

CDK 121

GENERAL NOTES:

- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN 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 VOL. 2 AND THE COLORADO DEPARTMENT OF HIGHWAYS "M & S" STANDARDS. ANY DEVIATION TO REGULATIONS AND STANDARDS MUST BE REQUESTED AND APPROVED, IN WRITING TO BE ACCEPTABLE.
- 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 LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- 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.
- THERE WILL BE A PRE-CONSTRUCTION MEETING WITH THE EL PASO COUNTY DOT, ENGINEER, AND CONTRACTOR IN ATTENDANCE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 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 DOT.
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- 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.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL EQUAL OR EXCEED EXISTING PAVEMENT SECTION.
- ALL APPLICABLE PERMITS (IE. 4045, CPDES, ETC.) MUST BE OBTAINED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY IN AREAS WHERE PERMITS ARE REQUIRED.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- RCP SHALL BE UTILIZED FOR ALL DRAINAGE DESIGN. IF CMP IS TO BE APPROVED WITH THE CONSTRUCTION DRAWINGS A LETTER, WITH ALL SUPPORTING DOCUMENTATION, FROM A QUALIFIED ENGINEER MUST BE FILED ATTESTING TO THE 50 DESIGN LIFE OF CMP GIVEN THE SOIL CONDITIONS AT THE PROPOSED LOCATIONS.
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA. SITE TRIANGLE SHALL BE CALCULATED PER THE ECM CRITERIA.
- 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.
- 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.

SIGNING AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES.
- 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.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "C" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND COLLECTOR ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH 1/2" WHITE BORDER THAT IS NOT RECESSED.
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 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-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEVELOPMENT SERVICES (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY PUBLIC SERVICE DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

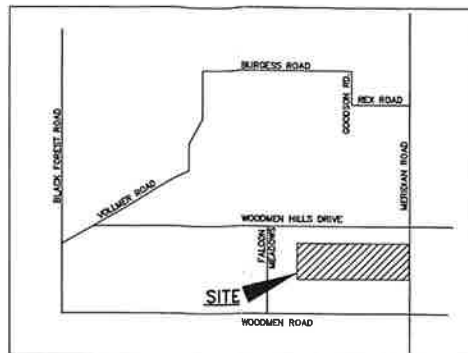
# BENT GRASS

COUNTY OF EL PASO, STATE OF COLORADO

## CONSTRUCTION DOCUMENTS

BENT GRASS MEADOWS DR. EAST (INTERIM PLAN)

JANUARY 2012



VICINITY MAP  
N.T.S.

NOTE:  
BENT GRASS MEADOWS DR. WILL REMAIN A PRIVATE ROAD OWNED AND MAINTAINED BY THE BENT GRASS METRO DISTRICT THROUGH PHASE 1 APPROVAL. HOWEVER, THIS FACILITY HAS BEEN DESIGNED AND WILL BE CONSTRUCTED PER COUNTY STANDARDS WITH THE DISTRICT ALLOWING COUNTY INSPECTIONS TO ENTER THE PROPERTY FOR INSPECTIONS, AS THIS WILL BE A PUBLIC FACILITY IN THE FUTURE.

BENCHMARKS:

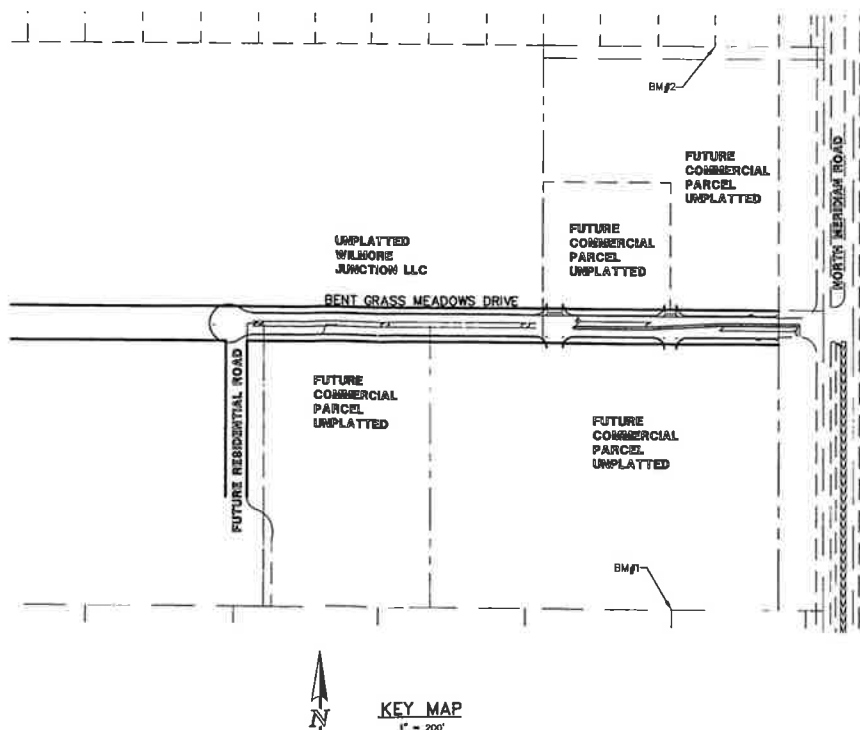
BENCHMARK #1 - THE NORTHWESTERLY CORNER OF LOT 1 FALCON RANCHETTES, MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 2372 ELEVATION = 6921.51

BENCHMARK #2 - THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

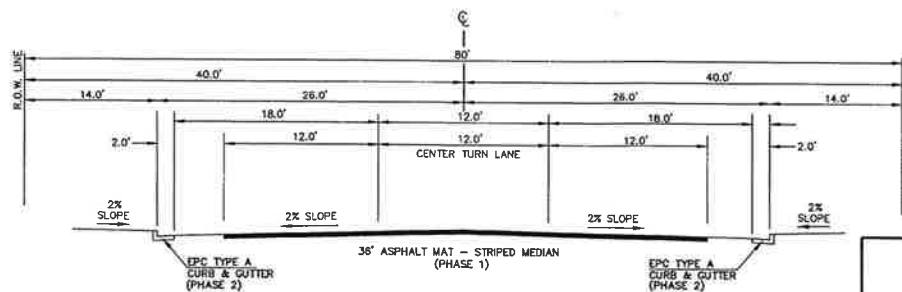
SHEET INDEX

TITLE SHEET  
GRADING & EROSION CONTROL PLAN  
STREET IMPROVEMENT PLANS (PHASE 1)  
STREET IMPROVEMENT PLANS (PHASE 2)  
DETAILS  
DETAILS

1 OF 6  
2 OF 6  
3 OF 6  
4 OF 6  
5 OF 6  
6 OF 6



KEY MAP  
1" = 200'



TYPICAL STREET SECTION - BENT GRASS MEADOWS DR. EAST (INTERIM PLAN)  
URBAN NON-RESIDENTIAL COLLECTOR  
N.T.S.

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**1-800-922-1987**

CITY OF COLORADO SPRINGS DEPT. OF UTILITIES  
GAS, ELECTRIC, WATER AND WASTEWATER

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 PER EL PASO COUNTY COMMENTS  
2 PER EL PASO COUNTY COMMENTS

DATE

3-27-12  
4-27-12

REVIEW:

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

MARC A WHORTON, COLORADO P.E. #37155

RECEIVED

MAY 07 2012

EPC DEVELOPMENT SERVICES

AGENCIES:

OWNER/DEVELOPER:

BENT GRASS METROPOLITAN DISTRICT  
660 SOUTHPOINTE COURT, SUITE 210  
COLORADO SPRINGS, CO 80906  
MR. PETE SUSEMIHL (719) 579-6500

CIVIL ENGINEER:

CLASSIC CONSULTING ENGINEERS & SURVEYORS  
6385 CORPORATE DRIVE, SUITE 101  
COLORADO SPRINGS, CO 80919  
MR. MARC A WHORTON P.E. (719) 785-0790

COUNTY ENGINEERING:

EL PASO COUNTY, DEPT. OF TRANSPORTATION  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, COLORADO 80910  
MR. GARY HAMACHER, (719) 520-7852

WATER & SANITATION DISTRICT:

WOODMEN HILLS METRO DISTRICT  
11720 WOODMEN HILLS DRIVE  
FALCON, COLORADO 80831  
MR. LARRY BISHOP (719) 495-2500

FIRE DISTRICT:

FALCON FIRE PROTECTION DISTRICT  
7030 N. MERIDIAN RD.  
FALCON, COLORADO 80831  
CHIEF HARWIG (719) 495-4050

GAS COMPANY:

CITY OF COLORADO SPRINGS  
101 SOUTH CONEJOS STREET  
COLORADO SPRINGS, COLORADO 80903  
MR. TIM BENEDICT, (719) 668-3574

ELECTRIC COMPANY:

MOUNTAIN VIEW ELECTRIC  
11140 E. WOODMEN ROAD  
P.O. BOX 1600  
LIMON, COLORADO 80828  
MR. LES ULFERS, (719) 495-2283

TELEPHONE COMPANY:

U.S. WEST COMMUNICATIONS  
(LOCATORS) (800) 922-1987

AT & T  
(LOCATORS) (719) 635-3674

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.

*Marc A Whorton*  
EL PASO COUNTY ENGINEER / DIRECTOR  
NOTE: EL PASO COUNTY APPROVAL IS FOR BENT GRASS MEADOWS DRIVE PHASE 1 (PRIVATE DRIVE) ONLY.  
DATE 6-11-12

GRADING APPROVALS:

DETAILED IMPROVEMENT PLANS AND SPECIFICATIONS ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLANS WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THIS GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY. PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS L.L.C.

RECEIVED

JUN 01 2012

EPC DEVELOPMENT SERVICES

STREET APPROVALS:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED IMPROVEMENT PLANS AND SPECIFICATIONS.

*Marc A Whorton*  
MARC A WHORTON, COLORADO P.E. #37155  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS  
DATE 4/24/12

OWNER / DEVELOPER STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THIS STREET IMPROVEMENT PLAN AND GRADING PLAN. Bent Grass Metropolitan District

*Marc A Whorton*  
OWNER/DEVELOPER:  
DATE 5/2/12

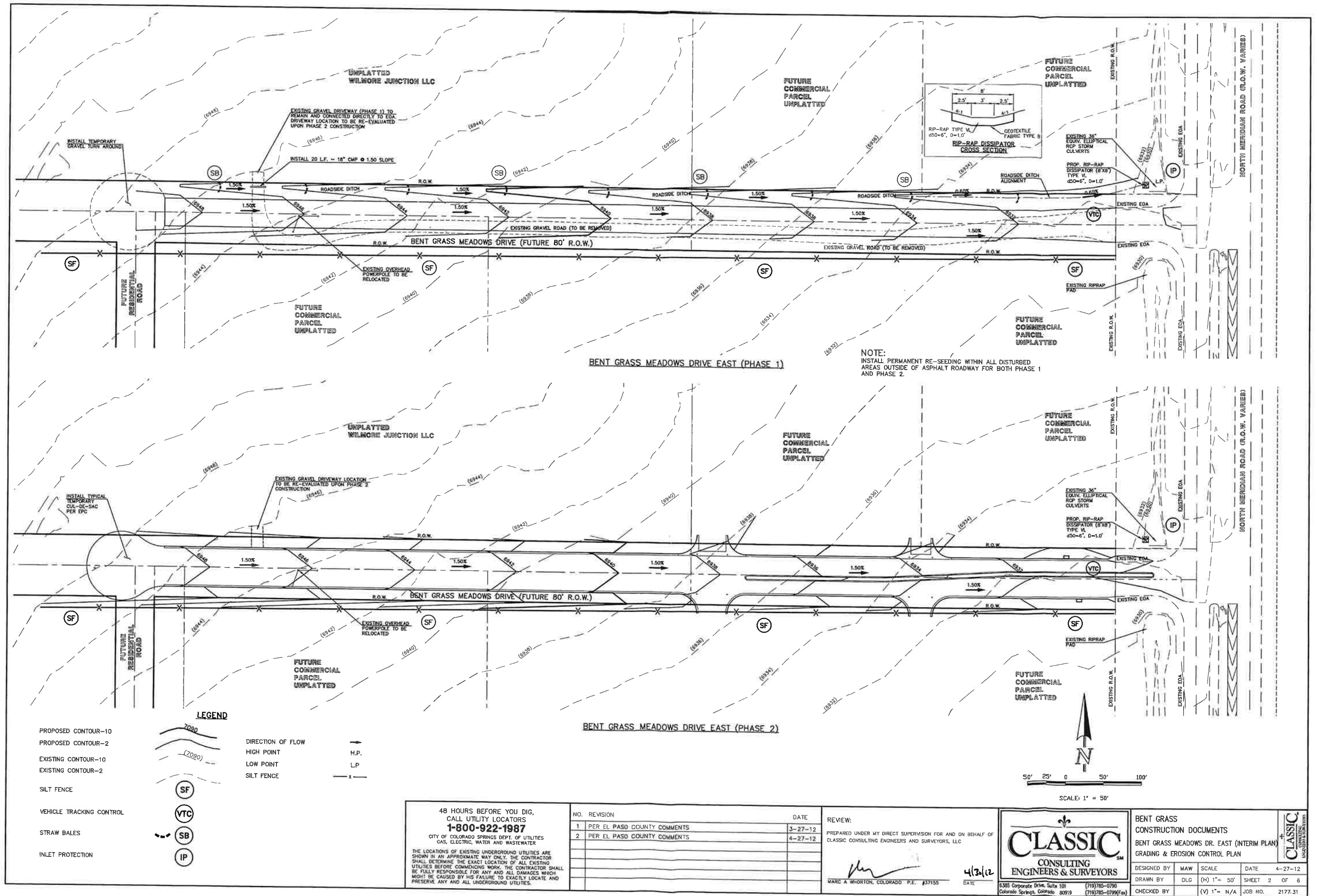
CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS

BENT GRASS  
CONSTRUCTION DOCUMENTS  
BENT GRASS MEADOWS DR. EAST (INTERIM PLAN)  
TITLE SHEET

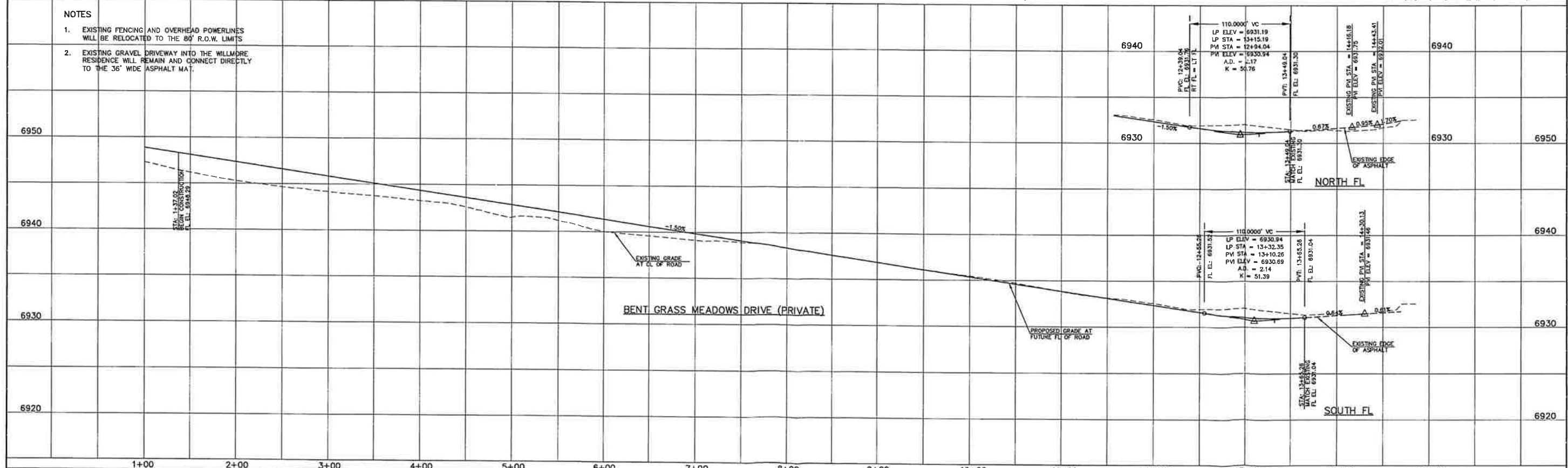
DESIGNED BY	MAW	SCALE	DATE	4-27-12
DRAWN BY	DLG	(H) 1" = N/A	SHEET	1 OF 6
CHECKED BY	(V) 1" = N/A	JOB NO.	2177.31	

CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS

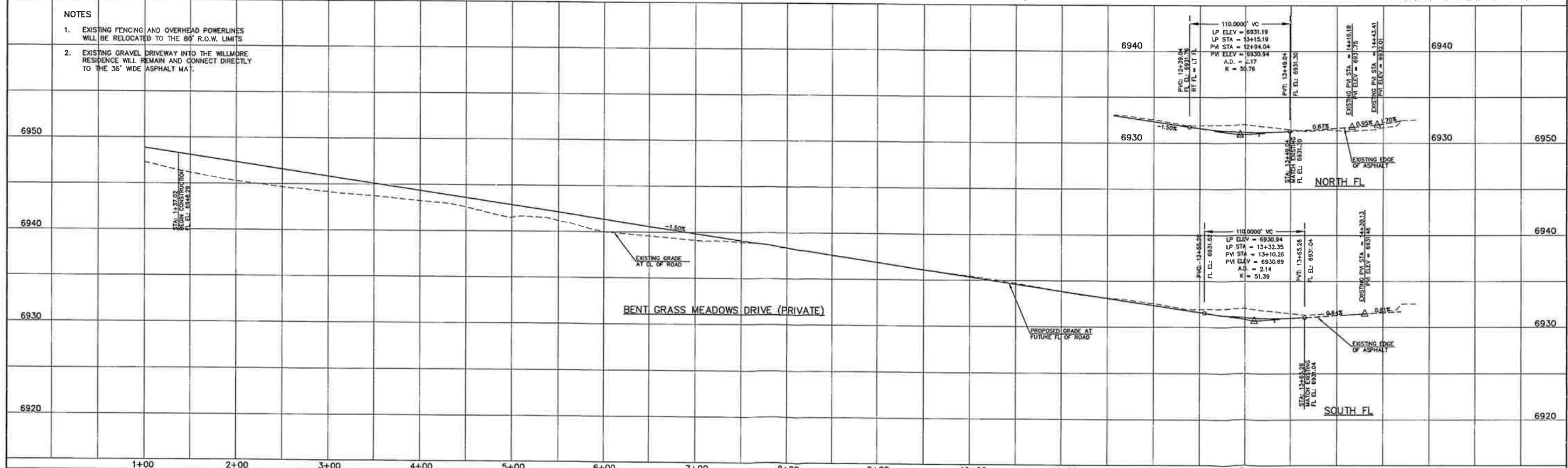
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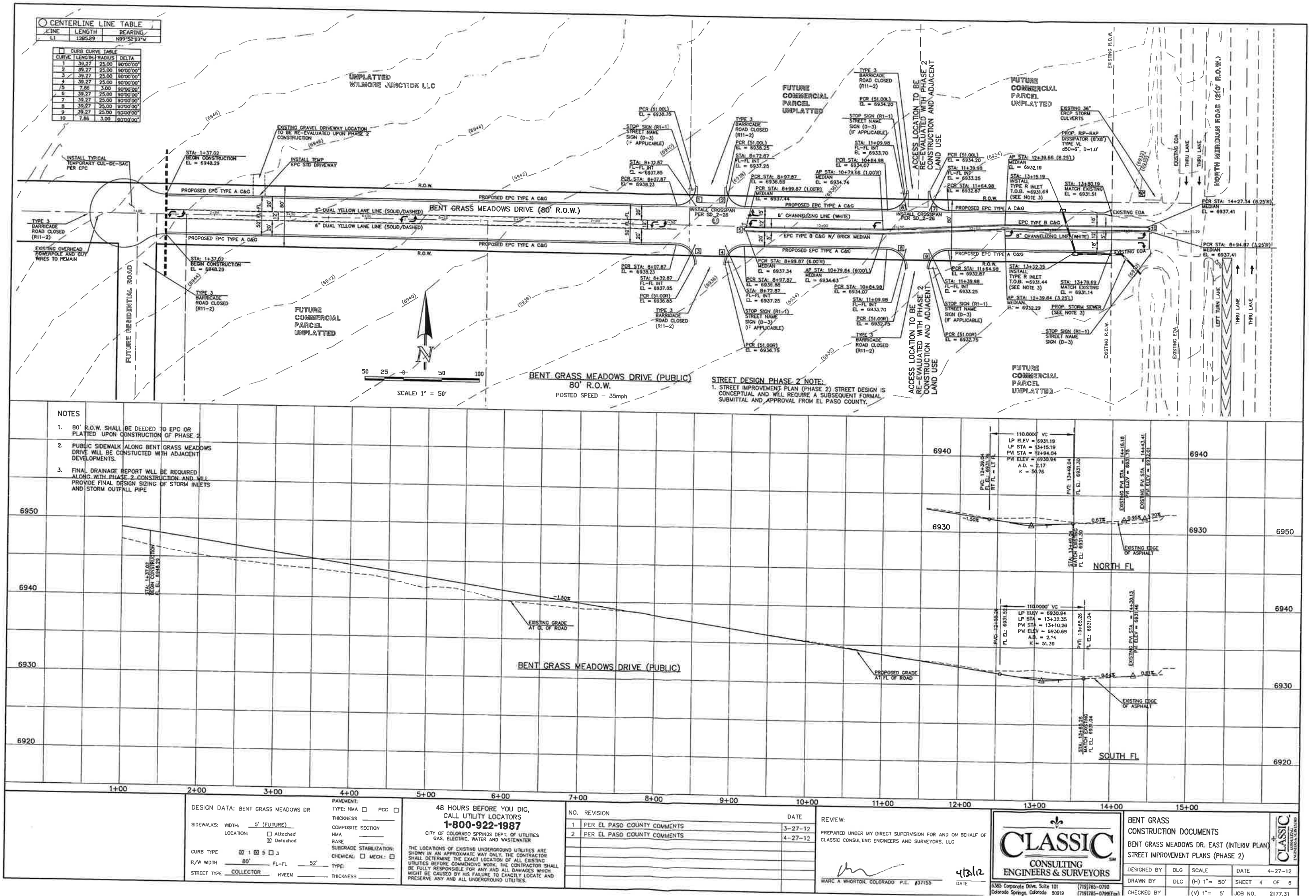


[illegible]

1. EXISTING FENCING AND OVERHEAD POWERLINES WILL BE RELOCATED TO THE 80' R.O.W. LIMITS
2. EXISTING GRAVEL DRIVEWAY INTO THE WILLMORE RESIDENCE WILL REMAIN AND CONNECT DIRECTLY TO THE 36' WIDE ASPHALT MAT.



DESIGN DATA: BENT GRASS MEADOWS DR.  SIDEWALKS: WIDTH: <u>N/A</u> LOCATION: <input type="checkbox"/> Attached <input type="checkbox"/> Detached  CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 R/W WIDTH: <u>80' (Priv.)</u> FL-FL <u>36' MAT</u> STREET TYPE: <u>INTERIM (Priv.)</u> HVECM		PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS _____ COMPOSITE SECTION HMA _____ BASE _____ SUBGRADE STABILIZATION: CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/> TYPE: _____ THICKNESS _____		48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>1-800-922-1987</b> CITY OF COLORADO SPRINGS DEPT. OF UTILITIES GAS, ELECTRIC, WATER AND WASTEWATER  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 PER EL PASO COUNTY COMMENTS 3-27-12 2 PER EL PASO COUNTY COMMENTS 4-27-12		DATE REVIEWED: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC   MARC A. WHORTON, COLORADO P.E. #37155		11+00 12+00 13+00 14+00 15+00 BENT GRASS CONSTRUCTION DOCUMENTS BENT GRASS MEADOWS DR. EAST (INTERIM PLAN) STREET IMPROVEMENT PLANS (PHASE 1) DESIGNED BY DLG SCALE DATE 4-27-12 DRAWN BY DLG (H) 1" = 50' SHEET 3 OF 6 CHECKED BY (V) 1" = 5' JOB NO. 2177.31		 3585 Corporate Drive, Suite 101 (719)785-0790 Colorado Springs, Colorado 80919 (719)785-0799 (Fax)	
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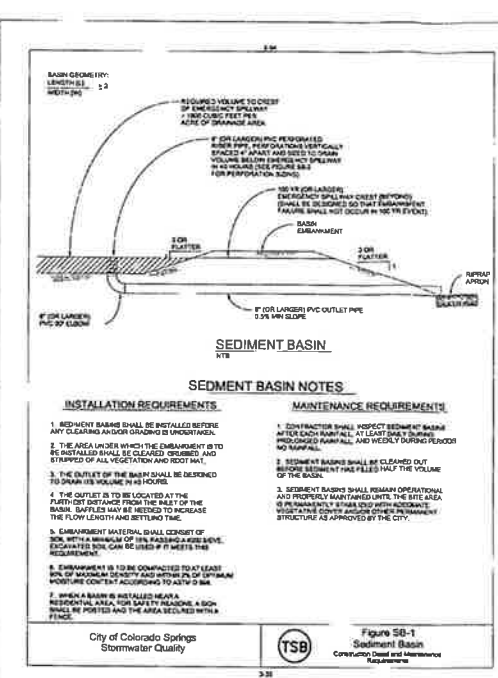
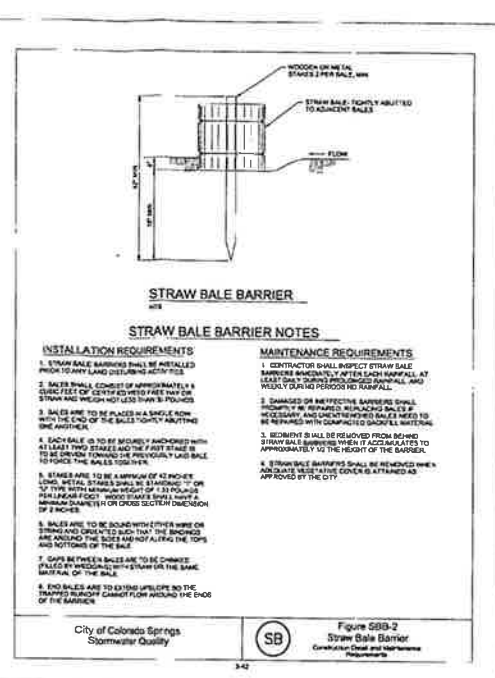
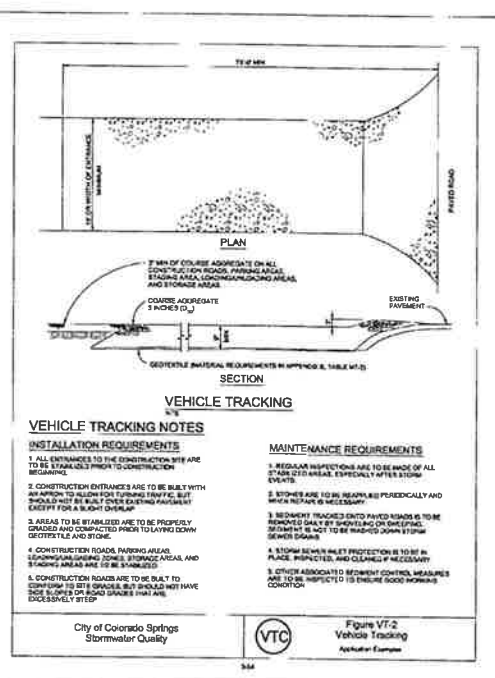


# STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS. NOTWITHSTANDING ANYTHING DEFICIT IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO STORMWATER 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.
- ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER. SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE DEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS CONSIDERED TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMPs MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSIBLE FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE EDCM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 6, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (WQDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE GRADING AND EROSION CONTROL PLAN MAY BE A PART OF THE APPLICATION. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:  
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION  
WOOD' PERMITS  
4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530  
ATTC: PERMITS UNIT

## FLOODPLAIN STATEMENT:

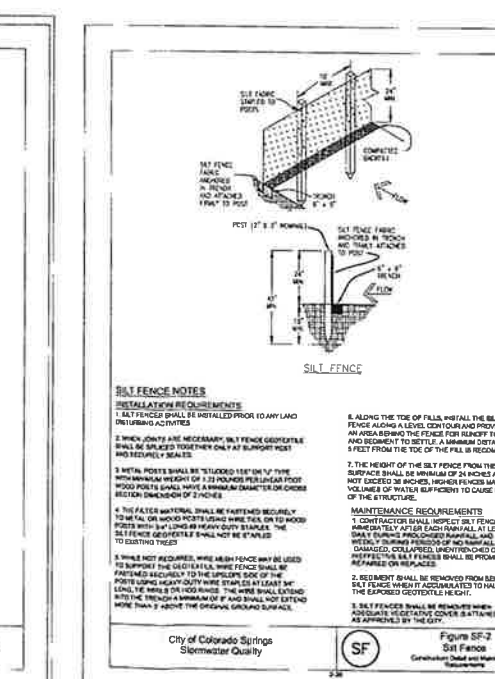
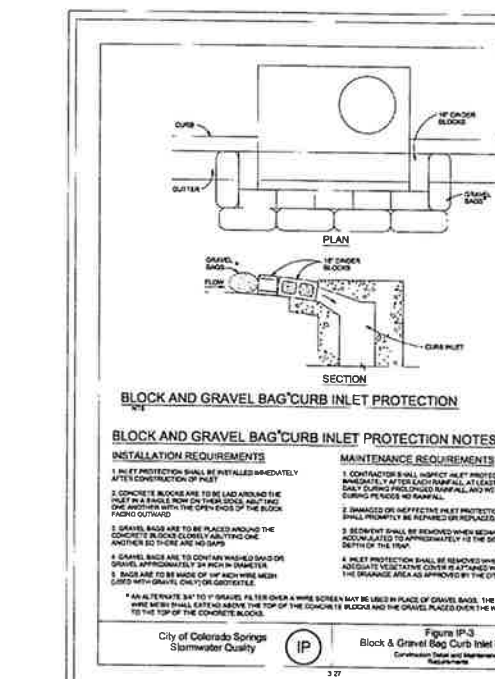
THE FLOOD INSURANCE RATE MAPS (FIRM) FOR EL PASO COUNTY FLOOD INSURANCE STUDY (FIS) PANEL 0804100575F DATED NOVEMBER 2003 WAS REVIEWED TO DETERMINE IF ANY REGULATORY FLOODPLAINS PASS THROUGH THE PROPERTY. THERE IS A PORTION OF THE WEST TRIBUTARY (EXTENDING TO THE FIRM PANEL, AS THE UNKNOWN TRIBUTARY TO BLACK SQUIRREL CREEK NO. 2) THAT HAS BEEN DELINEATED BY FEMA WITHIN THE BENT GRASS PROPERTY. HOWEVER, NO PORTION OF THIS SPECIFIC STREET PLAN DEVELOPMENT IS WITHIN THIS AREA. REFER TO FLOODPLAIN MAP APPENDIX.



Basin Depth (ft)	Basin Length (ft)	Basin Width (ft)	Basin Volume (cu ft)	Basin Area (sq ft)	Basin Perimeter (ft)
1.0	10.0	10.0	100.0	100.0	40.0
1.5	15.0	15.0	225.0	225.0	60.0
2.0	20.0	20.0	400.0	400.0	80.0
2.5	25.0	25.0	625.0	625.0	100.0
3.0	30.0	30.0	900.0	900.0	120.0
3.5	35.0	35.0	1225.0	1225.0	140.0
4.0	40.0	40.0	1600.0	1600.0	160.0
4.5	45.0	45.0	2025.0	2025.0	180.0
5.0	50.0	50.0	2500.0	2500.0	200.0
5.5	55.0	55.0	3025.0	3025.0	220.0
6.0	60.0	60.0	3600.0	3600.0	240.0
6.5	65.0	65.0	4225.0	4225.0	260.0
7.0	70.0	70.0	4900.0	4900.0	280.0
7.5	75.0	75.0	5625.0	5625.0	300.0
8.0	80.0	80.0	6400.0	6400.0	320.0
8.5	85.0	85.0	7225.0	7225.0	340.0
9.0	90.0	90.0	8100.0	8100.0	360.0
9.5	95.0	95.0	9025.0	9025.0	380.0
10.0	100.0	100.0	10000.0	10000.0	400.0

Basin Depth (ft)	Basin Length (ft)	Basin Width (ft)	Basin Volume (cu ft)	Basin Area (sq ft)	Basin Perimeter (ft)
1.0	10.0	10.0	100.0	100.0	40.0
1.5	15.0	15.0	225.0	225.0	60.0
2.0	20.0	20.0	400.0	400.0	80.0
2.5	25.0	25.0	625.0	625.0	100.0
3.0	30.0	30.0	900.0	900.0	120.0
3.5	35.0	35.0	1225.0	1225.0	140.0
4.0	40.0	40.0	1600.0	1600.0	160.0
4.5	45.0	45.0	2025.0	2025.0	180.0
5.0	50.0	50.0	2500.0	2500.0	200.0
5.5	55.0	55.0	3025.0	3025.0	220.0
6.0	60.0	60.0	3600.0	3600.0	240.0
6.5	65.0	65.0	4225.0	4225.0	260.0
7.0	70.0	70.0	4900.0	4900.0	280.0
7.5	75.0	75.0	5625.0	5625.0	300.0
8.0	80.0	80.0	6400.0	6400.0	320.0
8.5	85.0	85.0	7225.0	7225.0	340.0
9.0	90.0	90.0	8100.0	8100.0	360.0
9.5	95.0	95.0	9025.0	9025.0	380.0
10.0	100.0	100.0	10000.0	10000.0	400.0



SPECIES (COMMON NAME)	GROWTH HABIT	SEEDING DATE	NUMBER OF PURE LVS PER SQ FT (EST.)	PLANTING DEPTH (INCHES)
1. BENT GRASS	COOL	MARCH 15 - APRIL 30	20-25	1-2
2. SPRING WHEAT	COOL	MARCH 15 - APRIL 30	20-25	1-2
3. BROWN HAWK BIT	COOL	MARCH 15 - APRIL 30	20-25	1-2
4. BLUE GRASS	WARM	MAY 1 - JULY 15	20-25	1-2
5. TALL FESCUE	WARM	MAY 1 - JULY 15	20-25	1-2
6. SUDAN GRASS	WARM	MAY 1 - JULY 15	20-25	1-2
7. BERMUD GRASS	WARM	MAY 1 - JULY 15	20-25	1-2
8. CRAB GRASS	WARM	MAY 1 - JULY 15	20-25	1-2
9. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-25	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-25	1-2
11. HYDRILLA	COOL	SEPTEMBER 1 - 30	20-25	1-2

Basin Depth (ft)	Basin Length (ft)	Basin Width (ft)	Basin Volume (cu ft)	Basin Area (sq ft)	Basin Perimeter (ft)
1.0	10.0	10.0	100.0	100.0	40.0
1.5	15.0	15.0	225.0	225.0	60.0
2.0	20.0	20.0	400.0	400.0	80.0
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3.0	30.0	30.0	900.0	900.0	120.0
3.5	35.0	35.0	1225.0	1225.0	140.0
4.0	40.0	40.0	1600.0	1600.0	160.0
4.5	45.0	45.0	2025.0	2025.0	180.0
5.0	50.0	50.0	2500.0	2500.0	200.0
5.5	55.0	55.0	3025.0	3025.0	220.0
6.0	60.0	60.0	3600.0	3600.0	240.0
6.5	65.0	65.0	4225.0	4225.0	260.0
7.0	70.0	70.0	4900.0	4900.0	280.0
7.5	75.0	75.0	5625.0	5625.0	300.0
8.0	80.0	80.0	6400.0	6400.0	320.0
8.5	85.0	85.0	7225.0	7225.0	340.0
9.0	90.0	90.0	8100.0	8100.0	360.0
9.5	95.0	95.0	9025.0	9025.0	380.0
10.0	100.0	100.0	10000.0	10000.0	400.0

INSTALLATION REQUIREMENTS	MAINTENANCE REQUIREMENTS
1. DISTURBED AREAS ARE TO BE SEED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED.	1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDING AREAS TO MONITOR GROWTH.
2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY AMENDING SOIL WITH FERTILIZER, OR LIME.	2. AREAS WHERE GROWTH IS NOT OCCURRING OR WHERE THE GRASS HAS BEEN SEEDING SHALL BE RESEED AS SOON AS POSSIBLE.
3. SOIL IS TO BE MOISTENED BY SPRINKLING OR APPLYING SEEDS, COMPACT SOILS ESPECIALLY IN THE TOP 2 INCHES.	3. SEEDING AREAS ARE TO BE SEEDING OVER WITH CONSTRUCTION EQUIPMENT ON WHEELS.
4. SEEDING DEPTH IS TO BE 1/2 INCH FOR ALL SEEDS.	
5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEEDS ARE NOT TO CONTAIN ANY NOXIOUS WEEDS OR INJURIOUS SUBSTANCES TO CATTLE OR OTHER LIVESTOCK.	
6. TABLE TS-1 ALSO PROVIDES RECOMMENDATIONS FOR SEEDING AREAS. SEED NO. DATES, AND PLANTING DEPTH FOR EACH RECOMMENDED TYPE OF ANNUAL GRASS.	
7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE OR BROADCASTER OR SPREADER. SEED IS TO BE APPLIED AT A RATE OF 10 LBS PER 1000 SQ FT.	
8. IF HYDRILLA SEEDING IS USED, SEEDING DEPTH IS TO BE 1/2 INCH.	
9. IF HYDRILLA SEEDING IS USED, SEEDING DEPTH IS TO BE 1/2 INCH.	
10. IF HYDRILLA SEEDING IS USED, SEEDING DEPTH IS TO BE 1/2 INCH.	

DESIGNED BY	SCALE	DATE	4-27-12
DRAWN BY	(H) 1" = N/A	SHEET	5 OF 6
CHECKED BY	(V) 1" = N/A	JOB NO.	2177.31

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**1-800-922-1987**  
CITY OF COLORADO SPRINGS DEPT. OF UTILITIES  
GAS, ELECTRIC, WATER AND WASTEWATER

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	PER EL PASO COUNTY COMMENTS	3-27-12
2	PER EL PASO COUNTY COMMENTS	4-27-12

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

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

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

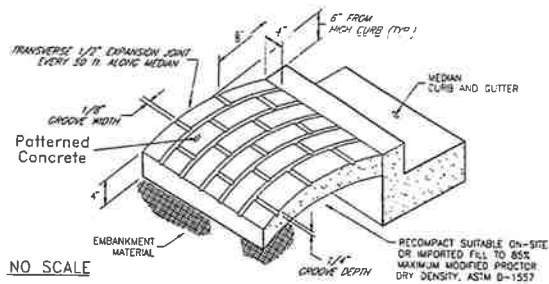
6385 Corporate Drive, Suite 101  
Colorado Springs, Colorado 80919  
(719) 785-0790  
(719) 785-0799 (Fax)

BENT GRASS  
CONSTRUCTION DOCUMENTS  
BENT GRASS MEADOWS DR. EAST (INTERIM PLAN)  
DETAILS

DESIGNED BY DLG SCALE DATE 4-27-12  
DRAWN BY DLG (H) 1" = N/A SHEET 5 OF 6  
CHECKED BY (V) 1" = N/A JOB NO. 2177.31

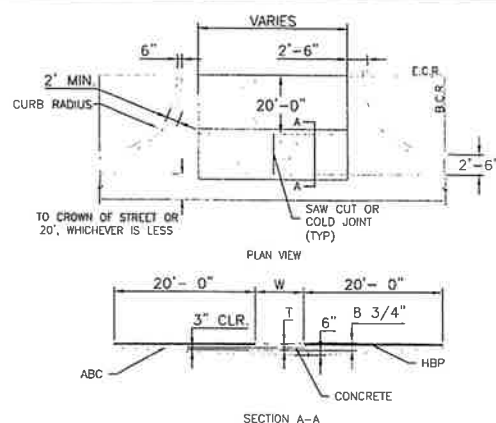
CLASSIC  
CONSULTING  
ENGINEERS & SURVEYORS





- NOTES**
- The median paving shall be constructed with 4 inch thick, integrally colored concrete, embossed with a running bond 4" x 6" brick pattern as shown.
  - Install 1/2" x 4" expansion material at median noses, fixed objects, and at transverse joints at 50 ft intervals (maximum) along the median.
  - The color additive shall be an approved commercially pure or synthetic mineral pigment, factory formulated and packaged in cubic yard dosage increments. The mixture shall be "Chromia" as manufactured by L.M. Scofield Company, "Doris Colors" as manufactured by Davis Color Company, or approved equal.
  - Patterned concrete to be colored L.M. Scofield Company "Santa Barbara Brown, C-35", Davis Color Company, Pigment No. 678, 5 lbs/bag, or an approved equal.
  - The matching curing compound shall be a blend of waxes and pigments in a solvent emulsion base and conform to the requirements of ASTM C-309. The curing compound shall be "Lithocrome Colormax" as manufactured by L.M. Scofield Company, "Davis Color-Seal" as manufactured by Davis Color Company, or approved equal.
  - The concrete mix design shall conform to the requirements of the color admixture manufacturer and the following:
    - 28-day compressive strength = 3000 psi (min.)
    - Water/Cement Ratio = 0.45 (max.)
    - Cement Content = 6-1/2 sacks/c.y. (min.) (Type II cement)
    - Maximum Aggregate Size = 3/8"
    - Entrained Air Content = 6% - 10%
    - Slump = 4 inches (max.) - 1 inch (min.)
  - For weed control prior to median paving, apply a pre-emergent herbicide to median subgrade area per manufacturer's specifications for paving under the Barrier 50 Label (per carton). Trifluralin is labeled for use under asphalt under the Trifluralin 40C label (E-1000).

CITY OF COLORADO SPRINGS  
Patterned Concrete  
Median Paving  
DESIGNED BY: [Signature]  
DATE: 7/17/07  
DRAWN BY: [Signature]  
DATE: 8/23/07

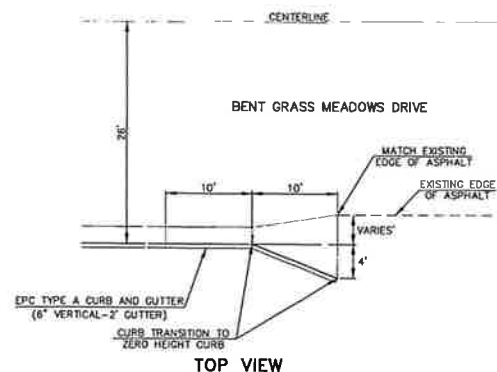


- NOTES**
- W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
  - T - SQUARED-OFF RETURN TO BE POURED MONOLITHIC 6" PCC OR 9" FOR COLLECTORS MINIMUM WITH 6x6 - 4.4 W.W.F. OR #4 @ 18" E.W.
  - 1 = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
  - DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR

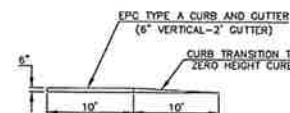
SCALE: NOT TO SCALE

Typical Cross Pavement  
Layout Detail  
Standard Drawing

DATE APPROVED: [Signature]  
DESIGNER: [Signature]  
DATE: 11/10/04  
FILE NAME: SD\_2-26



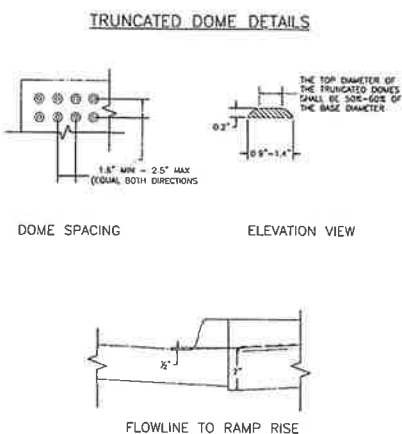
TOP VIEW



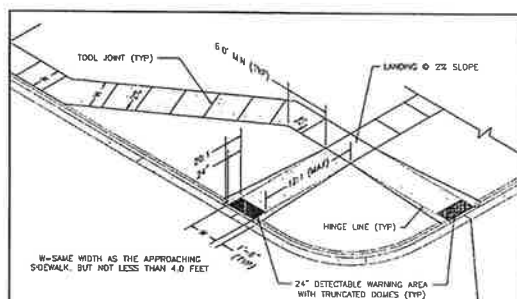
FRONT VIEW

CURB AND GUTTER TRANSITION  
AND TERMINATION DETAIL

SCALE: 1" = 10'



FLOWLINE TO RAMP RISE



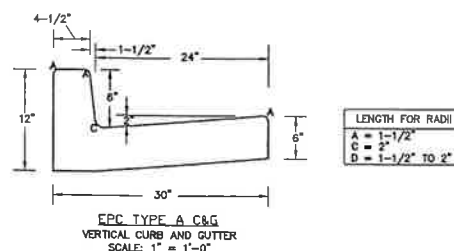
- PEDESTRIAN RAMP NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND ALL REQUIREMENTS.
  - CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
  - PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 3000 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCURED, COMBINED FINISH.
  - RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12' MINIMUM RAMP WIDTH AND 10' DETECTABLE WARNING AREA DUE TO STREET INTERSECTION, EXISTING UTILITY ALIGNMENTS.
  - DETECTABLE WARNING AREA SHALL START A MINIMUM OF 4' BUT NOT MORE THAN 8' FROM THE FLARE OF THE CURB AT ANY POINT.
  - DETECTABLE WARNING AREA SHALL BE PREPARED BY EITHER ATRITALLY COLORED TRUNCATED-DOME SURFACING TECHNOLOGY, OR BY THE USE OF TRUNCATED-DOME SURFACING TECHNOLOGY. THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
  - RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK, 4' MINIMUM.
  - ALL RAMP SHALL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF APPROACHES TO TYPICAL RAMP WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
  - APPROACHING SIDEWALK STRUCTUREL DRAINAGE SHALL BE MAINTAINED OR IMPROVED TO MAINTAIN DRAINAGE TO THE RAMP.

**GENERAL NOTES**

- WHERE THE 12' MINIMUM RAMP WIDTH IS MAINTAINED WITH A DETECTABLE WARNING AREA, THE MINIMUM RAMP LENGTH SHALL NOT EXCEED 10'.
- PEDESTRIAN RAMP LENGTH AND LOCATION OF CURBING OR ELEVATION DETAIL SHALL BE DETERMINED BY THE CONTRACTOR.
- 4' MINIMUM DETECTABLE WARNING AREA, THE BOTTOM OF THE RAMP, CLOSING OF THE RAMP SHALL BE FULLY COVERED WITH THE WARNING.

DRAFT  
DATE APPROVED: [Signature]  
DESIGNER: [Signature]  
DATE: 7/09/07  
FILE NAME: SD\_2-40

Pedestrian Intersection  
Ramp  
Standard Drawing



EPC TYPE A C&G  
VERTICAL CURB AND GUTTER  
SCALE: 1" = 1'-0"

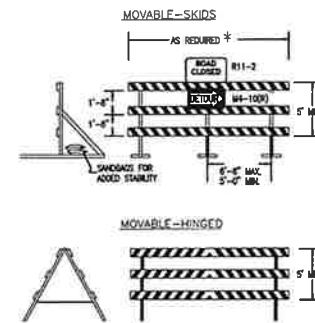


STOP (R1-1)  
(30X30)

RAIL LENGTH TABLE *	
TYPE 3 BARRICADE	LENGTH
F - A	M - A 8' - 14'
F - B	M - B 15' - 24'
F - C	M - C 25' - 35'
F - D	M - D > 35'

**NOTES**

- TYPE 3 BARRICADES HAVE 3 INSTALLATION POSITIONS: FACING TRAFFIC IN ONE DIRECTION AND 2 FACING TRAFFIC IN TWO DIRECTIONS.
- THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE COLOR, NOTE.
- DETACHABLE EXTENSION WING BARS FOR BYPASSING OF CONSTRUCTION EQUIPMENT ARE PERMITTED, WHEN NECESSARY, ON FIXED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADJUSTED TO CLOSE THE BARRICADE AND/OR SHOULDER AS REQUIRED.



TYPICAL TYPE 3 BARRICADES

DESIGN DATA:

SIDEWALKS: LOCATION: ☐ Attached ☐ Detached  
CURB TYPE: ☐ 1 ☐ 5 ☐ 3  
R/W WIDTH: FL-FL  
STREET TYPE: HVEEM

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

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NO. REVISION

NO.	REVISION	DATE
1	PER EL PASO COUNTY COMMENTS	3-27-12
2	PER EL PASO COUNTY COMMENTS	4-27-12

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: 4/2/12



6385 Corporate Drive, Suite 101  
Colorado Springs, Colorado 80919  
(719) 785-0760  
(719) 785-0799 (Fax)

BENT GRASS  
CONSTRUCTION DOCUMENTS  
BENT GRASS MEADOWS DR. EAST (INTERIM PLAN)  
DETAILS

DESIGNED BY	MAW	SCALE	DATE	4-27-12
DRAWN BY	DLG	(H) 1" = N/A	SHEET	6 OF 6
CHECKED BY	(V) 1" = N/A	JOB NO.	2177-31	

CLASSIC CONSULTING ENGINEERS & SURVEYORS