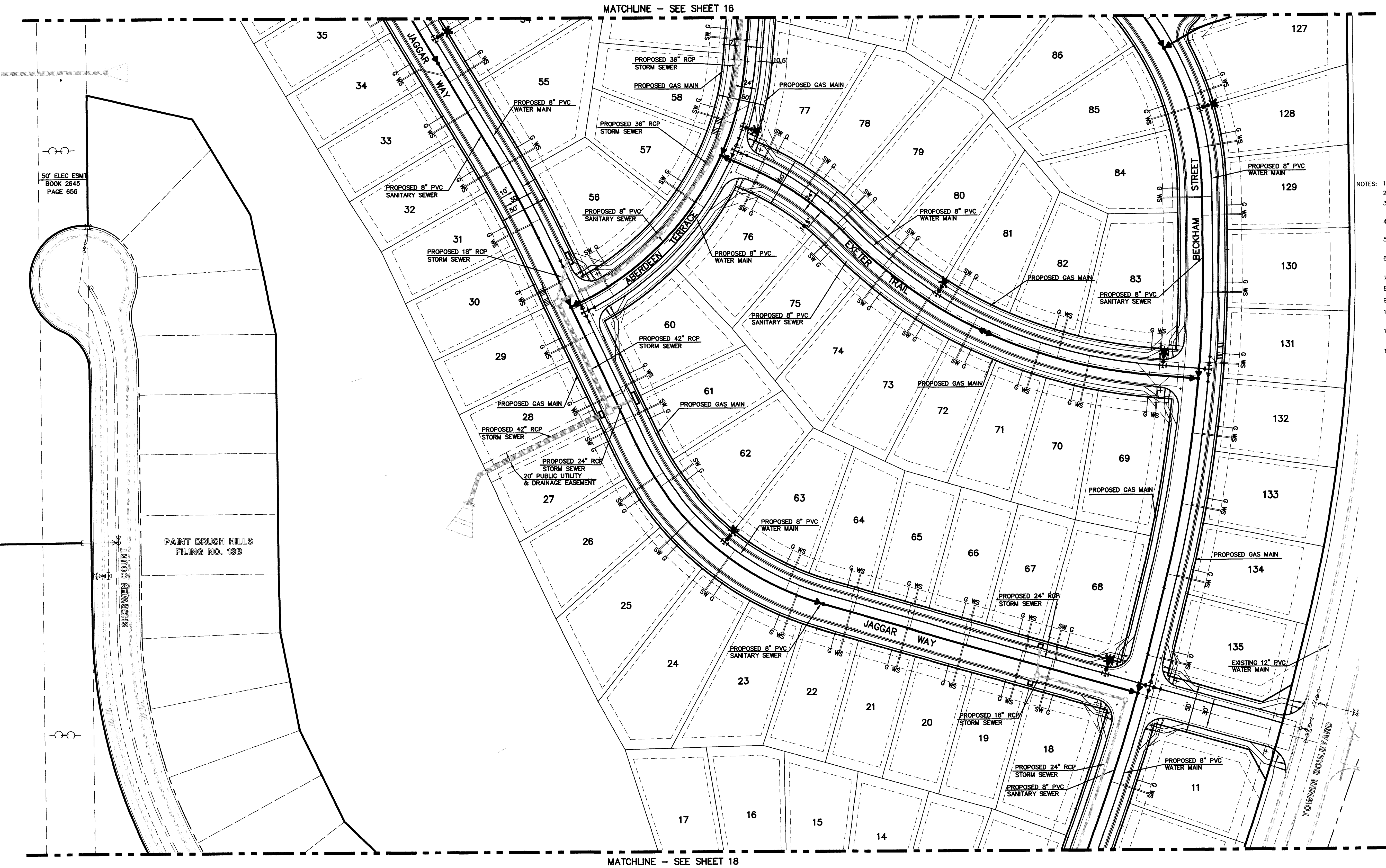
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS UTILITY SERVICE PLAN			
DESIGNED BY	PRA	SCALE	DATE 12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET 16 OF 26
CHECKED BY	(V) 1"= N/A	JOB NO.	2053.40







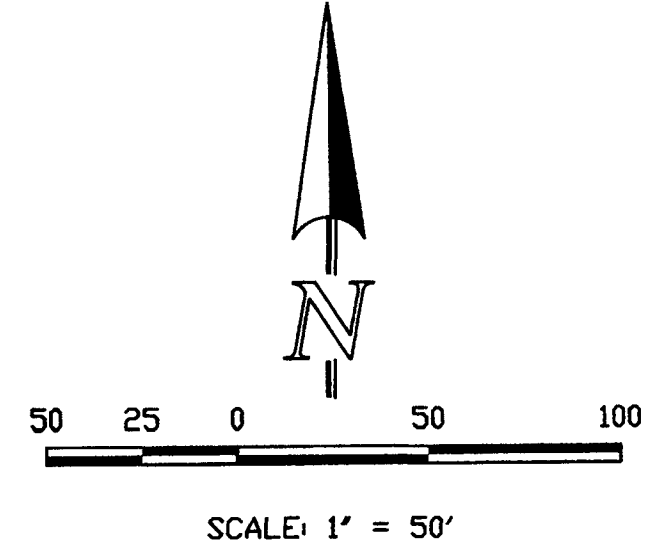
- NOTES:
- 1.) DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
  - 2.) SEE PAINT BRUSH HILLS METRO. DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
  - 3.) FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
  - 4.) PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF GROUND 36 INCHES FROM FLOWLINE.
  - 5.) WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4' BELOW FINISH GRADE.
  - 6.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
  - 7.) RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
  - 8.) ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
  - 9.) ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
  - 10.) ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
  - 11.) HOMEOWNER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
  - 12.) MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS

**WATER NOTES:**

ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

**LEGEND**

- PROPOSED SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED WATER MAIN
- PROPOSED STORM SEWER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED WATER SERVICE
- PROPOSED GAS SERVICE
- PROPOSED STORM INLET
- LOT NUMBER
- ADDRESS
- NON-TYPICAL SERVICE LOCATION

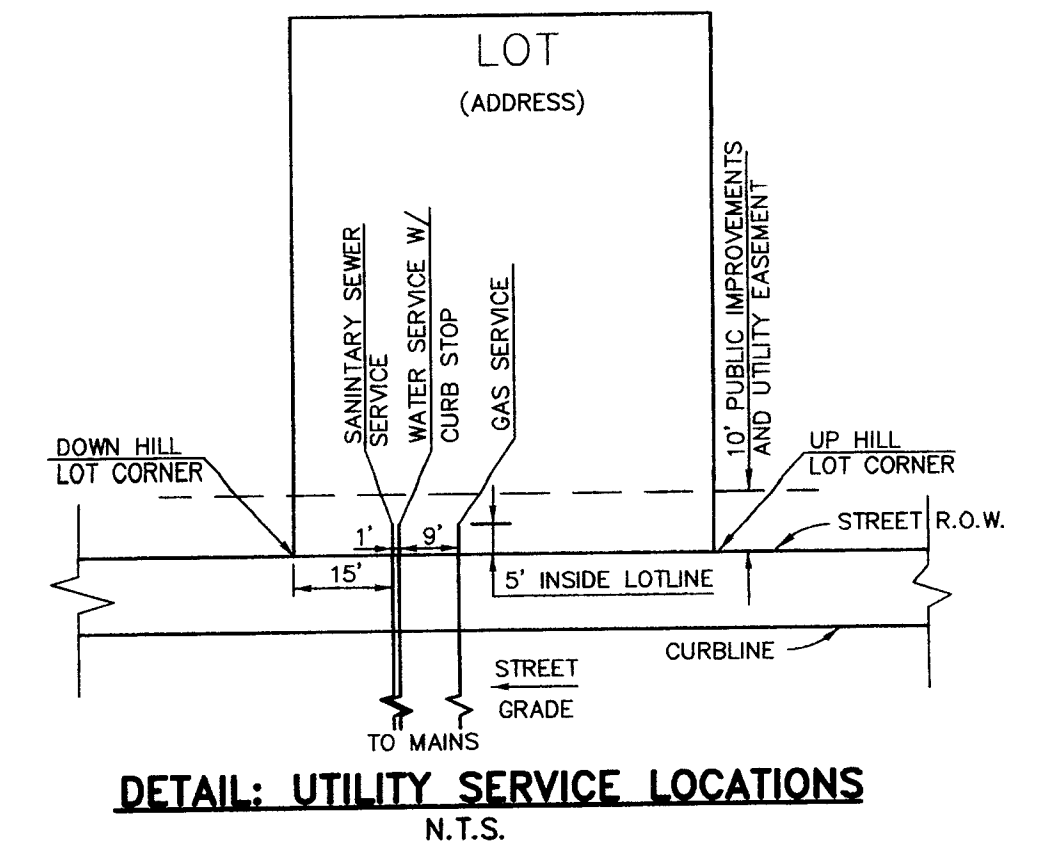
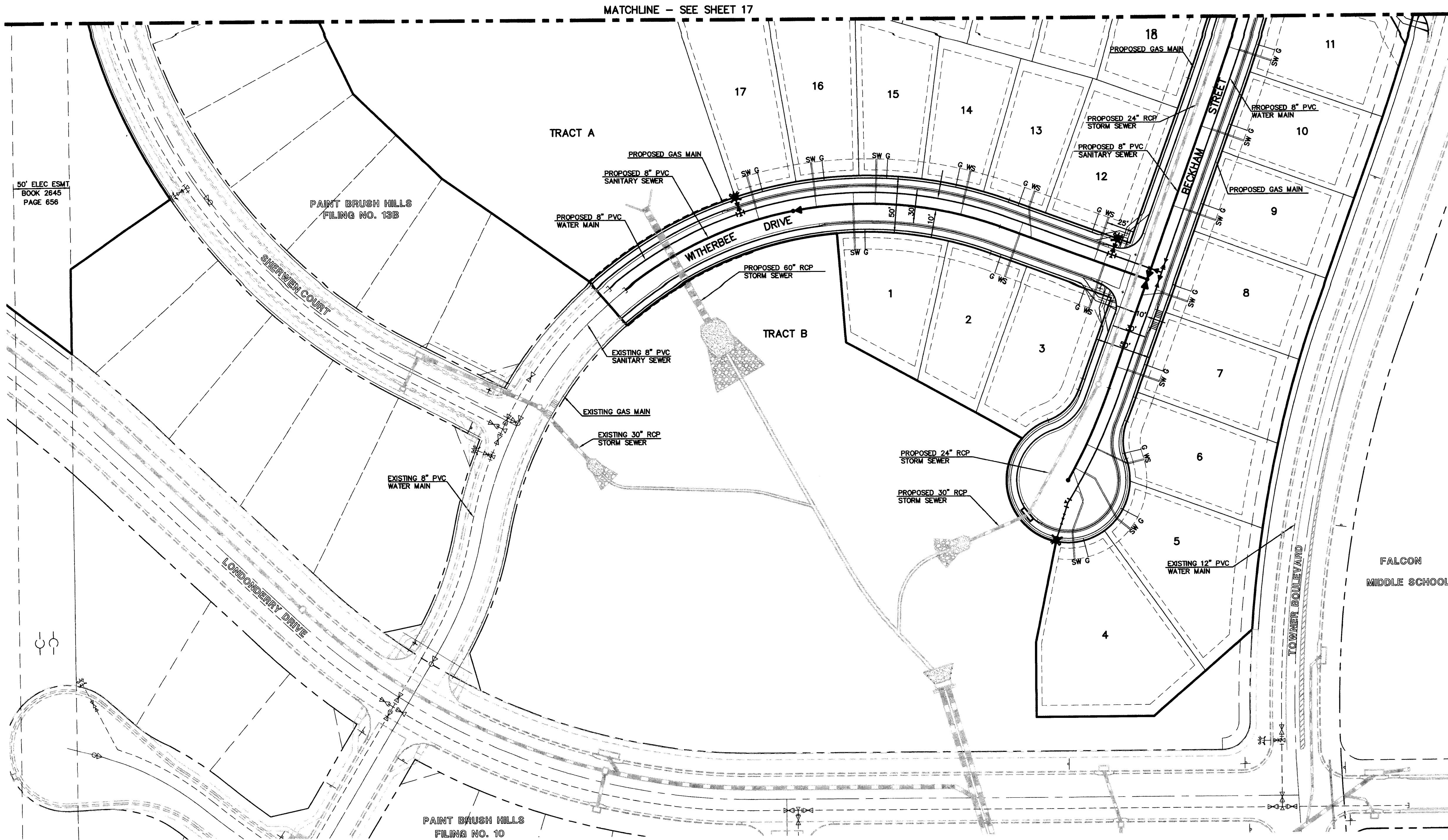


**NOTE:**  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

<b>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811</b> UTILITY NOTIFICATION OF COLORADO IT'S THE LAW <small>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</small>	NO. REVISION	DATE	REVIEW:
			MARC A. WHORTON, COLORADO P.E. #37155
			2/6/17
			DATE
			519 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799(fax)
<b>PAINT BRUSH HILLS FILING NO. 13C CONSTRUCTION PLANS UTILITY SERVICE PLAN</b>			
DESIGNED BY	PRA	SCALE	DATE
DRAWN BY	PRA	(H) 1"= 50'	SHEET 17 OF 26
CHECKED BY	(V) 1"= N/A	JOB NO.	2053.40

CLASSIC CONSULTING ENGINEERS & SURVEYORS





- NOTES:
- 1.) DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
  - 2.) SEE PAINT BRUSH HILLS METRO. DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
  - 3.) FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
  - 4.) PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF GROUND 36 INCHES FROM FLOWLINE.
  - 5.) WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4' BELOW FINISH GRADE.
  - 6.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
  - 7.) RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
  - 8.) ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
  - 9.) ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
  - 10.) ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
  - 11.) HOMEBUILDER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
  - 12.) MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS

**WATER NOTES:**

ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

**LEGEND**

PROPOSED SANITARY SEWER MAIN	—
PROPOSED SANITARY SEWER MANHOLE	●
PROPOSED WATER MAIN	—
PROPOSED STORM SEWER	—
PROPOSED FIRE HYDRANT	★
PROPOSED SANITARY SEWER SERVICE	S
PROPOSED WATER SERVICE	W
PROPOSED GAS SERVICE	G
PROPOSED STORM INLET	99
LOT NUMBER	(6585)
ADDRESS	99
NON-TYPICAL SERVICE LOCATION	..

**NOTE:**  
ALL FIRE HYDRANTS TO BE  
INSTALLED 7.0' BEHIND TBC.

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

2/10/17

DATE

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

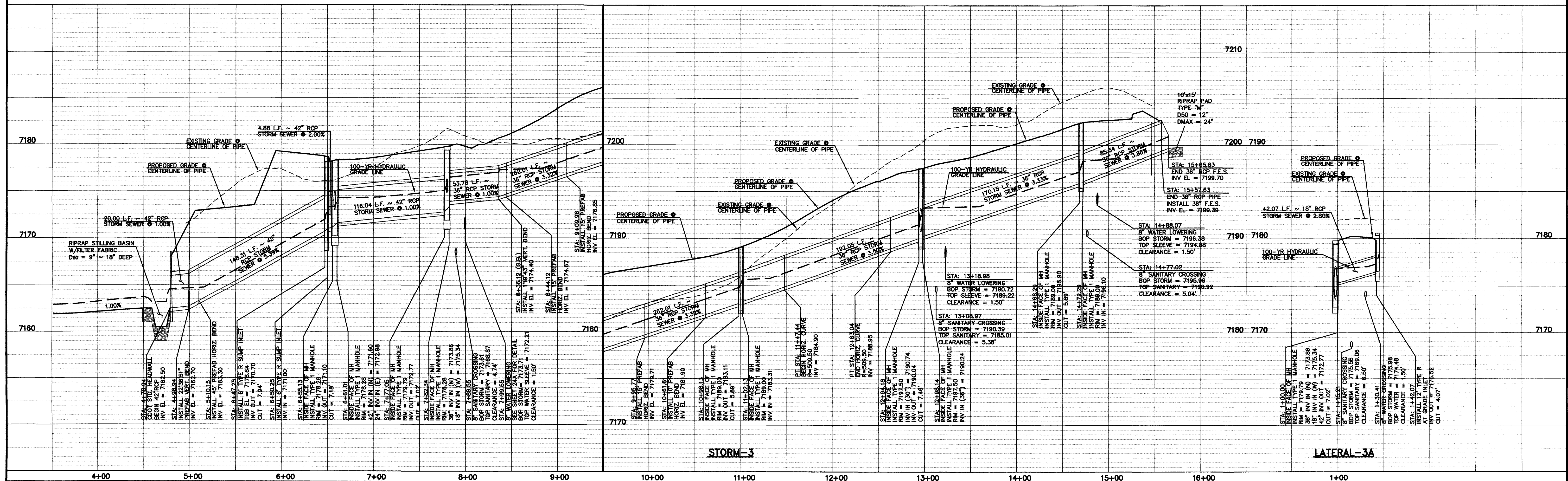
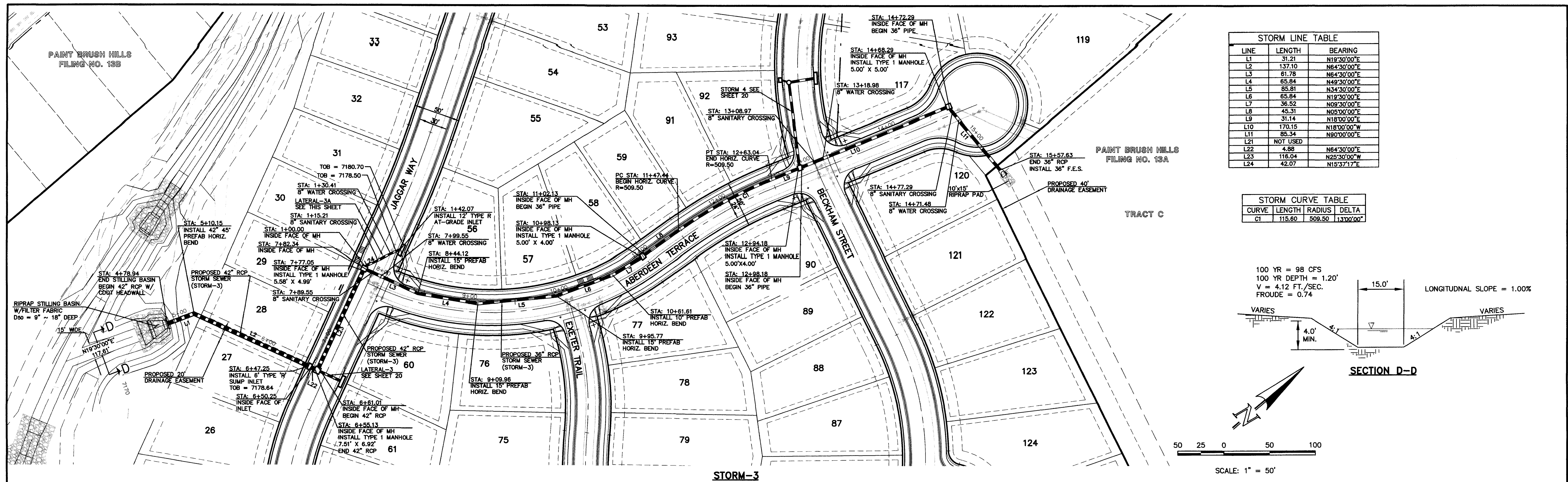
(719) 785-0790  
(719) 785-0799 (Fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
UTILITY SERVICE PLAN

DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1" = 50'	SHEET	18 OF 26
CHECKED BY	(V) 1" = N/A	JOB NO.	2053.40	

CLASSIC  
CONSULTING ENGINEERS & SURVEYORS





48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS

UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

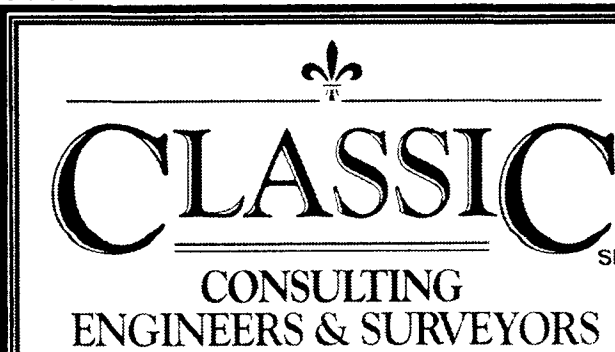
1	REVISED PER COUNTY COMMENTS
---	-----------------------------

DATE | REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE

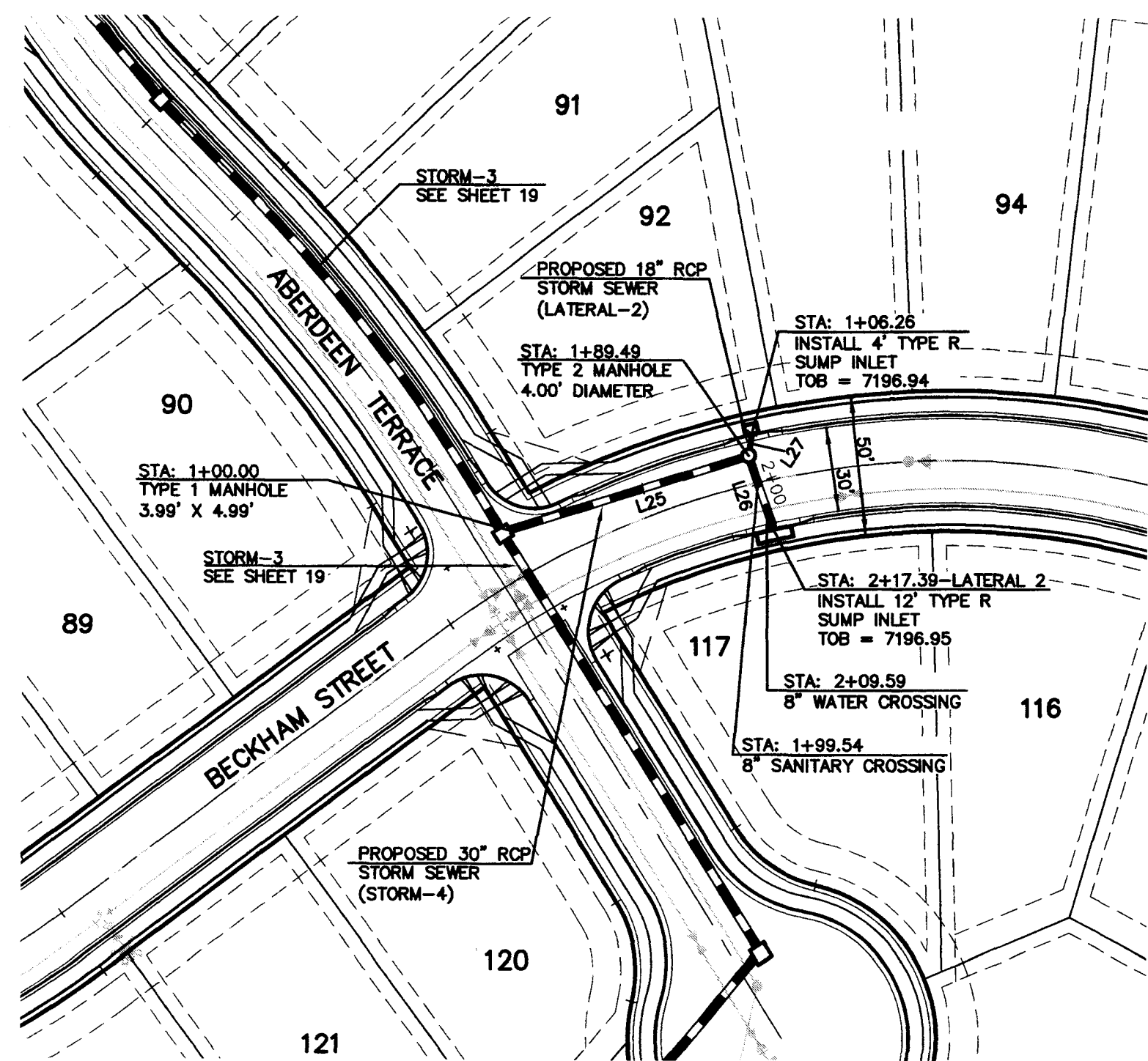


PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
STORM SEWER PLAN

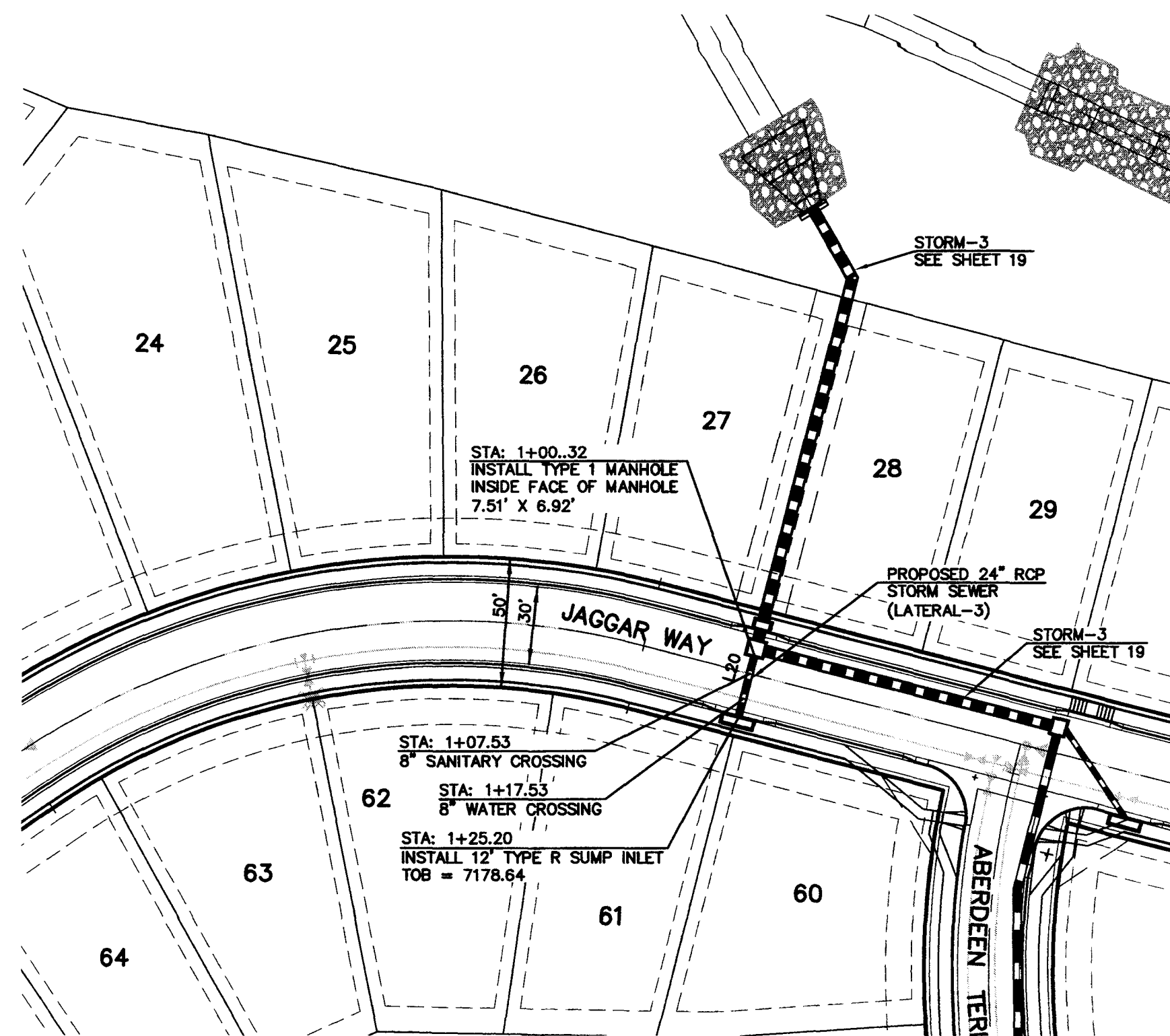
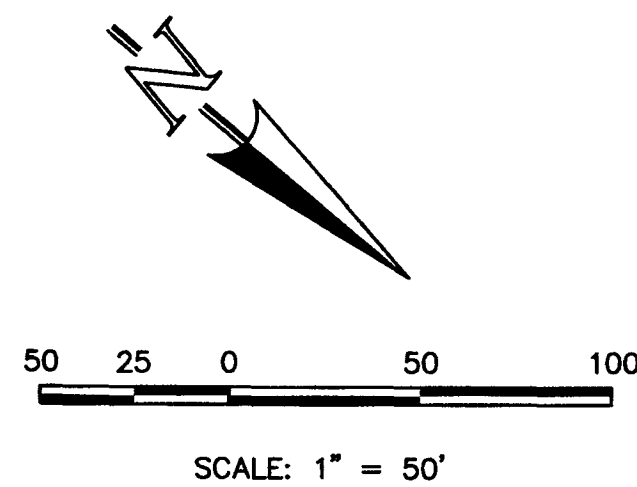
DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET	19 OF 26
CHECKED BY		(V) 1"= 5'	JOB NO.	2053.40

**CLASSIC**  
CONDENSING  
ENGINEERS & SURVEYORS



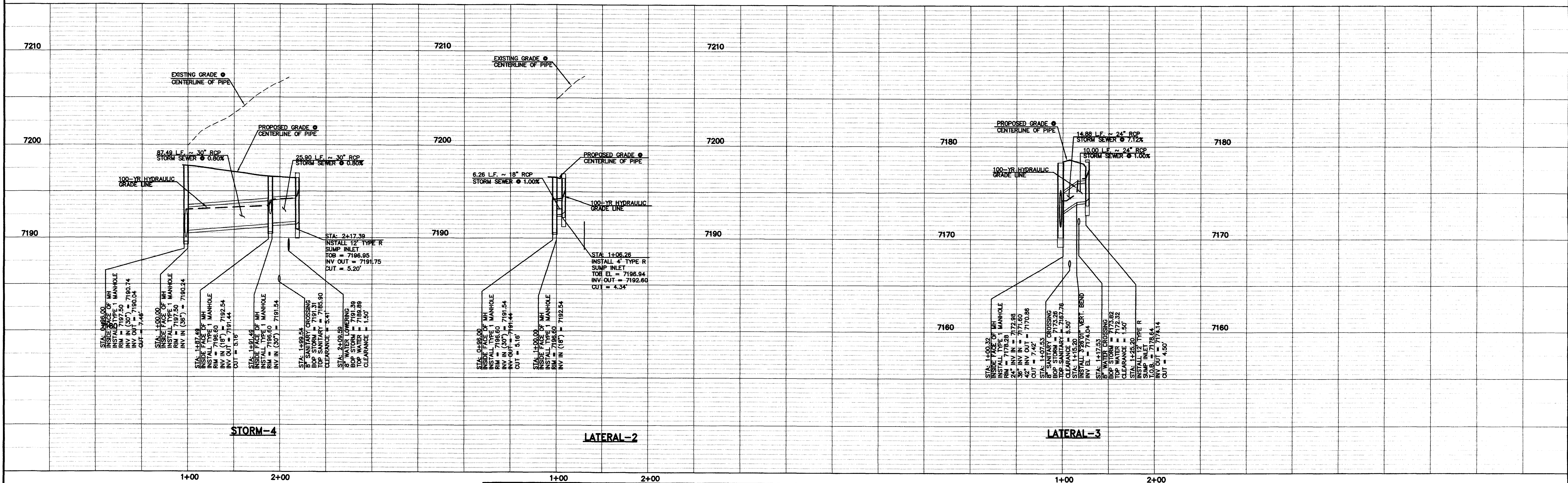
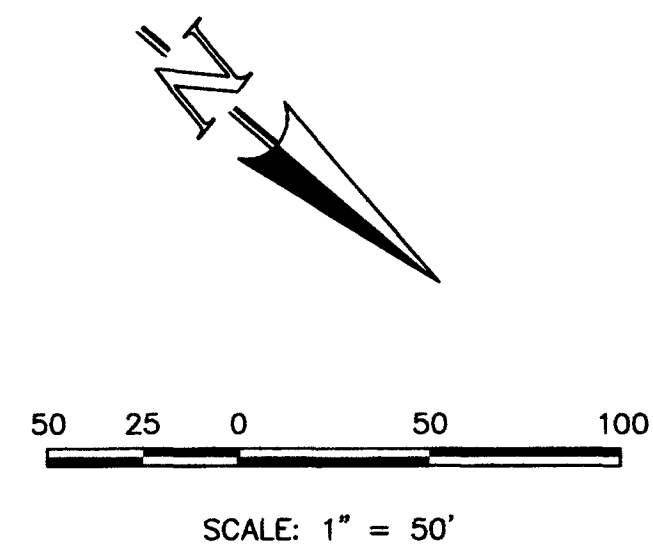


STORM-4 & LATERAL-2



LATERAL-3

STORM LINE TABLE		
LINE	LENGTH	BEARING
L20	24.88	N64°30'00"E
L25	87.49	N57°17'29"W
L26	25.90	S30°33'08"W
L27	8.25	S58°32'06"W



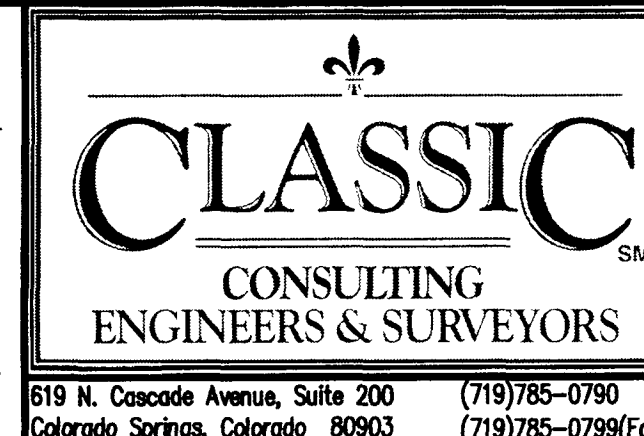
48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-17-16

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155  
DATE 2/10/17

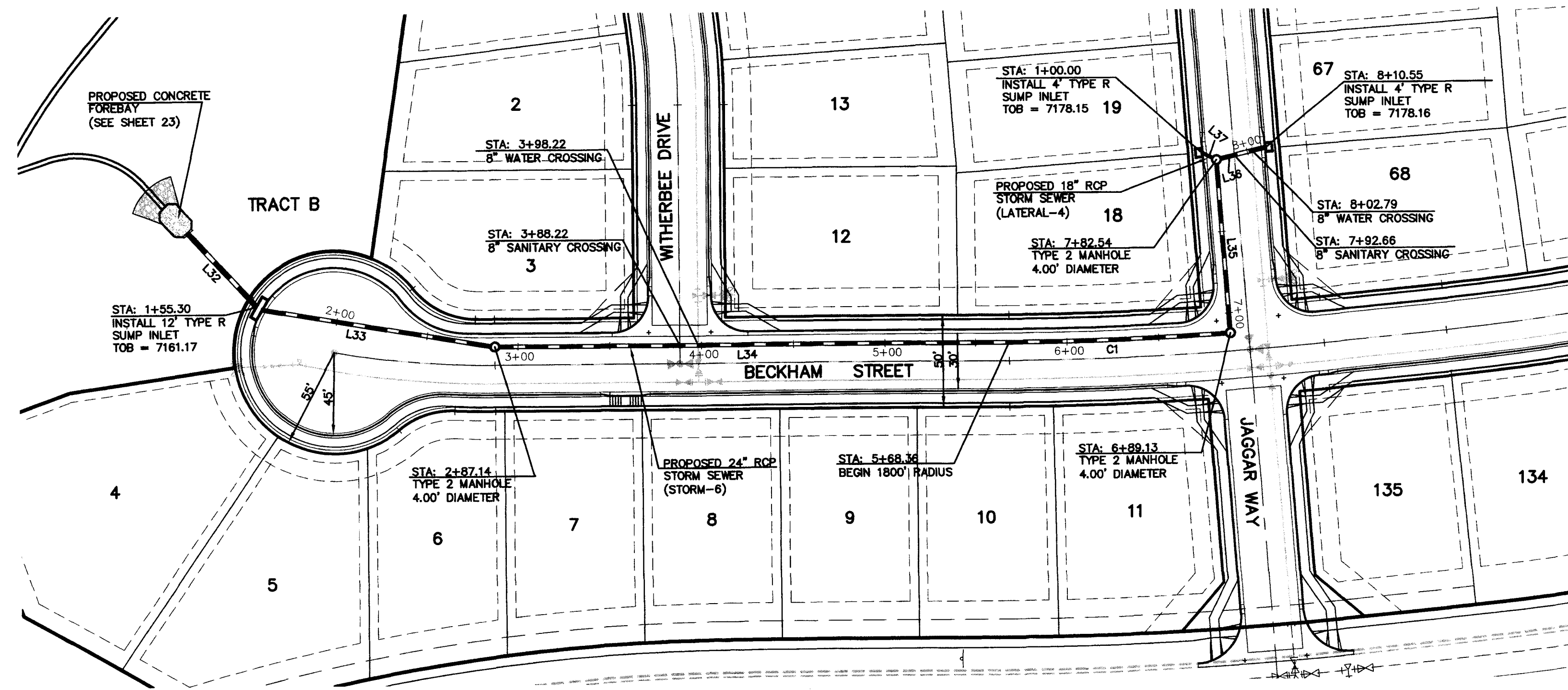


PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
STORM SEWER PLAN

DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= 50'	SHEET	20 OF 26
CHECKED BY	(V) 1"= 5'	JOB NO.	2053.40	

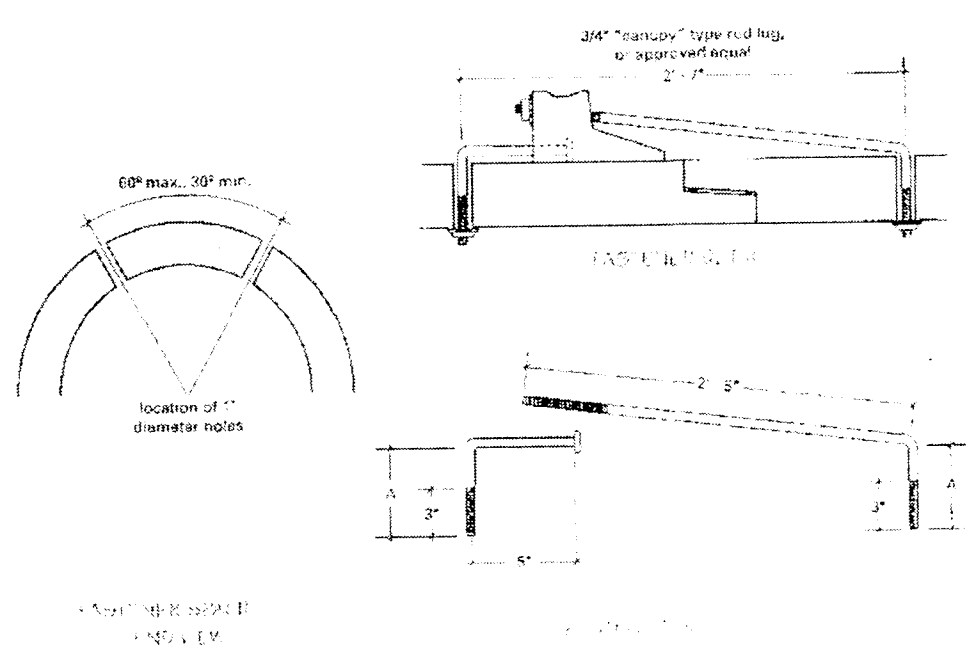
CLASSIC  
ENGINEERS & SURVEYORS





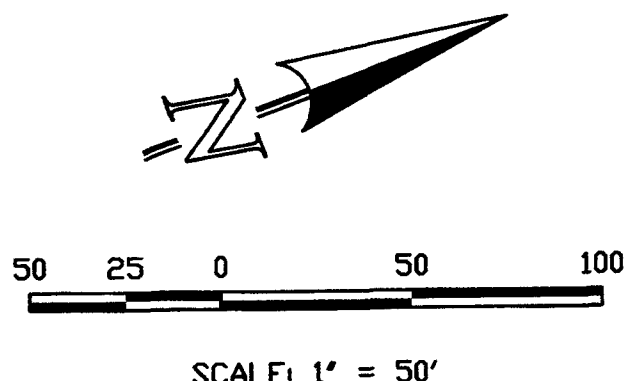
STORM LINE TABLE		
LINE	LENGTH	BEARING
L32	55.30	S88°52'43"W
L33	128.84	S28°26'32"W
L34	279.23	S19°25'48"W
L35	89.42	S74°14'00"E
L36	28.02	S06°40'27"W
L37	6.86	N45°46'00"E

STORM CURVE TABLE		
CURVE	LENGTH	RADIUS
C1	118.77	1800.00

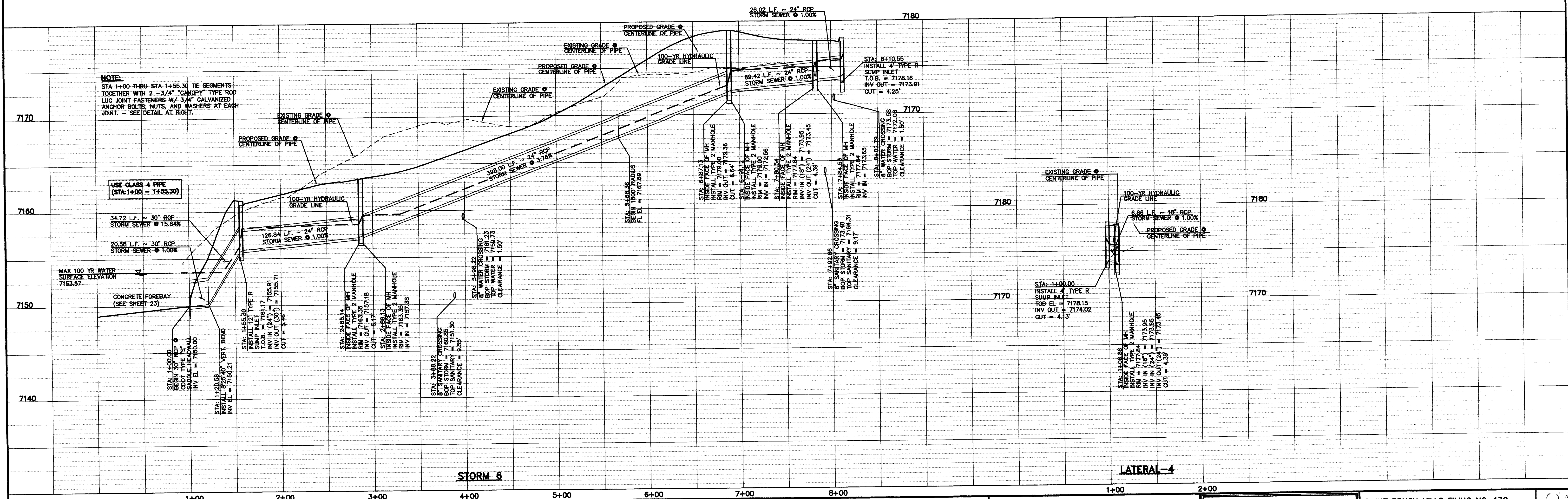


Pipe Diameter (inches)	A (inches)
12-15	6
18-24	8
30-36	10
42-48	12
60-72	15

JOINT LUG DETAIL (TYP.)



STORM 6  
LATERALS 4 & 5



STORM 6

LATERAL-4

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-18-16
2	REVISED PER FINAL COMMENTS	1-4-17

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE: 2/16/17

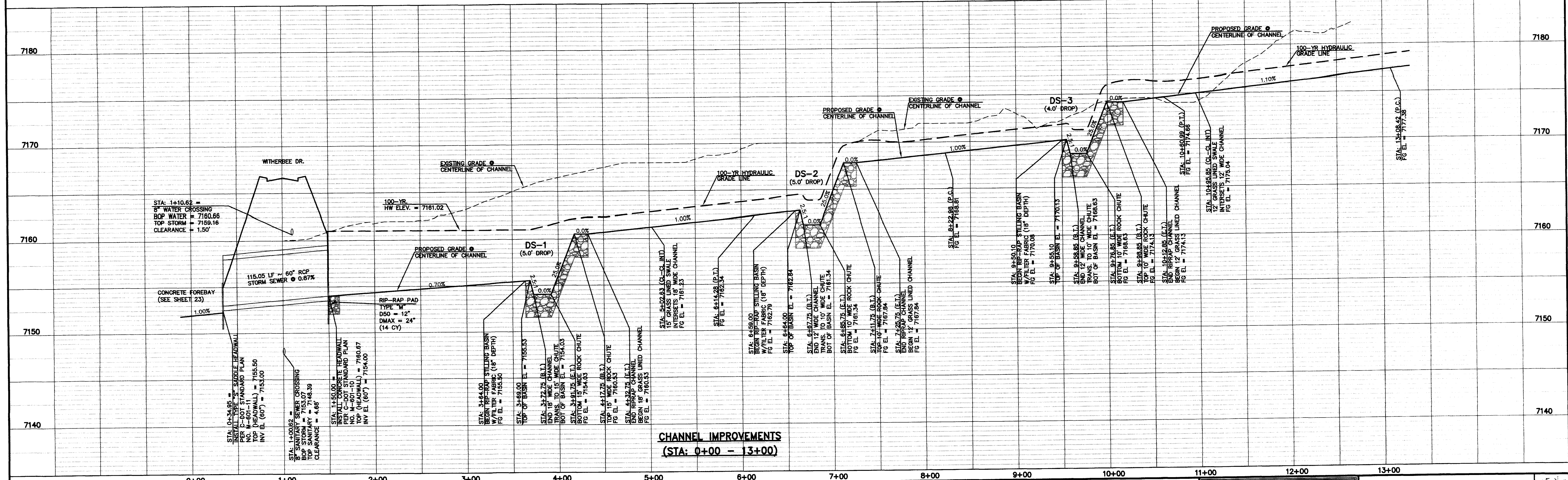
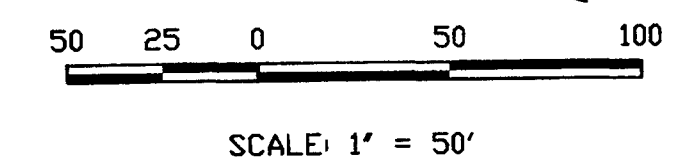
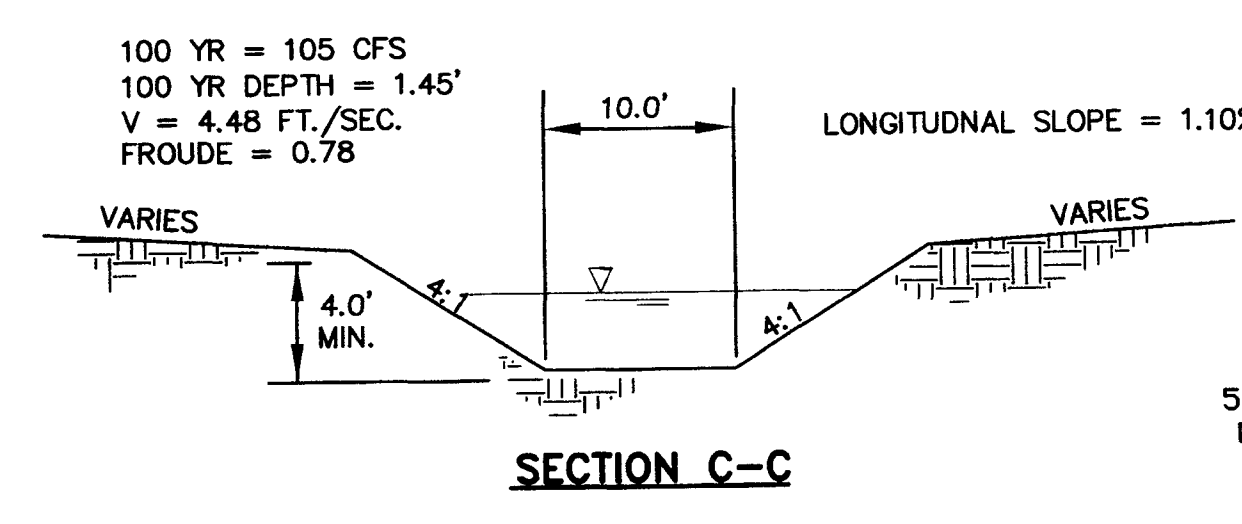
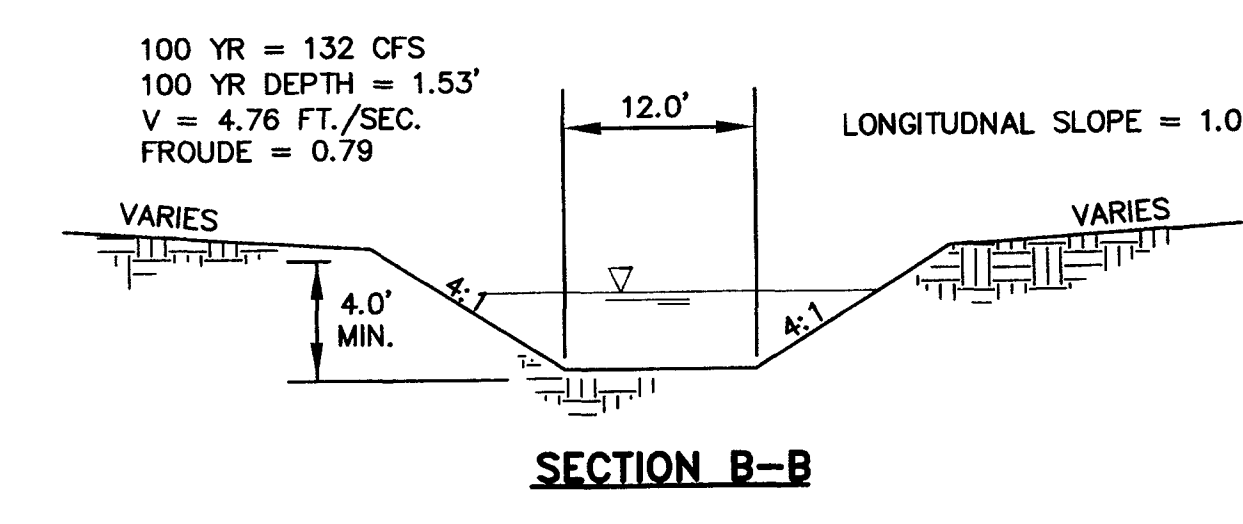
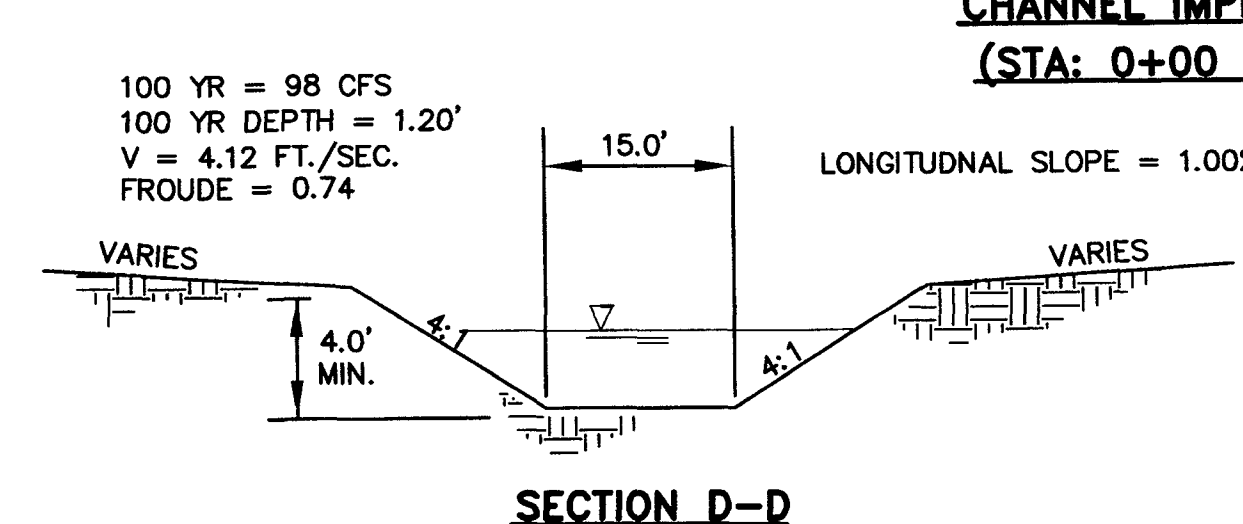
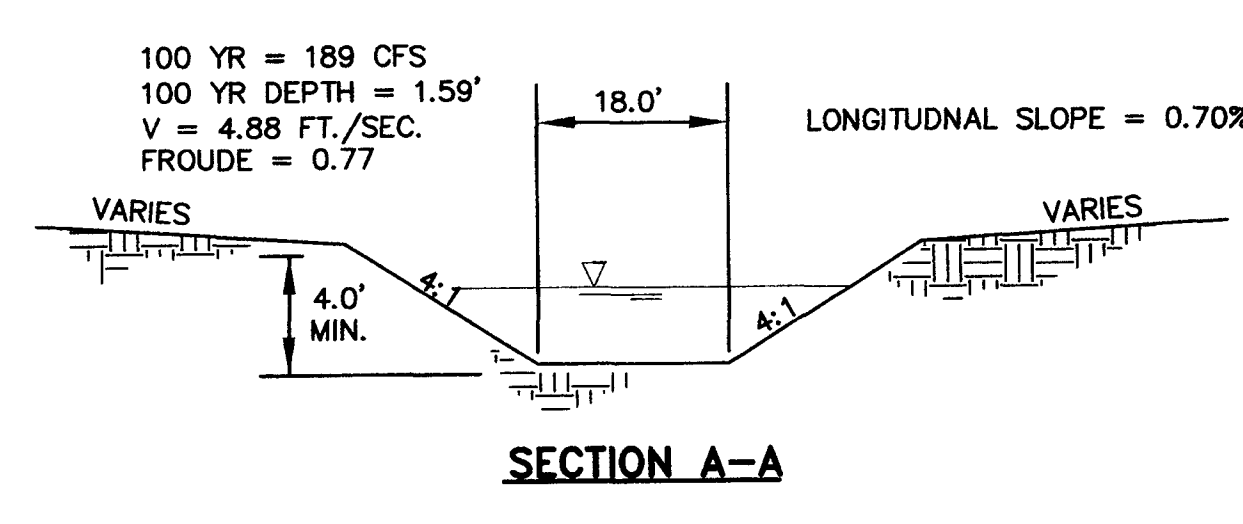
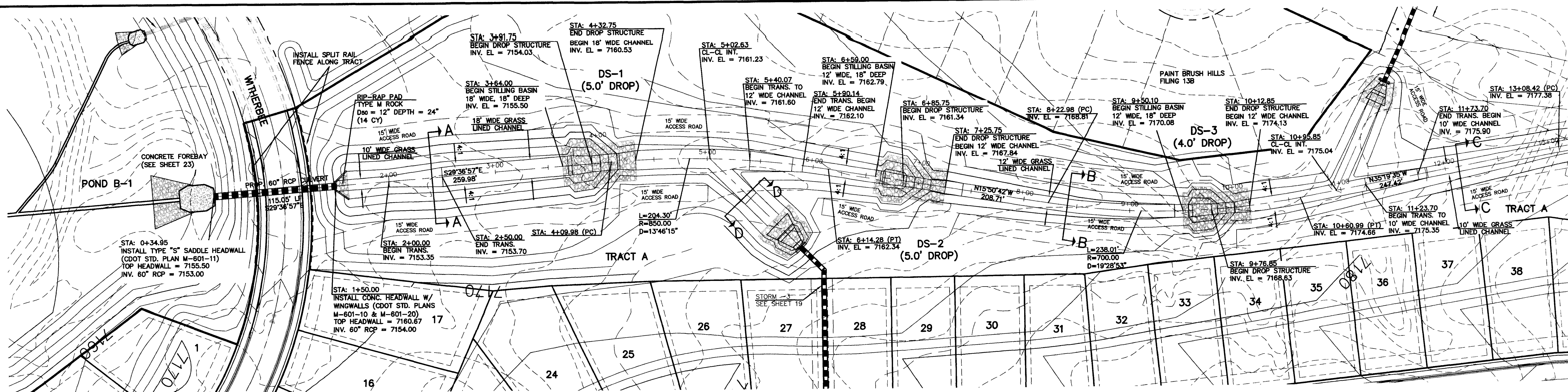
**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
STORM SEWER PLAN

DESIGNED BY	PRA	SCALE	DATE
DRAWN BY	PRA	(H) 1" = 50'	12-12-16
CHECKED BY	(V) 1" = 5'	SHEET 21 OF 26	JOB NO. 2053.40





48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	12-1-16

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE 2/10/17

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
CHANNEL PLANS

DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1"= 50'	12-12-16
CHECKED BY		(V) 1"= 5'	SHEET 22 OF 26
			JOB NO. 2053.40

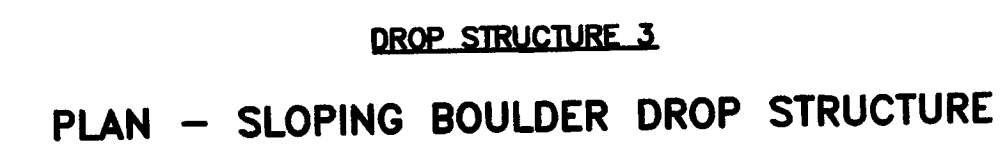
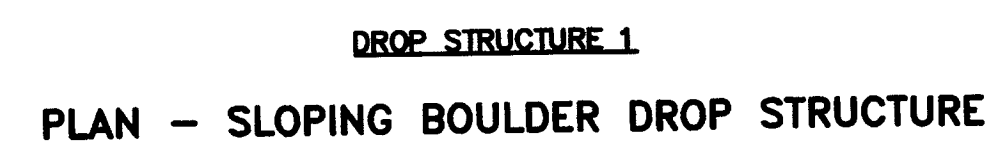
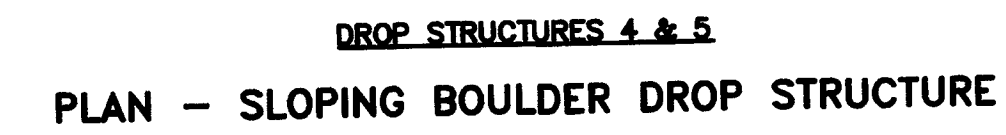
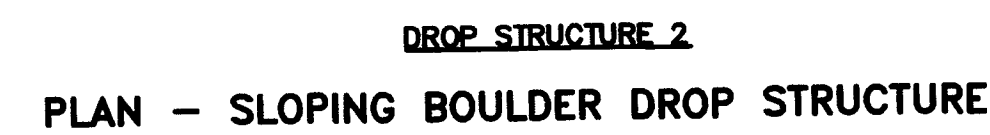
**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

(719)785-0790  
(719)785-0799(Fax)

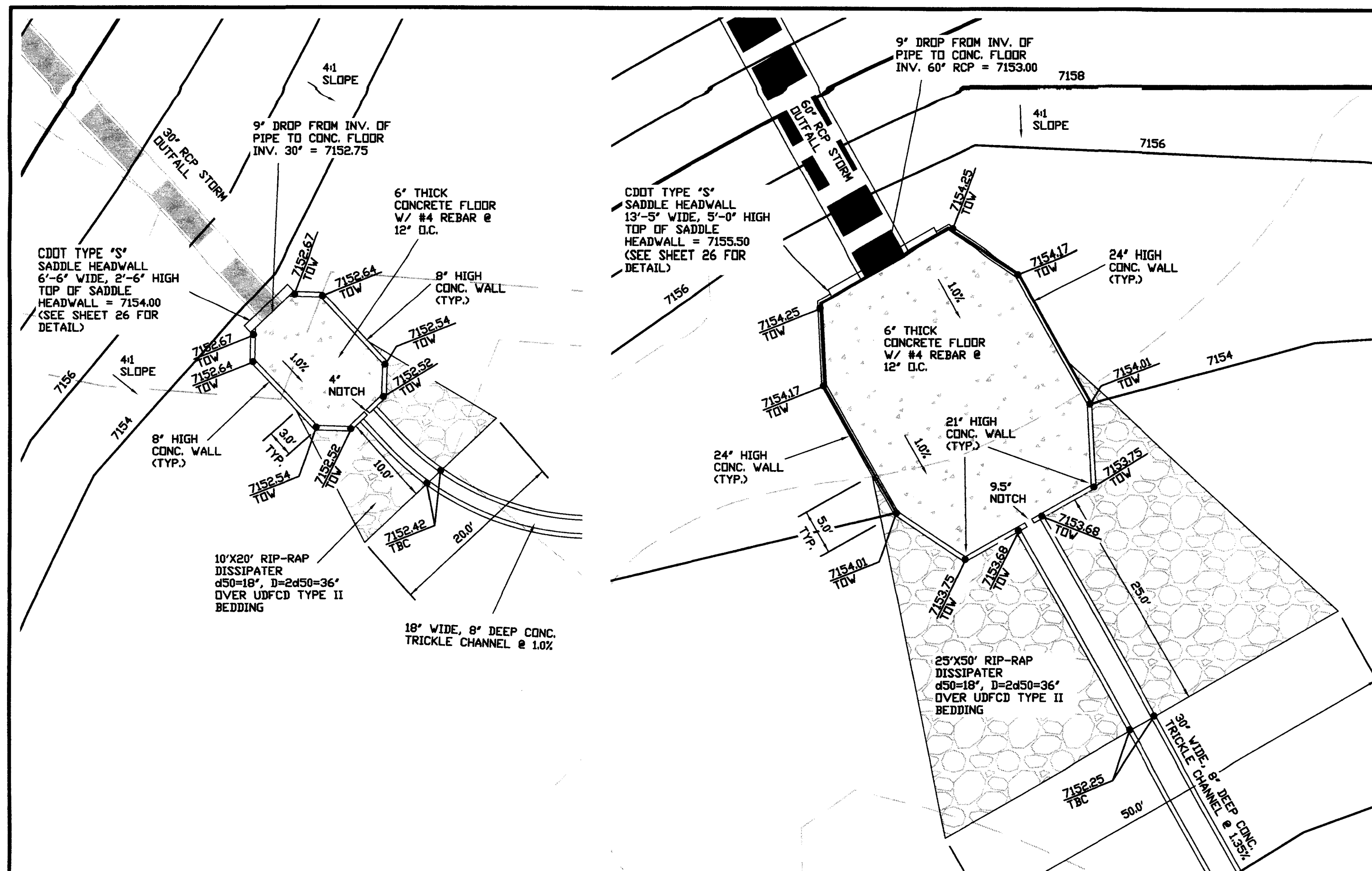
\\205340\DRAWINGS\CONSTRUCTION\13C\205340-SHEET-22.dwg, 12/13/2016 7:24:31 AM, DWG to PDF.pc3



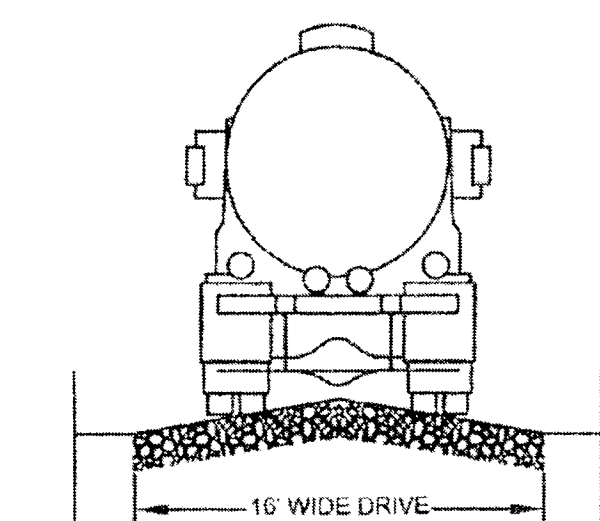


DESIGNED BY	MAW	SCALE	DATE	12-12-16
DRAWN BY	MAW	(H) 1"= 30'	SHEET	22A OF 26
CHECKED BY		(V) 1"= 5'	JOB NO.	2053.40

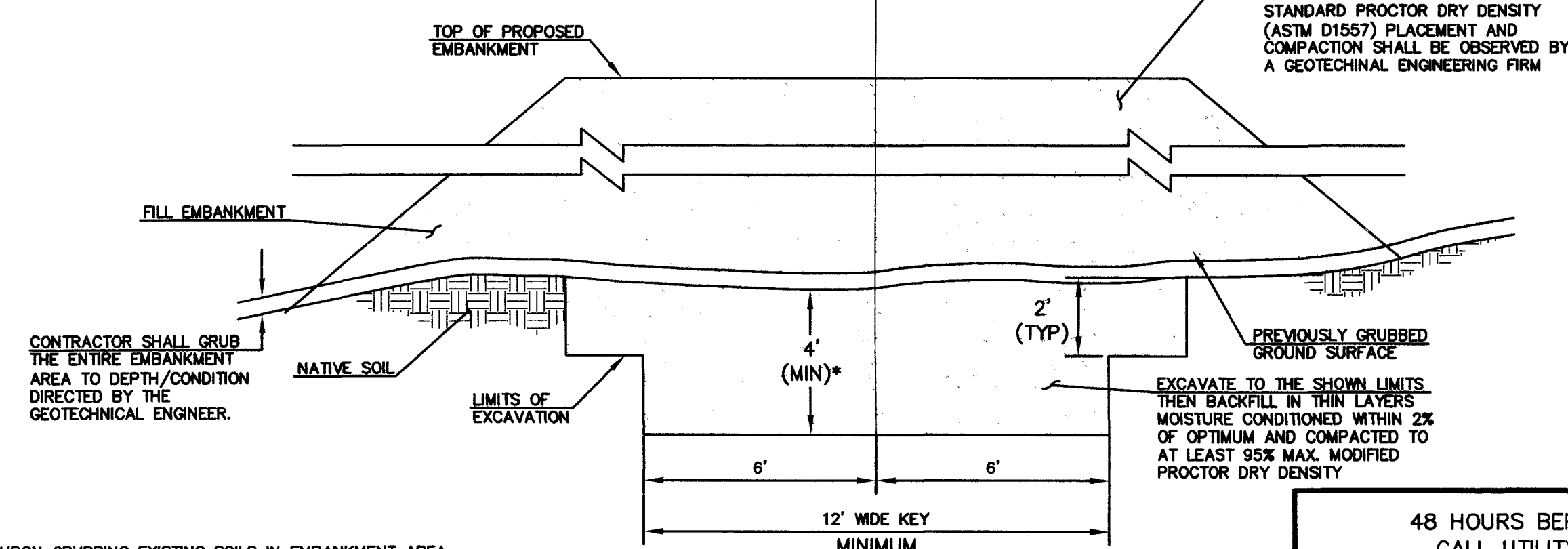




CONCRETE FOREBAY/MICROPOOL DETAILS  
SCALE: 1" = 10'

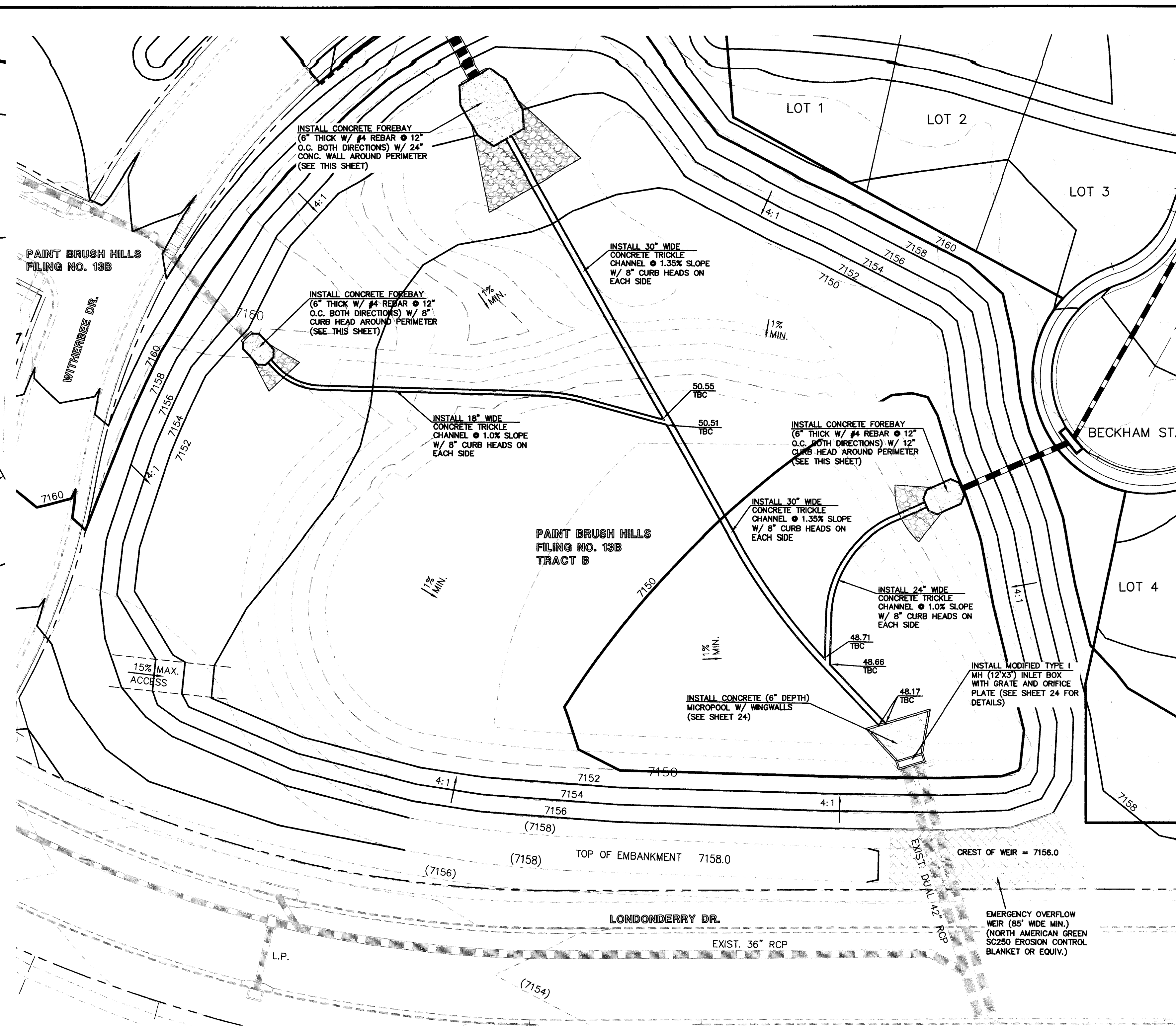
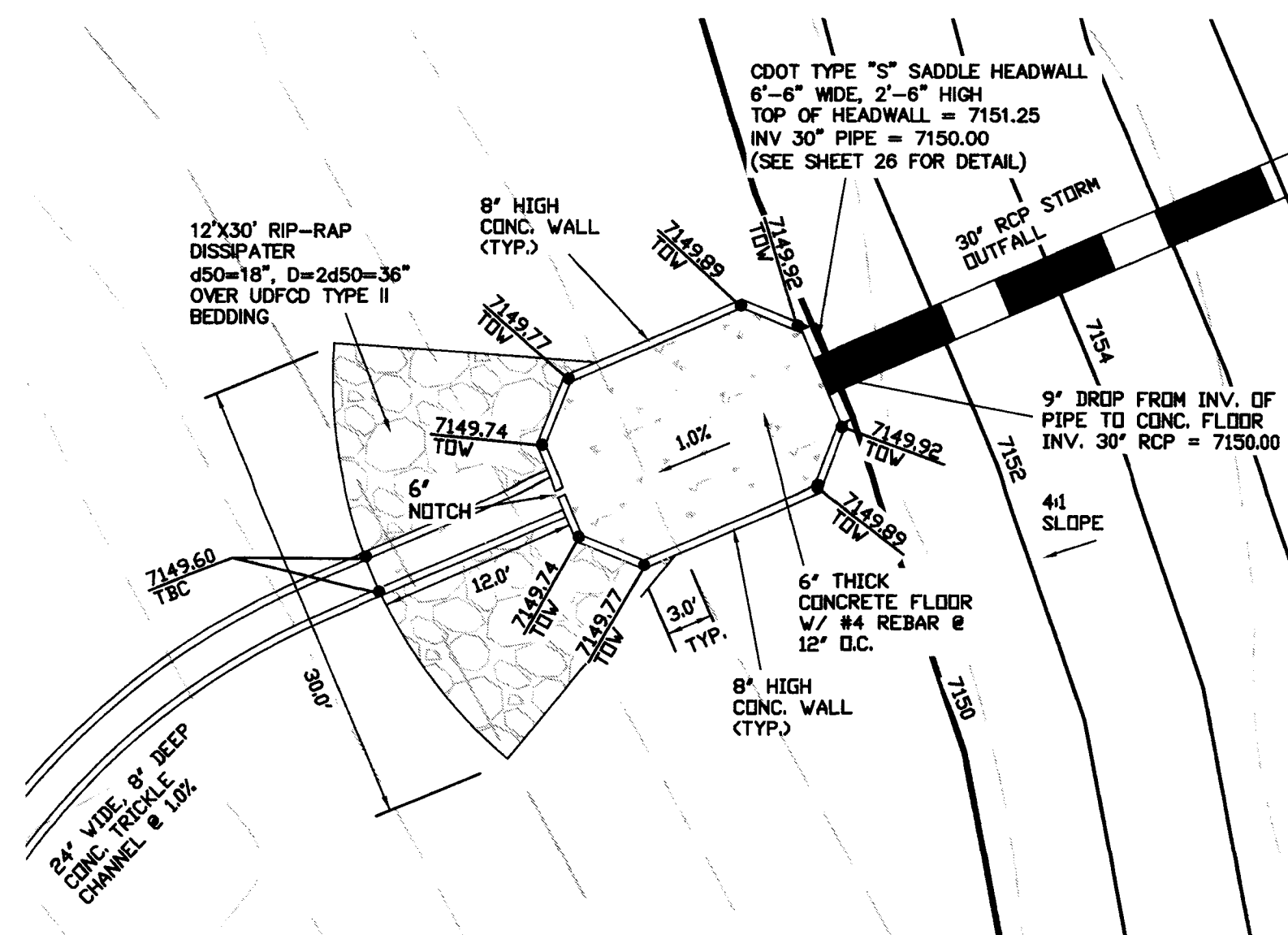


TYPICAL ACCESS ROAD  
CROSS SECTION  
SCALE: N.T.S.

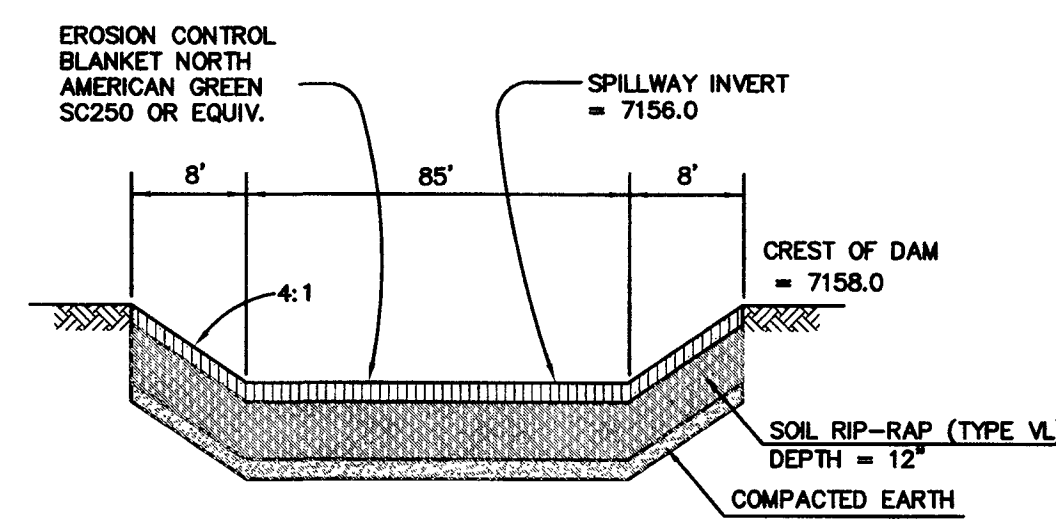


SECTION A  
TYPICAL EMBANKMENT  
WITH SOIL KEYWAY  
SCALE: N.T.S.

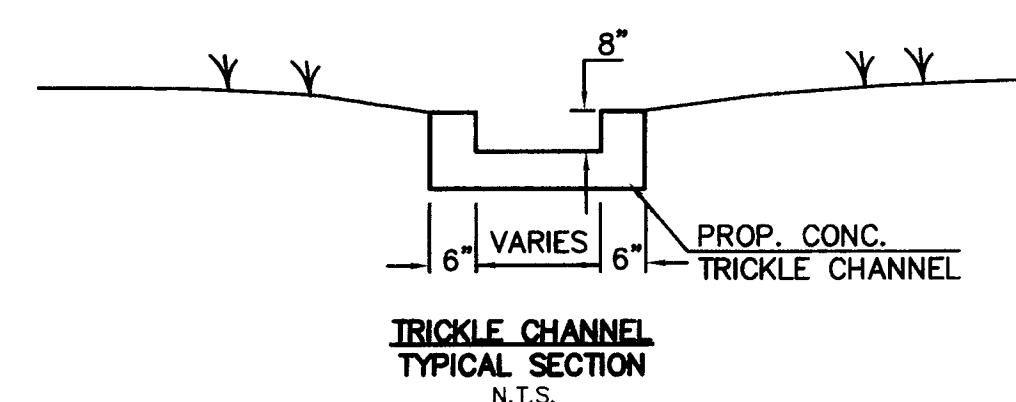
\* UPON GRUBBING EXISTING SOILS IN EMBANKMENT AREA, ENGINEER SHALL BE CONTACTED TO DETERMINE SOIL QUALITY. IF POOR PERMEABILITY IS FOUND (E. SANDY-SILT) ONLY TOP 2' X 14' PORTION OF EMBANKMENT KEY IS REQUIRED FOR CONSTRUCTION.



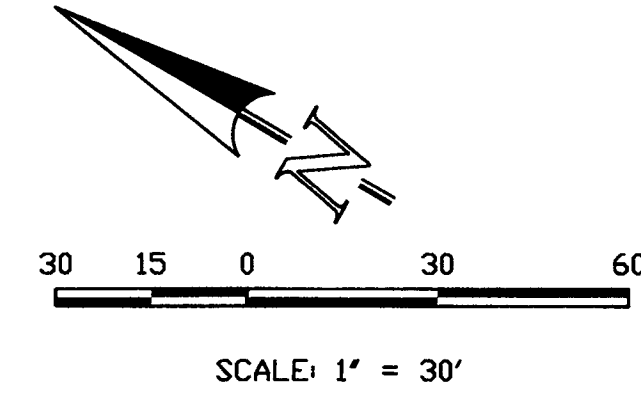
DETENTION FACILITY B1



EMERGENCY SPILLWAY  
CROSS SECTION  
SCALE: N.T.S.



TRICKLE CHANNEL  
TYPICAL SECTION  
SCALE: N.T.S.



48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE  
SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR  
SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING  
UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL  
BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH  
MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND  
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	11-17-16
2	REVISED PER FINAL COMMENTS	1-4-17

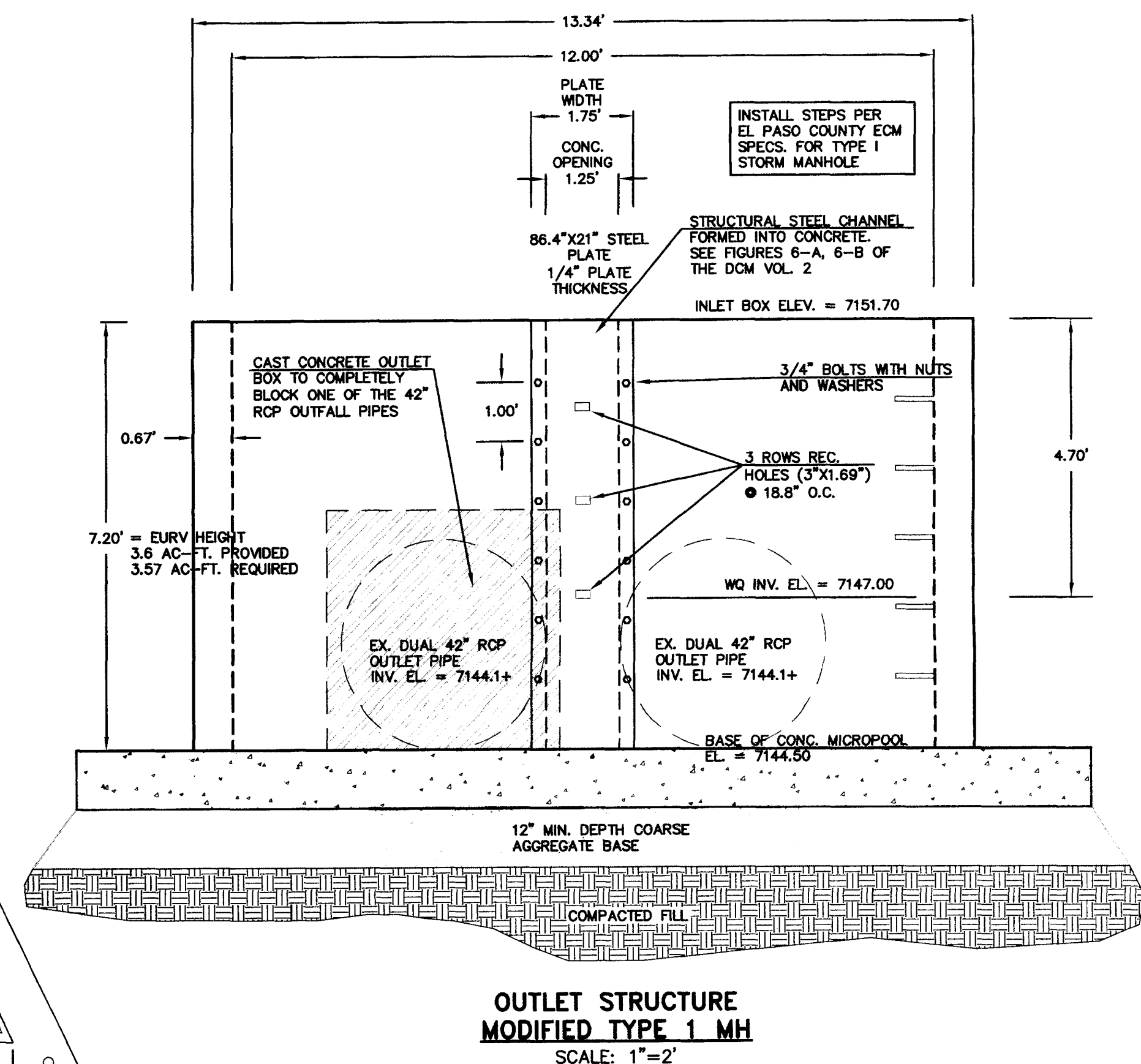
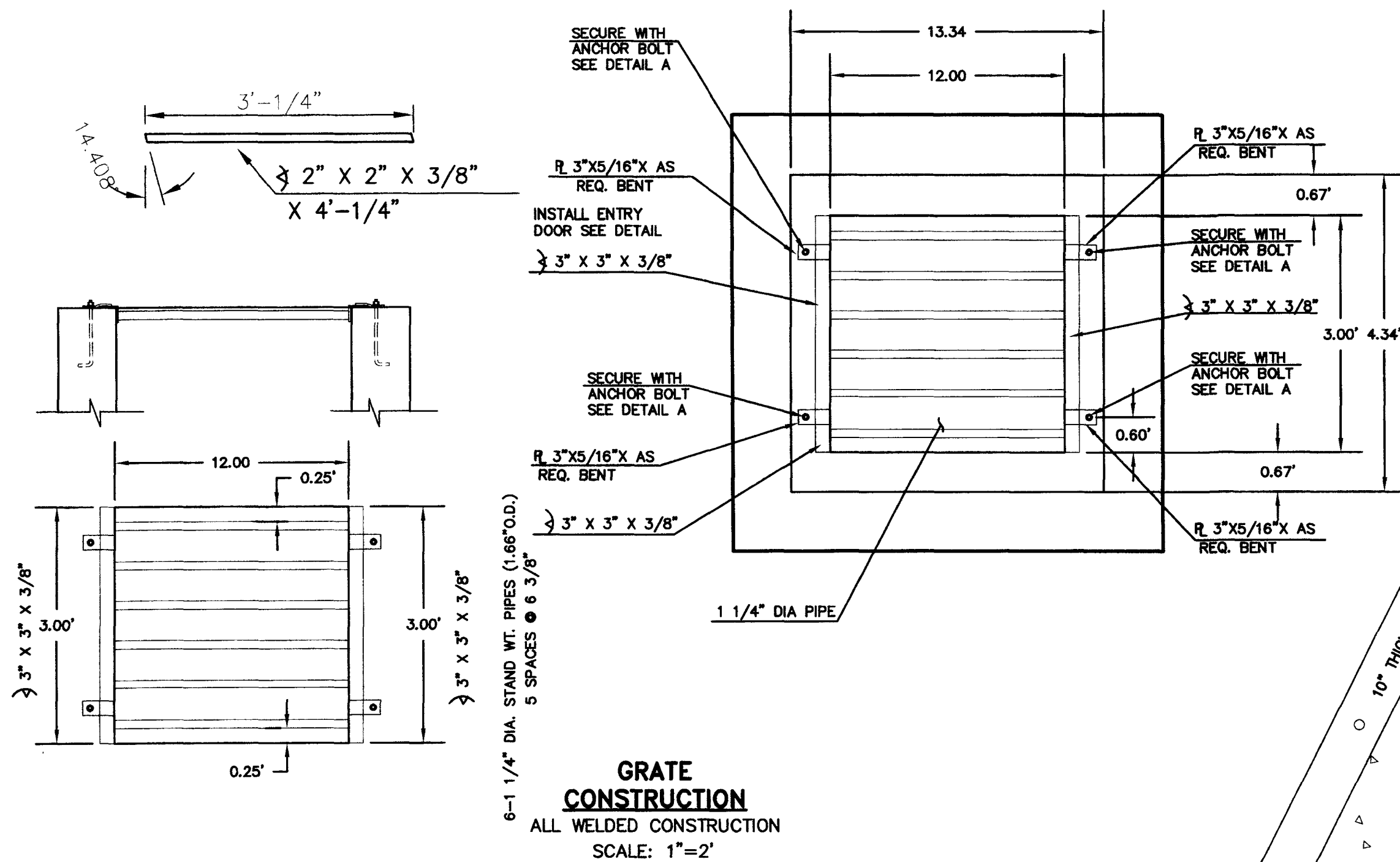
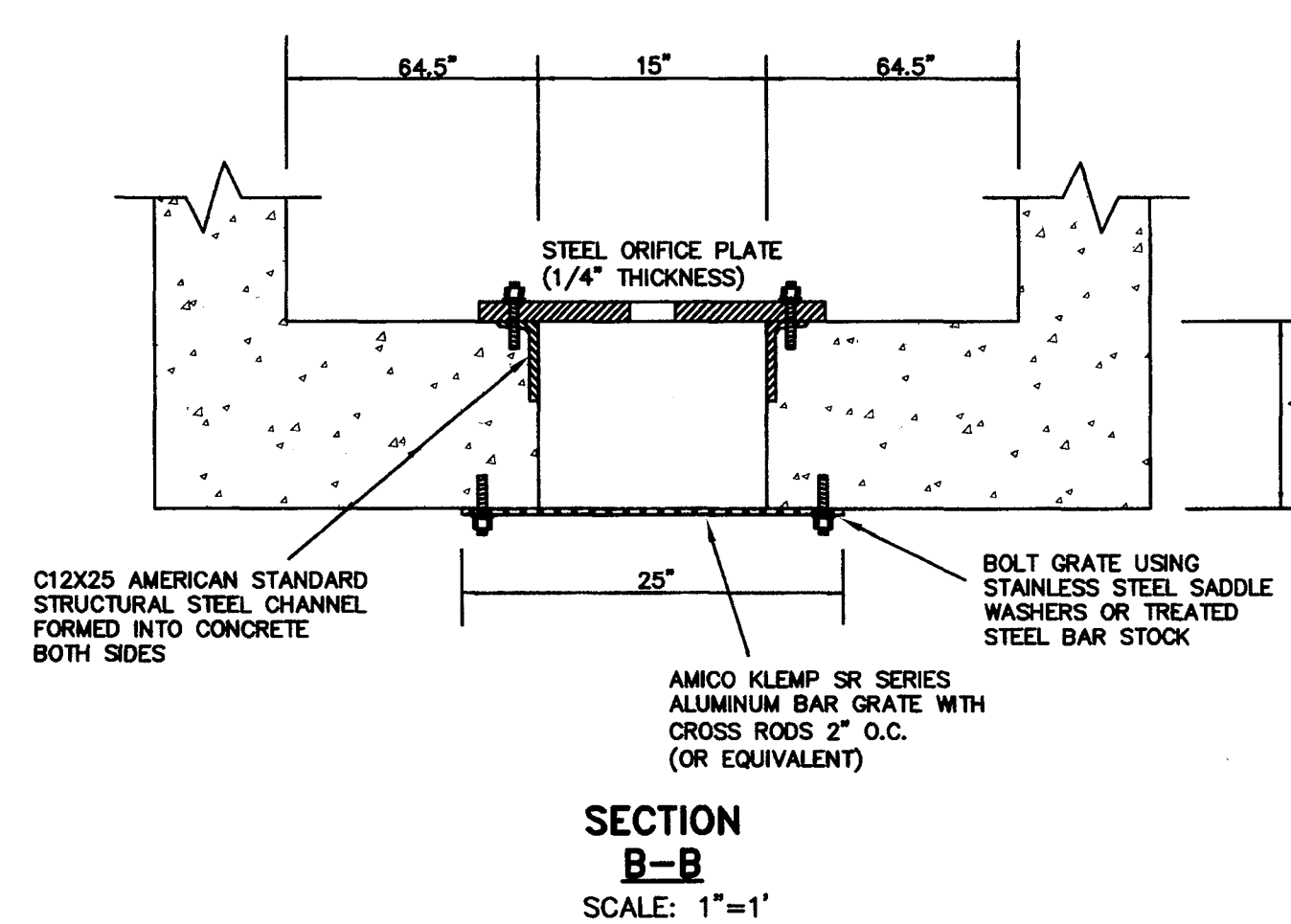
REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
MARC A. WHORTON, COLORADO P.E. #37155  
DATE 2/10/17

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS  
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0790 (fax)

DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 30'	12-12-16
CHECKED BY	(V) 1" = 5'	SHEET 23 OF 26	
		JOB NO.	2053.40

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
DETENTION FACILITY PLAN  
POND B1






THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

  
MARC A. WHORTON, COLORADO P.E. #37155

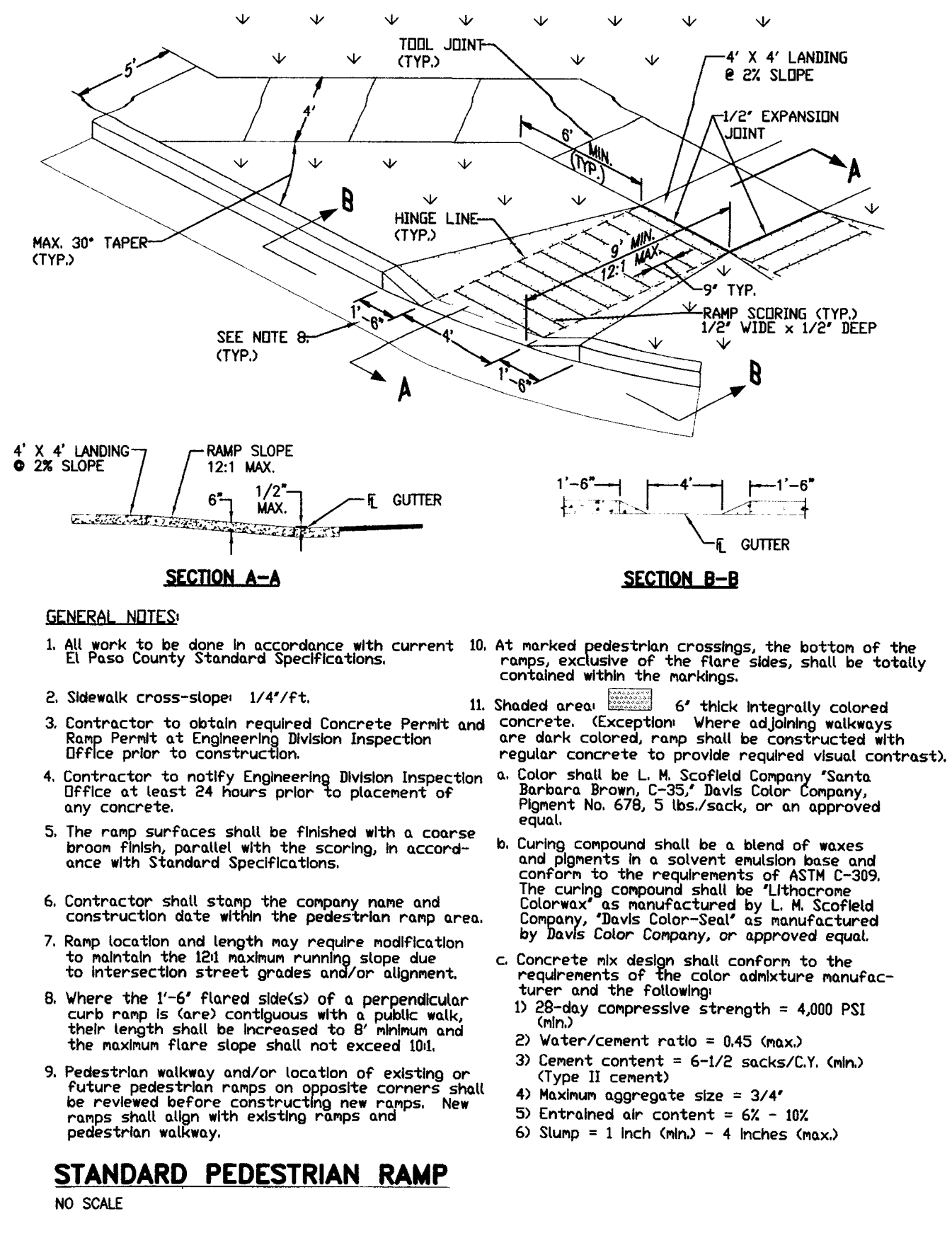
2/10/17 DATE

DESIGNED BY	MAW	SCALE	DATE	1-6-17
DRAWN BY	MAW	(H) 1" =	SHEET	24 OF 26
CHECKED BY		(V) 1" =	JOB NO.	2053.40

**CLASSIC**  
CONSULTING



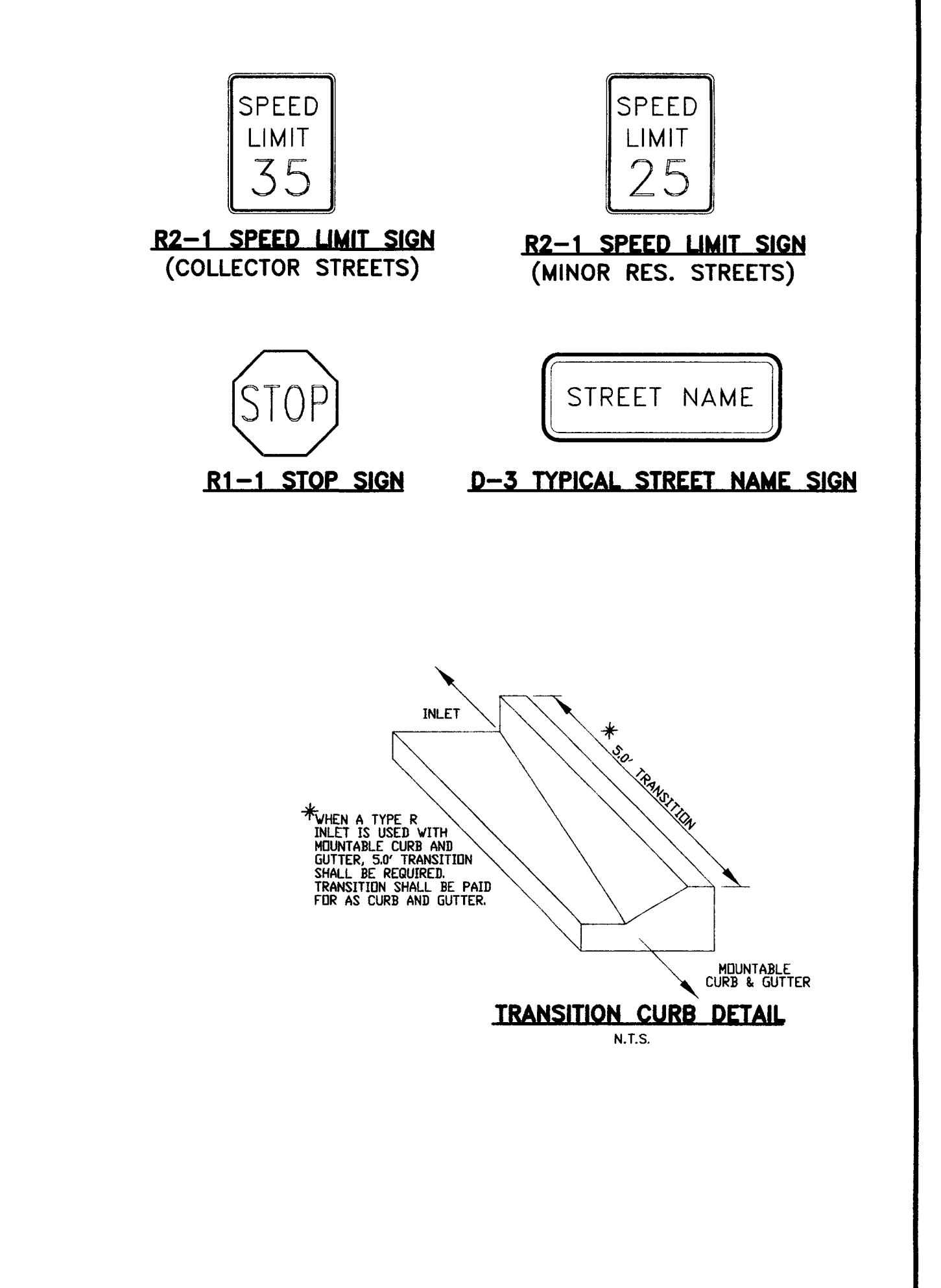
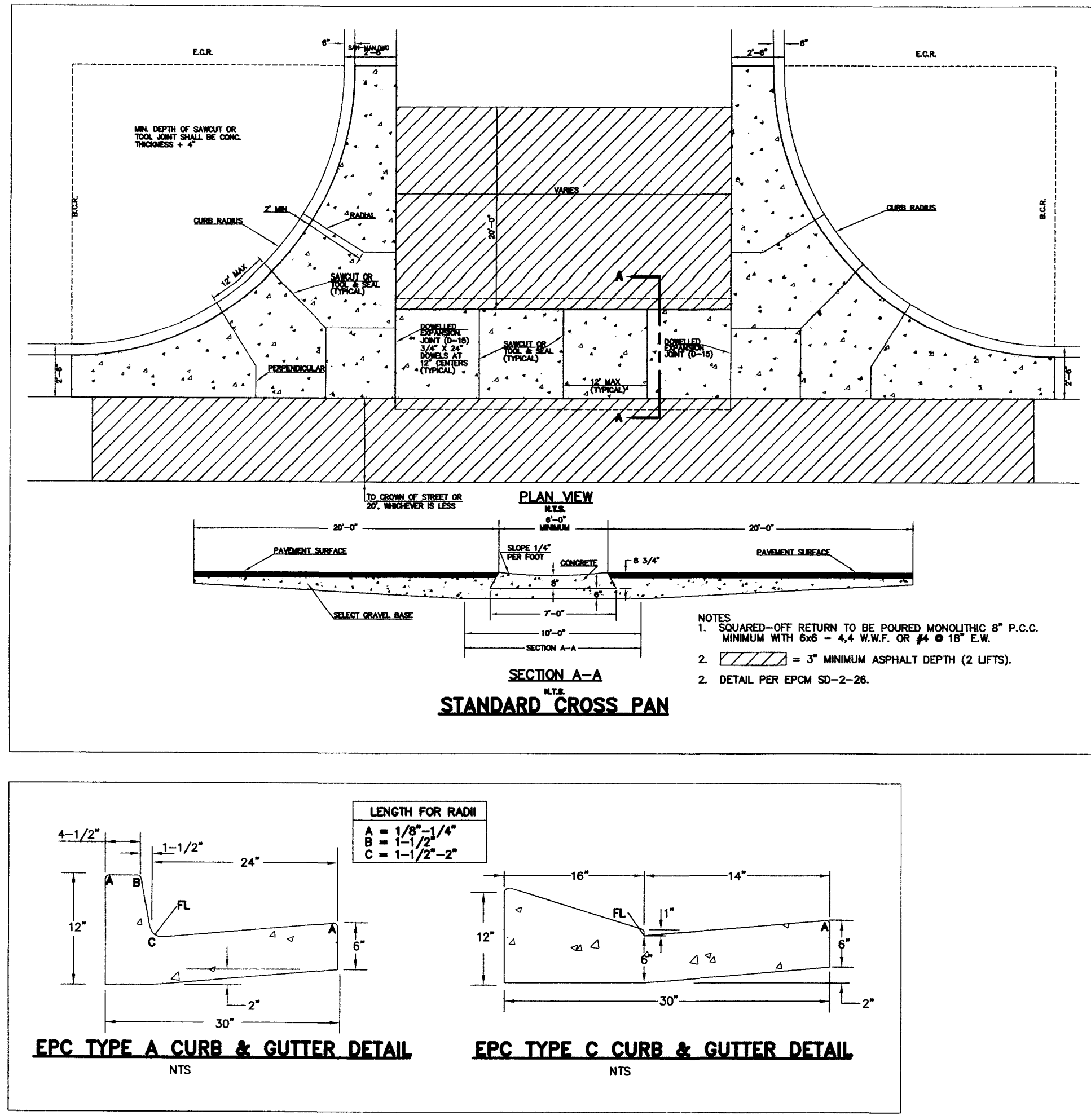
N:\205340\DRAWINGS\CONSTRUCTION\13C\205340-SHEET-25.dwg, 12/13/2016 6:48:18 AM, DWG To PDF.pc3



QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)											
DIAMETER (AND EQUIVALENT DIAMETER) INCHES											
PIPE TYPE	MATERIAL	18	24	30	36	42	48	54	60	72	84
CIRCULAR	RCP	1.0	1.3	1.5	2.0	2.7	3.6	4.6	6.0	8.4	12.0
	CMP OR PLASTIC	1.1	1.4	1.6	2.1	2.2	3.0	4.0	5.3	6.8	9.6
ELLIPTICAL	RCP	23 x 14	30 x 19	38 x 24	45 x 29	53 x 34	60 x 38	72 x 45	84 x 54	108 x 66	144 x 84
	CMP	22 x 13	29 x 18	36 x 22	43 x 27	50 x 31	58 x 36	70 x 42	84 x 51	108 x 63	144 x 81
ARCH	RCP	0.9	1.2	1.3	1.6	1.7	2.2	2.9	3.7	4.4	6.0
	CMP	0.9	1.3	1.4	1.9	1.8	2.4	3.2	4.4	5.0	6.8

TYPE OF PIPE	HEADWALL DIMENSIONS
CIRCULAR	D = PIPE DIAMETER (INSIDE)
	H = D + 30"
	W = 3D + 18"
	T = 0.4 H (NEAREST INCH)
ARCH OR ELLIPTICAL	D = EQUIVALENT CIRCULAR DIAMETER (INSIDE)
	H = RISE + 30"
	W = 3D + 18"
	T = 0.4 H (NEAREST INCH)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.



48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

2/10/17  
DATE

CLASSIC CONSULTING ENGINEERS & SURVEYORS

618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

PAINT BRUSH HILLS FILING NO. 13C  
CONSTRUCTION PLANS  
DETAIL SHEET

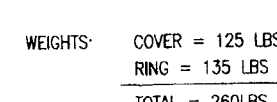
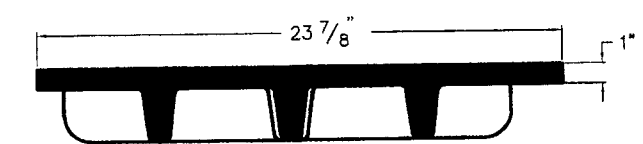
DESIGNED BY	PRA	SCALE	DATE	12-12-16
DRAWN BY	PRA	(H) 1"= NA	SHEET	25 OF 26
CHECKED BY		(V) 1"= NA	JOB NO.	2053.40





\* VARIABLE, REFER TO TABLE TWO  
 † INCLUDE 18" NO. 4 BARS (SEE CHANNEL LAYOUT DETAIL).  
 ‡ SEE CURB FACE ASSEMBLY ON SHEET 1 AND CHANNEL LAYOUT DETAILS ON THIS SHEET


NOTE. FOR  $L=5'$ ,  $L=10'$  AND  $L=15'$



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

  
\_\_\_\_\_  
MARC A. WHORTON, COLORADO P.E. #37155

2/15/17  
DATE

PAINT BRUSH HILLS FILING NO. 13C				CLASSIC A.
CONSTRUCTION PLANS				
DETAIL SHEET				
DESIGNED BY	PRA	SCALE	DATE	12-12-
DRAWN BY	PRA	(H) 1" = NA	SHEET 26	OF
CHECKED BY		(V) 1" = NA	JOB NO.	2053.4