PoDI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PoDI)?	■NO □YES
NATIONAL HIGHWAY SYSTEM?	■NO YES

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO
CITY OF GREELEY - ENGINEERING DEPT.

CONSTRUCTION BID PLANS OF PROPOSED
FEDERAL AID PROJECT NO. STU M570-046
65TH AVENUE IMPROVEMENTS
CITY OF GREELEY, WELD COUNTY
CONSTRUCTION PROJECT CODE NO. 20148

Related Projects:
P.E. UNDER PROJECT
STU M570-046
PROJECT CODE: 20148

R.O.W. Projects:
CITY OF GREELEY
65TH AVENUE IMPROVEMENTS
STU M570-046
PROJECT CODE: 20148

TABULATION OF LENGTH AND DESIGN DATA

STATION DESCRIPTION	ROADWAY LINEAR FEET	ROADWAY MILES
STA 17+43 BEGIN PROJECT LIMITS STA 62+00 END PROJECT LIMITS	4,457	0.844
TOTAL	4,457	0.844

DESIGN DATA	FEET
MAXIMUM RADIUS OF CURVE	> 10,000
MAXIMUM GRADE	3.5%
MINIMUM S.S.D. HORIZONTAL	> 360'
MINIMUM S.S.D. VERTICAL	360'
MAXIMUM DESIGN SPEED	45 MPH
2035 DESIGN TRAFFIC	40,000 ADT
DHV TRUCKS %	1%
CLEAR ZONE	12'

* FOR INFORMATION ONLY



PROJECT LOCATION MAP
SCALE: 1"=5000'

INDEX OF SHEETS

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6–10	TYPICAL SECTIONS
11	SUMMARY OF APPROXIMATE QUANTITIES
12	SUMMARY OF EARTHWORK
13	TABULATION OF REMOVALS & RESETS
14	TABULATION OF ADJUSTMENT, RESET & WATER
15	TABULATION OF CONCRETE & ASPHALT
16	TABULATION OF STORMWATER
17	TABULATION OF SIGNING AND STRIPING
18	TABULATION OF SURVEY
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IR1.00–IR2.12	IRRIGATION PLANS (28 SHEETS)

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH APPLICABLE CITY OF GREELEY CONSTRUCTION STANDARDS. THE CITY'S ACCEPTANCE ALLOWS FOR PLAN DISTRIBUTION AND PERMIT APPLICATION. THE CITY'S ACCEPTANCE SHALL NOT RELIEVE THE DESIGN ENGINEER'S RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DESIGN DEFICIENCIES FOR WHICH THE CITY IS HELD HARMLESS.

THESE CONSTRUCTION PLANS FOR THE SITE WERE PREPARED BY ME (OR UNDER MY DIRECT SUPERVISION) IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS AND THE STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA OF THE CITY OF GREELEY.

MICHAEL OBERLANDER
REGISTERED PROFESSIONAL ENGINEER
STATE OF COLORADO NO. 34288
INTERWEST CONSULTING GROUP
(970) 674-3300

ACCEPTED BY: _____ CITY ENGINEER — 6/21/16 DATE

ACCEPTED BY: _____ DIRECTOR OF WATER & SEWER — 7/6/16 DATE

ACCEPTED BY: _____ CITY OF GREELEY FIRE CHIEF — 6/21/16 DATE

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Region 4 LHN

As Constructed	
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Contract Information	
Contractor:	
Resident Engineer:	
Project Engineer:	
PROJECT STARTED: / /	ACCEPTED: / /
Comments:	

Project No./Code
STU M570-046
20148
SHEET NUMBER 1

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
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COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 04, 2012

Revised on March 29, 2016

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX ■, WILL BE ATTACHED TO THE PLANS.

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COLORADO REGISTERED
MICHAEL PAUL OBERMANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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STANDARD PLANS LIST

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Detailer:	S. WEIER		
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Project No./Code
STU M570-046
20148
SHEET NUMBER 2

CITY OF GREELEY GENERAL NOTES:

1. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, OR EASEMENT SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS AND IN ACCORDANCE WITH THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2011 EDITION AND THE PROJECT SPECIAL PROVISIONS. IF THE CITY AND CDOT STANDARDS ARE IN CONFLICT, THE MORE STRINGENT STANDARD OR DETAIL SHALL APPLY AS DETERMINED BY THE PE.

2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED.

3. THE CONTRACTOR SHALL NOTIFY CONSTRUCTION SERVICES (970-350-9358) AT LEAST 24 HOUR PRIOR TO DESIRED INSPECTION.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY, OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED BY THE CONTRACTOR, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-SUBMITTING THE REVISED PLANS TO THE CITY OF GREELEY FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.

6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED SURVEYOR PRIOR TO DISTURBING ANY MONUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, AT THEIR EXPENSE, ANY PROPERTY PINS OR SURVEY MONUMENTS REMOVED OR DESTROYED DURING CONSTRUCTION, AS PER SECTION 629 OF THE SPECIFICATIONS.

9. PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEYOND CURB LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.

10. THE GEOTECHNICAL REPORT FOR THIS PROJECT SHALL BE FOLLOWED AND IMPLEMENTED.

11. REPRODUCIBLE COPIES OF RECORD DRAWING PLANS SHALL BE SUBMITTED TO THE CITY OF GREELEY PRIOR TO CONSTRUCTION ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

12. ALL CONCRETE SHALL BE CDOT CLASS D EXCEPT CAISSONS WHICH SHALL BE CDOT CLASS BZ.

13. FOR PRELIMINARY PLAN QUANTITIES OF BITUMINOUS MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
DILUTED EMULSIFIED ASPHALT AT 0.10 GAL/SY (DILUTED)
BITUMINOUS PAVEMENT AT 110 LBS/IN-SY
AGGREGATE BASE COURSE AT 110 LBS/IN-SY

14. A TACK COAT OF DILUTED EMULSIFIED ASPHALT (SLOW SETTING) IS REQUIRED PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS OF HOT BITUMINOUS PAVEMENT. PRIOR TO PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE SURFACE THAT IS TO RECEIVE THE TACK COAT AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT AND CLEANING SHALL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE HOT BITUMINOUS PAVEMENT.

15. EMULSIFIED ASPHALT (SLOW SETTING) SHALL BE DILUTED USING 1 PART EMULSIFIED ASPHALT (SLOW SETTING) AND 1 PART WATER. RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.

16. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
1 A SKI TYPE DEVICE AT LEAST 40 FEET IN LENGTH.
2 SHORT SKI OR MATCHING SHOE.
3 LOW LIFT LOADER (TO TRANSFER ASPHALT MIX FROM WINDROW TO PAVEMENT HOPPER)

17. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE THE SUCCEEDING LAYER IS PLACED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

18. ROAD APPROACHES SHALL BE PAVED TO THE LIMITS SHOWN ON THE PLANS. APPROACH RADII SHALL BE AS SHOWN ON THE PLANS. GRAVEL SHALL BE PLACED FROM THE HMA TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED.

19. CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TRAFFIC AT ALL APPROACHES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

20. DEPTH OF MOISTURE-DENSITY CONTROL OF THIS PROJECT SHALL BE AS FOLLOWS:
FULL DEPTH OF ALL EMBANKMENTS
BASES OF CUTS AND FILLS: 0.5 FOOT
EXCAVATION REQUIRED FOR COMPACTION OF THE BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.

21. THE TYPE OF COMPACTION FOR THIS PROJECT SHALL BE AASHTO T99 WITH AT LEAST 95% COMPACTION OF AASHTO T99 TEST RESULTS OR AS DIRECTED BY THE ENGINEER.

22. WATER SHALL BE USED AS ADJUST PALLIATIVE WHERE REQUIRED TO REDUCE MIGRATION OF AIR BORNE SOIL PARTICLES. CONTRACTOR SHALL PROVIDE WATER AS DUST PALLIATIVE AS DIRECTED BY THE ENGINEER. WATER AS DUST PALLIATIVE WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

23. EXISTING FENCES, TREES, STREETS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT, SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS, PRIOR TO THE ACCEPTANCE OF COMPLETED IMPROVEMENTS.

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CITY OF GREELEY GENERAL NOTES (CONTINUED):

24. THE TYPE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNKNOWN UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RELOCATION OF ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.11 OF CDOT SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. IF A CONFLICT EXISTS BETWEEN EXISTING AND PROPOSED UTILITIES AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY GREELEY PRIOR TO BEGINNING CONSTRUCTION. ALL REQUIRED UTILITY RELOCATIONS ARE NOT SHOWN ON THESE PLANS. ALL UTILITY RELOCATION WORK SHALL BE PERFORMED BY EACH RESPECTIVE UTILITY COMPANY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES INVOLVED, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.

25. UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON THE SURVEY THAT WAS COMPLETED IN 2011 AS WELL AS POTHOLE ACTIVITIES IN 2016.

26. DURING CONSTRUCTION, SHOULDER DROP OFFS WILL BE GRADED TO A SLOPE OF 3:1 OR GREATER OVERNIGHT.

27. A STATE CONSTRUCTION DEWATERING WASTEWATER DISCHARGE PERMIT IS REQUIRED IF DEWATERING IS REQUIRED OR WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES.

28. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, AND THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY. REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING.

29. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.

30. ALL JOINTS BETWEEN NEW AND OLD ASPHALT SHALL BE SAW CUT AND BUTT JOINTS PREPARED AS DIRECTED BY THE ENGINEER. WHERE IT IS REQUIRED TO CUT EXISTING PAVEMENT, THE PAVEMENT SHALL BE SAW CUT ONLY TO THE FULL DEPTH OF THE PAVEMENT. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE REMOVAL OF THE PAVEMENT MAT.

31. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER FOR CLARIFICATION.

32. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

33. VALVE BOXES AND MANHOLES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.

34. TREE TRIMMING AND/OR REMOVAL ACTIVITIES SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31. HOWEVER, SINCE SOME BIRDS NEST AS EARLY AS FEBRUARY, A NESTING BIRD SURVEY SHALL BE CONDUCTED BY A BIOLOGIST BEFORE ANY TREE TRIMMING OR REMOVAL ACTIVITIES BEGIN.

35. THIS PROJECT IS CLASSIFIED AS NON-SIGNIFICANT.

36. THIS PROJECT WILL COMPLY WITH ALL CDOT 'BUY AMERICA' REQUIREMENTS AND THE CONTRACTOR MUST PROVIDE BUY AMERICA CERTIFICATES BEFORE ANY MATERIAL IS ACCEPTED FOR THIS PROJECT.

37. UPON THE COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AND RESTORE THE SITE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION, OR TO THE GRADES AND CONDITION AS REQUIRED BY THESE PLANS. ALL COST TO CLEAN AND RESTORE TO BE PAID FOR BY THE CONTRACTOR.

CITY OF GREELEY WATER AND SANITARY SEWER GENERAL NOTES:

1. ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF GREELEY'S STANDARD SPECIFICATIONS, LATEST EDITION.

2. ALL OVER LOT GRADING IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE COMPLETED PRIOR TO INSTALLING WATER OR SANITARY SEWER LINES.

3. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE FOLLOWING NOTIFICATION SHALL BE INCLUDED TO REMIND THE CONTRACTOR OF THIS RESPONSIBILITY.

4. CALL UTILITY NOTIFICATION CENTER OF COLORADO -811- CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

5. MAINTAIN A MINIMUM OF 10 FOOT HORIZONTAL CLEAR DISTANCE SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES. WATER MAINS AND SERVICES ARE TO BE LOCATED 18- INCHES MINIMUM ABOVE THE SANITARY SEWER MAIN OR SERVICES. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS AND THE SANITARY SEWER CANNOT BE LOCATED BELOW THE WATER MAIN OR SERVICE, A CLEAR VERTICAL DISTANCE OF 18-INCHES CANNOT BE MAINTAINED, OR A MINIMUM 10 FOOT HORIZONTAL SEPARATION CANNOT BE ACHIEVED, THE CITY OF GREELEY'S INSPECTION SERVICES SHALL BE CONTACTED IMMEDIATELY TO REVIEW THE SITUATION. IF NO OTHER FEASIBLE SOLUTION CAN BE USED TO MAINTAIN THE REQUIRED CLEARANCES, THE SANITARY SEWER SHALL BE ENCASED PER CURRENT CITY OF GREELEY CONSTRUCTION STANDARDS WITH THE ACCEPTANCE OF THE CITY OF GREELEY WATER AND SEWER DEPARTMENT.

6. IN ALL INSTANCES WHERE A WATER LINE LOWERING IS REQUIRED DUE TO UNFORESEEN FIELD CONDITIONS, A DETAILED DRAWING SHALL BE PROVIDED TO THE CITY OF GREELEY WATER AND SEWER DEPARTMENT FOR ACCEPTANCE PRIOR TO PERFORMING THE WORK. THE DRAWING SHALL INCLUDE ELEVATIONS OF THE WATER LINE AT ALL FITTINGS AND ELEVATIONS OF THE UTILITY BEING CROSSED. PIPE MATERIAL SHALL BE RESTRAINED DUCTILE IRON PIPE, MINIMUM THICKNESS CLASS 51.

7. WHERE WATER AND SANITARY SEWER LINES ARE LOCATED IN COMMON UTILITY EASEMENT AREAS, THERE SHALL BE NO OTHER UTILITIES LOCATED HORIZONTALLY WITHIN 10 FEET OF EITHER LINE EXCEPT AT APPROVED CROSSINGS. CONTRACTOR SHALL NOTIFY THE CITY OF GREELEY FIELD CONSTRUCTION SERVICES (970-350-9358) ONE WEEK PRIOR TO COMMENCING WORK AFTER CITY ACCEPTED CONSTRUCTION DRAWING DISTRIBUTION AND PRE CONSTRUCTION MEETING HELD WITH THE CITY.

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FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

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Designer: M. OBERLANDER			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

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STU M570-046
20148
SHEET NUMBER 3

CITY OF GREELEY WATER AND SANITARY SEWER GENERAL NOTES (CONTINUED):

8. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO BE CROSSED BY WATER AND/OR SEWER LINES AT LEAST 24 HOURS PRIOR TO CROSSING TO ENSURE 18–INCH MINIMUM CLEARANCE IF OPEN CUT METHODS ARE USED AND 24–INCH MINIMUM CLEARANCE FOR BORED CROSSINGS. IF VERTICAL CLEARANCE CANNOT BE MET AS SHOWN ON THE DRAWINGS, CONTACT THE DESIGN ENGINEER IMMEDIATELY. HORIZONTAL AND VERTICAL LOCATION OF CROSSED EXISTING UTILITIES SHALL BE RECORDED ON THE AS–BUILT RECORD DRAWINGS.

9. SHOULD ANY VARIATIONS BEFORE OR DURING CONSTRUCTION TO THE WATER MAIN OR SANITARY SEWER COLLECTION SYSTEM DESIGN(S) BE CONSIDERED, NOTICE MUST FIRST BE GIVEN TO THE CITY'S INSPECTOR TO DETERMINE IF IT NEEDS THE ACCEPTANCE OF THE WATER AND SEWER DEPARTMENT DIRECTOR. IF SO, THE NEW PLAN MUST BE DRAWN AND SUBMITTED FOR ACCEPTANCE TO THE DIRECTOR BY THE CONTRACTOR'S ENGINEER 72 HOURS PRIOR TO CONSTRUCTION FOR ACCEPTANCE.

10. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH CERTIFIED AS–BUILT RECORD DRAWING TRANSPARENCIES UPON COMPLETION OF ANY PHASE OF CONSTRUCTION WITH MORE THAN A 30–DAY LAPSE BETWEEN PHASES. NO BUILDING PERMITS FOR CONSTRUCTION OF ANY STRUCTURE WITHIN THE DEVELOPMENT SHALL BE ISSUED BY THE CITY OF GREELEY UNTIL THE AS–BUILT RECORD DRAWINGS HAVE BEEN RECEIVED AND ACCEPTED BY THE CITY.

11. WATER AND SANITARY SEWER WARRANTY PERIOD WILL NOT BEGIN UNTIL AS–BUILT RECORD DRAWINGS ARE ACCEPTED BY THE CITY OF GREELEY WATER AND SEWER DEPARTMENT.

12. ALL WATER MAINS, FIRE HYDRANT LINES, AND SERVICES SHALL HAVE A MINIMUM COVER OF 5.0 FEET AND A MAXIMUM COVER OF 6.0 FEET UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

13. ALL WATER MAINS SHALL BE LAID AS CLOSE AS POSSIBLE TO THE CENTER LINE OF STREETS UNLESS OTHERWISE SHOWN. IN NO CASE SHALL WATER MAINS BE LAID WITHIN 8 FEET OF THE LIP OF THE GUTTER OR EDGE OF UNPAVED STREET.

14. ALL VALVES ARE TO BE LOCATED AT PROPERTY LINES EXTENDED.

15. TYPICAL WATER SERVICES SHALL BE TYPE "K" COPPER AND BE CENTERED ON THE LOT FRONTAGE UNLESS OTHERWISE NOTED.

16. TYPICAL SANITARY SEWER SERVICE SHALL BE PVC SDR 35 PIPE.

17. ALL NEW WATER MAINS SHALL BE BULKHEADED AND TESTED AND APPROVED PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM. VALVES WHICH PASS TESTING FOR PRESSURE AND LEAKAGE AT THE TIME OF INSTALLATION AND THE TESTING WAS PERFORMED IN THE PRESENCE OF THE CITY MAY BE CONSIDERED AS A BULKHEAD.

18. ALL VALVES AT DEAD ENDS SHALL BE RESTRAINED WITH RESTRAINING GLANDS UP–STREAM OF THE VALVE. LENGTH OF RESTRAINT IS SHOWN ON THE DRAWINGS.

19. ANY EXISTING STUB OUTS, INCLUDING BUT NOT LIMITED TO SERVICE TAPS, ON EXISTING WATER MAINS NOT BEING UTILIZED BY THIS PROJECT ARE TO BE ABANDONED AT THE MAIN AT THE CONTRACTOR'S EXPENSE PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.

20. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED IN ACCORDANCE WITH AWWA STANDARD C–105.

21. NO POLYVINYL CHLORIDE (PVC) PIPE STORED OUTSIDE AND EXPOSED TO SUNLIGHT SHALL EXCEED THE MANUFACTURER'S RECOMMENDATION EXPOSURE TIME. THIS TIME SHALL BEGIN FROM THE DATE OF MANUFACTURE. IF THE TIME WILL BE GREATER THAN THE MANUFACTURE'S RECOMMENDED TIME, THE PIPE SHALL BE COVERED WITH AN OPAQUE MATERIAL. AIR CIRCULATION SHALL BE PROVIDED UNDER THE COVERING.

22. COPPER TRACING WIRE SHALL BE INSTALLED PER CITY OF GREELEY SPECIFICATIONS FOR ALL WATER PIPE.

23. FOR TAPPING PVC C–900 PIPE, A CITY APPROVED TAPPING SADDLE SHALL BE USED. THE TAPPING MACHINE USED TO MAKE THE CONNECTION MUST OPERATE WITH A CUTTING/TAPPING TOOL WHICH IS CLASSIFIED AS A CORE CUTTING TOOL (EITHER WITH INTERNAL TEETH OR WITH DOUBLE SLOTS) OF THE SHELL DESIGN WHICH RETAINS THE COUPON WHILE PENETRATING THE WALL OF THE WATER MAIN. THE TAPPING MACHINE SHOULD PROVIDE THE STANDARD RATCHET HANDLE ON THE BORING BAR AND SHOULD BE OF THE DESIGN WHERE CUTTING AND TAPPING IS CONTROLLED AND ACCOMPLISHED WITH A FEED–NUT OR FEED–SCREW AND YOKE.

24. ALL BACKFLOW PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE COLORADO CROSS–CONNECTION CONTROL MANUAL, LATEST EDITION, AND AS REQUIRED NECESSARY BY THE CITY OF GREELEY WATER AND SEWER DEPARTMENT. ALL BACKFLOW ASSEMBLIES MUST BE TESTED UPON INSTALLATION AND JUST PRIOR TO END OF WARRANTY PERIOD. OWNER SHALL BE RESPONSIBLE FOR TESTING EACH YEAR THEREAFTER.

25. FIRE HYDRANT LEADS ARE RESTRAINED DIP.

26. ALL UTILITIES CROSSING WATER AND/OR SANITARY SEWER LINES MUST BE ENCASED IN HDPE SDR 11 PIPE ACROSS THE ENTIRE EASEMENT OR RIGHT–OF–WAY WIDTH OR 10' ON EITHER SIDE OF THE LINE BEING CROSSED. THE ENCASEMENT SHALL BE BUTT JOINT FUSED. FLEXIBLE JOINTS ARE NOT ALLOWED.

GRADING AND EROSION CONTROL NOTES:

1. ALL SITE GRADING (EXCAVATION, EMBANKMENT, AND COMPACTION) SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST SOILS INVESTIGATION FOR THIS PROJECT AND SHALL FURTHER BE IN CONFORMANCE WITH THE CITY'S STANDARDS AND SPECIFICATIONS.

2. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATION AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.

3. TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICABLE ON THE SITE FOR USE IN AREAS TO BE REVEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROTECTED FROM EROSIVE ELEMENTS.

4. TEMPORARY VEGETATION SHALL BE INSTALLED ON ALL DISTURBED AREAS WHERE PERMANENT SURFACE IMPROVEMENTS ARE NOT SCHEDULED FOR INSTALLATION WITHIN THREE MONTHS. VEGETATION SHALL BE A VIGOROUS, DROUGHT TOLERANT NATIVE SPECIES MIX. REFER TO THE TABLE PROVIDED HEREIN FOR DRY LAND SEEDING MIX. PROJECT SCHEDULING SHOULD TAKE ADVANTAGE OF SPRING OR FALL PLANTING SEASONS FOR NATURAL GERMINATION, BUT SEEDED AREAS SHALL BE IRRIGATED, IF CONDITIONS SO MERIT.

5. AT ALL TIMES, THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND–CAUSED EROSION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN FUGITIVE DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE CONTRACTOR SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.

6. THE CONTRACTOR SHALL PROVIDE ADDITIONAL DUST ABATEMENT AND EROSION CONTROL MEASURES DEEMED NECESSARY BY CITY.

GRADING AND EROSION CONTROL NOTES (CONTINUED):

7. TEMPORARY FENCES SHALL BE INSTALLED ALONG ALL BOUNDARIES OF THE CONSTRUCTION LIMITS WHICH ARE ADJACENT TO EXISTING IMPROVEMENTS TO PREVENT GRADING ON PROPERTY NOT OWNED BY THE CONTRACTOR. IN ADDITION, THE CITY MAY REQUIRE ADDITIONAL TEMPORARY FENCES IF FIELD CONDITIONS SO MERIT THEM.

8. ALL EROSION PROTECTION SHALL BE PLACED AND APPROVED BY THE CITY PRIOR TO COMMENCEMENT OF SITE GRADING OPERATIONS.

9. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A CERTIFIED SURVEY OF THE DETENTION GRADING, OUTLET STRUCTURE, AND OVERLOT GRADING. THE SURVEY SHALL BE PERFORMED BY A LICENSED SURVEYOR IN COLORADO.

10. CONTRACTOR SHALL IMPLEMENT THE EROSION CONTROL PLAN AS SHOWN AND MODIFY BMP'S AS NECESSARY TO PREVENT EROSION AND SEDIMENT TRANSPORT AS DIRECTED BY THE ENGINEER.

STORM DRAINAGE NOTES:

AWARDED SET
FOR CONSTRUCTION

1. SEE DETAIL SHEET FOR STANDARD BEDDING MATERIAL.

2. MANHOLES, BARRELS, AND CONES SHALL BE CONSTRUCTED OF PRECAST CONCRETE WHERE POSSIBLE.

3. PRECAST MANHOLES AND RISERS SHALL BE MANUFACTURED IN CONFORMITY WITH ASTM DESIGNATION C–478. ALL CONES SHALL BE ECCENTRIC.

4. THE FLEXIBLE PLASTIC JOINT SEALING COMPOUND SHALL BE "RAMNEK" RUBBERNECK OR APPROVED EQUAL.

5. NO BACKFILL MATERIAL SHALL BE PLACED ABOVE THE BEDDING OF THE PIPE UNTIL A CITY REPRESENTATIVE HAS AUTHORIZED BACKFILLING. IT SHALL BE THE DUTY OF THE CONTRACTOR TO NOTIFY THE CITY 48 HOURS IN ADVANCE OF PROPOSED BACKFILL OPERATIONS SO A REPRESENTATIVE MAY INSPECT THE PIPE AND THE BEDDING PRIOR TO BACKFILLING.

6. THE MANUFACTURER/SUPPLIER SHALL DETERMINE PIPE CLASS BASED ON THE MAXIMUM COVER AND BEDDING SHOWN ON THE PLANS AND SOIL TYPE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE PIPE LOAD CALCULATIONS STAMPED BY A REGISTERED ENGINEER. IN NO CASE SHALL THE PIPE CLASS BE LESS THAN CLASS III.

VERIFICATION SURVEY

TOP OF NUT ELEVATIONS FOR ALL WATER LINE VALVES, PROPOSED GROUND ELEVATIONS AT THOSE VALVE LOCATIONS, SANITARY SEWER MANHOLES INVERT AND RIM ELEVATIONS, AND SEWER MAIN SLOPES SHALL BE PROVIDED TO THE CITY OF GREELEY ENGINEERING DEVELOPMENT REVIEW DIVISION FOR ACCEPTANCE PRIOR TO PLACEMENT OF CURB/GUTTER/SIDEWALK AND/OR PAVING CONSTRUCTION.

HAZARDOUS MATERIAL

LEAD–CONTAINING PAINT MAY BE PRESENT ON PAINTED COMPONENTS THAT WILL BE REMOVED FOR THIS PROJECT (E.G., GUARD RAILS, SIGNAL POLES). THE SELECTED CONTRACTOR SHALL BE NOTIFIED OF THE POTENTIAL PRESENCE OF LEAD–BASED PAINT. THE CONTRACTOR SHALL AVOID SANDING, CUTTING, BURNING OR OTHERWISE CAUSING THE RELEASE OF LEAD FROM PAINT ON PAINTED COMPONENTS. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION 1926.62 SHALL BE CONSULTED FOR WORKER PROTECTION PRIOR TO REMOVAL OF PAINTED COMPONENTS. IF PAINTED METAL COMPONENTS ARE TO BE REMOVED AND RECYCLED, THEY MUST BE RECYCLED IN ACCORDANCE WITH CDOT SPECIFICATION 250.04. THE RECYCLING FACILITY SHALL BE NOTIFIED OF THE PRESENCE OF LEAD.

SIGNAGE AND PAVEMENT MARKINGS

CONTRACTOR SHALL COORDINATE WITH THE CITY TRAFFIC DEPARTMENT PRIOR TO MODIFYING ANY SIGNING AND STRIPING. FINAL SIGNING AND STRIPING WILL BE COMPLETED BY CONTRACTOR AND THE CONTRACTOR WILL PROVIDE THE TRAFFIC CONTROL.

65TH AVE TRAFFIC CONTROL AND PHASING PLAN:

1. ALL METHODS OF HANDLING TRAFFIC (MHT'S) FOR THE PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, SUBMITTING AND OBTAINING APPROVAL FROM THE CITY AND CDOT OF ALL MHT'S FOR THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND LABOR REQUIRED TO IMPLEMENT THE MHT'S.

3. 65TH AVENUE TRAFFIC MAY BE SHIFTED WITHIN THE LIMITS OF THE PAVEMENT AS NECESSARY FOR CONSTRUCTION WITH ADEQUATE TRAFFIC CONTROL DEVICES.

4. SPEED REDUCTIONS ON 65TH AVENUE WILL BE ALLOWED.

5. THE CITY WILL WORK WITH THE CONTRACTOR TO SCHEDULE UNIFORMED TRAFFIC CONTROL AS NEEDED FOR THE PROJECT. THE CITY WILL PAY FOR UNIFORMED TRAFFIC CONTROL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY'S TRAFFIC DEPARTMENT [illegible] HOURS PRIOR TO NEEDING UNIFORMED TRAFFIC CONTROL.

6. GENERAL PHASING AND TRAFFIC IS AS FOLLOWS:

- THE CONTRACTOR SHALL ALLOW TWO WAY TRAFFIC FROM US HWY 34 BYPASS TO 29TH STREET THROUGHOUT THE DURATION OF THE PROJECT.
- ALL WORK ON 65TH AVE FROM US HWY 34 TO 29TH STREET INCLUDING THE TRAFFIC SIGNAL AT 29TH STREET MUST BE DONE DURING PHASE 1A AND COMPLETED BY NOVEMBER 30, 2016.
- FOR THE FIRST 90 DAYS OF THE PROJECT THE CONTRACTOR SHALL ALLOW ONE SOUTH BOUND LANE OPEN FROM 29TH STREET TO 37TH STREET WITH APPROPRIATE DETOURS.
- FROM 91 DAYS TO 150 DAYS THE CONTRACTOR SHALL ALLOW ONE LANE OF TRAFFIC IN EACH DIRECTION.
- ON DAY 151 ALL LANES SHALL BE AVAILABLE TO TRAFFIC.

COLORADO REGISTERED PROFESSIONAL ENGINEER
MICHAEL PAUL OBERLANDER
34288
10-12-16

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Designer: M. OBERLANDER			
Detailer: S. WEIER			
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LEGEND

EXISTING TELEPHONE LINE	PROPOSED TELEPHONE LINE
EXISTING OVERHEAD TELEPHONE LINE	PROPOSED OVERHEAD TELEPHONE LINE
EXISTING FIBER OPTIC LINE	PROPOSED FIBER OPTIC LINE
EXISTING CABLE TV	PROPOSED CABLE TV
EXISTING ELECTRIC LINE	PROPOSED ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE	PROPOSED OVERHEAD ELECTRIC LINE
EXISTING GAS	PROPOSED GAS
EXISTING OVERHEAD UTILITY	PROPOSED OVERHEAD UTILITY
EXISTING SANITARY SEWER MAIN	
EXISTING MANHOLE	PROPOSED SANITARY SEWER & MANHOLE
EXISTING WATER MAIN	
EXISTING WATER VALVE	PROPOSED WATER LINE & VALVE
EXISTING FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING STORM SEWER	PROPOSED STORM SEWER & MANHOLE
EXISTING STORM SEWER INLET	PROPOSED STORM INLET
EXISTING FLOWLINE, CURB & GUTTER	PROPOSED FLOWLINE, CURB & GUTTER
EXISTING CONCRETE	PROPOSED CONCRETE
EXISTING MINOR CONTOUR	PROPOSED MINOR CONTOUR
EXISTING MAJOR CONTOUR	PROPOSED MAJOR CONTOUR
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING STREET LIGHT	PROPOSED STREET LIGHT
EXISTING GUY WIRE	
EXISTING FENCE	PROPOSED FENCE
EXISTING TRAFFIC SIGNAL	PROPOSED TRAFFIC SIGNAL
EXISTING CONIFEROUS TREE	WETLANDS
EXISTING DECIDUOUS TREE	OPEN WATER

COLORADO REGISTERED
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LAND ACQUISITION ABBREVIATION LIST

ROW	PERMANENT RIGHT OF WAY EASEMENT
PE	PERMANENT EASEMENT (UTILITY, DRAINAGE AND SLOPE)
PE & TRAIL	PERMANENT EASEMENT (UTILITY, DRAINAGE, SLOPE, AND TRAIL)
TE	TEMPORARY EASEMENT

ABBREVIATION LIST

ABC	AGGREGATE BASE COURSE
AD	ALGEBRAIC DIFFERENCE
AE	ACCESS EASEMENT
ARV	AIR RELEASE VALVE
ASSY	ASSEMBLY
ASPH	ASPHALT
AVE	AVENUE
BOV	BLOW OFF VALVE
BOW	BOTTOM OF WALL
C&G	CURB AND GUTTER
CL	CENTERLINE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
DE	DRAINAGE EASEMENT
DR	DRIVE
ELE	ELECTRIC
EL	ELEVATION
ES	EMERGENCY SPILLWAY
ESMT	EASEMENT
EX	EXISTING
FES	FLARED END SECTION
FL	FLOWLINE
FO	FIBER OPTIC
G	GAS
GB	GRADE BREAK
GV	GATE VALVE
HP	HIGH POINT
HGL	HYDRAULIC GRADE LINE
HMA	HOT MIX ASPHALT
FH	FIRE HYDRANT
IE	IRRIGATION EASEMENT
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MH	MANHOLE
PE	PERMANENT EASEMENT
PED	PEDESTRIAN
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	POINT OF CURB RETURN
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
ROW	RIGHT-OF-WAY
RT	RIGHT
SE	SLOPE EASEMENT
SS	SANITARY SEWER
SSE	SANITARY SEWER EASEMENT
STA	STATION
STM	STORM
SDMH	STORM DRAIN MANHOLE
SW	SIDEWALK
TELE	TELEPHONE
TB	THRUST BLOCK
TE	TEMPORARY EASEMENT
TOF	TOP OF FOUNDATION
TOW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
WE	WATER EASEMENT
W	WATER

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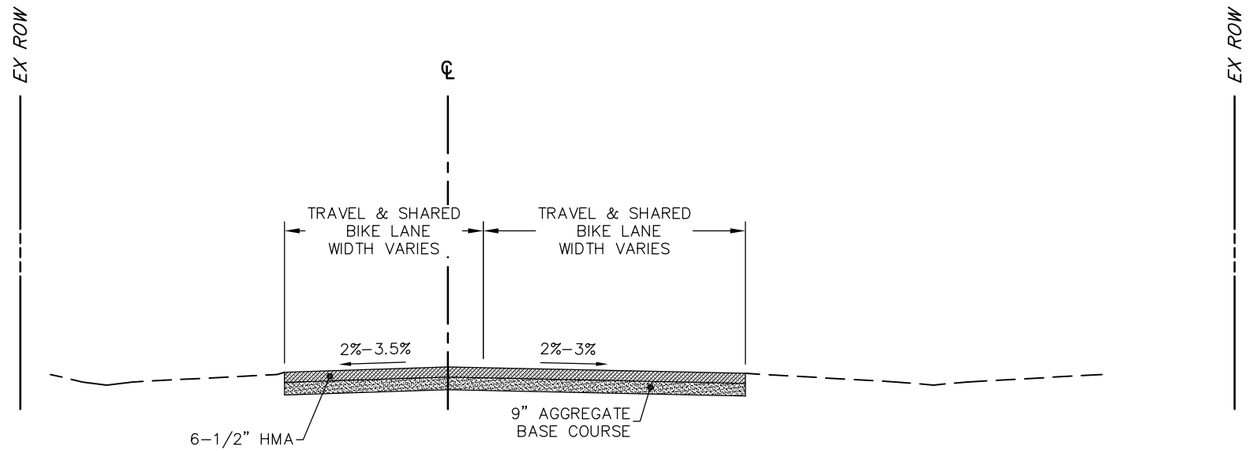
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Detailer:	S. WEIER		
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65TH AVENUE TYPICAL SECTION

@ APPROX. STA 17+43 TO 18+83

NTS

NOTE:

1. EARTHWORK PER GEOTECHNICAL REPORT BY EARTH ENGINEERING CONSULTANTS, INC. DATED MAY 11, 2012.

2. PAVEMENT SECTION PER REVISED TABLE IV BY EARTH ENGINEERING CONSULTANTS, INC. DATED APRIL 6, 2016.

PAVEMENT SECTION:
6–½" HMA (GRADE S) (75) (PG 64–28) (1–2 1/2" LIFT & 2–2" LIFTS)
9" ABC CLASS 6

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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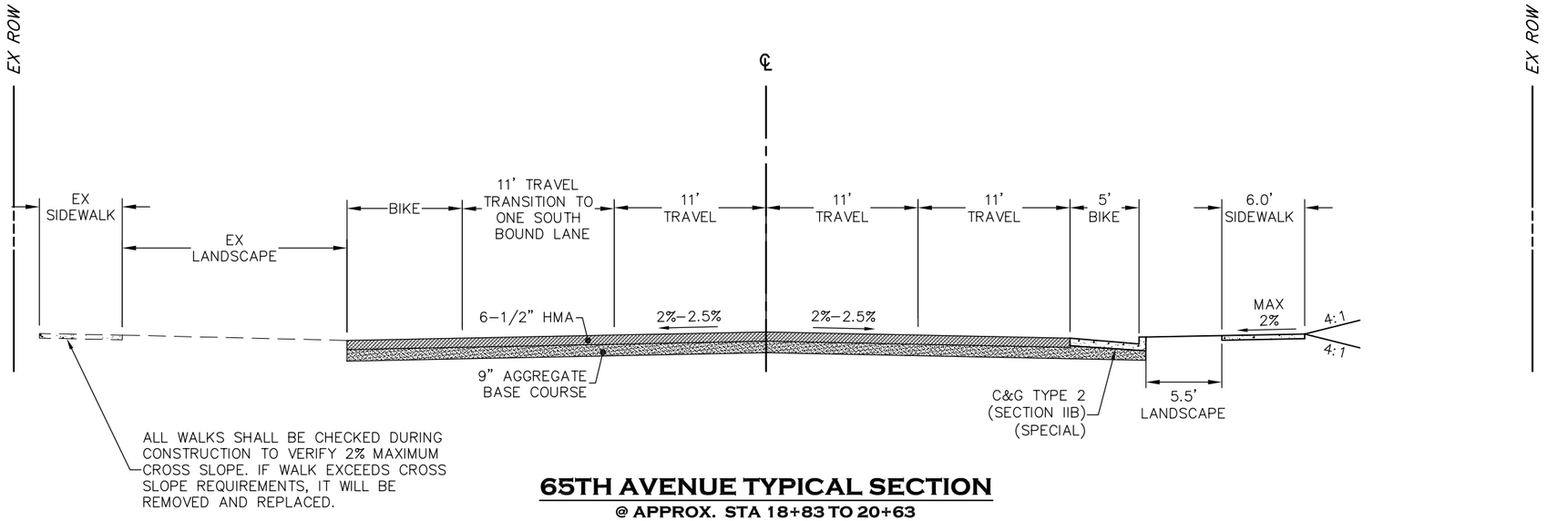
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City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

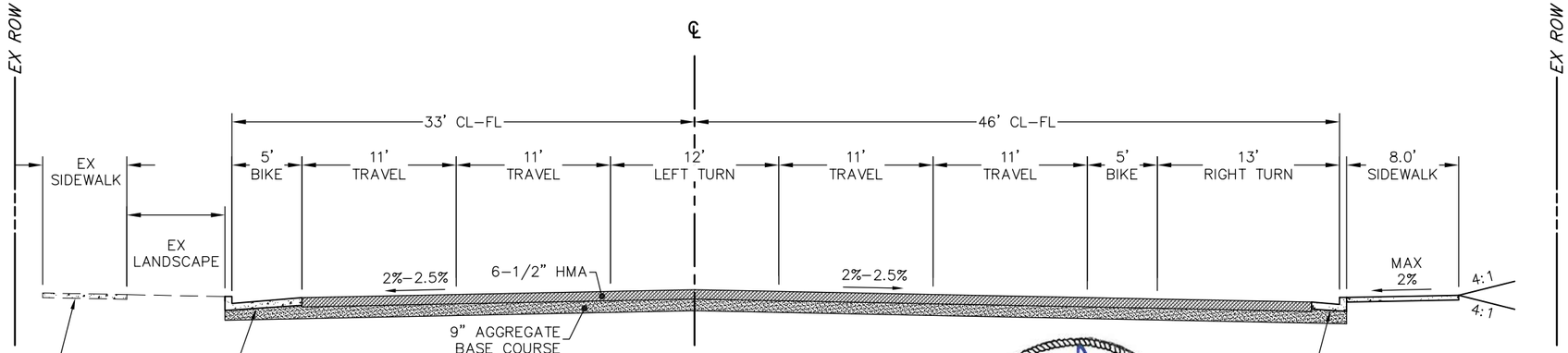
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10601 West 10th Street
Greeley, CO 80634
Phone: 970–350–2126
FAX: 970–350–2198
Region 4 LHN

As Constructed	TYPICAL SECTIONS	Project No./Code
No Revisions:		STU M570–046
Revised:	Designer: M. OBERLANDER	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 6
	Sheet Subset: Subset Sheet::	



65TH AVENUE TYPICAL SECTION

@ APPROX. STA 18+83 TO 20+63
NTS



65TH AVENUE TYPICAL SECTION

@ APPROX. STA 20+63 TO 24+00
NTS

NOTE:

1. EARTHWORK PER GEOTECHNICAL REPORT BY EARTH ENGINEERING CONSULTANTS, INC. DATED MAY 11, 2012.

2. PAVEMENT SECTION PER REVISED TABLE IV BY EARTH ENGINEERING CONSULTANTS, INC. DATED APRIL 6, 2016.

PAVEMENT SECTION:
6-½" HMA (GRADE S) (75) (PG 64-28) (1-2 1/2" LIFT & 2-2" LIFTS)
9" ABC CLASS 6

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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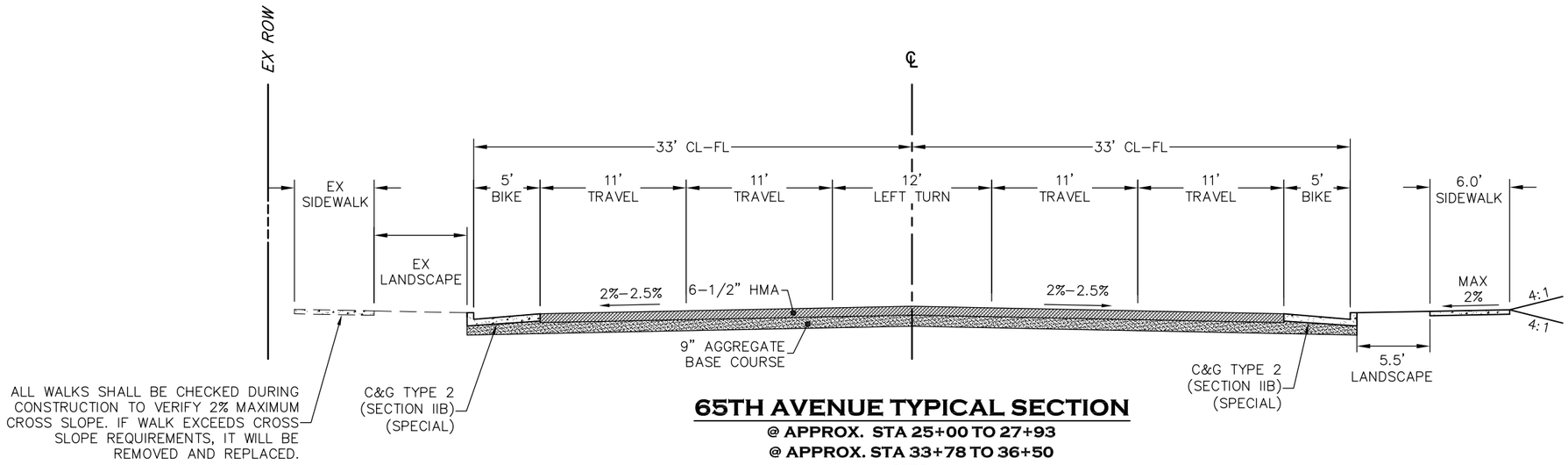
INTERWEST CONSULTING GROUP

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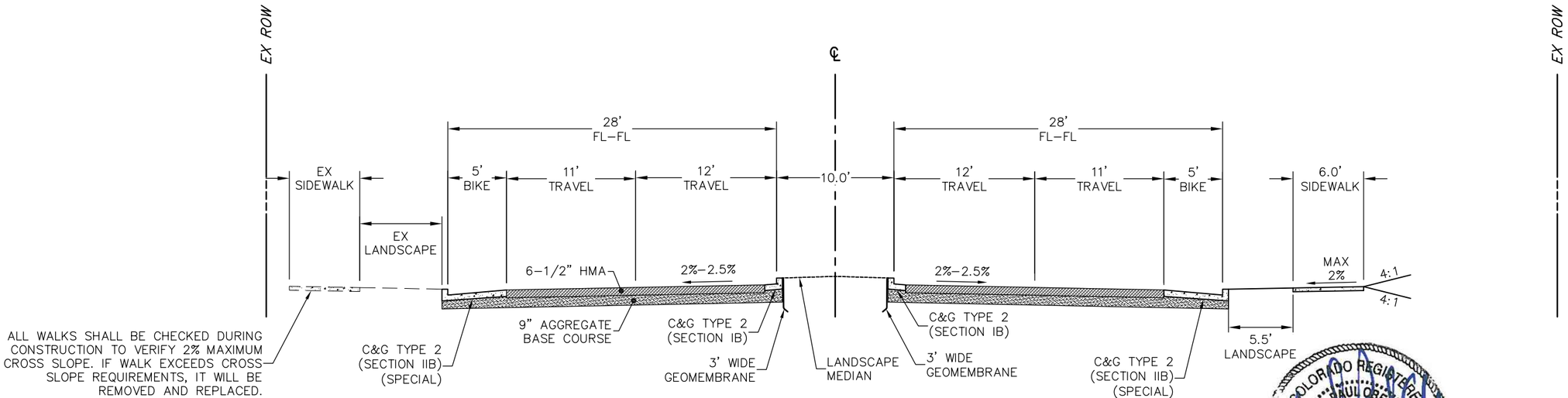
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Revised:	Designer: M. OBERLANDER	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 7
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65TH AVENUE TYPICAL SECTION

@ APPROX. STA 25+00 TO 27+93
@ APPROX. STA 33+78 TO 36+50
NTS



65TH AVENUE TYPICAL SECTION

@ APPROX. STA 27+93 TO 33+78
NTS

NOTE:

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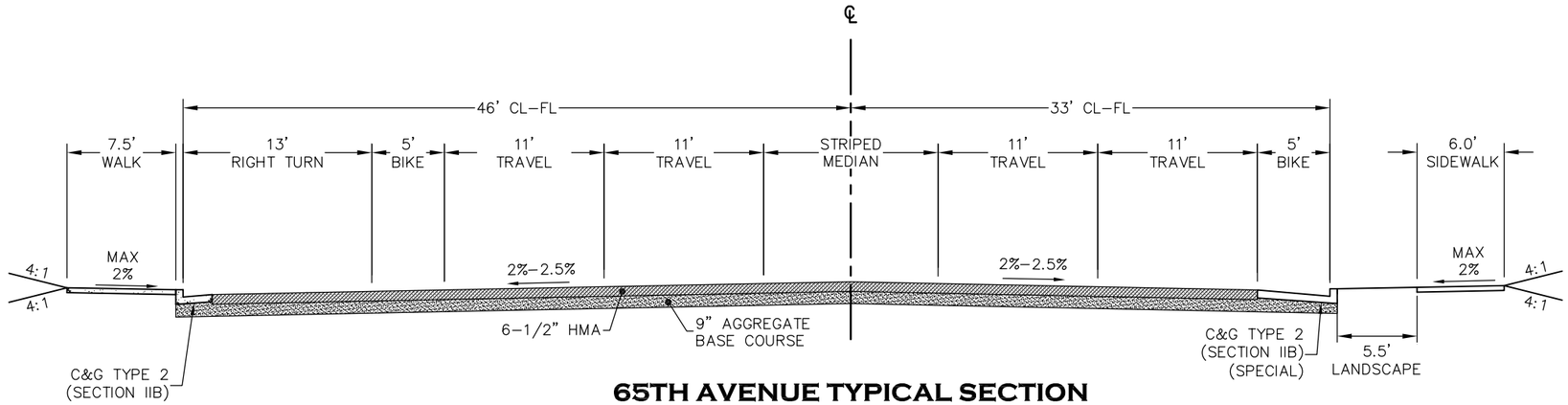
COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

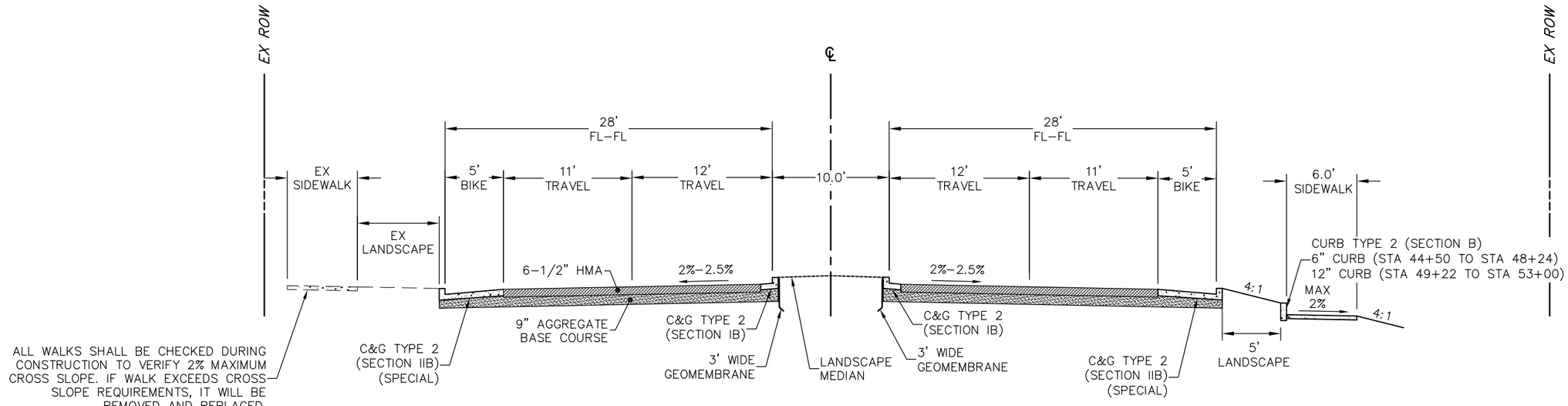
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65TH AVENUE TYPICAL SECTION

@ APPROX. STA 37+25 TO 43+22

NTS



65TH AVENUE TYPICAL SECTION

@ APPROX. STA 43+22 TO 48+34

NTS

NOTE:

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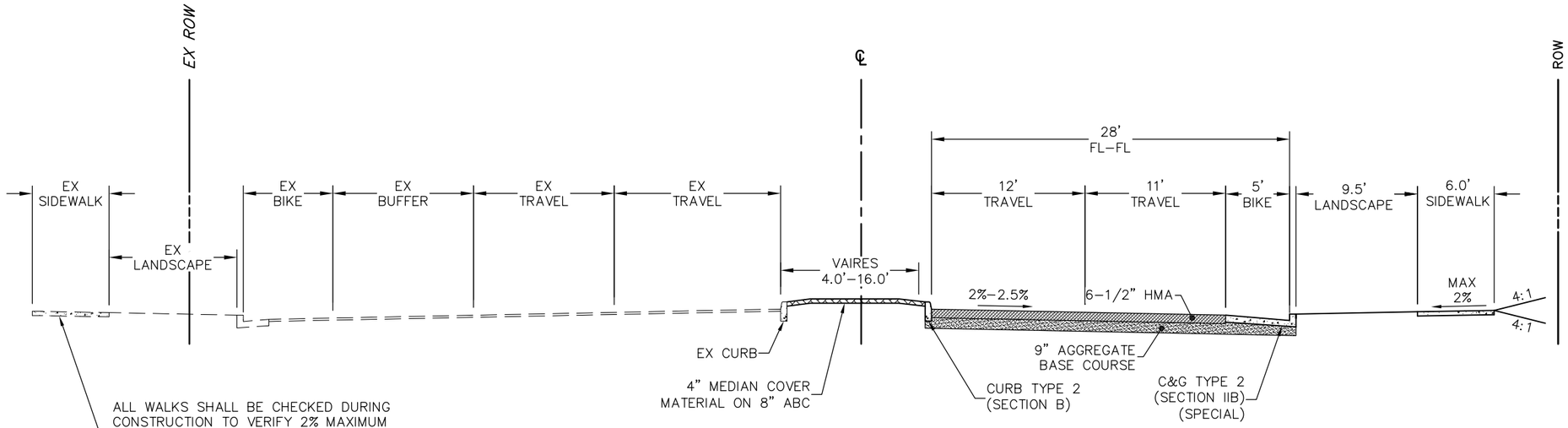
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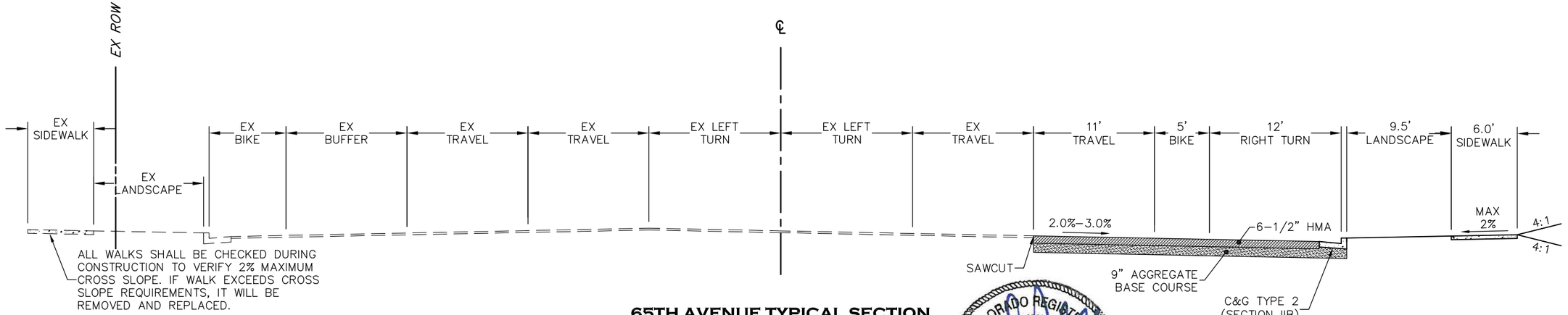
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65TH AVENUE TYPICAL SECTION

@ APPROX. STA 54+72 TO 58+83

NTS



65TH AVENUE TYPICAL SECTION

@ APPROX. STA 59+14 TO 60+62

NTS

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COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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TYPICAL SECTIONS

Designer: M. OBERLANDER			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570–046
20148
SHEET NUMBER 10

SUMMARY OF APPROXIMATE QUANTITIES

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS	
			PLAN	AS CONST.
201-00000	Clearing and Grubbing	LS	1	
202	Removal of Asphalt Walk	SY	958	
202	Removal of Gravel Walk/Drive	SY	1039	
202	Removal of Concrete Pan	SY	24	
202-00010	Removal of Tree	EA	31	
202-00027	Removal of Riprap	SY	69	
202-00031	Removal of Fire Hydrant	EA	1	
202-00035	Removal of Pipe	LF	482	
202-00037	Removal of End Section	EA	5	
202-00090	Removal of Delineator	EA	12	
202-00190	Removal of Concrete Median Cover Material	SY	200	
202-00200	Removal of Sidewalk	SY	1074	
202-00203	Removal of Curb and Gutter	LF	995	
202-00220	Removal of Asphalt Mat	SY	21052	
202-00250	Removal of Pavement Marking	SF	1091	
202-00700	Removal of Light Standard	EA	2	
202-00810	Removal of Ground Sign	EA	26	
202-01000	Removal of Fence	LF	366	
203-00060	Embankment Material (Complete In Place)	CY	9826	
203-00100	Muck Excavation	CY	600	
203-01596	Potholing	LS	1	
207-00205	Topsoil	CY	4576	
207-00205b	Topsoil (Special)	CY	1078	
208-00002	Erosion Log Type 1 (12 Inch)	LF	5800	
208-00035	Aggregate Bag	LF	300	
208-00045	Concrete Washout Structure	EA	2	
208-00051	Storm Drain Inlet Protection (Type 1)	LF	150	
208-00052	Storm Drain Inlet Protection (Type 2)	LF	50	
208-00070	Vehicle Tracking Pad	EA	2	
208-00205	Erosion Control Supervisor	HR	270	
210	Adjust Water Valve (Shut-off) & (Air)	EA	3	
210-01130	Reset Guardrail Type 3	LF	10	
210-04010	Adjust Manhole	EA	9	
210-04050	Adjust Valve Box	EA	25	
212-00006a	Seeding (Native)	AC	1	
212-00006b	Seeding (Pond)	AC	0	
212-00032	Soil Conditioning	AC	3	
212-00050	Sod (Bluegrass)	SF	24570	
212-00055	Sod (Buffalograss)	SF	44741	
213	Mulching (Special) (Medium Bark Mulch)	CF	1995	
213-00011	Mulching (Hydraulic)	AC	1	
214-00220a	Deciduous Tree (2 Inch Caliper)	EA	31	
214-00220b	Ornamental Tree (2 Inch Caliper)	EA	68	
214-00220c	Ornamental Tree (6 Clump)	EA	17	
214-00350	Deciduous Shrubs (5 Gallon Container)	EA	44	
214-00650	Evergreen Shrubs (5 Gallon Container)	EA	20	
216-00201	Soil Retention Blanket (Straw-Coconut) (Biodegradable Class 1)	SY	6100	
240-00000	Wildlife Biologist	HR	115	
240-00010	Removal of Nests	HR	20	
240-00020	Netting	SY	100	
240-00100	Prairie Dog Management	LS	1	
304-06000	Aggregate Base Course (Class 6)	TON	15112	
403-33751	Hot Mix Asphalt (Grade S) (75) (PG 64-28)	TON	8987	
403-34741	Hot Mix Asphalt (Grade SX) (75) (PG 64-22)	TON	877	
412-00800	Concrete Pavement (8 Inch)	SY	306	
412-00805	Concrete Pavement (8 Inch) (Fast Track)	SY	306	
420-00000	Geomembrane (10 mil plastic visquine)	SY	736	
503-00018	Drilled Caisson (18 Inch)	LF	5	
503-00036	Drilled Caisson (36 Inch)	LF	57	
506-00005	Riprap	SY	90	
601	Spillway with Concrete Ribbon	LS	1	
603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	2918	
603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	645	
603-05018	18 Inch Reinforced Concrete End Section	EA	4	
603-05024	24 Inch Reinforced Concrete End Section	EA	1	
604-00305	Inlet Type C (5 Foot)	EA	1	
604-19110	Inlet Type R L5 (10 Foot)	EA	6	
604	4' Diameter Manhole (5 Foot)	EA	1	
604	4' Diameter Manhole (10 Foot)	EA	7	
604	5' Diameter Manhole (10 Foot)	EA	4	

SUMMARY OF APPROXIMATE QUANTITIES

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS	
			PLAN	AS CONST.
604	Water Quality Structure	EA	1	
607	Fence Concrete Railing	LF	287	
608-00000	Concrete Sidewalk (4 Inch)	SY	4076	
608-00010	Concrete Curb Ramp	SY	107	
609-20010	Curb Type 2 (Section B) (Height Varies)	LF	1198	
609-21010	Curb and Gutter Type 2 (Section I-B)	LF	2209	
609-21020	Curb and Gutter Type 2 (Section II-B)	LF	1321	
609-21023	Curb and Gutter Type 2 (Section II-B) (Special)	LF	6113	
609-21023a	Curb and Gutter Type 2 (Section II-B) (Special) (Fast Track)	LF	505	
609-31020	Curb and Gutter Type 2 (Section II-B) (Fast Track)	LF	435	
610-00020	Median Cover Material (Patterned Concrete)	SF	3991	
610-00020a	Median Cover Material (Patterned Concrete) (Fast Track)	SF	3991	
613-00200	2 Inch Electrical Conduit	LF	4200	
613-00206	2 Inch Electrical Conduit (Bored)	LF	375	
613-00300	3 Inch Electrical Conduit	LF	2100	
613-00306	3 Inch Electrical Conduit (Bored)	LF	525	
613-07199	Pull Box (Install Only)	EA	22	
613-10000	Wiring	LS	1	
613-13000	Luminaire (LED)	EA	3	
614	Uninterrupted Power Supply (Install Only)	EA	1	
614-00011	Sign Panel (Class I)	SF	298	
614-72888	Microwave Vehicle Radar Detector (Install Only)	EA	3	
614-75219	Pedestrian Signal Face (Countdown) (Install Only)	EA	4	
614-75336	Traffic Signal Face (12-12-12) (Install Only)	EA	10	
614-75560	Traffic Signal Face (12-12-12-12) (Install Only)	EA	2	
614-75855	Traffic Signal Controller Cabinet (Install Only)	EA	1	
614-75860	Pedestrian Push Button (Install Only)	EA	4	
614-75866	Fire Preemption Unit and Timer (Install Only)	EA	2	
614-81301	Traffic Signal Light Pole Steel (Install Only)	EA	3	
614-84455	Traffic Signal Pedestal Pole (Install Only)	EA	1	
619	Fire Hydrant Assembly	EA	1	
619	Water Meter and Pit	EA	1	
619-00002	Water Service (1 Inch)	EA	1	
619-00005	Water Line (6 Inch)	LS	1	
620-00020	Sanitary Facilty	EA	1	
623	Irrigation Controller	EA	1	
623	Existing Irrigation Controller Upgrade	EA	1	
623	Power to Irrigation Controller	EA	1	
623	Spray Sprinkler Irrigation	SF	51401	
623	Tree Drip	Zones	6	
623	Drip Irrigation	SF	6600	
623	Existing Irrigation Systems Renovations	LS	1	
623	6" Class 200 PVC Sleeve	LF	700	
623	2" Class 200 PVC Sleeve	LF	1030	
623	2 1/2" Class 200 PVC Mainline (W 34th St. Rd. to US HWY 34)	LF	6200	
623	2" Class 200 PVC Mainline (W 34th St. Rd. to US HWY 34)	LF	975	
623	#14 AWG Control Wire	LF	44415	
623	#12 AWG Common Wire	LF	7175	
625-00000	Construction Surveying	LS	1	
626-00000	Mobilization	LS	1	
627-00001	Pavement Marking Paint	GAL	68	
627-30405	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF	1130	
627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)	SF	1632	
630-00000	Flagging	HR	1800	
630-00007	Traffic Control Inspection	DAY	130	
630-00012	Traffic Control Management	DAY	140	
630-80335	Barricade (Type 3 M-A) (Temporary)	EA	25	
630-80341	Construction Traffic Sign (Panel Size A)	EA	80	
630-80342	Construction Traffic Sign (Panel Size B)	EA	120	
630-80350	Vertical Panel	EA	200	
630-80355	Portable Message Sign Panel	EA	4	
630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EA	4	
630-80360	Drum Channelizing Device	EA	400	
630-80380	Traffic Cones	EA	200	
700-70010	F/A Minor Contract Revisions	F/A	1	
700-70016	F/A Fuel Cost Adjustment	F/A	1	
700-70021	F/A On-The-Job Trainee	F/A	1	
700-70170	F/A Pothole Utilities	F/A	1	
700-70380	F/A Erosion Control	F/A	1	

COLORADO REGISTERED
DARREL PAUL OBERMUELLER
34288
10-12-16
PROFESSIONAL ENGINEER

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SUMMARY OF APPROXIMATE QUANTITIES

Designer: J. LOFTON
Detailer: S. WEIER
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER 11

SUMMARY OF EARTHWORK QUANTITIES

EMBANKMENT MATERIAL (COMPLETE IN PLACE)(NET)		**CUBIC YARDS**
FOR ROADWAY (FROM CROSS SECTIONS):		7,538
ADDITIONAL EMBANKMENT FOR TOPSOIL STRIPPING REPLACEMENT		2,288
TOTAL		9,826
MUCK EXCAVATION		**CUBIC YARDS**
ALLOWANCE FOR UNFORESEEN MUCK		600
TOTAL		600

FOR INFORMATION ONLY

UNCLASSIFIED EXCAVATION		**CUBIC YARDS**
FOR ROADWAY (FROM CROSS SECTIONS)		14,169
REDUCED FOR EXISTING ASPHALT FULL DEPTH REMOVAL		-3,504
REDUCED FOR TOPSOIL STRIPPINGS IN CUT AREAS		-2,288
TOTAL		8,377
COMPACTION (AASHTO T-99)		**CUBIC YARDS**
TOTAL EMBANKMENT (NET)		9,826
BASES OF CUTS AND FILLS		10,790
TOTAL		20,616

EARTHWORK QUATITIES BALANCE

UNCLASSIFIED EXCAVATION		**CUBIC YARDS**
TOTAL UNCLASSIFIED EXCAVATION		8,377
TOTAL FROM CONTRACTOR'S SOURCE		3,414
TOTAL		11,791
EMBANKMENT (NET)		
TOTAL		9,826
EMBANKMENT (NET) TIMES COMPACTION FACTOR	**1.20**	
TOTAL		11,791

TOPSOIL QUANTITIES

TOPSOIL	4,576
TOPSOIL (SPECIAL)	1,078

FOR INFORMATION ONLY

TOPSOIL QUANTITIES BALANCE (INFO ONLY)	
STRIPPED TOPSOIL (6")	4,576
STOCKPILE AND REPLACE 6 INCHES DEEP IN SEEDED AREAS	1,016
EXCESS TOPSOIL TO BECOME PROPERTY OF CONTRACTOR	**3,560**

COLORADO REGISTERED
MICHAEL PAUL OBERMEYER
34288
10-12-16
PROFESSIONAL ENGINEER

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Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 12

TABULATION OF REMOVALS

LOCATION / STATION TO STATION	REMOVAL OF ASPHALT WALK	REMOVAL OF GRAVEL WALK/DRIVE	REMOVAL OF CONCRETE PAN	REMOVAL OF TREE	REMOVAL OF RIPRAP	REMOVAL OF FIRE HYDRANT	REMOVAL OF PIPE	REMOVAL OF END SECTION	REMOVAL OF DELINEATOR	REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	REMOVAL OF SIDEWALK	REMOVAL OF CURB & GUTTER	REMOVAL OF ASPHALT MAT	REMOVAL OF PAVEMENT MARKING	REMOVAL OF LIGHT STANDARD	REMOVAL OF GROUND SIGN	REMOVAL OF FENCE
ITEM #	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
UNIT	SY	SY	SY	EA	SY	EA	LF	EA	EA	SY	SY	LF	SY	SF	EA	EA	LF
65th Avenue Stations																	
15+00 TO 18+50							72	1					361			2	
18+50 TO 23+50		249					212				140	98	2536			5	
23+50 TO 28+50		277					84	2			90	9	3192			2	
28+50 TO 34+00		356			12		84						2617			1	
34+00 TO 39+50		157	24		57	1	30	2			230	21	2947			4	199
39+50 TO 44+50	434								4		334		2399			1	136
44+50 TO 49+50	524								5		182	176	2989			4	
49+50 TO 54+50				12							98	276	2527	191		5	
54+50 TO 59+50				19						200		415	938	640	1	1	
59+50 TO 63+00									3				546	260	1	1	31
PROJECT TOTALS	**958**	**1039**	**24**	**31**	**69**	**1**	**482**	**5**	**12**	**200**	**1074**	**995**	**21052**	**1091**	**2**	**26**	**366**

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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Index of Revisions

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Region 4 LHN

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TABULATION OF REMOVALS			
Designer: J. LOFTON			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 13

TABULATION OF ADJUSTMENT AND RESET

LOCATION STATION TO STATION	ADJUST WATER VALVE (SHUT-OFF) & (AIR)	RESET GUARDRAIL TYPE 3	ADJUST MANHOLE	ADJUST VALVE BOX
ITEM #	210	210	210	210
UNIT	EA	LF	EA	EA
65th Avenue Stations				
15+00 TO 18+50		10	1	
18+50 TO 23+50			3	
23+50 TO 28+50	1		1	12
28+50 TO 34+00			2	4
34+00 TO 39+50				1
39+50 TO 44+50				1
44+50 TO 49+50				4
49+50 TO 54+50			1	1
54+50 TO 59+50				
59+50 TO 63+00	2		1	2
PROJECT TOTALS	**3**	**10**	**9**	**25**

TABULATION OF WATER

LOCATION STATION TO STATION	FIRE HYDRANT ASSEMBLY	WATER METER AND PIT	WATER SERVICE (1 INCH)	WATERLINE (6 INCH)
ITEM #	619	619	619	619
UNIT	EA	EA	EA	LS
65th Avenue Stations				
15+00 TO 18+50				
18+50 TO 23+50				
23+50 TO 28+50				
28+50 TO 34+00				
34+00 TO 39+50	1	1	1	1
39+50 TO 44+50				
44+50 TO 49+50				
49+50 TO 54+50				
54+50 TO 59+50				
59+50 TO 63+00				
PROJECT TOTALS	**1**	**1**	**1**	**1**

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As Constructed	TABULATION OF ADJUSTMENT, RESET & WATER			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 14
	Sheet Subset:	Subset Sheet::		

TABULATION OF CURB & GUTTER & MISC CONCRETE

LOCATION / STATION TO STATION	CONCRETE SIDEWALK (4 INCH)	CONCRETE CURB RAMP	CURB TYPE 2 (SECTION B) (HEIGHT VARIES)	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)	CURB AND GUTTER TYPE 2 (SECTION II-B) (SPECIAL)
ITEM #	608	608	609	609	609	609
UNIT	SY	SY	LF	LF	LF	LF
65TH AVENUE						
15+00.00 TO 18+50.00						
18+50.00 TO 23+50.00	504	13			256	511
23+50.00 TO 28+50.00	445	26		118	134	900
28+50.00 TO 34+00.00	417	13		1061	47	1098
34+00.00 TO 39+50.00	649	13			299	825
39+50.00 TO 44+50.00	662	13	25	258	100	906
44+50.00 TO 49+50.00	510	13	403	772		795
49+50.00 TO 54+50.00	423	10	350		50	717
54+50.00 TO 59+50.00	334		420		140	361
59+50.00 TO 63+00.00	132	6			295	
PROJECT TOTALS	4076	107	1198	2209	1321	6113

TABULATION OF SURFACING QUANTITIES

LOCATION / STATION TO STATION	AGGREGATE BASE COURSE (CLASS 6)	HOT MIX ASPHALT (GRADING S) (75) (PG 64-28)	CONCRETE PAVEMENT (8INCH)	MEDIAN COVER MATERIAL
ITEM #	304	403	412	610
UNIT	TON	TON	SY	SF
65TH AVENUE				
15+00.00 TO 18+50.00	150	108		
18+50.00 TO 23+50.00	1,846	1,188		
23+50.00 TO 28+50.00	2,110	1,282		
28+50.00 TO 34+00.00	1,899	1,048		
34+00.00 TO 39+50.00	2,319	1,450		
39+50.00 TO 44+50.00	1,880	1,115		
44+50.00 TO 49+50.00	1,863	1,079		
49+50.00 TO 54+50.00	1,751	1,070		
54+50.00 TO 59+50.00	1,116	530		3991
59+50.00 TO 63+00.00	178	117	306	
PROJECT TOTALS	15,112	8,987	306	3991

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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TABULATION OF C&G & SURFACING QUANTITIES

Designer: J. LOFTON
Detailer: S. WEIER
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Project No./Code
STU M570-046
20148
SHEET NUMBER 15

TABULATION OF STORMWATER

LOCATION / STATION TO STATION	SPILLWAY WITH CONCRETE RIBBON	18 INCH RCP[1] (CIP)	24 INCH RCP[1] (CIP)	18 INCH REINFORCED CONCRETE END SECTION	24 INCH REINFORCED CONCRETE END SECTION	INLET TYPE C (5 FOOT)	INLET TYPE R L5 (10 FOOT)	4' DIA. MANHOLE (5 FOOT)	4' DIA. MANHOLE (10 FOOT)	5' DIA. MANHOLE (10 FOOT)	WATER QUALITY STRUCTURE
ITEM #	601	603	603	603	603	604	604	604	604	604	604
UNIT	LS	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA
65th Avenue Stations											
15+00 TO 18+50		13	136	1	1					1	
18+50 TO 23+50		150	388	1			1			2	
23+50 TO 28+50		523					1		1		
28+50 TO 34+00		573					1		2		
34+00 TO 39+50		550	121			1			1	1	
39+50 TO 44+50		523					1		1		
44+50 TO 49+50		493					1	1	2		
49+50 TO 54+50	1	39		1							1
54+50 TO 59+50		54		1			1				
59+50 TO 63+00											
PROJECT TOTALS	**1**	**2918**	**645**	**4**	**1**	**1**	**6**	**1**	**7**	**4**	**1**

[1] PIPE LENGTHS ARE FROM CENTER OF MH TO CENTER OF MH OR TO INNER EDGE OF INLETS AND WATER QUALITY STRUCTURE. PIPE LENGTHS INCLUDE FES.

COLORADO REGISTERED
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TABULATION OF STORMWATER

Designer:	J. LOFTON		
Detailer:	S. WEIER		
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STU M570-046
20148
SHEET NUMBER 16

TABULATION OF PAVEMENT MARKINGS

LOCATION	627 PAVEMENT MARKING PAINT												627 Preformed Thermoplastic Pavement Marking (Word-Symbol)												627 Preformed Thermoplastic Pavement Marking (Xwalk - Stop Line)			
STATION TO STATION	4" WHITE DASHED (A)		4" WHITE DOTTED (B)		4" SOLID WHITE (C)		4" SOLID DOUBLE YELLOW (D)		8" SOLID WHITE (E)		8" WHITE DASHED (F)		LEFT/RIGHT ARROW (15.5 SF)		STRAIGHT & LEFT ARROW (27.5 SF)		LANE-REDUCTION ARROW (58 SF)		ONLY (22.5 SF)		BIKE LANE SYMBOL (12 SF)		BIKE LANE ARROW (12 SF)		24" STOP BAR		12" x 9' STRIPE (9 SF)	
UNIT	LF	SF	LF	SF	LF	SF	LF	SF	LF	SF	LF	SF	EACH	SF	EACH	SF	EACH	SF	EACH	SF	EACH	SF	EACH	SF	LF	SF	No. of Stripes	SF
65TH AVENUE																												
15+00.00 TO 18+50.00							107	71																				
18+50.00 TO 23+50.00	363	40	146	16	586	195	815	543	297	198	146	32	2	31.0			2	116.0	1	22.5	1	12	1	12	13	26	7	63
23+50.00 TO 28+50.00	800	89			800	266	440	293	380	253			6	93.0	2	55.0			1	22.5	2	24	2	24	48	96	20	180
28+50.00 TO 34+00.00	1100	122			1035	345	28	19					1	15.5							2	24	2	24	24	48	10	90
34+00.00 TO 39+50.00	860	95	45	5	935	311	630	420	317	211	45	10	6	93.0					2	45.0	2	24	2	24	28	56	16	144
39+50.00 TO 44+50.00	1000	111	100	11	840	280	385	256	100	67	100	22	2	31.0					1	22.5	1	12	1	12	16	32	8	72
44+50.00 TO 49+50.00	1000	111			842	280	42	28	42	28			1	15.5							2	24	2	24	34	68	16	144
49+50.00 TO 54+50.00	1000	111			870	290	370	246	280	187			3	46.5					2	45.0	1	12	1	12	91	182	35	315
54+50.00 TO 59+50.00	744	83	438	49	832	277			662	442	260	58	5	77.5							3	36	3	36	40	80		
59+50.00 TO 63+00.00	216	24	124	14	507	169			635	424	47	10	1	15.5					1	22.5	1	12	1	12			4	36
PROJECT TOTALS		**786**		**95**		**2413**		**1876**		**1810**		**133**		**418.5**		**55.0**		**116.0**		**180.0**		**180.0**		**180.0**		**588**		**1044**
TOTAL PAINT IN SQUARE FEET	**7113**																											
TOTAL PAINT IN GALLONS	**68**																											
TOTAL THERMOPLASTIC (WORD-SYMBOL) (SF)	**1130**																											
TOTAL THERMOPLASTIC (XWALK-STOP LINE) (SF)	**1632**																											

AWARDED SET
FOR CONSTRUCTION

TABULATION OF SIGNS

LOCATION	614 SIGN PANEL (CLASS I)																									
	ROADWAY SIGNS																		TRAFFIC SIGNAL SIGNS							
STATION TO STATION	R1-1 & ST. SIGN "STOP" (6.25 SF & 2 SF)		R3-2 W / R6-1R "NO LT TURN W/ ONE WAY" (4 SF & 3 SF)		R3-7 "RT LANE MUST TURN RT" (9 SF)		R3-17 "BIKE LANE" (3 SF)		R3-17 & R3-17b "BIKE LANE & ENDS" (3 SF + 2 SF)		R4-4 "BEGIN RT TURN YIELD TO BIKES" (7.5 SF)		R4-7 W / OM-3L "KEEP RT W/ OBJECT MARKER" (5 SF & 3 SF)		W4-2R RT LANE ENDS SYMBOL (9 SF)		W9-1 "RT LANE ENDS" (9 SF)		W11-2A & W16-7P PED SYMBOL & PED ARROW (6.25 SF + 2 SF)		R3-5 "LEFT TURN" (7.5 SF)		R3-5R "RIGHT TURN" (7.5 SF)		STREET NAME (9 SF)	
UNIT	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF
65TH AVENUE																										
15+00.00 TO 18+50.00																										
18+50.00 TO 23+50.00	1	8.25			1	9.00			1	5.00	1	7.50			1	9.00	1	9.00								
23+50.00 TO 28+50.00	2	16.50					2	6.00					1	8.00												
28+50.00 TO 34+00.00	1	8.25	1	7.00			2	6.00					1	8.00												
34+00.00 TO 39+50.00	1	8.25			1	9.00	1	3.00					1	8.00												
39+50.00 TO 44+50.00	1	8.25					1	3.00			1	7.50	1	8.00												
44+50.00 TO 49+50.00	1	8.25	1	7.00			2	6.00					1	8.00												
49+50.00 TO 54+50.00							1	3.00															2	15.00	2	15.00	3	27.00
54+50.00 TO 59+50.00					1	9.00					1	7.50			1	9.00	1	9.00								
59+50.00 TO 63+00.00							1	3.00											1	8.25						
PROJECT TOTALS		**57.75**		**14.00**		**27.00**		**30.00**		**5.00**		**22.50**		**40.00**		**18.00**		**18.00**		**8.25**		**15.00**		**15.00**		**27.00**
TOTAL SF OF SIGN PANEL	**297.50**																									

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10-12-16
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INTERWEST CONSULTING GROUP

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TABULATION OF SIGNING & STRIPING

Designer:	J. LOFTON		
Detailer:	S. WEIER		
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Project No./Code
STU M570-046
20148
SHEET NUMBER 17

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

	Format *
■ Horizontal Control	Plan Sheet
■ Vertical Control	Plan Sheet
■ Roadway Alignment	Plan Sheet
□ Original Terrain Data	
■ Other: CAD files will be issued to successful bidder	

* Specify the information format, ie., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- ■ Landscaping
- ■ Signalization
- ■ Safety Improvement
- ■ Asphalt Overlay
- ■ Concrete Overlay
- □ Minor Widening
- ■ Major Reconstruction
- □ New Roadway Construction
- □ Bridge Replacement
- □ Bridge Widening
- □ New Bridge
- □ Other: _____

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- ___ ■ Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- ___ ■ Verification and Maintenance of Horizontal and Vertical Control
- ___ ■ Verify or Determine existing grades and alignments
- ___ ■ Verify or Determine existing topography
- ___ ■ Clearing and Grubbing Limits (Section 201)
- ___ ■ Removal Limits (Section 202)
- ___ ■ Reset Items (Section 210)
- ___ ■ Excavation and Embankment (Section 203)
  - ___ ■ Excavation
    - ___ ■ Unclassified
    - ___ □ Stripping
    - ___ ■ Muck
    - ___ □ Rock
    - ___ □ Borrow
    - ___ □ Other: _____
    - ___ □ Potholing
  - ___ ■ Embankment
  - ___ ■ Site Grading
  - ___ □ Erosion Control (Perm)
  - ___ □ Other: _____
  - ___ □ As Staked Earthwork Quantities (See General Notes)

	Slope Staking (Y/N)	Grid (Y/N)	Grade Stakes	Special Interval
Excavation	Y	–	Y	50
	–	–	–	–
	N	–	–	–
	–	–	–	–
	–	–	–	–
	–	–	–	–
Embankment	Y	–	Y	50
	–	Y	–	–
	–	–	–	–
	–	–	–	–

- ___ □ Landscaping
  - ___ □ Top Soil (Section 207)
  - ___ □ Seeding (Section 212)
  - ___ □ Mulching (Section 213)
  - ___ □ Planting (Section 214)
  - ___ □ Herbicide (Section 217)
  - ___ □ Other: _____
- ___ ■ Erosion Control (Section 208)
  - ___ □ Seeding (Temp)
  - ___ □ Silt Fence
  - ___ □ Erosion Bales
  - ___ ■ Erosion Logs
  - ___ ■ Riprap (Temp)
  - ___ □ Other: _____
- ___ ■ Roadway Bases
  - ___ ■ Untreated Subgrade
  - ___ □ Treated Subgrade
  - ___ ■ Aggregate Base Course (Section 304)
  - ___ □ Reconditioning
  - ___ □ PMBB – Plant Mix Bituminous Base
  - ___ □ Other: _____

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	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	–	Y	50	–
	–	–	–	–
	–	Y	50	–
	–	–	–	–
	–	–	–	–
	–	–	–	–

- ___ ■ Pavements
  - ___ ■ HMA – Hot Mix Asphalt (Section 403)
  - ___ ■ Concrete (Section 412)
  - ___ □ Heating & Scarifying Treatment
  - ___ □ Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
  - ___ □ Seal Coat or Chip Seal (Section 409)
  - ___ □ Other: _____
- ___ ■ Roadway Elements
  - ___ ■ Curb and Gutter (Section 609)
  - ___ ■ Drop inlets – alignment and grades (Section 604)
  - ___ □ Retaining Walls
  - ___ □ Guard Rail (Section 606)
  - ___ ■ Sidewalk (Section 608)
  - ___ □ Overlay Stationing
  - ___ □ Other: _____
- ___ □ Riprap (Perm) (Section 506)
- ___ □ Slope and Ditch Paving (Section 507)
- ___ ■ Minor Structures
  - ___ □ Structure Excavation limits (Section 206)
  - ___ □ Culverts (Section 603)
  - ___ □ Culverts w/ Headwalls and Wingwalls (Section 601)
  - ___ □ Concrete Box Culverts w/ Headwalls and Wingwalls
  - ___ ■ Pipes (Section 603)
    - ___ □ Sanitary Sewer
    - ___ ■ Storm Sewer
    - ___ ■ Water
    - ___ □ Irrigation
    - ___ □ Miscellaneous
  - ___ ■ Manholes (Section 604)
  - ___ ■ Inlets (Section 604)
  - ___ □ Other: _____
- ___ ■ Major Structures – Overhead Signs (Section 614), Concrete Box Culverts, Bridges – and all other structures assigned a structure number
  - ___ □ Structure Excavation limits (Section 206)
  - ___ □ Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
  - ___ □ Piling locations and cut off elevations (Section 502)
  - ___ ■ Caisson locations and elevations (Section 503)
  - ___ □ Footing locations, alignment, and elevations
  - ___ □ Abutment/Pier locations, alignment, and elevations
  - ___ □ Wingwall skew angles/offsets
  - ___ □ Structural concrete form locations
  - ___ □ Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
  - ___ □ Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
  - ___ □ Deck grades at Girder 10th or "n" th point locations and elevations
  - ___ □ Slope and Ditch Paving (Section 507)
  - ___ □ Other: _____
- ___ ■ Fencing (Section 607)
  - ___ □ Temporary
  - ___ ■ Permanent
  - ___ □ Sound Barrier
  - ___ □ Other: _____
- ___ □ Delineators (Section 612)
  - ___ □ Temporary
  - ___ □ Permanent
- ___ ■ Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
  - ___ ■ Signal pole locations and elevations
  - ___ ■ Light pole locations and elevations
  - ___ □ Sign locations
  - ___ □ Field verify sign post locations, elevations, and lengths before fabrication.
  - ___ □ Other: _____

	Grid (Y/N)	Special Interval	Special Offset
Pavements	Y	50	–
	Y	50	–
	–	–	–
	–	–	–
	–	–	–
	–	–	–

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	25	25	–

	Left Interval	Center Interval	Right Interval
Stationing	–	–	–

- ___ ■ Pavement Marking (Section 627)
  - ___ □ Striping (Temp)
  - ___ ■ Striping (Perm)
  - ___ ■ Symbols
  - ___ □ Other: _____
- ___ □ Temporary Lighting and Construction Traffic Control Devices (Section 630)
  - ___ □ Signal pole locations and elevations (Temp)
  - ___ □ Light pole locations and elevations (Temp)
  - ___ □ Sign Locations (Temp)
  - ___ □ Other: _____
- ___ ■ Easements (Temp Staking by P.L.S. Only)
- ___ ■ Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- ___ □ Monumentation (Section 629)
  - ___ □ Control
  - ___ □ Right of Way
  - ___ □ Land corners, Aliquot corners
  - ___ □ Easements
  - ___ □ Reference the specified existing monuments: ** _____
  - ___ □ Replace the specified existing monuments: ** _____
  - ___ □ Locate monuments. It is estimated ___ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

1. Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
2. Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
3. The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 7 days prior to the Presurvey Conference – Construction Survey.
4. Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
5. The Contractor shall furnish an As Staked earthwork quantity to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked earthwork data and a computer disk in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
6. Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
10. The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
    - ■ Horizontal Control (Primary & Secondary)
    - ■ Vertical Control (i.e. Benchmarks)
    - ■ Property Pin Ties
    - ■ Horizontal Alignment
    - ■ Grading
    - ■ Slope Staking
    - ■ Minor Structures
    - □ Major Structures
    - □ One fieldbook for each work category shown on this sheet
    - ■ Other Fieldbook(s): Use 1 book, separate into divisions

COLORADO REGISTERED MICHAEL PAUL OSBORNE 34288 10-12-16 PROFESSIONAL ENGINEER

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TABULATION OF SURVEY

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 18

SURVEY INFORMATION FROM ROW PLANS PROJECT NO. STU M570-046
BY KING SURVEYORS, INC.

SC1286
SOUTHWEST CORNER
SEC. 21, T.5N., R.66W.
FOUND #6 REBAR WITH
3 1/4" ALUMINUM CAP
STAMPED LS 22098, 1998
IN MONUMENT BOX

300 0 300 600
SCALE: 1" = 600'

SC1133
NORTHWEST CORNER
SEC. 21, T.5N., R.66W.
FOUND ILLEGIBLE 3 1/4" BRASS CAP
IN CONCRETE

NW1/4
SECTION 28
T. 5 N., R. 66 W.

2630.58'
N89°31'05"E

37TH STREET

W1/2
SECTION 21
T. 5 N., R. 66 W.

2680.82'
N89°31'38"E

HIGHWAY 34 BYPASS

SC1034
CENTER QUARTER CORNER
SEC. 28, T.5N., R.66W.
FOUND #6 REBAR WITH
3 1/4" ALUMINUM CAP
STAMPED LS 7242, 1999

SC1009
SOUTH QUARTER CORNER
SEC. 21, T.5N., R.66W.
FOUND #6 REBAR WITH
2 1/2" ALUMINUM CAP
STAMPED LS 27275, 2014
IN MONUMENT BOX

BASIS OF BEARINGS N00°47'55"W 5305.41'

N00°03'09"W 2640.26'

N00°47'55"W
2659.45'

65TH AVENUE

N00°47'55"W
2645.96'

SC1008
CENTER QUARTER CORNER
SEC. 21, T.5N., R.66W.
FOUND #6 REBAR WITH
3 1/4" ALUMINUM CAP
STAMPED LS 22098, 2006
IN MONUMENT BOX

SC1007
NORTH QUARTER CORNER
SEC. 21, T.5N., R.66W.
FOUND #6 REBAR IN MONUMENT BOX
PLACED 2 1/2" ALUMINUM CAP
STAMPED "LS 38106, 2015"
ON REBAR

NE1/4
SECTION 28
T. 5 N., R. 66 W.

E1/2
SECTION 21
T. 5 N., R. 66 W.

2630.87'
N89°08'54"E

2670.24'
N89°34'22"E

Basis of Bearings: The basis of bearings for project reference is the West line of the East Half (E1/2) of Section Twenty-one (21), Township five North (T.5N.), Range Sixty-six West (R.66W.) of the Sixth Principal Meridian (6th P.M.), County of Weld, State of Colorado, being monumentalized by a #6 rebar with a 2 ½" diameter aluminum cap stamped "LS 27275, 2014" in a monument box at the South end and by a #6 rebar with a 3 ¼" diameter aluminum cap stamped "LS 38106, 2015" in a monument box at the North end, bearing North 00°47'55" West, being a Grid Bearing of the Colorado State Plane Coordinate System, North Zone, North American Datum 1983, a distance of 5305.41 feet, with all other bearings contained herein relative thereto.

Lineal Unit Definition: The lineal dimensions as contained herein are based upon the "U.S. Survey Foot."

SC1078
SOUTHEAST CORNER
SEC. 21, T.5N., R.66W.
FOUND #6 REBAR WITH
2 1/2" ALUMINUM CAP
STAMPED LS 23501
IN MONUMENT BOX

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SC1136
NORTHEAST CORNER
SEC. 21, T.5N., R.66W.
FOUND 2 3/8" PIPE WITH
3 1/4" ALUMINUM CAP
STAMPED LS 10734, 1992
IN MONUMENT BOX

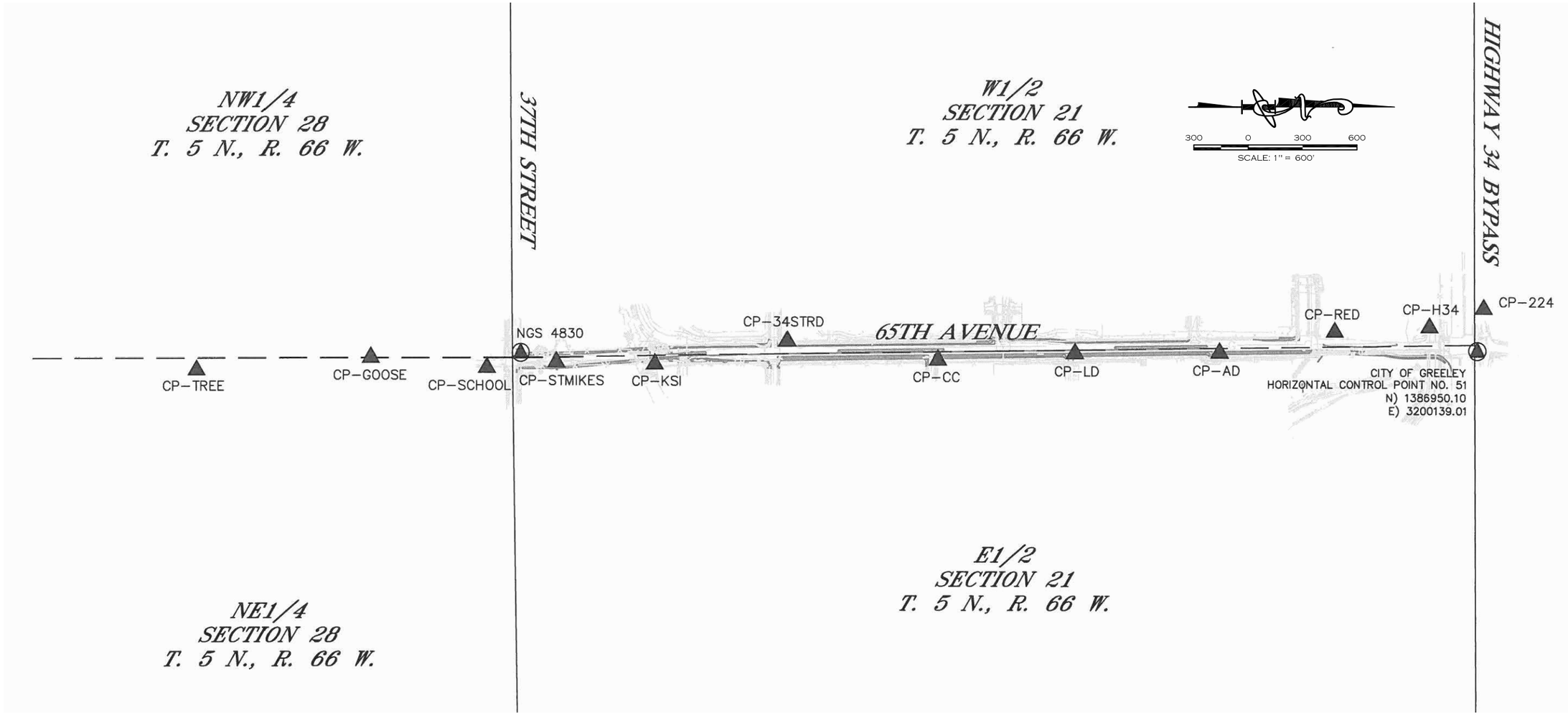
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As Constructed	SURVEY CONTROL PLAN			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 19



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PLANS PROJECT NO. STU M570-046
BY KING SURVEYORS, INC.

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Void:

SURVEY CONTROL PLAN

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 20

GEODETIC COORDINATE TABLE									
Point	Geodetic Coordinates NAD-83		Elip Height (ft)	Ortho Height(ft) NAVD88	Mapping Angle	Grid Scale Factor	NAD 83 Zone CO N 0501		Description
	Latitude (N)	Longitude (W)					SP Northing (ft)	SP Easting (ft)	
CP-224	40d23'32.82928"	104d47'07.21871"	4833.52	4892.6	0d27'42"	0.999729298	1386613.04	3199060.63	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-224
CP-34STRD	40d22'54.88411"	104d47'05.27061"	4770.46	4829.6	0d27'44"	0.999731868	1382774.59	3199242.32	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-34STRD
CP-AD	40d23'18.46773"	104d47'04.24617"	4820.81	4879.9	0d27'44"	0.999729734	1385161.66	3199302.33	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-AD
CP-CC	40d23'03.08895"	104d47'03.88582"	4782.43	4841.5	0d27'45"	0.999731389	1383605.70	3199342.77	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-CC
CP-GOOSE	40d22'32.22304"	104d47'04.36180"	4786.45	4845.6	0d27'44"	0.999730861	1380482.09	3199331.15	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-GOOSE
CP-H34	40d23'29.88918"	104d47'05.92873"	4839.30	4898.3	0d27'43"	0.999728987	1386316.34	3199162.83	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-H34
CP-KSI	40d22'47.67699"	104d47'03.72679"	4759.76	4818.9	0d27'45"	0.999732300	1382046.26	3199367.67	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-KSI
CP-LD	40d23'10.59665"	104d47'04.27546"	4803.59	4862.7	0d27'44"	0.999730465	1384365.16	3199306.49	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-LD
CP-RED	40d23'24.73685"	104d47'05.65270"	4829.89	4888.9	0d27'43"	0.999729375	1385795.15	3199188.39	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-RED
CP-SCHOOL	40d22'38.53442"	104d47'03.58190"	4778.32	4837.5	0d27'45"	0.999731315	1381121.22	3199386.34	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-SCHOOL
CP-STMIKES	40d22'42.33466"	104d47'03.92540"	4770.80	4830.1	0d27'44"	0.999731715	1381505.55	3199356.66	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-STMIKES
CP-TREE	40d22'22.73504"	104d47'03.58306"	4809.60	4868.8	0d27'45"	0.999729658	1379522.48	3199399.16	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-TREE
NGS 4830	40d22'40.38460"	104d47'04.61728"	4772.27	4831.4	0d27'44"	0.999731624	1381307.69	3199304.75	FOUND IRON POST & 3-1/4in BRASS CAP

PROJECT COORDINATE TABLE				
Point	Project Coordinates		Elevation (ft) NAVD88	Description
	Northing (ft)	Easting (ft)		
CP-224	1386980.08	3199907.42	4892.6	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-224
CP-34STRD	1383140.61	3200089.16	4829.6	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-34STRD
CP-AD	1385528.31	3200149.19	4879.9	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-AD
CP-CC	1383971.94	3200189.64	4841.5	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-CC
CP-GOOSE	1380847.50	3200178.01	4845.6	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-GOOSE
CP-H34	1386683.30	3200009.65	4898.3	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-H34
CP-KSI	1382412.09	3200214.54	4818.9	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-KSI
CP-LD	1384731.60	3200153.35	4862.7	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-LD
CP-RED	1386161.97	3200035.22	4888.9	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-RED
CP-SCHOOL	1381486.80	3200233.22	4837.5	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-SCHOOL
CP-STMIKES	1381871.23	3200203.53	4830.1	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-STMIKES
CP-TREE	1379887.64	3200246.04	4868.8	FOUND #4 REBAR & 2in ALUM CAP STAMPED CP-TREE
NGS 4830	1381673.32	3200151.61	4831.4	FOUND IRON POST & 3-1/4in BRASS CAP

SURVEY INFORMATION FROM ROW PLANS PROJECT NO. STU M570-046 BY KING SURVEYORS, INC.

FOUND ALIQUOT MONUMENT COORDINATE TABLE (PROJECT COORDINATES)				
Point No.	Northing (ft)	Easting (ft)	Description	Monument
SC1007	1386932.15	3200106.25	N1/4 Corner, Section 21, T.5N., R.66W.	Found #6 Rebar In Monument Box, Placed 2.5"Aluminum Cap, LS 38106, 2015
SC1008	1384286.45	3200143.12	C1/4 Corner, Section 21, T.5N., R.66W.	Found #6 Rebar, 3.25" Aluminum Cap, LS 22098, 2006, In Monument Box
SC1009	1381627.26	3200180.19	S1/4 Corner, Section 21, T.5N., R.66W.	Found #6 Rebar, 2.5" Aluminum Cap, LS 27275, 2014, In Monument Box
SC1034	1378987.00	3200182.61	C1/4 Corner, Section 28, T.5N., R.66W.	Found #6 Rebar, 3.25" Aluminum Cap, LS 7242, 1999
SC1078	1381666.36	3202810.76	SE Corner, Section 21, T.5N., R.66W.	Found #6 Rebar, 2.5" Aluminum Cap, LS 23501, In Monument Box
SC1133	1386910.03	3197425.52	NW Corner, Section 21, T.5N., R.66W.	Found 3.25" Illegible Brass Cap In Concrete
SC1136	1386952.07	3202776.41	NE Corner, Section 21, T.5N., R.66W.	Found 2-3/8" Pipe, 3.25" Aluminum Cap, LS 10734, 1992, In Monument Box
SC1286	1381605.14	3197549.70	SW Corner, Section 21, T.5N., R.66W.	Found #6 Rebar, 3.25" Aluminum Cap, LS 22098, 1998, In Monument Box

Basis of Bearings: The basis of bearings for project reference is the West line of the East Half (E1/2) of Section Twenty-one (21), Township Five North (T.5N.), Range Sixty-six West (R.66W.) of the Sixth Principal Meridian (6th P.M.), County of Weld, State of Colorado, being monumentalized by a #6 rebar with a 2 ½" diameter aluminum cap stamped "LS 27275, 2014" in a monument box at the South end and by a #6 rebar with a 2 ½" diameter aluminum cap stamped "LS 38106, 2015" in a monument box at the North end, bearing North 00°47'55" West, being a Grid Bearing of the Colorado State Plane Coordinate System, North Zone, North American Datum 1983, a distance of 5305.41 feet, with all other bearings contained herein relative thereto.

Lineal Unit Definition: The lineal dimensions as contained herein are based upon the "U.S. Survey Foot."

Basis of Elevations: Project elevations are based on NGS 4830, with an NAVD88 elevation of 4831.4 ft.

COORDINATE DATUM: Project coordinates are Colorado State Plane, North Zone, NAD 83 coordinates that have been scaled to ground using a combined factor of 1.00026470 about an origin of 0,0.

Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing * 1.00026470). Scale about an origin of 0,0.
Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting * 1.00026470). Scale about an origin of 0,0.

This survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

CHARN Reference Point: NGS DESIGNATION 4830
Latitude = 40°22'40.38358"(N) (NAD 83(2011))
Longitude = 104°47'04.61685"(W) (NAD 83(2011))
Ellipsoid Height = 1454.596 meters
State Plane Northing = 1,381,307.69 sft
State Plane Easting = 3,199,304.75 sft

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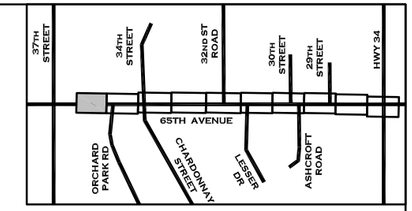
SURVEY CONTROL PLAN

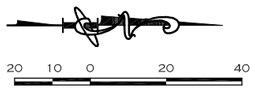
Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

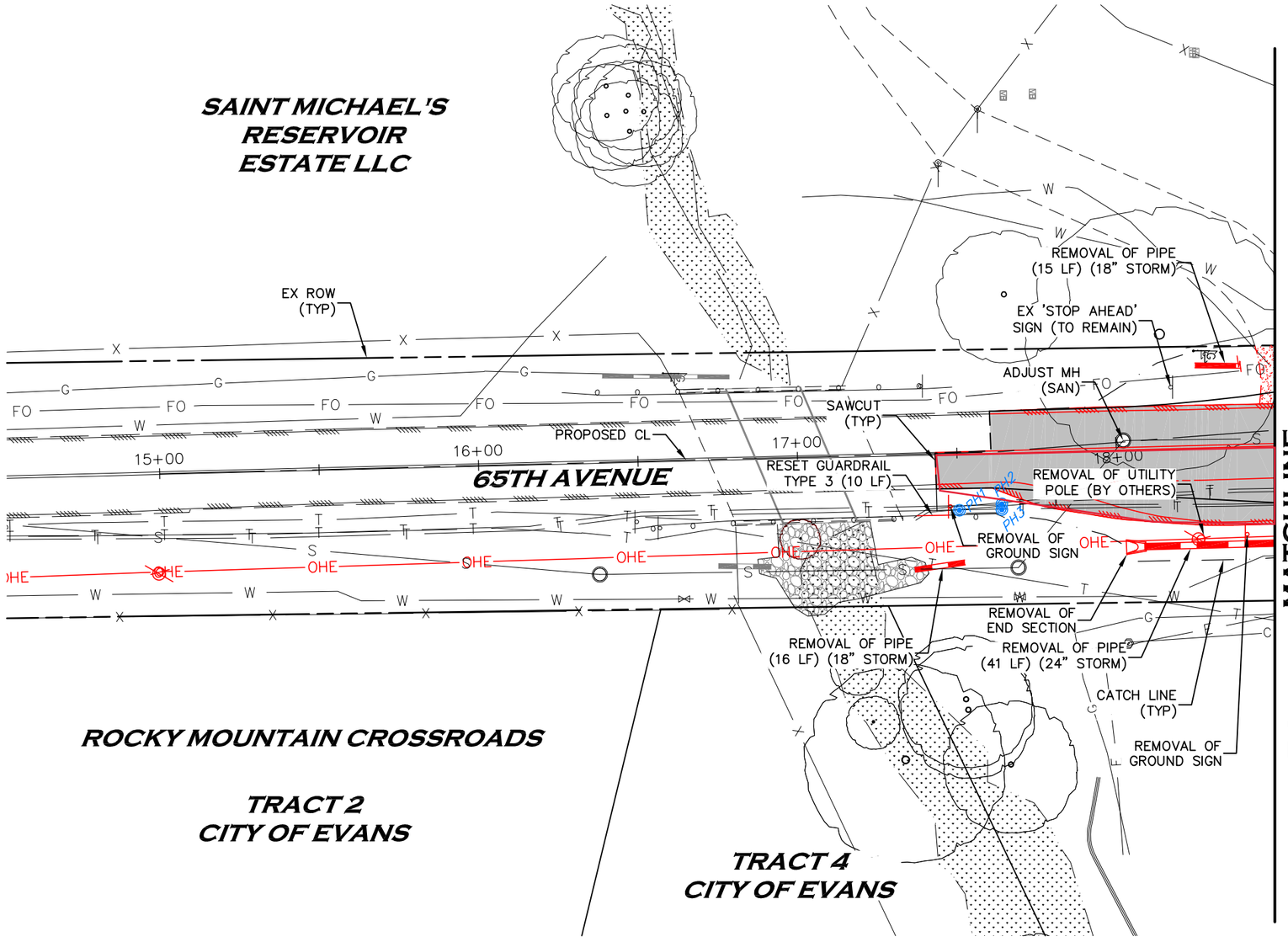
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STU M570-046
20148
SHEET NUMBER 21

NOTE:

1. ALL ITEMS SHOWN IN RED WILL BE REMOVED.
2. ITEMS SHOWN FOR REMOVAL ARE NOT SHOWN IN SUBSEQUENT PLANS.
3. SAWCUTTING IS INCIDENTAL TO THE WORK.
4. CONTRACTOR TO COORDINATE ALL REMOVALS AND RESETS BY OTHERS.
5. ALL TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN PLACE.







REMOVAL OF TREE

REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

EX POTHOLE LOCATION

COLORADO REGISTERED MICHAEL PAUL OBERMEYER 34288 PROFESSIONAL ENGINEER
10-12-16

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REMOVAL PLAN
STA 15+00 TO STA 18+50

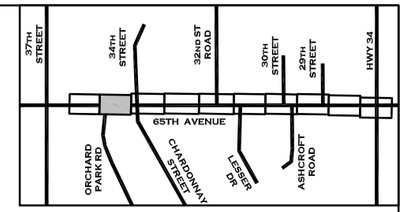
Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

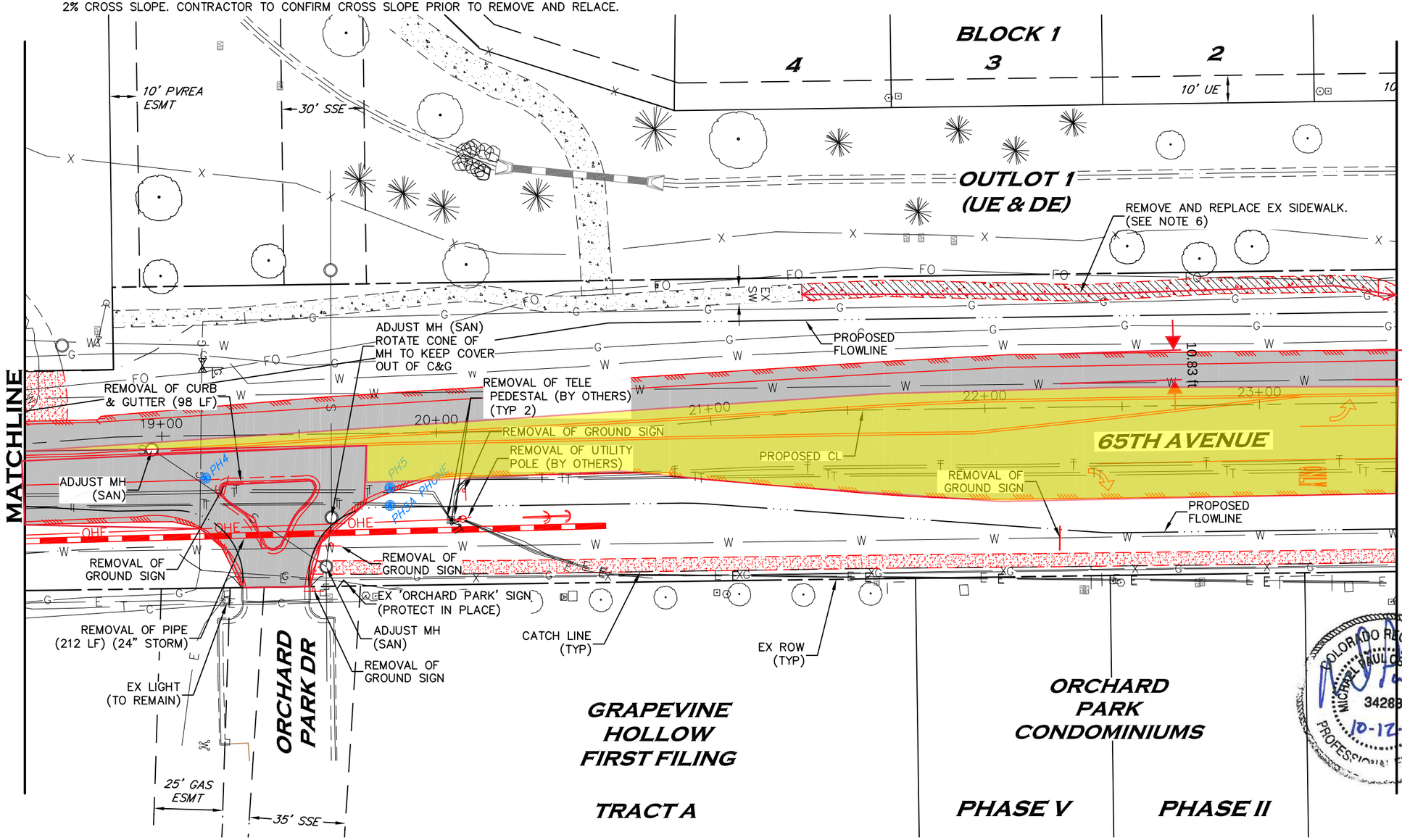
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STU M570-046
20148
SHEET NUMBER 22

NOTE:

1. ALL ITEMS SHOWN IN RED WILL BE REMOVED.
2. ITEMS SHOWN FOR REMOVAL ARE NOT SHOWN IN SUBSEQUENT PLANS.
3. SAWCUTTING IS INCIDENTAL TO THE WORK.
4. CONTRACTOR TO COORDINATE ALL REMOVALS AND RESETS BY OTHERS.
5. ALL TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN PLACE.
6. SIDEWALK REMOVAL AREAS INDICATED BY CROSS HATCH ARE WHERE THE EX SIDEWALK EXCEEDS 2% CROSS SLOPE. CONTRACTOR TO CONFIRM CROSS SLOPE PRIOR TO REMOVE AND RELACE.

20 10 0 20 40
SCALE: 1" = 40'





AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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REMOVAL PLAN
STA 18+50 TO STA 23+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 23

REMOVAL OF TREE

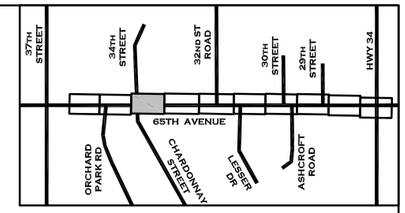
REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

EX POTHOLE LOCATION

NOTE:
1. ALL ITEMS SHOWN IN RED WILL BE REMOVED.
2. ITEMS SHOWN FOR REMOVAL ARE NOT SHOWN IN SUBSEQUENT PLANS.
3. SAWCUTTING IS INCIDENTAL TO THE WORK.
4. CONTRACTOR TO COORDINATE ALL REMOVALS AND RESETS BY OTHERS.
5. ALL TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN PLACE.



20 10 0 20 40
SCALE: 1" = 40'

BLOCK 1
1
10' UE
W. 34TH STREET ROAD
ADJUST VALVE BOX (TYP 3)
REMOVAL OF CURB & GUTTER (9 LF)
EX 'STOP' SIGN (TO REMAIN)
EX FIRE HYDRANT (PROTECT IN PLACE)
EX ROW (TYP)
PROPOSED FLOWLINE
ADJUST VALVE BOX
REMOVAL OF GROUND SIGN
PROPOSED CL
OUTLOT 2 (UE & DE)
8
ADJUST WATER VALVE (SHUT-OFF)
ADJUST VALVE BOX (TYP 3)
REMOVAL OF PIPE (84 LF) (18" STORM)
24+00
25+00
26+00
27+00
28+00
13.16
MATCHLINE
ADJUST VALVE BOX (TYP 2)
ADJUST MH (WATER)
ADJUST VALVE BOX (TYP 3)
65TH AVENUE
PROPOSED FLOWLINE
PROPOSED FLOWLINE
REMOVAL OF END SECTION
REMOVAL OF END SECTION
OUTLOT 2
5' UE
SAWCUT (TYP)
CATCH LINE (TYP)
REMOVAL OF GROUND SIGN
BLOCK 1
REMOVAL OF LIGHT POLE (BY OTHERS)
EX FIRE HYDRANT (PROTECT IN PLACE)
EX 'GRAPEVINE HOLLOW' SIGN (PROTECT IN PLACE)
EX ELE VAULT (PROTECT IN PLACE)
CHARDONNAY STREET
9B
9A
8B
8A
7B
6
GRAPEVINE HOLLOW FIRST FILING

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information	
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Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 DEMO.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions

City of Greeley
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CDOT
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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

REMOVAL PLAN
STA 23+50 TO STA 28+50

Designer: J. LOFTON
Detailer: S. WEIER
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER 24

REMOVAL OF TREE

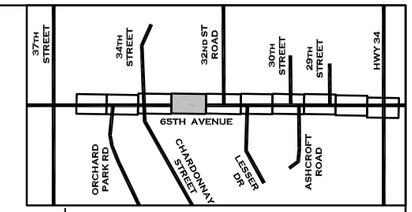
REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

EX POTHOLE LOCATION

20 10 0 20 40
SCALE: 1" = 40'



9 10 11 12 13 14 15 16 17

ST. MICHAEL'S SUBDIVISION

BLOCK 21

10' UE

OUTLOT 2
(UE & DE)

EX ROW (TYP)

ADJUST MH (WATER)

PROPOSED FLOWLINE

PROPOSED FLOWLINE

REMOVAL OF TELE PEDESTAL (BY OTHERS)

REMOVAL OF TELE PEDESTAL (BY OTHERS) (TYP 2)

29+00 30+00 31+00 32+00 33+00 34

PROPOSED CL

12.23

65TH AVENUE

PROPOSED FLOWLINE

REMOVAL OF RIPRAP (4 SY)

REMOVAL OF PIPE (84 LF) (18" STORM)

ADJUST VALVE BOX

REMOVAL OF RIPRAP (8 SY)

PH9 PH10 PH11

MATCHLINE

MATCHLINE

REMOVAL OF GROUND SIGN

5' UE

EX LIGHT (TO REMAIN)

OUTLOT 2

5' UE

CATCH LINE (TYP)

EX 'GRAPEVINE HOLLOW' SIGN (PROTECT IN PLACE)

ADJUST VALVE BOX (TYP 3)

SAWCUT (TYP)

ADJUST MH (WATER)

CONCORD STREET

EX 'GRAPEVINE HOLLOW' SIGN (PROTECT IN PLACE)

10' UE

10' UE

6 5 4B 4A 3A 3B 2B 2A 1

BLOCK 1

GRAPEVINE HOLLOW
FIRST FILING

NOTE:

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COLORADO REGISTERED
MICHAEL PAUL OLEXANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

REMOVAL PLAN
STA 28+50 TO STA 34+00

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 25

REMOVAL OF TREE

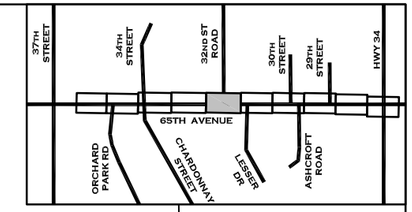
REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

EX POTHOLE LOCATION

20 10 0 20 40
SCALE: 1" = 40'



17 18 19 20

ST. MICHAEL'S SUBDIVISION

BLOCK 21

OUTLOT 2 (UE & DE)

10' UE

1 2 3

ST. MICHAEL'S SUBDIVISION

BLOCK 24

OUTLOT 8 (UE & DE)

10' UE

75' PUBLIC SERVICE CO ESMT

W. 32ND STREET ROAD

REMOVAL OF GROUND SIGN

SAWCUT (TYP)

EX LIGHT POLE (PROTECT IN PLACE)

REMOVAL OF CURB & GUTTER (9 LF)

REMOVAL OF GROUND SIGN

REMOVAL OF BOULDERS (2) (CLEAR & GRUB)

REMOVAL OF SHRUBS (CLEAR & GRUB)

PROPOSED FLOWLINE

REMOVAL OF CURB & GUTTER (12 LF)

REMOVAL OF FIRE HYDRANT

15.32 ft

REMOVAL OF IRR VALVE BOX (BY OTHERS)

REMOVAL OF END SECTION

REMOVAL OF RIPRAP (54 SY)

REMOVAL OF RIPRAP (3 SY)

REMOVAL OF CONC PAN (24 SY)

EXISTING ROW

REMOVAL OF FENCE (199 LF)

REMOVAL OF GROUND SIGN

PROPOSED FLOWLINE

REMOVAL OF PIPE (30 LF) (24" STORM)

REMOVAL OF GROUND SIGN

MATCHLINE

MATCHLINE

35+00 36+00 37+00 38+00 39+00

PROPOSED FLOWLINE

PROPOSED CL

ADJUST VALVE BOX

65TH AVENUE

CATCH LINE (TYP)

OUTLOT 1

5' UE

BLOCK 2

EX ROW (TYP)

1 2A 2B 3

3

5' UE

EXISTING ROW

20' UE

EX IRRIGATION LINE (APPROX. LOCATION) SEE NOTE 6

PUBLIC SERVICE CO OF COLORADO

BLOCK 1

27

NOTE:

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COLORADO REGISTERED MICHAEL PAUL OBERMINDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed	REMOVAL PLAN	Project No./Code
No Revisions:	STA 34+00 TO STA 39+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	
	Sheet Subset: / Subset Sheet::	SHEET NUMBER 26

REMOVAL OF TREE

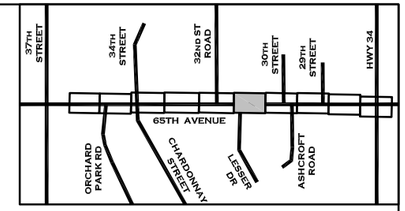
REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

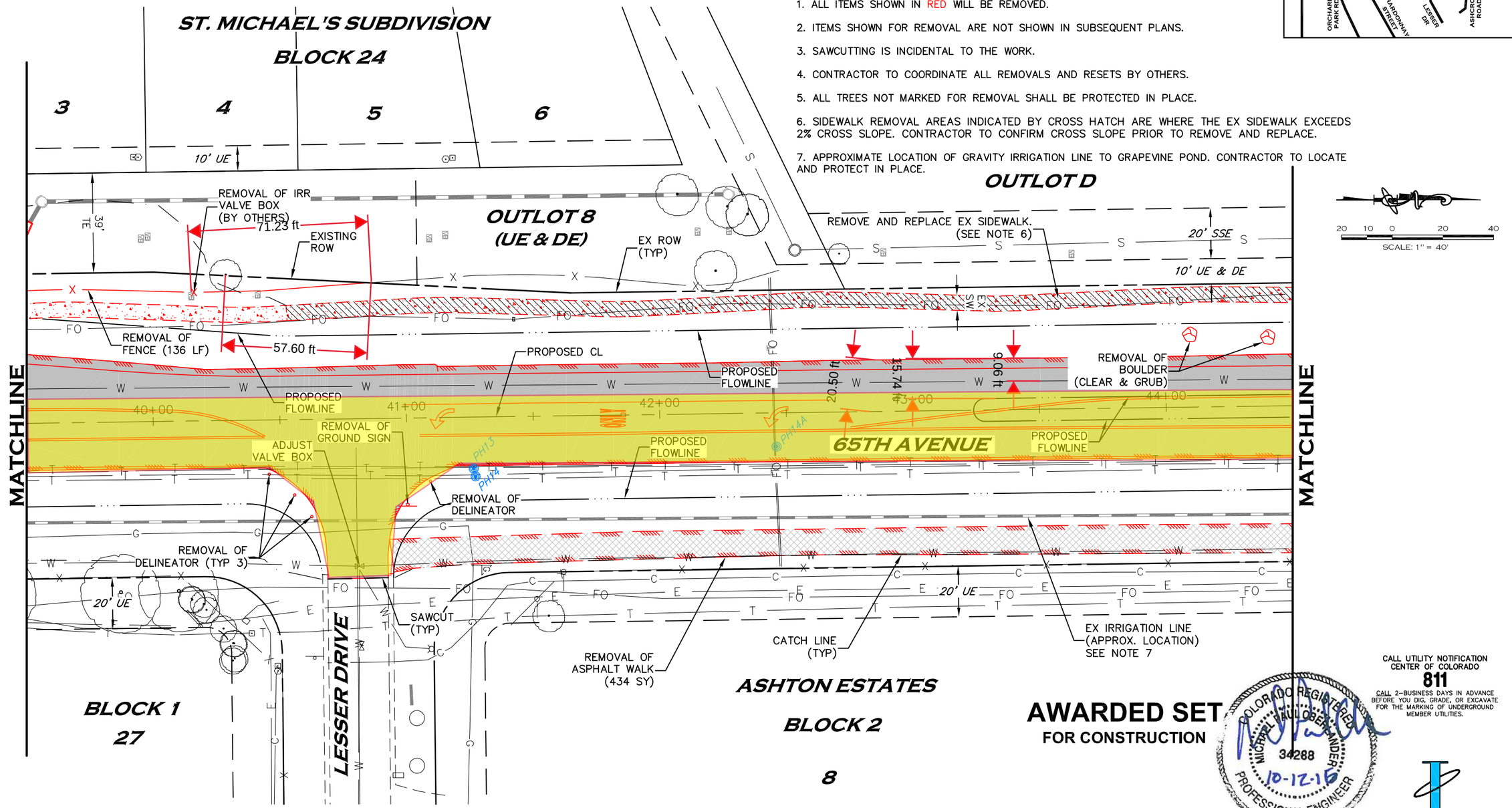
REMOVAL OF ASPHALT SIDEWALK

EX POTHOLE LOCATION



NOTE:

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6. SIDEWALK REMOVAL AREAS INDICATED BY CROSS HATCH ARE WHERE THE EX SIDEWALK EXCEEDS 2% CROSS SLOPE. CONTRACTOR TO CONFIRM CROSS SLOPE PRIOR TO REMOVE AND REPLACE.
7. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.



20 10 0 20 40

SCALE: 1" = 40'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 DEMO.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

REMOVAL PLAN
STA 39+50 TO STA 44+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 27

REMOVAL OF TREE

REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

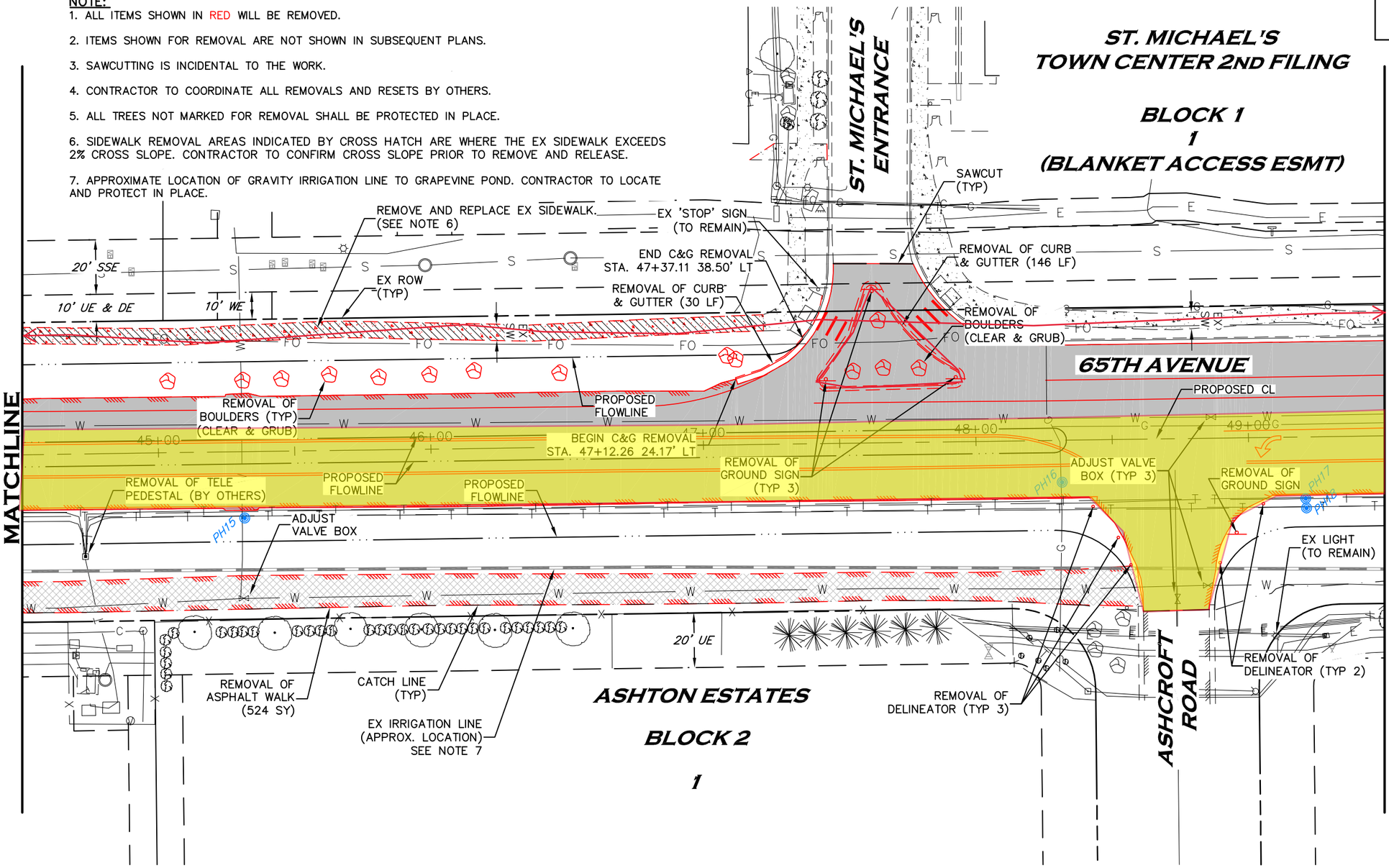
REMOVAL OF GRAVEL WALK

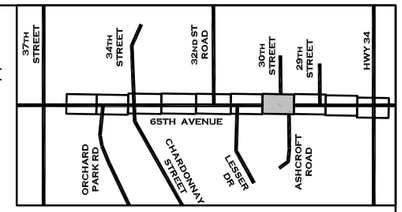
REMOVAL OF ASPHALT SIDEWALK

EX POTHOLE LOCATION

NOTE:

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6. SIDEWALK REMOVAL AREAS INDICATED BY CROSS HATCH ARE WHERE THE EX SIDEWALK EXCEEDS 2% CROSS SLOPE. CONTRACTOR TO CONFIRM CROSS SLOPE PRIOR TO REMOVE AND RELEASE.
7. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.





20 10 0 20 40

SCALE: 1" = 40'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

REMOVAL PLAN
STA 44+50 TO STA 49+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 28

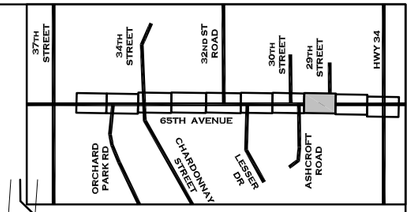
REMOVAL OF TREE

REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

REMOVAL OF PAVEMENT MARKING



20 10 0 20 40

SCALE: 1" = 40'

40 ft

ST. MICHAEL'S
TOWN CENTER 2ND FILING
BLOCK 1
1
(BLANKET ACCESS ESMT)

W. 29TH STREET

65TH AVENUE

ASHTON ESTATES
BLOCK 1
1

MATCHLINE

MATCHLINE

EX 'THE TAVERN' SIGN (PROTECT IN PLACE)

REMOVAL OF GROUND SIGN

EX ROW (TYP)

REMOVAL OF CURB & GUTTER (276 LF)

END C&G REMOVAL STA. 53+36.80 63.10' LT

EX KEEP RT' SIGN (TO REMAIN)

EX LIGHT (TO REMAIN)

REMOVAL OF GROUND SIGN

REMOVAL OF IRR VALVE BOX (BY OTHERS)

137.8 ft

12.04 ft

EX FIRE HYDRANT (PROTECT IN PLACE)

ADJUST VALVE BOX

ADJUST MH (STORM)

SAWCUT (TYP)

BEGIN C&G REMOVAL STA. 50+87.68 36.42' LT

PROPOSED FLOWLINE

REMOVAL OF FO VALVE BOX (BY OTHERS)

REMOVAL OF TELE PEDESTAL (BY OTHERS)

PROPOSED FLOWLINE

PROPOSED CL

REMOVAL OF GROUND SIGN

REMOVAL OF GROUND SIGN

ADJUST VALVE BOX

REMOVAL OF TELE PEDESTAL (BY OTHERS)

REMOVAL OF TELE PEDESTAL (BY OTHERS)

EXISTING ROW

FO VAULT (PROTECT IN PLACE)

ELEC VAULT (PROTECT IN PLACE)

ELEC TRANSFORMER (PROTECT IN PLACE)

EX IRRIGATION LINE (APPROX. LOCATION) SEE NOTE 7

CATCH LINE (TYP)

140' DE & UE

12.01 ft

10' DE

20' SSE

10' UE & DE

20' UE

8" CIP (1963)

12" PVC (2002)

20" DIP (1994)

50+00

51+00

52+00

54+00

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7. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERHANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

REMOVAL PLAN
STA 49+50 TO STA 54+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 29

REMOVAL OF TREE

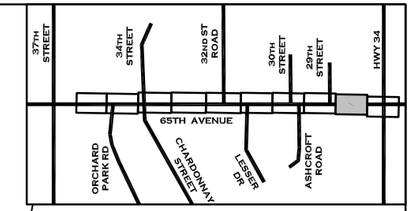
REMOVAL OF ASPHALT MAT

REMOVAL OF SIDEWALK

REMOVAL OF GRAVEL WALK

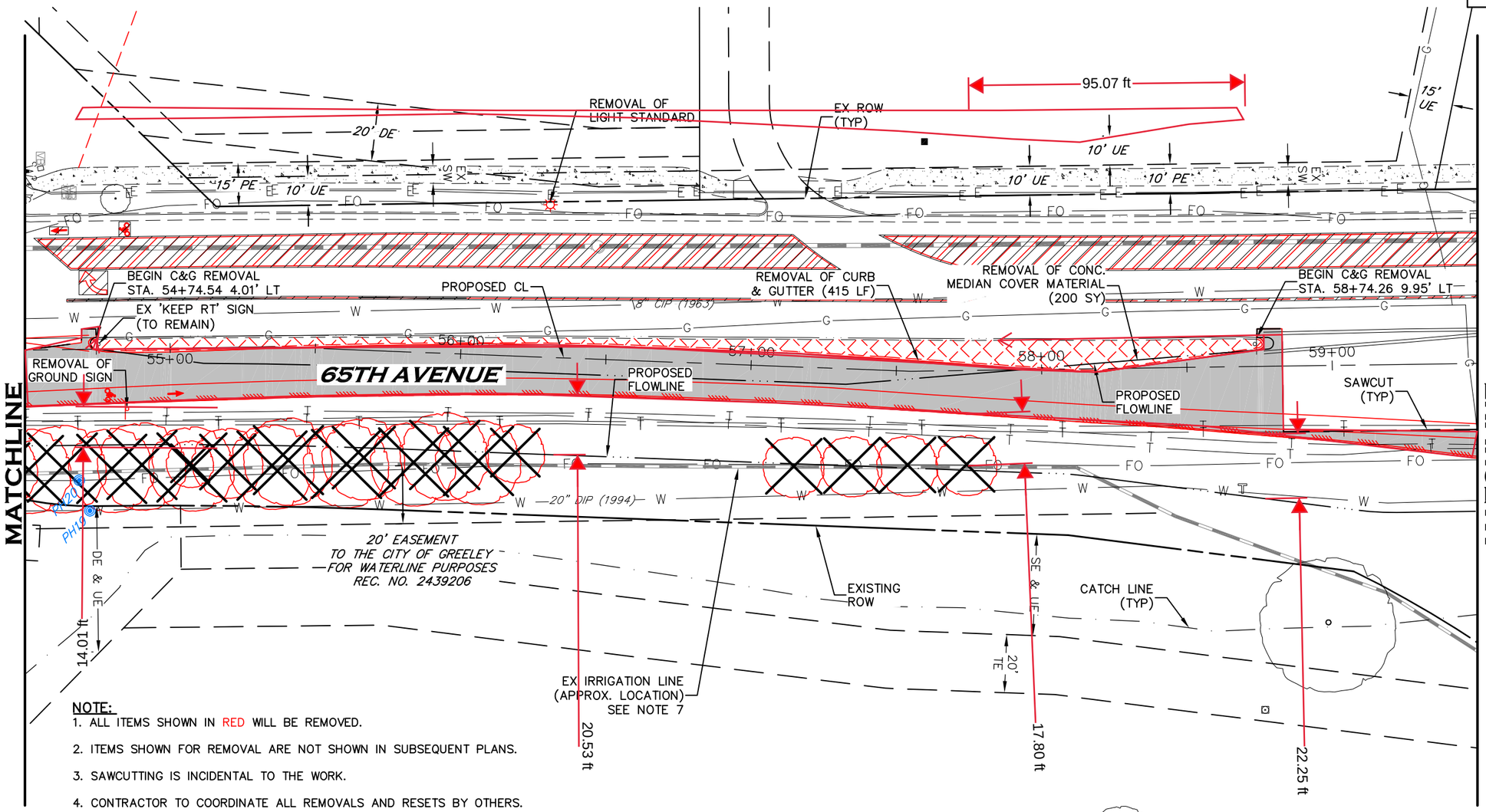
REMOVAL OF PAVEMENT MARKING

EX POTHOLE LOCATION



20 10 0 20 40

SCALE: 1" = 40'



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7. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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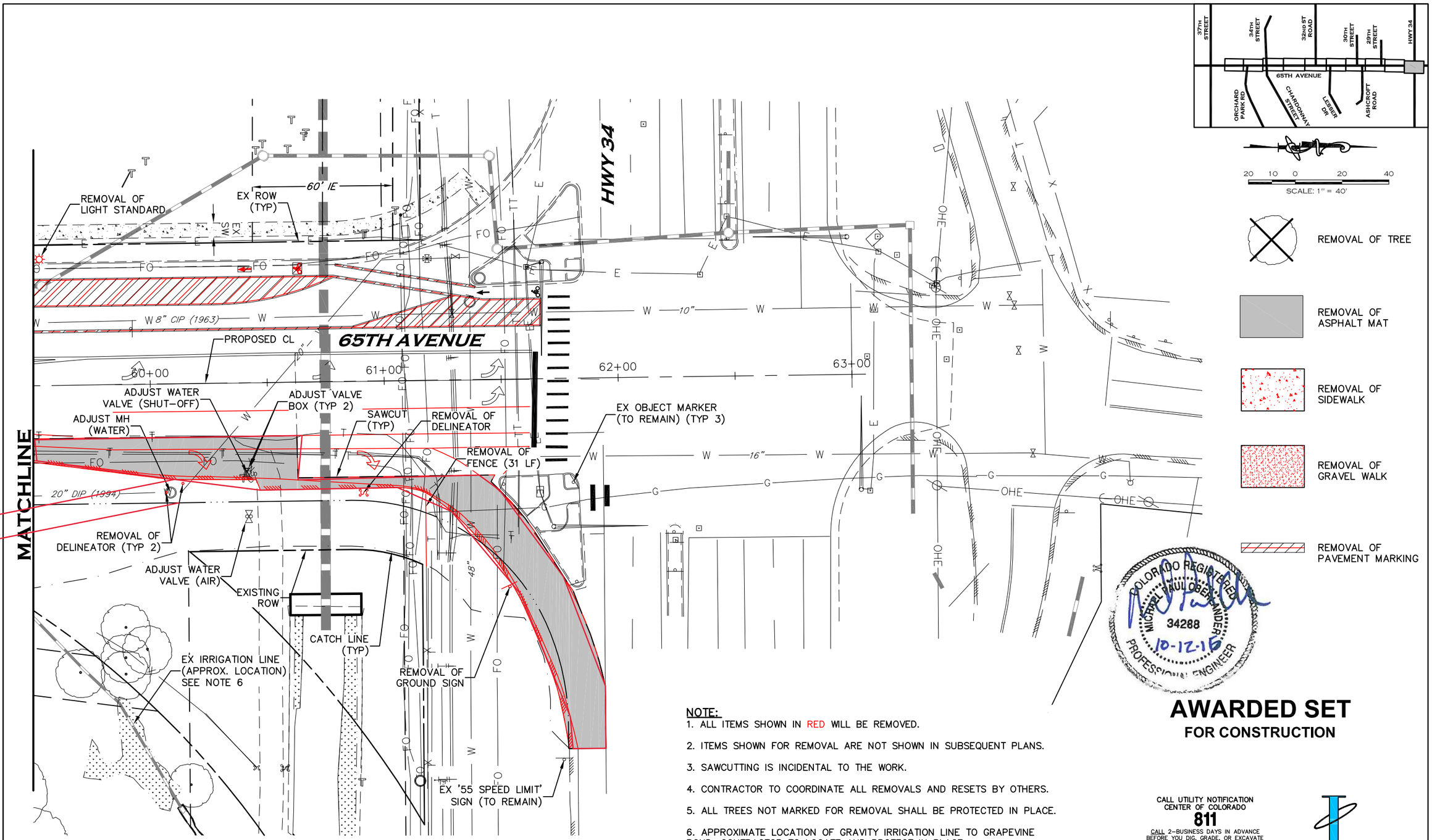
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As Constructed	
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REMOVAL PLAN
STA 54+50 TO STA 59+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 30



COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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CALL UTILITY NOTIFICATION CENTER OF COLORADO
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information	
Creation Date: 06/10/15	Initials: JDL
Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 DEMO.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions

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City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

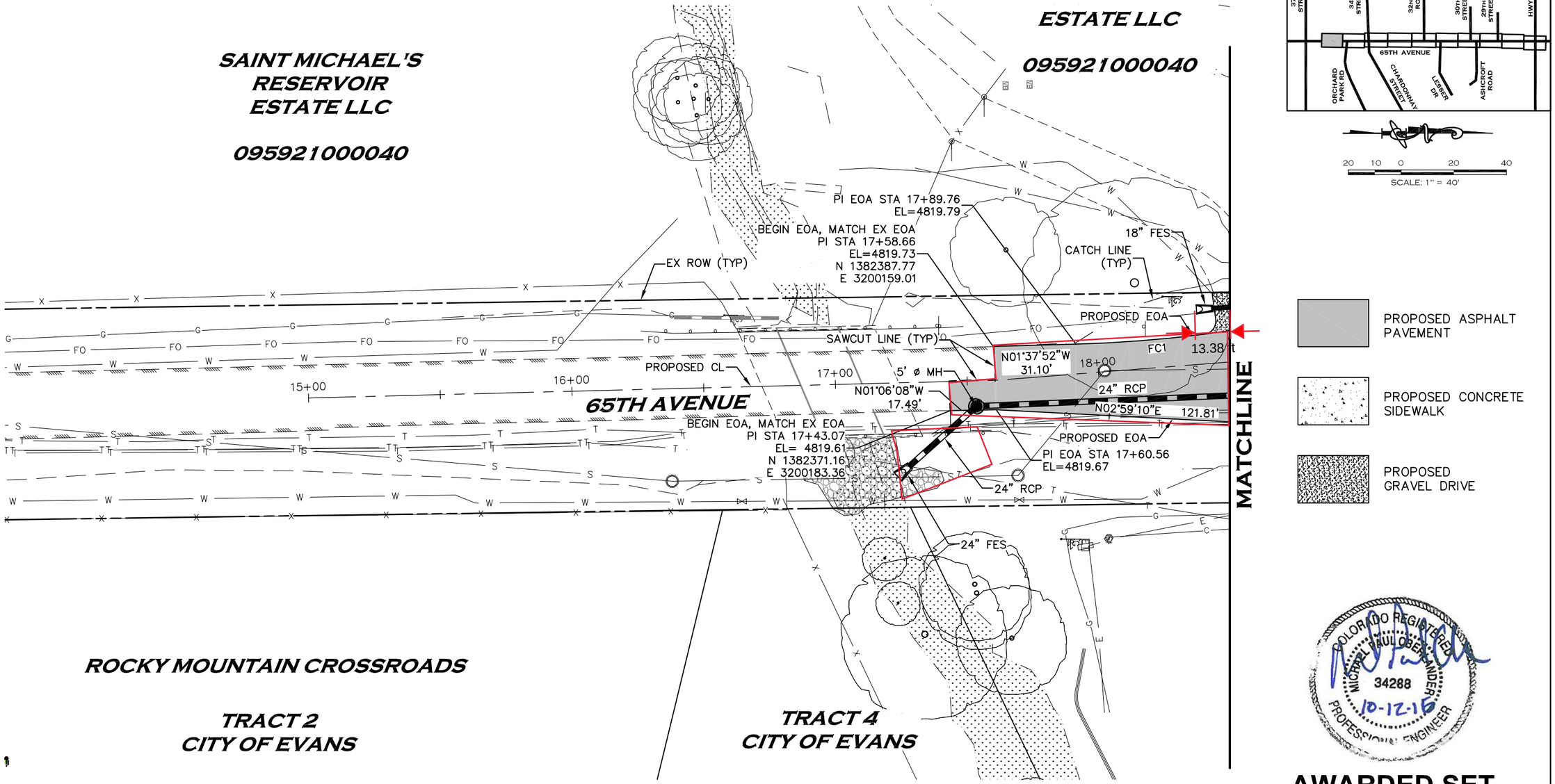
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Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

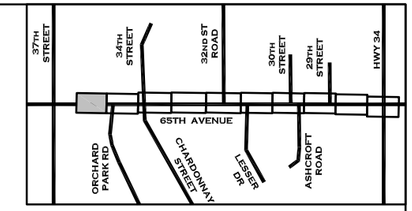
As Constructed	
No Revisions:	
Revised:	
Void:	

REMOVAL PLAN
STA 59+50 TO STA 63+00

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 31





20 10 0 20 40

SCALE: 1" = 40'

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

PROPOSED GRAVEL DRIVE

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC1	60.87	500.00	6°58'31"	N05°07'07"W	60.83

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 PLAN.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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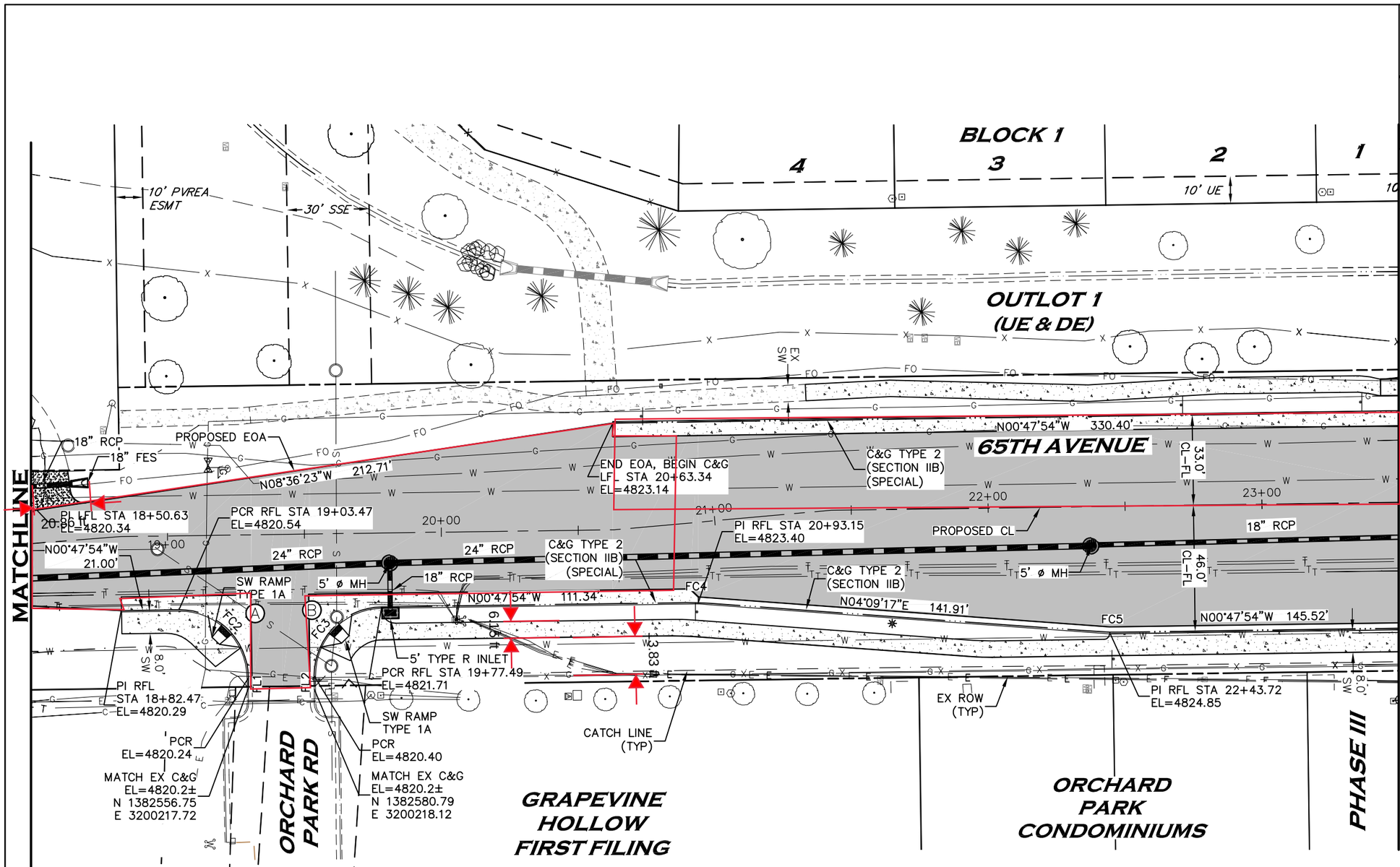
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Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

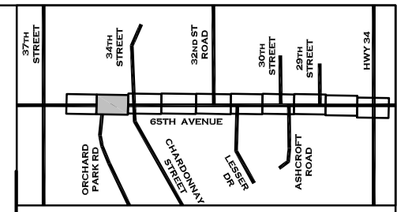
As Constructed	
No Revisions:	
Revised:	
Void:	

ROADWAY PLAN
STA 15+00 TO STA 18+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 32





20 10 0 20 40
SCALE: 1" = 40'

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

AWARDED SET
FOR CONSTRUCTION

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

PROPOSED GRAVEL DRIVE

LINE TABLE		
LINE	LENGTH	BEARING
FL1	3.70	N89°52'46"E
FL2	4.91	N89°38'15"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC2	39.57	25.00	90°40'40"	S44°32'26"W	35.56
FC3	39.08	25.00	89°33'50"	S45°34'49"E	35.22
FC4	8.65	100.00	4°57'12"	S01°40'42"W	8.64
FC5	8.65	100.00	4°57'12"	N01°40'42"E	8.64

INTERWEST CONSULTING GROUP

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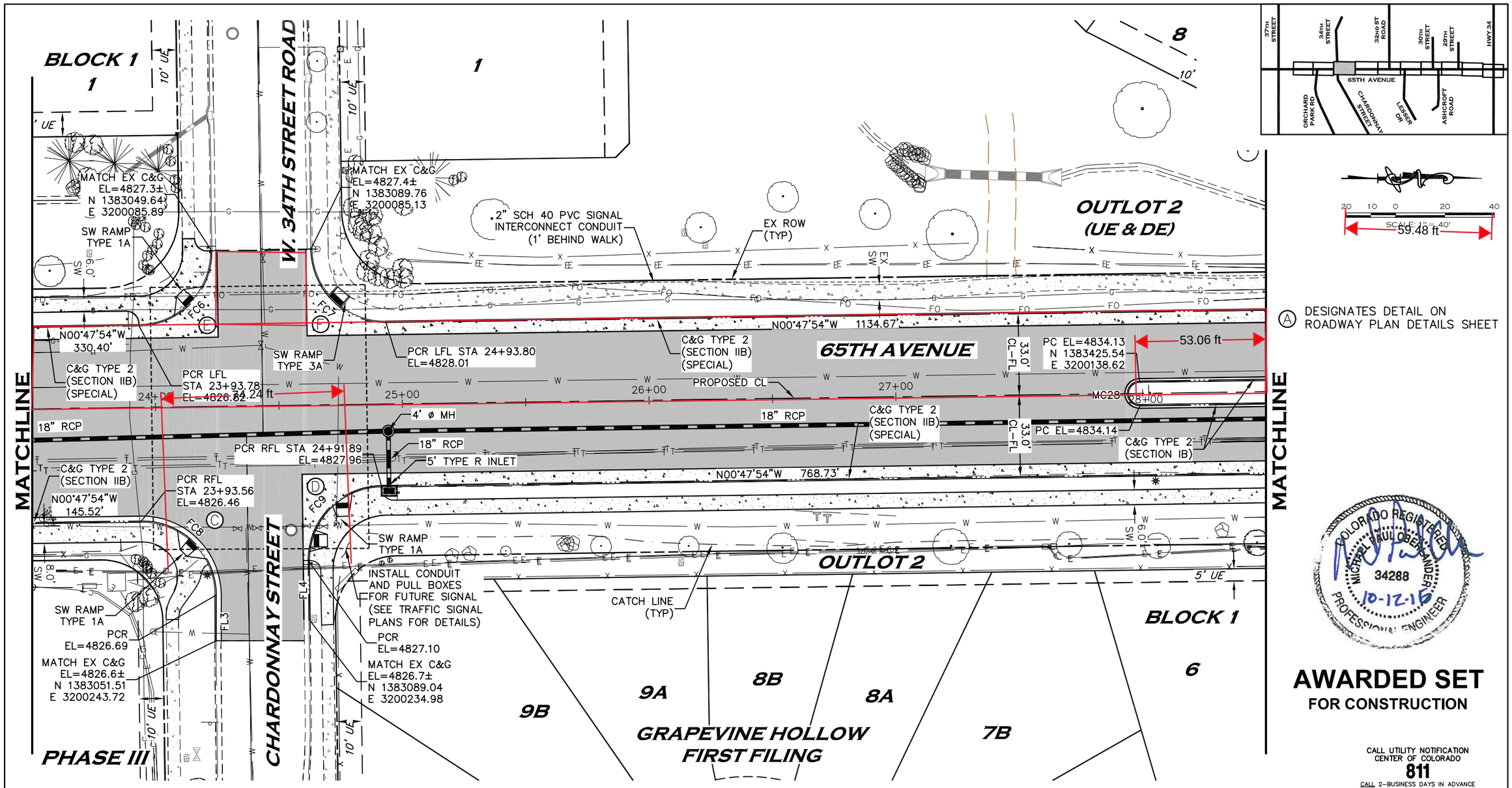
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ROADWAY PLAN
STA 18+50 TO STA 23+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 33



LINE TABLE		
LINE	LENGTH	BEARING
FL3	18.52	S89°54'19"W
FL4	23.71	N89°16'33"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC6	47.01	30.00	89°46'49"	N45°49'42"W	42.34
FC7	47.28	30.00	90°17'44"	N44°20'59"E	42.54
FC8	47.49	30.00	90°42'13"	S44°33'12"W	42.69
FC9	47.08	30.00	89°55'32"	S45°45'41"E	42.40
MC28	15.71	5.00	179°59'56"	N89°12'07"E	10.00

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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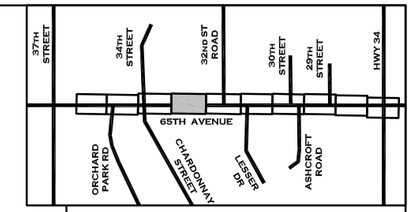
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As Constructed	ROADWAY PLAN	Project No./Code
No Revisions:	STA 23+50 TO STA 28+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 34
	Sheet Subset:	Subset Sheet::

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET



SCALE: 1" = 40'

9 10 11 12 13 14 15 16

ST. MICHAEL'S SUBDIVISION

BLOCK 21

10' UE

OUTLOT 2
(UE & DE)

EX ROW (TYP)

2" SCH 40 PVC SIGNAL INTERCONNECT CONDUIT (1' BEHIND WALK)

524.61 ft

65TH AVENUE

33.04 ft

68.82 ft

N00°47'54"W 1134.67'

28.0' FL-FL

C&G TYPE 2 (SECTION IB)

N00°47'54"W 573.67'

C&G TYPE 2 (SECTION IIB) (SPECIAL)

94.03 ft

PC EL=4844.43

PC EL=4844.43
N 1383999.29
E 3200140.62

MC29

4' ø MH

18" RCP

29+00 30+00 31+00 32+00 33+00

S00°47'54"E 573.67'

PROPOSED CL

C&G TYPE 2 (SECTION IIB) (SPECIAL)

PCR RFL
STA 32+60.60
EL=4841.93

PCR RFL
STA 33+57.22
EL=4843.45

N00°47'54"W 679.66'

N00°47'54"W 768.73'

FC10

FC11

5' TYPE R INLET

SW RAMP TYPE 1A

PCR
EL=4840.93

PCR
EL=4841.34

MATCH EX C&G
EL=4840.4±
N 1383917.61
E 3200222.73

MATCH EX C&G
EL=4840.3±
N 1383954.26
E 3200222.79

FL5

FL6

CONCORD STREET

MATCHLINE

MATCHLINE

OUTLOT 2

5' UE

CATCH LINE (TYP)

BLOCK 1

6 5 4B 4A 3A 3B 2B 2A 1

GRAPEVINE HOLLOW
FIRST FILING

10' UE

OUTLOT 1
BLOCK 2

LINE TABLE		
LINE	LENGTH	BEARING
FL5	22.84	S89°26'10"W
FL6	23.61	N89°21'44"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC10	47.25	30.00	90°14'04"	S44°19'08"W	42.51
FC11	47.04	30.00	89°50'22"	S45°43'05"E	42.37
MC29	15.71	5.00	179°59'54"	S89°12'03"W	10.00

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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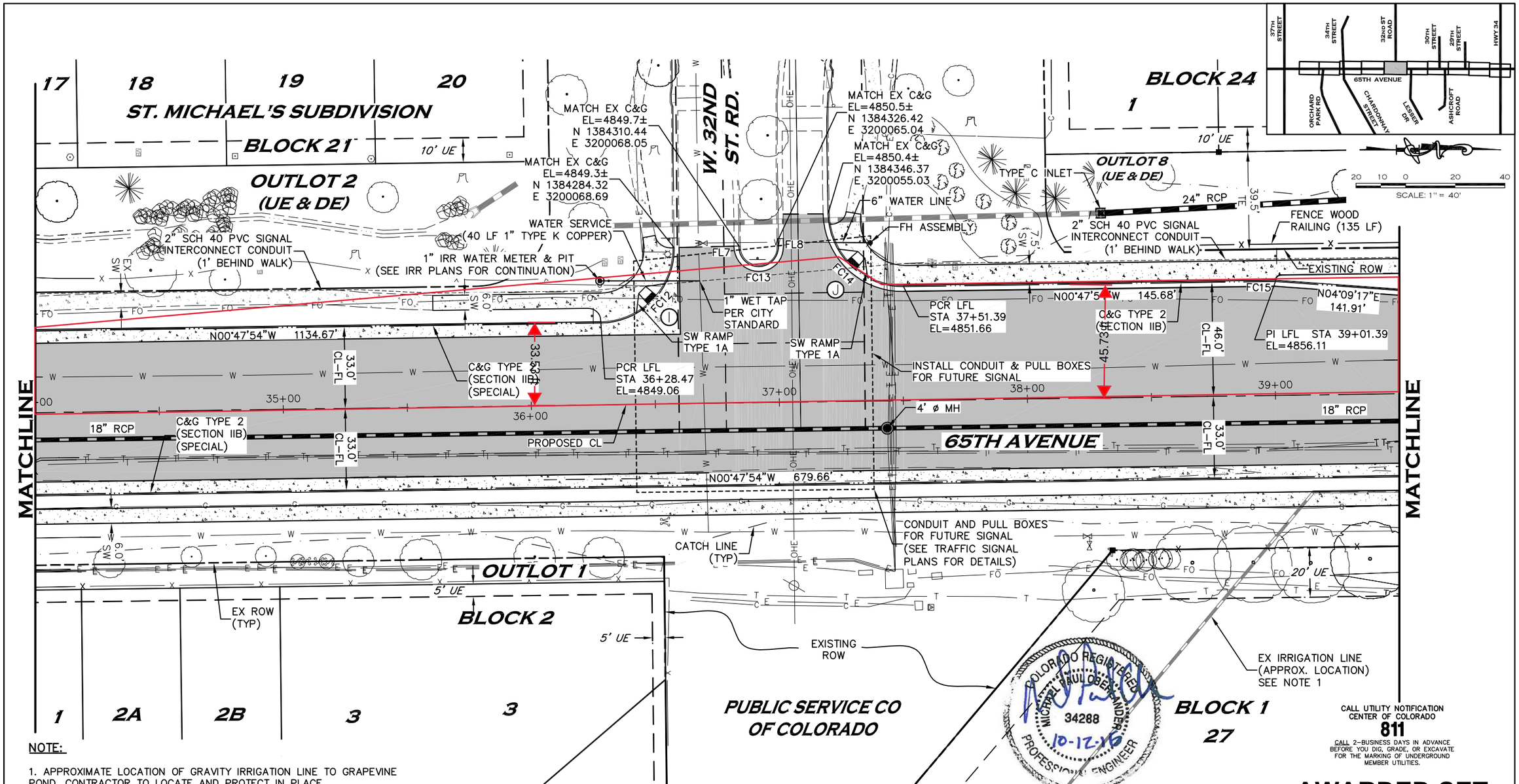
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Greeley, CO 80634
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FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

ROADWAY PLAN
STA 28+50 TO STA 34+00

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 35



NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

LINE TABLE		
LINE	LENGTH	BEARING
FL7	0.27	N89°43'48"E
FL8	3.20	S89°43'48"W

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC12	47.07	30.00	89°54'03"	N45°44'56"W	42.39
FC13	25.14	7.95	181°07'14"	N00°16'02"W	15.90
FC14	46.87	30.00	89°30'55"	N43°57'34"E	42.25
FC15	8.65	100.00	4°57'12"	S01°40'42"W	8.64

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

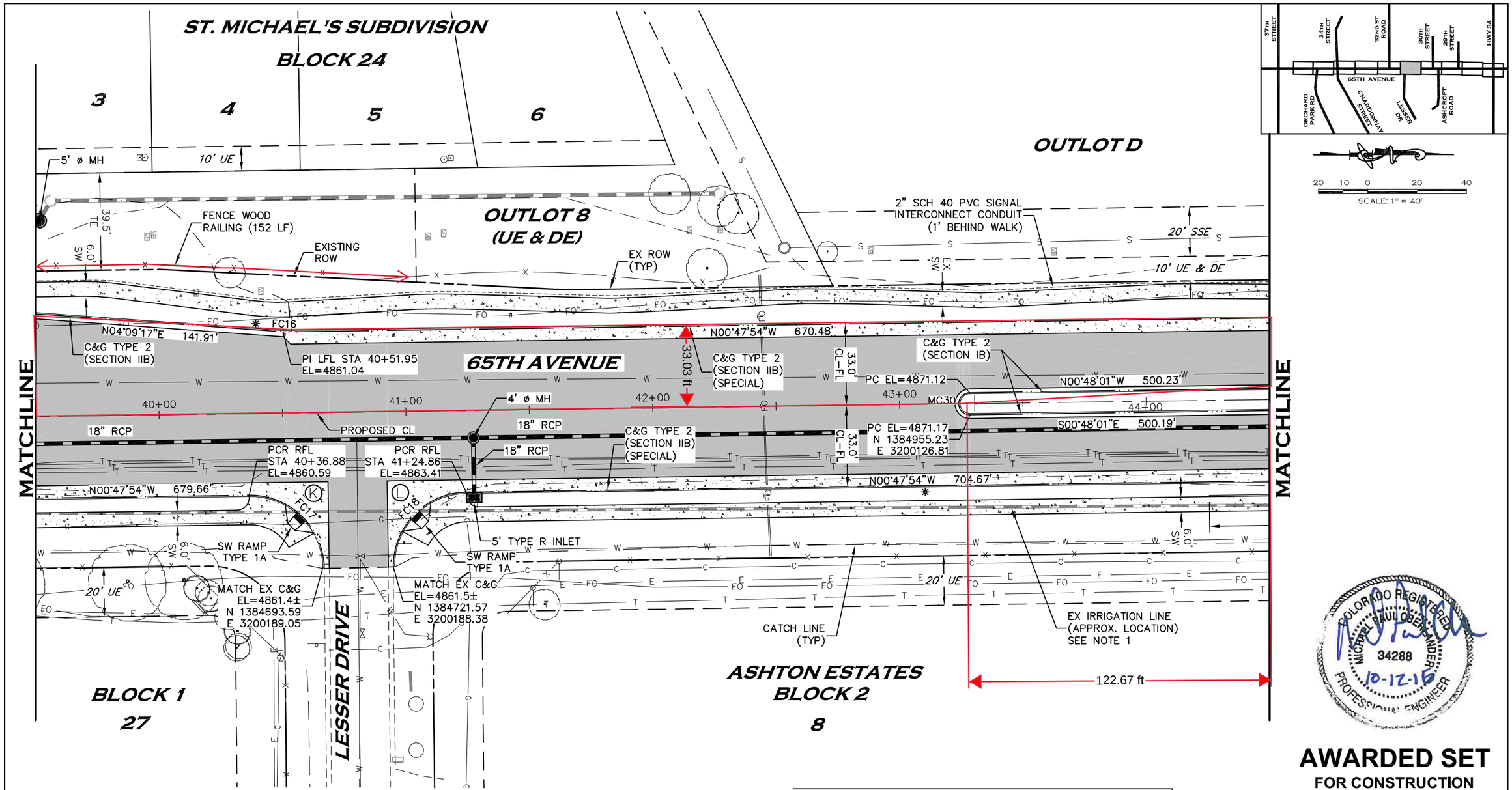
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Full Path:	
Drawing File Name: 1138-083-03 PLAN.dwg	
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Region 4 LHN

As Constructed	ROADWAY PLAN	Project No./Code
No Revisions:	STA 34+00 TO STA 39+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	
	Sheet Subset: Subset Sheet::	SHEET NUMBER 36



AWARDED SET
FOR CONSTRUCTION

NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC16	8.65	100.00	4°57'12"	N01°40'42"E	8.64
FC17	47.23	30.00	90°11'43"	S44°17'58"W	42.50
FC18	46.94	30.00	89°39'00"	S45°37'24"E	42.30
MC30	14.14	4.50	180°00'00"	N89°11'59"E	9.00

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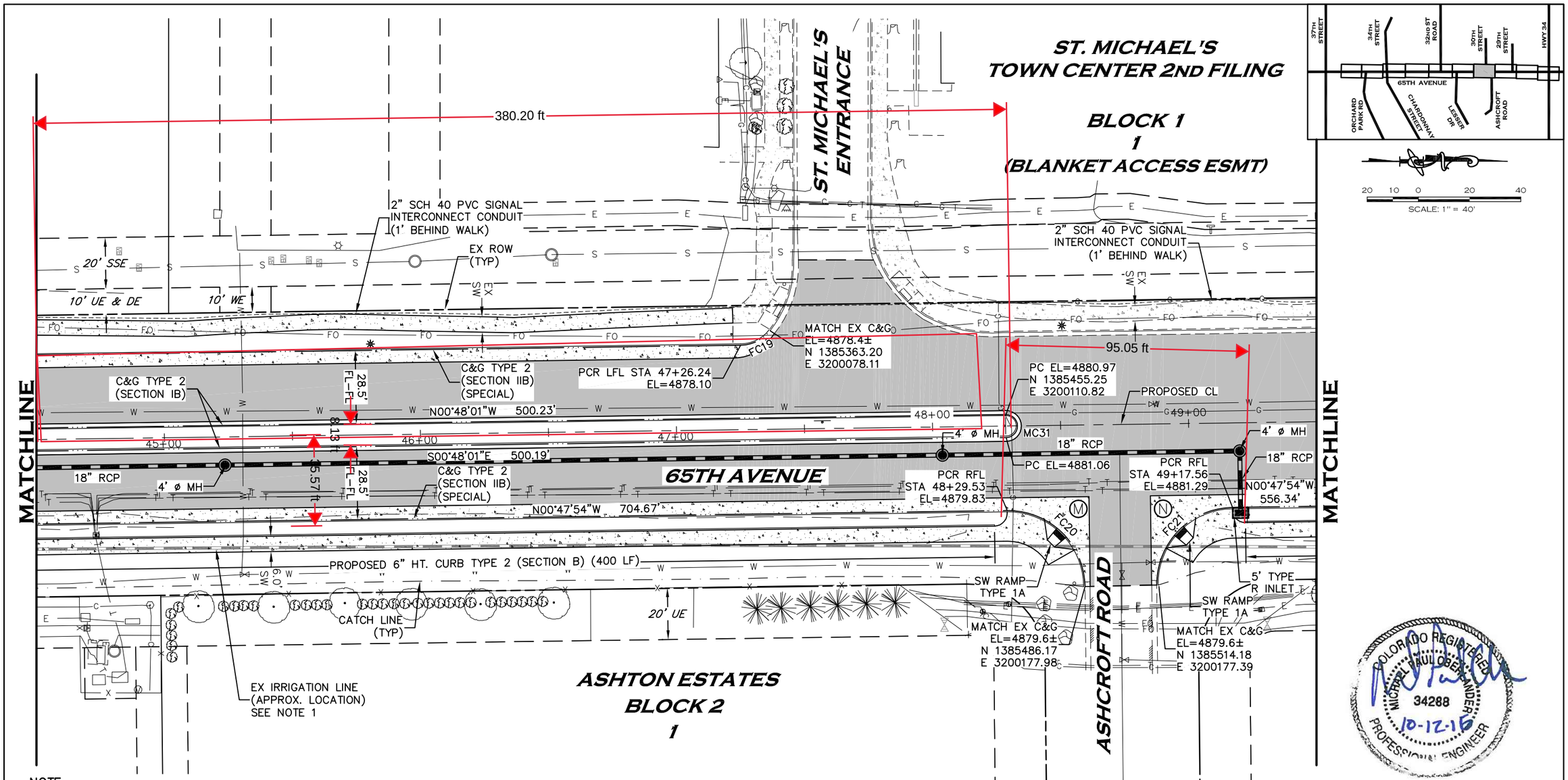
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FAX: 970-350-2198
Region 4 LHN

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No Revisions:	
Revised:	
Void:	

ROADWAY PLAN STA 39+50 TO STA 44+50			
Designer: J. LOFTON			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 37



NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC19	13.27	15.00	50°41'49"	N26°08'49"W	12.84
FC20	47.20	30.00	90°08'10"	S44°16'11"W	42.48
FC21	47.00	30.00	89°46'09"	S45°40'59"E	42.34
MC31	14.14	4.50	180°00'00"	S89°11'59"W	9.00

COLORADO REGISTERED MICHAEL PAUL OBERMANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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As Constructed
No Revisions:
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ROADWAY PLAN			
STA 44+50 TO STA 49+50			
Designer: J. LOFTON			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 38

ST. MICHAEL'S TOWN CENTER 2ND FILING

BLOCK 1

1

(BLANKET ACCESS ESMT)

20' SSE

10' UE & DE

EX ROW (TYP)

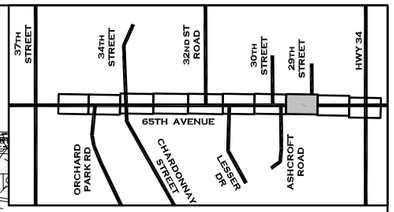
2" SCH 40 PVC SIGNAL INTERCONNECT CONDUIT (1' BEHIND WALK)

10' DE

SW RAMP TYPE 1A

MATCH EX C&G
EL=4881.2±
N 1385962.49
E 3200045.16

W. 29TH STREET



20 10 0 20 40
SCALE: 1" = 40'

N03°07'10"E 50.01'

N00°47'54"W 169.24'

BEGIN C&G, MATCH EX
PI STA 50+89.0
EL=4883.6±
N 1385713.76
E 3200075.31

C&G TYPE 2 (SECTION IIB)

PI LFL STA 51+38.99
EL=4884.33

C&G TYPE 2 (SECTION IIB) (SPECIAL)

33.0' CL-FL

PCR LFL
STA 53+08.23
EL=4883.78

8" CIP (1963)

12" DIP (2002)

50+00 51+00 52+00 53+00 54+00

PROPOSED CL

SW RAMP TYPE 3A

CONDUIT AND PULL BOXES FOR SIGNAL (SEE TRAFFIC SIGNAL PLANS FOR DETAILS)

65TH AVENUE

C&G TYPE 2 (SECTION IIB) (SPECIAL)

N00°47'54"W 556.34'

6 ft

PROPOSED 12" HT. CURB TYPE 2 (SECTION B) (378 LF)

6.0' SW

20' UE

20" DIP (1994)

EXISTING ROW

EX IRRIGATION LINE (APPROX. LOCATION) SEE NOTE 1

CATCH LINE (TYP)

MATCHLINE

MATCHLINE

ASHTON ESTATES

BLOCK 1

1

140.0' DE & UE

DETENTION/WATER QUALITY POND

WATER QUALITY OUTLET STRUCTURE

18" RCP

18" FES

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC22	47.22	30.00	90°11'17"	N45°53'33"W	42.50

NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

Ⓐ DESIGNATES DETAIL ON ROADWAY PLAN DETAILS SHEET

COLORADO REGISTERED MICHAEL PAUL OBERMEIER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

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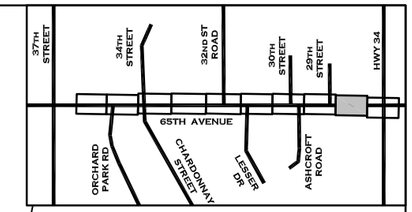
ROADWAY PLAN
STA 49+50 TO STA 54+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 39

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK



20 10 0 20 40

SCALE: 1" = 40'

1.48 in

65TH AVENUE

MATCHLINE

MATCHLINE

EX ROW (TYP)

-20' DE- -SW EX

15' PE

10' UE

10' UE

10' UE

10' PE

SW EX

15' UE

MATCH EX C&G
PC EL=4883.6±
N 1386101.04
E 3200102.32

MEDIAN COVER MATERIAL ON ABC

8" CIP (1963)

MATCH EX C&G
EL=4889.7±
N 1386500.49
E 3200102.33

PC EL=4889.70

ML1

MC32

MC33

MC34

55+00

56+00

57+00

58+00

59+00

N07°28'12"
37.55'

PI EL=4883.46

PC EL=4883.52

PT RFL STA 55+75.35
EL=4883.17

PT EL=4883.84

N02°08'52"E 156.60'

28.0' FL-FL

PROPOSED CL

PI EL=4883.52

CURB TYPE 2
(SECTION B)

N04°46'22"W 145.81'

PC EL=4889.63

N00°47'54"W
556.34'

FC23

5' TYPE R INLET

PC RFL STA 54+73.90
EL=4882.78

18" RCP

18" FES

DE & UE

C&G TYPE 2
(SECTION IIB)
(SPECIAL)

20' EASEMENT
TO THE CITY OF GREELEY
FOR WATERLINE PURPOSES
REC. NO. 2439206

20" CIP (1994)

SW 6.0'

N02°08'52"E 231.42'

160.0'

EXISTING ROW

EX IRRIGATION LINE
(APPROX. LOCATION)
SEE NOTE 1

SE & UE

20.0' TE

FC24

N07°13'18"E 93.77'

C&G TYPE 2
(SECTION IIB)

FC25

N00°47'54"W
163.97'

PI RFL STA 58+11.20
EL=4887.51

PI RFL STA 59+16.40
EL=4888.69

CATCH LINE
(TYP)

LINE TABLE		
LINE	LENGTH	BEARING
ML1	3.66	N00°23'54"W

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC23	101.45	1973.00	2°56'46"	S00°40'29"W	101.44
FC24	8.86	100.00	5°04'26"	S04°41'05"W	8.85
FC25	14.00	100.00	8°01'12"	N03°12'42"E	13.99
MC32	5.99	2.00	171°41'51"	S86°40'53"E	3.99
MC33	64.51	2001.00	1°50'50"	S01°13'27"W	64.51
MC34	6.13	2.00	175°37'32"	S87°24'52"W	4.00

COLORADO REGISTERED
MICHAEL PAUL OBERMUELLER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INTERWEST CONSULTING GROUP

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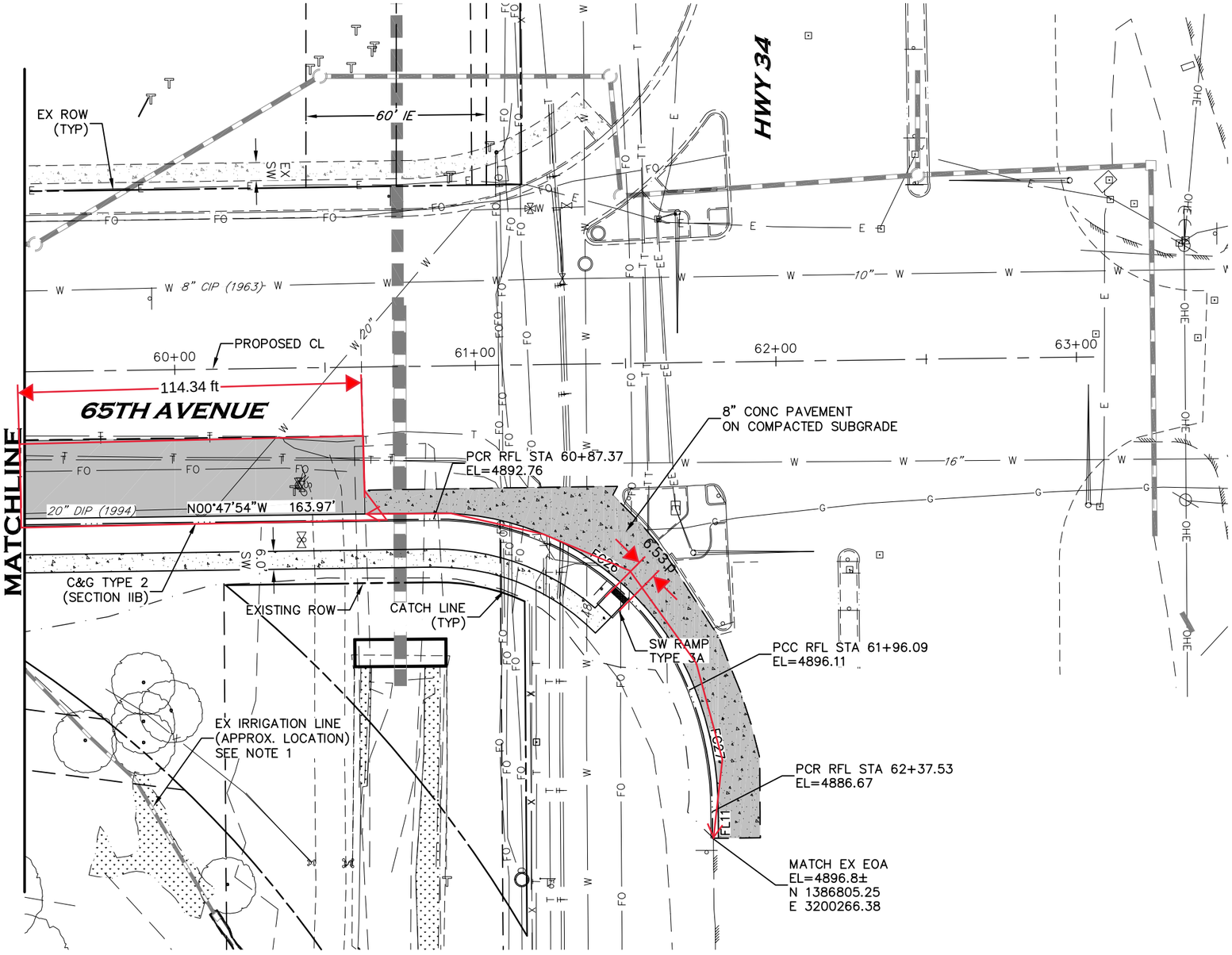
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Region 4 LHN

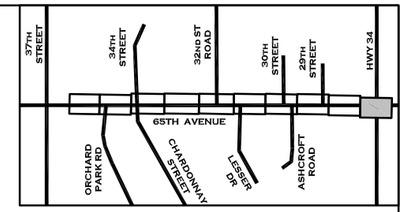
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ROADWAY PLAN
STA 54+50 TO STA 59+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 40





20 10 0 20 40
SCALE: 1" = 40'

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE PAVEMENT

PROPOSED CONCRETE SIDEWALK

LINE TABLE		
LINE	LENGTH	BEARING
FL11	8.81	N89°30'00"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	LENGTH
FC26	108.72	90.00	69°12'48"	S33°48'30"W	102.23
FC27	41.44	110.00	21°35'06"	S79°12'27"W	41.20

NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

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COLORADO REGISTERED MICHAEL PAUL OBERHANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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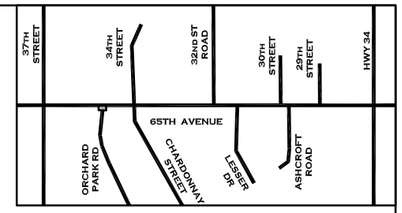
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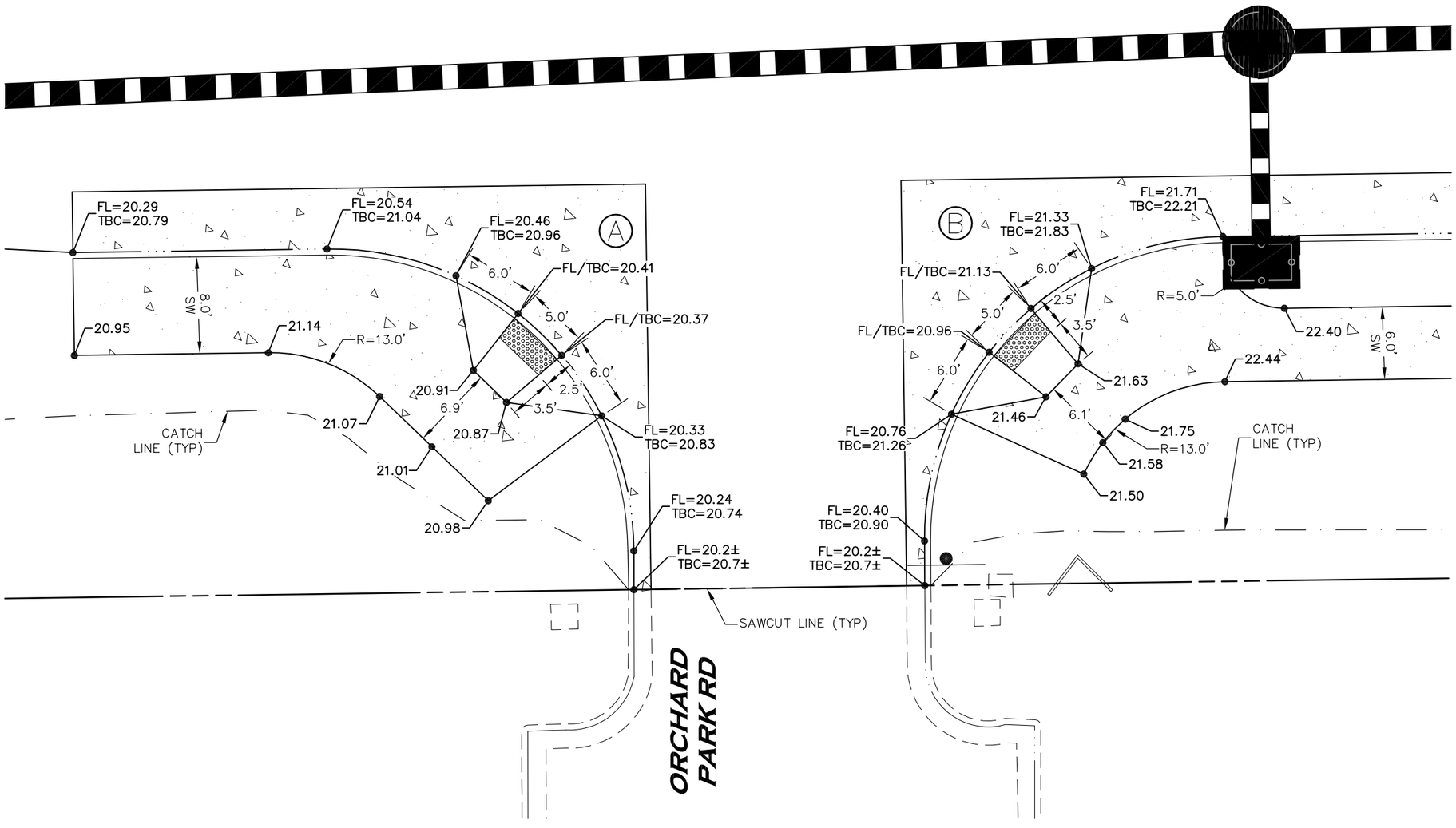
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ROADWAY PLAN
STA 59+50 TO STA 63+00

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 41





5 0 5 10
SCALE: 1" = 10'

PROPOSED CONCRETE SIDEWALK

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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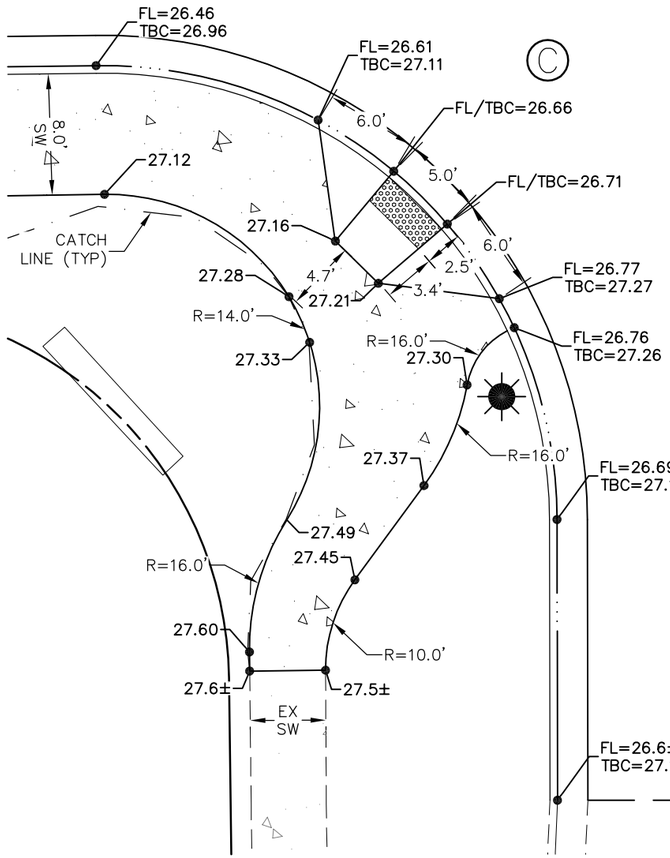
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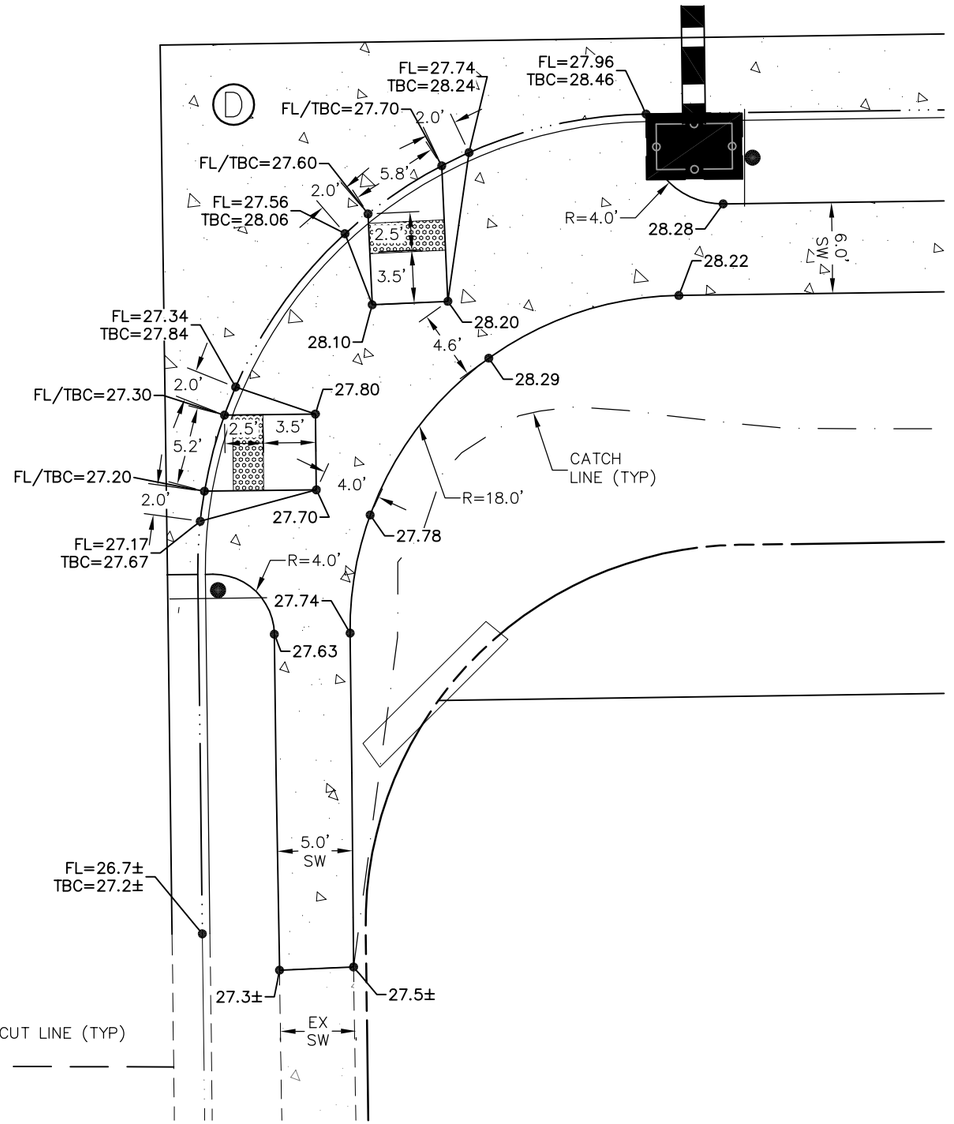
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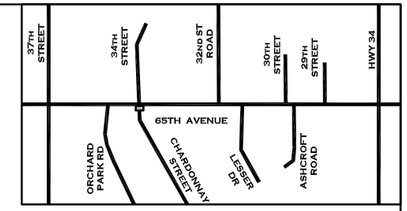
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No Revisions:		STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	
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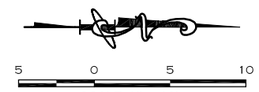
65TH AVENUE



CHARDONNAY STREET







PROPOSED CONCRETE SIDEWALK

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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FOR CONSTRUCTION

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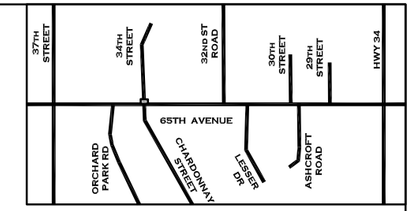
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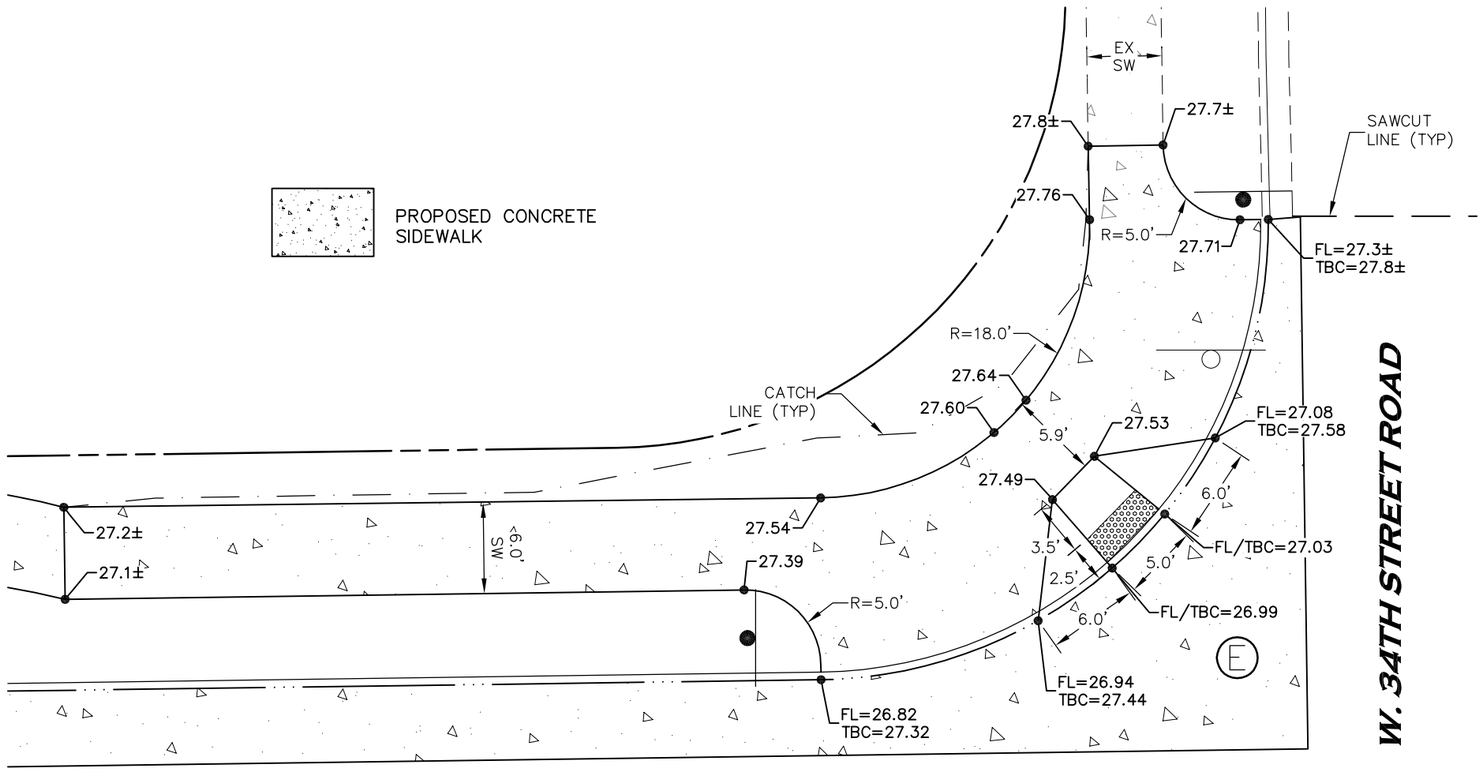
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Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 43
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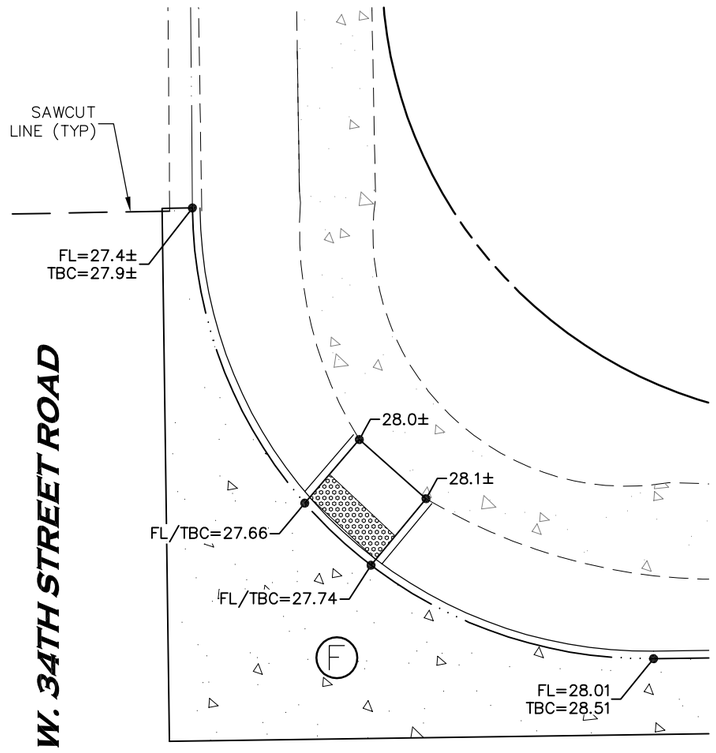
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SCALE: 1" = 10'

PROPOSED CONCRETE SIDEWALK



W. 34TH STREET ROAD



W. 34TH STREET ROAD

65TH AVENUE

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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FOR CONSTRUCTION

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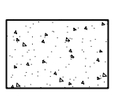
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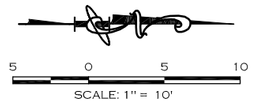
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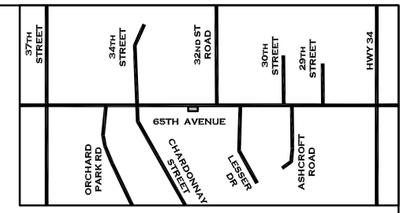
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Detailer:	S. WEIER		
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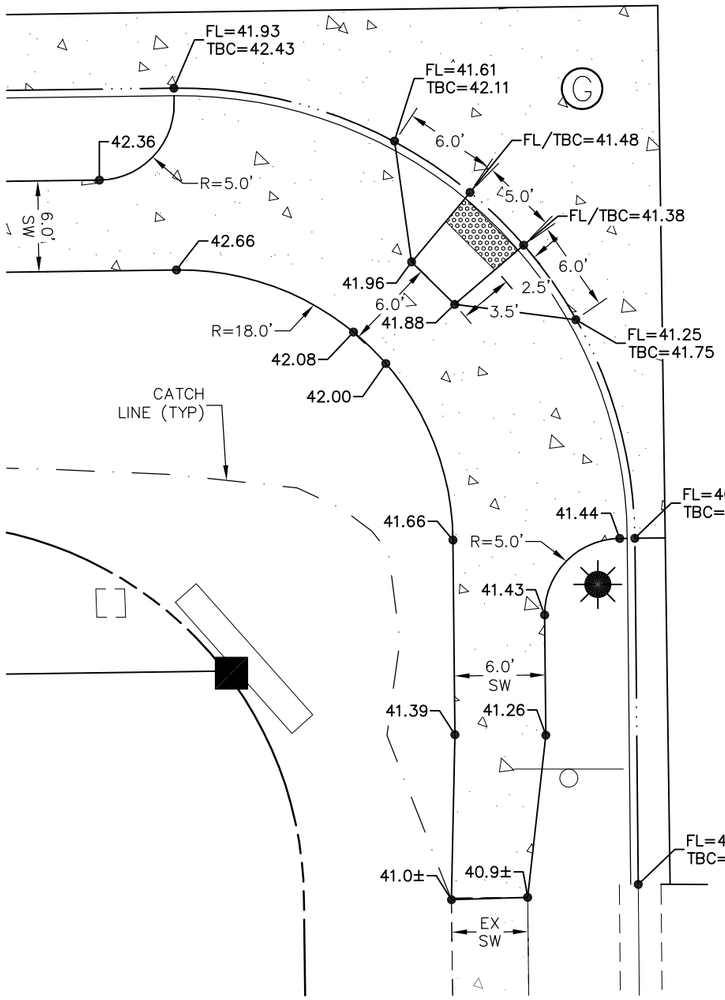


PROPOSED CONCRETE SIDEWALK

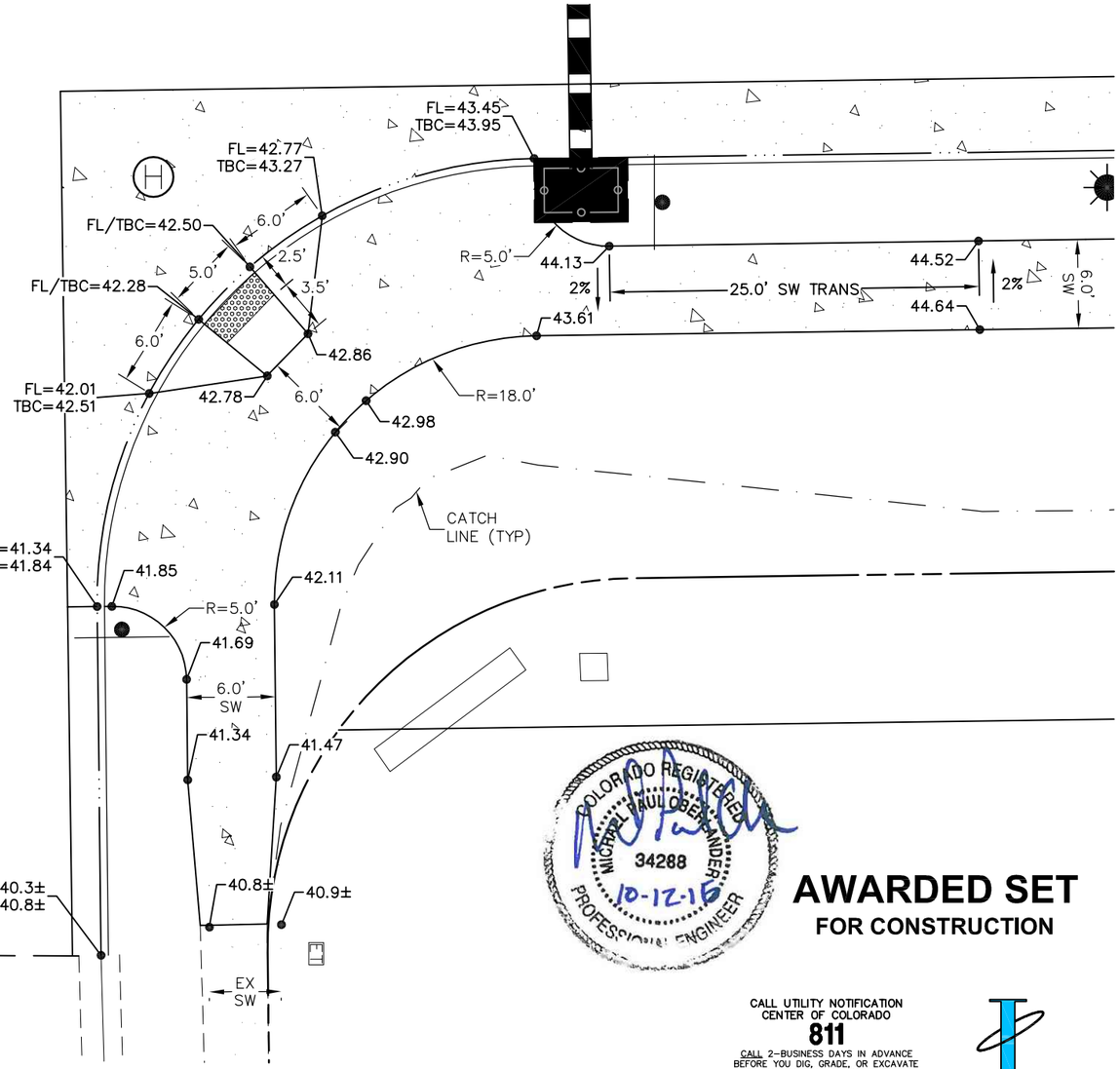




65TH AVENUE



CONCORD STREET



COLORADO REGISTERED MICHAEL PAUL OLEXANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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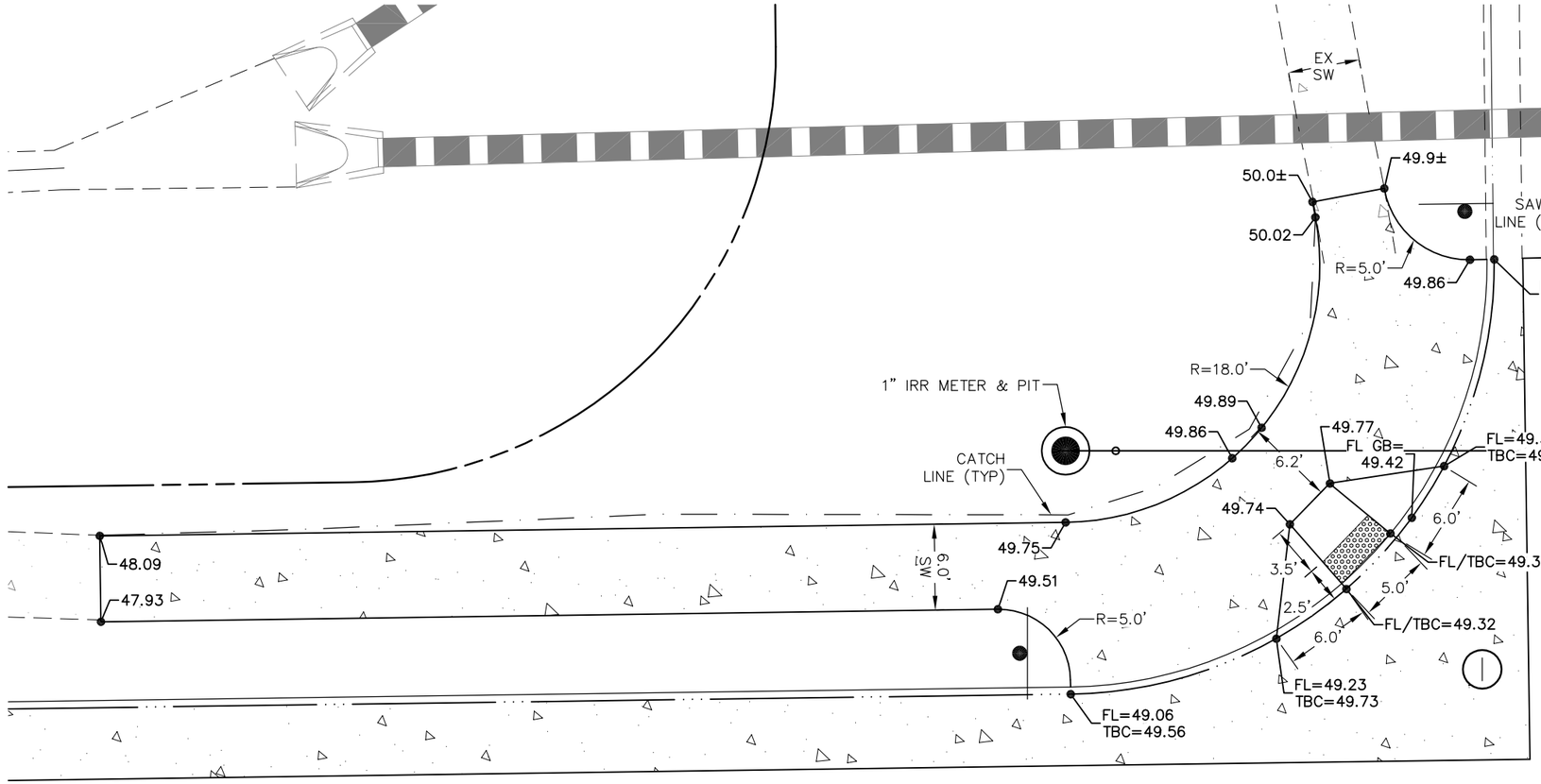
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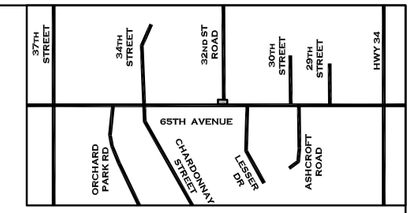
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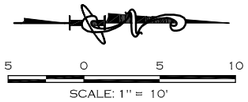
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Detailer: S. WEIER			
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SHEET NUMBER 45







PROPOSED CONCRETE SIDEWALK

COLORADO REGISTERED
MICHAEL PAUL OBERSINNER
34288
10-12-16
PROFESSIONAL ENGINEER

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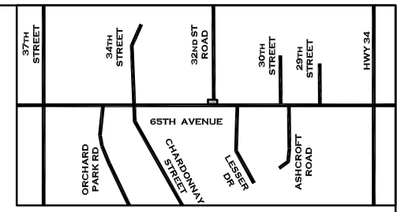
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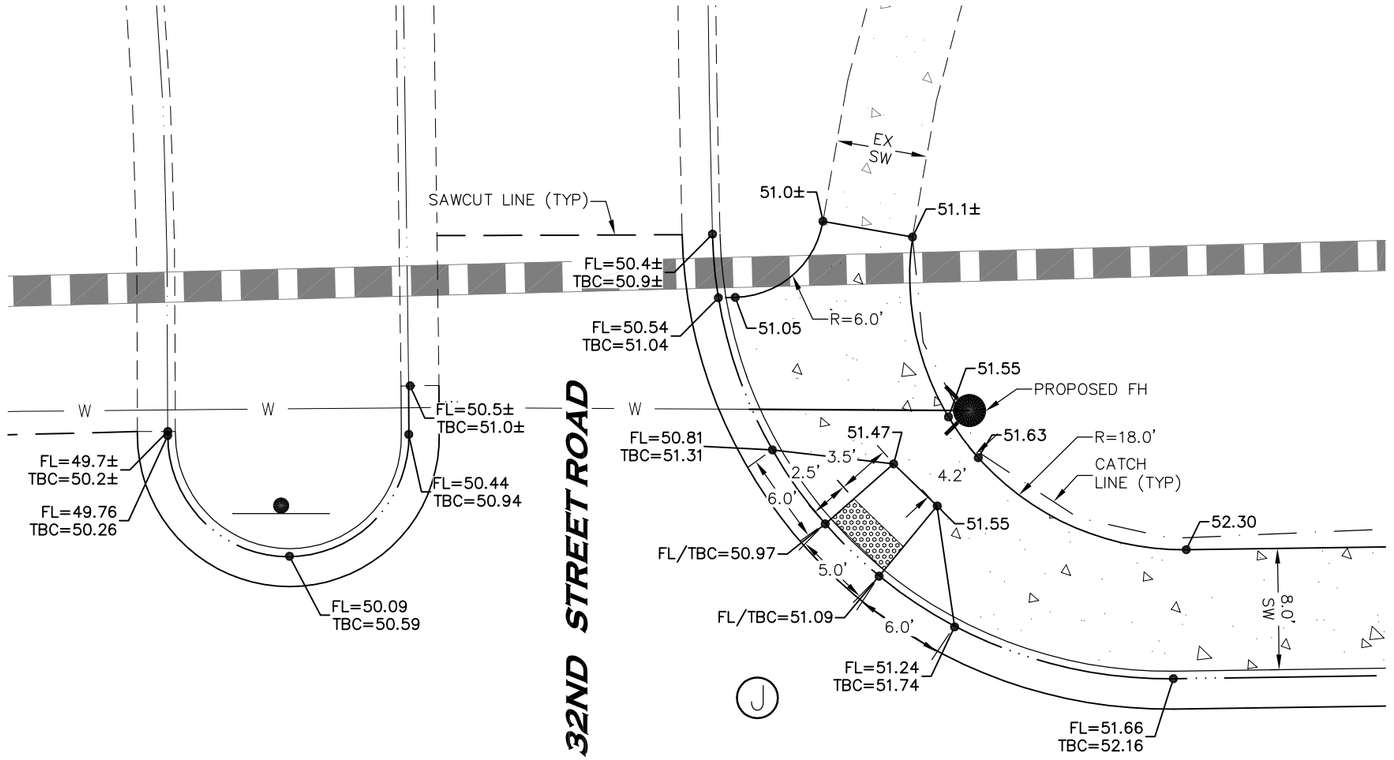
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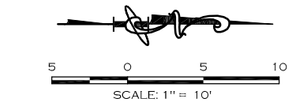
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Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

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STU M570-046
20148
SHEET NUMBER 46







PROPOSED CONCRETE SIDEWALK

65TH AVENUE

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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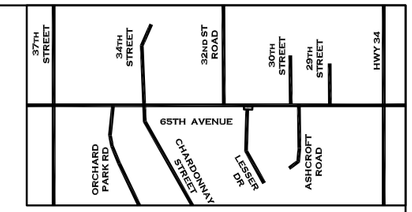
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Phone: 970.350.9881

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Greeley, CO 80634
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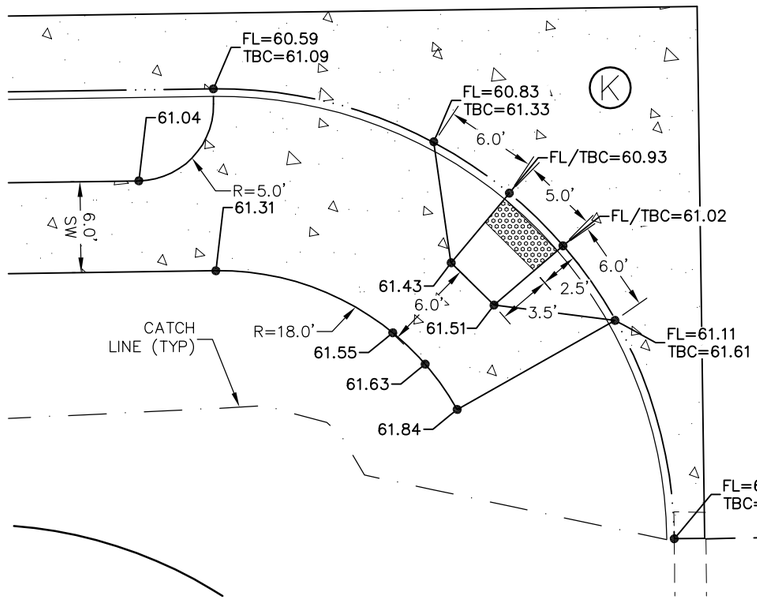
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Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 47
	Sheet Subset:	Subset Sheet::		

PROPOSED CONCRETE SIDEWALK

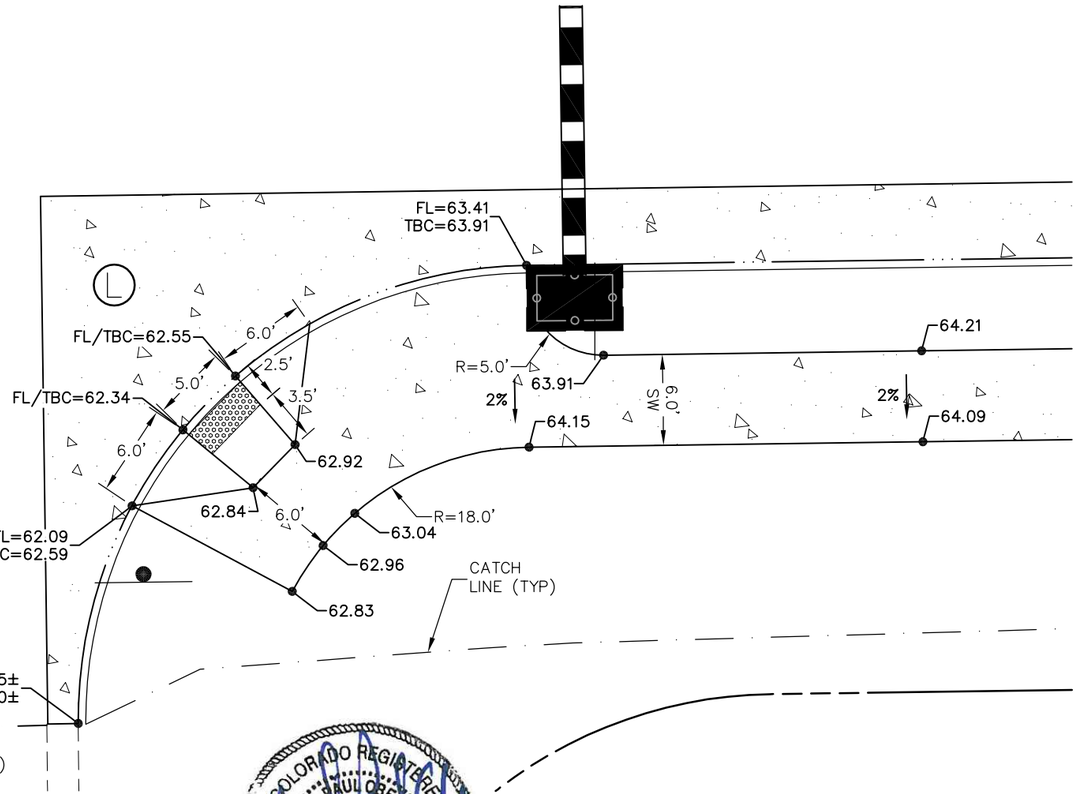
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SCALE: 1" = 10'



65TH AVENUE



LESSER DRIVE



COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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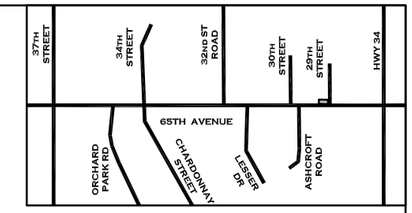
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	ROADWAY PLAN DETAILS			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 48

PROPOSED CONCRETE SIDEWALK

5 0 5 10
SCALE: 1" = 10'



EX SW
81.7±
81.9±
FL=80.9±
TBC=81.4±
4.6' SW
82.49
R=3.5'
FL=81.58
TBC=82.08
R=18.0'
83.14
83.30
83.06
FL=82.28
TBC=82.78
3.9'
83.22
6.0'
3.5'
FL/TBC=82.56
5.0'
2.5'
FL/TBC=82.80
6.0'
R=4.0
84.30
83.69
83.81
CATCH LINE (TYP)
84.7±
84.6±
6.0' SW
85.51
85.39
FL=83.78
TBC=84.28
FL=83.08
TBC=83.58
W. 29TH STREET
SAWCUT LINE (TYP)

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 PROFESSIONAL ENGINEER 10-12-16

65TH AVENUE

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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INTERWEST CONSULTING GROUP

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Full Path:	
Drawing File Name: 1138-083-03 PLAN-DET.dwg	
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City of Greeley
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Phone: 970.350.9881

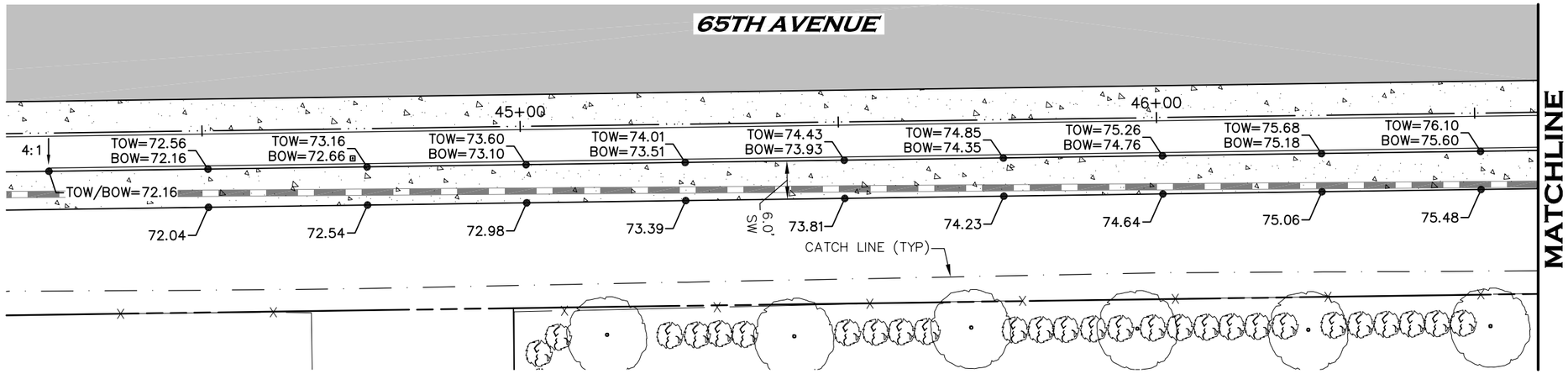
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

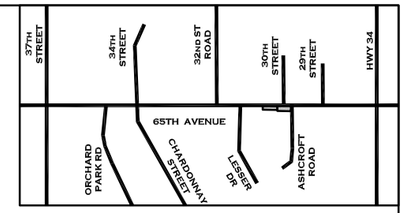
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Revised:
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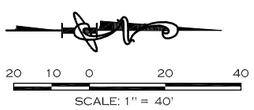
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Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 49

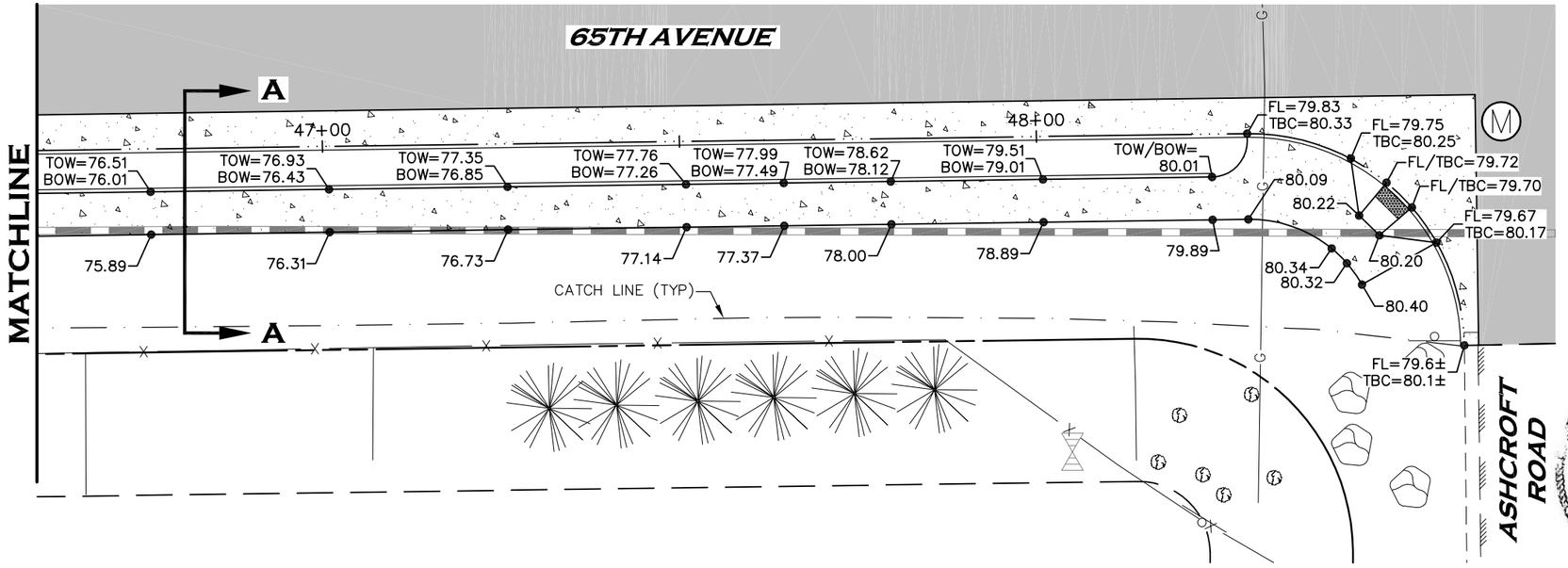


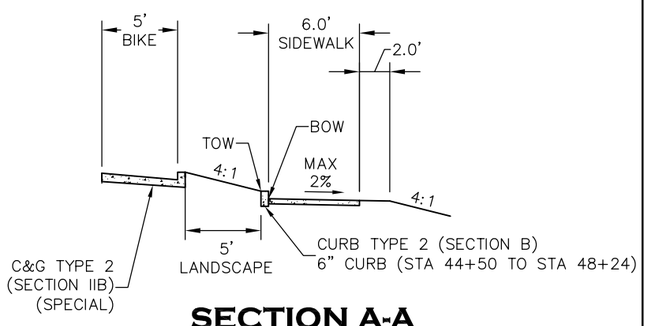




PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK





SECTION A-A
NTS

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

Computer File Information	
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Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 PLAN-DET-WALL.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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City of Greeley
City of Greeley
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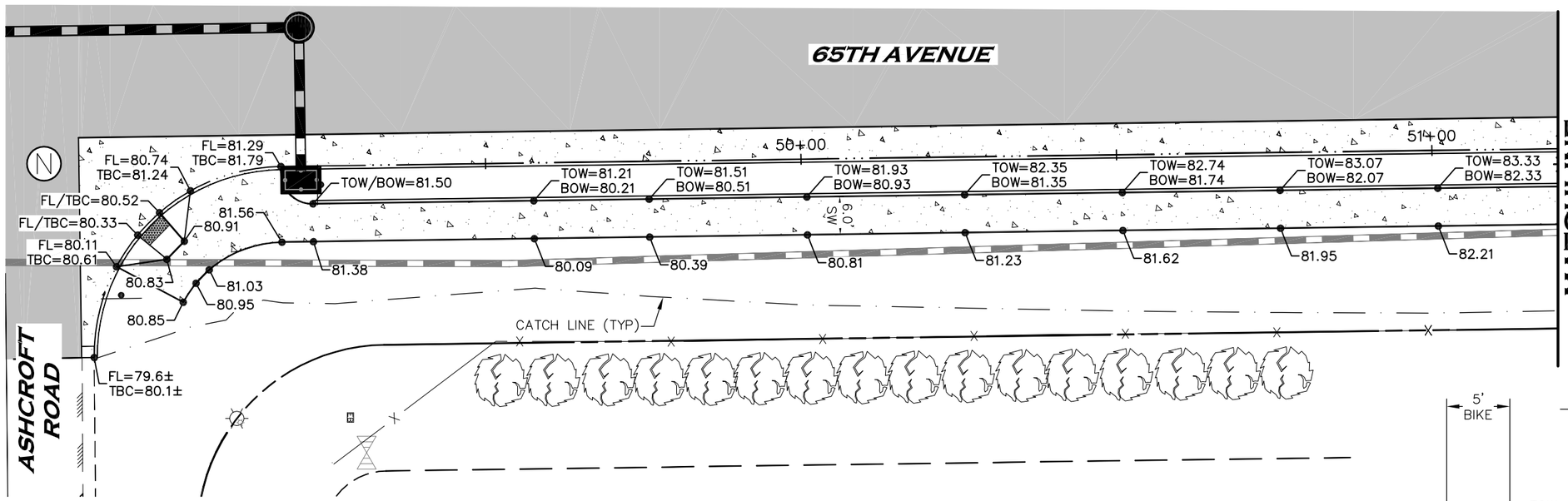
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

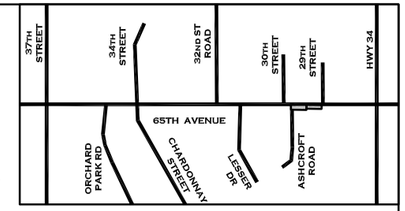
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Void:	

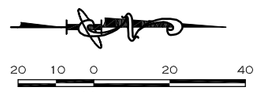
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Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 50

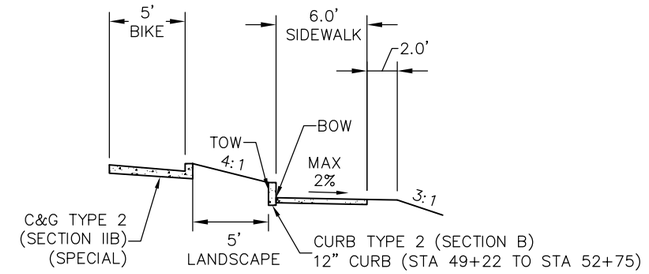




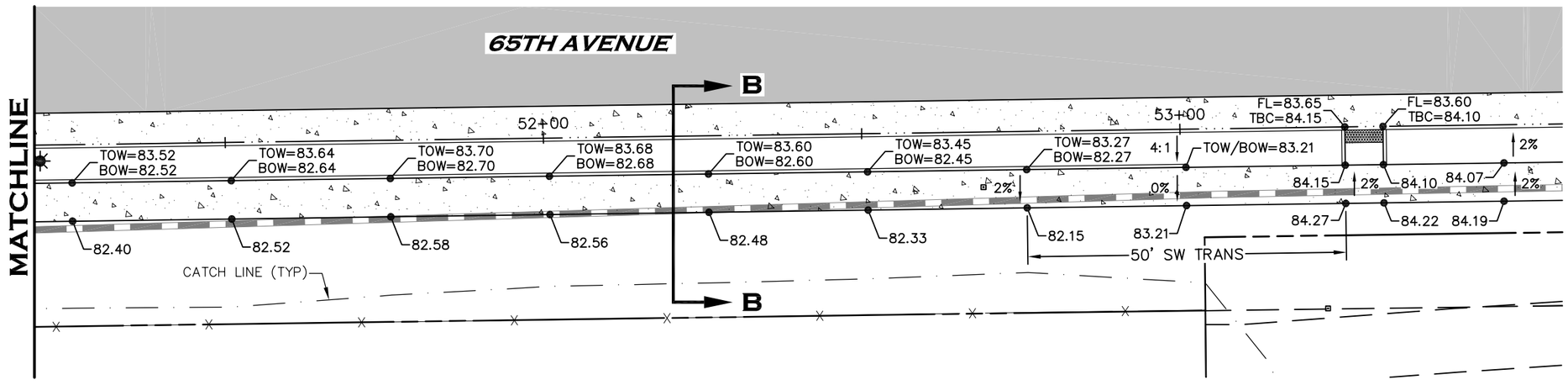


PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK



SECTION B-B
NTS



COLORADO REGISTERED MICHAEL PAUL OBERMUNDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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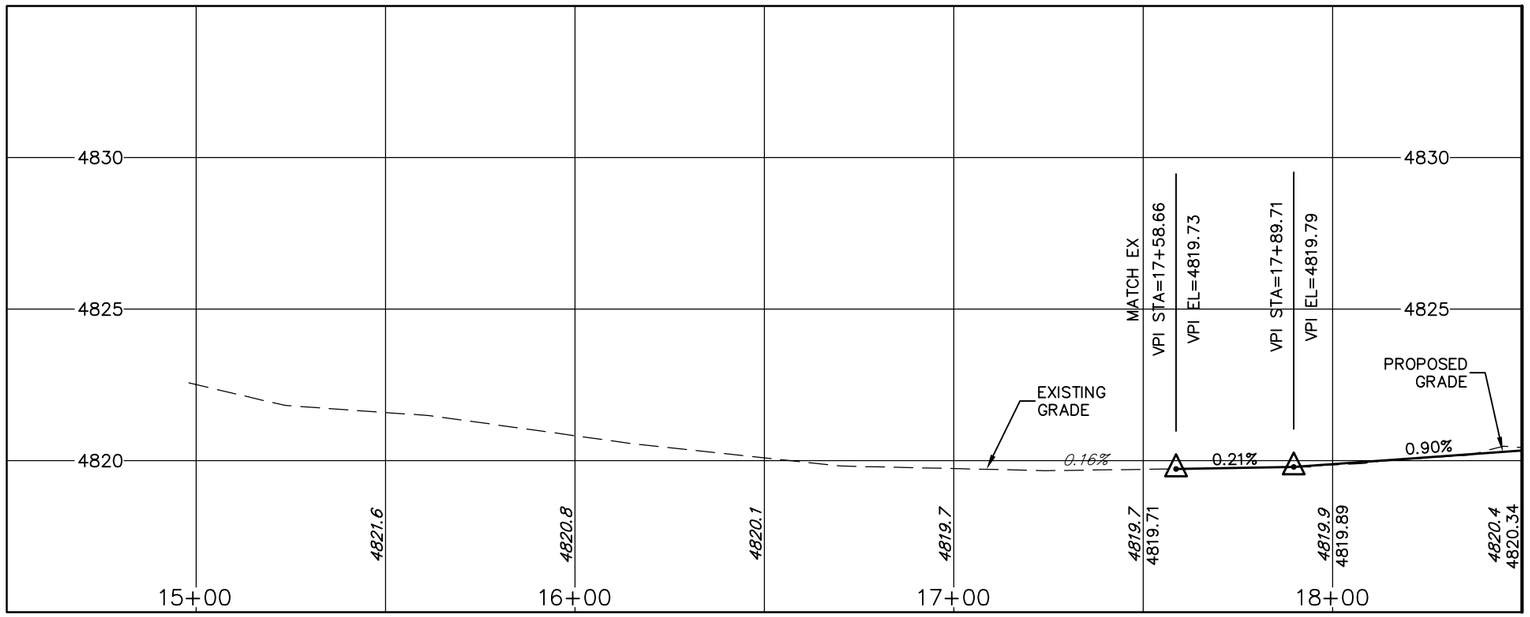
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FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

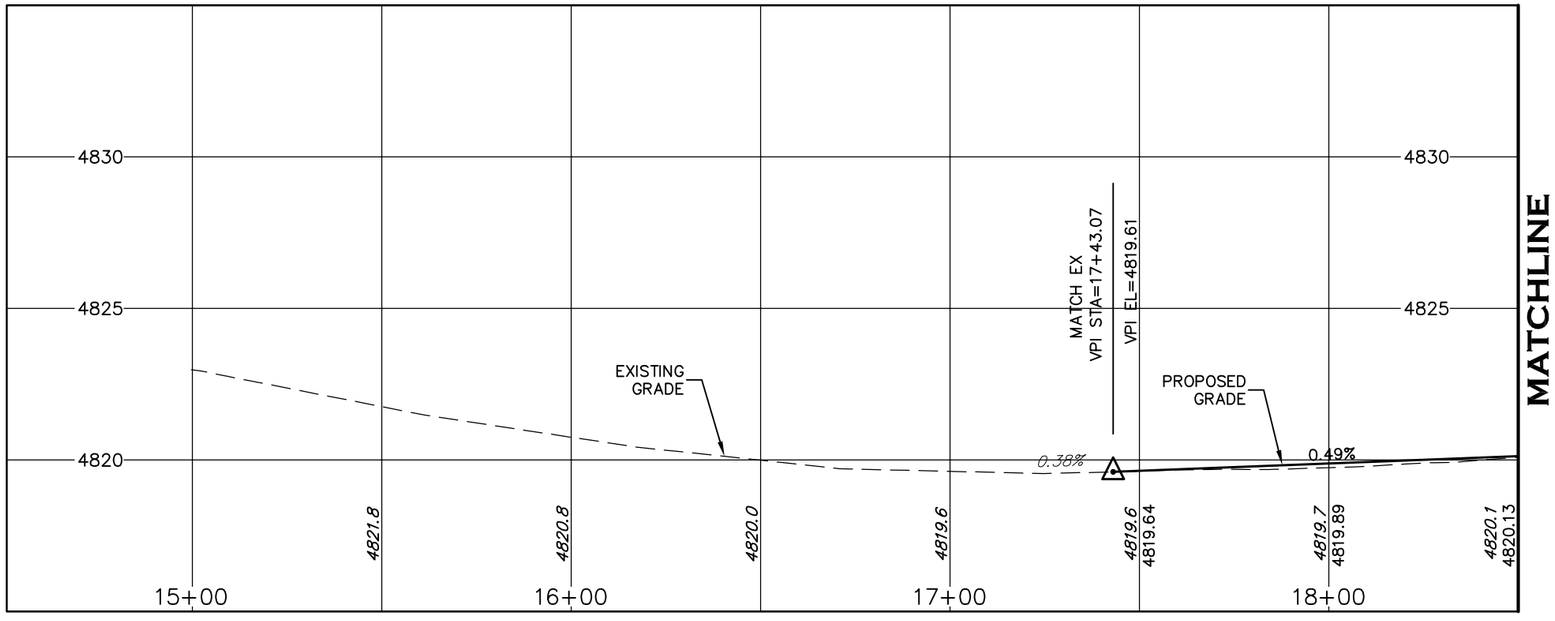
ROADWAY PLAN DETAILS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 51



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 5'

AWARDED SET

FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO

811

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 PROFILE.dwg	
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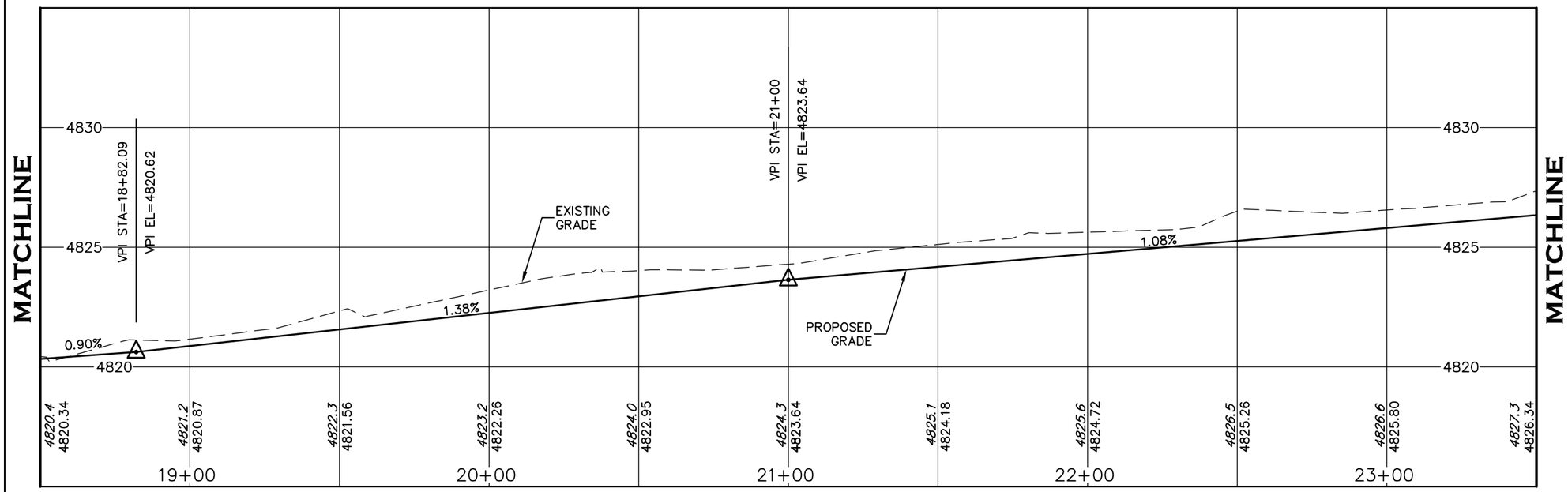
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ROADWAY PROFILE

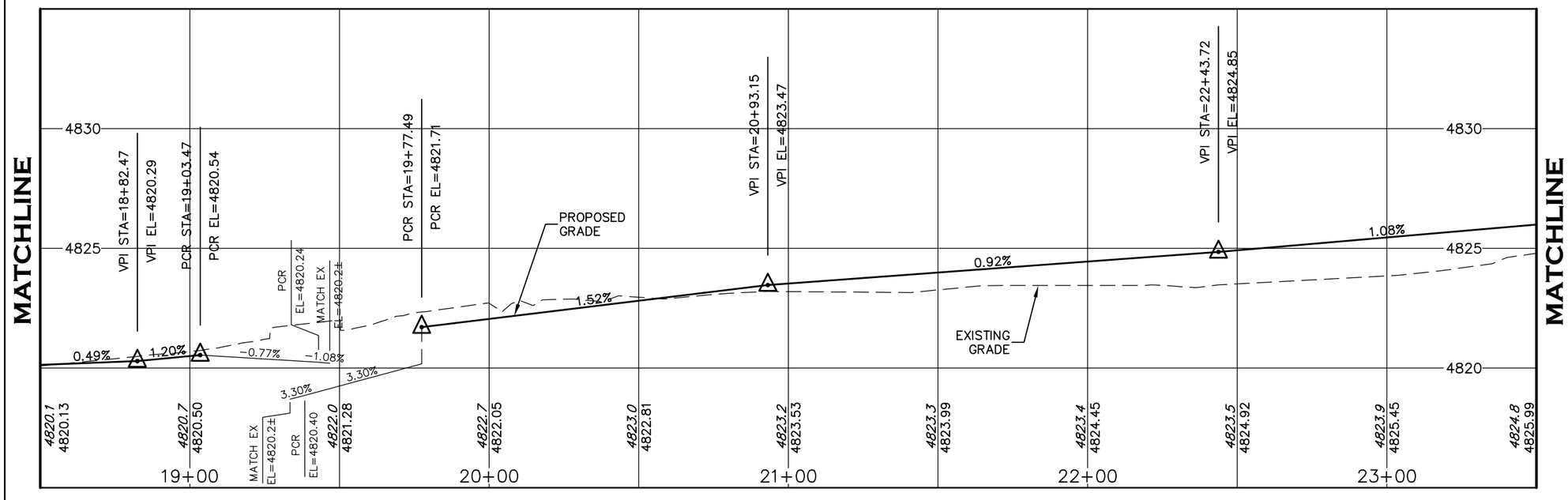
STA 15+00 TO STA 18+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 52



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 5'

AWARDED SET

FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERHANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO

811

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 PROFILE.dwg	
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City of Greeley
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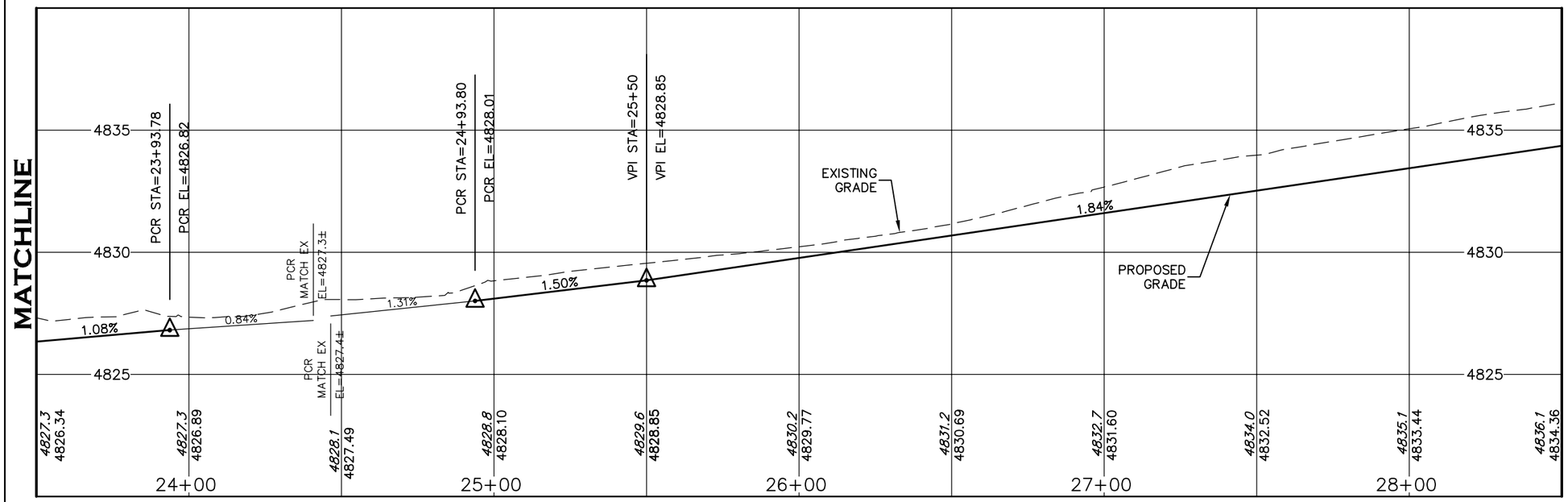
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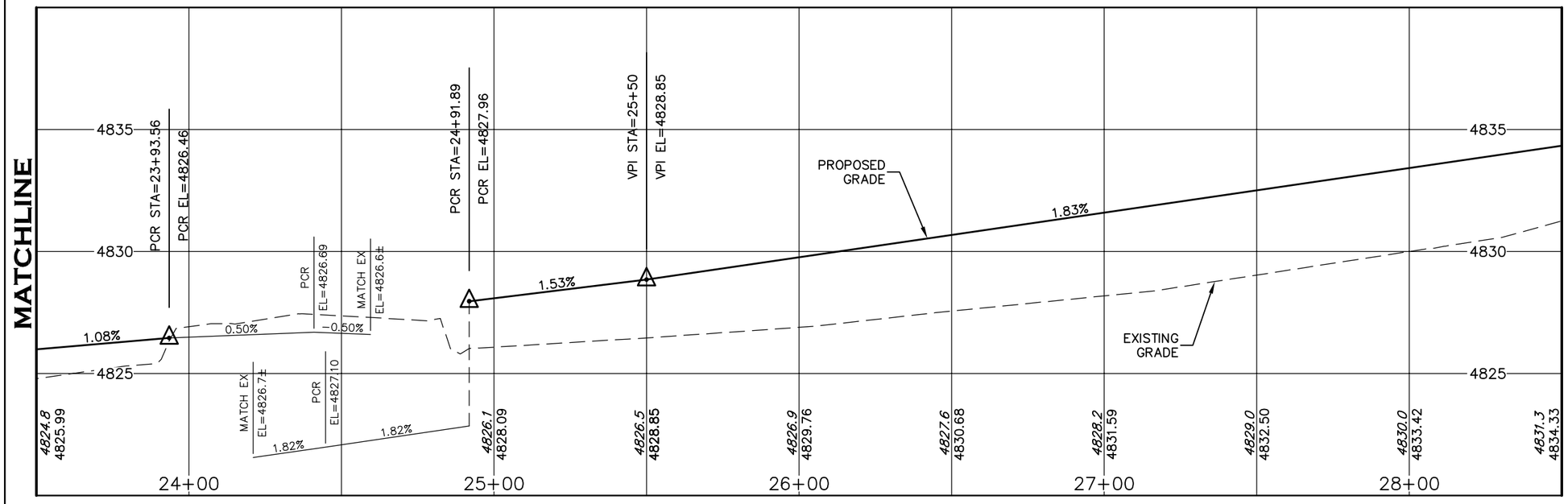
STA 18+50 TO STA 23+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 53



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

ROADWAY PROFILE
STA 23+50 TO STA 28+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

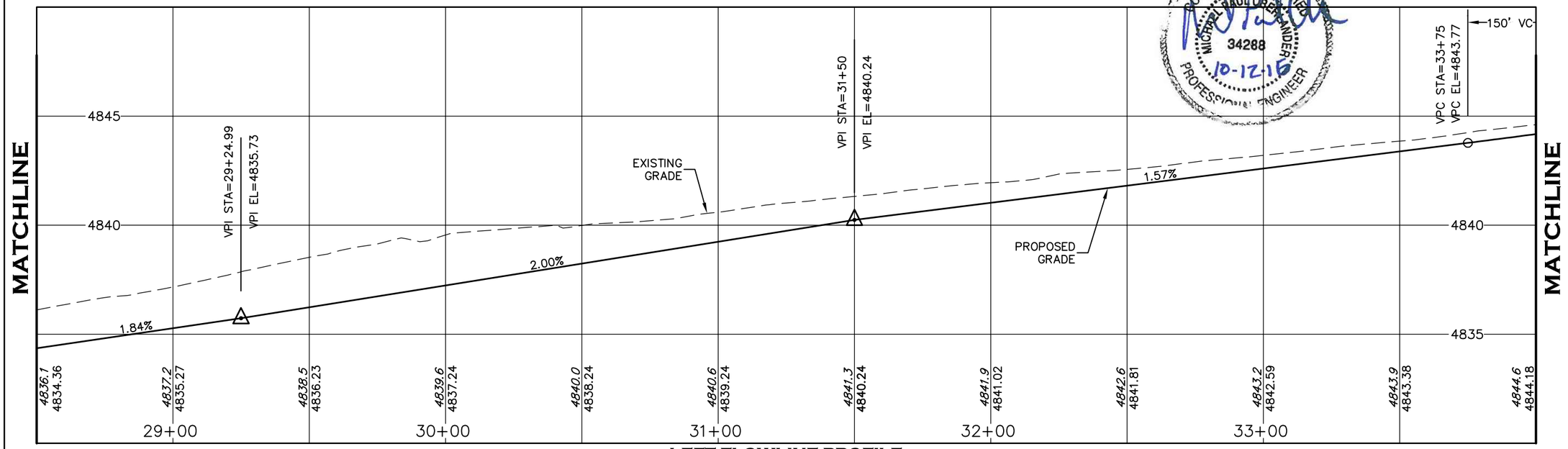
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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

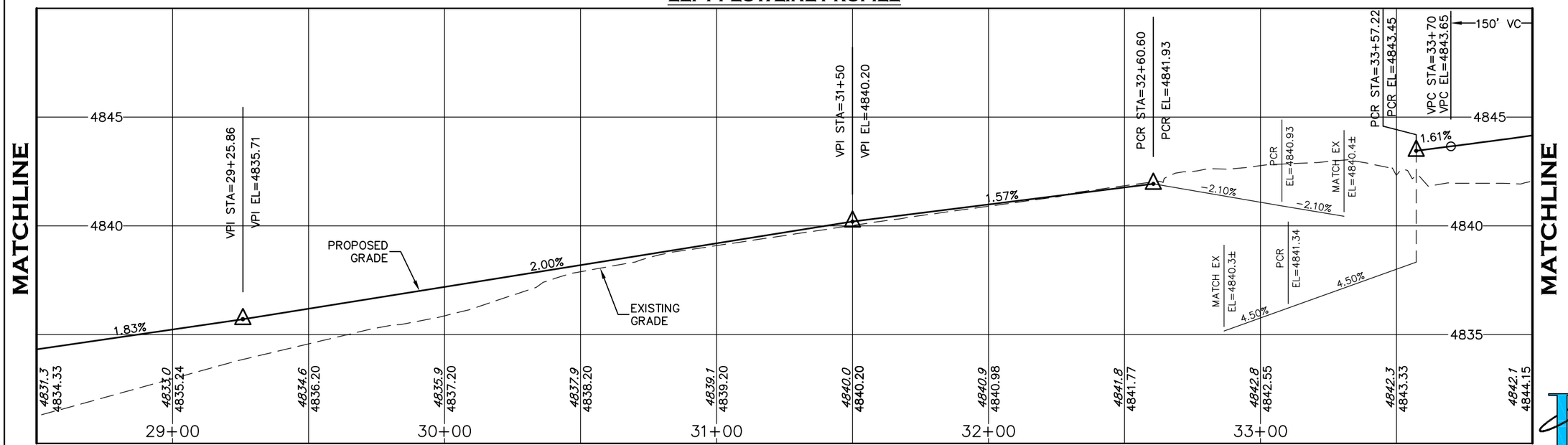
20 0 20 40
HORIZONTAL
SCALE: 1" = 40'
VERTICAL
SCALE: 1" = 5'

COLORADO REGISTERED
MICHAEL PAUL DEPENBUSCH
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

INTERWEST CONSULTING GROUP

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Creation Date: 06/10/15	Initials: JDL	
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Drawing File Name: 1138-083-03 PROFILE.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

ROADWAY PROFILE
STA 28+50 TO STA 34+00

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

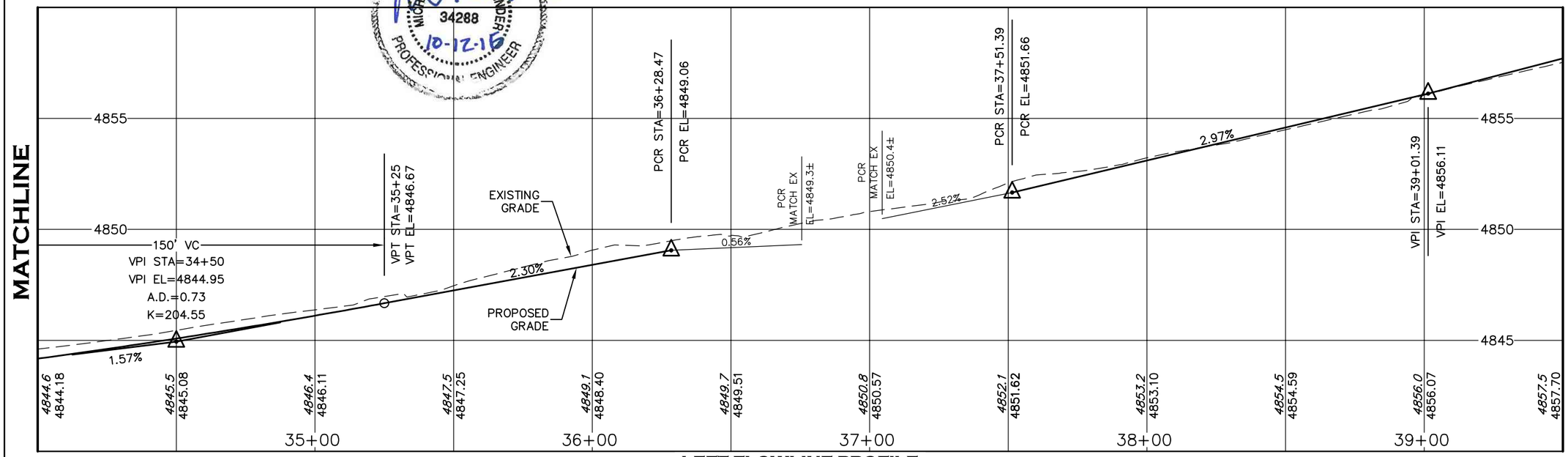
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STU M570-046
20148
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CALL UTILITY NOTIFICATION CENTER OF COLORADO
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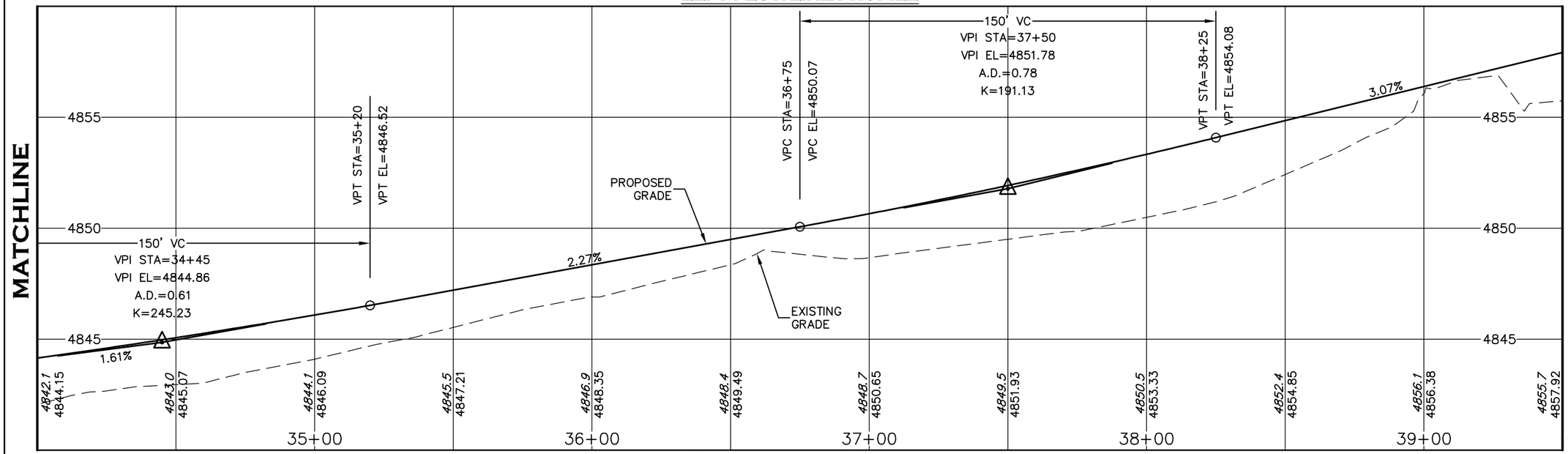
COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'

AWARDED SET
FOR CONSTRUCTION



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

INTERWEST CONSULTING GROUP

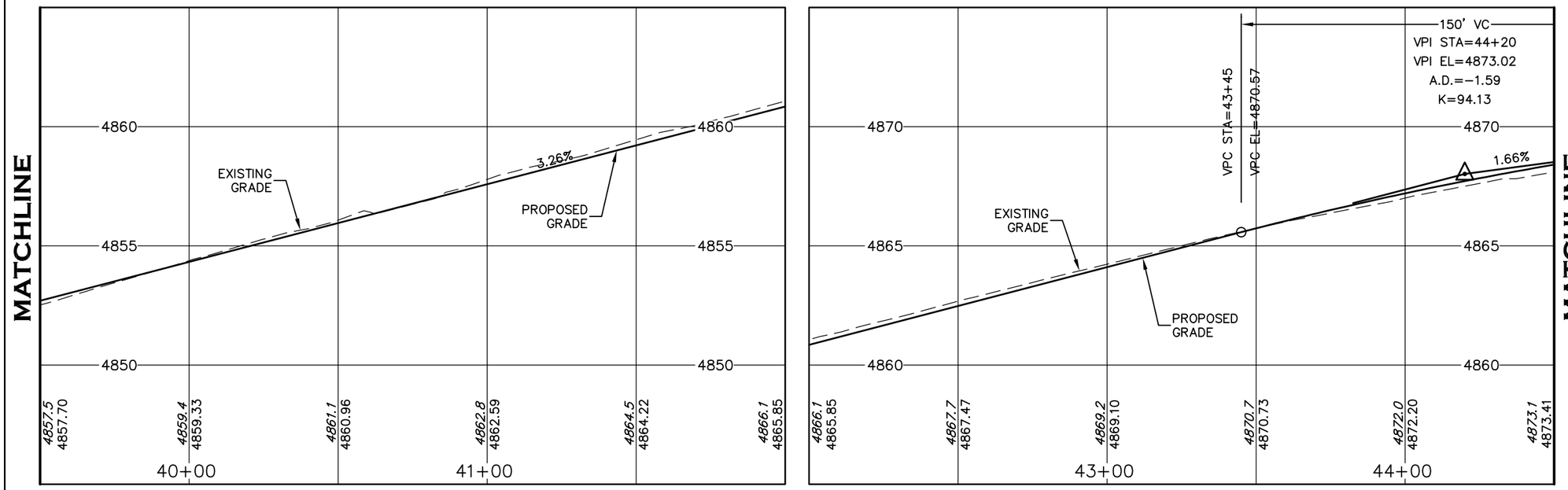
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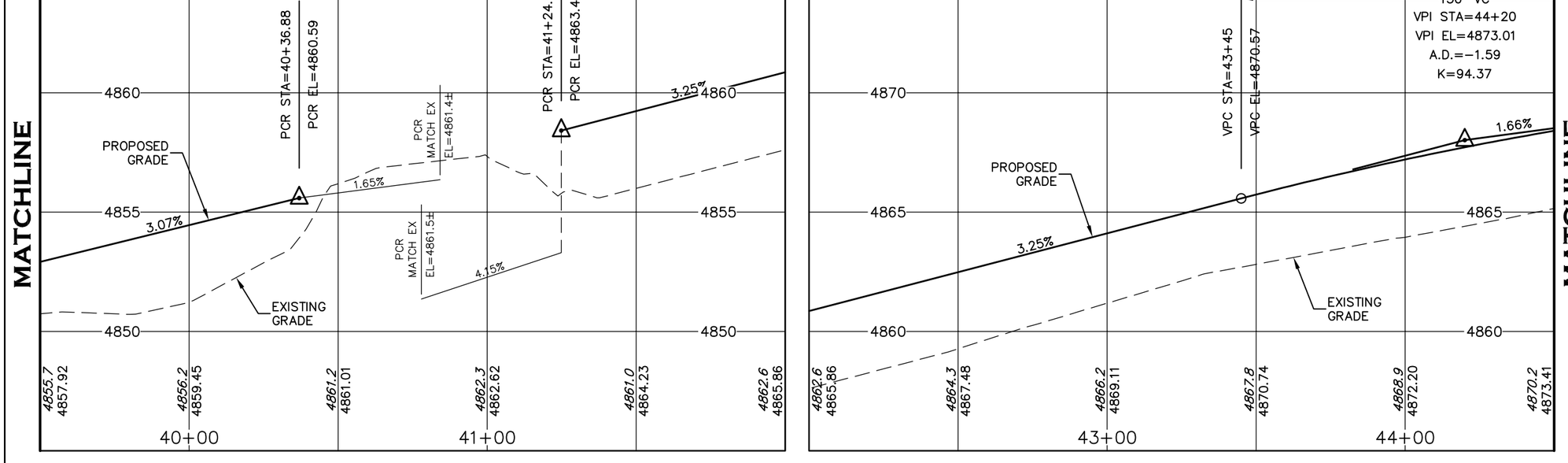
City of Greeley
City of Greeley
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Greeley, CO 80631
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10601 West 10th Street
Greeley, CO 80634
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Region 4 LHN

As Constructed	ROADWAY PROFILE	Project No./Code
No Revisions:	STA 34+00 TO STA 39+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 56
	Sheet Subset:	Subset Sheet::



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 5'

AWARDED SET

FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OSEKANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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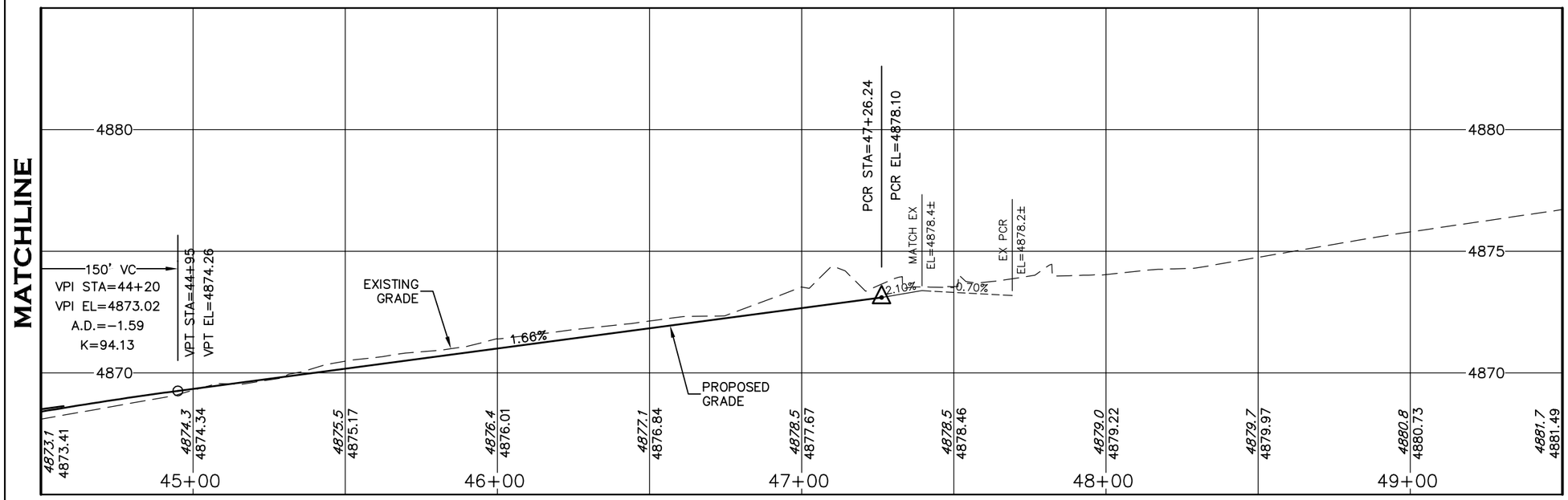
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Revised:	
Void:	

ROADWAY PROFILE

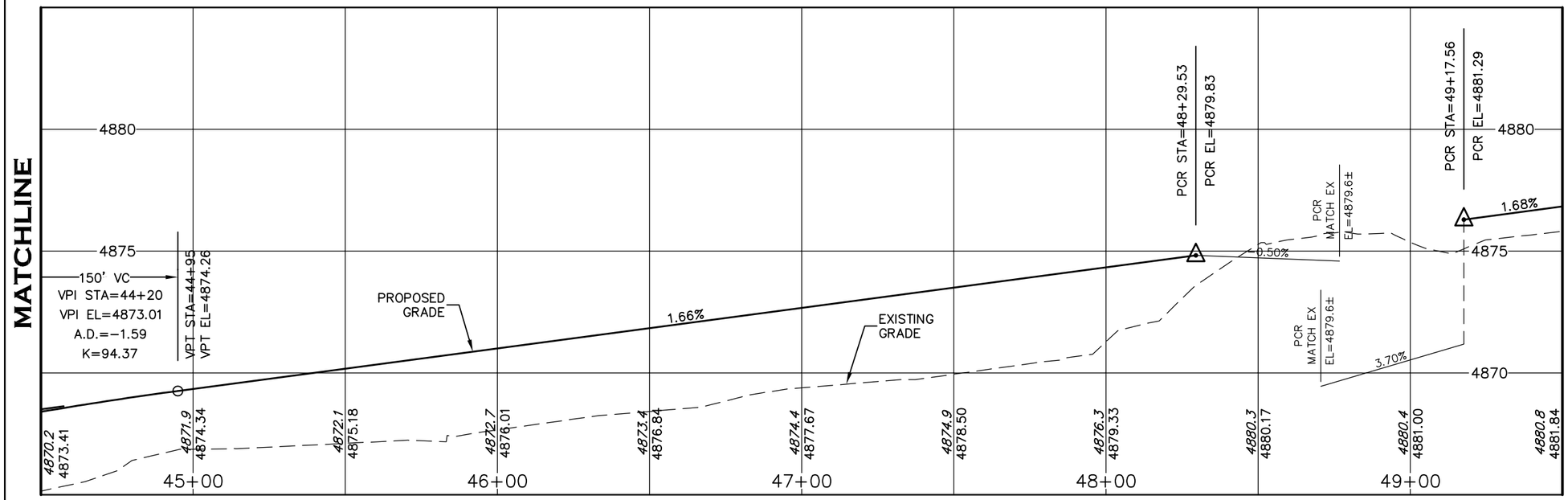
STA 39+50 TO STA 44+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 57



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

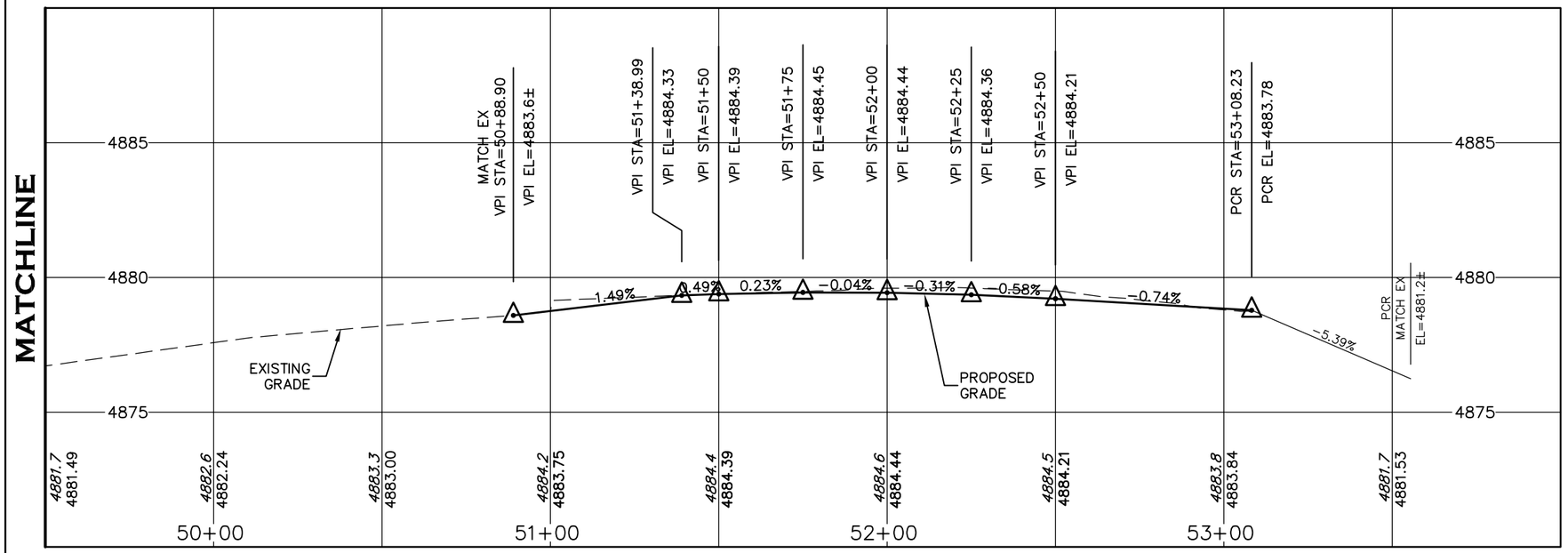
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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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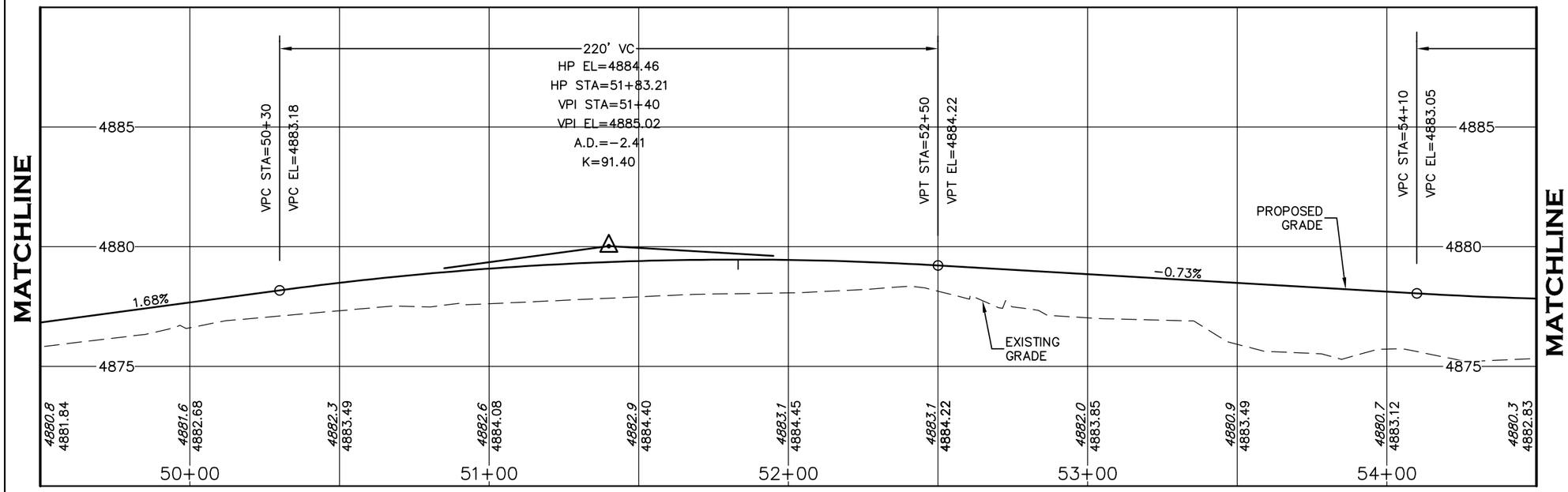
City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	ROADWAY PROFILE STA 44+50 TO STA 49+50			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 58
	Sheet Subset:	Subset Sheet::		



LEFT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OSTRANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information	
Creation Date: 06/10/15	Initials: JDL
Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 PROFILE.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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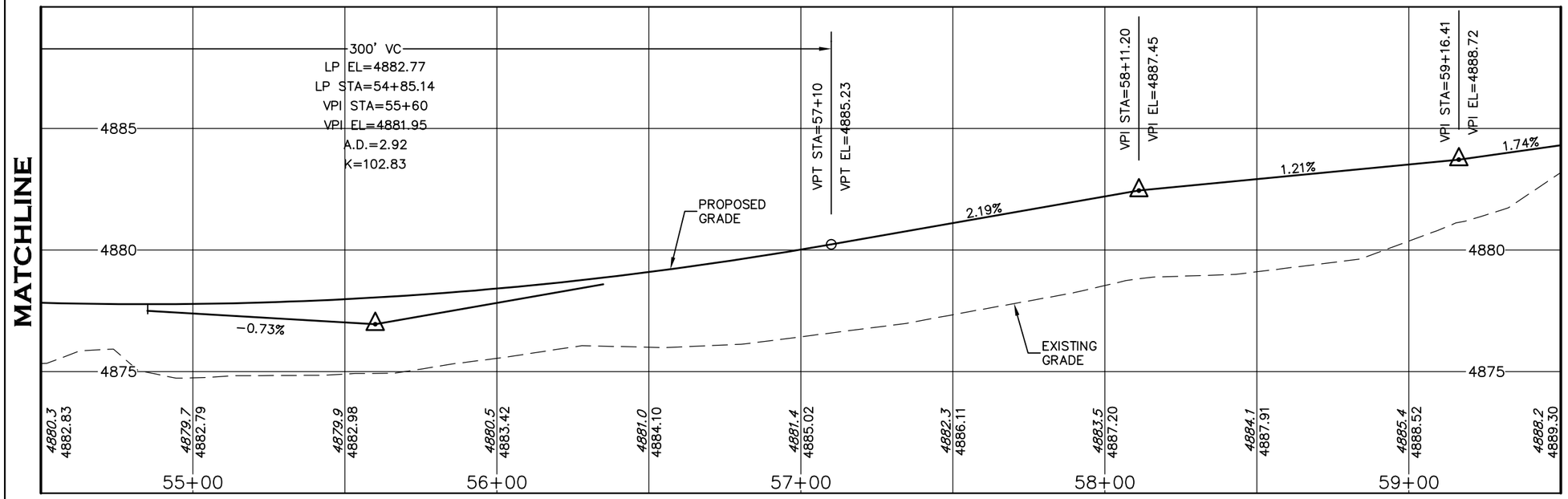
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FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

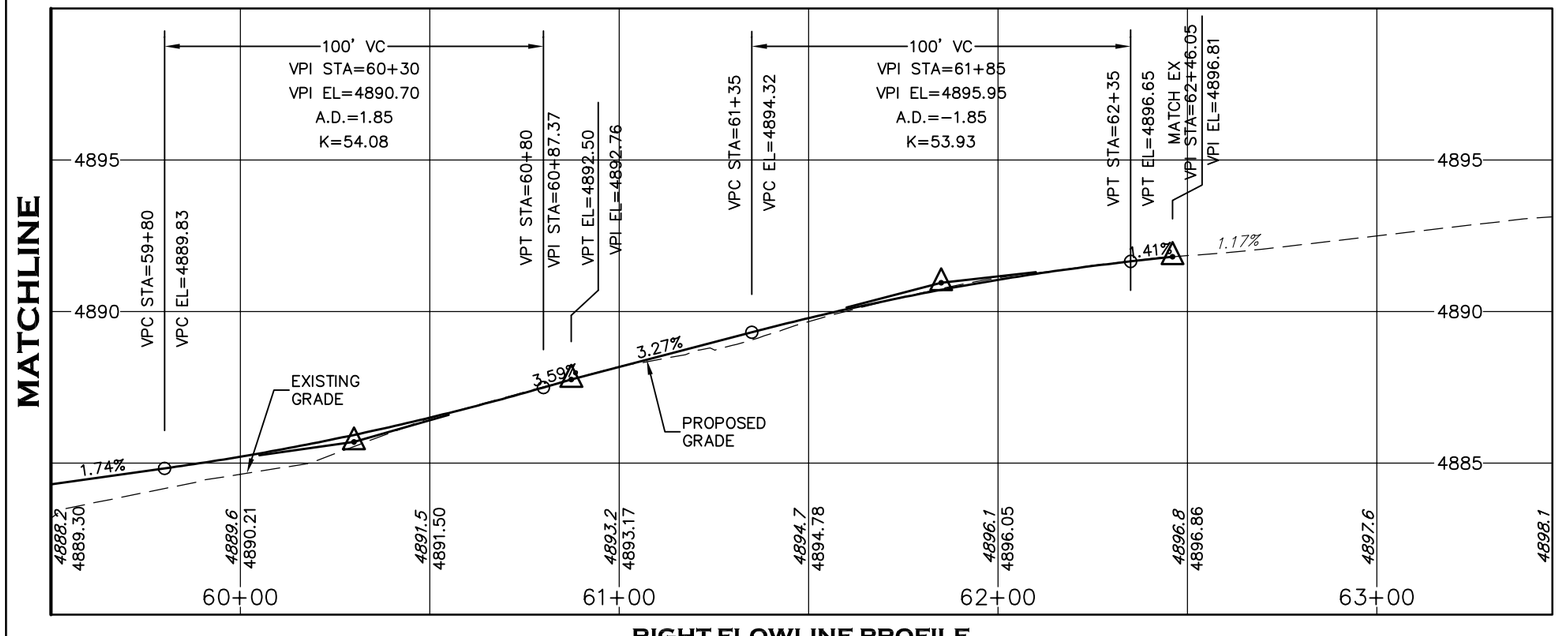
ROADWAY PROFILE
STA 49+50 TO STA 54+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 59



RIGHT FLOWLINE PROFILE



RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'

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10-12-16
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AWARDED SET
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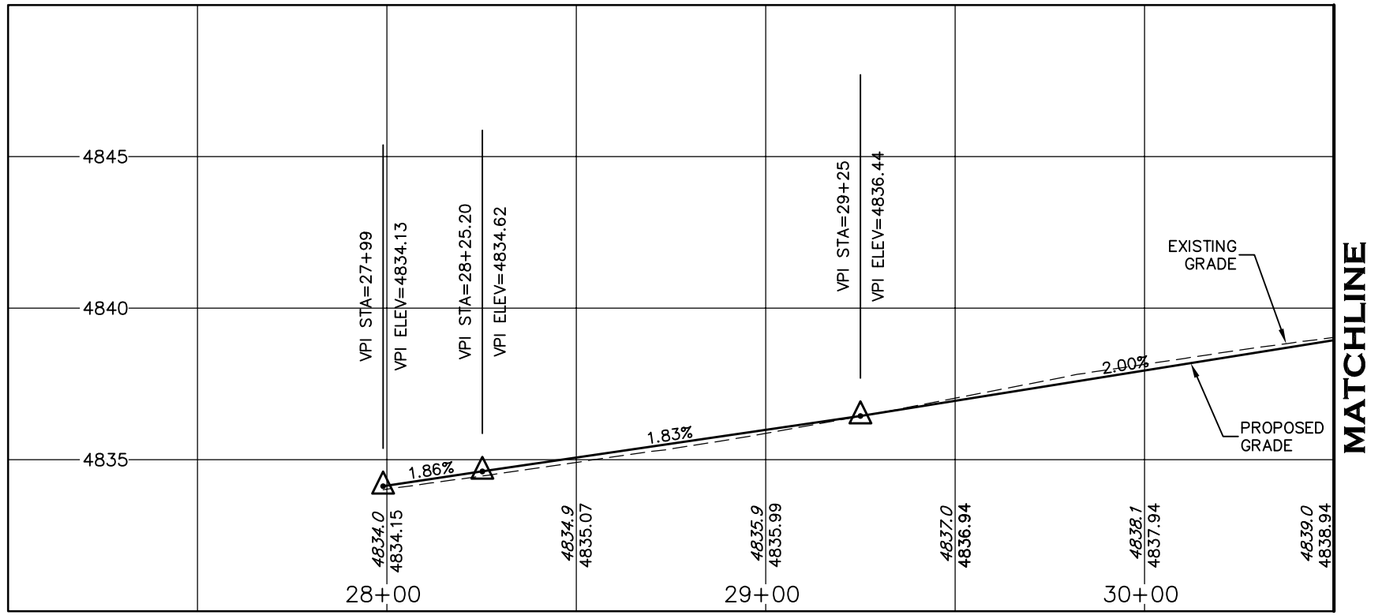
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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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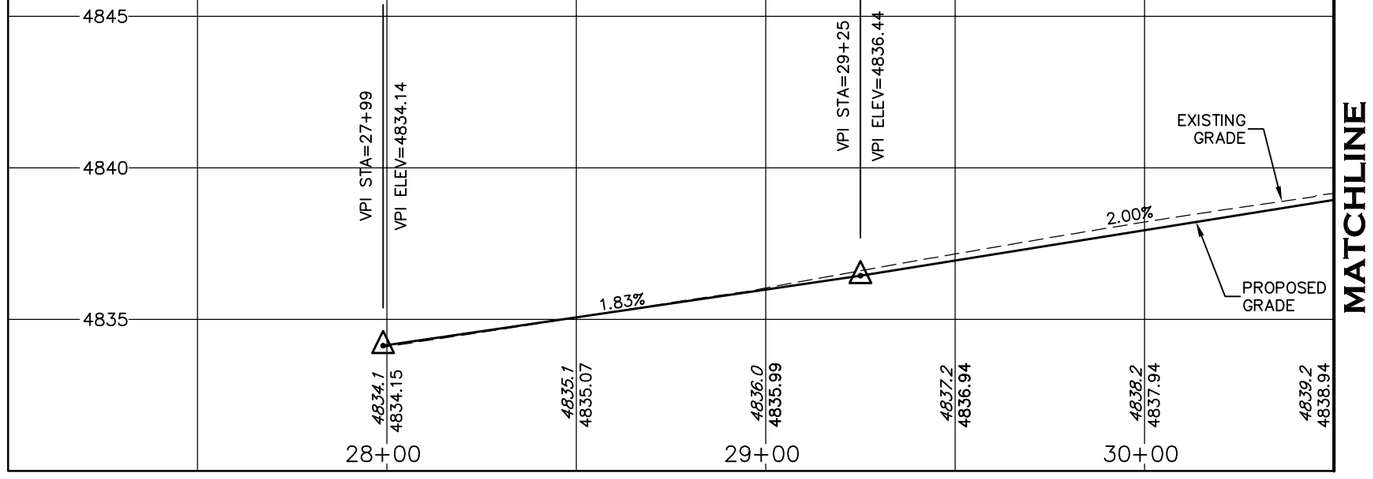
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Greeley, CO 80631
Phone: 970.350.9881

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As Constructed	ROADWAY PROFILE	Project No./Code
No Revisions:	STA 54+50 TO STA 63+00	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	
	Sheet Subset: / Subset Sheet::	SHEET NUMBER 60



MEDIAN 1
LEFT FLOWLINE PROFILE

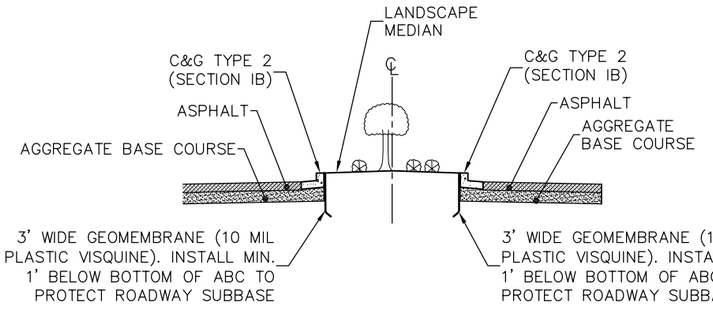


MEDIAN 1
RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

AWARDED SET
FOR CONSTRUCTION

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10-12-16
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LANDSCAPE MEDIAN DETAIL
NTS

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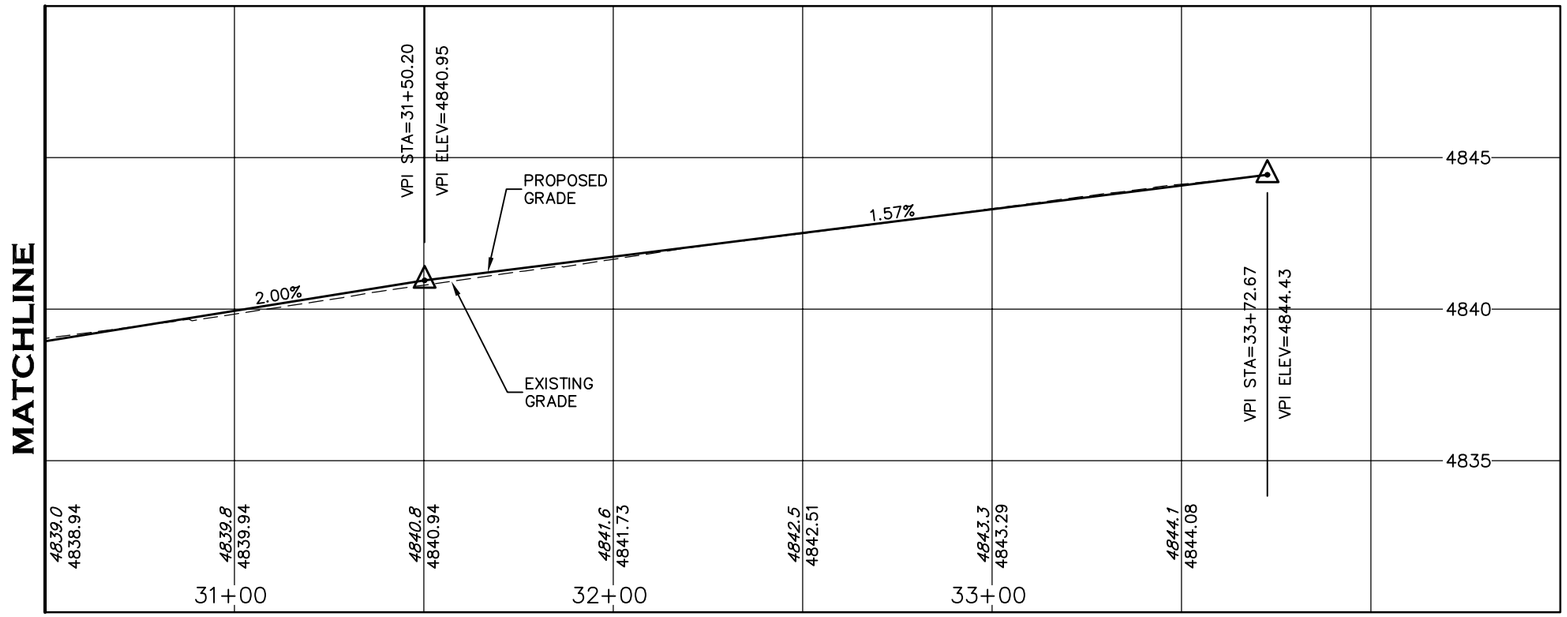
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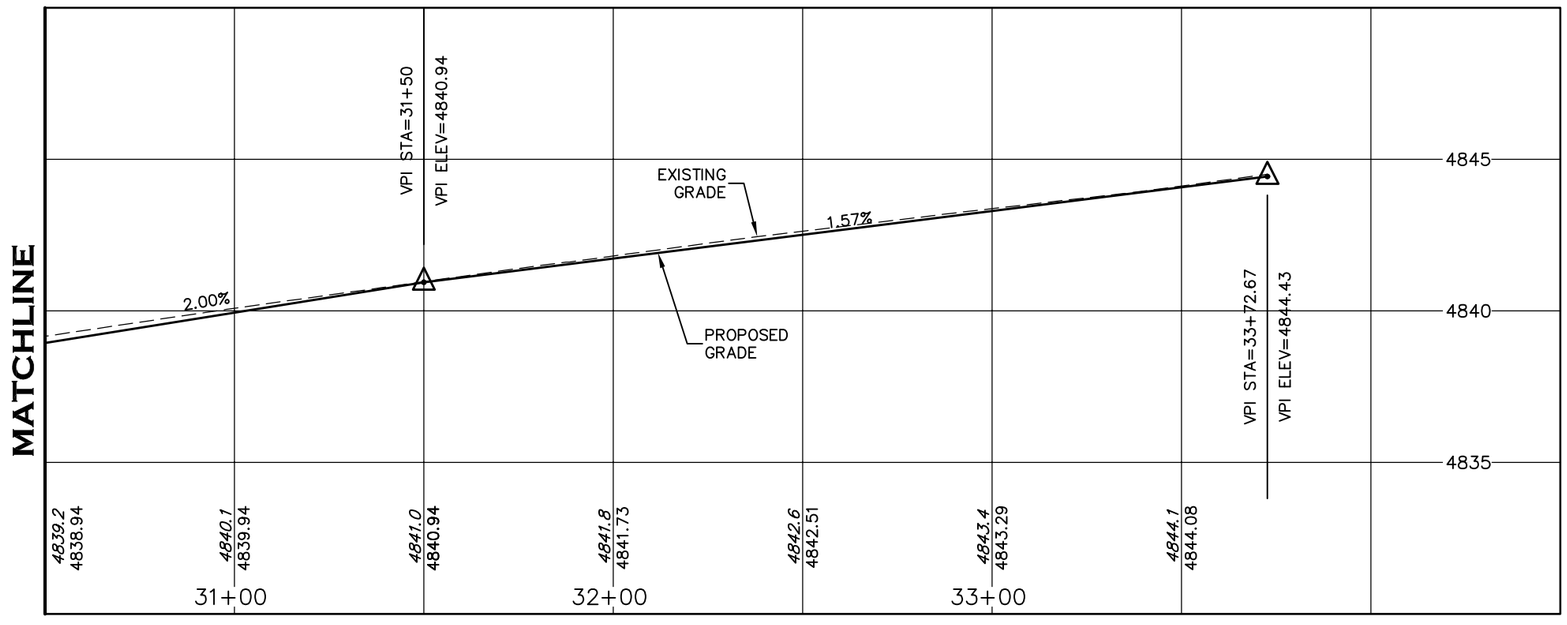
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Region 4 LHN

As Constructed	65TH AVE. MEDIAN 1 PROFILE			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 61



MEDIAN 1
LEFT FLOWLINE PROFILE



MEDIAN 1
RIGHT FLOWLINE PROFILE

20 0 20 40
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OLEXANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 MEDIAN PROFILES.dwg	
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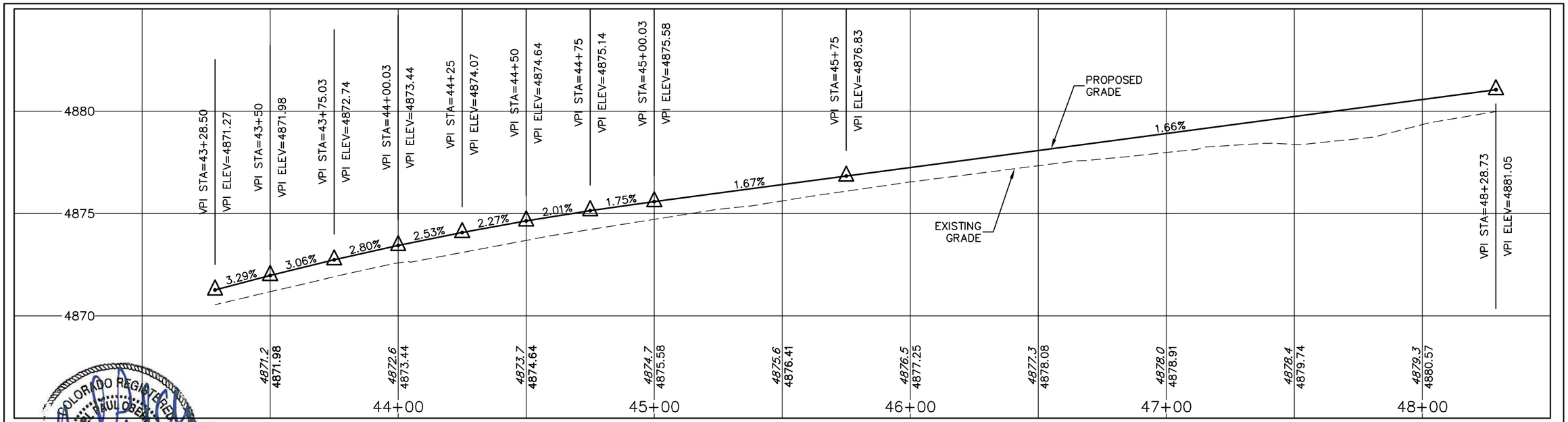
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No Revisions:	
Revised:	
Void:	

65TH AVE. MEDIAN 1
PROFILE

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
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SHEET NUMBER 62

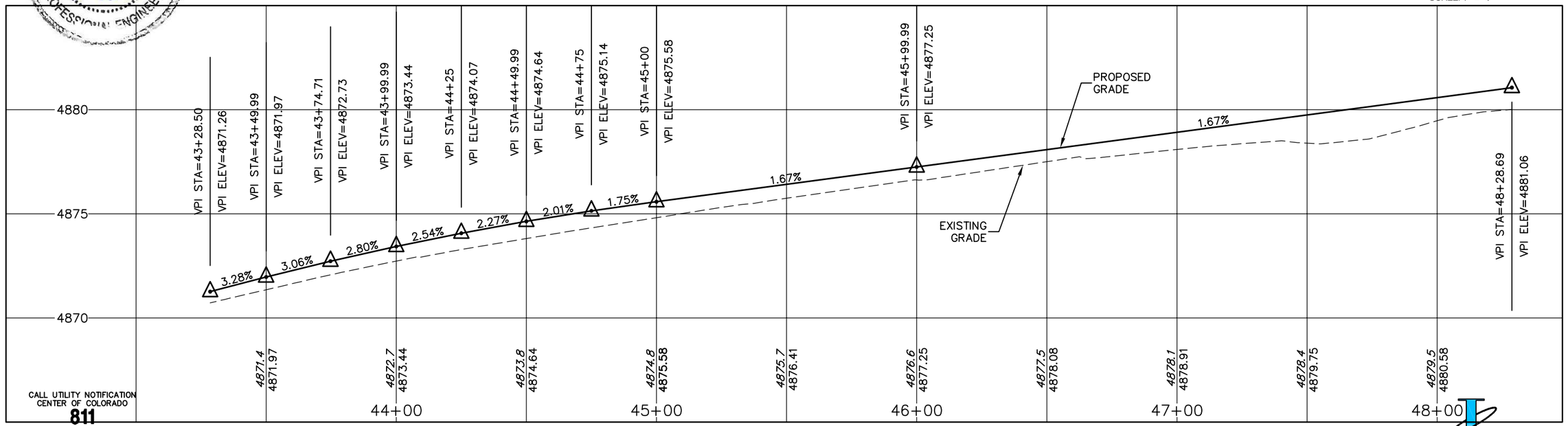


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10-12-16
PROFESSIONAL ENGINEER

MEDIAN 2
LEFT FLOWLINEPROFILE

AWARDED SET
FOR CONSTRUCTION

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



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MEDIAN 2
RIGHT FLOWLINEPROFILE

INTERWEST CONSULTING GROUP

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No Revisions:
Revised:
Void:

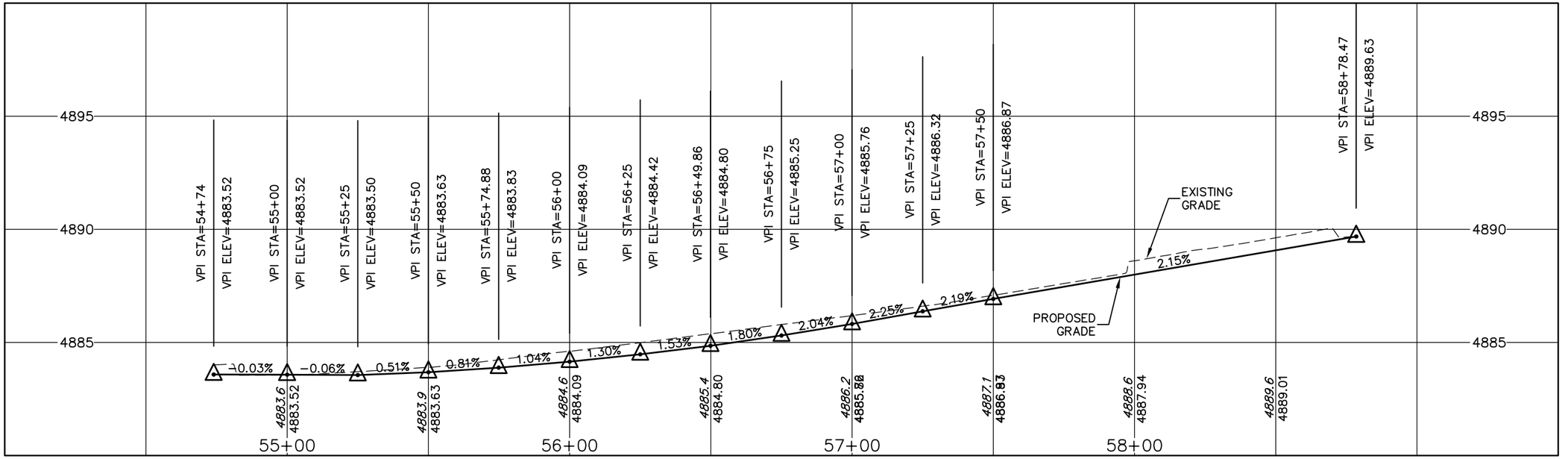
65TH AVE. MEDIAN 2
PROFILE

Designer: J. LOFTON
Detailer: S. WEIER
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER 63

20 0 20 40

HORIZONTAL
SCALE: 1" = 40'
VERTICAL
SCALE: 1" = 4'



MEDIAN 3
RIGHT FLOWLINE PROFILE

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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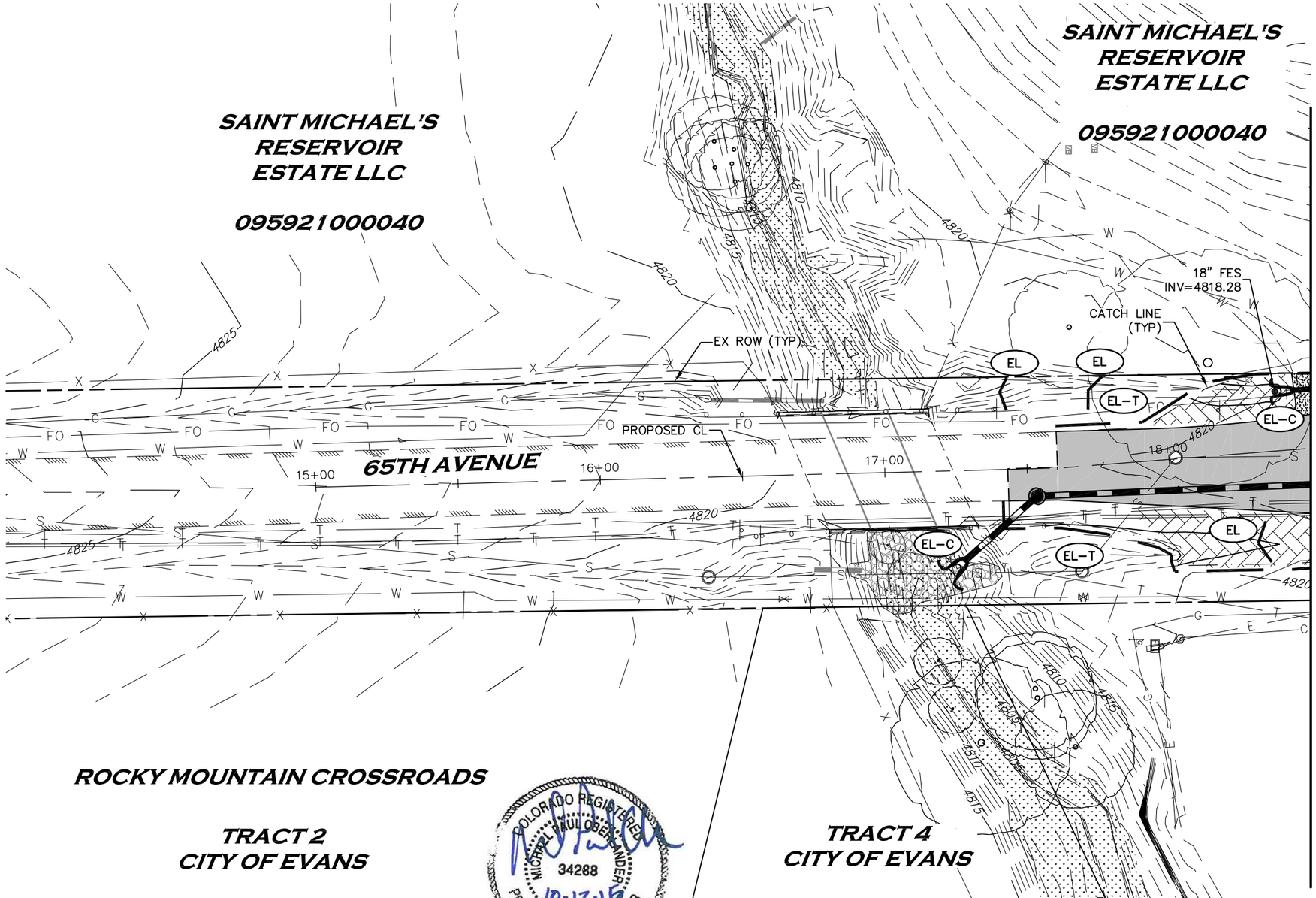
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Phone: 970.350.9881

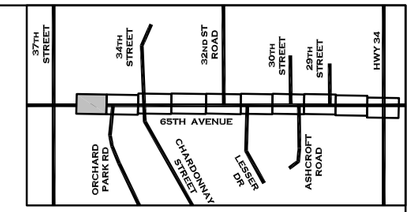
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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

65TH AVE. MEDIAN 3 PROFILE			
Designer: J. LOFTON			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 64





20 10 0 20 40

SCALE: 1" = 40'

CONTRACTOR TO PROVIDE VEHICLE TRACKING PAD(S) & CONCRETE WASHOUT(S) AS NECESSARY

LEGEND

- FLOW DIRECTION
- EX STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED INLET
- EX 1' CONTOUR
- 4810 EX 5' CONTOUR
- 1' CONTOUR
- 4810 5' CONTOUR
- EL-C EROSION LOG CULVERT INLET / OUTLET PROTECTION
- EL-T EROSION LOG TOE OF SLOPE PROTECTION
- EL EROSION LOG (SWALE)
- EL-A EROSION LOG DROP INLET PROTECTION
- AB AGGREGATE BAG CURB CHECK
- IP-1 INLET PROTECTION (TYPE I OR TYPE II)
- SOIL RETENTION BLANKET (ALL SLOPES 4:1 OR GREATER)
- EX WETLANDS (NO DISTURBANCE THIS PROJECT)

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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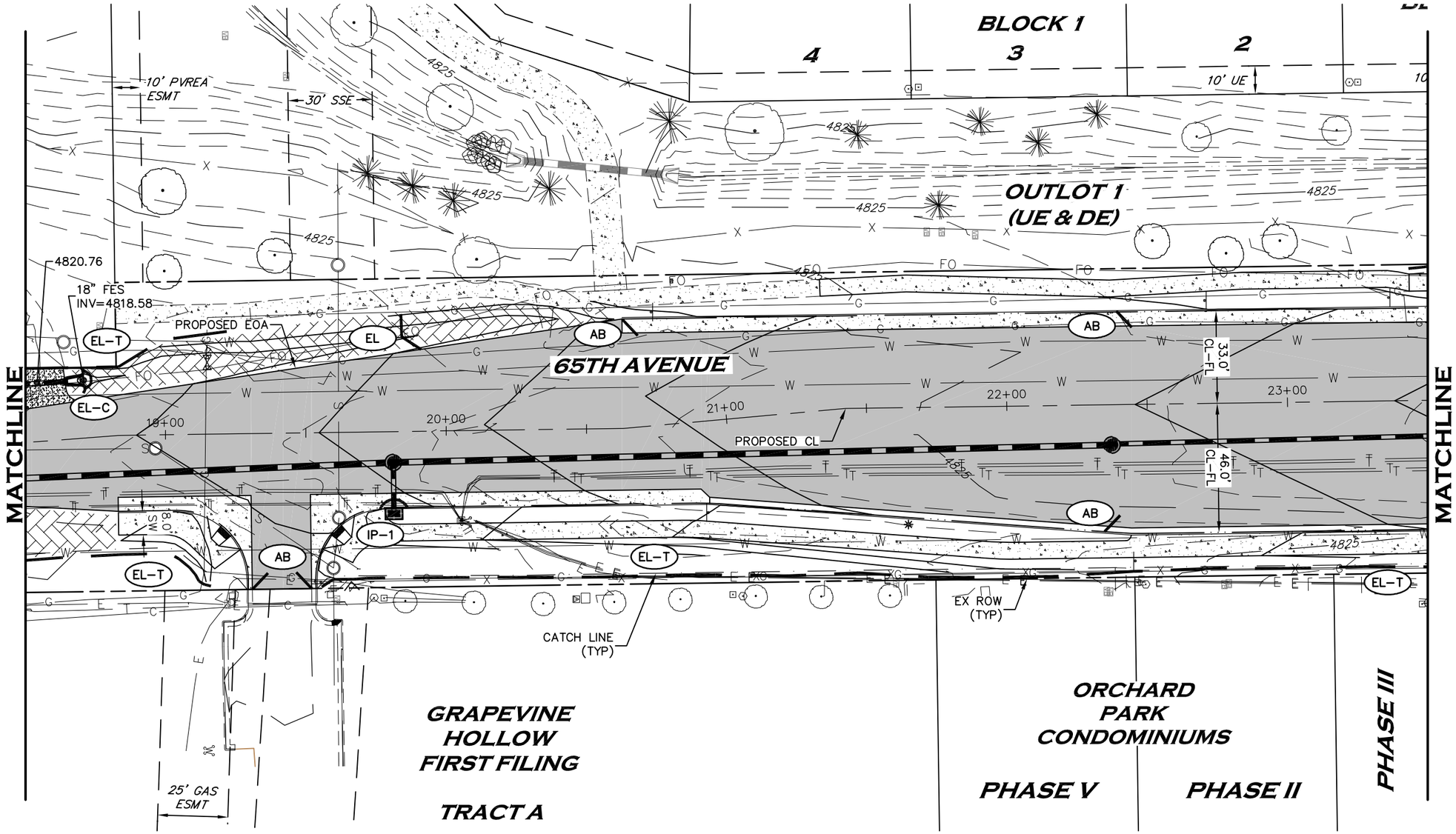
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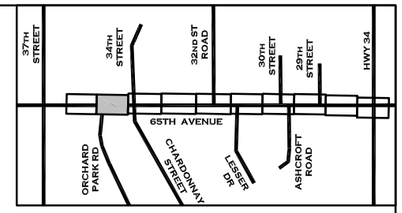
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Acad Ver. 2007	Scale: 1"=40' Units: ENGLISH				

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As Constructed	GRADING & EROSION CONTROL PLAN			Project No./Code
No Revisions:	STA 15+00 TO STA 18+50			STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 65





20 10 0 20 40

SCALE: 1" = 40'

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MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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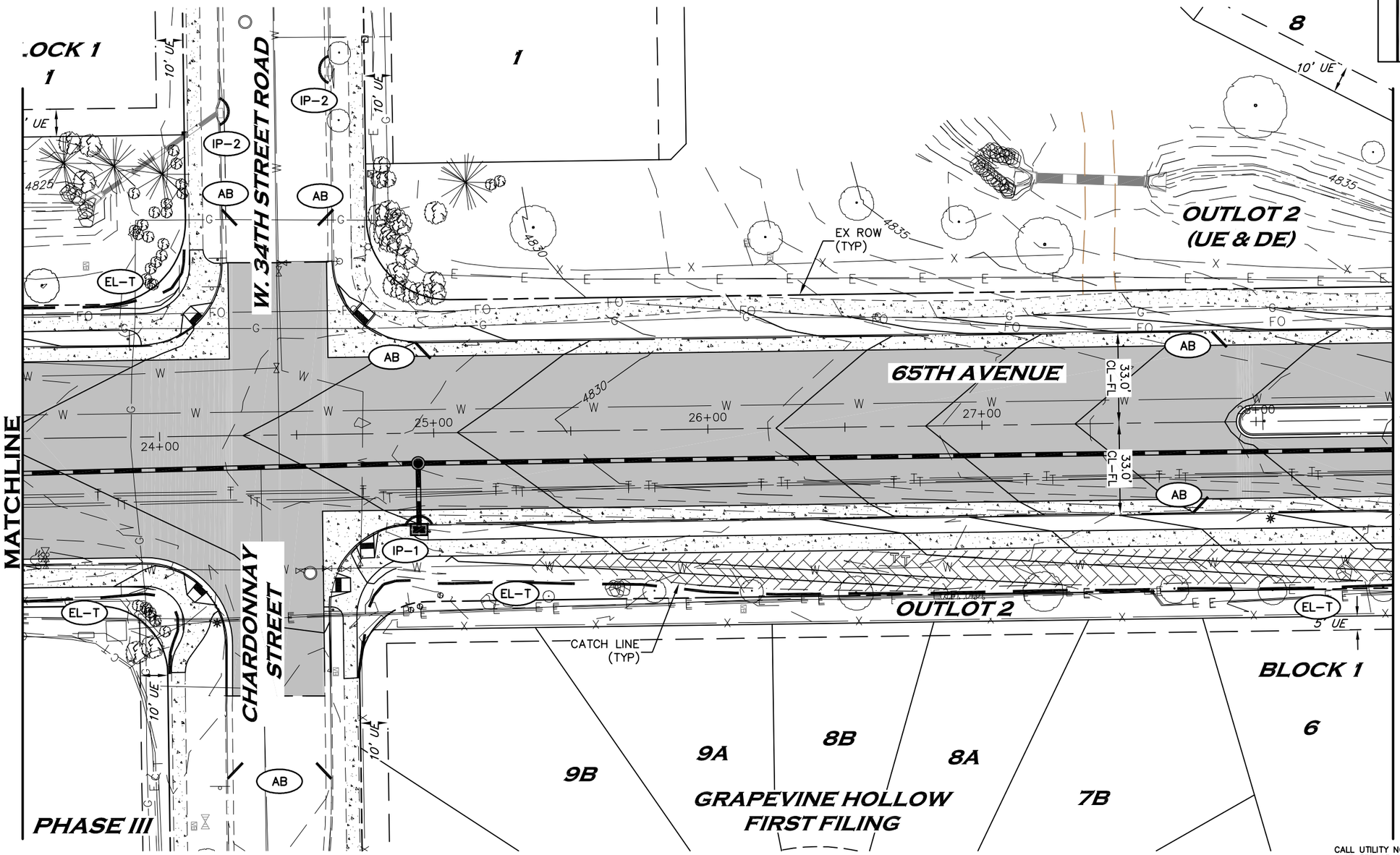
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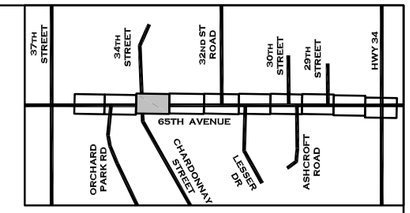
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As Constructed	GRADING & EROSION CONTROL PLAN	Project No./Code
No Revisions:	STA 18+50 TO STA 23+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 66
	Sheet Subset:	Subset Sheet::





20 10 0 20 40
SCALE: 1" = 40'

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MICHAEL PAUL OBERLANDER
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PROFESSIONAL ENGINEER

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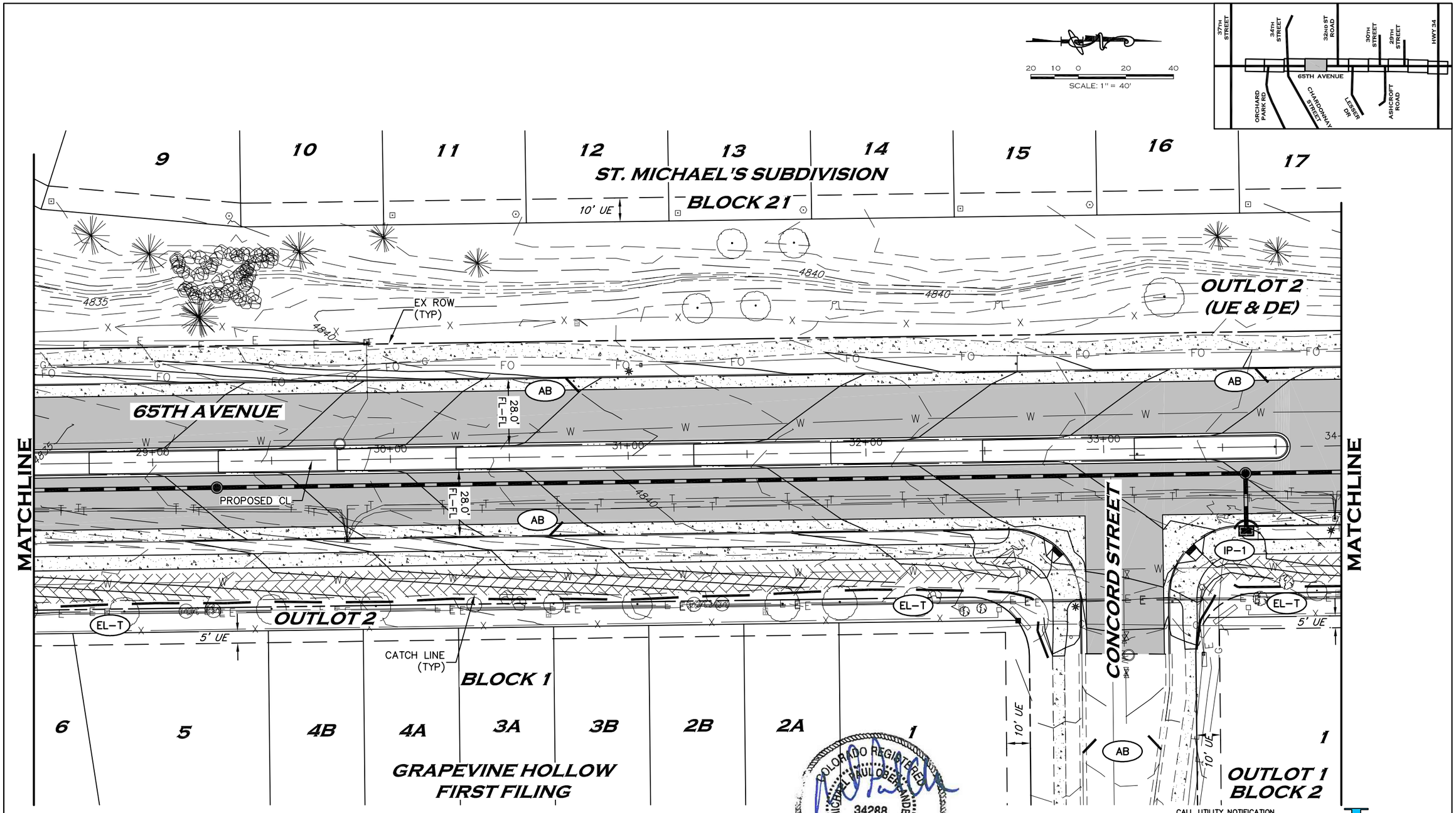
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As Constructed	GRADING & EROSION CONTROL PLAN STA 23+50 TO STA 28+50			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 67
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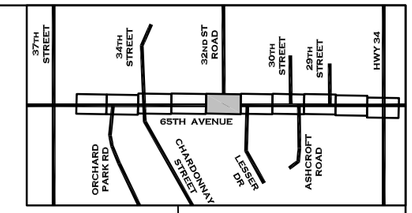
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No Revisions:	STA 28+50 TO STA 34+00			STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
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COLORADO REGISTERED
MICHAEL PAUL OBERSANDER
34288
10-12-16
PROFESSIONAL ENGINEER

20 10 0 20 40
SCALE: 1" = 40'



17 18 19 20
ST. MICHAEL'S SUBDIVISION
BLOCK 21
OUTLOT 2 (UE & DE)
10' UE
1 2 3
ST. MICHAEL'S SUBDIVISION
BLOCK 24
10' UE
W. 32ND STREET ROAD
75' PUBLIC SERVICE CO ESMT
IP-2
AB
EL-T
EL-A
TYPE C INLET
RIM=4851.5
INV=4847.6
24" RCP
4845
4850
4855
OHE
PROPOSED CL
35+00
36+00
37+00
38+00
39+00
33.0' CL-FL
46.0' CL-FL
MATCHLINE
65TH AVENUE
CATCH LINE (TYP)
20' UE
OUTLOT 1
5' UE
BLOCK 2
EX ROW (TYP)
EXISTING ROW
1 2A 2B 3 3
PUBLIC SERVICE CO OF COLORADO
BLOCK 1
27
EX IRRIGATION LINE (APPROX. LOCATION) SEE NOTE 1

NOTE:

1. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

AWARDED SET
FOR CONSTRUCTION

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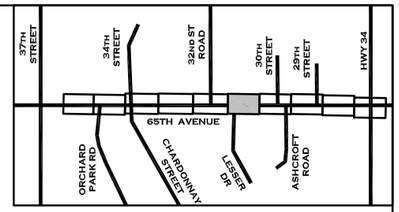
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Greeley, CO 80631
Phone: 970.350.9881

CDOT
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Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	GRADING & EROSION CONTROL PLAN	Project No./Code
No Revisions:	STA 34+00 TO STA 39+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	
	Sheet Subset: Subset Sheet::	SHEET NUMBER 69

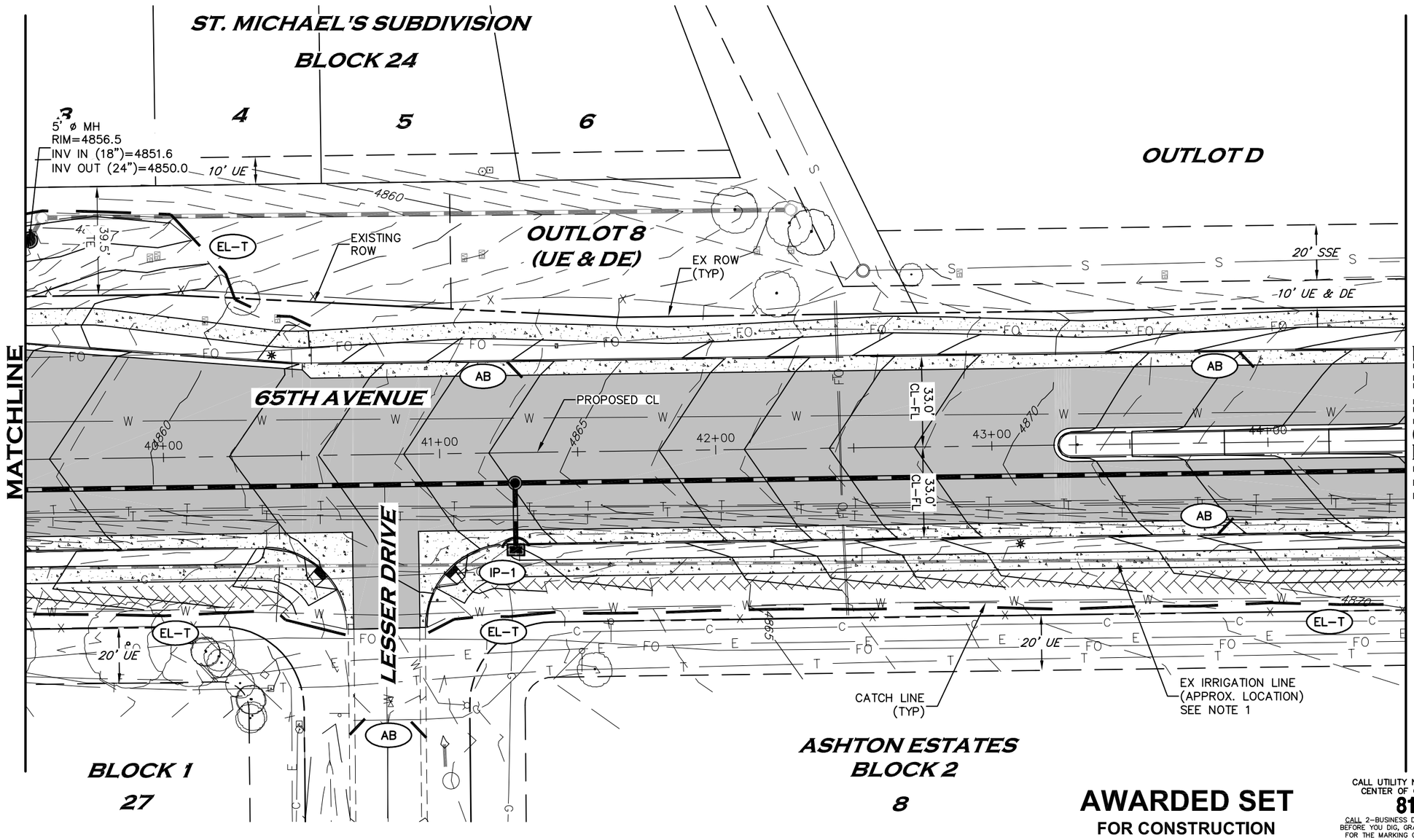
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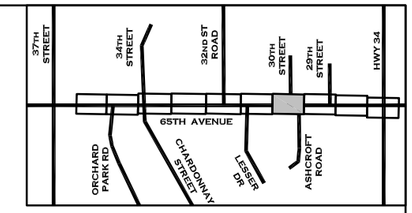
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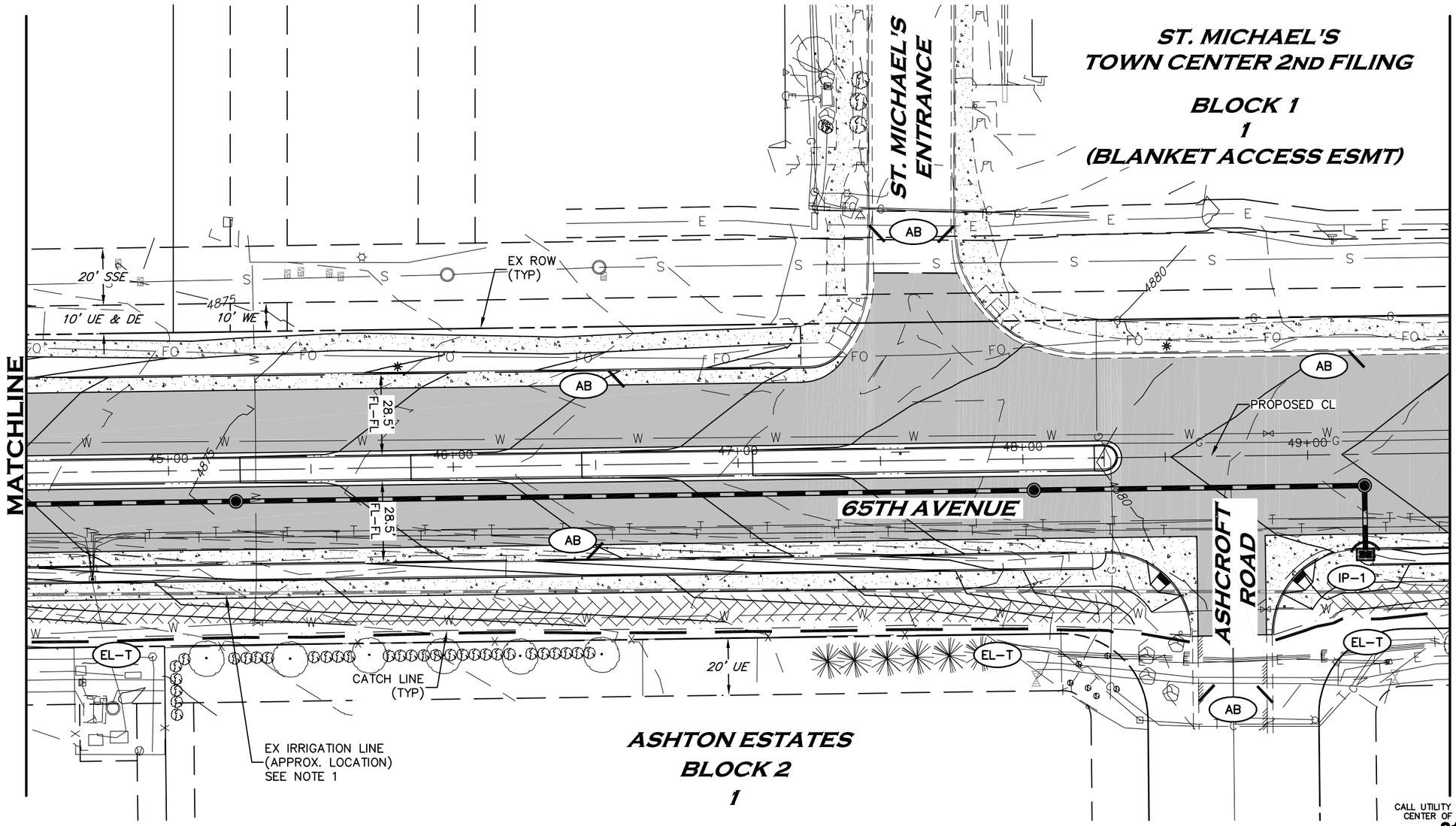
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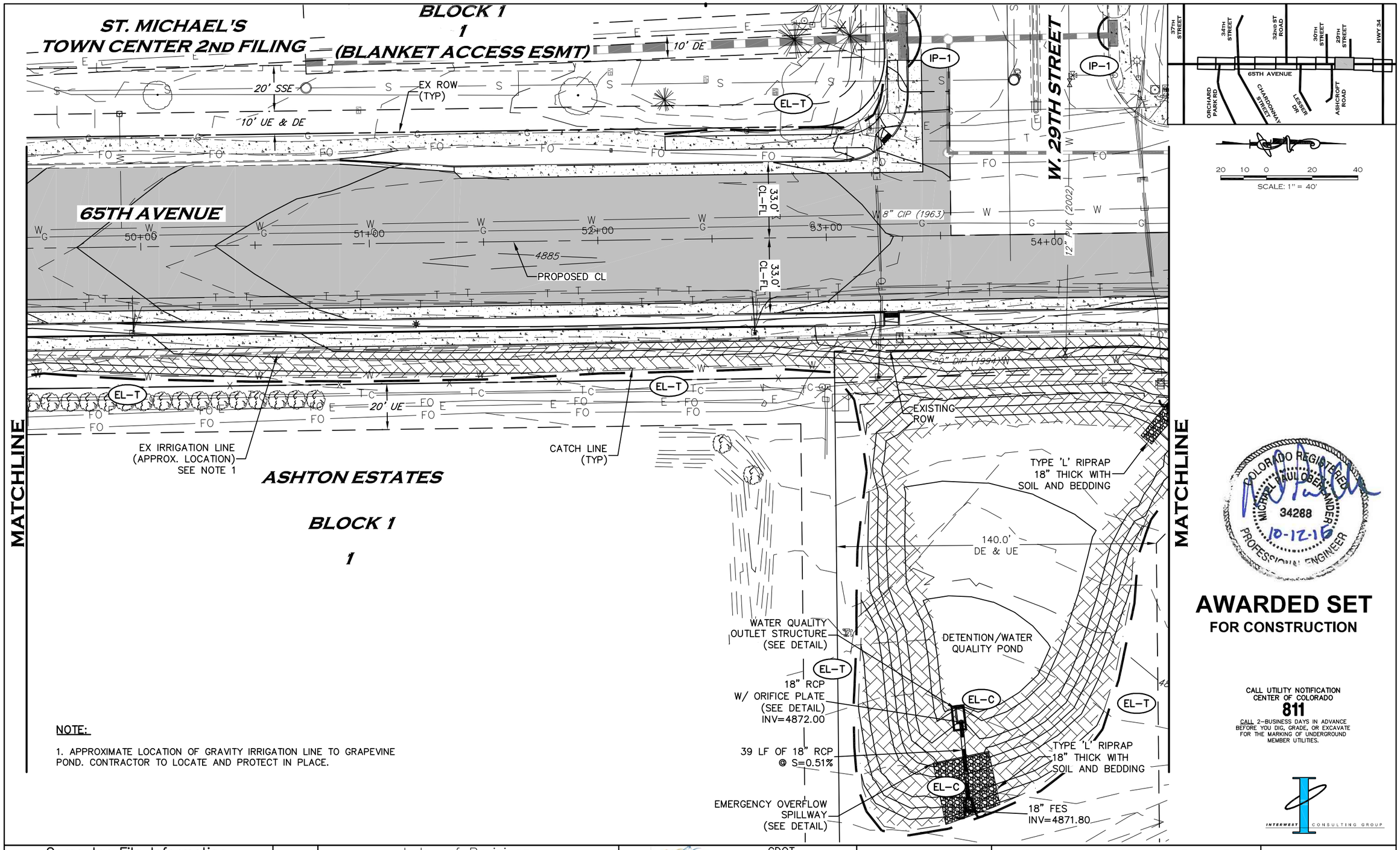
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Void:	Detailer: S. WEIER	SHEET NUMBER 71
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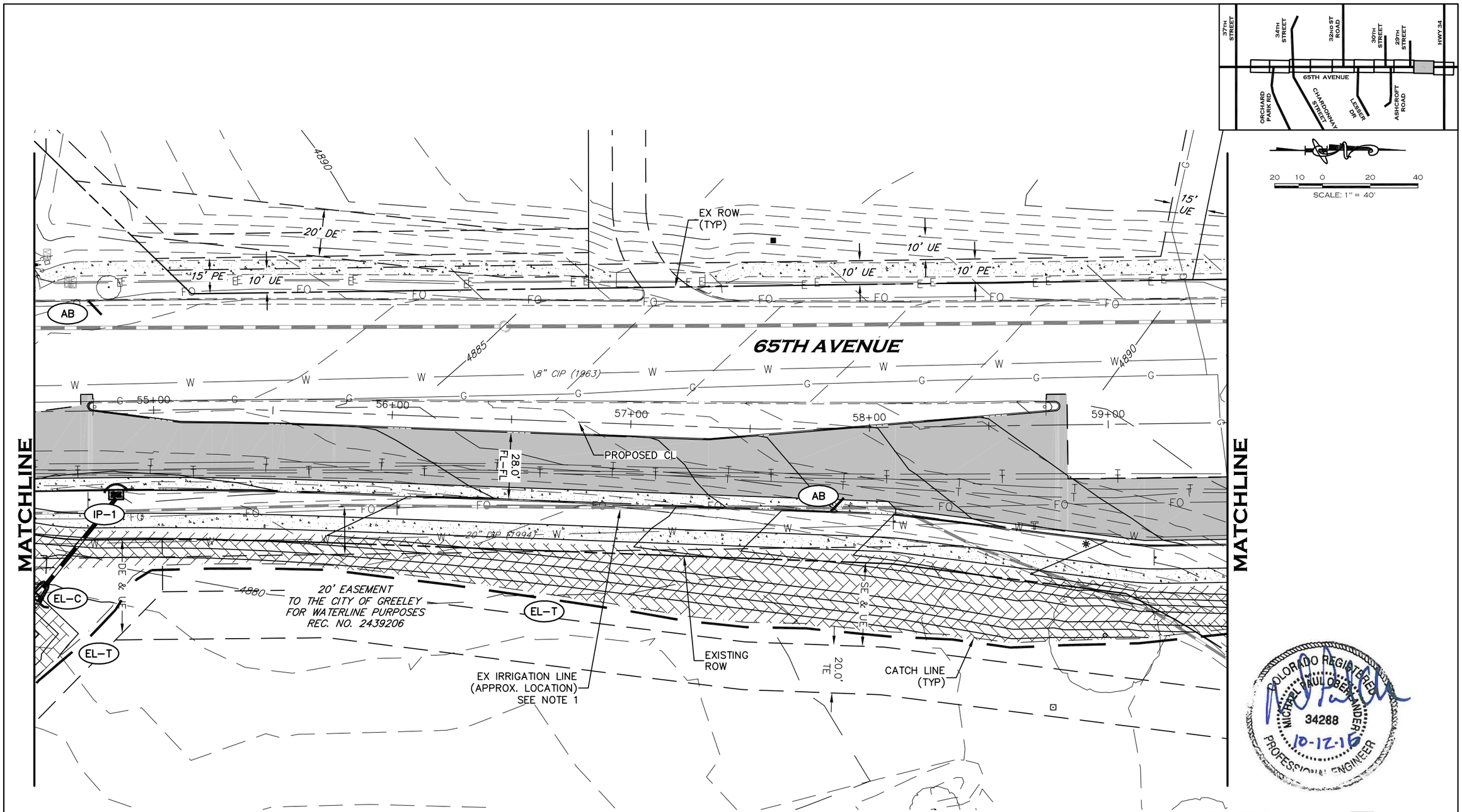
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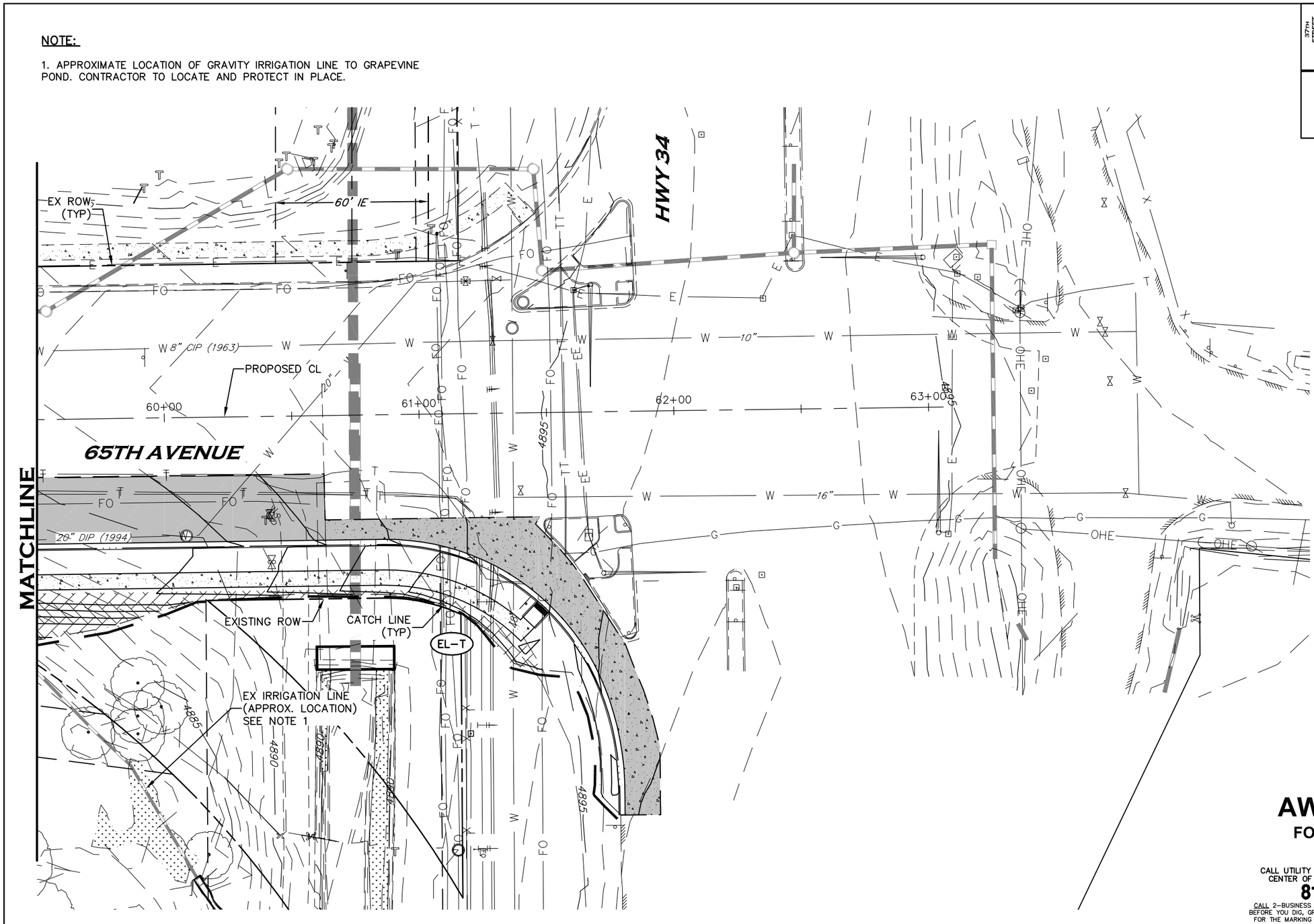
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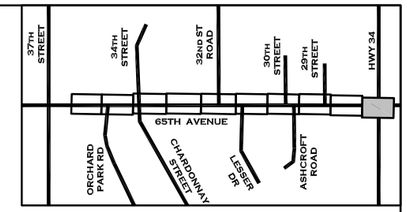
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1. SITE DESCRIPTION

To fulfill the CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit). The ECS shall update to reflect current project site conditions.

A. PROJECT SITE DESCRIPTION:
65th Avenue is a north-south corridor in west Greeley. Adjacent development to the area of improvements includes St. Michael's Subdivision, Ashton Estates, Grapevine Hollow First Filing, Rocky Mountains Crossroads and undeveloped property north of Ashcroft Estates. The existing 2 lane road will be widened to 4 lanes with curb, gutter, walks, bike lanes, and storm sewer systems with this project. The length of the project is approximately 4,200 LF. The contractor will be responsible for maintaining the SWMP and SWMP Notebook and SWMP Map and staying in constant compliance with the State Permit from the commencement of the project to final stabilization.

B. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:
The project will improve and widen 65th Avenue from US Highway 34 Bypass south to Ashcroft Draw. The project includes roadway reconstruction and widening, installation of curb, gutter, sidewalks, ramps, and medians and makes reservations for future signals. The sequence will be generally as follows:
Clearing and grubbing;
East ½ of roadway - topsoil stripping, pavement removal and grading, storm sewer installation, curb, gutter and pavement, sidewalk;
West ½ of roadway - pavement removal and grading, curb, gutter and pavement, sidewalk;
Median landscaping, topsoil amendment, placements, seeding and sod (entire project)

C. ACRES OF DISTURBANCE:
1. Total area of construction site: 10.32 acres
2. Total area of disturbance: 10.32 acres
3. Acreage of seeding: 1.26 acres
4. Acreage of sod: 1.59 acres

D. EXISTING SOIL DATA:
The majority of existing soil type on-site consists of Nelson fine sandy loam and Olney fine Sandy loam and is classified as Type B by the Natural Resources Conservation Service.

E. EXISTING VEGETATION, INCLUDING PERCENT COVER:
The areas not currently paved are a combination of sod and native dryland cover (grasses and weeds). Existing percent vegetative cover is approximately 90%.

F. POTENTIAL POLLUTANTS SOURCES: See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

G. RECEIVING WATER:
1. Outfall locations: The entire project ultimately outfalls to the Ashcroft Draw either directly from the storm pipes in 65th Avenue, or through the storm drainage systems of the adjacent developments on the west and east.
2. Names of receiving water(s) on site and the ultimate receiving water: the Ashcroft Draw and ultimatey to the South Platte River
3. Distance ultimate receiving water is from project: 16,500 feet

H. ALLOWABLE NON-STORMWATER DISCHARGES
1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
   a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
   b. the source and BMPs are identified in the SWMP
   c. discharges do not leave the site as surface runoff or to surface waters
   d. The contractor shall protect all work areas and facilities from water at all times. Areas and facilties subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with Subsection 107.25
   e. Dewatering activities will be permitted with the State by the Contractor
2. If discharges do not meet the above criteria a separate CDPS permit shall be obtained by the Contractor from the CDPHE. See standard special provision 250 Hazardous Waste and Contaminated Water.
3. Irrigation return flows may be discharged into the storm drainage system, although the system should be designed to not overwater irrigated areas.

I. ENVIRONMENTAL IMPACTS:
1. Wetland Impacts: YES NO
2. Stream Impacts: YES NO
3. Threatened and Endangered Species: No Species are anticipated to be impacted by the project.

2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES – See limits of grading on Grading and Erosion Control Plan

B. ALL AREAS OF GROUND SURFACE DISTURBANCE – See limits of grading on Grading and Erosion Control Plan

C. AREAS OF CUT AND FILL – 10.32 Acres

D. LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP – See Grading and Erosion Control Plan

E. LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP – Contractor to identify

F. SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER – See Ashcroft Draw on Grading and Erosion Control Plan

G. PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION - None

H. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and BATCH PLANTS – No batch plants allowed or proposed – Contractor to identify all other storage and staging areas.

3. SWMP ADMINISTRATORS:

SWMP ADMINISTRATOR FOR DESIGN: Mike Oberlander, PE, Sr. Project Manager, Interwest Consulting Group – 970-460-8471

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES
Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

B. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION
PHASED BMP IMPLEMENTATION

During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls.

STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING: FIRST/INITIAL CONSTRUCTION ACTIVITIES	BMP PHASING: INTERIM CONSTRUCTION ACTIVITIES	BMP PHASING: FINAL STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.	X				
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to protect mature trees and/or existing landscaping prior to start of construction disturbances.	X				
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.					
TYPE R AND TYPE 16 INLET PROTECTION Storm drain inlet protection (type 1,2 and 3)	Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	X				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	X				
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.	X				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stock pile, increase control as stock pile increases size.					
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	X				
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area					
SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs	Placed on the contour on a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.					
TEMPORARY SEDIMENT TRAP (ECS shall add locations to SWMP site maps)	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances.					
PERMANENT SEDIMENT BASIN Extended detention basin	Constructed early in project, prior to storm sewer/ditches to capture storm flow as a temporary sediment trap. Outlet structure shall be modified for construction runoff.					
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.					
OUTLET PROTECTION Riprap, or approved other	Material placed as energy dissipater to prevent erosion at outlet structure.	X				
CONCRETE	Construction control, used for waste management of	X				

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STORMWATER MANAGEMENT PLAN

Designer: J. LOFTON
Detailer: S. WEIER
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER 75

WASHOUT In-ground or fabricated	concrete and concrete equipment cleaning. Place prior to start of concrete activities.					
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	X				
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be allowed.	X				
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.	X				
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water					
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff					

NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
VEGETATIVE BUFFER STRIP Fence (plastic)	Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting.					
LANDFORM (ECS shall add locations to SWMP site maps)	Existing landforms may be used as a BMP if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion.					
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches, and placed in stockpiles or windrows. Upon completion of slope work/final grading (less 4 inches), topsoil shall be evenly distributed over embankment to a depth of 4 inches.	X				
SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING TEMPORARY	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.					
BONDED FIBER MATRIX/HYDRAULIC MULCH (Not to be used in areas of concentrated flows, i.e. ditch lines.)	To be used in combination with surface roughening for temporary stabilization of disturbed soils, when work is temporarily halted and as approved by the Engineer. May be used as surface cover for temporary topsoil stockpiles	X				
MULCH/MULCH TACKIFIER	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SEEDING PERMANENT	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					
SOIL RETENTION BLANKET (SRB)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	X				
TURF REINFORCEMENT MAT (TRM)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.					
OTHER						

Erosion control devices are used to limit the amount of soil loss on site
Sediment control devices are designed to capture sediment on the project site.
Construction controls are BMPs related to construction access and staging.
BMP locations are indicated on the SWMP site map.

NARRATIVES
BMP details and narratives not covered by the SWMP or Standard Plan M-208-1 shall be added to the SWMP notebook by the ECS.

D. OFFSITE DRAINAGE (RUN ON WATER)
1. There is no run on water to the project site.

E. VEHICLE TRACKING PAD/VEHICLE "TRACKING CONTRCL
1. BMPs shall be implemented in accordance with subsection 208.04.

F. PERIMETER CONTROL
1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
3. Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION
RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/TRANSPORTATION EROSION CONTROL SUPERVISOR DURING CONSTRUCTION
The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208.
During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

A. STOCKPILE MANAGEMENT - shall be done in accordance with subsection 107.25 and 208.07

B. CONCRETE WASHOUT - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

C. SAW CUTTING - shall be done in accordance with subsection 107.25, 208.04, 208.05

D. STREET CLEANING - shall be done in accordance with subsection 208.04

6. INSPECTIONS

A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP MAINTENANCE

A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

A. Records shall be kept in accordance with subsection 208.03 (c).

9. INTERIM AND FINAL STABILIZATION

A. SEEDING PLAN

Soil preparation, topsoil, seeding (native), seeding (pond), mulching (hydraulic) will be required for an estimated 2.85 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
LOW GROW MIX		
Buffalograss		8.0
Blue grama		6.5
GREELEY SLOPE MIX		
Sideoats grama		2.0
Blue grama		2.0
Little Bluestem		2.0
Sand dropseed		0.06
GREELEY POND MIX		
Little Bluestem		3.0
Yellow Indian Grass		2.0
Switchgrass		1.0
Blue grama		0.6
Sideoats grama		4.0
Prairie Sandreed		1.5
Western Wheatgrass		6.5
COMPANION CROP		
Spring Planting:		
Oats		4.0
Fall Planting:		
Winter Wheat		2.0

B. SEEDING APPLICATION: Drill seed 0.25 inch to 0.5 inch irto the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil.

C. MULCHING APPLICATION: Apply a minimum of 2 tons of certified weed free straw or 2 tons of certified weed free straw per acre anc in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.
a. Prior to winter shutdown or the summer seeding window: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per section 213.

COLORADO REGISTERED
MICHAEL PAUL OBERENDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information	
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As Constructed	STORMWATER MANAGEMENT PLAN	Project No./Code
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D. SPECIAL REQUIREMENTS:

1. Due to high failure rates hydroseeding will not be allowed.
2. Due to steep slopes (>2:1), hydroseeding will be allowed on this project. Hydroseeding rate shall be at double the attached rate. Hydroseed shall be applied in a single slurry which contains seed, tackifier, humate and fertilizer. Slurry shall be applied from top of slope downward, in 50' vertical lifts, unless otherwise approved by the Engineer.

E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:

Soil conditioner paid for as Item 212 - Soil Conditioning (AC)		
Biological nutrient organic based fertiizer (lbs/acre)*		
200		

*Biological nutrient shall not exceed 20-10-5 (N-P-K).

F. SOIL RETENTION COVERING: On slopes and citches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier. See SWMP and Grading and Erosion Control plans for blanket locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

1. Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

10. PRIOR TO FINAL ACCEPTANCE

A. Final Acceptance shall be in accordance with subsection 208.10 At the Partial Acceptance of the project, it shall be determined by the ECS and the Engineer which temporary BMP's shall remain until 70% reestablishment or which shall be removed.
B. At the end of the project, all ditch checks shall either consist of temporary erosion logs or permanent rip-rap.
C. All storm drains shall be cleaned prior to the end of the project. Work shall be incidental to the contract.

11. TABULATION OF STORMWATER QUANTITIES

Pay Item	Description	Pay Unit	*Quantity
208-00002	Erosion Log Type 1 (12 Inch)	LF	5,800
208-00035	Aggregate Bag	LF	300
208-00045	Concrete Washout Structure	Each	2
208-00051	Storm Drain Inlet Protection (Type1)	LF	150
208-00052	Storm Drain Inlet Protection (Type2)	LF	50
208-00070	Vehicle Tracking Pad	Each	2
208-00205	Erosion Control Supervisor	Hour	270
212-00006a	Seeding (Native)	Acre	1.11
212-00006b	Seeding (Pond)	Acre	0.15
212-00032	Soil Conditioning	Acre	2.85
212-00050	Sod (Bluegrass)	SF	24,570
212-00055	Sod (Buffalograss)	SF	44,741
213-00011	Mulching (Hydraulic)	Acre	1.26
216-00201	Soil Retention Blanket (Straw-Cocorut) (Biodegradable Class 1)	SY	6,100

*It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased slightly for unforeseen Project conditions. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

A. BMP sediment removal and dsposal shall be incidental to the contract.

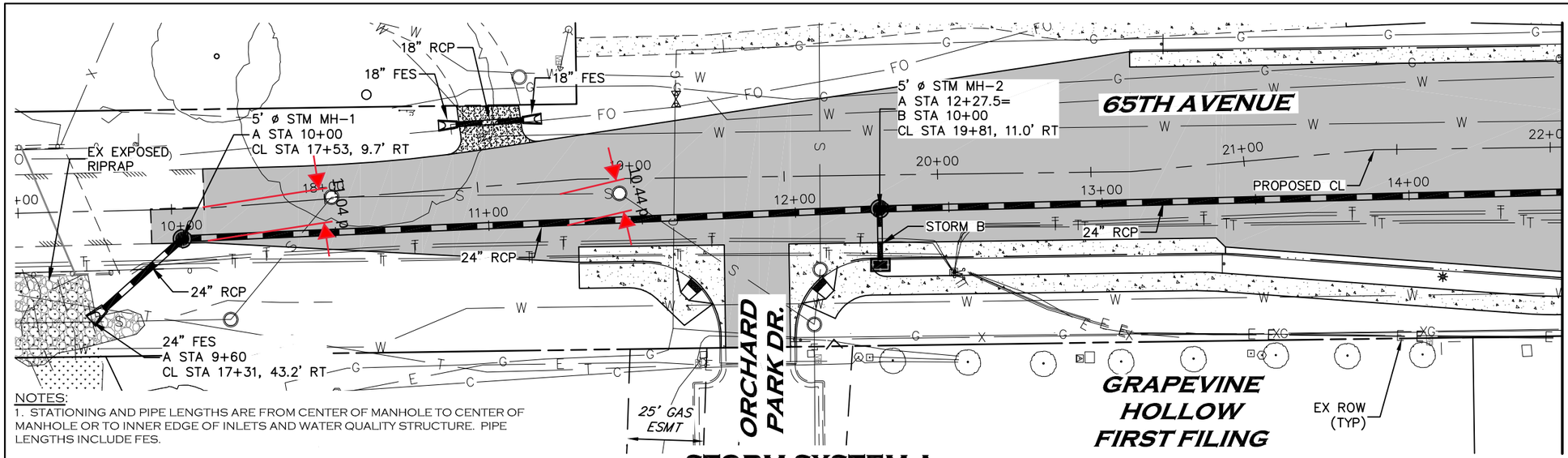
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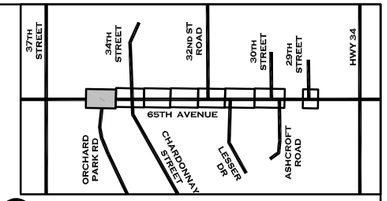
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Computer File Information		Index of Revisions			City of Greeley Engineering Dept. 1001 9th Avenue Greeley, CO 80631 Phone: 970.350.9881	As Constructed	STORMWATER MANAGEMENT PLAN		Project No./Code
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HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 5'

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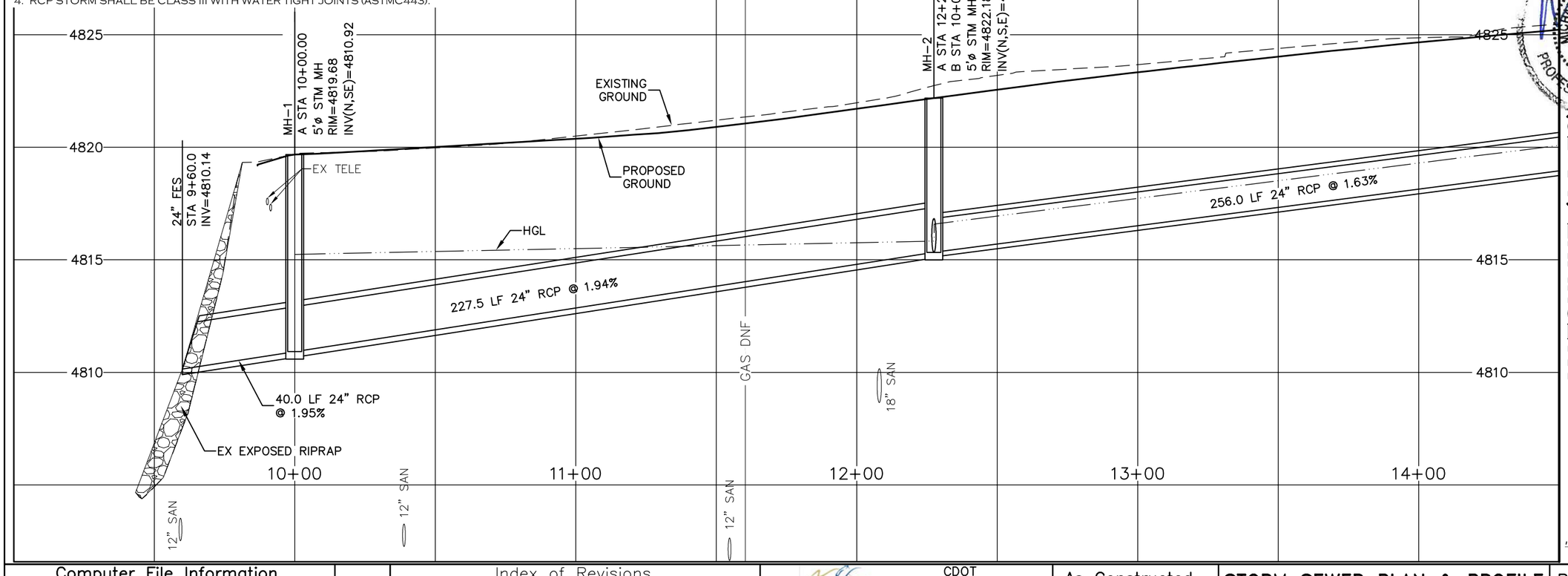
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STORM SYSTEM A



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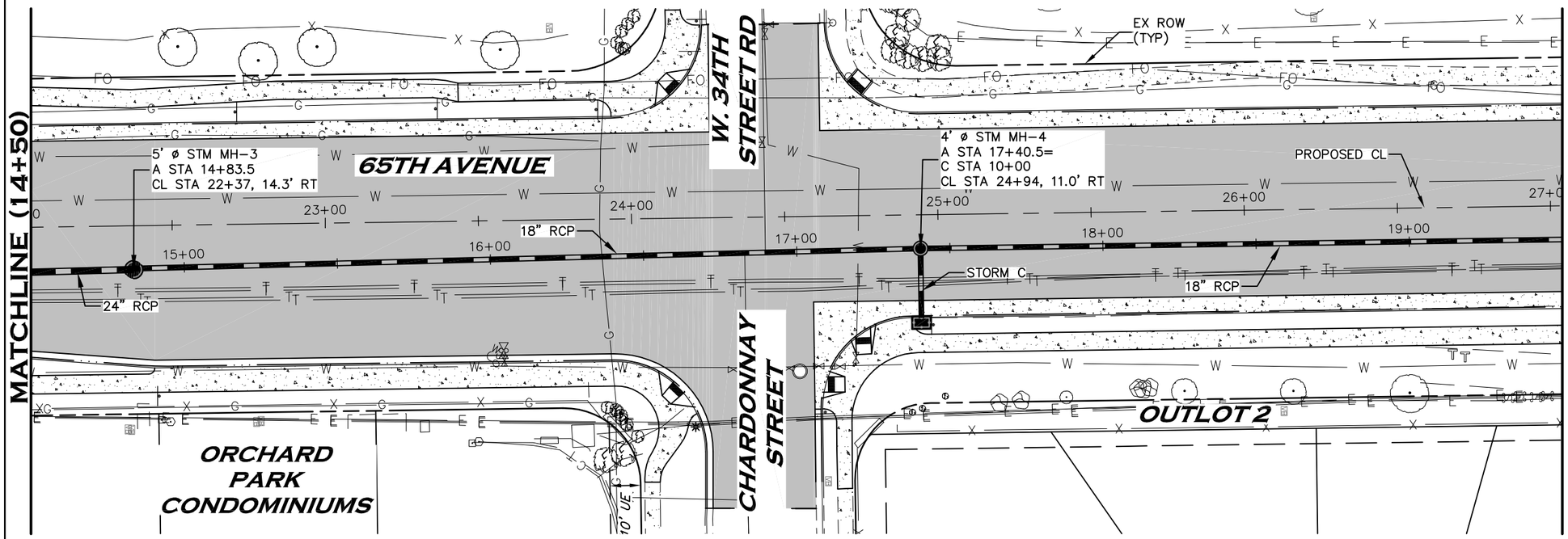
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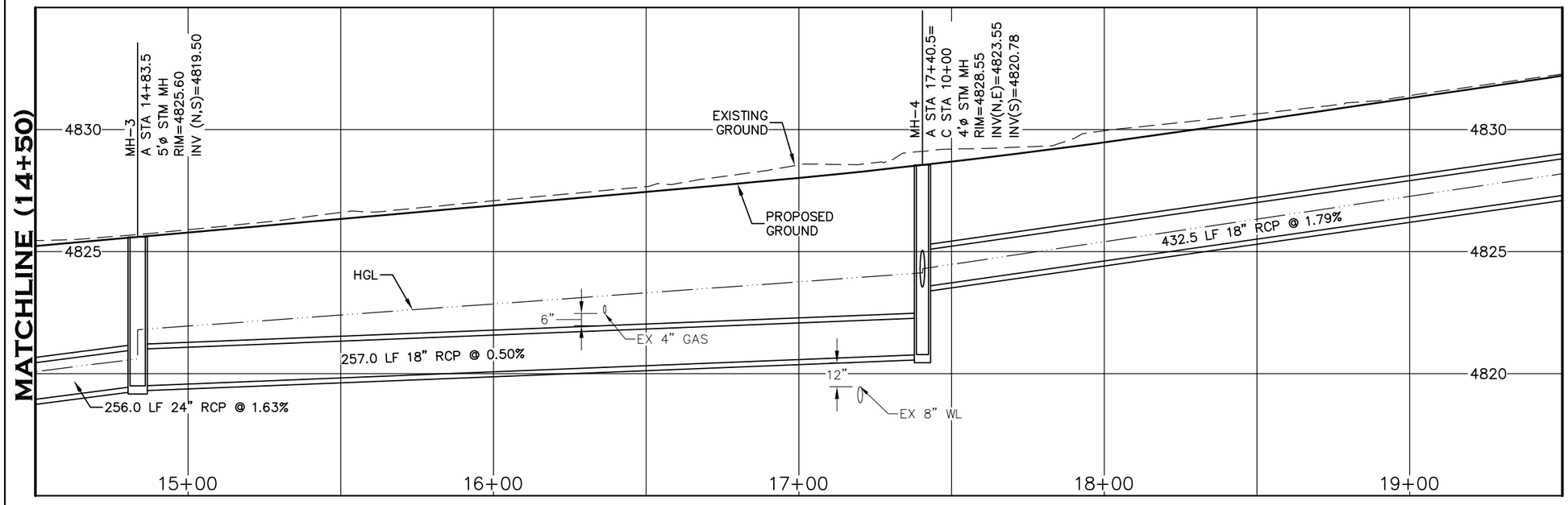
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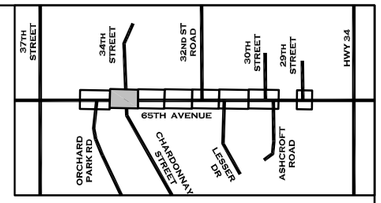
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20148
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STORM SYSTEM A





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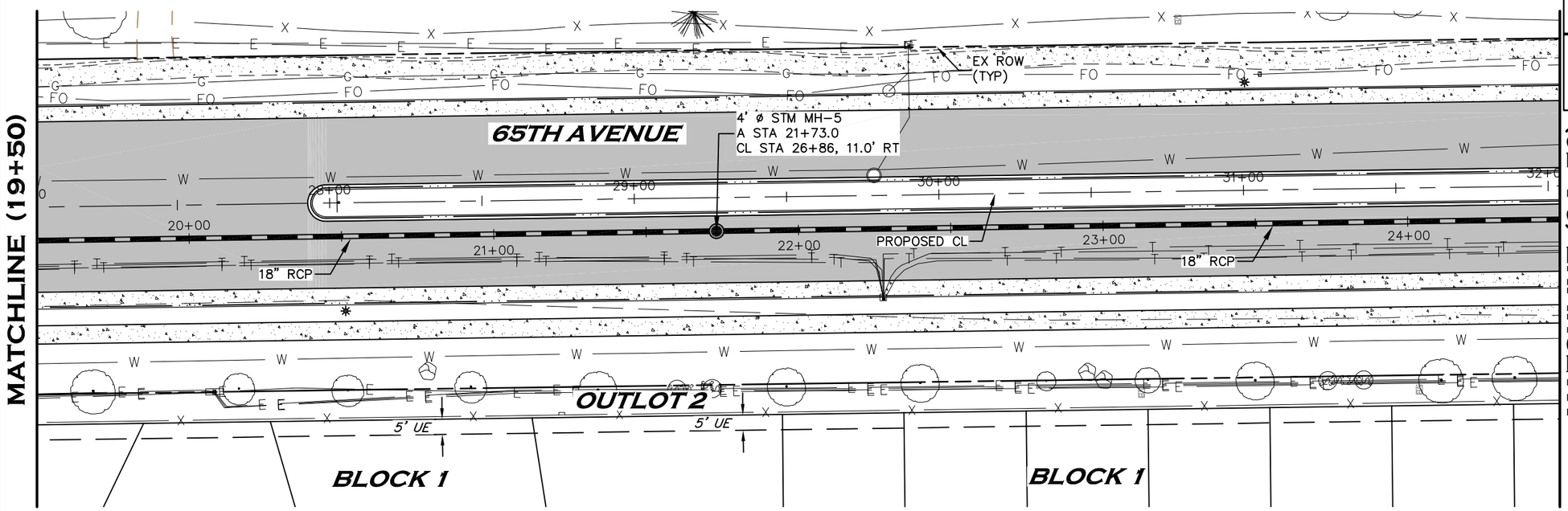
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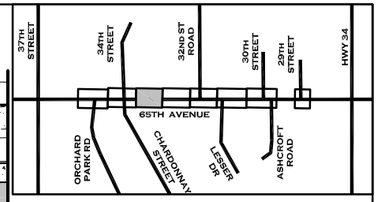
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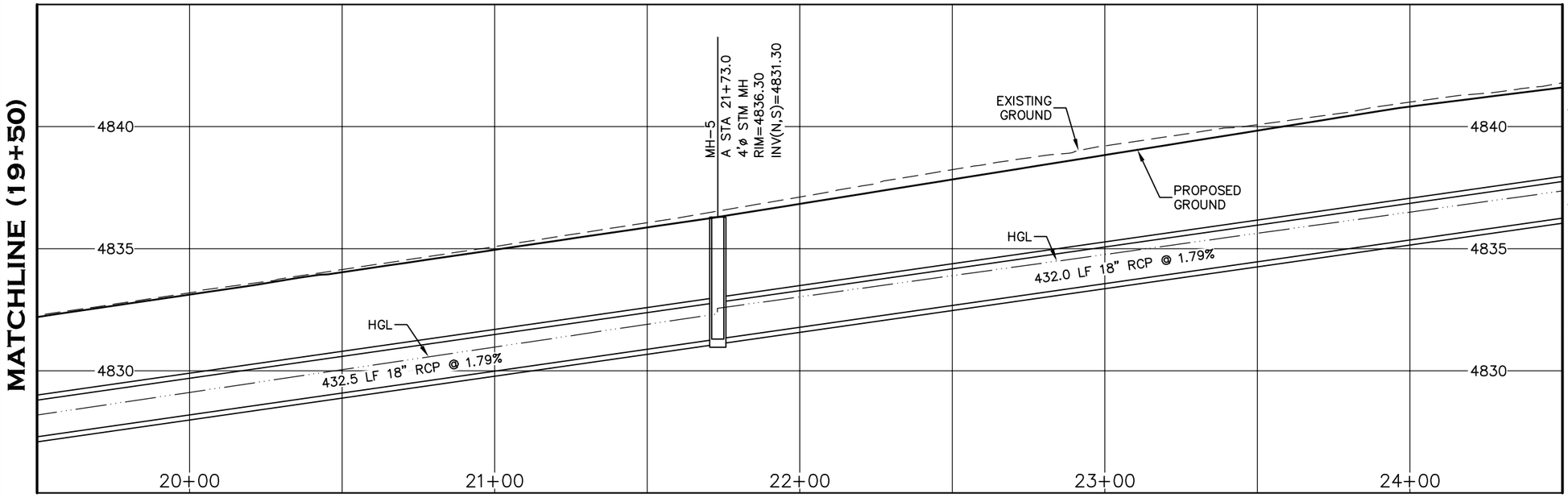
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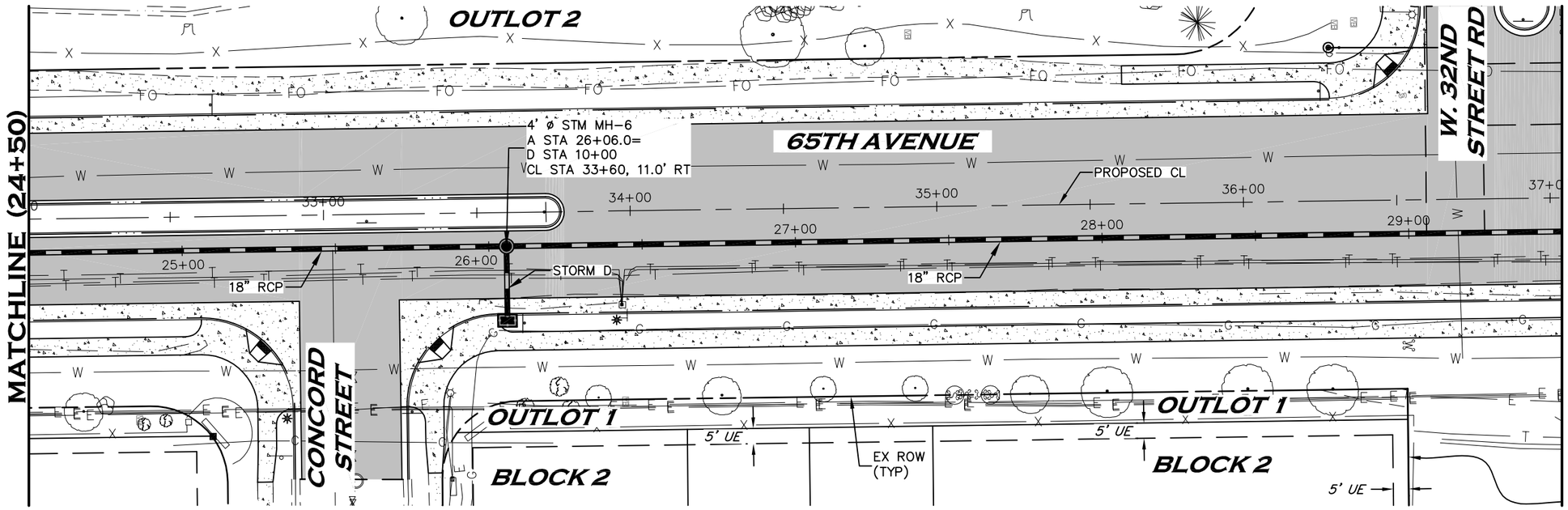
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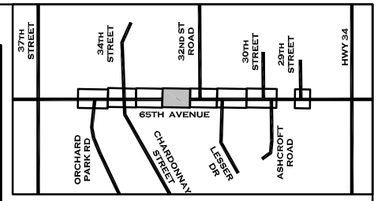
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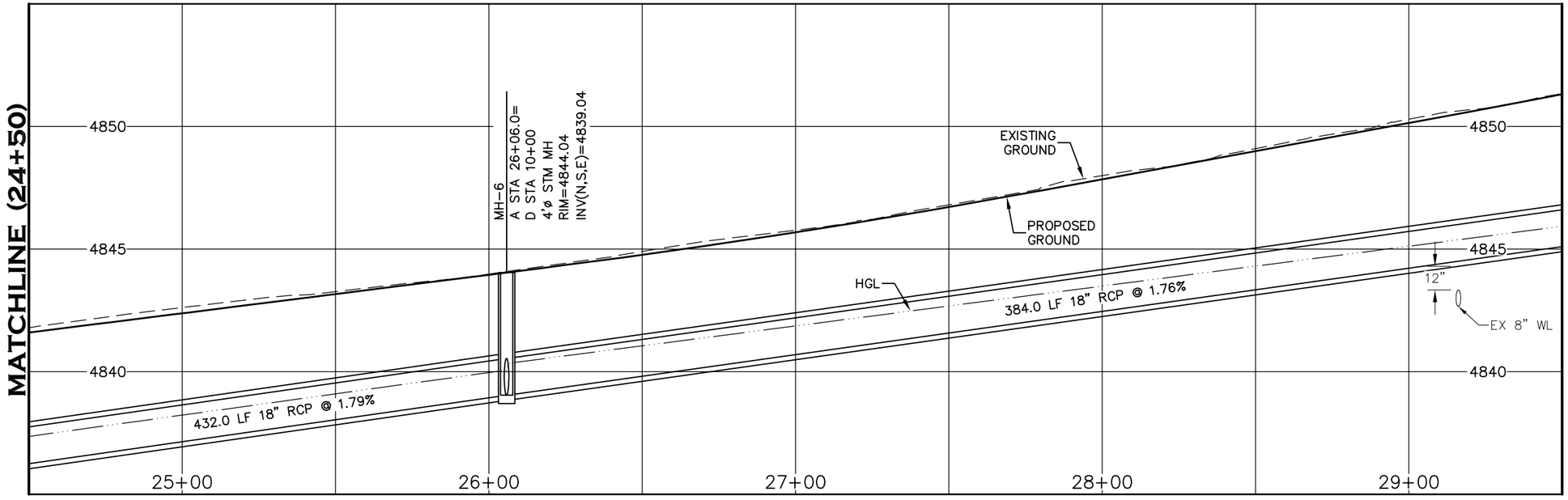
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STORM SYSTEM A



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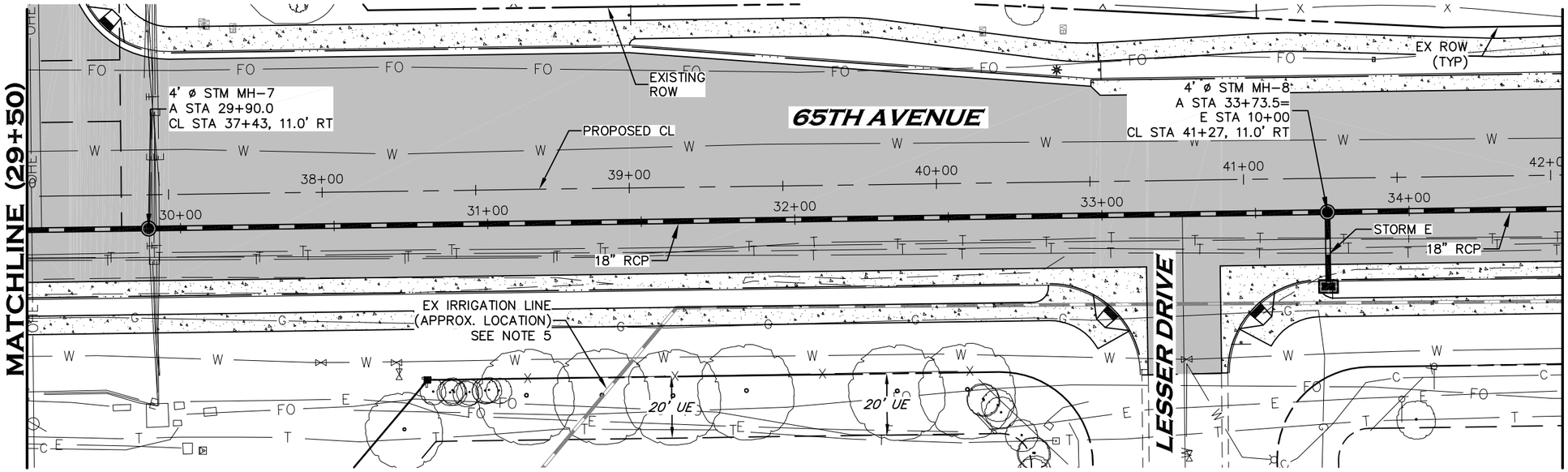
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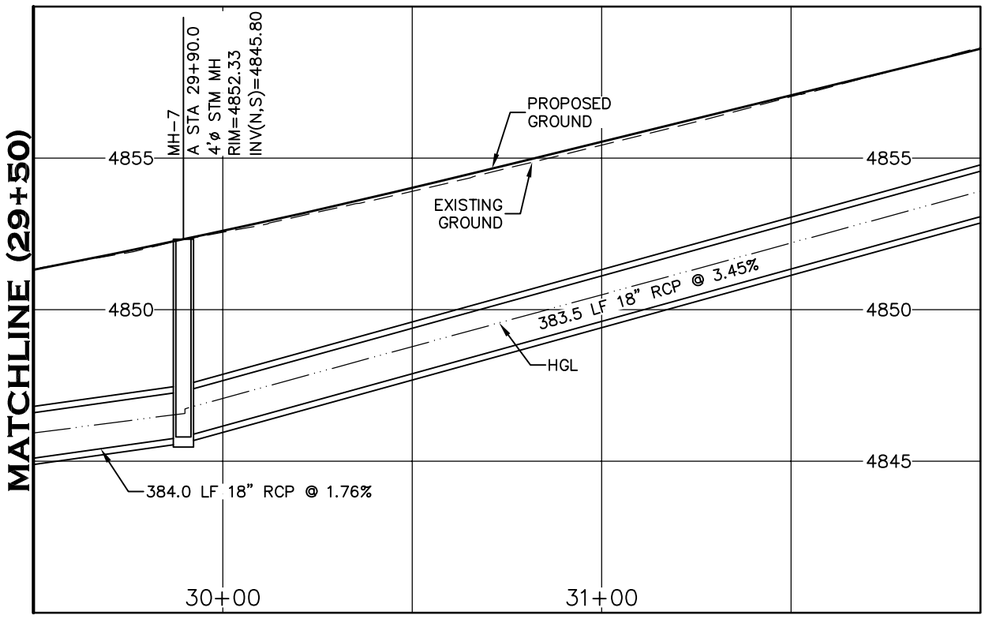
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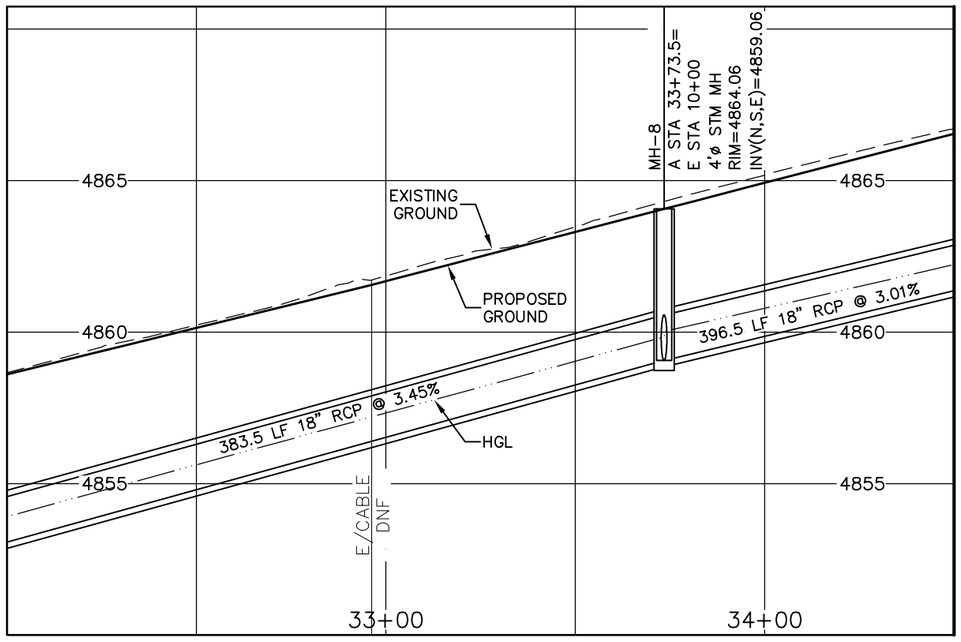
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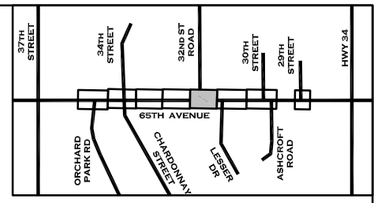
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STORM SYSTEM A







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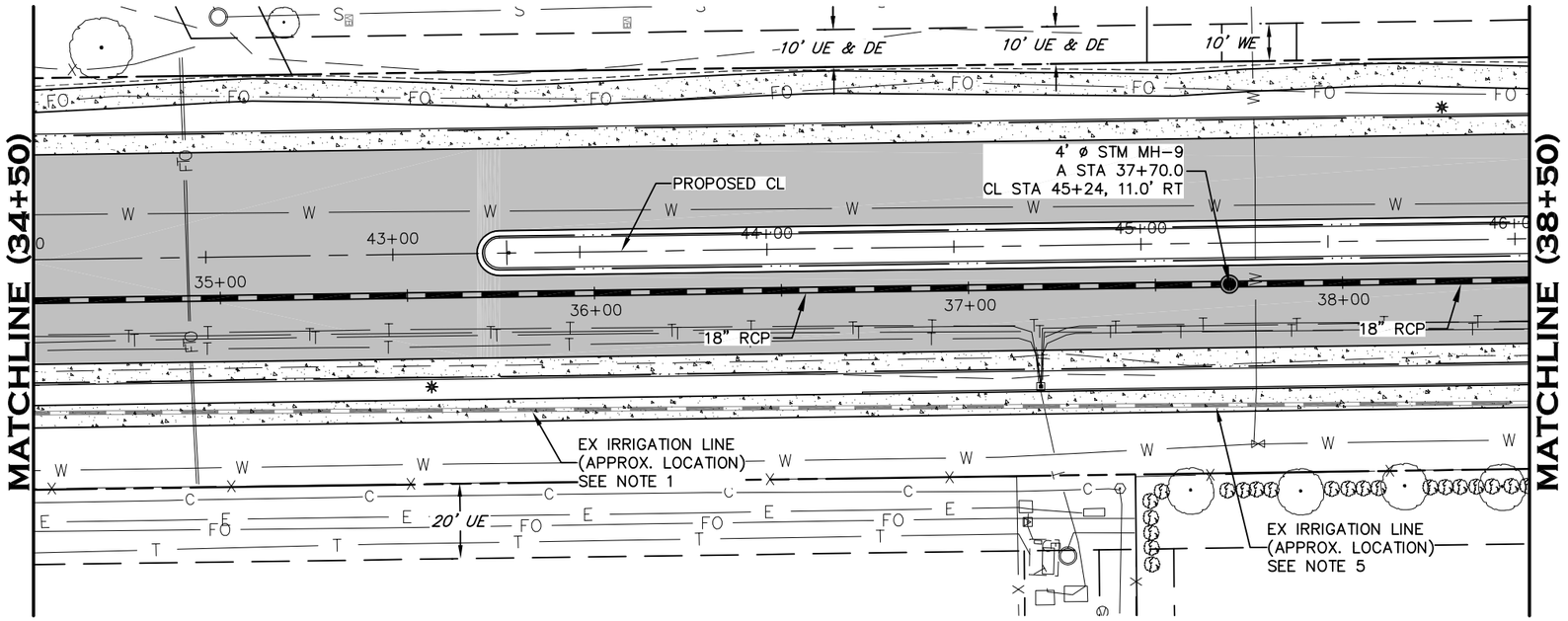
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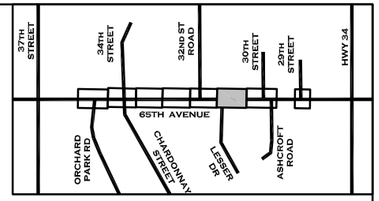
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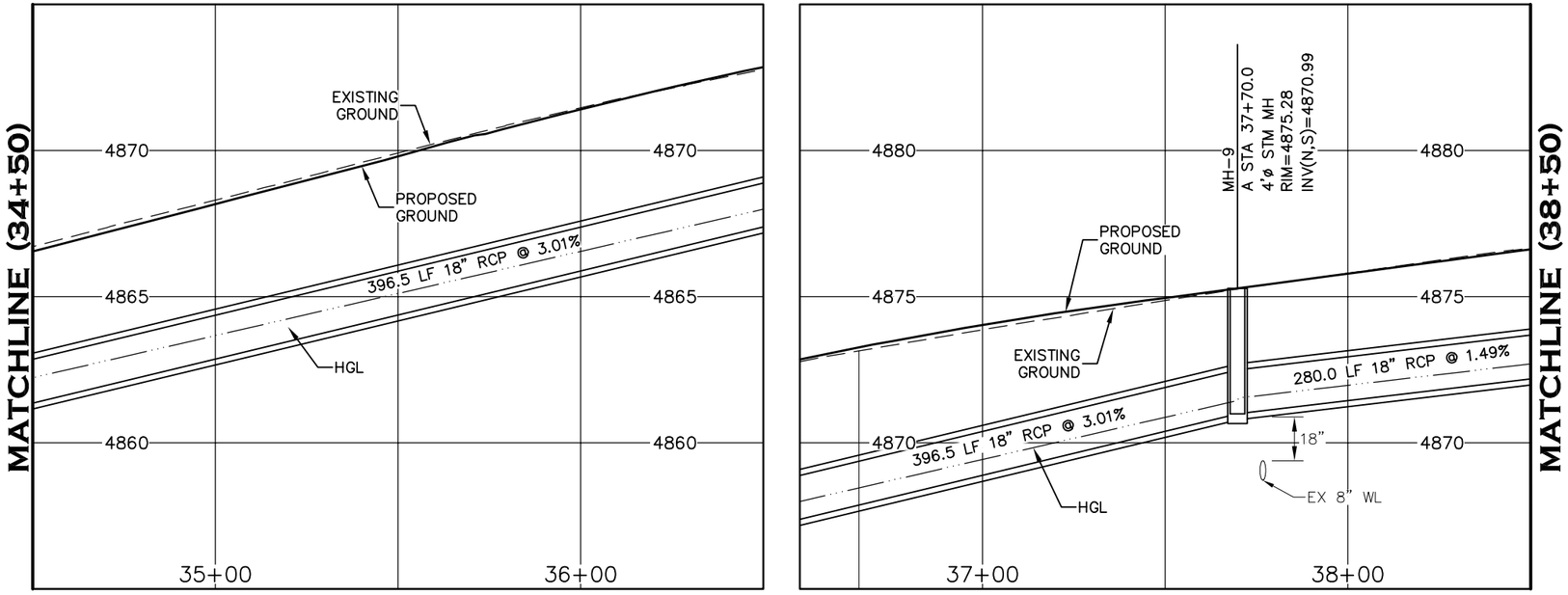




20 0 20 40

HORIZONTAL
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STORM SYSTEM A



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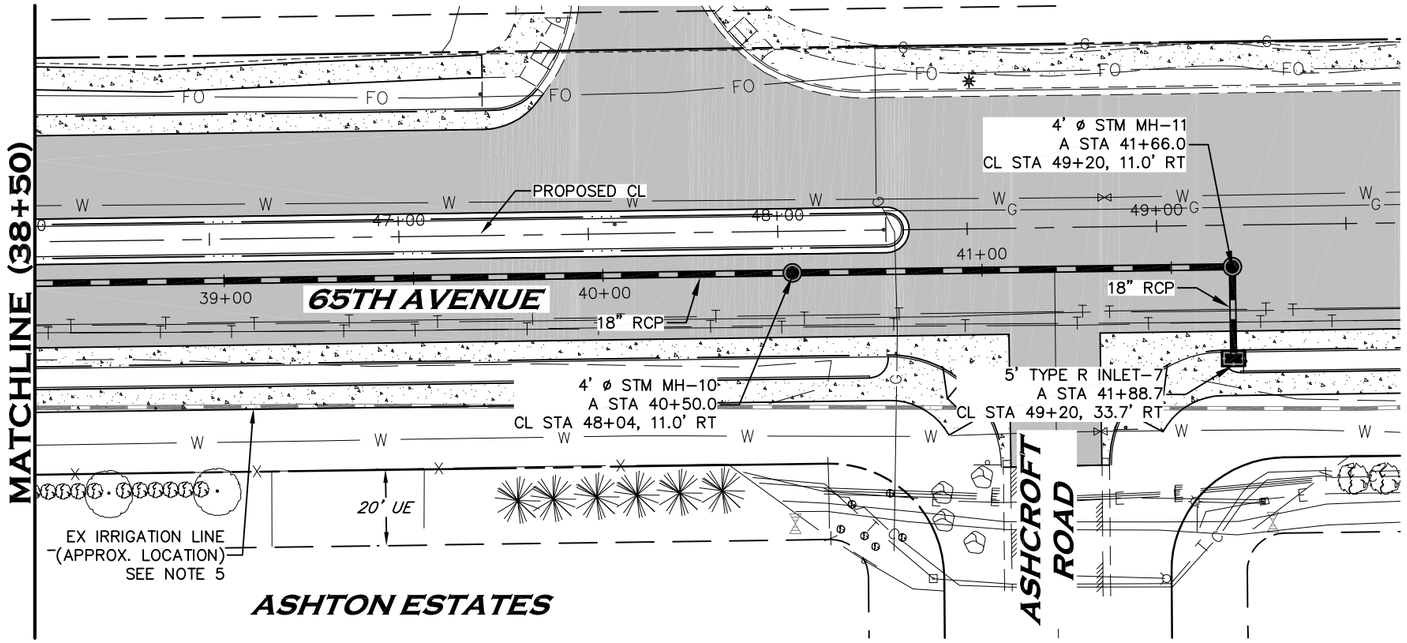
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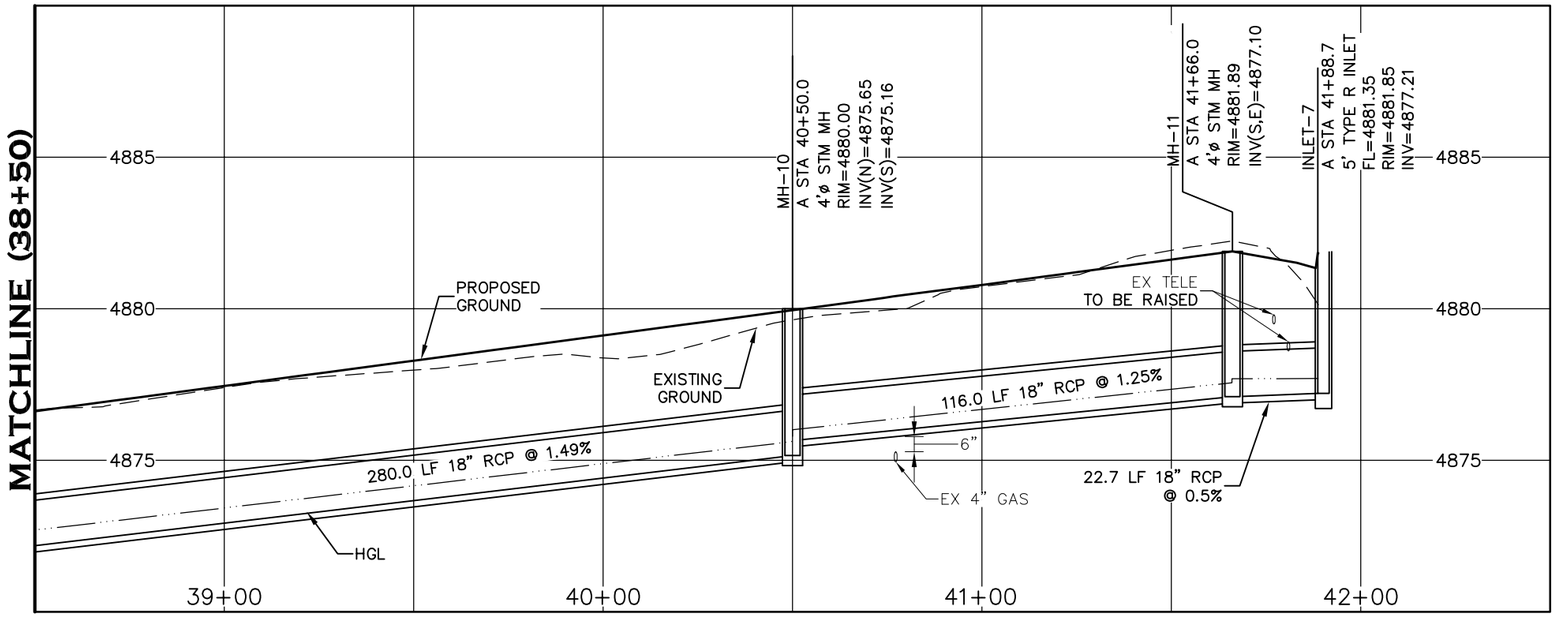
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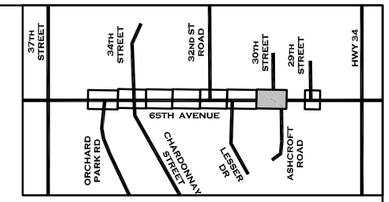
STORM SEWER PLAN & PROFILE			
STORM SYSTEM A			
Designer: J. LOFTON			
Detailer: S. WEIER			
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 83



STORM SYSTEM A





20 0 20 40

HORIZONTAL
SCALE: 1" = 40'
VERTICAL
SCALE: 1" = 5'

NOTES:
1. STATIONING AND PIPE LENGTHS ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO INNER EDGE OF INLETS AND WATER QUALITY STRUCTURE. PIPE LENGTHS INCLUDE FES.

2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.

3. ALL STORM MANHOLES TO BE ECCENTRIC FLAT TOP.

4. RCP STORM SHALL BE CLASS III WITH WATER TIGHT JOINTS (ASTMC443).

5. APPROXIMATE LOCATION OF GRAVITY IRRIGATION LINE TO GRAPEVINE POND. CONTRACTOR TO LOCATE AND PROTECT IN PLACE.

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

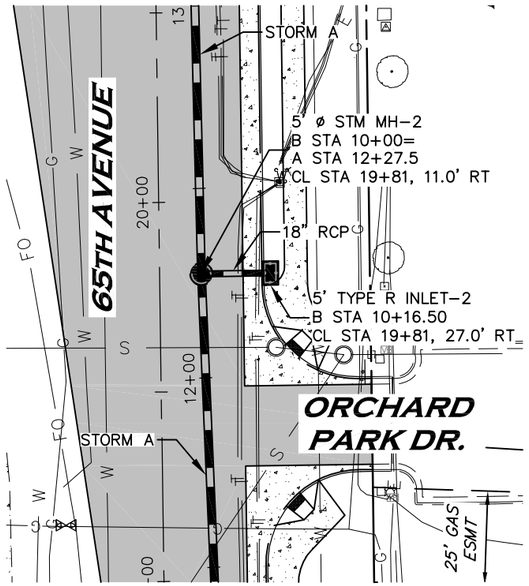
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Last Modification Date: 10/12/16	Initials: JDL	
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Drawing File Name: 1138-083-03-PP-STORM.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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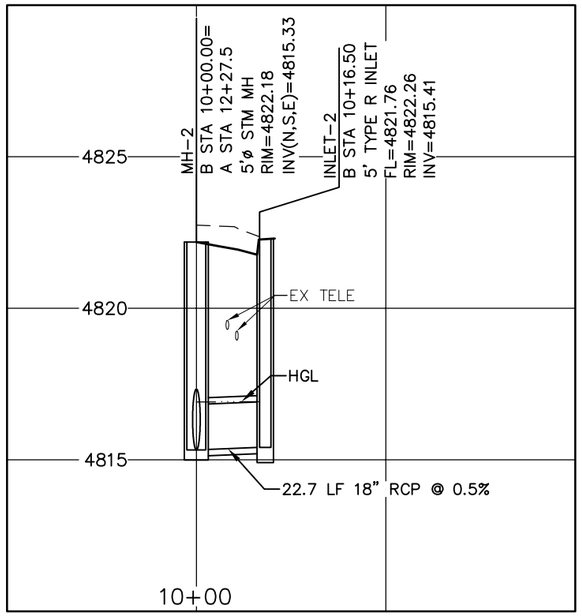
City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

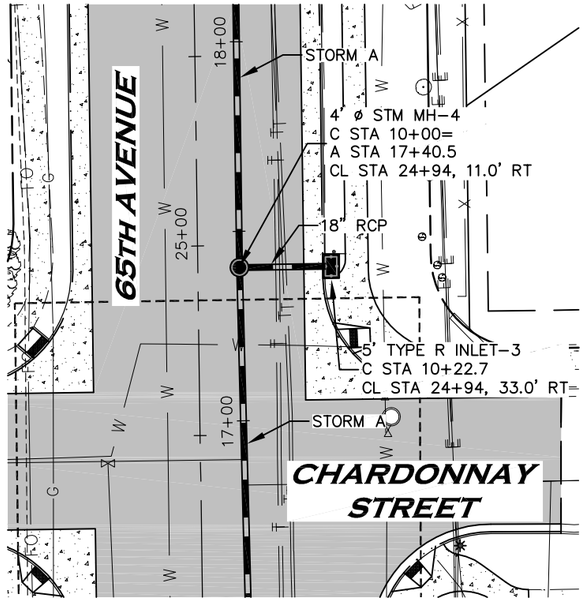
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	STORM SEWER PLAN & PROFILE	Project No./Code
No Revisions:	STORM SYSTEM A	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 84
	Sheet Subset:	Subset Sheet::

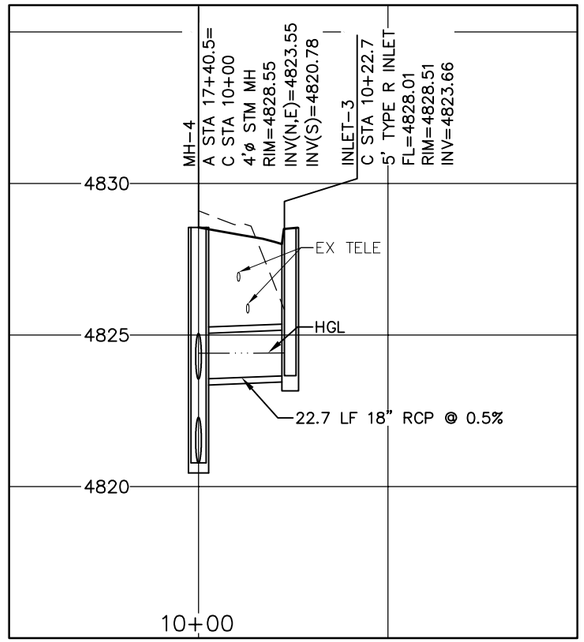


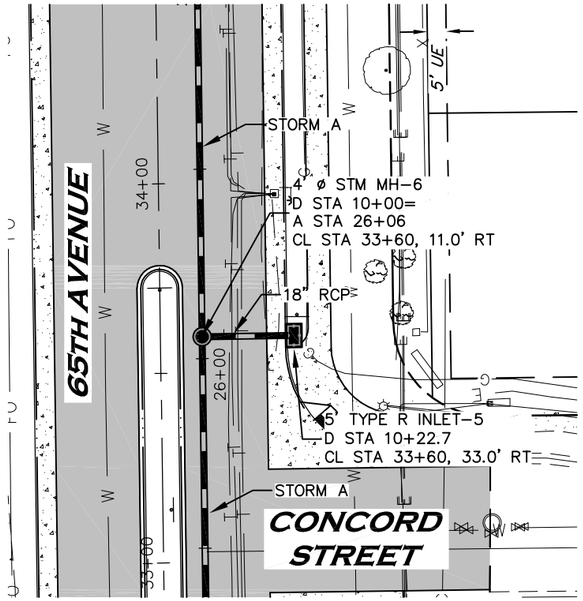
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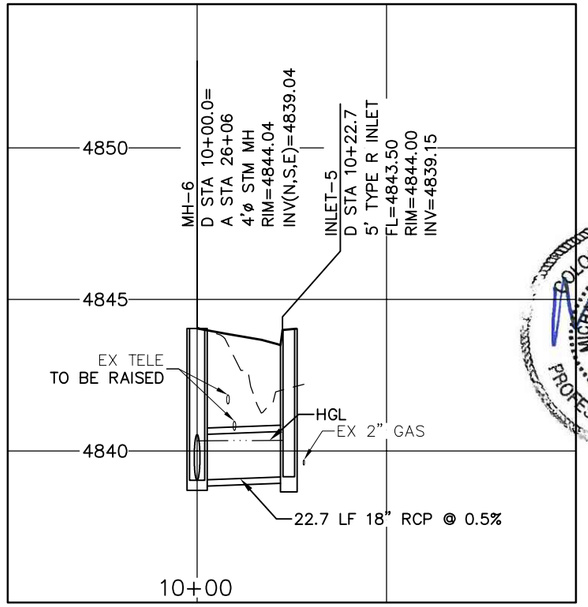


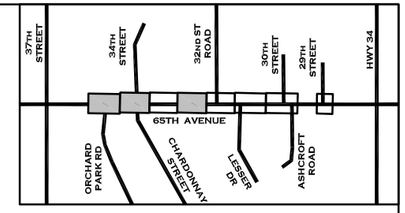
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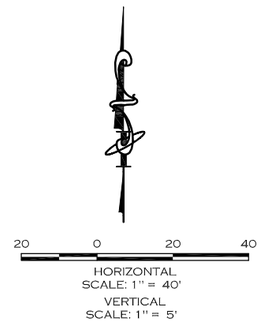




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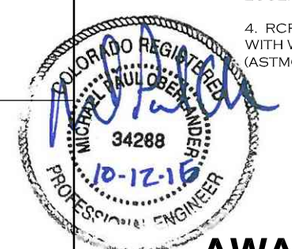






NOTES:

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AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

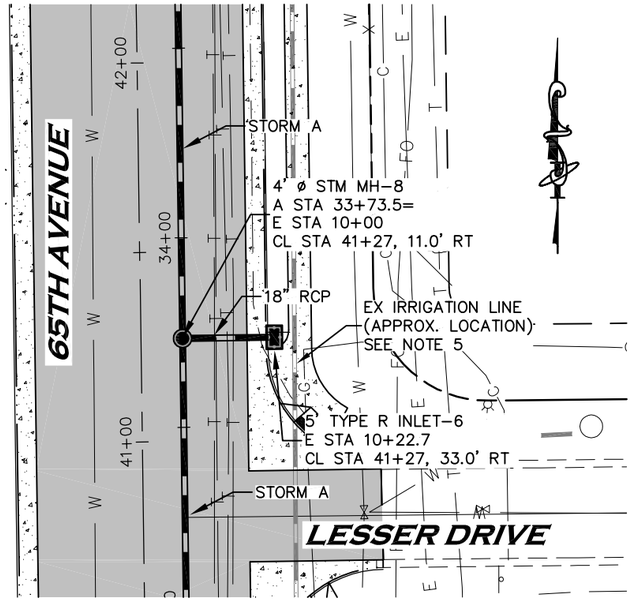
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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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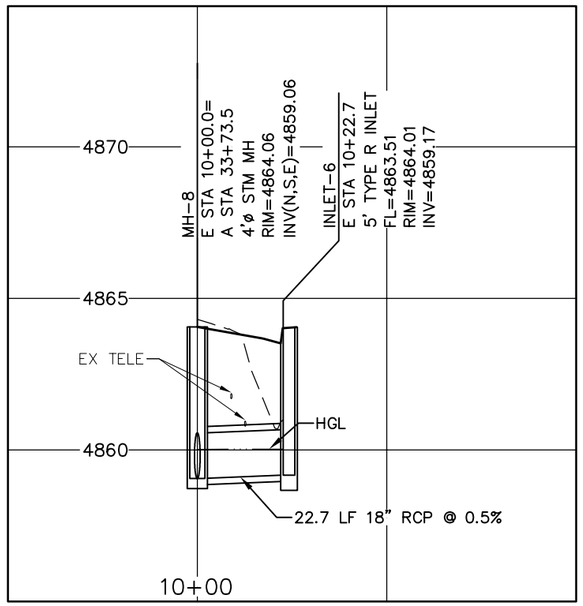
City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

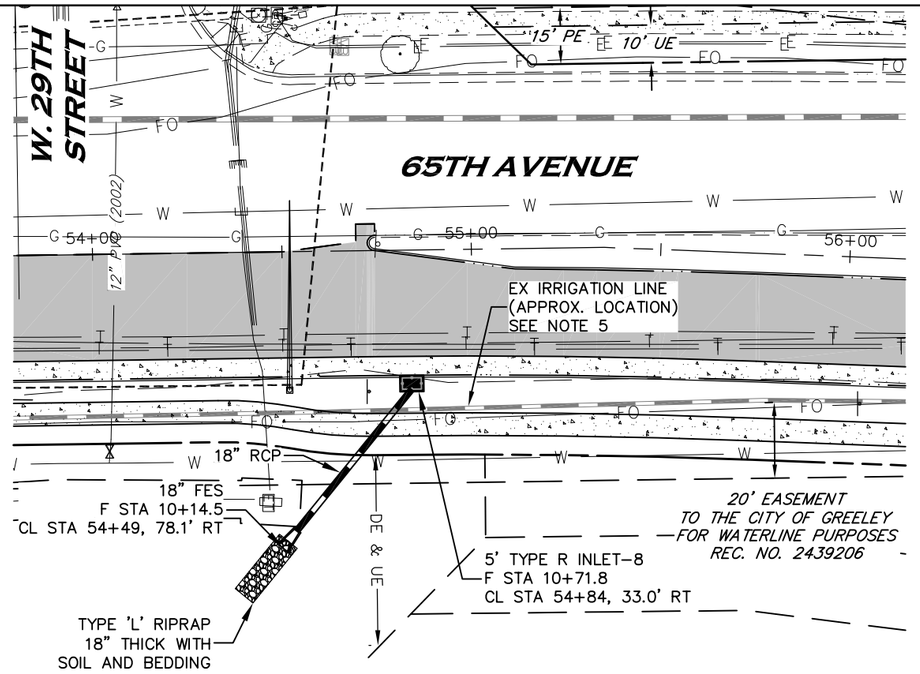
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed			
No Revisions:	STORM SEWER PLAN & PROFILE		Project No./Code
Revised:	STORM SYSTEM B, C, D		STU M570-046
Void:	Designer: J. LOFTON		20148
	Detailer: S. WEIER		
	Sheet Subset:	Subset Sheet::	SHEET NUMBER 85

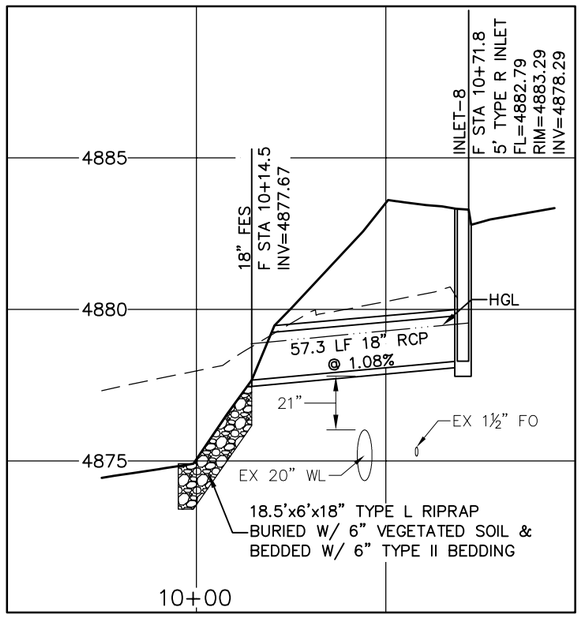


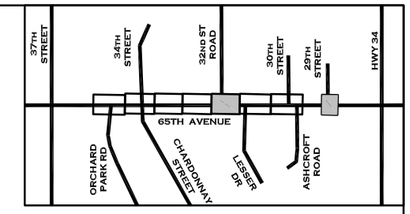
STORM SYSTEM E





STORM SYSTEM F





20 0 20 40

HORIZONTAL
SCALE: 1" = 40'

VERTICAL
SCALE: 1" = 5'

NOTES:

1. STATIONING AND PIPE LENGTHS ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO INNER EDGE OF INLETS AND WATER QUALITY STRUCTURE. PIPE LENGTHS INCLUDE FES.

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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information		
Creation Date: 06/10/15	Initials: JDL	
Last Modification Date: 10/12/16	Initials: JDL	
Full Path:		
Drawing File Name: 1138-083-03-PP-STORM.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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City of Greeley
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Engineering Dept.
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Greeley, CO 80631
Phone: 970.350.9881

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10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	STORM SEWER PLAN & PROFILE	Project No./Code
No Revisions:	STORM SYSTEM E & F	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 86
	Sheet Subset:	Subset Sheet::

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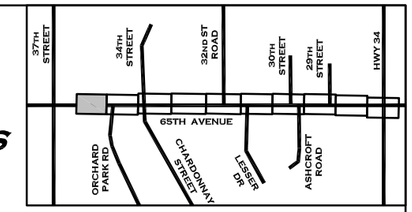
2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.

3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS



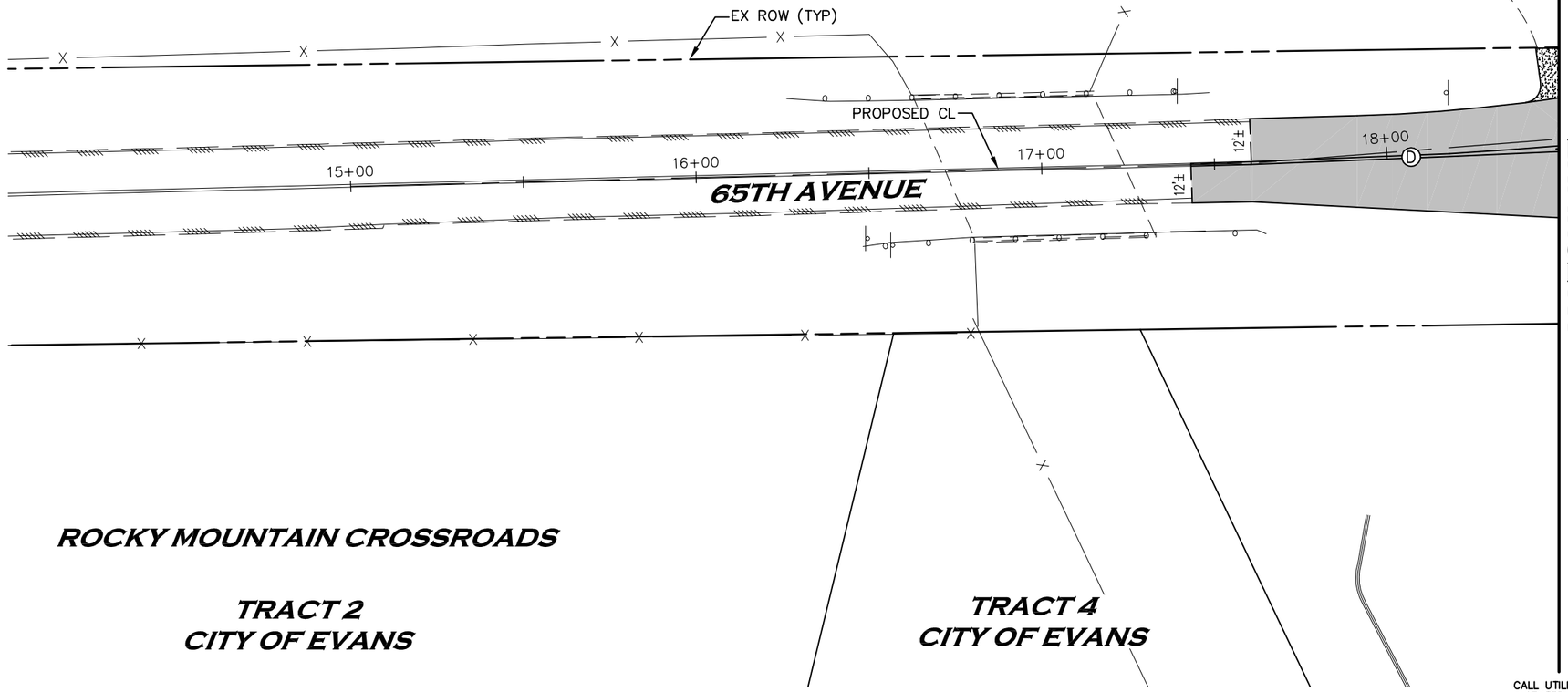
20 10 0 20 40
SCALE: 1" = 40'

SAINT MICHAEL'S RESERVOIR ESTATE LLC

095921000040

SAINT MICHAEL'S RESERVOIR ESTATE LLC

095921000040



ROCKY MOUNTAIN CROSSROADS

TRACT 2
CITY OF EVANS

TRACT 4
CITY OF EVANS

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information			Index of Revisions		
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Last Modification Date: 10/12/16	Initials: JDL				
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Drawing File Name: 1138-083-03 STR.dwg					
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH			

City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN			Project No./Code
No Revisions:	STA 15+00 TO STA 18+50			STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 87

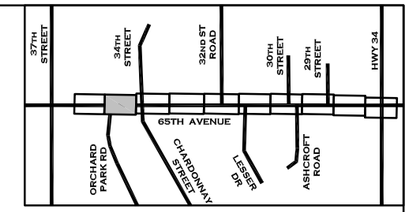
NOTE:

1. ALL PAVEMENT MARKINGS TO BE DONE IN PAVEMENT MARKING PAINT IN ACCORDANCE WITH CITY OF GREELEY AND/OR MUTCD STANDARDS.
2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.
3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

STRIPING LEGEND

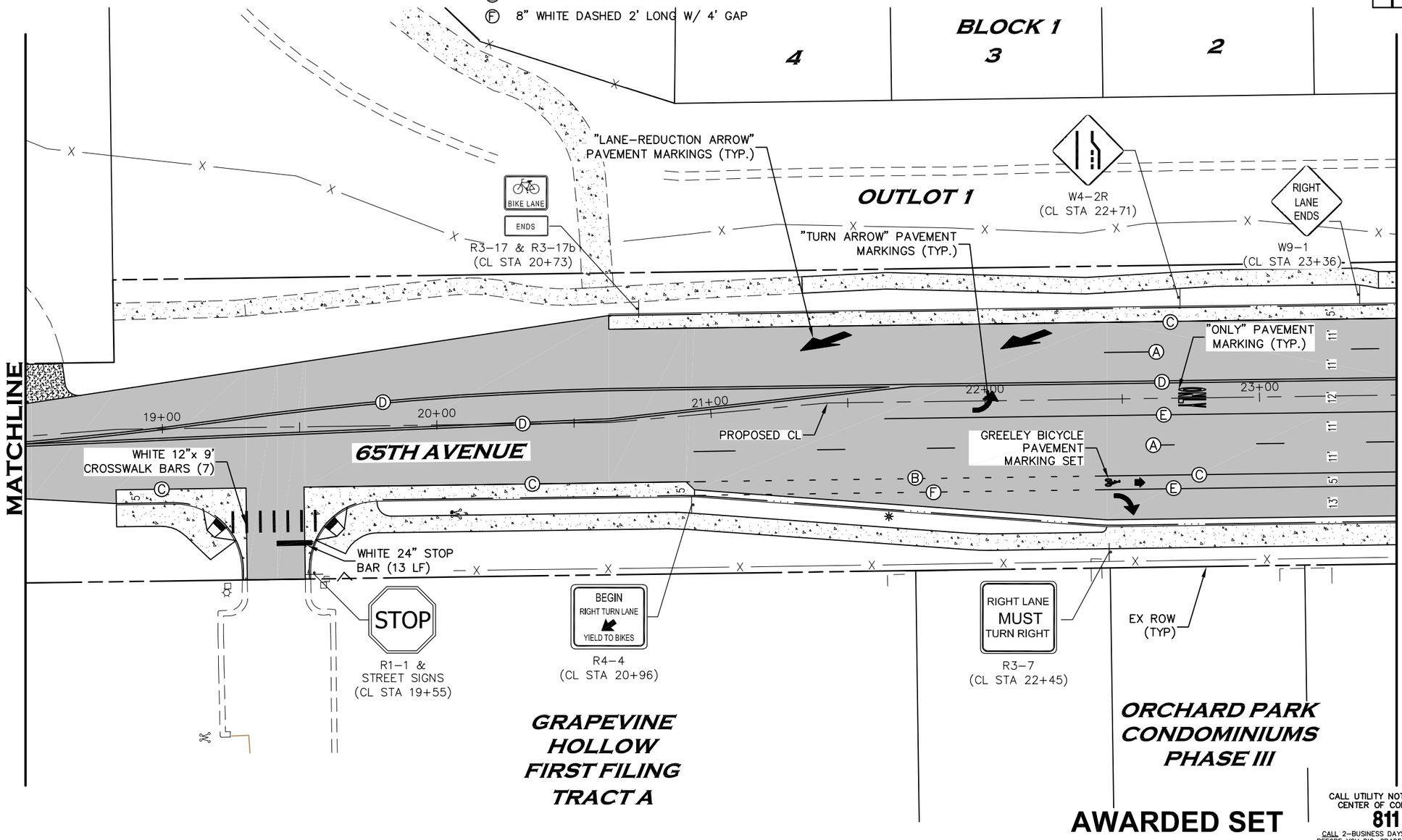
- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS



20 10 0 20 40

SCALE: 1" = 40'



COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2–BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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Creation Date: 06/10/15	Initials: JDL
Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138–083–03 STR.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions

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City of Greeley Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970–350–2126
FAX: 970–350–2198
Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN STA 18+50 TO STA 23+50			Project No./Code
No Revisions:				STU M570–046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 88

NOTE:
1. ALL PAVEMENT MARKINGS TO BE DONE IN PAVEMENT MARKING PAINT IN ACCORDANCE WITH CITY OF GREELEY AND/OR MUTCD STANDARDS.

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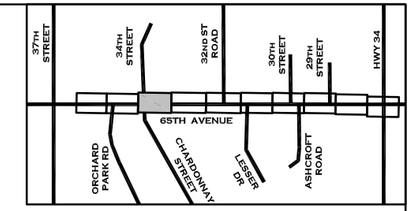
3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

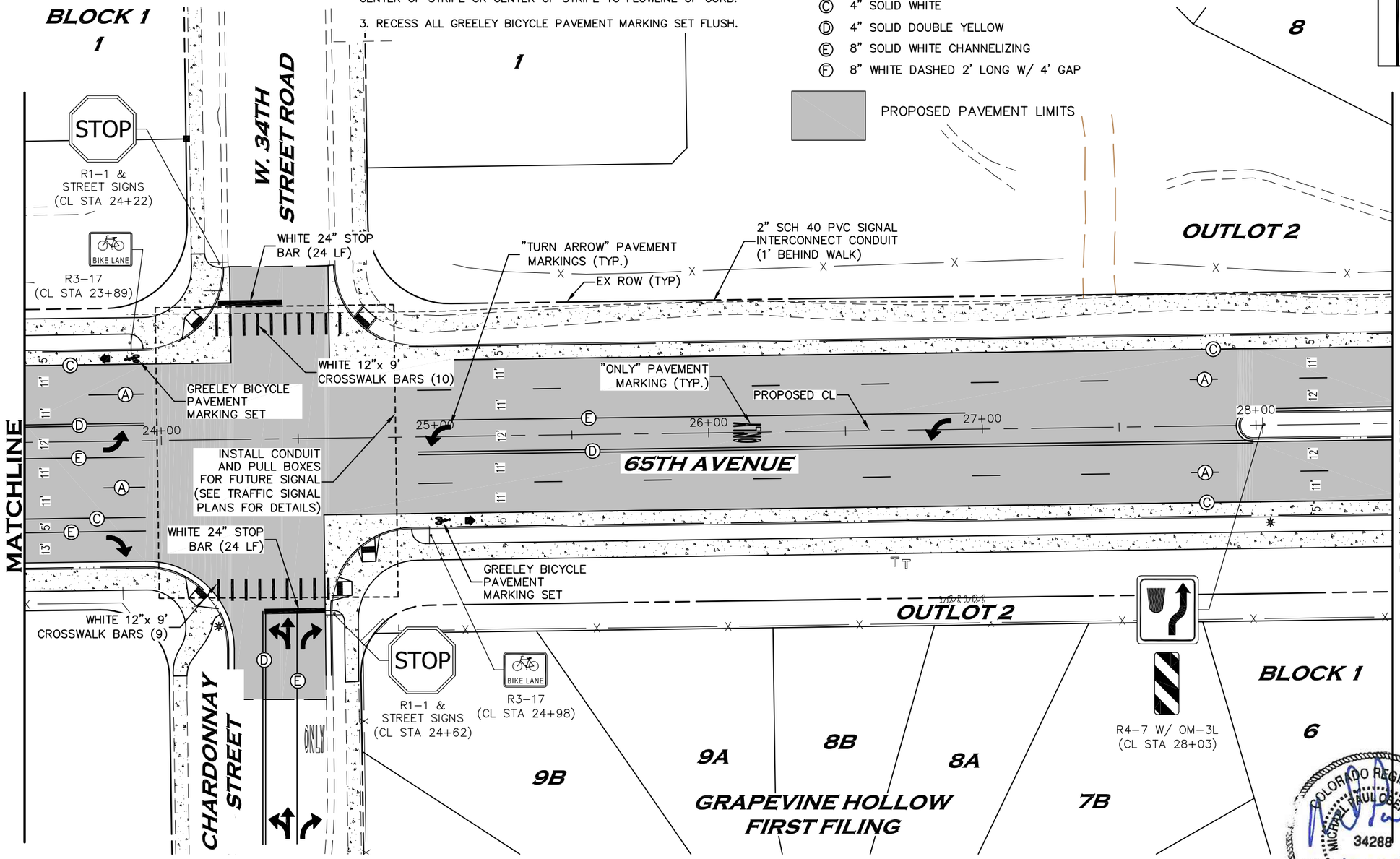
STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS

20 10 0 20 40
SCALE: 1" = 40'





AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL DEFRANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information		Index of Revisions					
Creation Date: 06/10/15	Initials: JDL						
Last Modification Date: 10/12/16	Initials: JDL						
Full Path:							
Drawing File Name: 1138-083-03 STR.dwg							
Acad Ver. 2007	Scale: 1"=40' Units: ENGLISH						

City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
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10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN	Project No./Code
No Revisions:	STA 23+50 TO STA 28+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 89
	Sheet Subset:	Subset Sheet::

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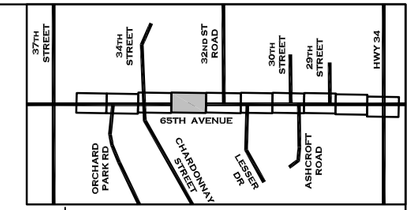
1. ALL PAVEMENT MARKINGS TO BE DONE IN PAVEMENT MARKING PAINT IN ACCORDANCE WITH CITY OF GREELEY AND/OR MUTCD STANDARDS.
2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.
3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

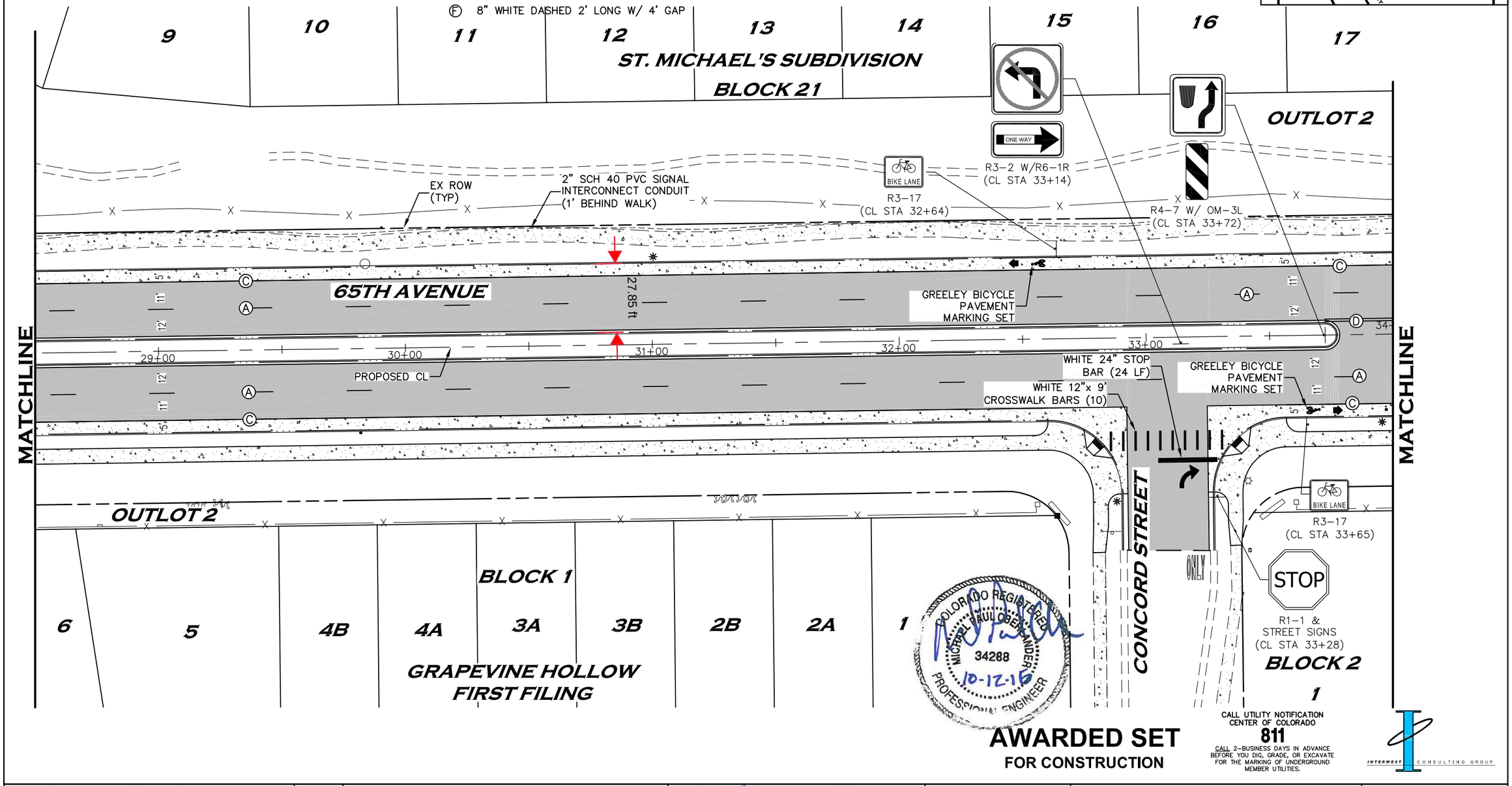
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- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS

20 10 0 20 40
SCALE: 1" = 40'





AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

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City of Greeley
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10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN	Project No./Code
No Revisions:	STA 28+50 TO STA 34+00	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 90
	Sheet Subset: / Subset Sheet::	

NOTE:
1. ALL PAVEMENT MARKINGS TO BE DONE IN PAVEMENT MARKING PAINT IN ACCORDANCE WITH CITY OF GREELEY AND/OR MUTCD STANDARDS.

2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.

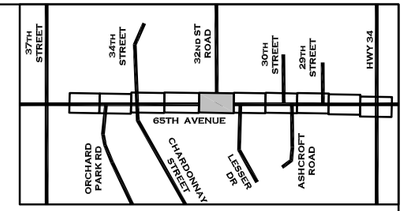
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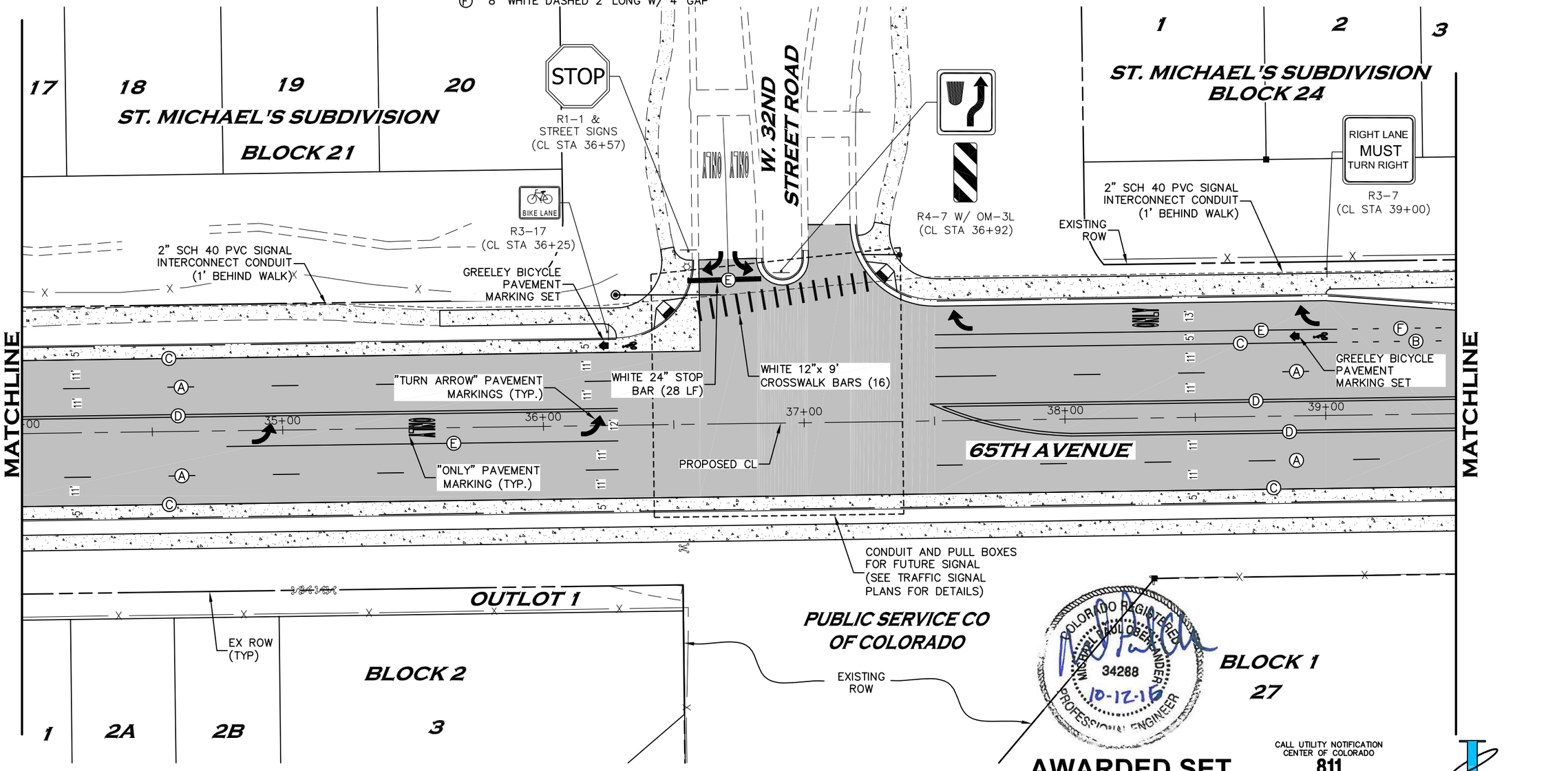
STRIPING LEGEND

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- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS

20 10 0 20 40
SCALE: 1" = 40'





COLORADO REGISTERED MICHAEL JAMES OSBORNE 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information	
Creation Date: 06/10/15	Initials: JDL
Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 STR.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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City of Greeley
City of Greeley Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN STA 34+00 TO STA 39+50			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 91

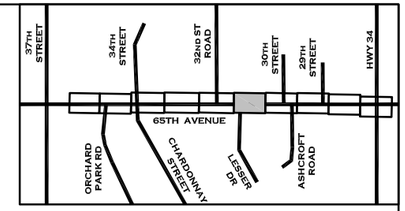
PROPOSED PAVEMENT LIMITS

NOTE:

1. ALL PAVEMENT MARKINGS TO BE DONE IN PAVEMENT MARKING PAINT IN ACCORDANCE WITH CITY OF GREELEY AND/OR MUTCD STANDARDS.
2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.
3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP



20 10 0 20 40
SCALE: 1" = 40'

ST. MICHAEL'S SUBDIVISION
BLOCK 24
3 4 5 6

OUTLOT D

OUTLOT 8

BEGIN RIGHT TURN LANE
YIELD TO BIKES
R4-4
(CL STA 40+53)

EXISTING ROW

"TURN ARROW" PAVEMENT MARKINGS (TYP.)

EX ROW (TYP)

2" SCH 40 PVC SIGNAL INTERCONNECT CONDUIT (1' BEHIND WALK)

MATCHLINE

65TH AVENUE

40+00 41+00 42+00 43+00 44+00

PROPOSED CL

"ONLY" PAVEMENT MARKING (TYP.)

WHITE 12"x 9' CROSSWALK BARS (8)

GREELEY BICYCLE PAVEMENT MARKING SET

BIKE LANE
R3-17
(CL STA 41+29)

WHITE 24" STOP BAR (16 LF)

STOP
R1-1 &
STREET SIGNS
(CL STA 41+00)

LESSER DRIVE

BLOCK 1
27

ASHTON ESTATES
BLOCK 2
8

R4-7 W/ OM-3L
(CL STA 43+31)

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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INTERWEST CONSULTING GROUP

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Greeley, CO 80634
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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

SIGNING & STRIPING PLAN
STA 39+50 TO STA 44+50

Designer: J. LOFTON
Detailer: S. WEIER
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER 92

NOTE:
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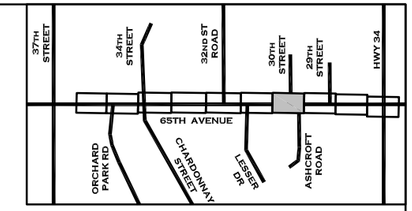
2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.

3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

PROPOSED PAVEMENT LIMITS



20 10 0 20 40
SCALE: 1" = 40'

ST. MICHAEL'S TOWN CENTER 2ND FILING

BLOCK 1

1

ST. MICHAEL'S ENTRANCE

EX 'STOP' SIGN (TO REMAIN)

BIKE LANE
R3-17
(CL STA 47+22)

2" SCH 40 PVC SIGNAL INTERCONNECT CONDUIT (1' BEHIND WALK)

EX ROW (TYP)

GREELEY BICYCLE PAVEMENT MARKING SET

WHITE 24" STOP BAR (18 LF)

2" SCH 40 PVC SIGNAL INTERCONNECT CONDUIT (1' BEHIND WALK)

"TURN ARROW" PAVEMENT MARKINGS (TYP.)

WHITE 12"x 9' CROSSWALK BARS (8)

MATCHLINE

65TH AVENUE

45+00 46+00 47+00 48+00 49+00

PROPOSED CL

GREELEY BICYCLE PAVEMENT MARKING SET

MATCHLINE

ASHTON ESTATES

BLOCK 2

1

ONE WAY
R3-2 W/ R6-1R
(CL STA 47+57)

R4-7 W/ OM-3L
(CL STA 48+28)

WHITE 12"x 9' CROSSWALK BARS (8)

WHITE 24" STOP BAR (16 LF)

ASHCROFT ROAD

BIKE LANE
R3-17
(CL STA 49+23)

STOP
R1-1 &
STREET SIGNS
(CL STA 48+91)

AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED
MICHAEL PAUL OSTLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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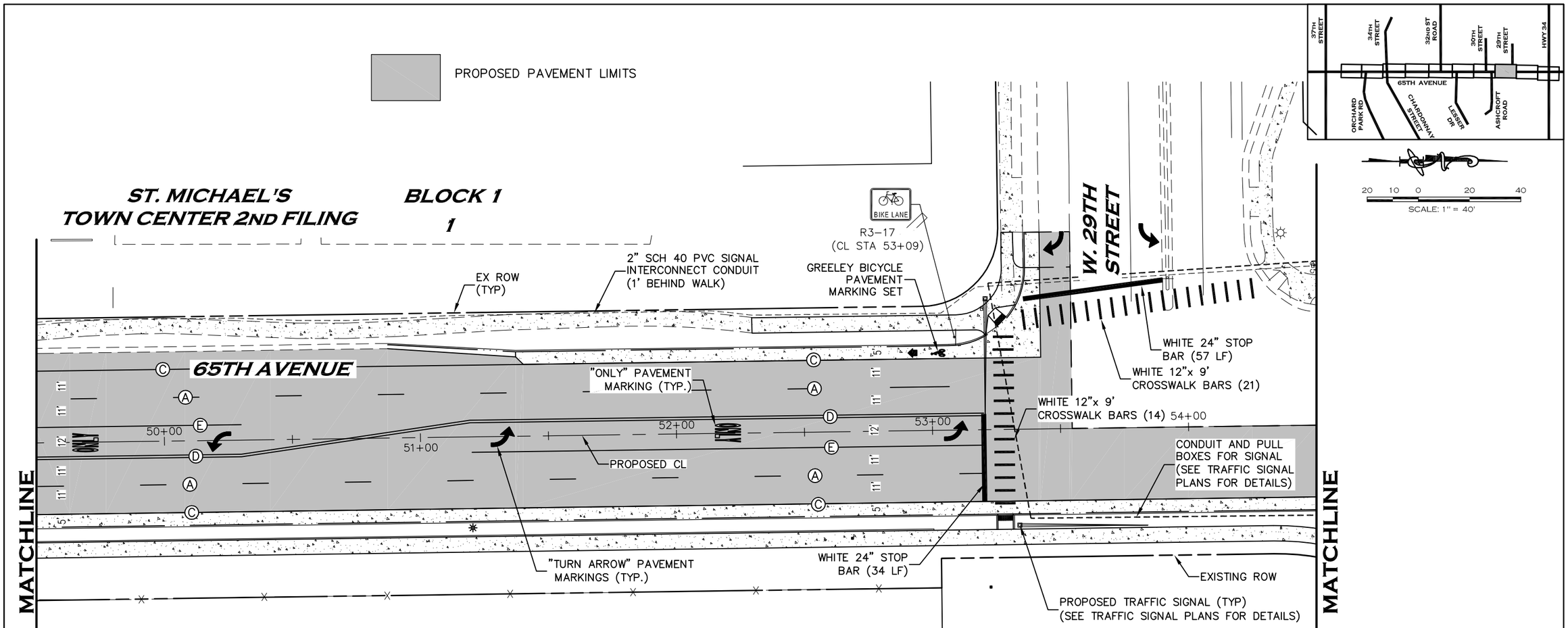
INTERWEST CONSULTING GROUP

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As Constructed	SIGNING & STRIPING PLAN	Project No./Code
No Revisions:	STA 44+50 TO STA 49+50	STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 93
	Sheet Subset:	Subset Sheet::



ASHTON ESTATES

BLOCK 1

1

NOTE:

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STRIPING LEGEND

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- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
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- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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As Constructed	SIGNING & STRIPING PLAN	Project No./Code
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Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 94
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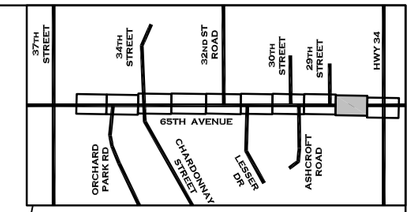
PROPOSED PAVEMENT LIMITS

NOTE:

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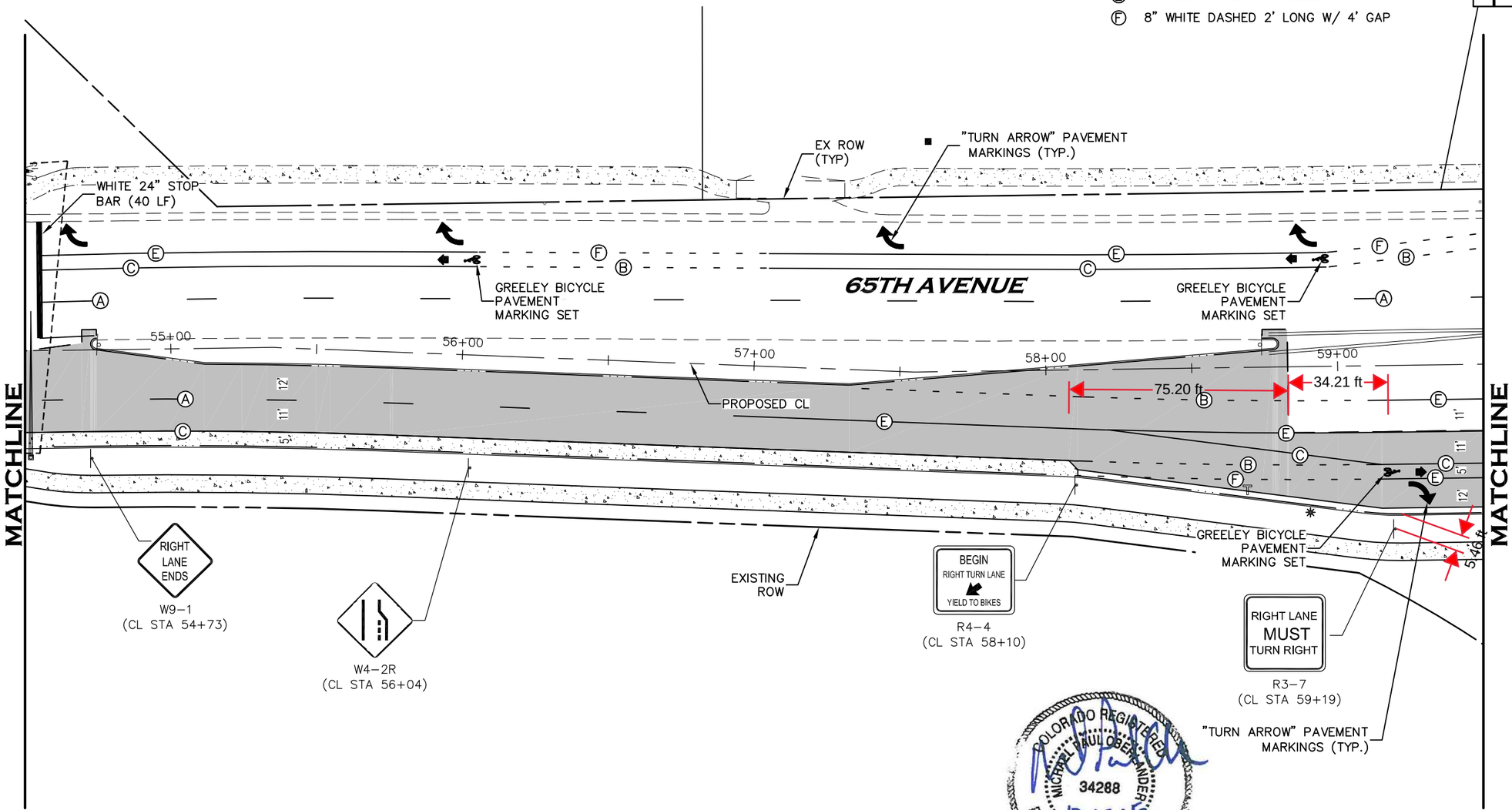
STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP



20 10 0 20 40

SCALE: 1" = 40'



COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

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INTERWEST CONSULTING GROUP

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Phone: 970-350-2126
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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

SIGNING & STRIPING PLAN
STA 54+50 TO STA 59+50

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 95

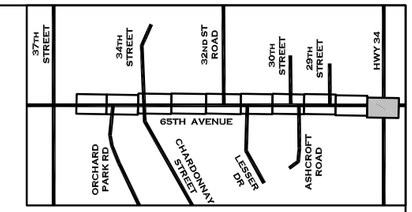
PROPOSED PAVEMENT LIMITS

NOTE:

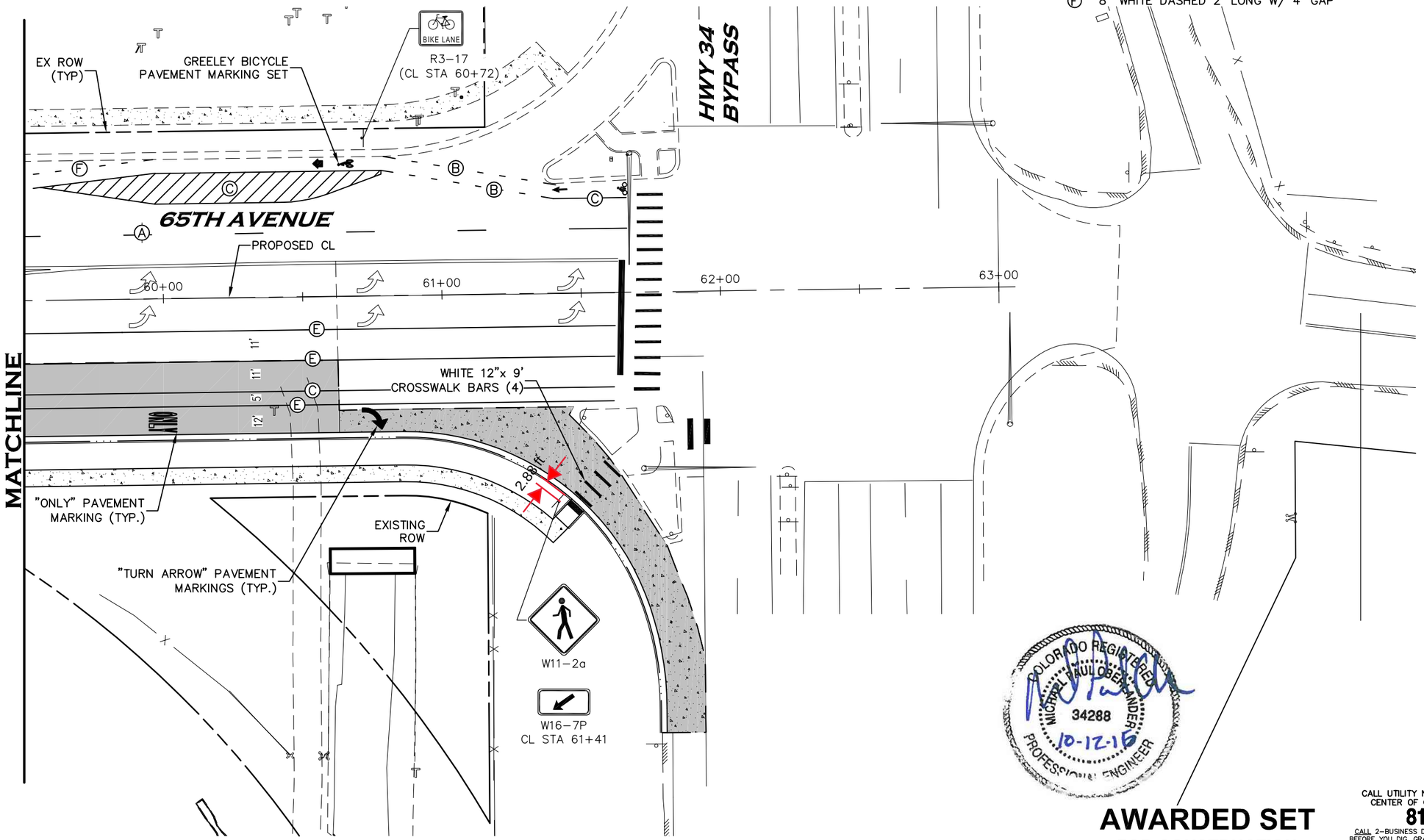
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2. DIMENSIONS SHOWN FOR STRIPING ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE OR CENTER OF STRIPE TO FLOWLINE OF CURB.
3. RECESS ALL GREELEY BICYCLE PAVEMENT MARKING SET FLUSH.

STRIPING LEGEND

- Ⓐ 4" WHITE DASHED 10' LONG W/ 30' GAP
- Ⓑ 4" WHITE DOTTED 2' LONG W/ 4' GAP
- Ⓒ 4" SOLID WHITE
- Ⓓ 4" SOLID DOUBLE YELLOW
- Ⓔ 8" SOLID WHITE CHANNELIZING
- Ⓕ 8" WHITE DASHED 2' LONG W/ 4' GAP



20 10 0 20 40
SCALE: 1" = 40'



COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

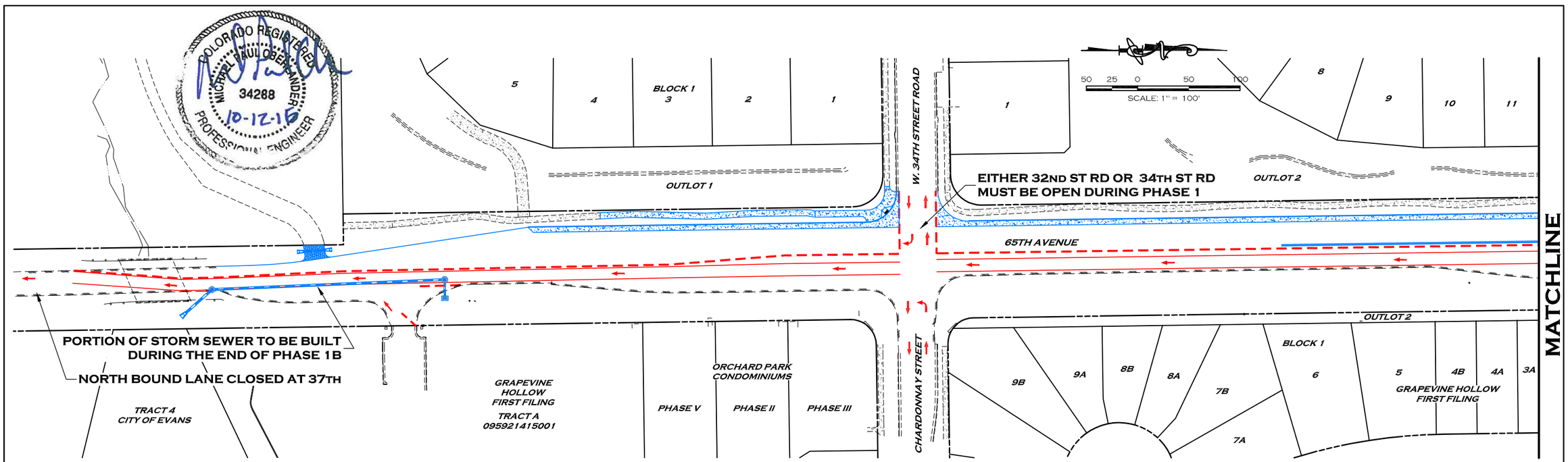
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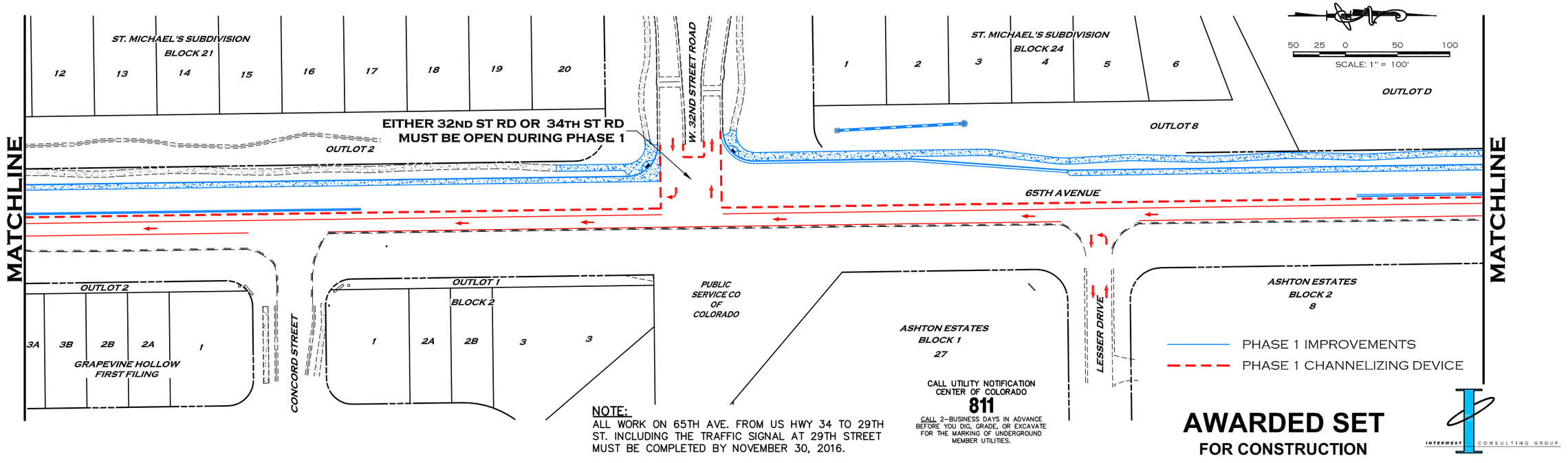
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Region 4 LHN

As Constructed	SIGNING & STRIPING PLAN STA 59+50 TO STA 63+00			Project No./Code
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Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 96
	Sheet Subset:	Subset Sheet::		





NOTE:
ALL WORK ON 65TH AVE. FROM US HWY 34 TO 29TH ST. INCLUDING THE TRAFFIC SIGNAL AT 29TH STREET MUST BE COMPLETED BY NOVEMBER 30, 2016.

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Drawing File Name: 1138-083-03 PHASE.dwg	
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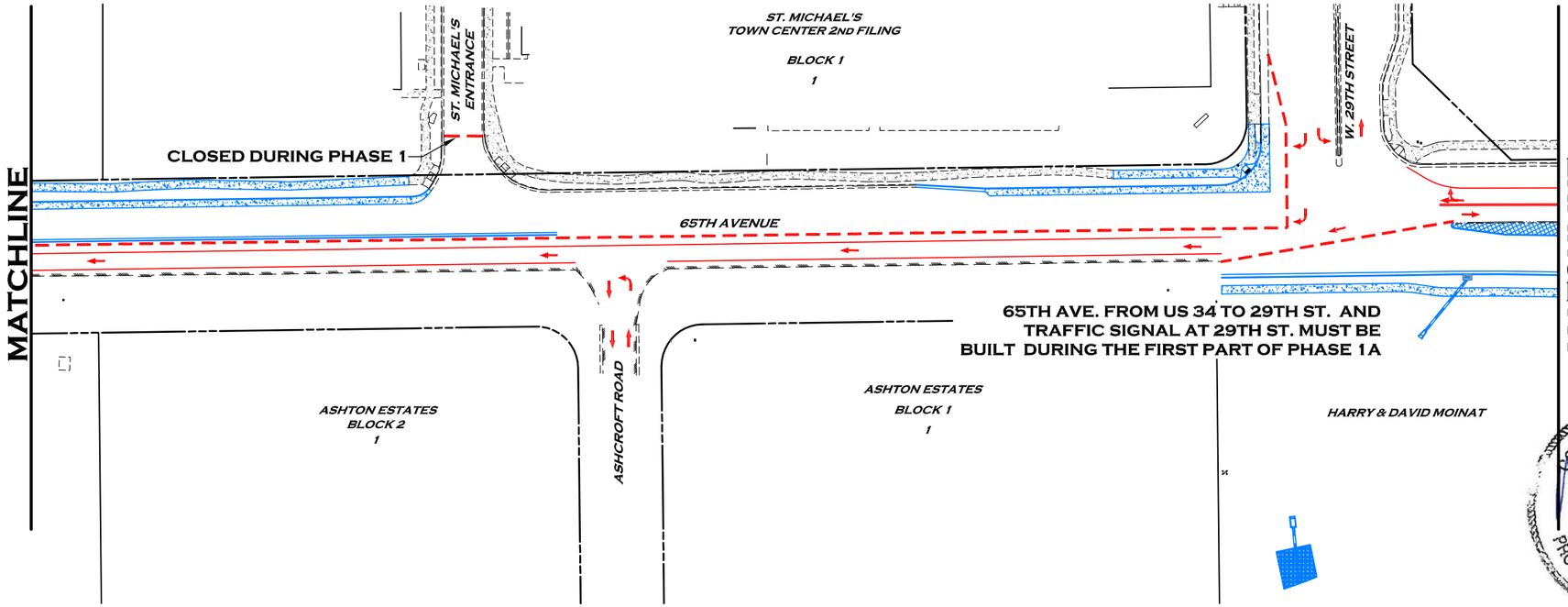
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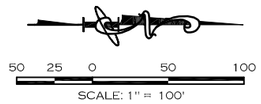
As Constructed	
No Revisions:	
Revised:	
Void:	

CONSTRUCTION PHASING PLAN
PHASE 1

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 97





NOTE:
ALL WORK ON 65TH AVE. FROM US HWY 34 TO 29TH ST. INCLUDING THE TRAFFIC SIGNAL AT 29TH STREET MUST BE COMPLETED BY NOVEMBER 30, 2016.

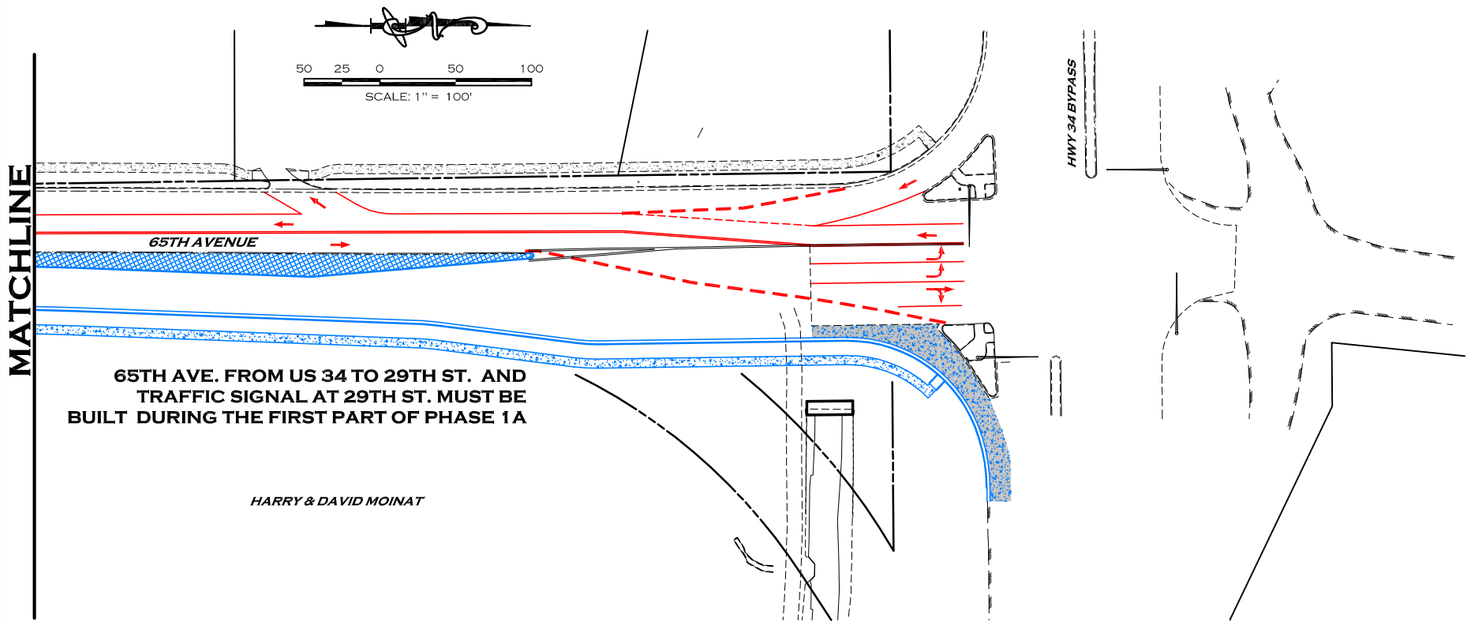
PHASE 1 IMPROVEMENTS

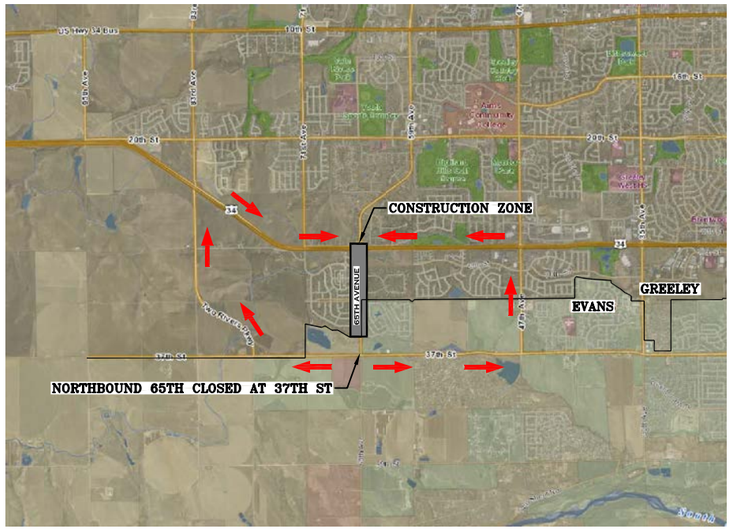
PHASE 1 CHANNELIZING DEVICE

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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PHASE 1 DETOUR ROUTE
NTS

INTERWEST CONSULTING GROUP

Computer File Information			Index of Revisions			CDOT	As Constructed	CONSTRUCTION PHASING PLAN	Project No./Code
Creation Date: 06/10/15	Initials: JDL						No Revisions:	PHASE 1	STU M570-046
Last Modification Date: 10/12/16	Initials: JDL					City of Greeley Engineering Dept. 1001 9th Avenue Greeley, CO 80631 Phone: 970.350.9881	Revised:	Designer: J. LOFTON	20148
Full Path:						10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2126 FAX: 970-350-2198 Region 4 LHN	Void:	Detailer: S. WEIER	SHEET NUMBER 98
Drawing File Name: 1138-083-03 PHASE.dwg								Sheet Subset:	Subset Sheet::
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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

SCALE: 1" = 100'

5 4 BLOCK 1 3 2 1

OUTLOT 1

W. 34TH STREET ROAD

1 8 9 10 11

OUTLOT 2

65TH AVENUE

16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00

CLOSED DURING PHASE 2

GRAPEVINE HOLLOW FIRST FILING
TRACT A
095921415001

ORCHARD PARK CONDOMINIUMS

PHASE V PHASE II PHASE III

TRACT 4
CITY OF EVANS

CHARDONNAY STREET

CHARDONNAY ST MUST BE OPEN DURING PHASE 2

OUTLOT 2

BLOCK 1

9B 9A 8B 8A 7B 7A 6 5 4B 4A 3A

GRAPEVINE HOLLOW FIRST FILING

MATCHLINE

ST. MICHAEL'S SUBDIVISION
BLOCK 21
12 13 14 15 16 17 18 19 20

OUTLOT 2

W. 32ND STREET ROAD

ST. MICHAEL'S SUBDIVISION
BLOCK 24
1 2 3 4 5 6

OUTLOT 8

SCALE: 1" = 100'

OUTLOT D

65TH AVENUE

31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00

MATCHLINE

OUTLOT 2

3A 3B 2B 2A 1

GRAPEVINE HOLLOW FIRST FILING

CONCORD STREET

CLOSED DURING PHASE 2

OUTLOT 1
BLOCK 2
1 2A 2B 3 3

PUBLIC SERVICE CO OF COLORADO

EITHER LESSER DR OR ASHCROFT RD MUST BE OPEN DURING PHASE 2

ASHTON ESTATES
BLOCK 1
27

LESSER DRIVE

ASHTON ESTATES
BLOCK 2
8

PHASE 1 IMPROVEMENTS
PHASE 2 IMPROVEMENTS
PHASE 2 CHANNELIZING DEVICE

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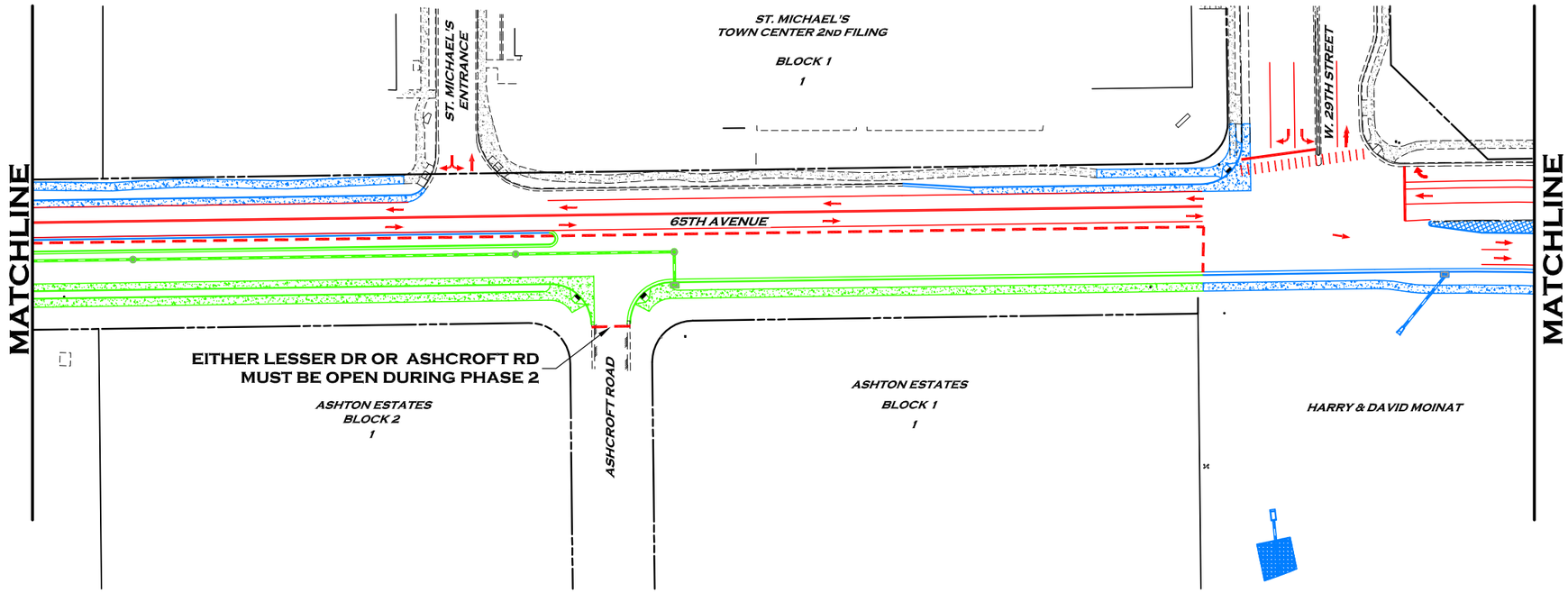
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Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

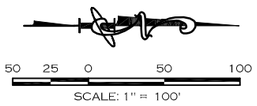
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Revised:	
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CONSTRUCTION PHASING PLAN
PHASE 2

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 99



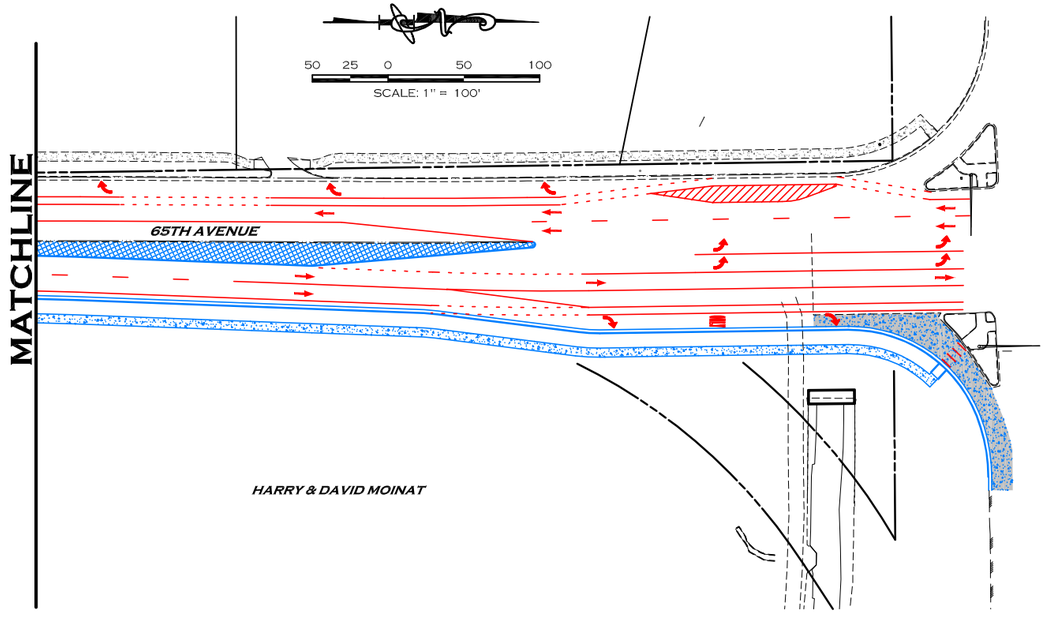


PHASE 1 IMPROVEMENTS
PHASE 2 IMPROVEMENTS
PHASE 2 CHANNELIZING DEVICE

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP



65TH AVE TRAFFIC CONTROL AND PHASING PLAN:

1. ALL METHODS OF HANDLING TRAFFIC (MHT'S) FOR THE PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, SUBMITTING AND OBTAINING APPROVAL FROM THE CITY AND CDOT OF ALL MHT'S FOR THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND LABOR REQUIRED TO IMPLEMENT THE MHT'S.

3. 65TH AVENUE TRAFFIC MAY BE SHIFTED WITHIN THE LIMITS OF THE PAVEMENT AS NECESSARY FOR CONSTRUCTION WITH ADEQUATE TRAFFIC CONTROL DEVICES.

4. SPEED REDUCTIONS ON 65TH AVENUE WILL BE ALLOWED.

5. THE CITY WILL WORK WITH THE CONTRACTOR TO SCHEDULE UNIFORMED TRAFFIC CONTROL AS NEEDED FOR THE PROJECT. THE CONTRACTOR WILL PAY FOR UNIFORMED TRAFFIC CONTROL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY'S TRAFFIC DEPARTMENT 48-HOURS PRIOR TO NEEDING UNIFORMED TRAFFIC CONTROL.

6. GENERAL PHASING AND TRAFFIC IS AS FOLLOWS:

- THE CONTRACTOR SHALL ALLOW TWO WAY TRAFFIC FROM US HWY 34 BYPASS TO 29TH STREET THROUGHOUT THE DURATION OF THE PROJECT.
- ALL WORK ON 65TH AVE FROM US HWY 34 TO 29TH STREET INCLUDING THE TRAFFIC SIGNAL AT 29TH STREET MUST BE DONE DURING PHASE 1A AND COMPLETED BY NOVEMBER 30, 2016.
- FOR THE FIRST 90 DAYS OF THE PROJECT THE CONTRACTOR SHALL ALLOW ONE SOUTH BOUND LANE OPEN FROM 29TH STREET TO 37TH STREET WITH APPROPRIATE DETOURS.
- FROM 91 DAYS TO 150 DAYS THE CONTRACTOR SHALL ALLOW ONE LANE OF TRAFFIC IN EACH DIRECTION.
- ON DAY 151 ALL LANES SHALL BE AVAILABLE TO TRAFFIC.

7. A 90 CALENDAR DAY SHUTDOWN IS ANTICIPATED DURING THE WINTER. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER 10 DAYS PRIOR TO WINTER SHUTDOWN AND 10 DAYS PRIOR TO RE-MOBILIZATION. THE SITE SHALL BE SECURE DURING THE WINTER SHUTDOWN WITH 2-WAY TRAFFIC. THE TRAFFIC CONTROL INSPECTION WILL BE REQUIRED THROUGHOUT THE WINTER SHUTDOWN.

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

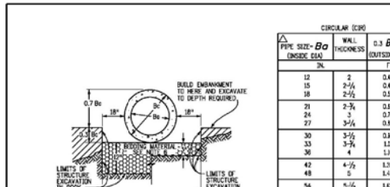
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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions		

CDOT
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	CONSTRUCTION PHASING PLAN PHASE 2			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 100
	Sheet Subset:	Subset Sheet::		



NOTE: Bc IS THE OUTSIDE DIMENSION FOR DIAMETER, SPAN OR RISE.

PIPE INSTALLATION
(WITH 0.7 PROJECTION RATIO)

△ PIPE SIZE- Bc (INSIDE DIA)	WALL THICKNESS	0.3 Bc (OUTSIDE DIA)
IN.	IN.	FT.
12	2	0.40
15	2-1/4	0.49
18	2-1/2	0.58
21	2-3/4	0.66
24	3	0.75
27	3-1/4	0.84
30	3-1/2	0.92
33	3-3/4	1.01
36	4	1.10
42	4-1/2	1.18
48	5	1.45
54	5-1/2	1.62
60	6	1.80
66	6-1/2	1.97
72	7	2.25
78	7-1/2	2.32
84	8	2.50
90	8-1/2	2.88
96	9	2.85
102	9-1/2	3.22
108	10	3.20

CIRCULAR (CR)			VERTICAL ELLIPTICAL (VE)				HORIZONTAL ELLIPTICAL (HE)			
SPAN	RISE	WALL THICKNESS	SPAN	RISE	WALL THICKNESS	1.3 OUTSIDE RISE	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE
IN.			IN.			FT.	IN.			FT.
							23	14	2-3/4	0.49
							30	19	3-1/4	0.66
							34	22	3-1/2	0.73
							38	24	3-3/4	0.79
29	45	4-1/2	135	45	29	4-1/2	43	29	4-1/2	0.95
34	53	5	158	53	34	5	51	34	5	1.10
38	60	5-1/2	178	60	38	5-1/2	57	38	5-1/2	1.23
43	68	6	200	68	43	6	64	43	6	1.38
48	76	6-1/2	223	76	48	6-1/2	72	48	6-1/2	1.53
53	83	7	243	83	53	7	79	53	7	1.68
58	91	7-1/2	265	91	58	7-1/2	86	58	7-1/2	1.83
63	98	8	285	98	63	8	93	63	8	1.98
68	106	8-1/2	308	106	68	8-1/2	100	68	8-1/2	2.13
72	113	9	328	113	72	9	107	72	9	2.25
77	121	9-1/2	350	121	77	9-1/2	114	77	9-1/2	2.40
82	128	9-3/4	369	128	82	9-3/4	121	82	9-3/4	2.54
87	136	10	390	136	87	10	128	82	10	2.68

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

DIMENSIONS FOR REINFORCED CONCRETE PIPE
(FOR INFORMATION ONLY)

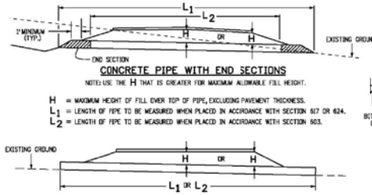
GENERAL NOTES

REINFORCED CONCRETE PIPE

1. ADEQUATE COVER SHALL BE PROVIDED DURING CONSTRUCTION TO PROTECT THE PIPE FROM DAMAGE. THE MINIMUM COVER SHALL BE AS SHOWN ON THESE TABLES OR CONFORM TO AASHTO REQUIREMENTS, WHICHEVER IS GREATER. THE MINIMUM COVER FOR REINFORCED CONCRETE PIPE IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT AND OR PCCP.
2. FILL HEIGHTS GREATER THAN MAXIMUM ALLOWED IN THE HEIGHTS OF FILL TABLE ON THIS SHEET REQUIRE SPECIAL DESIGN OF STRUCTURE.
3. PIPE DESIGN IS BASED ON SAFETY FACTOR OF 1.33 ON ULTIMATE STRENGTH.
4. THE HEIGHTS OF FILL OVER TOP OF PIPE ARE BASED ON UNIT WEIGHT OF SOIL AT 135 LBS. PER CUBIC FT.
5. PIPE CLASS IS DETERMINED FROM 0.01 IN CRACK 0-LOAD.
6. BEDDING IS CLASS B (MODIFIED) FROM CONCRETE PIPE DESIGN MANUAL-AMERICAN CONCRETE PIPE ASSOCIATION WITH SETTLEMENT RATIO R = 0.0 AT (YIELDING BED). BEDDING MATERIAL FOR RIGID PIPE IN SOIL SHALL BE 3" SLUDGE THICKNESS STRUCTURE BACKFILL CLASS 2. BEDDING MATERIAL FOR RIGID PIPE IN ROCK SHALL BE 12" IN LOOSE THICKNESS STRUCTURE BACKFILL CLASS 1.
7. CHANGES IN DESIGN FACTORS REQUIRE COMPENSATING CHANGES IN PIPE DESIGN.
8. MINIMUM WALL THICKNESS DIMENSIONS ARE BASED ON AASHTO M 170 (WALL B) FOR CIRCULAR PIPE, AND AASHTO M 207 FOR ELLIPTICAL PIPE.
9. SPACING FOR MULTIPLE PIPE INSTALLATIONS SHALL CONFORM TO THE DETAILS SHOWN ON STANDARD PLAN M-603-1.
10. WHEN A PIPE IS TO BE EXTENDED, THE SAME PIPE MATERIAL AND SIZE AS IN THE ORIGINAL PIPE INSTALLATION SHALL BE USED.

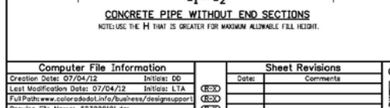
NONREINFORCED CONCRETE PIPE

1. AT THE OPTION OF THE CONTRACTOR, NONREINFORCED CONCRETE PIPE CONFORMING TO AASHTO M 86 MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE FOR ALL SIZES 36 INCHES IN DIAMETER AND SMALLER. THE NONREINFORCED CONCRETE PIPE SHALL MEET THE SAME 0.01INCH IS FRACTURE THE ULTIMATE LOAD UNDER THE THREE-EDGE BEARING METHOD AS SPECIFIED FOR REINFORCED CONCRETE PIPE IN CONFORMANCE WITH AASHTO M 170. THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION OF CONFORMANCE. THE WALL THICKNESS OF THE NONREINFORCED PIPE MAY BE INCREASED AS REQUIRED TO MEET D-LOAD REQUIREMENT.
2. ALL REQUIREMENTS FOR REINFORCED CONCRETE PIPE, EXCEPT THOSE REFERRING TO REINFORCEMENT, SHALL APPLY TO NONREINFORCED CONCRETE PIPE.

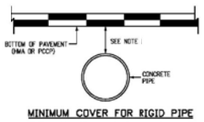


CONCRETE PIPE WITH END SECTIONS
NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

H = MAXIMUM HEIGHT OF FILL EVER TOP OF PIPE, EXCLUDING PAVEMENT THICKNESS.
L_1 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 617 OR 624.
L_2 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.



CONCRETE PIPE WITHOUT END SECTIONS
NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.



MINIMUM COVER FOR RIGID PIPE

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)			
	CLASS 'B' PIPE		(0.01 IN. CRACK @ D-LOAD)	
	CLASS CIR II CLASS VE II CLASS HE II 1000 D	CLASS CIR III CLASS VE III CLASS HE III 1350 D	CLASS CIR IV CLASS VE IV CLASS HE IV 2000 D	CLASS CIR V CLASS VE V 3000 D	CLASS VE VI 4000 D
CIRCULAR (CR)	MIN. TO 18	MIN TO 25	± 25 TO 37	± 37 TO 45	
VERTICAL ELLIPTICAL (VE)	MIN. TO 18	MIN TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62
HORIZONTAL ELLIPTICAL (HE)	MIN. TO 18	MIN TO 25	± 25 TO 37		

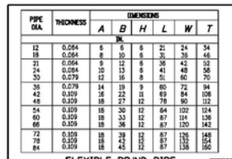
ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE
(ALL SIZES)

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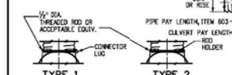
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

REINFORCED CONCRETE PIPE
Issued By: Project Development Branch on July 4, 2012

STANDARD PLAN NO. M-603-2
Sheet No. 1 of 1



PLAN VIEW



TYPE 1
FOR 15 IN. THRU 24 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS. NOT TO BE USED IN HELICALLY-FORMED PIPE UNLESS RECORRUGATED.

TYPE 2
FOR 30 IN. THRU 36 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS. NOT TO BE USED IN HELICALLY-FORMED PIPE UNLESS RECORRUGATED.

TYPE 3
FOR 42 IN. THRU 84 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS AND ALL SIZES WITH HELICAL CORRUGATIONS AND FOR ALL METAL PIPE ARCH CULVERTS. SHOP ATTACH A 24 IN. MIN. LENGTH OF ANNULAR PIPE WITH GALV. RIVETS OR BOLTS, SPOT WELDS, OR 2 IN. LONG SKIP WELDS ON 8 IN. CTRS. REPAIR BURNT GALVANIZING IN ACCORDANCE WITH SUBSECTION 707.06.

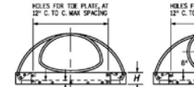
TYPICAL CONNECTIONS

PIPE DIA.	THICKNESS	DIMENSIONS A	B'	H	L	W	T
		IN.					
12	0.064	6	6	6	21	24	34
15	0.064	8	10	6	26	30	46
18	0.064	8	10	6	31	36	52
21	0.064	10	13	6	36	42	52
24	0.064	10	13	6	41	48	58
30	0.079	12	16	6	51	60	70
36	0.079	14	19	9	60	72	84
42	0.109	16	22	11	69	84	106
48	0.109	18	27	12	78	90	112
54	0.109	18	30	12	84	102	124
60	0.109	18	33	12	87	114	136
66	0.109	18	36	12	87	120	142
72	0.109	18	39	12	87	126	148
78	0.109	18	42	12	87	132	154
84	0.109	18	45	12	87	138	160

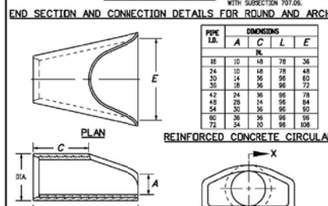
FLEXIBLE ROUND PIPE

PIPE ARCH SPAN x RISE	THICKNESS	DIMENSIONS A (AAPA)	B (AAPA)	H (AAPA)	L (AASHTO)	W (AASHTO)	T (AASHTO)
		IN.					
23 x 15	0.064	7	10	6	23	36	48
24 x 18	0.064	8	12	6	28	42	52
28 x 20	0.064	9	14	6	32	48	58
35 x 24	0.079	10	16	6	39	60	70
42 x 29	0.079	12	18	6	46	75	85
49 x 33	0.109	13	21	9	53	85	103
57 x 38	0.109	15	26	12	63	90	108
64 x 43	0.109	18	30	12	73	102	120
71 x 47	0.109	18	33	12	77	114	132

FLEXIBLE PIPE ARCH



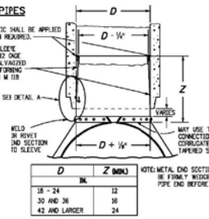
ELEVATIONS



END SECTION AND CONNECTION DETAILS FOR ROUND AND ARCH METAL PIPES

PIPE I.D.	DIMENSIONS A	C	L	E
	IN.			
18	10	48	78	36
24	10	48	78	48
30	14	96	96	60
36	18	96	96	72
42	24	96	96	78
48	28	96	96	84
54	30	96	96	90
60	36	96	98	98
72	34	98	98	108

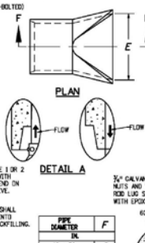
REINFORCED CONCRETE CIRCULAR PIPE



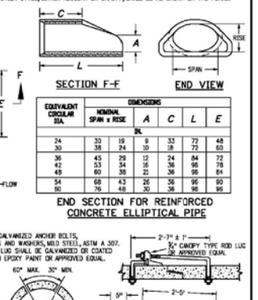
D	Z (MIN.)
IN.	
18 - 24	12
30 AND 36	16
42 AND LARGER	24

NOTE: METAL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING.

STEEL END SECTION FOR CONCRETE CIRCULAR PIPE
(ALTERNATIVE FOR CONCRETE END SECTION)



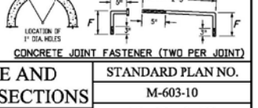
PIPE DIAMETER	F
IN.	
18 - 30	5
36 - 42	6
48 - 60	7
72 - 84	9



SECTION F-F **END VIEW**

EQUIVALENT CIRCULAR DIA.	DIMENSIONS NOMINAL SPAN x RISE	A	C	L	E
	IN.				
24	30 x 19	9	33	72	48
30	38 x 24	10	38	72	60
36	45 x 29	12	44	84	72
42	53 x 34	14	48	96	78
48	60 x 38	21	48	96	84
54	68 x 43	26	96	96	90
60	76 x 48	30	96	96	96

END SECTION FOR REINFORCED CONCRETE ELLIPTICAL PIPE



CONCRETE JOINT FASTENER (TWO PER JOINT)

GENERAL NOTES

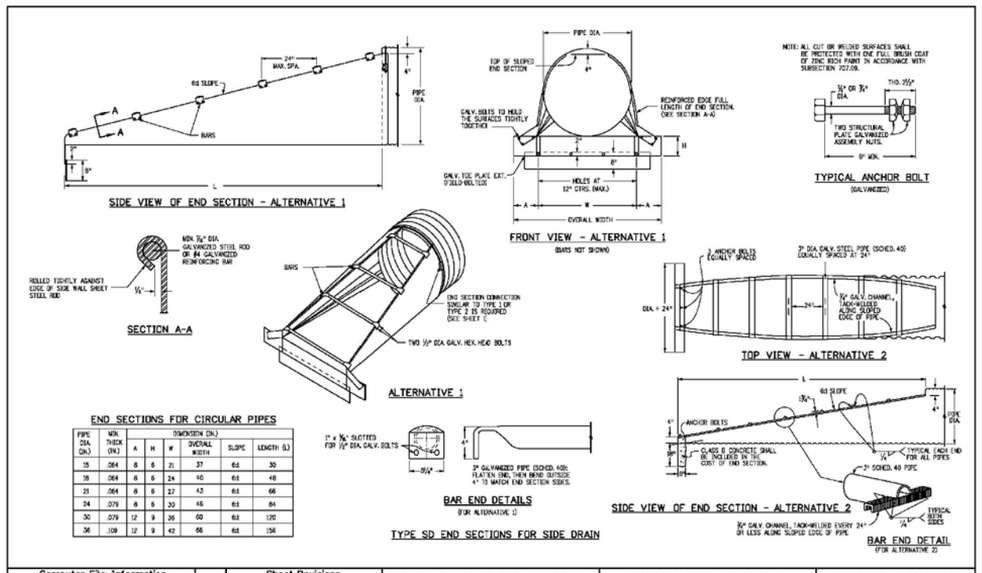
1. DIMENSIONS OF END SECTIONS MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLES DUE TO DIFFERENT MANUFACTURERS' CONFIGURATIONS.
2. CONCRETE END SECTIONS SHALL BE FURNISHED WITH TONGUE OR GROOVE AS REQUIRED.
3. DESIGN LENGTH OF PIPE OR SIDE DRAIN IS BASED ON LENGTH OF END SECTION SHOWN IN TABLE. ANY ADDITIONAL PIPE REQUIRED TO PROVIDE THE DESIGN LENGTH SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
4. THE INSIDE CONFIGURATION AND THE JOINT OF CONCRETE END SECTION AND PIPE SHALL MATCH.
5. END SECTIONS FOR CMP ARCH PIPE SHALL MATCH THE DIMENSIONS OF THE PIPE SHOWN ON THE PLANS.
6. GALVANIZED TOE PLATE AS SHOWN IS REQUIRED ON END SECTIONS FOR CORRUGATED STEEL PIPE AND METAL PIPE ARCH OF EQUAL OR GREATER THICKNESS. TOE PLATE SHALL BE FIELD-BOLTED TO END SECTION WITH ⅜" DIA GALVANIZED BOLTS, NUTS AND WASHERS.
7. GALVANIZED STEEL SHALL CONFORM TO AASHTO M 111, M 218 OR M 232.
8. FOR TYPE SD END SECTIONS, BARS SHALL BE FABRICATED FROM WPS-3 GALVANIZED STEEL SCHEDULE 40 PIPE WHICH SHALL CONFORM TO ASTM A 53.
9. FOR A TYPE SD END SECTION, THE INSTALLATION OF ALTERNATIVE 1 OR ALTERNATIVE 2 END SECTION SHALL BE THE CONTRACTOR'S OPTION.
10. CONCRETE PIPE JOINT FASTENERS, WHERE SHOWN ON PLANS, SHALL BE INSTALLED SO THAT A MINIMUM OF 1% LINEAR FEET OF THE OUTLET END OF THE PIPE ARE MECHANICALLY LOCKED TOGETHER. END SECTION LENGTHS WHEN USED, SHALL BE INCLUDED IN THE 1% LF REQUIREMENT.
11. CONNECTIONS OF METAL END SECTIONS TO PLASTIC PIPE SHALL BE APPROVED BY THE ENGINEER. PLASTIC END SECTIONS SHALL NOT BE USED.
12. THE END SECTION STYLE, EITHER REGULAR OR SAFETY, SHALL BE AS SHOWN ON THE PLANS.

Computer File Information		Sheet Revisions	
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Last Modification Date: 07/04/12	Initials: LTA		
Full Path: www.coloradodot.info/business/designsupport			
Drawing File Name: 603010002.dgn			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

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Project Development Branch DD/LTA

CONCRETE AND METAL END SECTIONS
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO. M-603-10
Sheet No. 1 of 2



END SECTIONS FOR CIRCULAR PIPES

PIPE DIA (IN.)	MIN. THICK (IN.)	DIMENSION (IN.) A	H	W	OVERALL WIDTH	SLOPE	LENGTH (L)
15	.064	8	6	21	37	6:1	30
18	.064	8	6	24	40	6:1	48
21	.064	8	6	27	43	6:1	66
24	.079	8	6	30	46	6:1	84
30	.079	12	9	36	60	6:1	120
36	.109	12	9	42	66	6:1	156

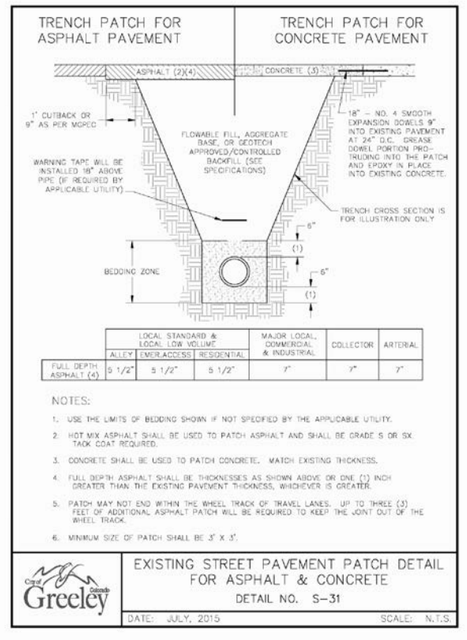
TYPE SD END SECTIONS FOR SIDE DRAIN

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Last Modification Date: 07/04/12	Initials: LTA		
Full Path: www.coloradodot.info/business/designsupport			
Drawing File Name: 603010002.dgn			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

CONCRETE AND METAL END SECTIONS
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO. M-603-10
Sheet No. 2 of 2



	LOCAL STANDARD & LOCAL LOW VOLUME ALLEY	LOCAL STANDARD & LOCAL LOW VOLUME RESIDENTIAL/ACCESS	MAJOR LOCAL, COMMERCIAL & INDUSTRIAL	COLLECTOR	ARTERIAL
FULL DEPTH ASPHALT (4)	5 1/2"	5 1/2"	7"	7"	7"

NOTES:
1. USE THE LIMITS OF BEDDING SHOWN IF NOT SPECIFIED BY THE APPLICABLE UTILITY.
2. HOT MIX ASPHALT SHALL BE USED TO PATCH ASPHALT AND SHALL BE GRADE S OR SX. TACK COAT REQUIRED.
3. CONCRETE SHALL BE USED TO PATCH CONCRETE. MATCH EXISTING THICKNESS.
4. FULL DEPTH ASPHALT SHALL BE THICKNESSES AS SHOWN ABOVE OR ONE (1) INCH GREATER THAN THE EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
5. PATCH MAY NOT END WITHIN THE WHEEL TRACK OF TRAVEL LANES. UP TO THREE (3) FEET OF ADDITIONAL ASPHALT PATCH WILL BE REQUIRED TO KEEP THE JOINT OUT OF THE WHEEL TRACK.
6. MINIMUM SIZE OF PATCH SHALL BE 3' X 3'.

City of Greeley

EXISTING STREET PAVEMENT PATCH DETAIL FOR ASPHALT & CONCRETE
DETAIL NO. S-31
DATE: JULY, 2015 SCALE: N.T.S.

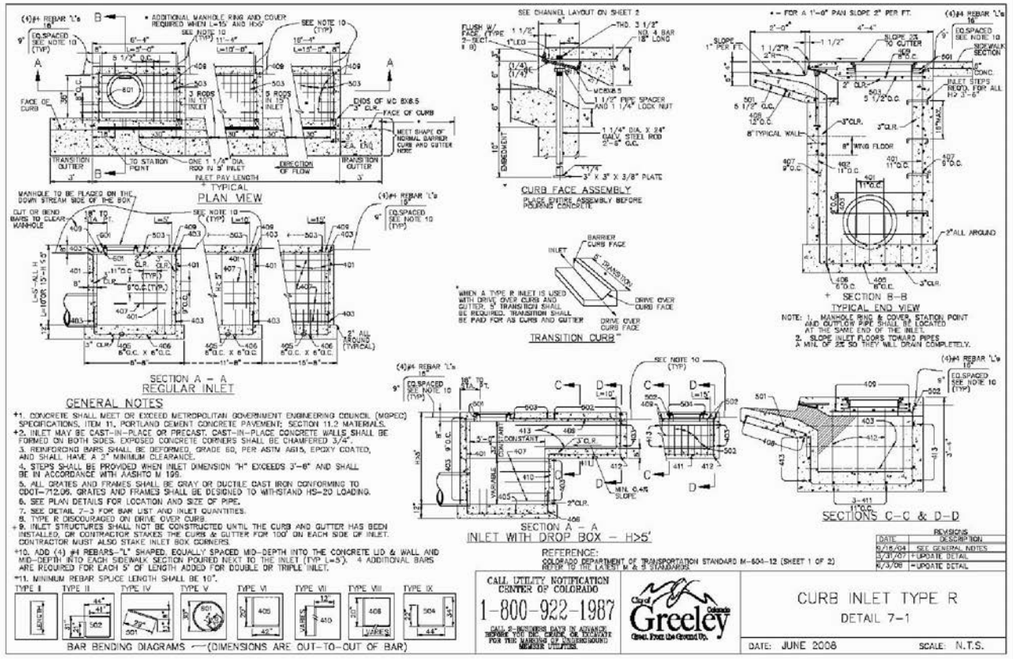
AWARDED SET
FOR CONSTRUCTION

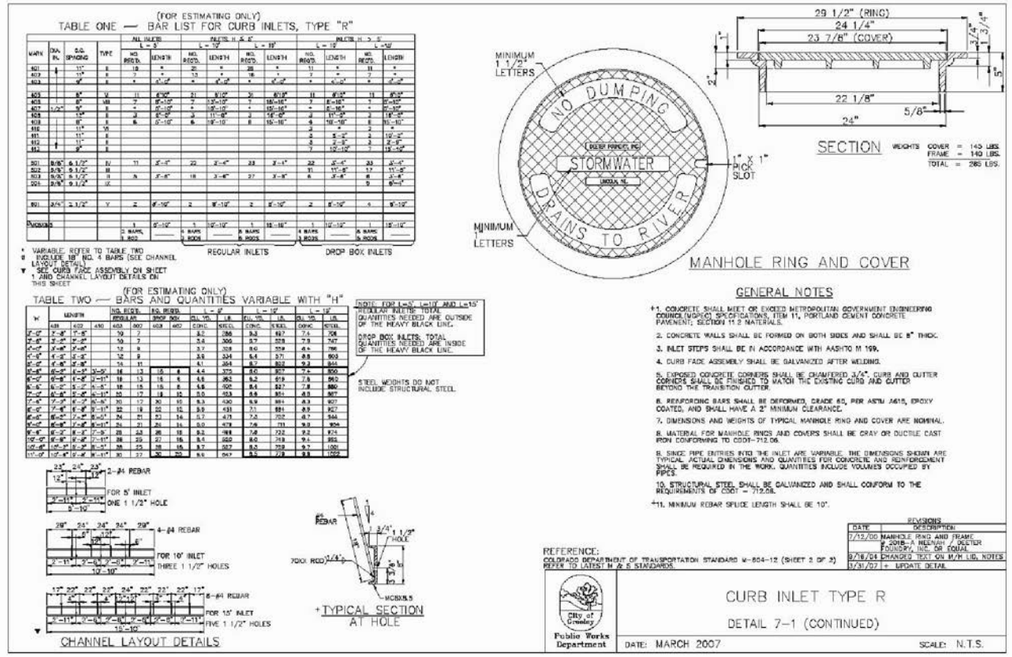
COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

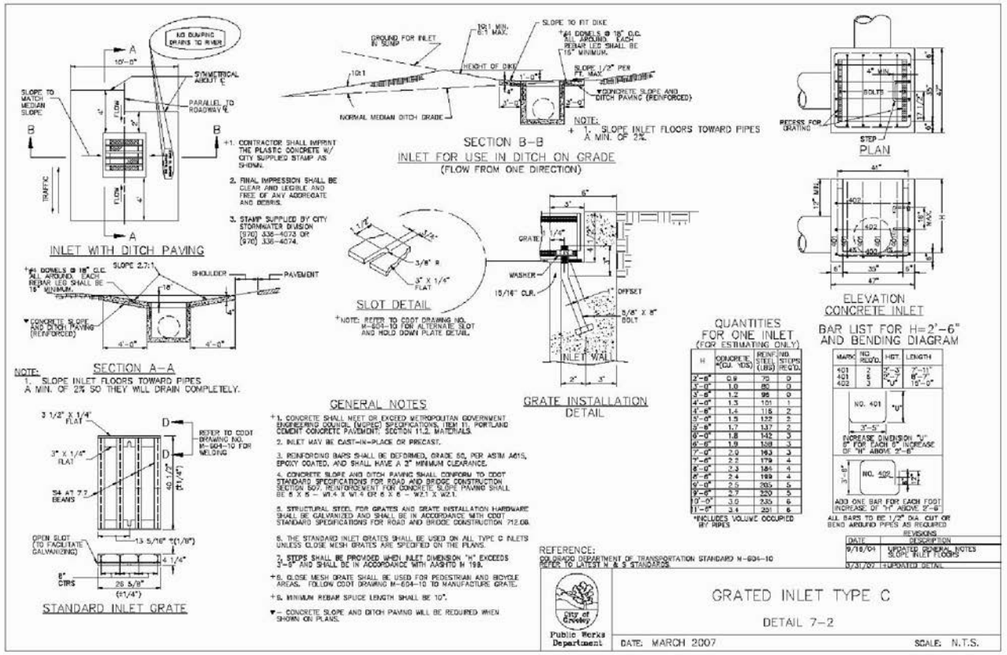
CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

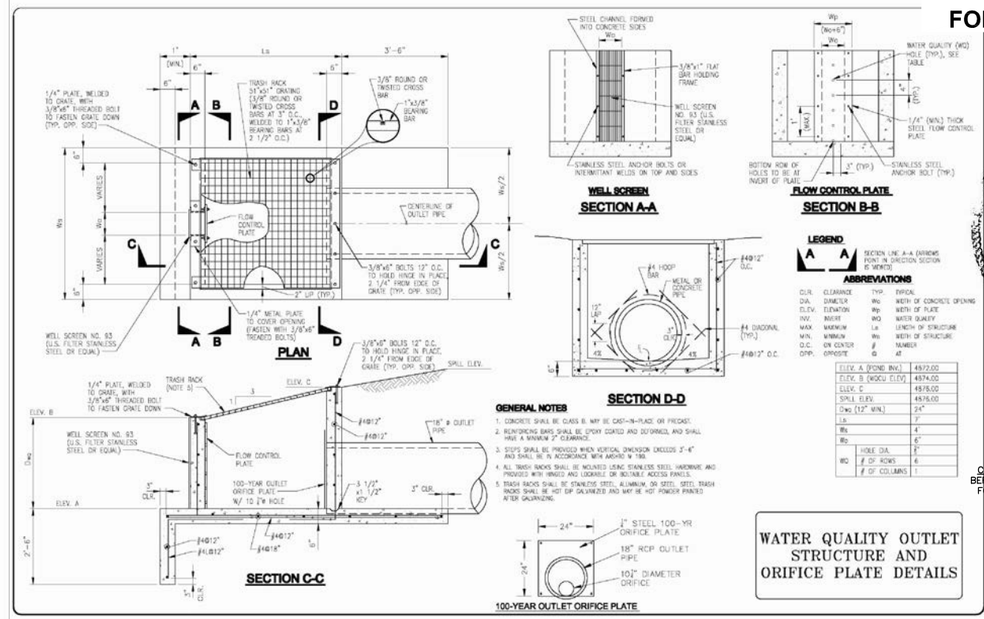
INTERWEST CONSULTING GROUP

Computer File Information		Index of Revisions			City of Greeley	CDOT	As Constructed	CONSTRUCTION DETAILS		Project No./Code
Creation Date: 06/10/15	Initials: STW				City of Greeley Engineering Dept. 1001 9th Avenue Greeley, CO 80631 Phone: 970.350.9881	10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2126 FAX: 970-350-2198 Region 4 LHN	No Revisions:			STU M570-046
Last Modification Date: 10/12/16	Initials: STW						Revised:	Designer: M. OBERLANDER		20148
Full Path:								Detailer: S. WEIER		
Drawing File Name: 1138-083-03 DT.dwg							Void:	Sheet Subset:	Subset Sheet::	SHEET NUMBER 101
Acad Ver. 2007 Scale: N/A	Units: ENGLISH									









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34288
10-12-16
PROFESSIONAL ENGINEER

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INTERWEST CONSULTING GROUP

| Computer File Information | | Index of Revisions | | |

STORMWATER GENERAL NOTES

1. BEDDING FOR ALL STORM DRAIN SHALL BE PER THE STANDARD STORM DRAIN BEDDING DETAILS - DETAILS 6-6 AND 6-7 FOR REINFORCED CONCRETE PIPE AND POLYWRAPPED DUCTILE IRON PIPE.

2. ALL STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO THE CITY OF GREELEY'S MOST RECENT STORM DRAINAGE SPECIFICATIONS. A COPY OF THE SPECIFICATIONS MAY BE OBTAINED FROM THE CITY OR FOUND ON THE CITY'S WEB PAGE - GREELEYGOV.COM.

3. RCP SHALL HAVE FLEXIBLE GASKET MATERIAL (WATER TIGHT RUBBER GASKETS) MEETING ASTM C443 AND TYPE 4-G BELL AND SPIGOT JOINTS. DUCTILE IRON PIPE SHALL BE POLYWRAPPED IN ACCORDANCE WITH AWWA STANDARD C-105.

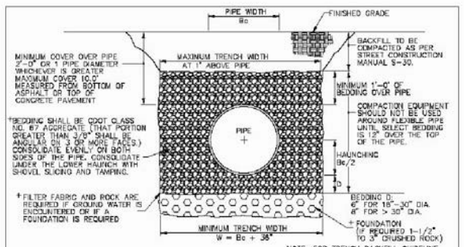
4. BACKFILL MATERIAL MAY BE LOCAL SITE MATERIAL THAT IS WELL-GRADED, NON-COHESIVE GRANULAR MATERIAL FREE OF ROCKS, FROZEN LUMPS, FOREIGN MATERIAL OR STONES GREATER THAN 3" IN ANY DIMENSION, AGGREGATE BASE COURSE, OR FLOWFILL. REMOVE ALL DEBRIS INCLUDING SODA CANS, RAGS, PIPE BANDING MATERIAL, ETC. FROM THE PIPE TRENCH BEFORE BACKFILLING.

5. ALL AREAS IMPACTED BY THE CONSTRUCTION SHALL BE CLEARED OF PROJECT GENERATED DEBRIS BY THE CONTRACTOR AT THE EARLIEST OPPORTUNITY, BUT IN NO CASE SHALL ANY ROADS OR WALKWAYS BE LEFT UNCLEARED AFTER THE COMPLETION OF THE DAY'S WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY EQUIPMENT AND MATERIAL TO SATISFACTORILY CLEAN THE ROADWAYS.

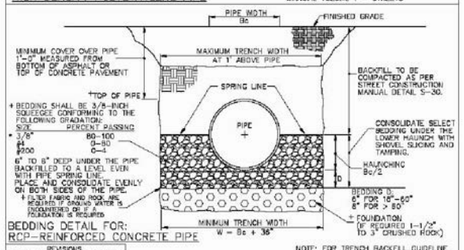
CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

REVISIONS
3/31/07 + NEW DETAIL

STORMWATER GENERAL NOTES
DETAIL 1-1
DATE: MARCH 2007 SCALE: N.T.S.



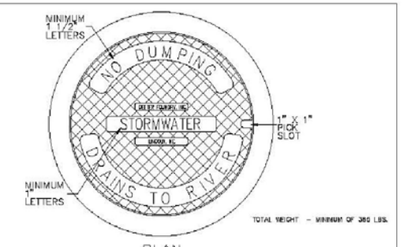
BEDDING DETAIL FOR: HDPE-HIGH DENSITY POLYETHYLENE PIPE



BEDDING DETAIL FOR: RCP-REINFORCED CONCRETE PIPE

REVISIONS
3/31/07 + UPDATE DETAIL
6/07/08 + UPDATE DETAIL

STANDARD STORM WATER BEDDING DETAIL
DETAIL 6-6
DATE: JUNE 2005 SCALE: N.T.S.



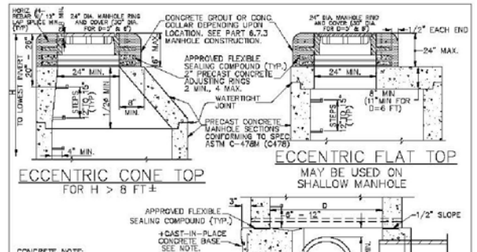
GENERAL NOTES

1. RING AND COVER SHALL BE GRAY IRON, MANUFACTURED PER ASTM A-48, AASHTO M 105, CLASS 35B.
2. COVER SHALL BE NONPERFORATED, WITH LETTERING AS SHOWN, CAST ON THE TOP OF THE LID FOR STORMWATER MANHOLES.
3. COVER SHALL BE BOLTED IF SPECIFIED BY THE PUBLIC WORKS DEPARTMENT. BOLTS SHALL BE BRASS.
4. NEENAH NO. R-1768 MANHOLE RING AND SOLID COVER, OR DEETER NO. 1258, OR APPROVED EQUAL. TOTAL WEIGHT SHALL BE A MINIMUM OF 360 LBS AND SHALL WITHSTAND HS-20 LOADING.
5. LID SHALL READ "STORMWATER". "STORM SEWER" IS UNACCEPTABLE.
6. FISH SYMBOL ON LID IS PREFERRED, BUT NOT REQUIRED.
7. COVER AND RING OPENING SHALL BE SQUARE, NOT TAPERED.

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

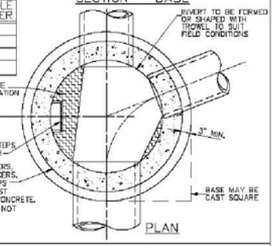
REVISIONS
3/31/07 + UPDATE DETAIL

STANDARD STORMWATER MANHOLE RING AND COVER
DETAIL 6-8
DATE: MARCH 2007 SCALE: N.T.S.



MANHOLE SIZES

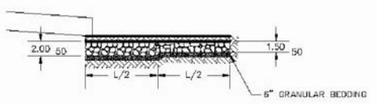
BOTTOM REINF.	PIPE DIA. (d)	MANHOLE DIAMETER
#4 @ 12	15" TO 18"	4 FT.
#4 @ 12	21" TO 30"	5 FT.
#4 @ 12	36" TO 54"	8 FT.
60" & Larger	CDOT Std. M-604-20	



CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

REVISIONS
3/31/07 + UPDATE DETAIL

STANDARD STORM WATER MANHOLE
DETAIL 6-9
DATE: MARCH 2007 SCALE: N.T.S.

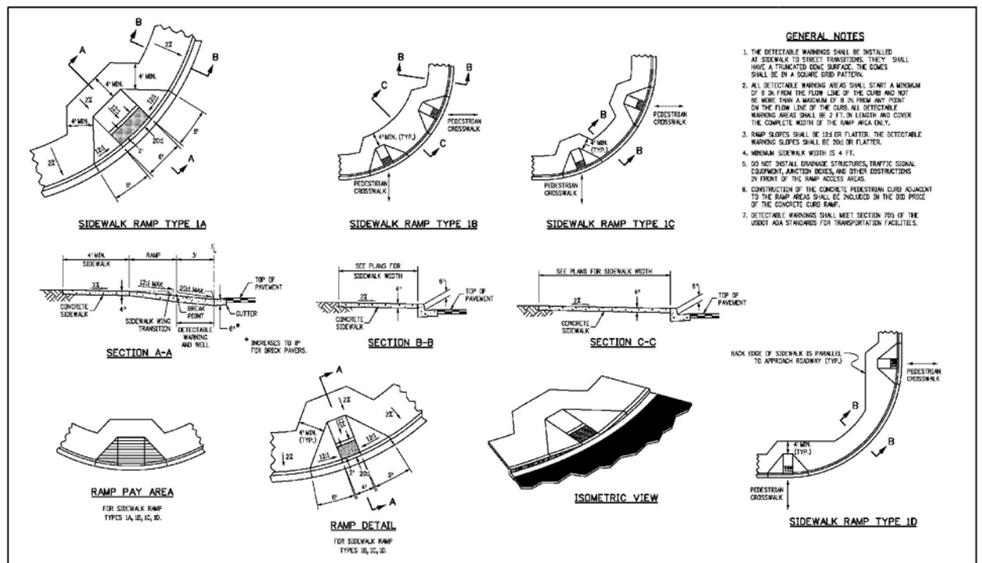


D = d50 = STATE CLASSIFICATION FOR NOMINAL STONE SITE.

IF RIP-RAP TO BE GROUTED:
GROUT SHALL BE IN ACCORDANCE TO ASTM C1107-LATEST REVISION.
GROUT SHALL BE VIBRATED IN PLACE.
TOPS OF EXPOSED RIP-RAP WILL BE WET BRUSHED AND CLEANED OF GROUT TO EXPOSE RIP-RAP COLOR.

RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D_{50} (INCHES)
TYPE VL	70-100	12	6**
	50-70	9	
	35-50	6	
	2-10	2	
TYPE L	70-100	15	9**
	50-70	12	
	35-50	9	
	2-10	3	
TYPE M	70-100	21	12
	50-70	18	
	35-50	12	
	2-10	4	
TYPE H	100	30	18
	50-70	24	
	35-50	18	
	2-10	6	
TYPE VH	100	42	24
	50-70	33	
	35-50	12	
	2-10	9	

STORMWATER CONSTRUCTION DRAWINGS | RIPRAP DRAWING



GENERAL NOTES

1. THE DETECTABLE WARNINGS SHALL BE INSTALLED AT SIDEWALK TO STREET TRANSITIONS. THEY SHALL HAVE A TRUNCATED DOME SURFACE. THE DOMES SHALL BE IN A SQUARE GRID PATTERN.
2. ALL DETECTABLE WARNING AREAS SHALL START A MINIMUM OF 6 IN. FROM THE FLOW LINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 IN. FROM ANY POINT ON THE FLOW LINE OF THE CURB. ALL DETECTABLE WARNING AREAS SHALL BE 2 FT. IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY.
3. RAMP SLOPES SHALL BE 12H OR FLATTER. THE DETECTABLE WARNING SLOPES SHALL BE 20H OR FLATTER.
4. MINIMUM SIDEWALK WIDTH IS 4 FT.
5. DO NOT INSTALL DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, JUNCTION BOXES, AND OTHER OBSTRUCTIONS IN FRONT OF THE RAMP ACCESS AREAS.
6. CONSTRUCTION OF THE CONCRETE PEDESTRIAN CURB ADJACENT TO THE RAMP AREAS SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP.
7. DETECTABLE WARNINGS SHALL MEET SECTION 705 OF THE USDOT ADA STANDARDS FOR TRANSPORTATION FACILITIES.

Computer File Information		Sheet Revisions		Colorado Department of Transportation	CURB RAMPS	STANDARD PLAN NO.
Creation Date: 07/04/12 Initials: CD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222		M-608-1
Last Modification Date: 07/04/12 Initials: LTA	CDOT			Phone: (303) 757-9083 Fax: (303) 757-9820		
Full Path: www.coloradodot.info/business/designsupport	CDOT			Project Development Branch DD/LTA	Issued By: Project Development Branch on July 4, 2012	Sheet No. 1 of 6
Drawing File Name: 608010106.dgn	CDOT					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	CDOT					

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FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

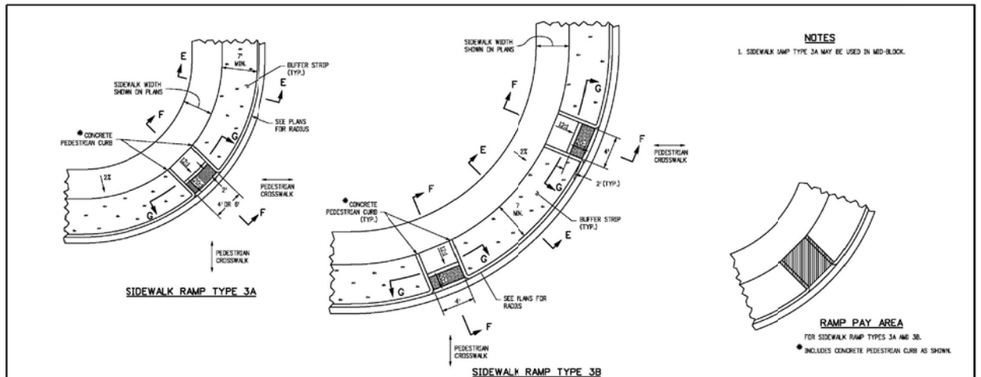
CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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INTERWEST CONSULTING GROUP

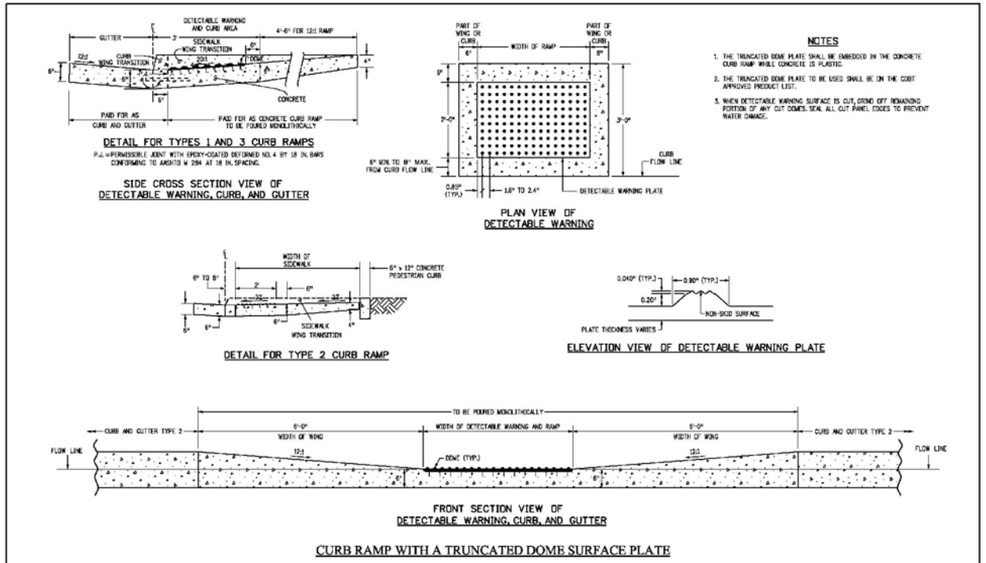
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Creation Date: 06/10/15	Initials: STW					No Revisions:				STU M570-046
Last Modification Date: 10/12/16	Initials: STW					Revised:	Designer: M. OBERLANDER			20148
Full Path:						Void:	Detailer: S. WEIER			SHEET NUMBER 103
Drawing File Name: 1138-083-03 DT.dwg							Sheet Subset:	Subset Sheet::		
Acad Ver. 2007 Scale: N/A	Units: ENGLISH									

City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

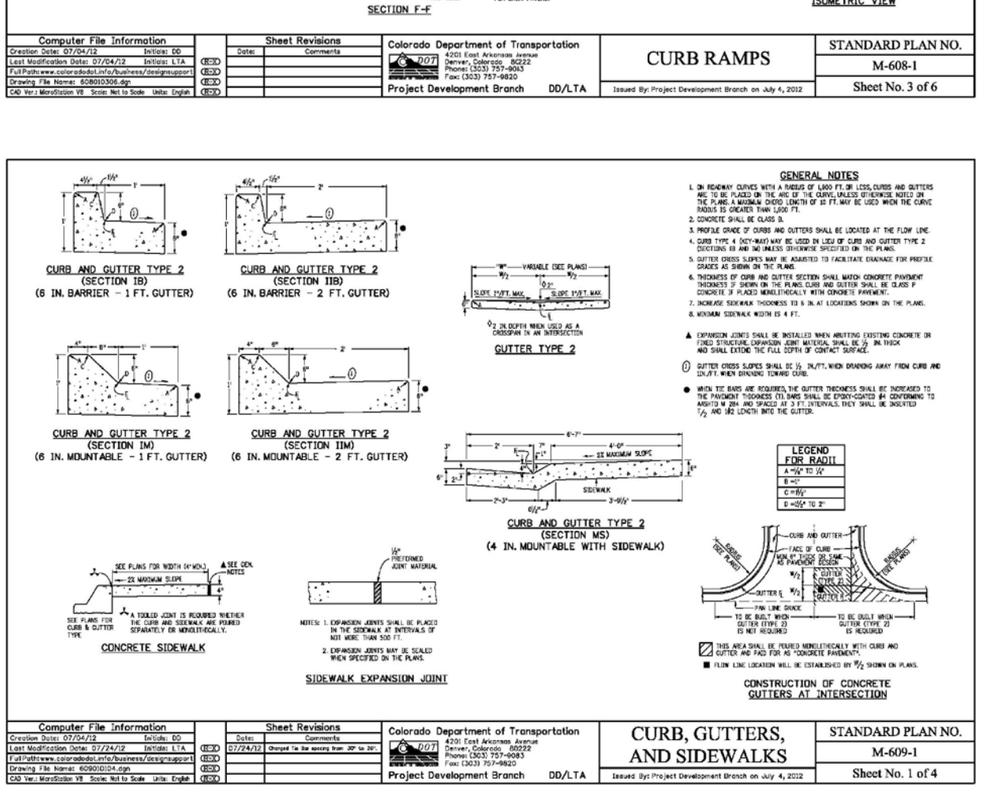


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Last Modification Date: 07/04/12 Initials: LTA	(ECV)			Project Development Branch DD/LTA	Issued By: Project Development Branch on July 4, 2012	Sheet No. 3 of 6
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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(ECV)					

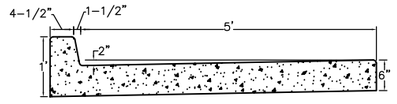


CURB RAMP WITH A TRUNCATED DOME SURFACE PLATE

Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.
Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222, Phone: (303) 757-9083, Fax: (303) 757-9820	CURB RAMPS	M-608-1
Last Modification Date: 07/04/12 Initials: LTA	(ECV)			Project Development Branch DD/LTA	Issued By: Project Development Branch on July 4, 2012	Sheet No. 5 of 6
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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(ECV)					

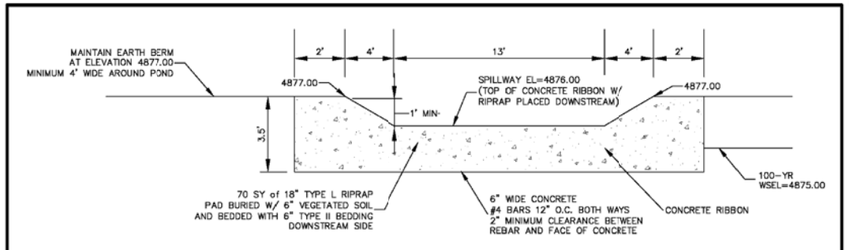


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Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222, Phone: (303) 757-9083, Fax: (303) 757-9820	CURB, GUTTERS, AND SIDEWALKS	M-609-1
Last Modification Date: 07/24/12 Initials: LTA	(ECV)	07/24/12	Changed Tie Bar spacing from 30" to 36".	Project Development Branch DD/LTA	Issued By: Project Development Branch on July 4, 2012	Sheet No. 1 of 4
Full Path: www.coloradodot.info/business/designsupport	(ECV)					
Drawing File Name: 609010104.dgn	(ECV)					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(ECV)					



CURB AND GUTTER TYPE 2 (SECTION IIB) (SPECIAL) (6 IN. BARRIER – 5 FT. GUTTER)

NOTE:
1. CONSTRUCT CURB & GUTTER IN ACCORDANCE WITH CDOT STANDARD CURB, GUTTERS, AND SIDEWALK DETAILS.



EMERGENCY OVERFLOW SPILLWAY W/ CONCRETE RIBBON

NTS

AWARDED SET

FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

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811
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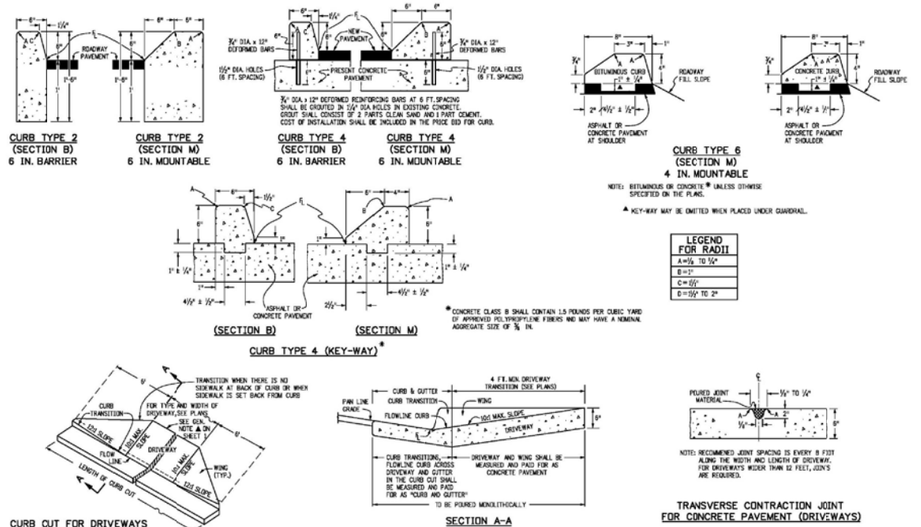
INTERWEST CONSULTING GROUP

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Last Modification Date: 10/12/16 Initials: STW								
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Drawing File Name: 1138-083-03 DT.dwg								
Acad Ver. 2007 Scale: N/A Units: ENGLISH								

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CDOT
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FAX: 970-350-2198
Region 4 LHN

As Constructed	CONSTRUCTION DETAILS			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: M. OBERLANDER			20148
Void:	Detailer: S. WEIER			SHEET NUMBER 104
	Sheet Subset:	Subset Sheet::		

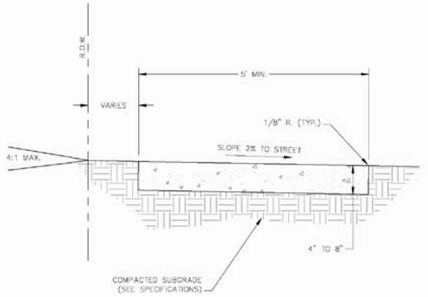


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Last Modification Date: 07/04/12	Initials: LTA		
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Drawing File Name: 609i0204.dgn			
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English		

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Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

CURB, GUTTERS, AND SIDEWALKS

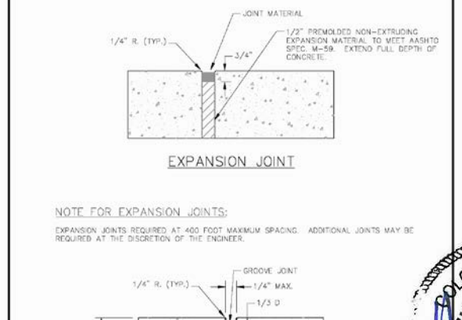
STANDARD PLAN NO. M-609-1
Sheet No. 2 of 4
Issued By: Project Development Branch on July 4, 2012



NOTES:
1. MAXIMUM SPACING OF CONTRACTION JOINTS IS TEN (10) FEET.
2. AT RESIDENTIAL DRIVEWAYS, THE SIDEWALK THICKNESS SHALL BE INCREASED TO SIX (6) INCHES.
3. EXPANSION JOINTS REQUIRED AT 400 FOOT MAXIMUM SPACING. ADDITIONAL JOINTS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. SEE JOINT DETAILS.
4. AT ALLEYS AND COMMERCIAL DRIVEWAYS, THE SIDEWALK THICKNESS SHALL BE INCREASED TO EIGHT (8) INCHES.
5. CONCRETE SURFACES TO RECEIVE A LIGHT BROOM FINISH.

Chief Greeley

DETACHED SIDEWALK DETAIL
DETAIL NO. S-21
DATE: JULY, 2015 SCALE: N.T.S.



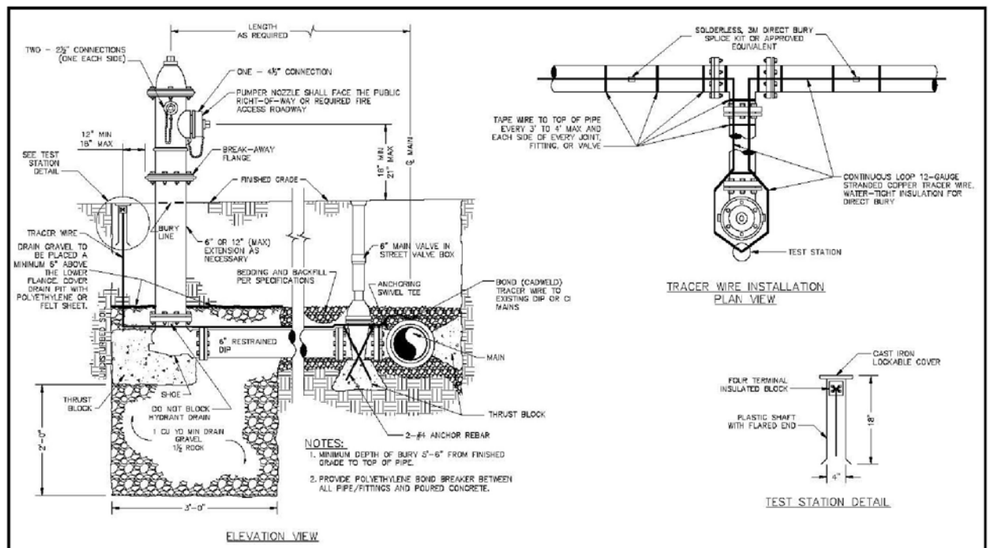
NOTE FOR EXPANSION JOINTS:
EXPANSION JOINTS REQUIRED AT 400 FOOT MAXIMUM SPACING. ADDITIONAL JOINTS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.

NOTES FOR CONTRACTION JOINTS:
1. FORM WITH TOOL TEMPLATE OR SAWCUT JOINTS.
2. SAWCUT JOINTS, IF USED, SHALL BEGIN AS SOON AS CONCRETE IS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS.
3. MAXIMUM DISTANCE BETWEEN JOINTS IS TEN (10) FEET AND MINIMUM DISTANCE IS FIVE (5) FEET.

Chief Greeley

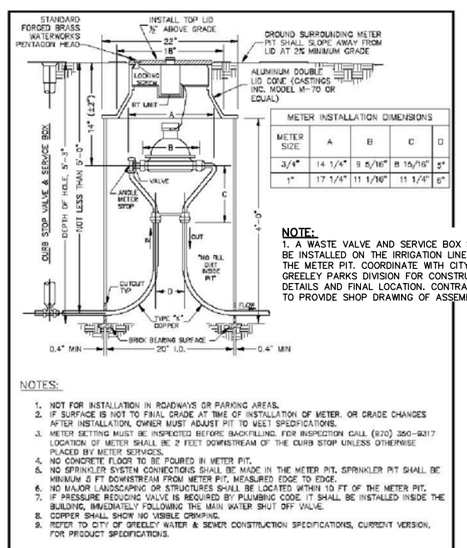
CONCRETE JOINT DETAILS FOR SIDEWALKS, CURBS, GUTTERS AND CROSS PANS
DETAIL NO. S-22
DATE: JULY, 2015 SCALE: N.T.S.

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER



Chief Greeley

FIRE HYDRANT ASSEMBLY WITH TRACER WIRE INSTALLATION
DETAIL NO. W-1
DATE: JANUARY, 2008 SCALE: N.T.S.

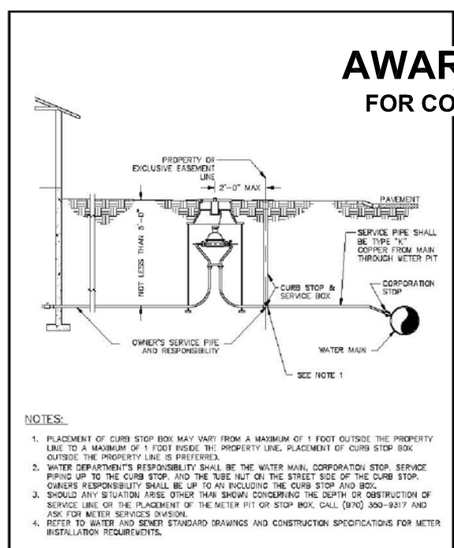


NOTES:
1. NOT FOR INSTALLATION IN ROADWAYS OR PARKING AREAS.
2. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER, OR GRADE CHANGES AFTER INSTALLATION, OWNER MUST ADJUST PIT TO MEET SPECIFICATIONS.
3. METER SETTING MUST BE INSPECTED BEFORE BACKFILLING. FOR INSPECTION CALL (970) 350-9317
4. LOCATION OF METER SHALL BE 2 FEET DOWNSTREAM OF THE CURB STOP UNLESS OTHERWISE PLACED BY METER SERVICES.
5. NO CONCRETE FLOOR TO BE POURED IN METER PIT.
6. NO SPRINKLER SYSTEM CONNECTIONS SHALL BE MADE IN THE METER PIT. SPRINKLER PIT SHALL BE MINIMUM 5 FT DOWNSTREAM FROM METER PIT, MEASURED EDGE TO EDGE.
7. NO MAJOR LANDSCAPING OR STRUCTURES SHALL BE LOCATED WITHIN 10 FT OF THE METER PIT.
8. IF PRESSURE REDUCING VALVE IS REQUIRED BY PLUMBING CODE IT SHALL BE INSTALLED INSIDE THE BUILDING, IMMEDIATELY FOLLOWING THE MAIN WATER SHUT OFF VALVE.
9. COPPER SHALL SHOW NO VISIBLE CRIMPING.
10. REFER TO CITY OF GREELEY WATER & SEWER CONSTRUCTION SPECIFICATIONS, CURRENT VERSION, FOR PRODUCT SPECIFICATIONS.

NOTE:
1. A WASTE VALVE AND SERVICE BOX SHALL BE INSTALLED ON THE IRRIGATION LINE NEAR THE METER PIT. COORDINATE WITH CITY OF GREELEY PARKS DIVISION FOR CONSTRUCTION DETAILS AND FINAL LOCATION. CONTRACTOR TO PROVIDE SHOP DRAWING OF ASSEMBLY.

Chief Greeley

OUTSIDE SETTING FOR ¾" & 1" METER
DETAIL NO. W-7
DATE: JANUARY, 2008 SCALE: N.T.S.



NOTES:
1. PLACEMENT OF CURB STOP BOX MAY VARY FROM A MAXIMUM OF 1 FOOT OUTSIDE THE PROPERTY LINE TO A MAXIMUM OF 1 FOOT INSIDE THE PROPERTY LINE. PLACEMENT OF CURB STOP BOX OUTSIDE THE PROPERTY LINE IS PREFERRED.
2. WATER DEPARTMENT'S RESPONSIBILITY SHALL BE THE WATER MAIN, CORPORATION STOP, SERVICE PIPING UP TO THE CURB STOP, AND THE TUBE NUT ON THE STREET SIDE OF THE CURB STOP. OWNERS RESPONSIBILITY SHALL BE UP TO AN INCLUDING THE CURB STOP AND BOX.
3. SHOULD ANY SITUATION ARISE OTHER THAN SHOWN CONCERNING THE DEPTH OR OBSTRUCTION OF SERVICE LINE OR THE PLACEMENT OF THE METER PIT OR STOP BOX, CALL (970) 350-9317 AND ASK FOR METER SERVICES DIVISION.
4. REFER TO WATER AND SEWER STANDARD DRAWINGS AND CONSTRUCTION SPECIFICATIONS FOR METER INSTALLATION REQUIREMENTS.

Chief Greeley

POTABLE WATER SERVICE LINE, STOP BOX AND OUTSIDE METER INSTALLATION
DETAIL NO. W-9
DATE: JANUARY, 2008 SCALE: N.T.S.

AWARDED SET
FOR CONSTRUCTION

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811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

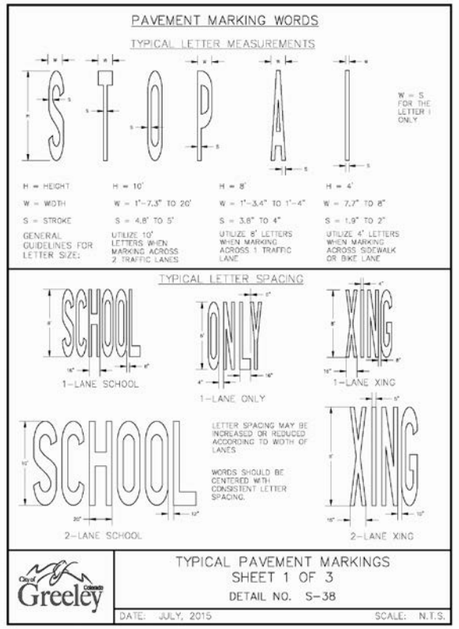
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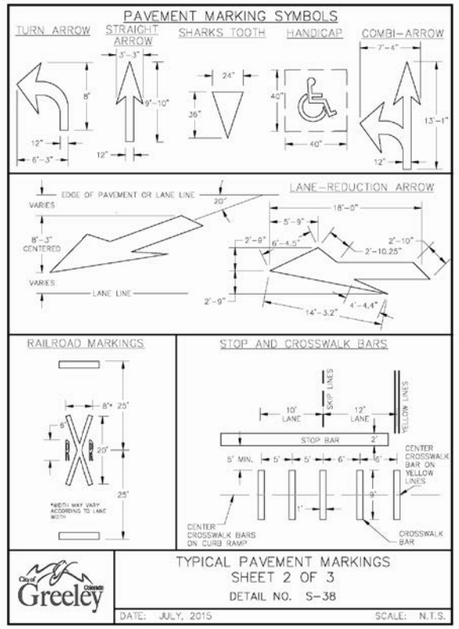
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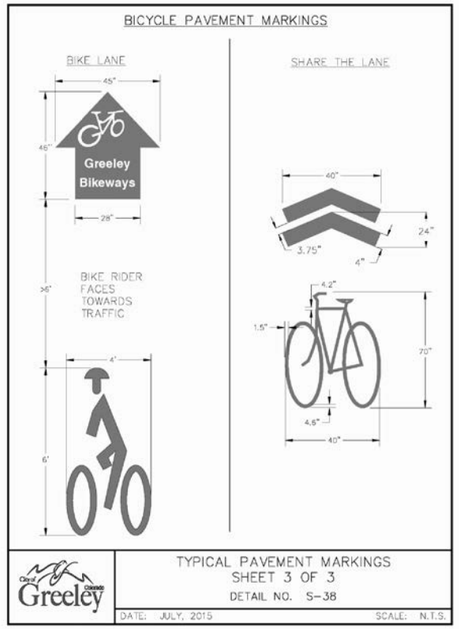
City of Greeley
City of Greeley Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

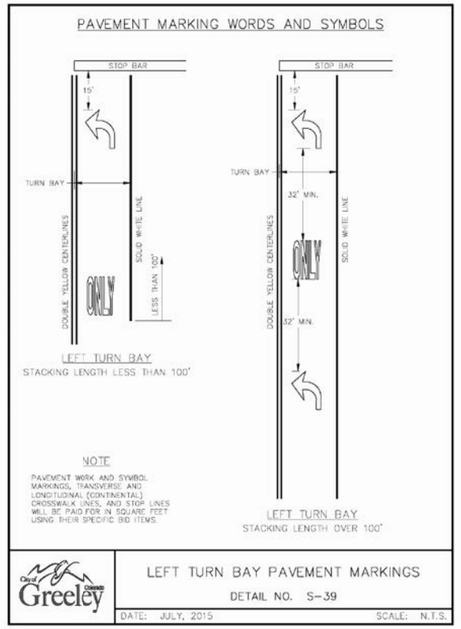
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10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

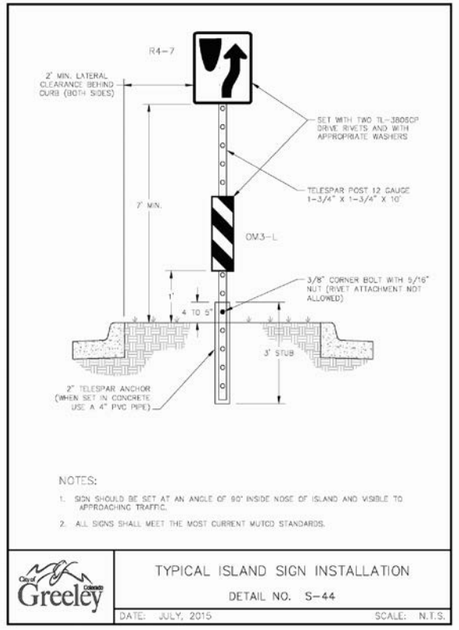
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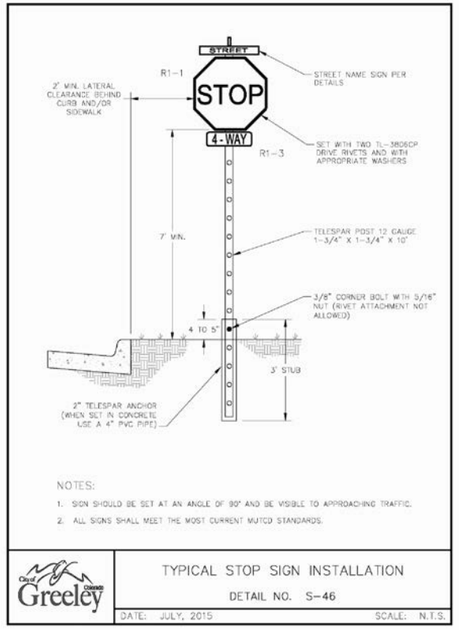


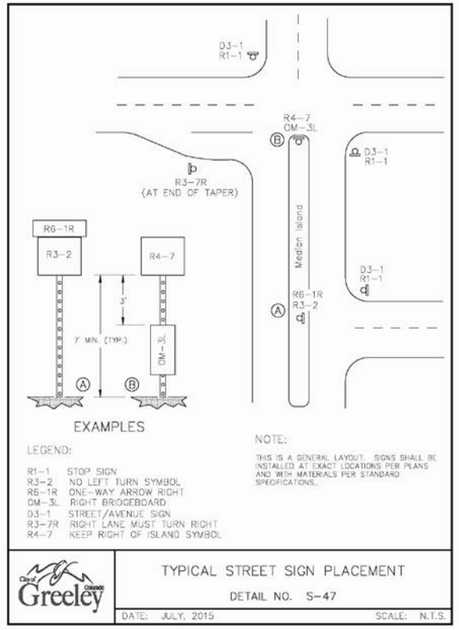












COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

AWARDED SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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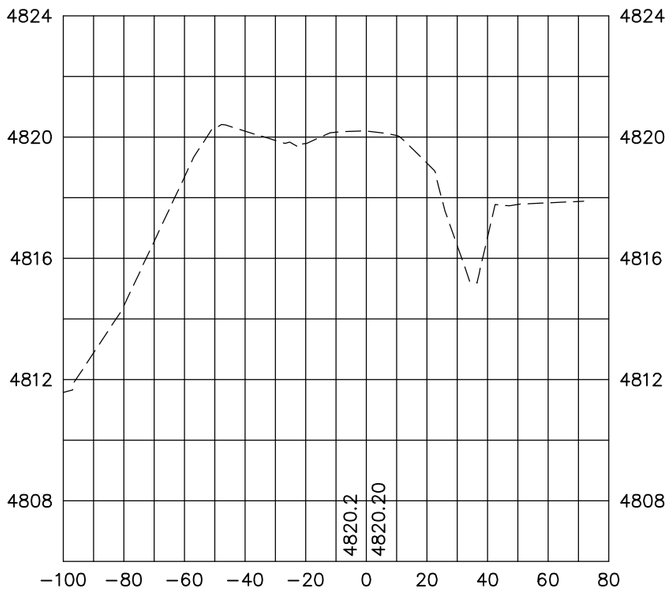
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Revised:	Designer: M. OBERLANDER	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 106
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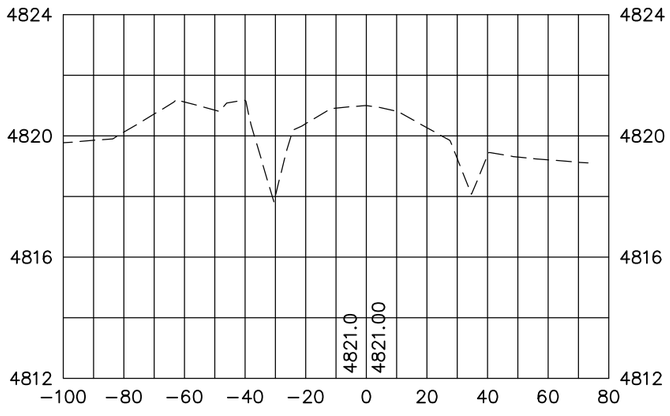
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MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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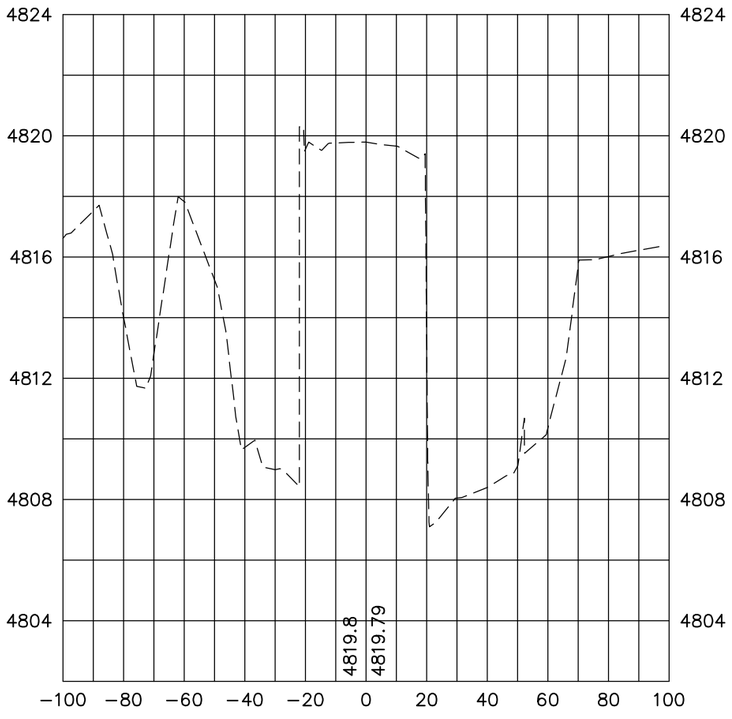
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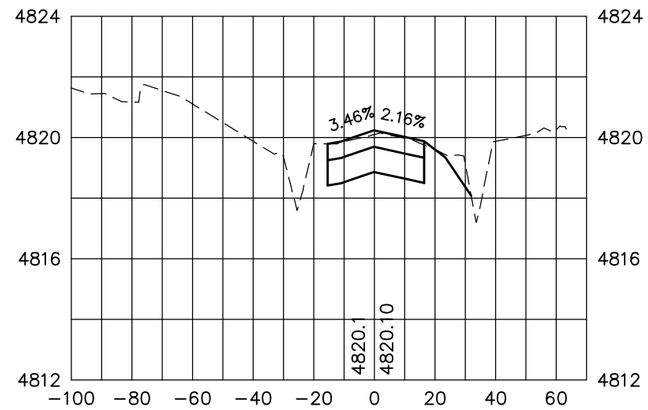
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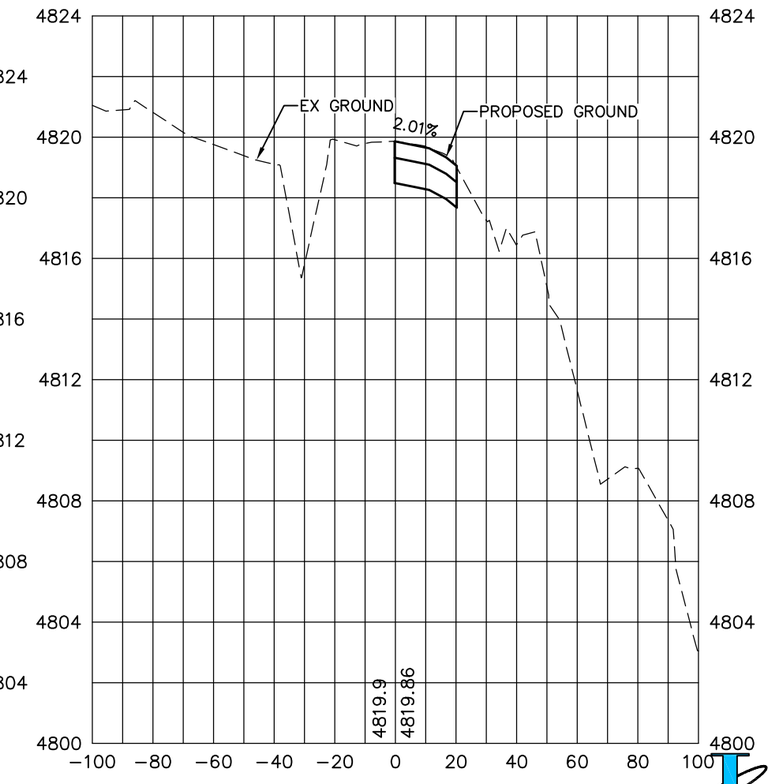
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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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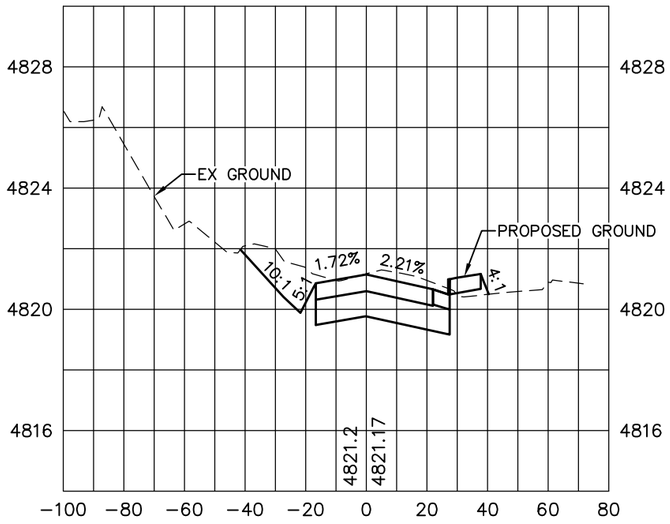
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Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 107
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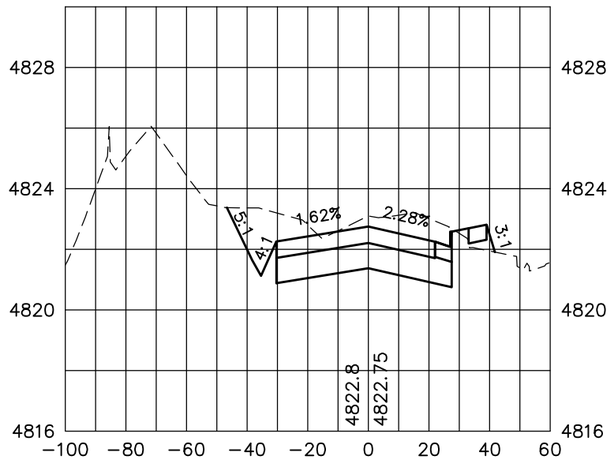
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COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

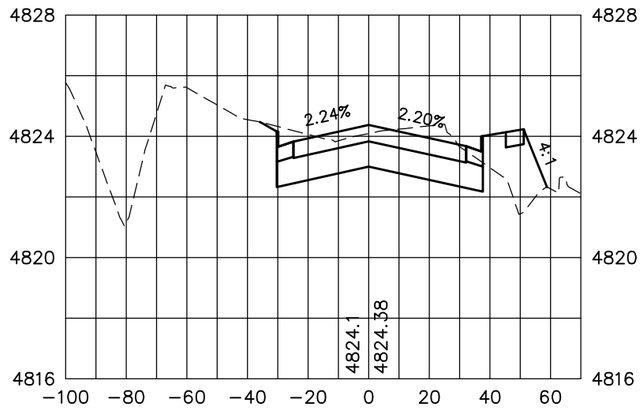
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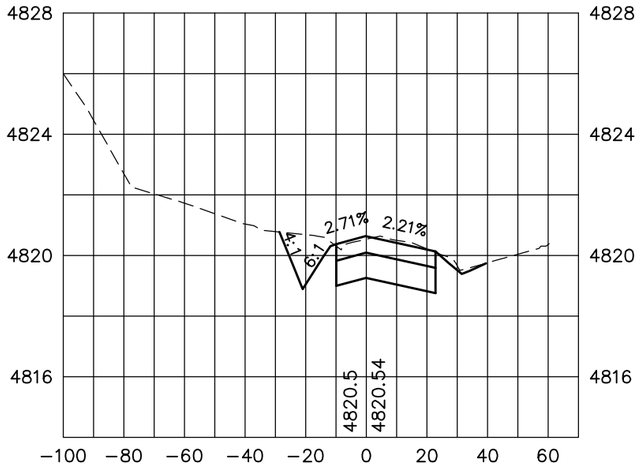
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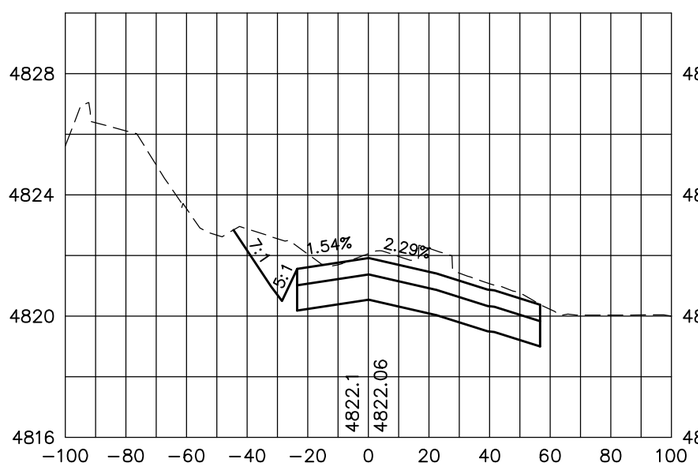
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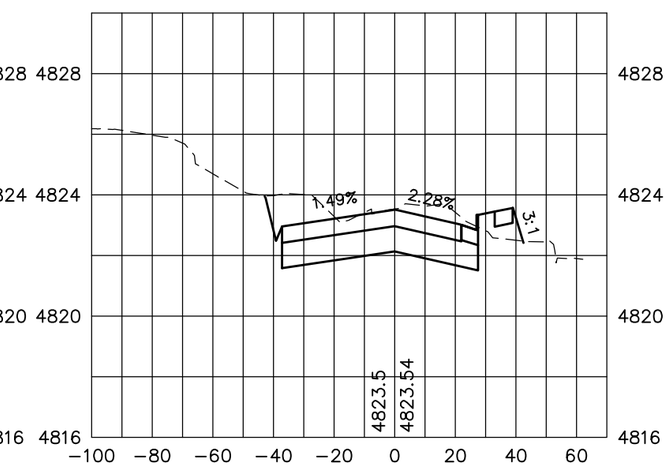
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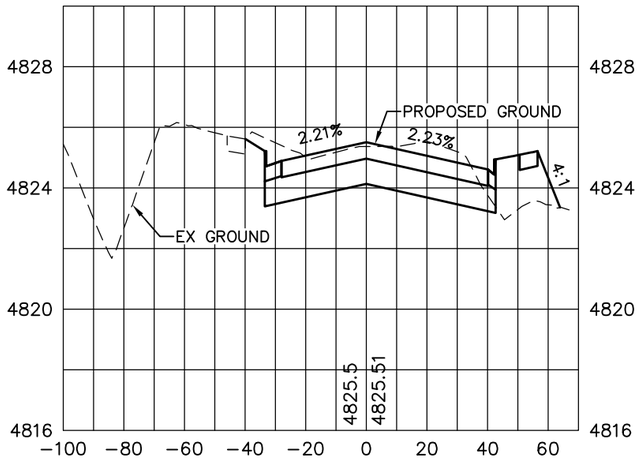
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Revised:	Designer: J. LOFTON	20148
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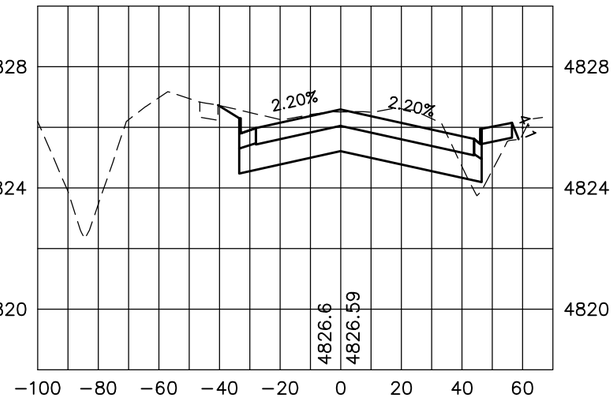
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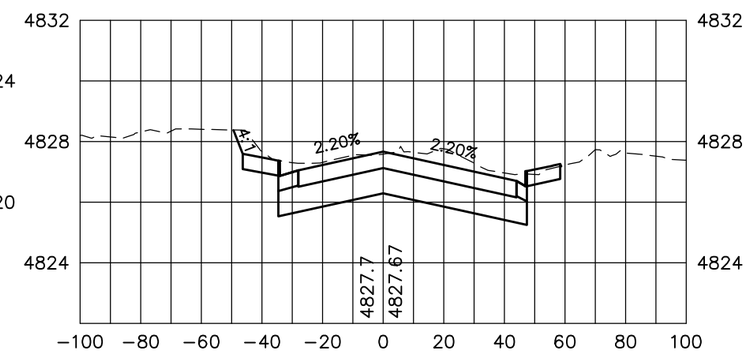
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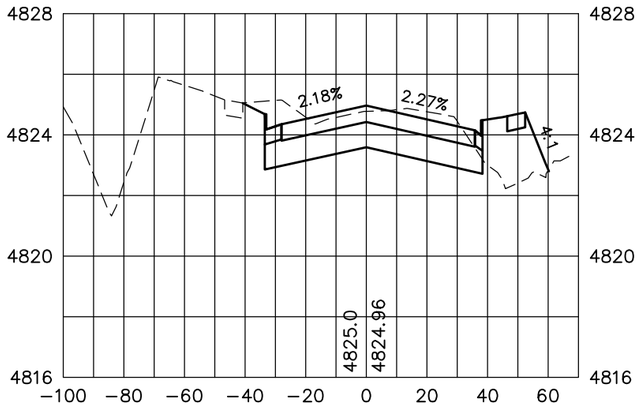
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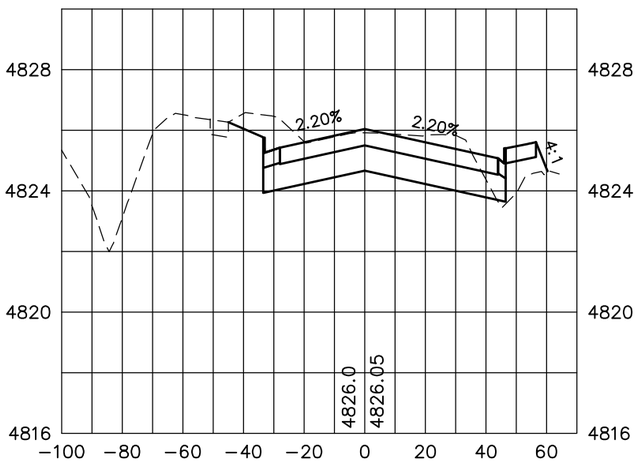
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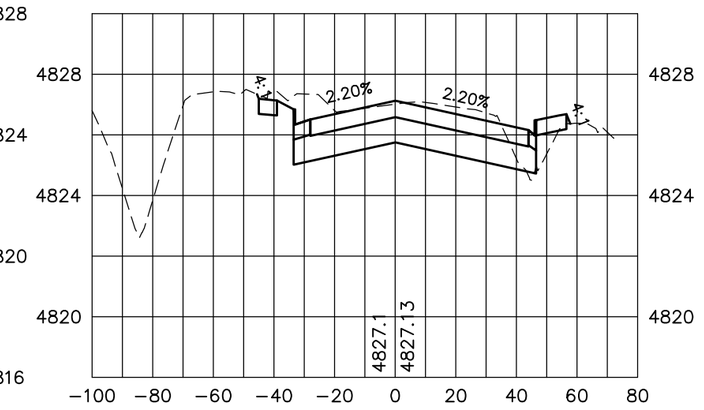
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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
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MEMBER UTILITIES.

AWARDED SET
FOR CONSTRUCTION

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FAX: 970-350-2198
Region 4 LHN

As Constructed
No Revisions:
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Detailer:	S. WEIER		
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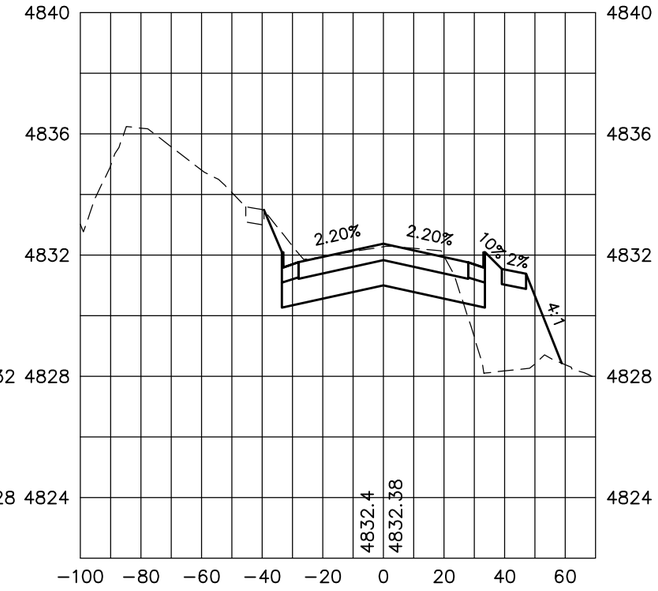
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20148
SHEET NUMBER 109

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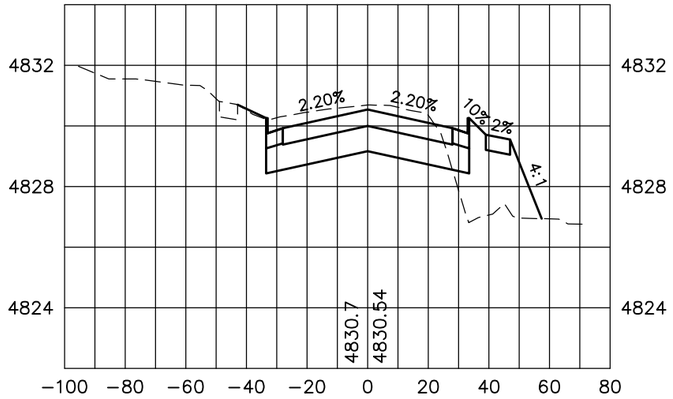
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MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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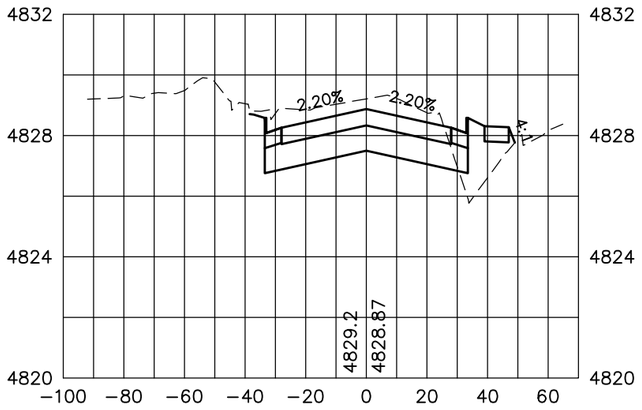
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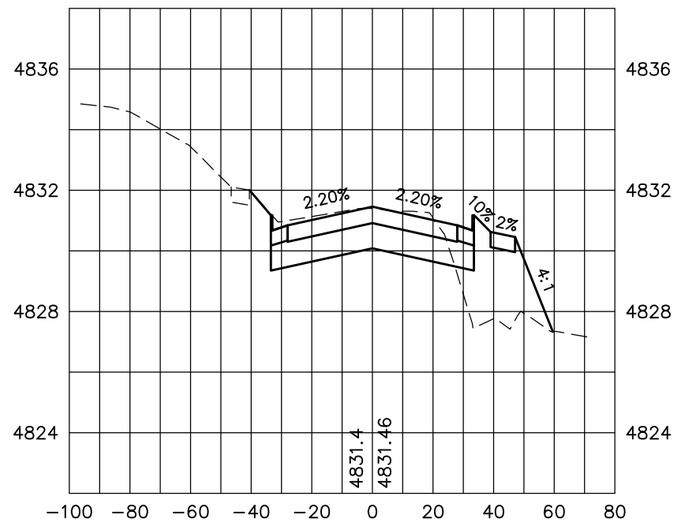
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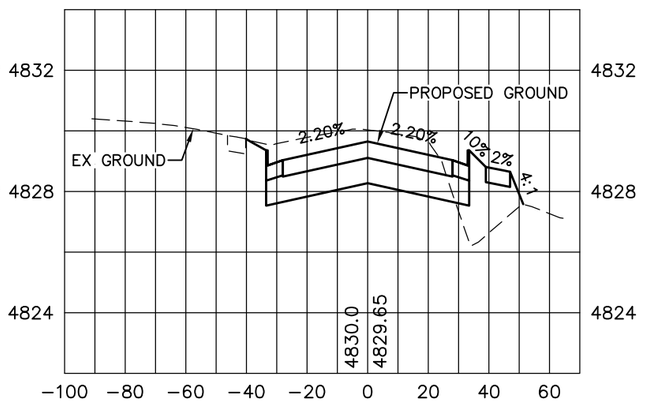
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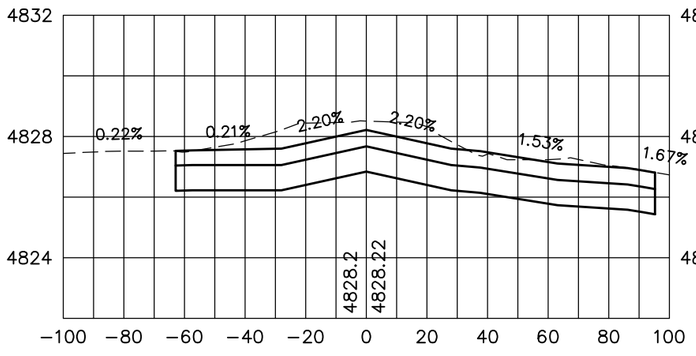
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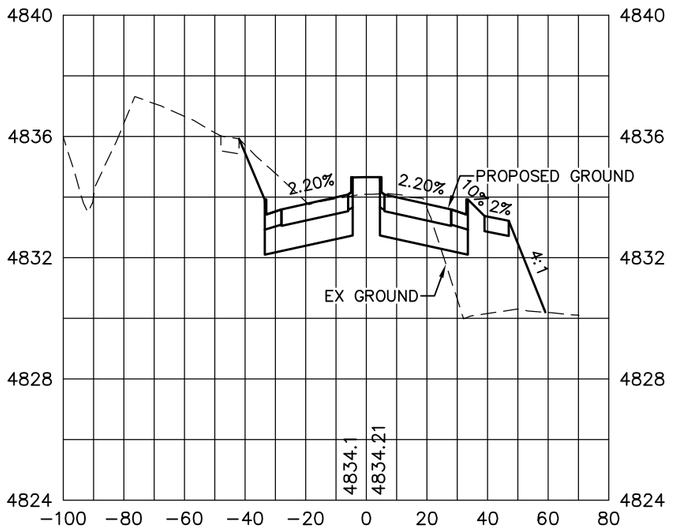
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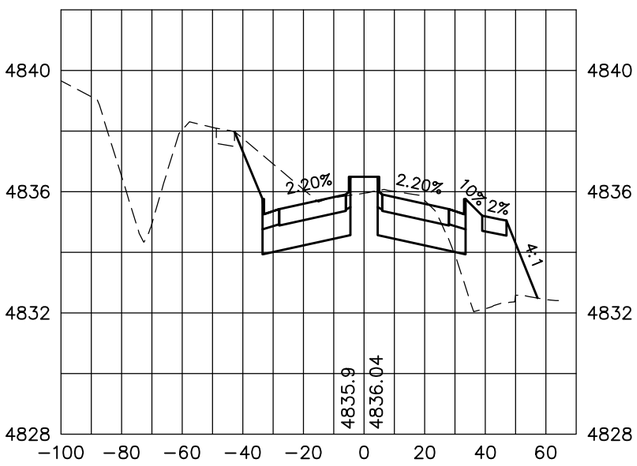
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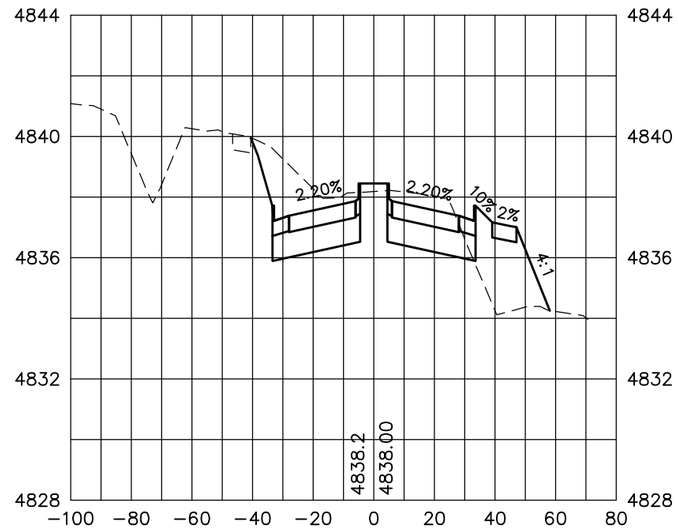
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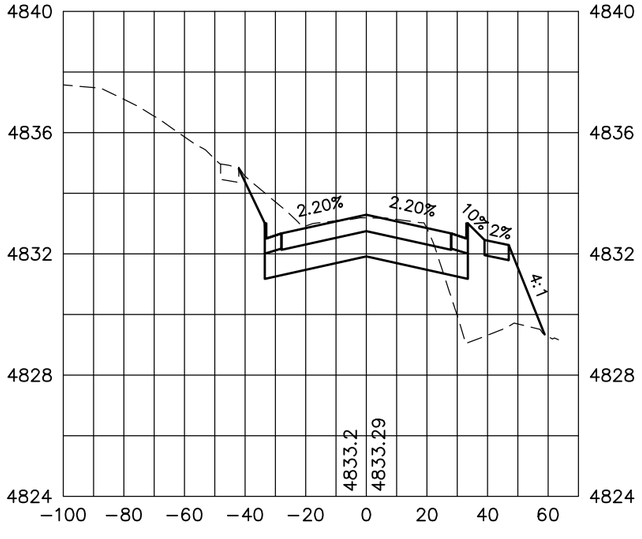
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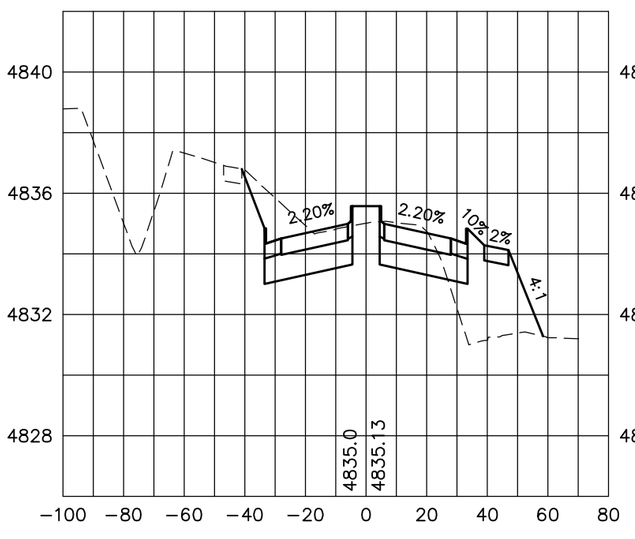
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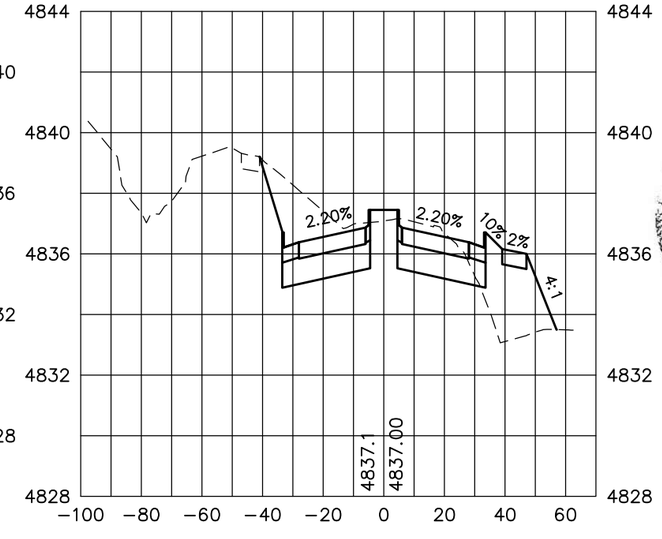
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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-15
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

Computer File Information	
Creation Date: 06/10/15	Initials: JDL
Last Modification Date: 10/12/16	Initials: JDL
Full Path:	
Drawing File Name: 1138-083-03 XSEC.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions		

City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

ROADWAY CROSS SECTIONS		
Designer: J. LOFTON		
Detailer: S. WEIER		
Sheet Subset:	Subset Sheet::	

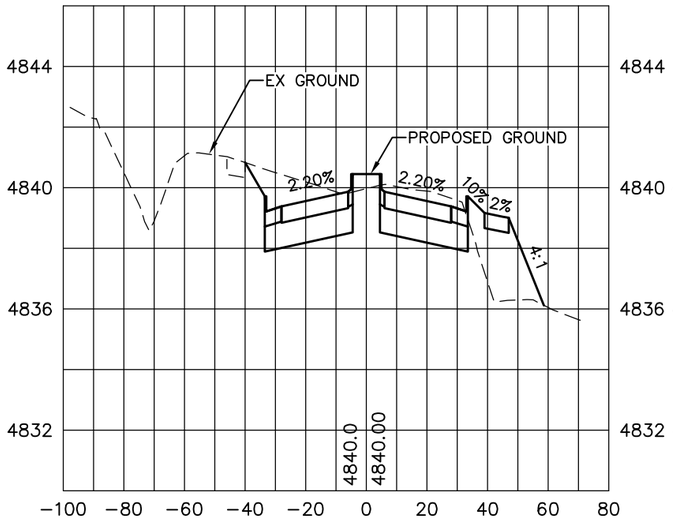
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20148
SHEET NUMBER 111

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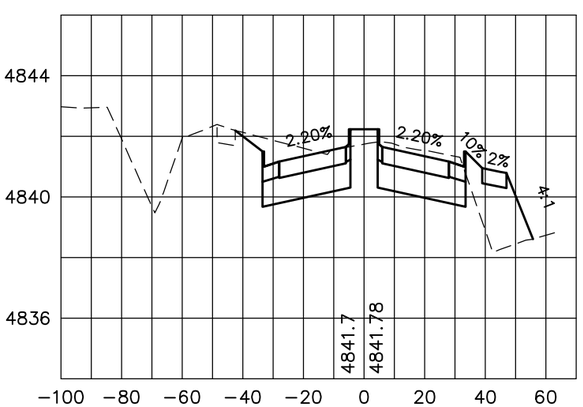
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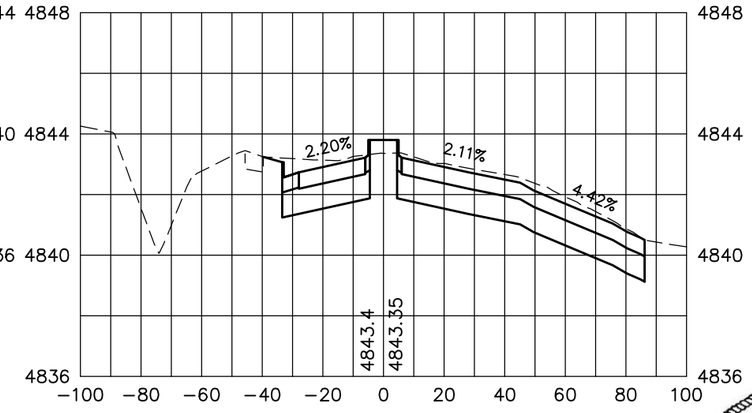
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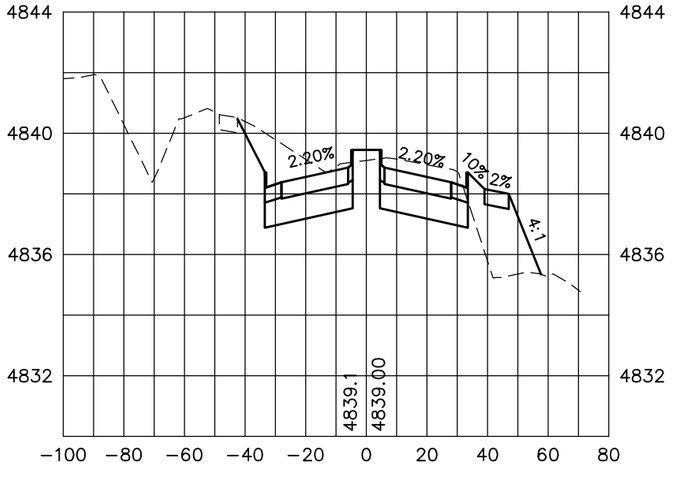
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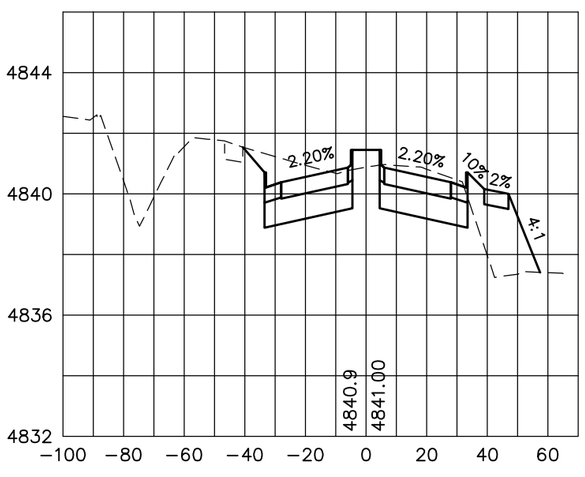
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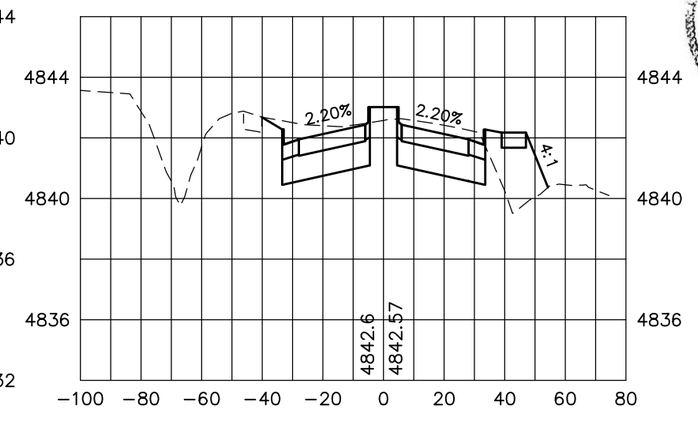
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COLORADO REGISTERED
MICHAEL PAUL OBERMEIER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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Region 4 LHN

As Constructed	
No Revisions:	
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Void:	

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Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

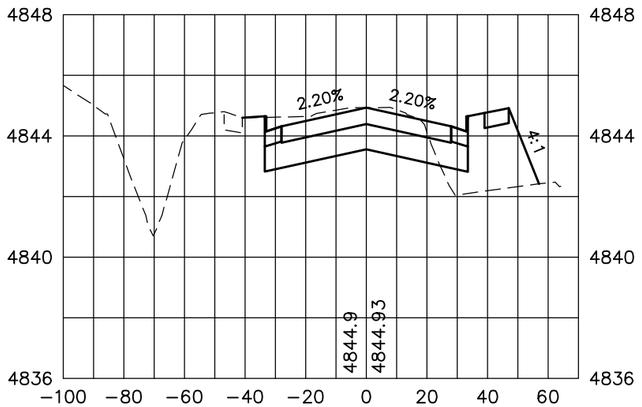
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20148
SHEET NUMBER 112

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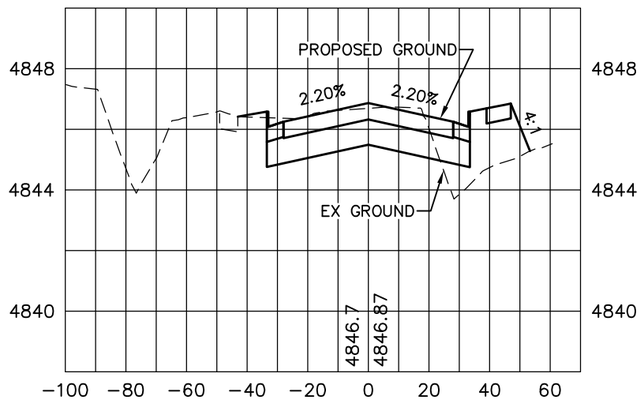
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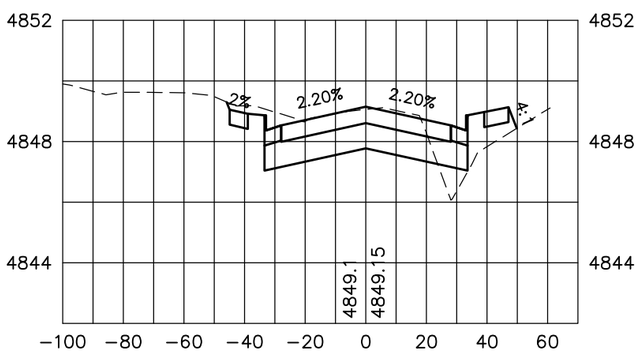
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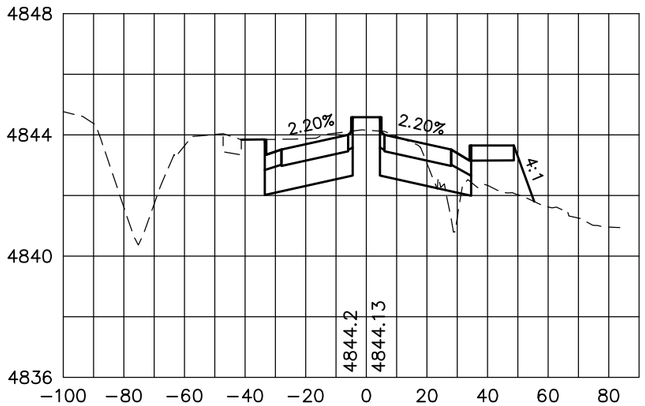
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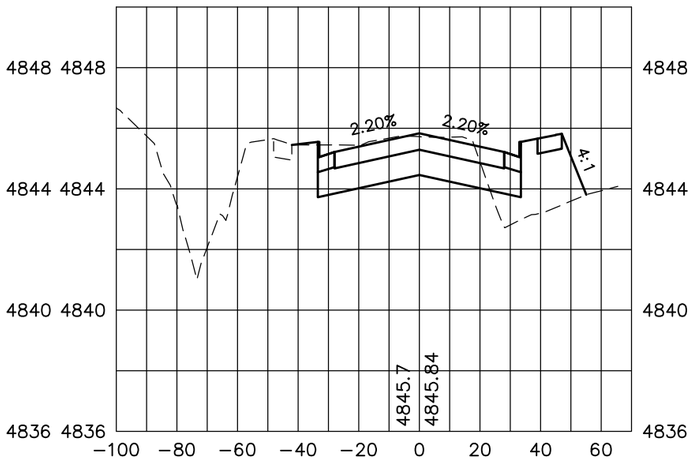
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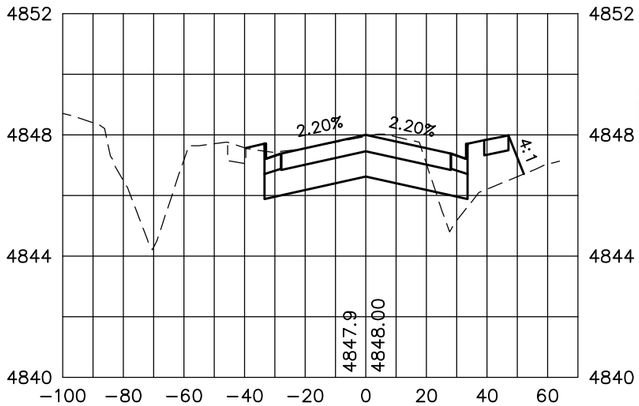
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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
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FOR CONSTRUCTION

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Region 4 LHN

As Constructed
No Revisions:
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ROADWAY CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
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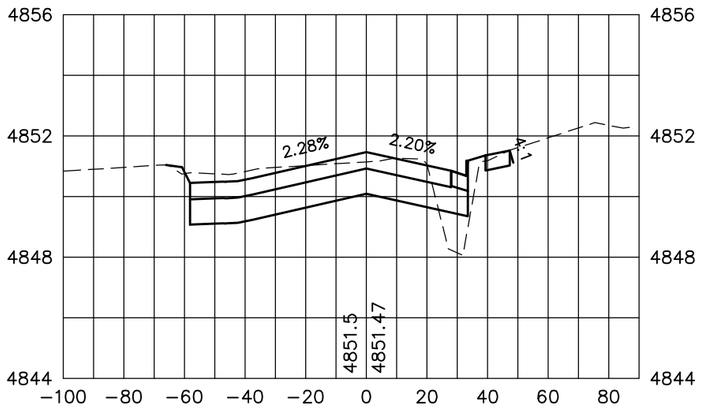
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STU M570-046
20148
SHEET NUMBER 113

CALL UTILITY NOTIFICATION
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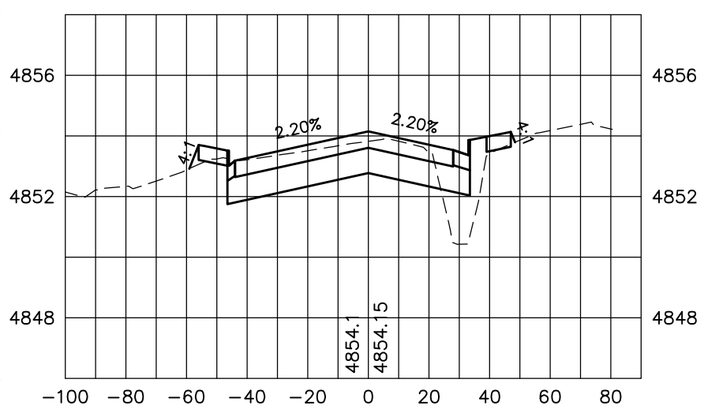
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MICHAEL PAUL OBERHANDER
34288
10-12-16
PROFESSIONAL ENGINEER

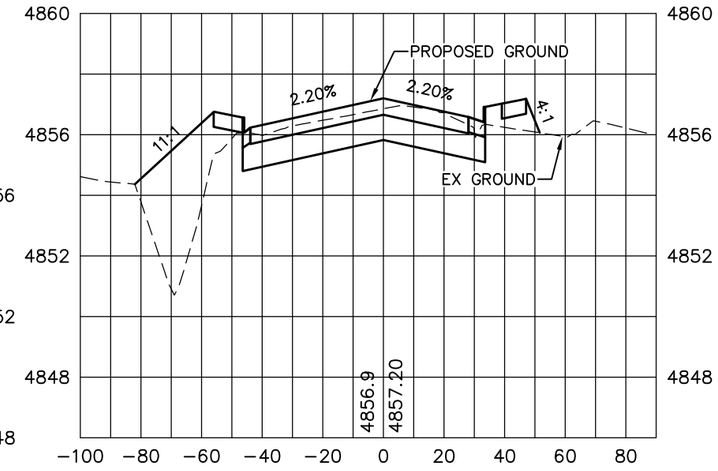
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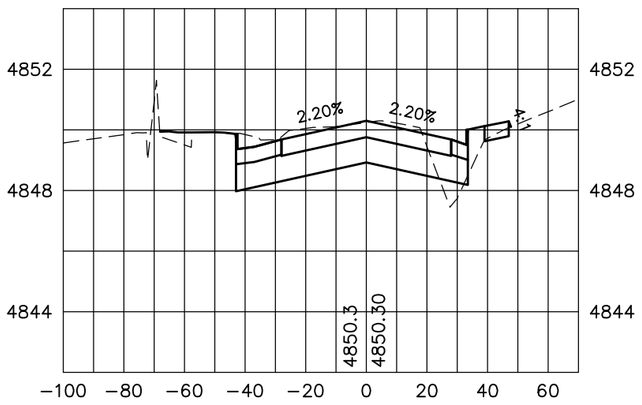
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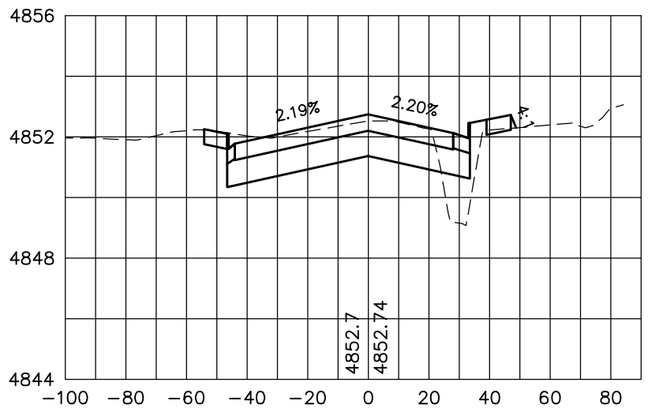
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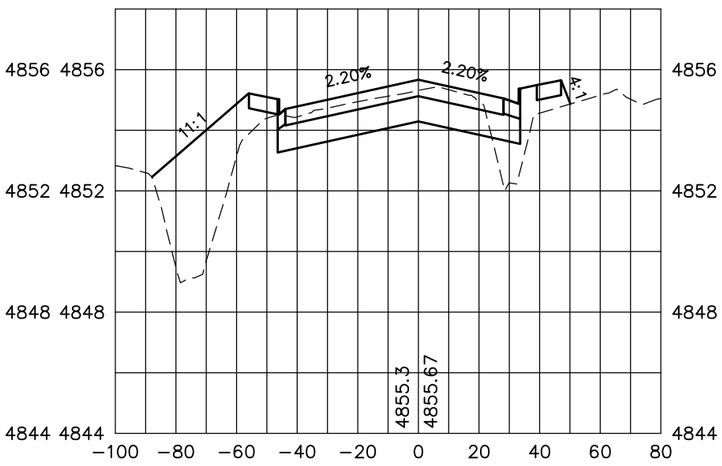
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AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Last Modification Date: 10/12/16		Initials: JDL							Revised:	Designer: J. LOFTON			20148
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Drawing File Name: 1138–083–03 XSEC.dwg										Sheet Subset:		Subset Sheet::	
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH											

City of Greeley
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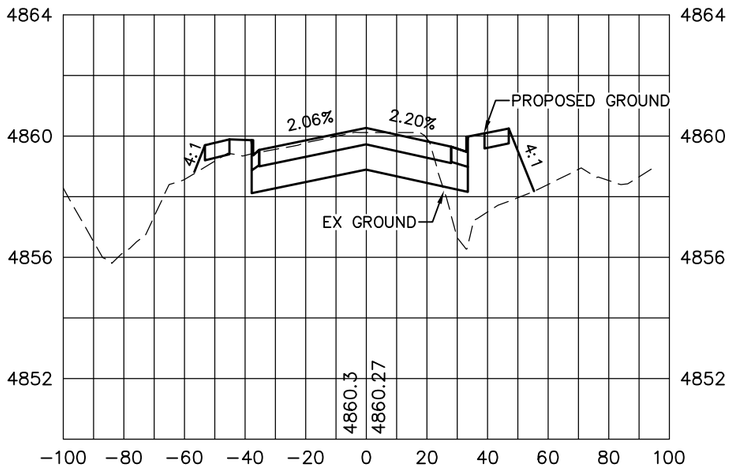
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970–350–2126
FAX: 970–350–2198
Region 4 LHN

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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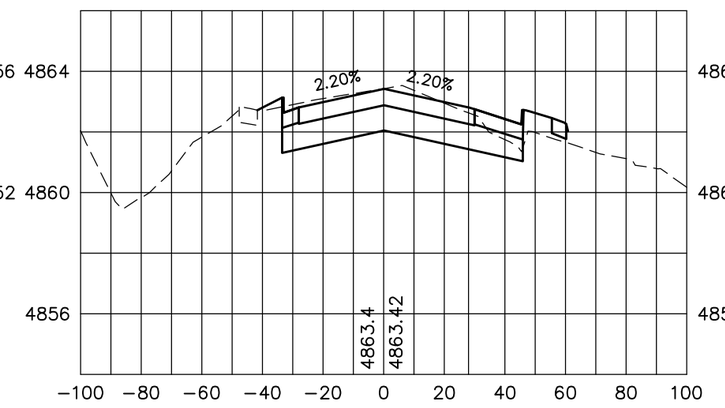
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COLORADO REGISTERED
MICHAEL PAUL OSBERGER
34288
10-12-16
PROFESSIONAL ENGINEER

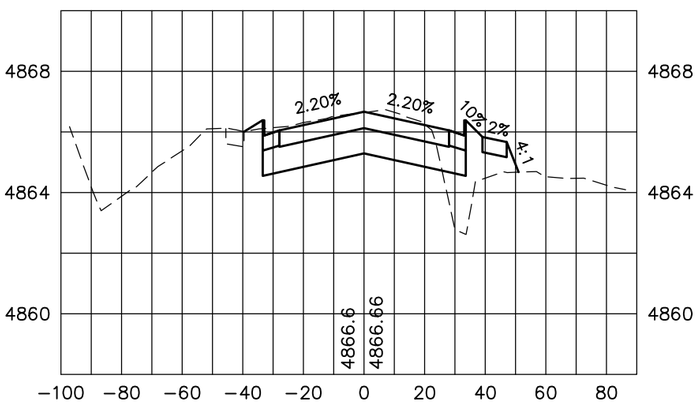
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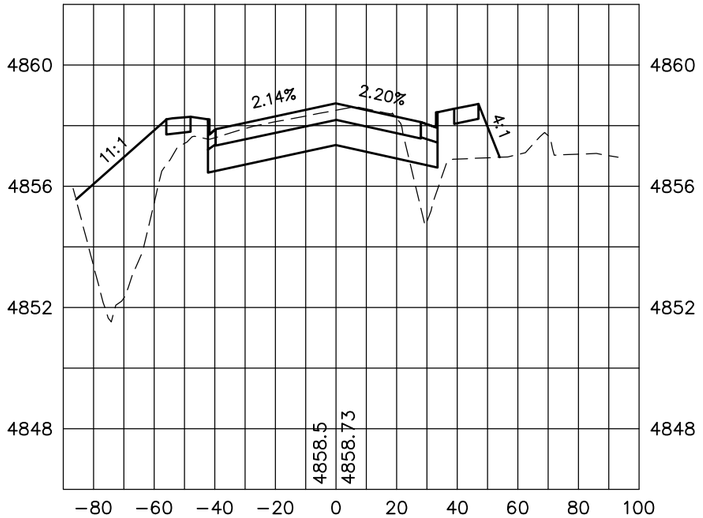
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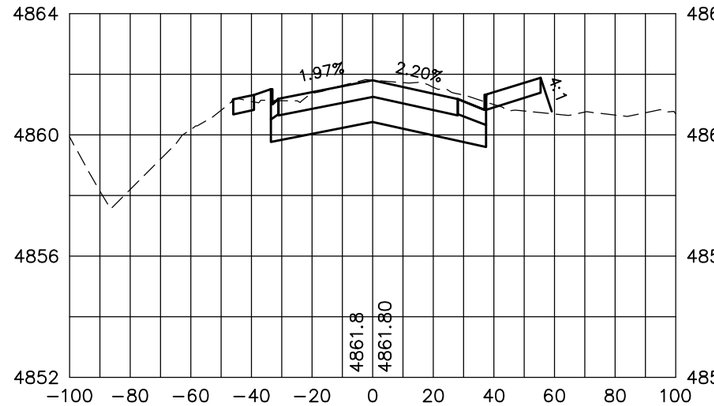
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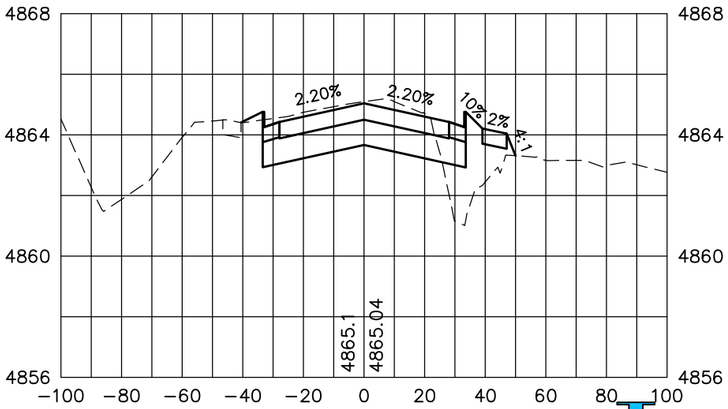
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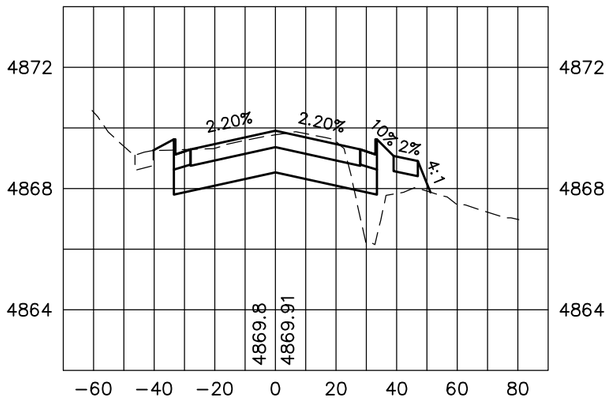
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Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 115
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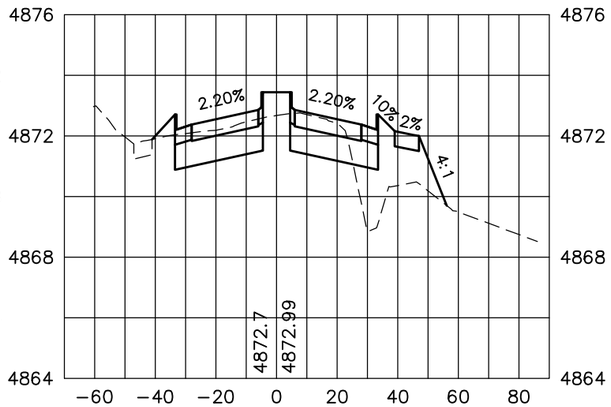
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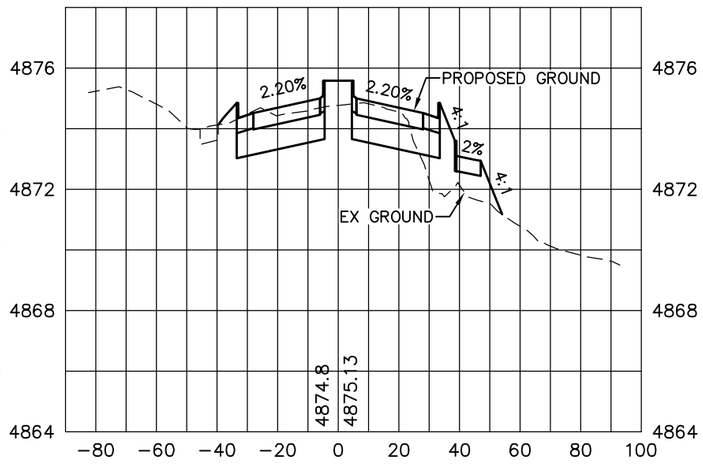
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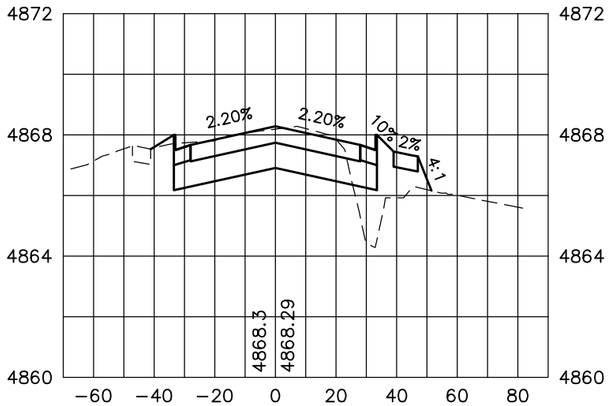
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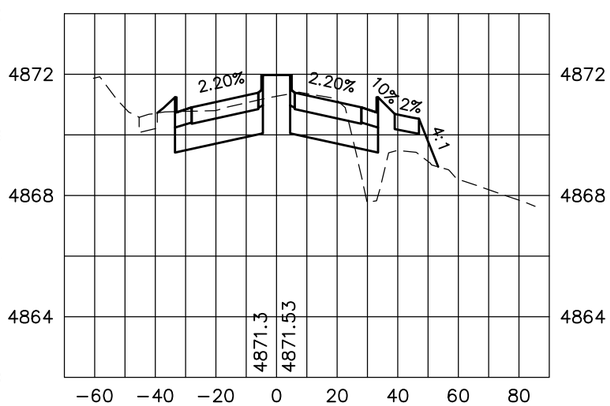
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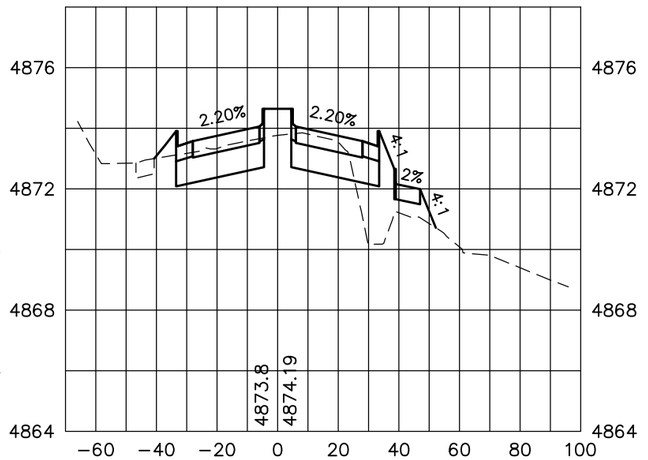
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COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
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No Revisions:	
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Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

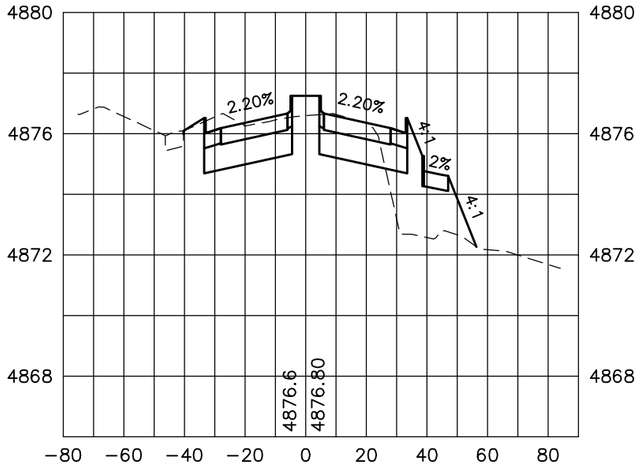
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STU M570-046
20148
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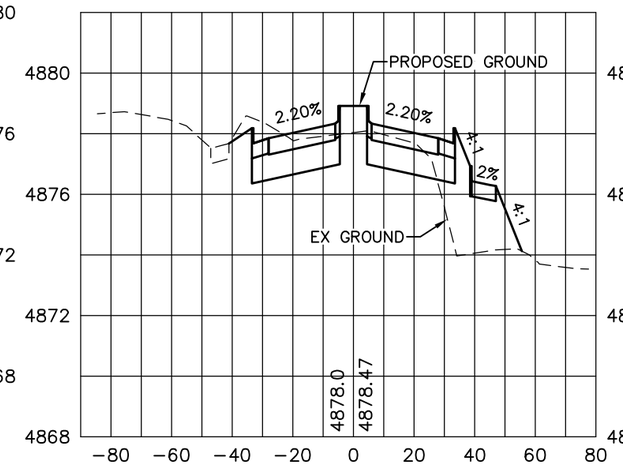
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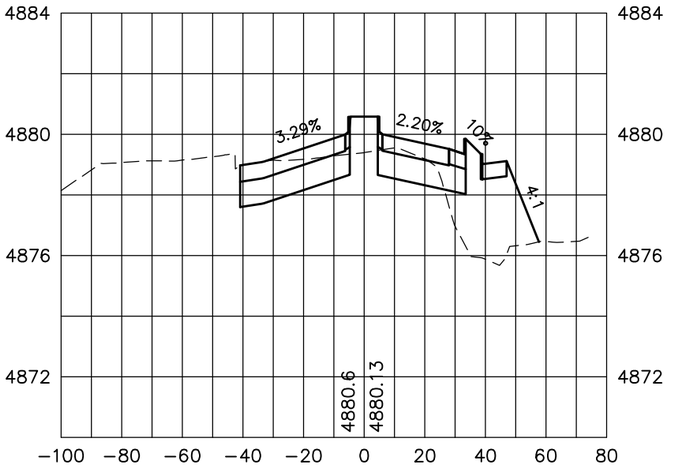
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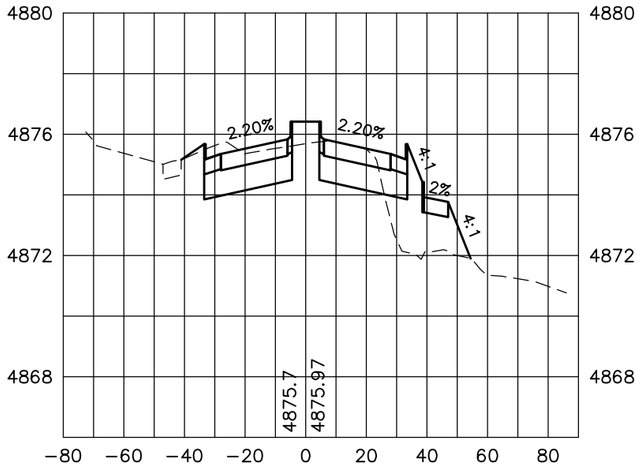
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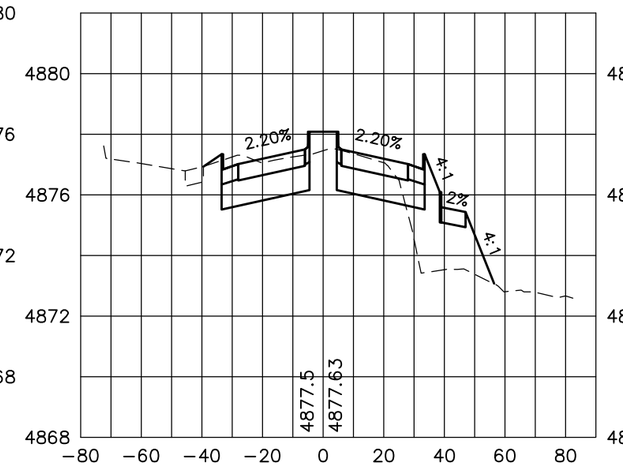
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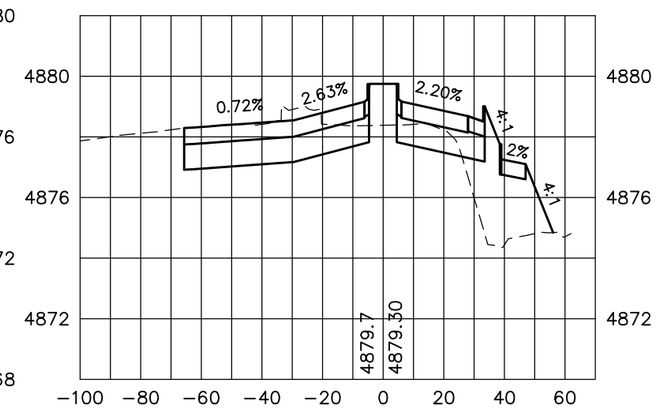
45+50



46+50



47+50



COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

Computer File Information		
Creation Date: 06/10/15		Initials: JDL
Last Modification Date: 10/12/16		Initials: JDL
Full Path:		
Drawing File Name: 1138-083-03 XSEC.dwg		
Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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City of Greeley
City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

ROADWAY
CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

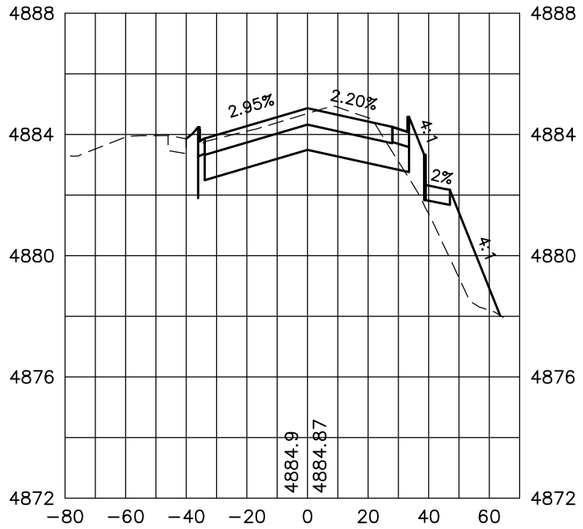
Project No./Code
STU M570-046
20148
SHEET NUMBER 117

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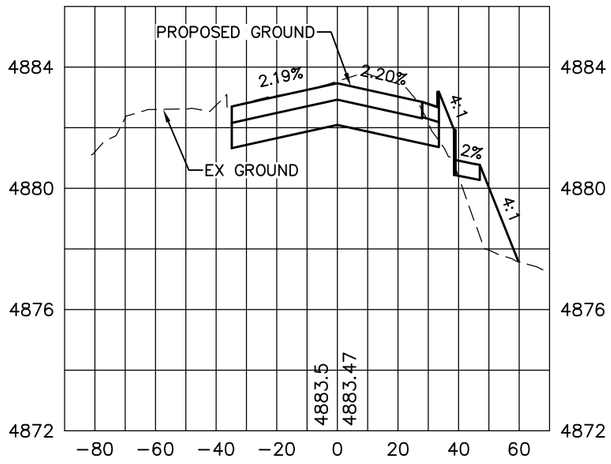
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VERTICAL SCALE: 1" = 5'

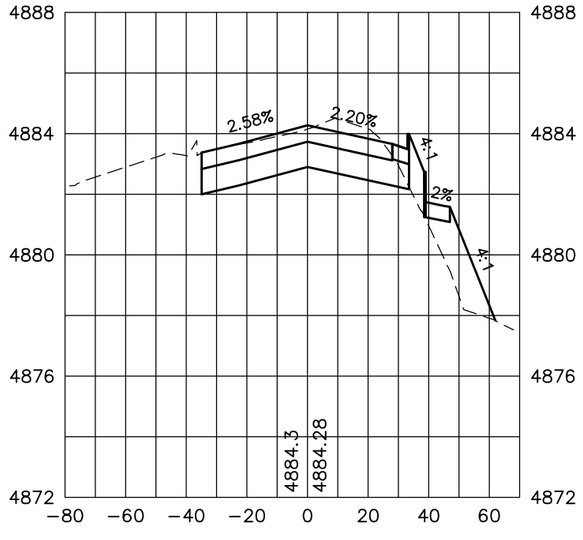
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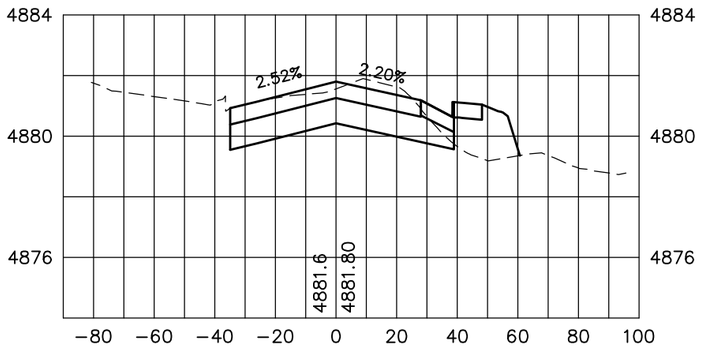
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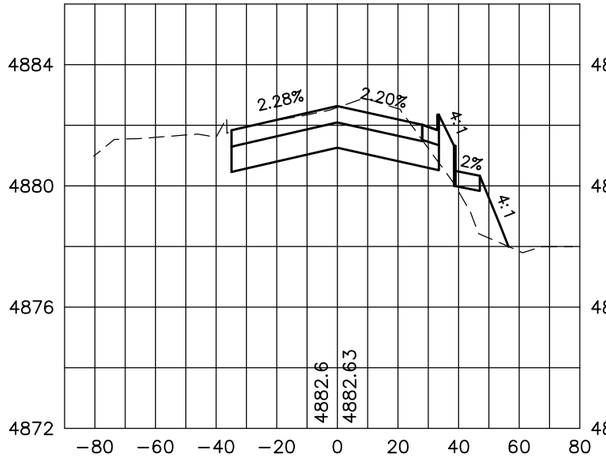
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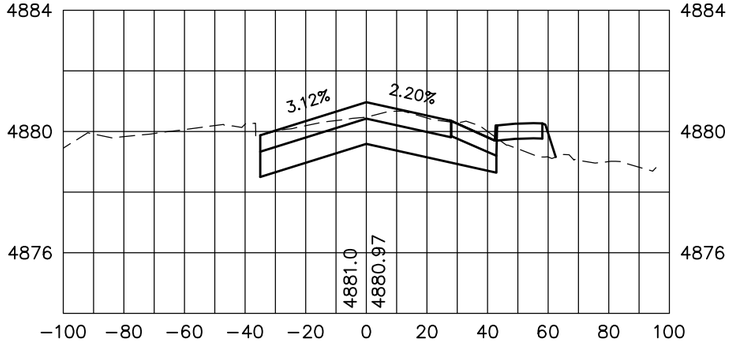
49+00



49+50



48+50



AWARDED SET
FOR CONSTRUCTION

COLORADO REGISTERED MICHAEL PAUL OBERLANDER 34288 10-12-16 PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

ROADWAY CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

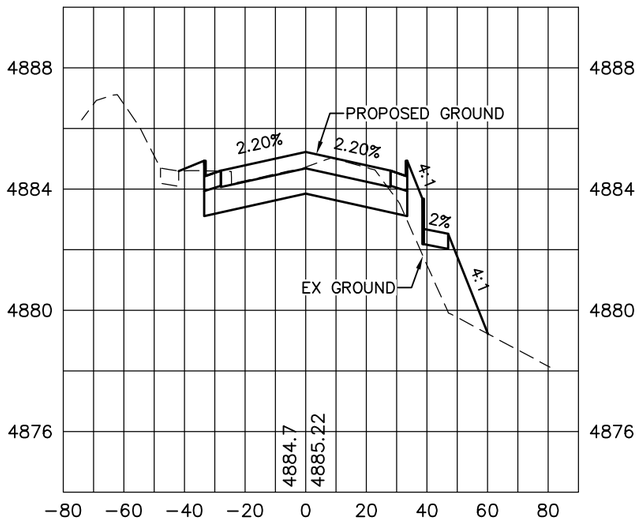
Project No./Code
STU M570-046
20148
SHEET NUMBER 118

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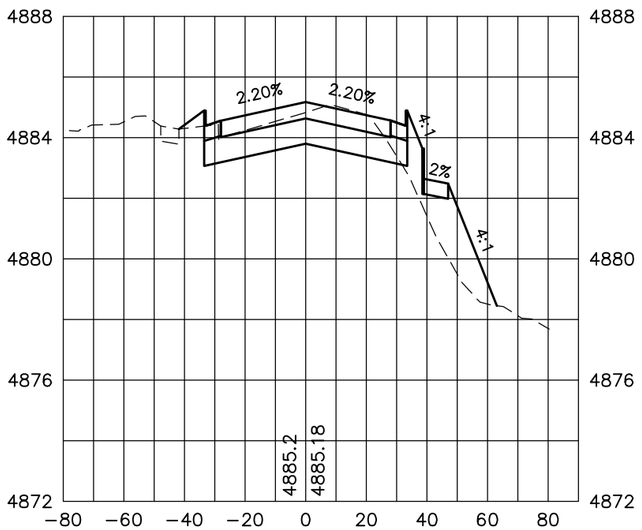
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VERTICAL
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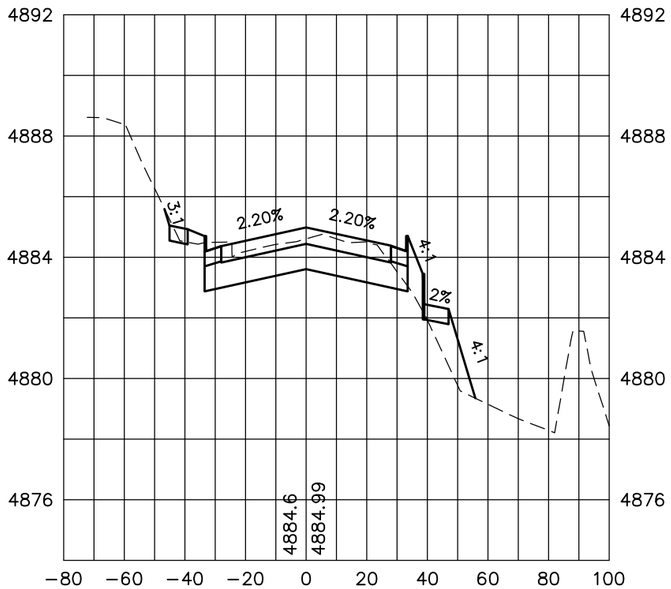
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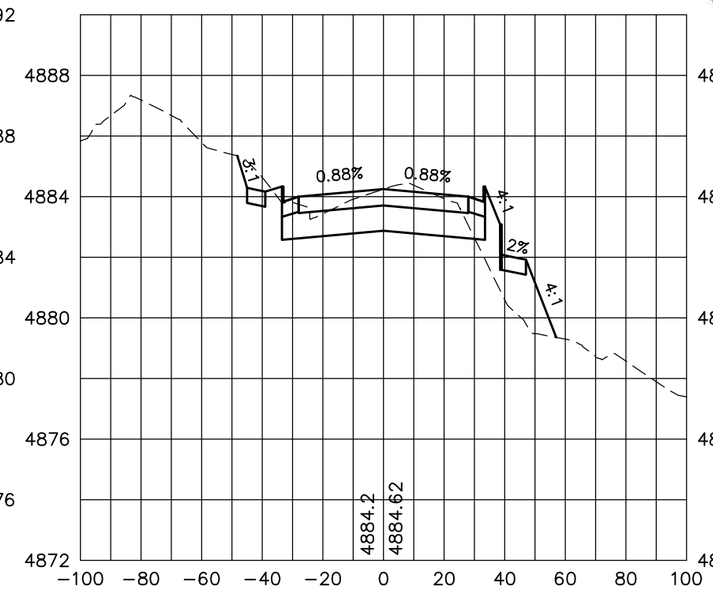
51+50



52+50



53+00



COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
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MEMBER UTILITIES.

AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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Region 4 LHN

As Constructed	ROADWAY CROSS SECTIONS			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 119

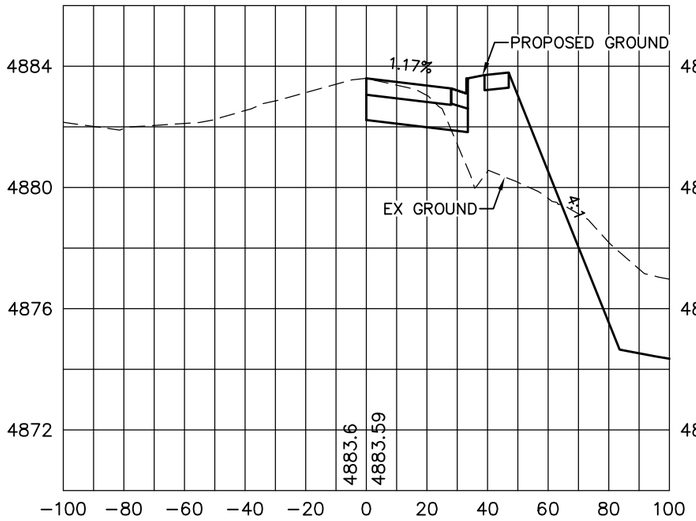
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SCALE: 1" = 50'

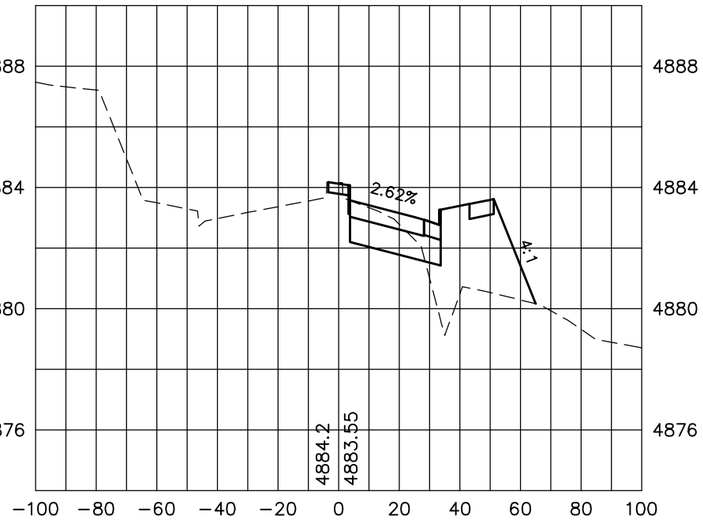
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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
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54+00

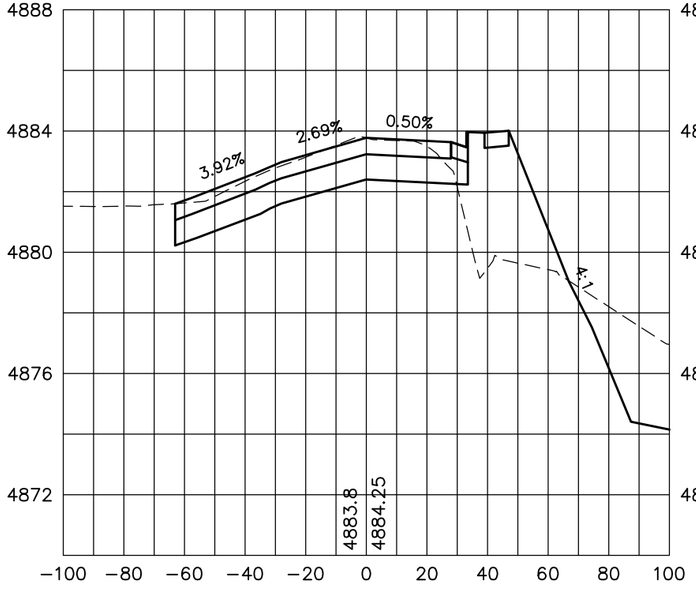


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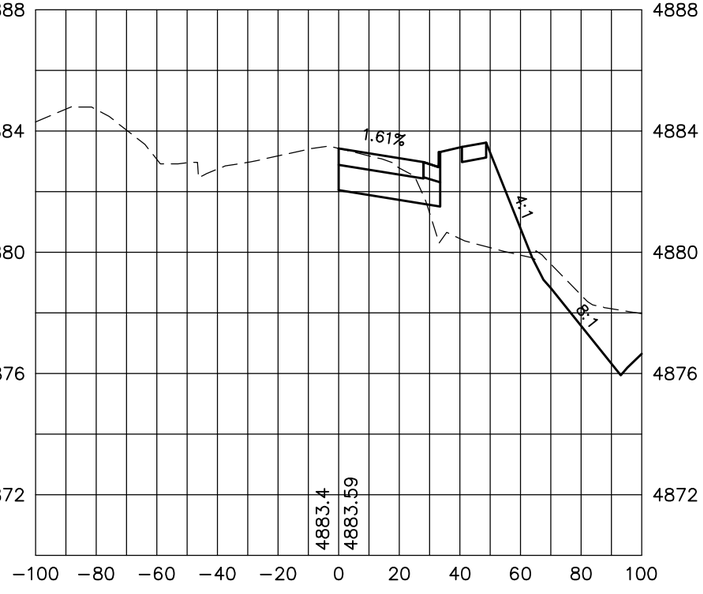


COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

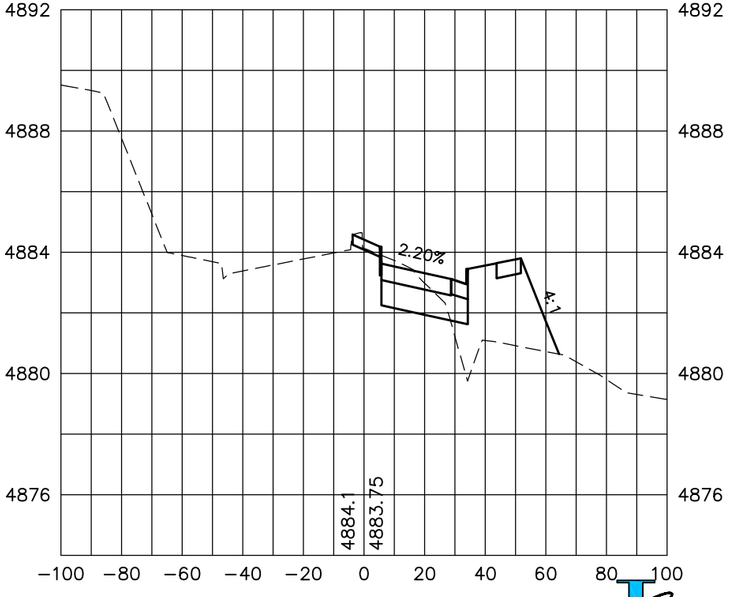
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54+50



55+50



AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

ROADWAY CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 120

25 0 25 50

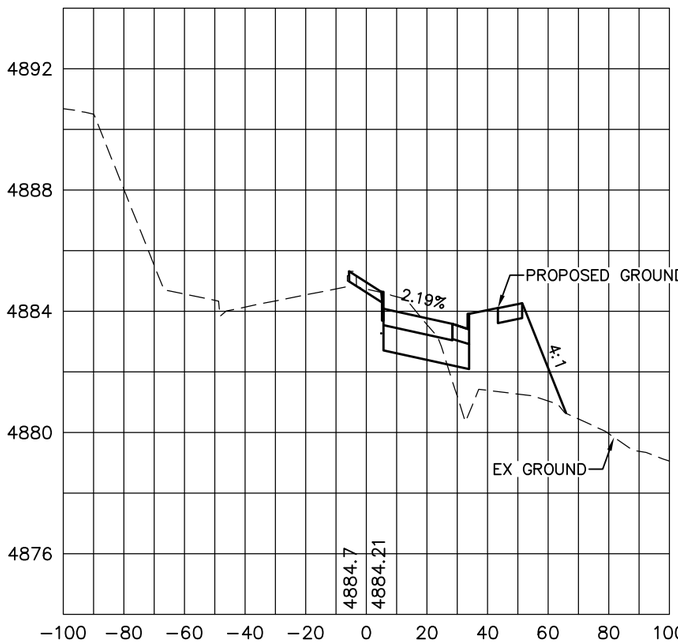
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VERTICAL
SCALE: 1" = 5'

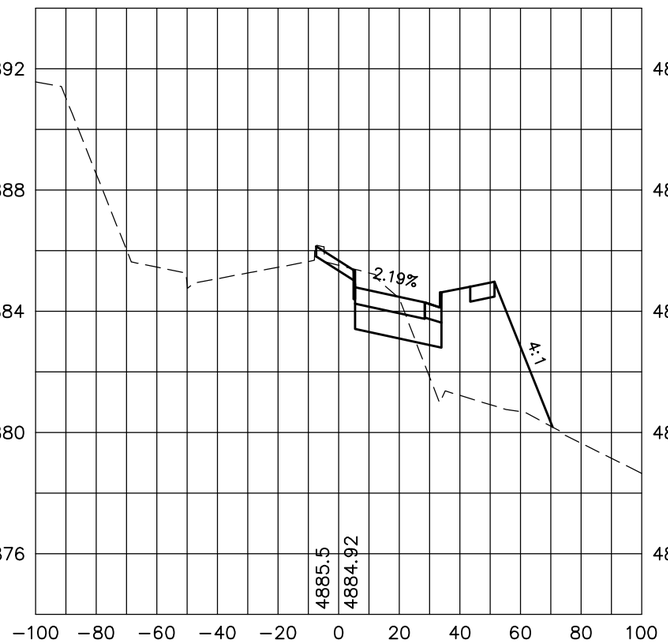
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

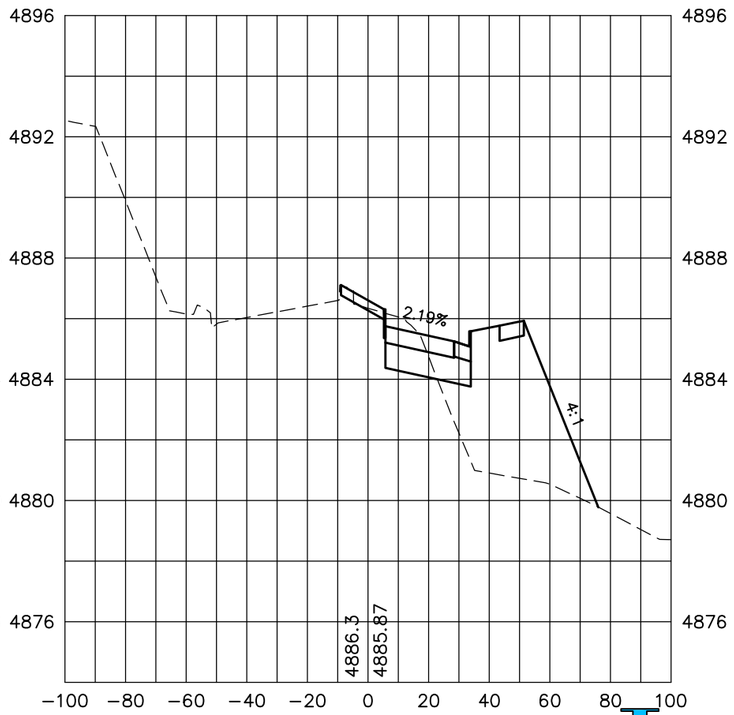
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56+50



57+00



AWARDED SET
FOR CONSTRUCTION

INTERWEST CONSULTING GROUP

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Last Modification Date: 10/12/16		Initials: JDL
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FAX: 970-350-2198
Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

ROADWAY CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER 121

25 0 25 50

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SCALE: 1" = 50'

VERTICAL
SCALE: 1" = 5'

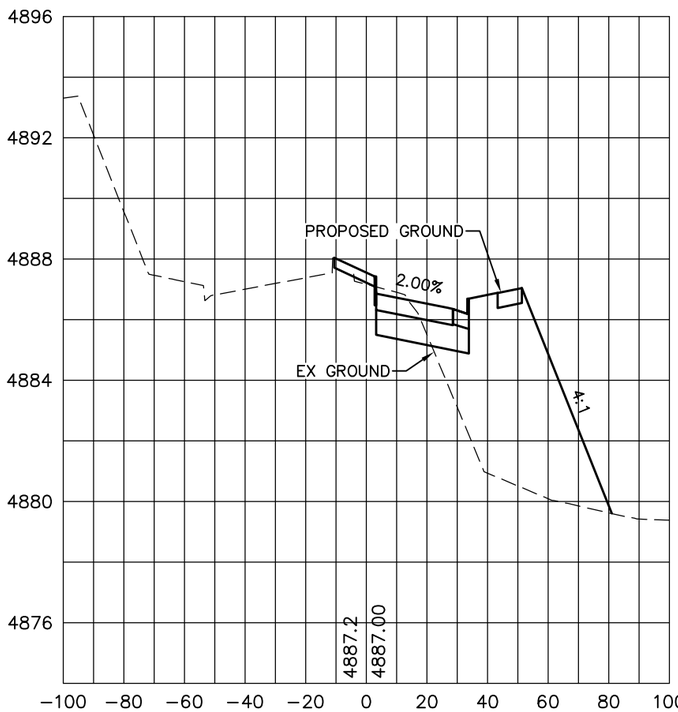
CALL UTILITY NOTIFICATION CENTER OF COLORADO

811

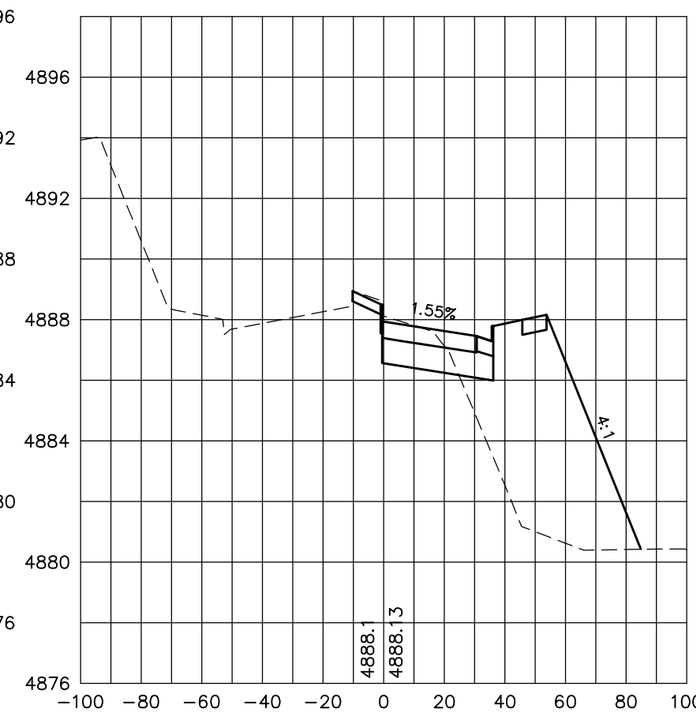
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

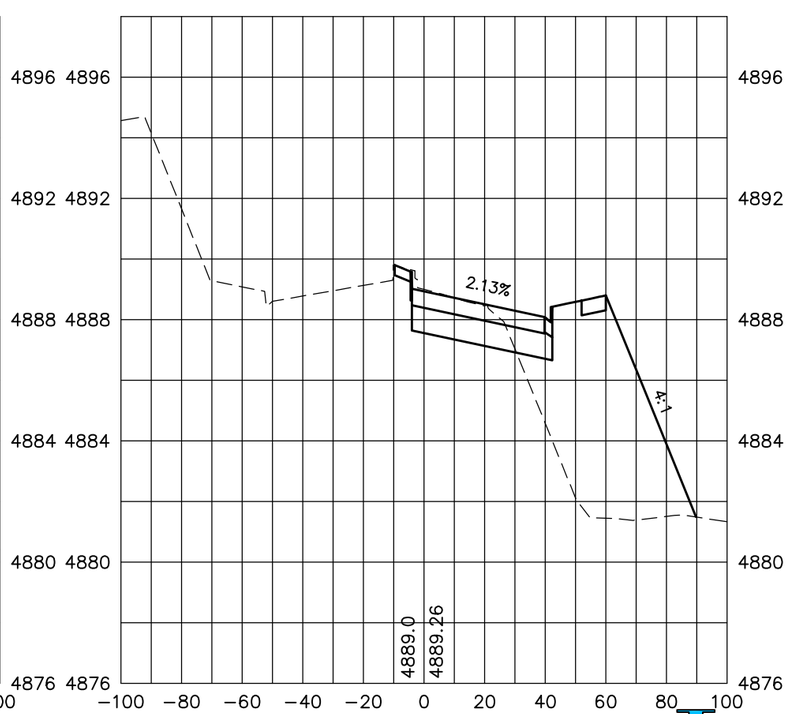
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58+50



AWARDED SET
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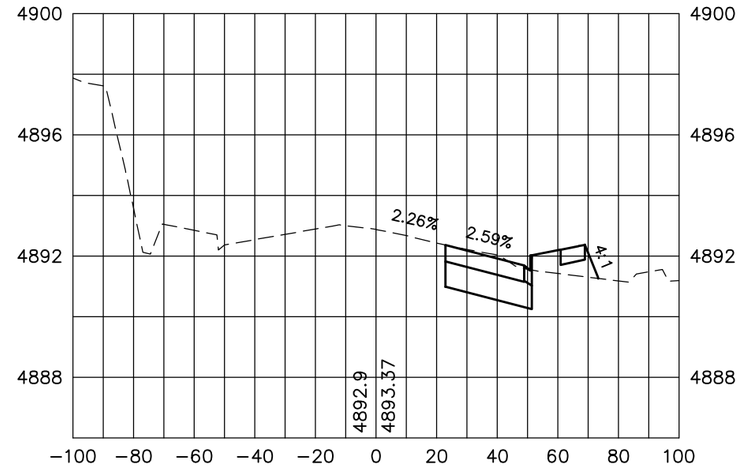
As Constructed	ROADWAY CROSS SECTIONS	Project No./Code
No Revisions:		STU M570-046
Revised:	Designer: J. LOFTON	20148
Void:	Detailer: S. WEIER	SHEET NUMBER 122
	Sheet Subset:	Subset Sheet::

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2–BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

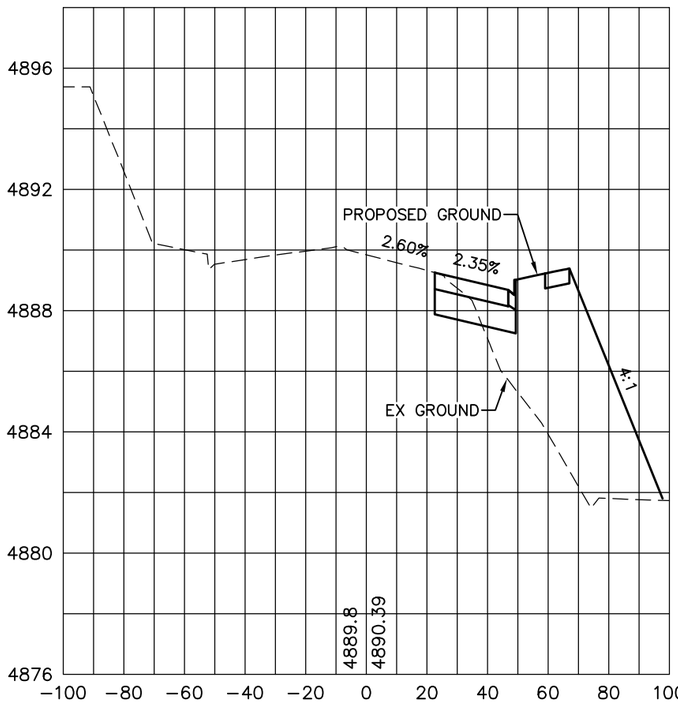


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VERTICAL SCALE: 1" = 5'

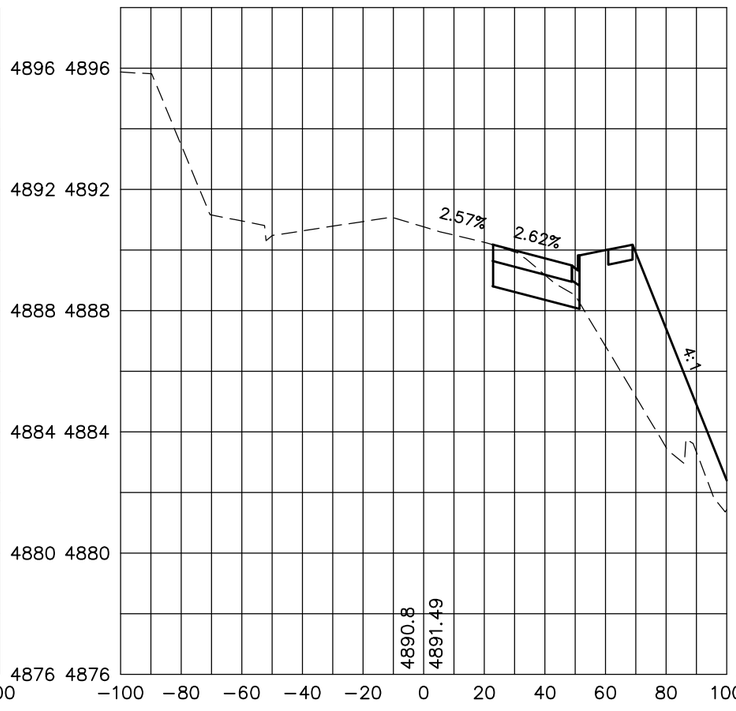
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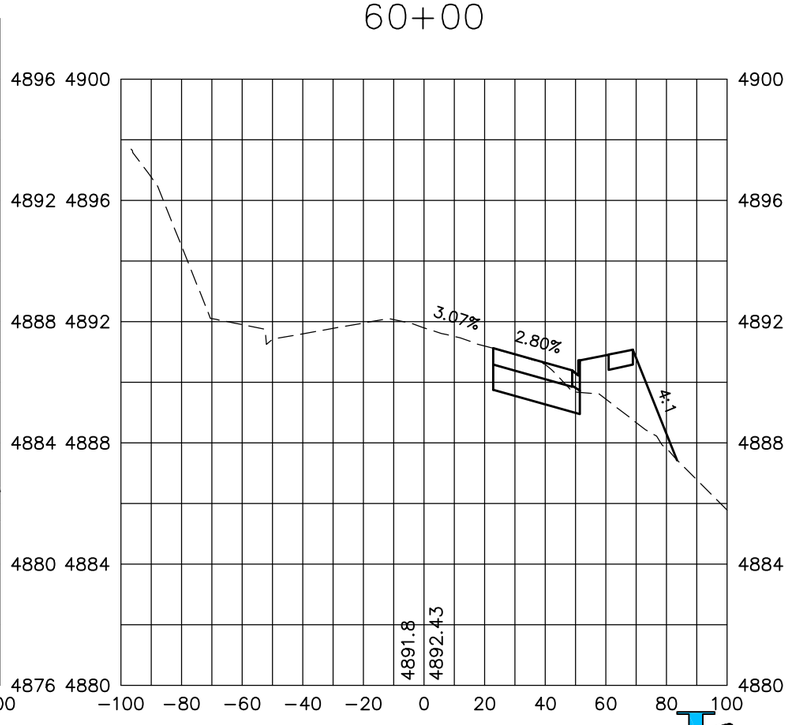
59+00



59+50



60+00



AWARDED SET
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INTERWEST CONSULTING GROUP

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Creation Date: 06/10/15	Initials: JDL
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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

ROADWAY CROSS SECTIONS

Designer:	J. LOFTON		
Detailer:	S. WEIER		
Sheet Subset:		Subset Sheet::	

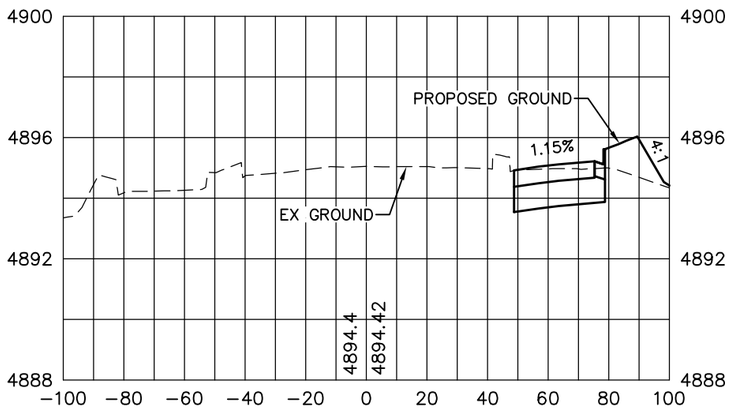
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STU M570–046
20148
SHEET NUMBER 123

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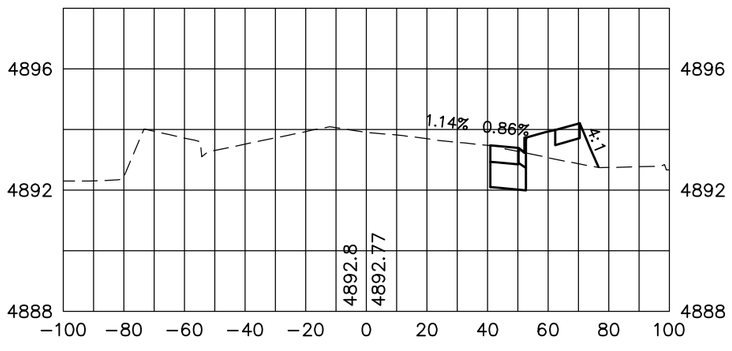
HORIZONTAL
SCALE: 1" = 50'

VERTICAL
SCALE: 1" = 5'

61+50



61+00



COLORADO REGISTERED
MICHAEL PAUL OBERLANDER
34288
10-12-16
PROFESSIONAL ENGINEER

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As Constructed	ROADWAY CROSS SECTIONS			Project No./Code
No Revisions:				STU M570-046
Revised:	Designer: J. LOFTON			20148
Void:	Detailer: S. WEIER			
	Sheet Subset:	Subset Sheet::		SHEET NUMBER 124

TRAFFIC SIGNAL NOTES:

1. WORK INVOLVES THE INSTALLATION OF NEW TRAFFIC SIGNAL EQUIPMENT AND OVERHEAD SIGNING. PAVEMENT MARKINGS ARE SHOWN FOR INFORMATION ONLY. REFER TO THE SIGNING AND MARKING PLANS FOR DETAILS.

2. TRAFFIC SIGNAL MATERIALS AND INSTALLATION SHOULD COMPLY WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AND CURRENT REVISIONS) (COLORADO DEPARTMENT OF TRANSPORTATION, 2011); THE M & S STANDARDS (COLORADO DEPARTMENT OF TRANSPORTATION, JULY 2012); THE "NATIONAL ELECTRIC CODE"; AND ALL LOCAL ORDINANCES REGULATIONS THAT APPLY, EXCEPT AS NOTED ON THESE PLANS OR SPECIAL PROVISIONS. ALL TRAFFIC CONTROL DEVICES FURNISHED AND INSTALLED ON THIS PROJECT SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FEDERAL HIGHWAY ADMINISTRATION, 2009). ALL SIGNAL LIGHT POLES SHALL BE CDOT S-614-40A TYPE.

3. THIS PLAN REPRESENTS A SCHEMATIC ONLY AND ALL ITEM LOCATIONS ARE APPROXIMATE. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4. NO EXCAVATION SHALL BE PERMITTED UNTIL UNDERGROUND UTILITIES HAVE BEEN LOCATED TO THE SATISFACTION OF ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL AERIAL AND UNDERGROUND UTILITIES. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBERS COMPANIES. CALL ORIGINATING OUTSIDE THE DENVER AREA US 1-800-922-1987. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND NOT ALL UTILITIES ARE NECESSARILY SHOWN.

5. TRAFFIC SIGNAL POLE LOCATIONS SHALL BE FIELD VERIFIED BY CITY OF GREELEY TRAFFIC OPERATIONS (970-350-9369) PRIOR TO SETTING THE FOUNDATION.

6. ALL PULL BOXES SHALL BE FLUSH WITH FINISHED GROUND SURFACE.

7. ALL CONDUITS SHALL HAVE A PULL ROPE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED. ALL CONDUIT UNDER EXISTING ROADWAYS SHALL BE DIRECTIONALLY BORED. ALL OTHER CONDUIT WILL BE SCHEDULE 80 PVC.

8. ALL SIGNAL CABLE IS CONTINUOUS FROM CONNECTIONS MADE IN THE HANDHOLE COMPARTMENT OF SIGNAL POLE BASE TO THE TERMINAL COMPARTMENT IN THE CONTROLLER CABINET. SPLICING SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

9. ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING AND ALL WORK AND INCIDENTAL ITEMS NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THESE PLANS.

10. CONTRACTOR SHALL COMPLETE ALL WORK NECESSARY FOR THE OPERATION OF THE SYSTEM, AND SHALL CONTACT CITY OF GREELEY TRAFFIC OPERATIONS TO SCHEDULE A COMPLIANCE INSPECTION. UPON COMPLETION OF THE INSPECTION, THE FIELD OPERATIONAL TESTING SHALL BEGIN. THE COMPLETE TRAFFIC SYSTEM SHALL BE FULLY OPERATIONAL AND FULLY TESTED AT THE COMPLETION OF THE PROJECT.

11. ANY REMAINING SOIL LEFT FROM DRILLING SHALL BE REMOVED FROM THE SITE AT THE COST OF THE CONTRACTOR AND SHALL NOT BE PAID FOR SEPARATELY. CONTRACTOR SHALL WASH CONCRETE TRANSPORT TRUCK OFF-SITE OR PROVIDE WASH-OUT.

12. ALL CONDUCTORS SHALL BE COLOR-CODED AND PERMANENTLY TAGGED.

13. ALL WORK ZONE TRAFFIC CONTROL SHALL CONFORM TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF GREELEY FOR APPROVAL PRIOR TO COMMENCING WORK.

14. UPON COMPLETION OF WORK, CONTRACTOR SHALL SUPPLY RECORD DRAWINGS, CORRECTED PLANS AND ANY OTHER ADDITIONAL DATA REQUIRED BY THE ENGINEER.

QUANTITY TABULATION:

ITEM #	ITEM DESCRIPTION	UNIT	QTY
503-00018	DRILLED CAISSON (18 INCH)	LF	5
503-00036	DRILLED CAISSON (36 INCH)	LF	57
613-00200	2 INCH ELECTRICAL CONDUIT	LF	4200
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	375
613-00300	3 INCH ELECTRICAL CONDUIT	LF	2100
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	525
613-07199	PULL BOX (INSTALL ONLY)	EA	22
613-10000	WIRING	LS	1
613-13000	LUMINAIRE (LED)	EA	3
614-75219	PEDESTRIAN SIGNAL FACE (COUNTDOWN) (INSTALL ONLY)	EA	4
614-75336	TRAFFIC SIGNAL FACE (12-12-12) (INSTALL ONLY)	EA	10
614-75560	TRAFFIC SIGNAL FACE (12-12-12-12) (INSTALL ONLY)	EA	2
614-75855	TRAFFIC SIGNAL CONTROLLER CABINET (INSTALL ONLY)	EA	1
614-75860	PEDESTRIAN PUSH BUTTON (INSTALL ONLY)	EA	4
614-75866	FIRE PREEMPTION UNIT AND TIMER (INSTALL ONLY)	EA	2
614-72888	MICROWAVE VEHICLE RADAR DETECTOR (INSTALL ONLY)	EA	3
614-81301	TRAFFIC SIGNAL-LIGHT POLE STEEL (INSTALL ONLY)	EA	3
614-84455	TRAFFIC SIGNAL PEDESTAL POLE (INSTALL ONLY)	EA	1
SPECIAL	UNINTERRUPTED POWER SUPPLY (INSTALL ONLY)	EA	1

COLORADO LICENSED
STEVEN G. TUTTLE
34336
10-12-16
PROFESSIONAL ENGINEER

AWARD SET
FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

FOX TUTTLE HERNANDEZ TRANSPORTATION GROUP

Computer File Information		
Creation Date: 2/23/16	Initials: SGT	
Last Modification Date: 10/12/16	Initials: SGT	
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Acad Ver. 2007	Scale: N/A	Units: ENGLISH

Index of Revisions		

City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

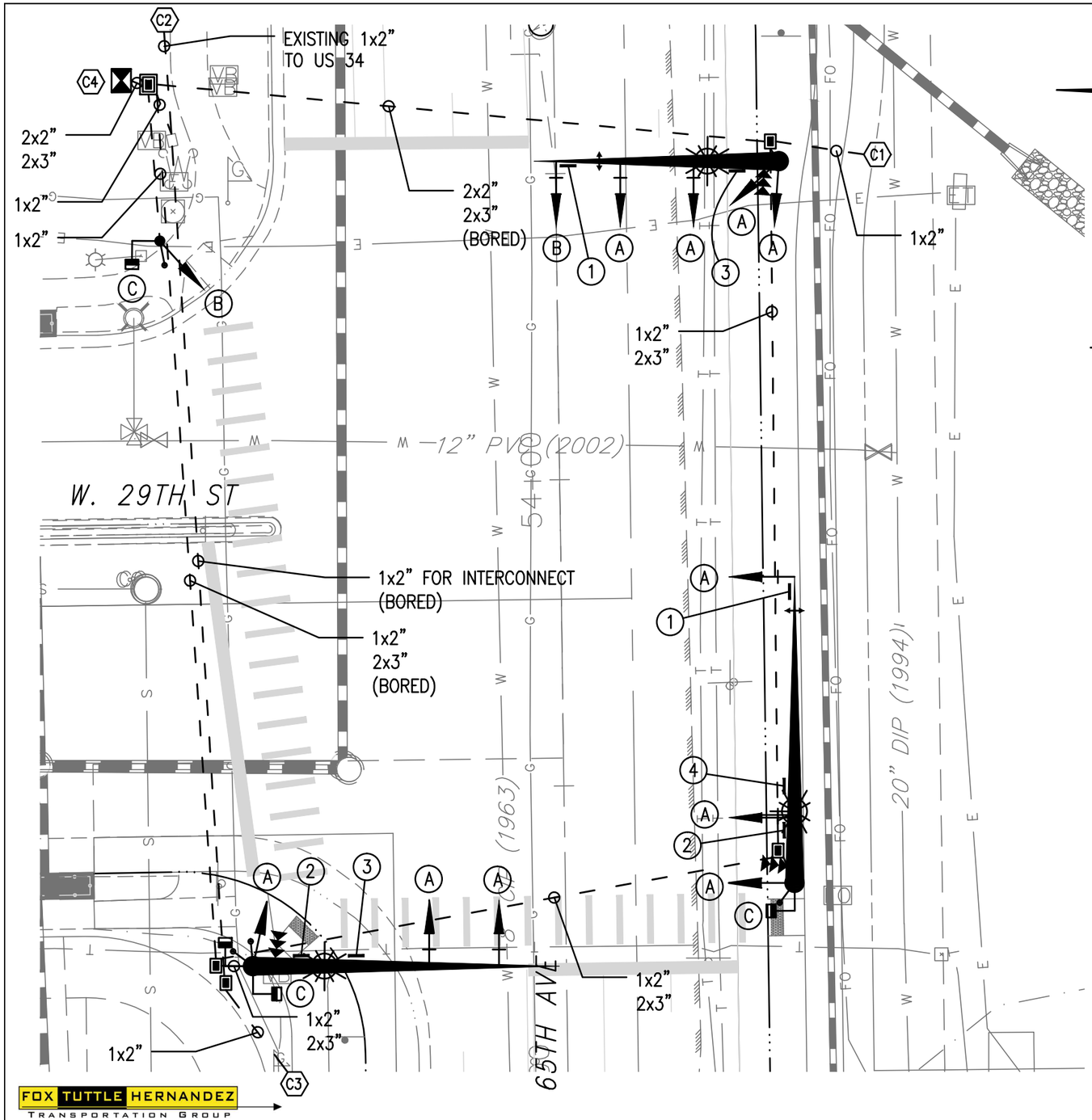
CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

TRAFFIC SIGNAL NOTES

Designer: S. TUTTLE
Detailer:
Sheet Subset: SIGNAL
Subset Sheet:

Project No./Code
STU M570-046
20148
SHEET NUMBER SIG-1



FOX TUTTLE HERNANDEZ
TRANSPORTATION GROUP

LEGEND

- NEW TRAFFIC SIGNAL LIGHT POLE (CDOT S-614-40A TYPE) (INSTALL ONLY) w/ 250-W EQUIVALENT LED LUMINAIRE
- TRAFFIC SIGNAL PEDESTAL POLE (INSTALL ONLY)
- NEW SIGNAL INDICATION (INSTALL ONLY)
- NEW SIGNAL INDICATION WITH BACK PLATE (INSTALL ONLY)
- NEW PEDESTRIAN SIGNAL INDICATION (INSTALL ONLY)
- NEW PEDESTRIAN PUSH BUTTON (POLARA AUDIBLE ADA TYPE) (INSTALL ONLY)
- NEW PULL BOX (13"x24"x12") (INSTALL ONLY)
- NEW PULL BOX (24"x36"x18') (INSTALL ONLY)
- NEW SIGNAL CABINET (332D TYPE) AND CONTROLLER (MCCAIN 750CF) (INSTALL ONLY)
- NEW PVC CONDUIT (SCHEDULE 80)
- NEW MICROWAVE STOP BAR DETECTION UNIT (ECONOLITE ACCUSCAN) (INSTALL ONLY)
- NEW OPTICOM FIRE PREEMPTION UNIT (INSTALL ONLY)

SIGN DETAIL

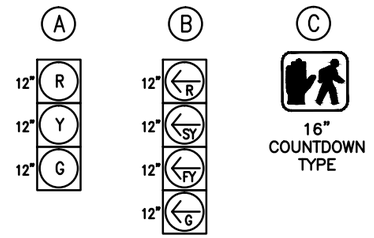
1 — ONLY — R3-5 30"X36"

2 — ONLY — R3-5R 30"X36"

3 — Greeley W 29TH ST — STREET NAME SIGN (SEE CITY SPECIFICATIONS)

4 — Greeley 65TH AVE — STREET NAME SIGN (SEE CITY SPECIFICATIONS)

SIGNAL DETAIL



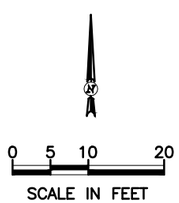
CONSTRUCTION NOTES:

C1 — 2" CONDUIT TO POWER POINT OF SERVICE (TBD); FURNISH AND INSTALL NEW METER PEDESTAL AT POINT OF SERVICE

C2 — EXISTING 2" CONDUIT FOR SIGNAL INTERCONNECT TO US 34 (1' BEHIND WALK) – TERMINATES AT NW CORNER; NEW 2" CONDUIT TO BE FURNISHED AND INSTALLED SOUTH TO 32ND ST RD PER THESE PLANS

C3 — 2" CONDUIT FOR SIGNAL INTERCONNECT TO W. 32ND STREET ROAD (APPROX. 1600') (1' BEHIND SIDEWALK)

C4 — SET CONTROLLER CABINET SUCH THAT WATER FLOWS AWAY FROM CABINET BASE



AWARD SET
FOR CONSTRUCTION



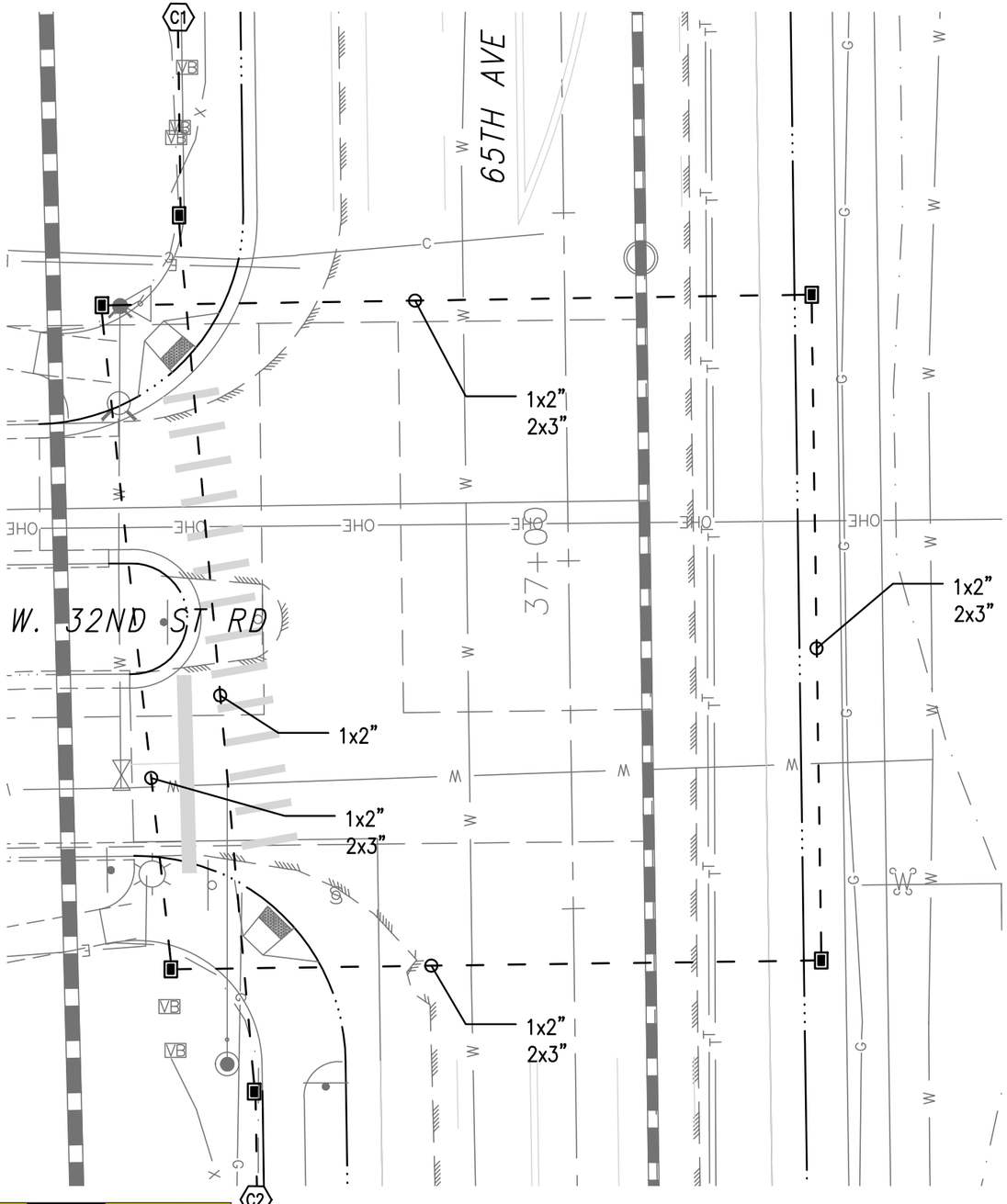
CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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Last Modification Date: 10/12/16	Initials: SGT							
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City of Greeley
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Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed	TRAFFIC SIGNAL PLAN	Project No./Code
No Revisions:	65TH AVE & W. 29TH ST	STU M570-046
Revised:	Designer: S. TUTTLE	20148
Void:	Detailer:	
	Sheet Subset: SIGNAL	Subset Sheet:: SHEET NUMBER SIG-2



FOX TUTTLE HERNANDEZ
TRANSPORTATION GROUP

LEGEND

- NEW PULL BOX (13"x24"x12")
- NEW PVC CONDUIT (SCHEDULE 80)

CONSTRUCTION NOTES:

(C1) 2" CONDUIT FOR SIGNAL INTERCONNECT TO W. 29TH ST (APPROX. 1600') (1' BEHIND SIDEWALK)

(C2) 2" CONDUIT FOR SIGNAL INTERCONNECT TO W. 34TH STREET ROAD (APPROX. 1125') (1' BEHIND SIDEWALK)

COLORADO LICENSED
STEVEN G. TUTTLE
34336
10-12-16
PROFESSIONAL ENGINEER

0 5 10 20
SCALE IN FEET

AWARD SET
FOR CONSTRUCTION

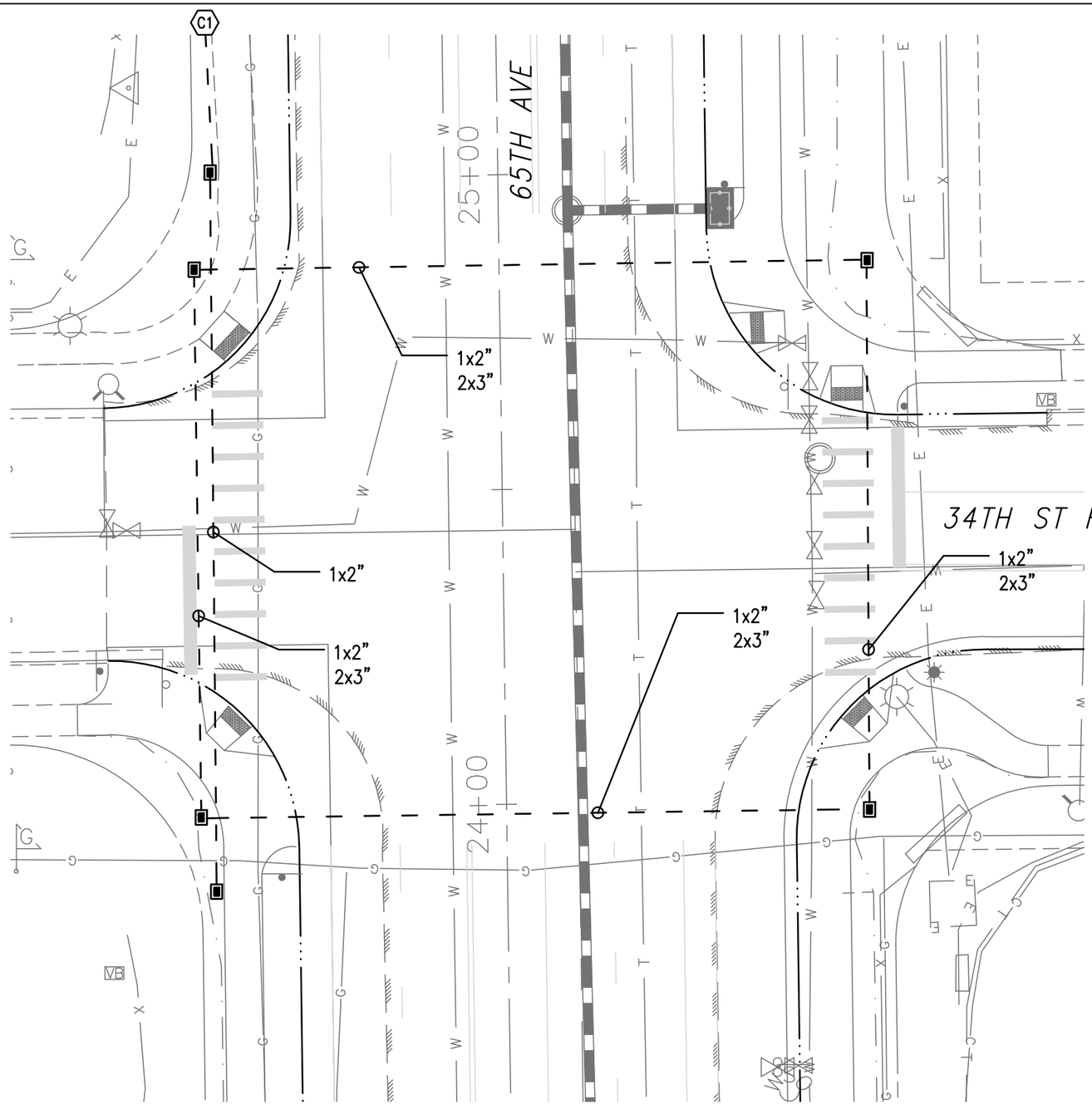
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As Constructed	TRAFFIC SIGNAL PLAN	Project No./Code
No Revisions:	65TH AVE & W. 32ND ST. RD.	STU M570-046
Revised:	Designer: S. TUTTLE	20148
Void:	Detailer:	
	Sheet Subset: SIGNAL Subset Sheet::	SHEET NUMBER SIG-3



LEGEND

- NEW PULL BOX (13"x24"x12")
- NEW PVC CONDUIT (SCHEDULE 80)

CONSTRUCTION NOTES:

(C1) 2" CONDUIT FOR SIGNAL INTERCONNECT TO W. 32ND STREET ROAD (APPROX. 1125') (1' BEHIND SIDEWALK)

0 5 10 20
SCALE IN FEET

COLORADO LICENSED
STEVEN G. TUTTLE
34336
10-12-16
PROFESSIONAL ENGINEER

AWARD SET
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TRANSPORTATION GROUP

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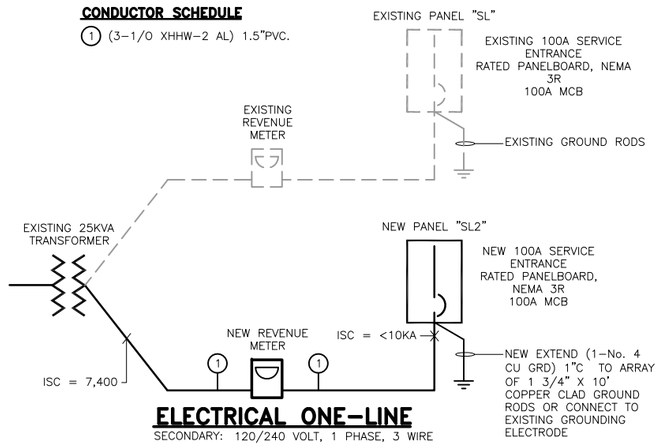
As Constructed	
No Revisions:	
Revised:	
Void:	

TRAFFIC SIGNAL PLAN 65TH AVE & W. 34TH ST. RD.			
Designer: S. TUTTLE			
Detailer:			
Sheet Subset: SIGNAL		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER SIG-4

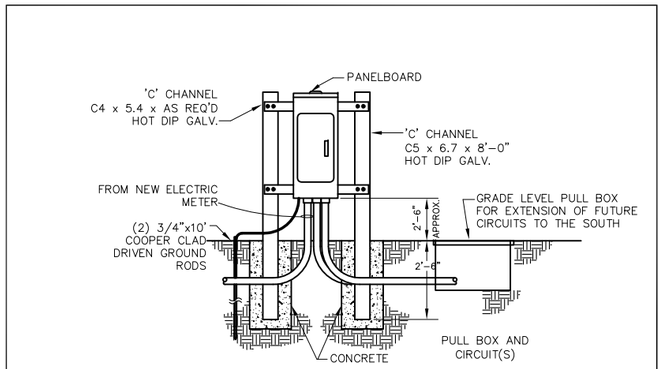
CONDUCTOR SCHEDULE

(1) (3-1/0 XHHW-2 AL) 1.5"PVC.



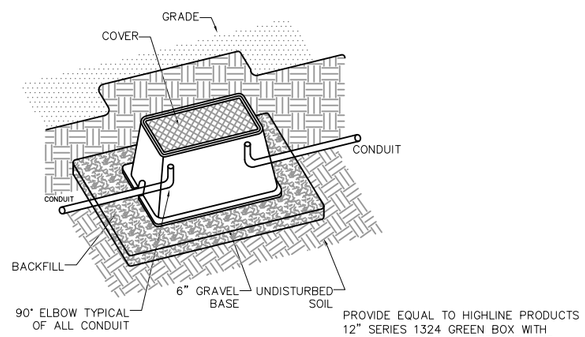
ELECTRICAL ONE-LINE

SECONDARY: 120/240 VOLT, 1 PHASE, 3 WIRE



TYPICAL PANEL SUPPORT STRUCTURE

NO SCALE



PROVIDE EQUAL TO HIGHLINE PRODUCTS 12" SERIES 1324 GREEN BOX WITH SOLID BOLTED, GASKETED TOP. SEE SCHEDULE FOR SIZING.

PULL BOX DETAIL

NO SCALE

65th Street | **240/120 VOLT** | **1 PHASE 3 W** | BUS: **100A CU** | MAIN: **100A MAIN CIRCUIT BREAKER** | Fault Current Rating: 10,000 | PANEL: **EXISTING SL** | LOCATION: **EXTERIOR** | FED FROM: **25 KVA PVREA XFRMR** | MOUNTING: **SURFACE**

VOLTAGE DROP	BRANCH CIRCUIT DESCRIPTION	ID	BREAKER	DESCRIPTION	V - A	CIRCUIT	PHASE	CIRCUIT	V - A	DESCRIPTION	BREAKER	ID	BRANCH CIRCUIT DESCRIPTION	VOLTAGE DROP
2.00%	C12006006	D	20	**NEW IRRIGATION CONTROL**	**200**	1	A	2	120	Existing Street Poles	20	L		0.00%
0.00%		+	20	- Spare -	0	3	B	4	200	Existing Irrigation Control	20	D		0.00%
0.00%		+	20	- Spare -	0	5	A	6	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	7	B	8	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	9	A	10	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	11	B	12	0	- Spare -	20	+		0.00%

	CONNECTED LOAD (Downstream Loads Included)	TOTALS
	Phase A	**320**
	Phase B	**200**

NOTES

* = GFCI PROTECTED BREAKER REQUIRED

BRANCH CIRCUIT DESCRIPTION CODE: ABCDDDEEE = A-B-C-DDD-EEE

A 1 DIGIT CONDUCTOR METAL (A FOR ALUMINUM AND C FOR COPPER)
B # PARALLEL RUNS
C # NON-GROUND CONDUCTORS (INCLUDE POWER AND NEUTRALS)
DDD 3 DIGIT SIZING OF NON-GROUNDED CONDUCTORS
EEE 3 DIGIT SIZING OF GROUND

EXAMPLE: C12010010C = C-1-2-010-010 = CU 1 RUN OF 2 #10AWG W/ #10AWG GROUND

LOAD SUMMARY

CATEGORY	CONNECTED	FACTOR	CALCULATED V-A	AMPS
LIGHTING	120	125%	150	0.6
GENERAL RECEPTACLE	0	100%	0	0.0
REMAINING GENERAL REC.	0	50%	0	0.0
DEDICATED RECEPTACLE	400	100%	**400**	**1.7**
MOTOR	0	100%	0	0.0
B - LARGEST MOTOR	0	125%	0	0.0
+ MISCELANEOUS	0	100%	**0**	**0.0**
KITCHEN	0	65%	0	0.0
ELECTRIC HEAT	0	125%	0	0.0
Total Demand:			**550**	**2**

65th Street | **240/120 VOLT** | **1 PHASE 3 W** | BUS: **100A CU** | MAIN: **100A MAIN CIRCUIT BREAKER** | Fault Current Rating: 10,000 | PANEL: **NEW SL2** | LOCATION: **EXTERIOR** | FED FROM: **25 KVA PVREA XFRMR** | MOUNTING: **SURFACE**

VOLTAGE DROP	BRANCH CIRCUIT DESCRIPTION	ID	BREAKER	DESCRIPTION	V - A	CIRCUIT	PHASE	CIRCUIT	V - A	DESCRIPTION	BREAKER	ID	BRANCH CIRCUIT DESCRIPTION	VOLTAGE DROP
0.00%		+	20	**FUTURE TRAFFIC SIGNAL AT 32ND**	0	1	A	2	0	- Spare -	20	+		0.00%
2.00%	C12010010	D	20	**TRAFFIC SIGNAL AT 29TH STREET**	**1200**	3	B	4	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	5	A	6	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	7	B	8	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	9	A	10	0	- Spare -	20	+		0.00%
0.00%		+	20	- Spare -	0	11	B	12	0	- Spare -	20	+		0.00%

	CONNECTED LOAD (Downstream Loads Included)	TOTALS
	Phase A	**0**
	Phase B	**1200**

NOTES

* = GFCI PROTECTED BREAKER REQUIRED

BRANCH CIRCUIT DESCRIPTION CODE: ABCDDDEEE = A-B-C-DDD-EEE

A 1 DIGIT CONDUCTOR METAL (A FOR ALUMINUM AND C FOR COPPER)
B # PARALLEL RUNS
C # NON-GROUND CONDUCTORS (INCLUDE POWER AND NEUTRALS)
DDD 3 DIGIT SIZING OF NON-GROUNDED CONDUCTORS
EEE 3 DIGIT SIZING OF GROUND

EXAMPLE: C12010010C = C-1-2-010-010 = CU 1 RUN OF 2 #10AWG W/ #10AWG GROUND

LOAD SUMMARY

CATEGORY	CONNECTED	FACTOR	CALCULATED V-A	AMPS
LIGHTING	0	125%	0	0.0
GENERAL RECEPTACLE	0	100%	0	0.0
REMAINING GENERAL REC.	0	50%	0	0.0
DEDICATED RECEPTACLE	1200	100%	**1,200**	**5.0**
MOTOR	0	100%	0	0.0
B - LARGEST MOTOR	0	125%	0	0.0
+ MISCELANEOUS	0	100%	0	0.0
KITCHEN	0	65%	0	0.0
ELECTRIC HEAT	0	125%	0	0.0
Total Demand:			**1,200**	**5**

ELECTRICAL LEGEND

- EB — ELECTRICAL PULL BOX (SEE PULLBOX/J-BOX SCHEDULE FOR SIZE)
- -E2C- -E2C- — 2" CONDUIT
- 1 — ELECTRICAL FLAG NOTE
- (1) — POWER CABLE DESIGNATION (SEE SCHEDULE)
- J — JUNCTION BOX
- EXISTING STREET LIGHT
- STREET LIGHT BY OTHERS

PULL BOX SCHEDULE	
A	12"X12"X12"
B	12"X16"X18"
C	13"X24"X18"
D	17"X30"X18"
E	24"X30"X18"
F	16"X16"X18"

GENERAL NOTES:

1. COORDINATE BORING AND TRENCHING WITH CITY.
2. RE-COMPACTION TESTING FOR BORING AND OPEN TRENCHING
3. COORDINATE LOCATION OF J-BOX FOR LANDSCAPING.
4. TRENCH DETAILS SUPPLIED BY ARCHITECT OR CIVIL.
5. USE HDPE FOR BORING OR PVC IN SLEEVE.
6. CONDUIT SIZE AS SHOWN ON CONDUIT SCHEDULE.
7. CONTRACTOR TO BORE CONDUIT UNDER ALL ROADWAYS AND UNDER DRIVEWAYS AS REQUIRED BY CITY.
8. PULL BOXES SHOWN ARE REQUIRED. INSTALL TO FOLLOW DRAWINGS INCLUDING CONDUITS SCHEDULE.
9. ALL CONDUCTORS TO BE #8 AWG MINIMUM TO REDUCE VOLTAGE DROP EXCEPT #10 AWG PIGTAILS AT FIXTURES (<35').
10. ALL CONDUCTORS TO BE LABELED WITH CIRCUIT NUMBER AT EVERY ACCESSIBLE LOCATION WITH ENOUGH SLACK FOR FUTURE TERMINATIONS OR CURRENT CONNECTION. NEUTRALS TO BE BUNDLED WITH OTHER CIRCUIT CONDUCTORS AT ACCESSIBLE POINTS.
11. ALL CONNECTIONS AND SPLICES TO BE MADE USING UL LISTED APPROVED MEANS.
12. CONTRACTOR TO BE AWARE OF STORM DRAIN AND OTHER UTILITIES AND ROUTE ELECTRICAL CONDUIT ACCORDINGLY.
13. ALL J-BOXES AND PULL-BOXES TO BE LABELED INTERNALLY WITH ENGRAVED PHENOLIC LABELS INDICATING CONDUIT NUMBERS CONNECTED TO J-BOX AND J-BOX ID NUMBERS.
14. CONTRACTOR TO BE AWARE OF FUTURE IMPROVEMENTS. COORDINATE WITH CITY AS POSSIBLE.
15. ALL RECEPTACLES TO HAVE GFCI PROTECTED AND HAVE HEAVY OR EXTRA DUTY ALL METAL WEATHERPROOF WHILE IN USE COVERS.
16. CONTRACTOR TO SHARE TRENCH WITH IRRIGATION WHERE POSSIBLE.
17. CONDUIT ROUTES ARE DIAGRAMMATIC. CONTRACTOR TO ROUTE CONDUITS WITHIN EASEMENT AND COORDINATE WITH LANDSCAPING AROUND THE NEW AND EXISTING TREES AS REQUIRED.

COLORADO LICENSED NANCY E. SCHNEIDER 216-405 0048556 PROFESSIONAL ENGINEER 10/10/12

AWARDED SET FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ESC engineering
FORT COLLINS COLORADO
(970) 224-9100 esc@thinkESC.COM

DRAWN BY: DA CHK. BY: JEB
DESIGN BY: YS APP. BY: YS
PLOT DATE: 10/12/16

INTERWEST CONSULTING GROUP

Computer File Information	
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Last Modification Date: 10/12/16	Initials: DA
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FAX: 970-350-2198
Region 4 LHN

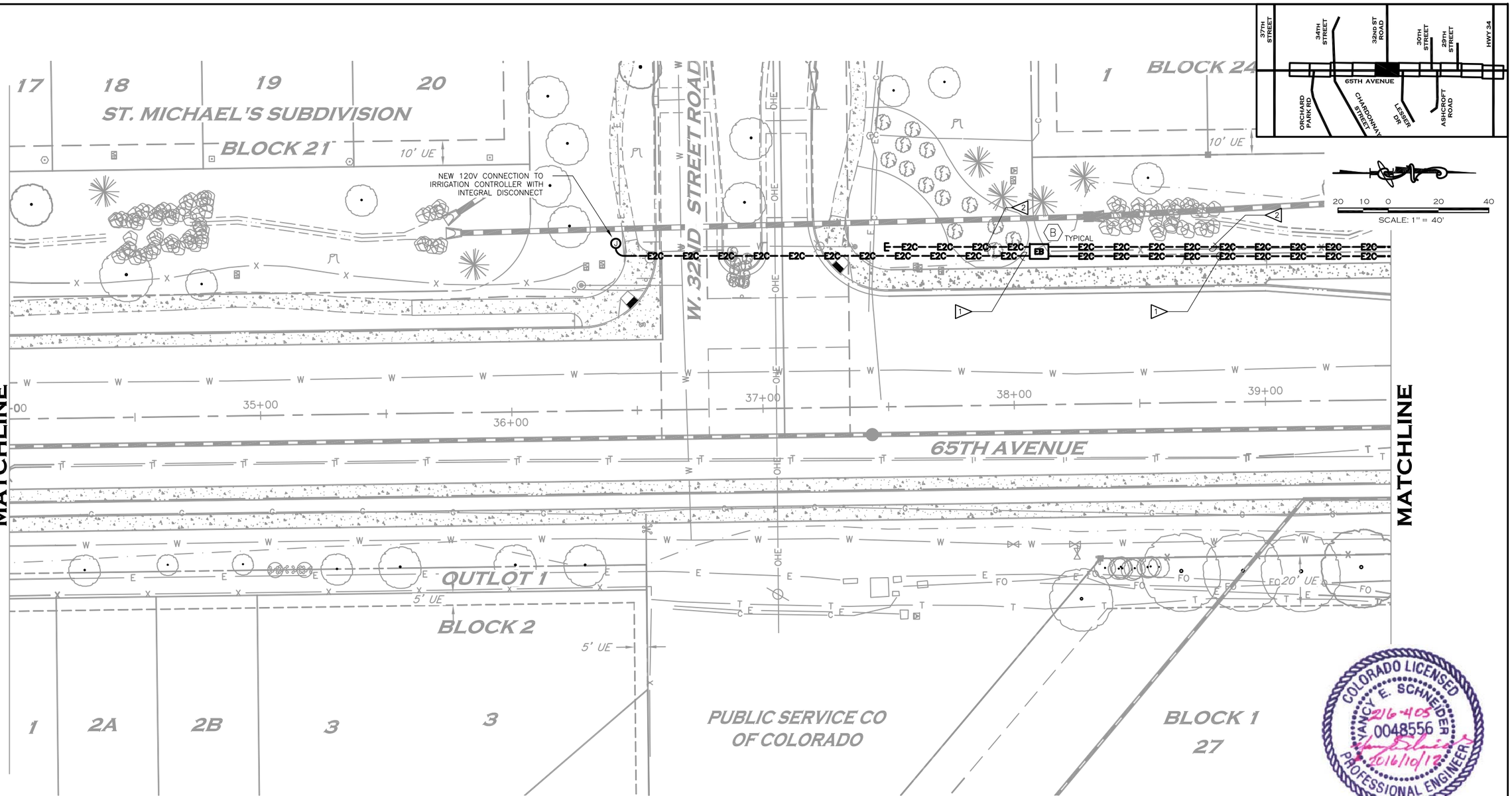
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ELECTRICAL PLAN
STA 34+00 TO STA 54+50

Designer: YS
Detailer: DA
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER E-1

(P:\200'S\216\405-INTERWEST CONSULTING GROUP-GREELEY 65TH AVE 29TH TO 37TH\ESC DRAWINGS\E1.0-E6.0.DWG)10/12/2016 1:03 PM



NOTES

1. NEW SL-1 CIRCUIT IN 2" PVC. SEE PANEL SCHEDULE FOR MORE INFORMATION.
2. NEW SL2-1 CIRCUIT 2" PVC SPARE CONDUIT FOR FUTURE SIGNAL COMMUNICATIONS. SEE PANEL SCHEDULE FOR MORE INFORMATION.

AWARDED SET FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED
NANCY E. SCHNEIDER
216-405
0048556
2016/10/12
PROFESSIONAL ENGINEER

ESC engineering
FORT COLLINS COLORADO
(970) 224-9100 esc@thinkESC.COM

DRAWN BY: DA CHK. BY: JEB
DESIGN BY: YS APP. BY: YS
PLOT DATE: 10/12/16

INTERWEST CONSULTING GROUP

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Creation Date: 06/10/15	Initials: JDL
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Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

Index of Revisions

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City of Greeley
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1001 9th Avenue
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10601 West 10th Street
Greeley, CO 80634
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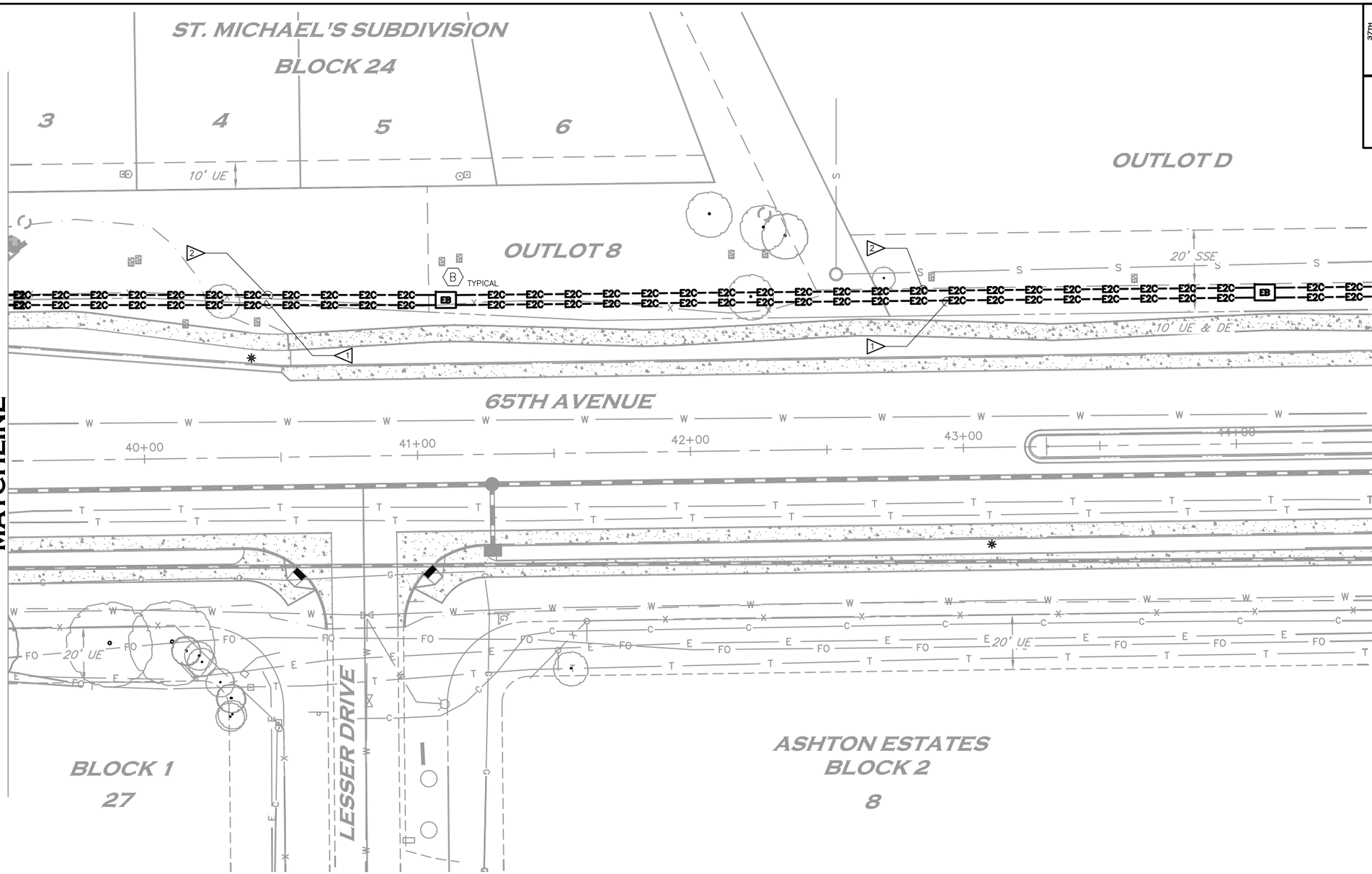
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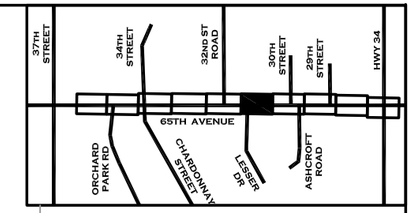
ELECTRICAL PLAN
STA 34+00 TO STA 39+50

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Detailer:	DA		
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Project No./Code
STU M570-046
20148
SHEET NUMBER E-2

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20 10 0 20 40

SCALE: 1" = 40'

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PLOT DATE: 10/12/16

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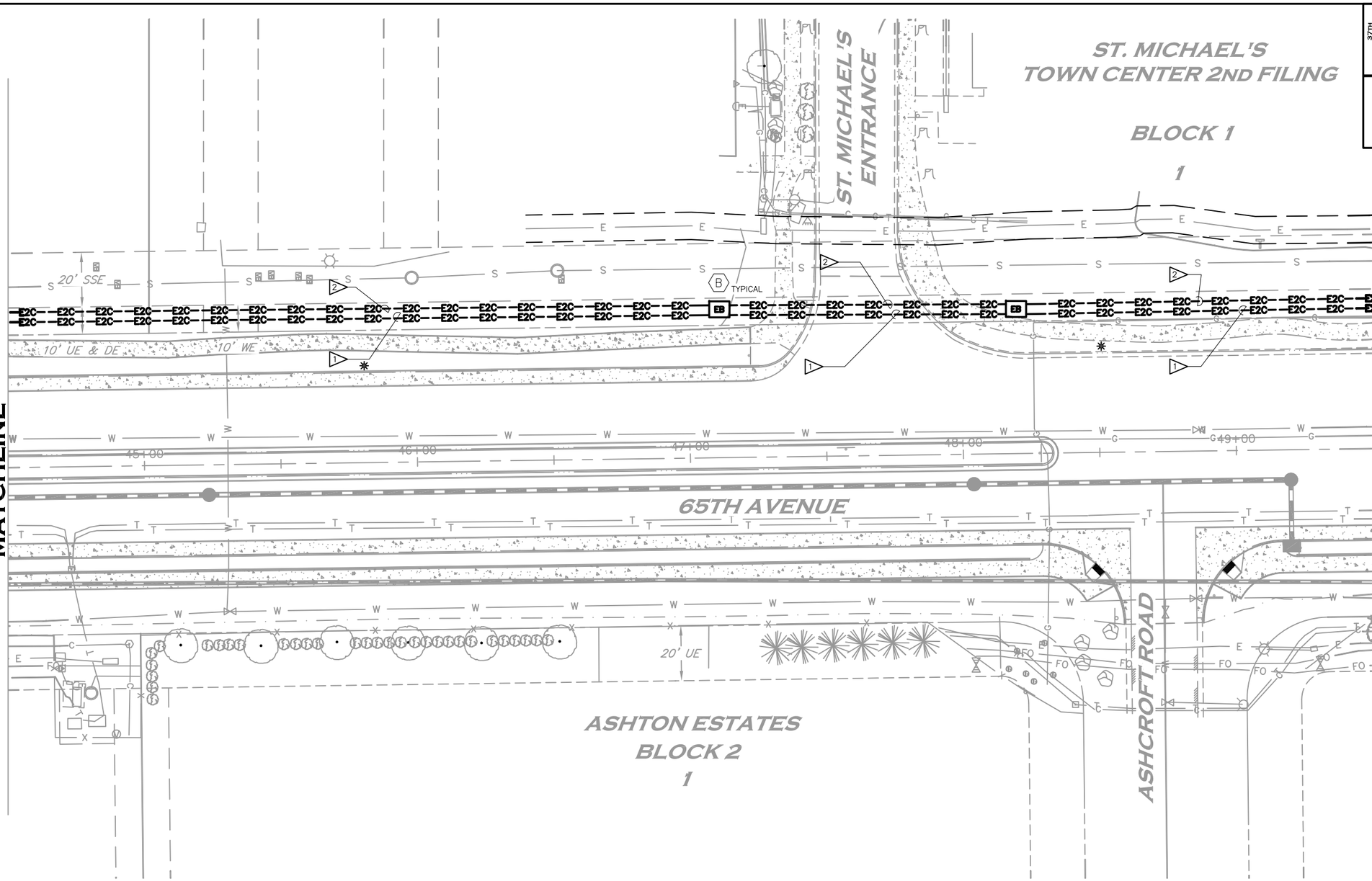
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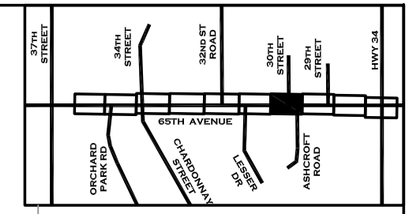
ELECTRICAL PLAN
STA 39+50 TO STA 44+50

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Detailer:	DA		
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Project No./Code
STU M570-046
20148
SHEET NUMBER E-3

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20 10 0 20 40

SCALE: 1" = 40'

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DESIGN BY: YS APP. BY: YS
PLOT DATE: 10/12/16

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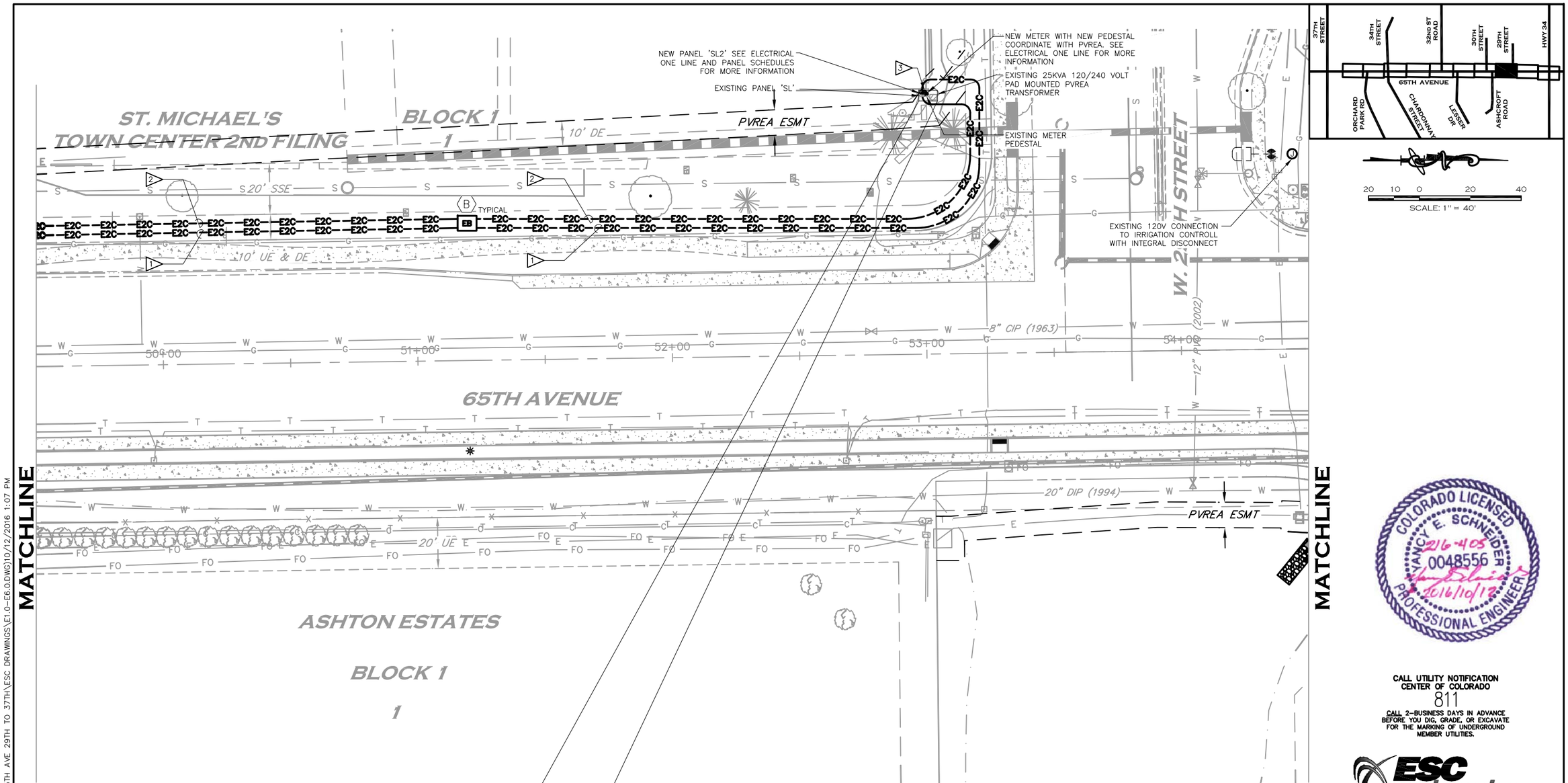
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ELECTRICAL PLAN
STA 44+50 TO STA 49+50

Designer:	YS		
Detailer:	DA		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570-046
20148
SHEET NUMBER E-4

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2. NEW SL2-1 CIRCUIT 2" PVC SPARE CONDUIT FOR FUTURE SIGNAL COMMUNICATIONS. SEE PANEL SCHEDULE FOR MORE INFORMATION.
3. NEW SL2-2 CIRCUIT 2" PVC CONDUIT FOR SIGNAL AT 29TH STREET. SEE PANEL SCHEDULE FOR MORE INFORMATION.

ENLARGED ELECTRICAL PLAN

5 2.5 0 5 10
SCALE: 1" = 10'

AWARDED SET FOR CONSTRUCTION

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NANCY E. SCHNEIDER
216-405
0048556
2016/10/12
PROFESSIONAL ENGINEER

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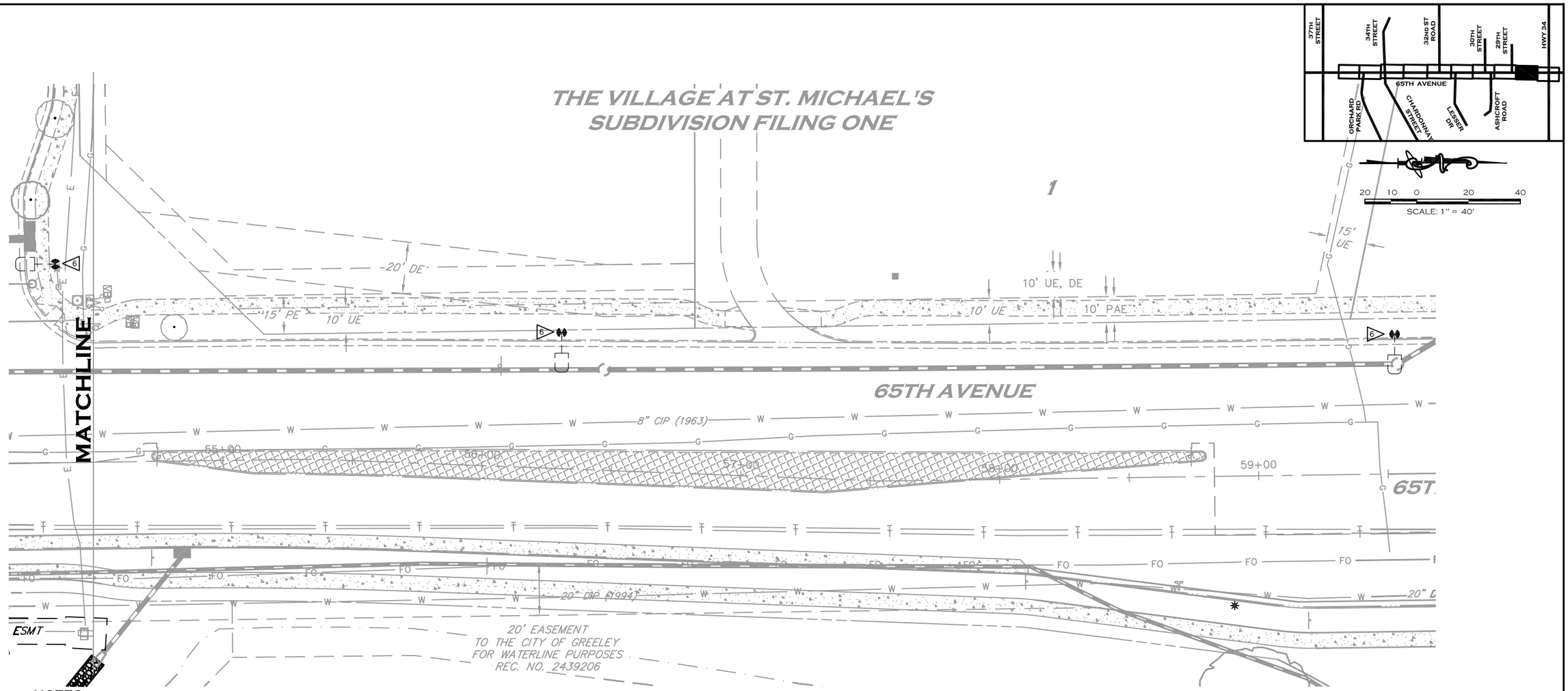
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ELECTRICAL PLAN
STA 49+50 TO STA 54+50

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Detailer: DA
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Project No./Code
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NOTES

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2. NEW SL2–1 CIRCUIT 2" PVC SPARE CONDUIT FOR FUTURE SIGNAL COMMUNICATIONS. SEE PANEL SCHEDULE FOR MORE INFORMATION.
3. NEW SL2–2 CIRCUIT 2" PVC CONDUIT FOR SIGNAL AT 29TH STREET. SEE PANEL SCHEDULE FOR MORE INFORMATION.
4. BACKGROUND MAY NOT MATCH THE EXISTING CONDITIONS.
5. DRAWING INCLUDED FOR REFERENCE OF LIGHTING FIXTURE LOCATION ONLY.
6. CONTRACTOR TO SALVAGE THE FIXTURES AND POLES AND RETURN THEM TO THE CITY OF GREELEY IN THE BEST CONDITION POSSIBLE FOR REUSE ELSEWHERE. CONDUCTORS TO BE COMPLETELY REMOVED FROM PANEL AND LIGHT POLE CAISSONS. CONDUITS FROM POWER PANEL TO LIGHT POLE CAISSONS TO REMAIN.
7. CONTRACTOR TO COORDINATE WITH CITY'S PROJECT MANAGER TO CONFIRM IF THE ANCHOR BOLTS ARE TO BE GROUND OFF FLUSH WITH CONCRETE OR NOT OR IF THE LIGHT POLE CAISSONS ARE TO BE REMOVED.

COLORADO LICENSED
YANCY E. SCHNEIDER
216405
0048556
10/16/12
PROFESSIONAL ENGINEER

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DRAWN BY: DA CHK. BY: JEB
DESIGN BY: YS APP. BY: YS
PLOT DATE: 10/12/16

INTERWEST CONSULTING GROUP

AWARDED SET FOR CONSTRUCTION

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Last Modification Date: 10/12/16	Initials: JDL
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Drawing File Name: E1.0–E6.0.dwg	
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FAX: 970–350–2198
Region 4 LHN

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Void:	

ELECTRICAL PLAN
STA 55+00 TO STA 59+00

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Detailer:	DA		
Sheet Subset:		Subset Sheet::	

Project No./Code
STU M570–046
20148
SHEET NUMBER E–6

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GENERAL NOTES

1. PLANTING DIMENSIONS FOR TREES IN SOD AREAS ARE MEASURED FROM BACK OF WALK TO CENTER OF TREE, TYP.
2. 'SOD' SHALL BE FULL SUN KENTUCKY BLUEGRASS (POA PRATENSIS), A MINIMUM OF THREE (3) CULTIVARS.
3. 'SOD*' SHALL BE BUFFALOGRASS (BUCHLOË DACTYLOIDES) SOD CONSISTING OF ONE OR MORE OF THE FOLLOWING CULTIVARS: LEGACY, PRESTIGE AND OR TURFFALO
4. DISTURBANCES AND DAMAGES OCCURRING OUTSIDE LIMIT OF WORK LINE, OR ITEMS INTENDED TO REMAIN THAT ARE DAMAGED SHALL BE RESTORED AND REPAIRED AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL STAKE TREE LOCATIONS FOR OWNER REVIEW AND APPROVAL PRIOR TO TREE INSTALLATION.
6. CONTRACTOR SHALL REPAIR AND REPLACE SOD AND/OR MULCH DAMAGED FOR IRRIGATION DEMOLITION AND IRRIGATION INSTALLATION.
7. FOR TREES PLANTED IN TREE GRATES, EXCAVATE AND REMOVE EXISTING SOIL 18" DEPTH x 3' x 6' AND IMPORT TOPSOIL PER SPECIFICATIONS. INCORPORATE SOIL AMENDMENT PER SPECIFICATIONS.
8. COMPANION CROP: ADD THE PRESCRIBED COMPANION CROP WITH THE NATIVE SEED MIXES TO BE PLANTED AT THE RATE LISTED. IF IN DOUBT, COORDINATE WITH PROJECT MANAGER.

PLANT LIST

Key	Botanical Name	Common Name	Size at Root Planting	Spacing	Quantity
DECIDUOUS CANOPY TREE					
CE OC	Celtis occidentalis	Common hackberry	2" Cal. BB	See Plan	6
GL SK	Gledistsia triacanthos inermis Skyline	Skyline Honeylocust	2" Cal. BB	See Plan	10
GY DI	Gymnocladus dioicus	Kentucky Coffeetree	2" Cal. BB	See Plan	5
QU MA	Quercus macrocarpa	Bur oak	2" Cal. BB	See Plan	2
QU RO	Quercus robur	English Oak	2" Cal. BB	See Plan	1
QU SK	Quercus robus 'Pyramich'	Skymaster English Oak	2" Cal. BB	See Plan	5
TI CO	Tilia cordata 'Greenspire'	Greenspire linden	2" Cal. BB	See Plan	2
ORNAMENTAL TREES					
AC TA	Acer tataricum 'Hot Wings'	Hot Wings Tatarian Maple	6' CLUMP BB	See Plan	3
CR AM	Crataegus ambigua	Russian Hawthorn	6' CLUMP BB	See Plan	4
CR CR	Crataegus crusgalli inermis	Thornless Cockspur Hawthorn	6' CLUMP BB	See Plan	10
CR SS	Crataegus crusgalli inermis	Thornless Cockspur Hawthorn (Single Stem)	2" CAL. BB	See Plan	5
MA RA	Malus 'Radiant'	Radiant Crabapple	2" CAL. BB	See Plan	13
MA RB	Malus 'Red Baron'	Red Barron Crabapple	2" CAL. BB	See Plan	10
MA TH	Malus 'Thunderchild'	Thunderchild Crabapple	2" CAL. BB	See Plan	5
PY CH	Pyrus Calleryana 'Chanticlear'	Chanticlear Pear	2" CAL. BB	See Plan	20
SY RE	Syringa reticulata	Japanese Tree Lilac (Single Stem)	2" CAL. BB	See Plan	15
SHRUBS					
CO SE	Cornus sericea	Redosier Dogwood	5 Gal. Cont.	See Plan	24
PI GL	Picea globosa	Globe Spruce	5 Gal. Cont.	See Plan	20
PR BE	Prunus besseyi	Western Sandcherry	5 Gal. Cont.	See Plan	10
SY ME	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	5 Gal. Cont.	See Plan	10

SEED LIST

SLOPE MIX

Used on all slopes and berms.

SPECIES	POUNDS PER ACRE - PURE LIVE SEED
Sideoats grama	2.0
Blue grama	2.0
Little Bluestem	2.0
Sand dropseed	0.06

LOW GROW MIX

Use a minimum 8' wide on sides of pathways. Use at property lines abutting residential properties. Used in open areas where short grasses are desired.

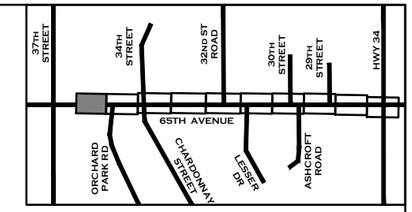
SPECIES	POUNDS PER ACRE - PURE LIVE SEED
Buffalograss	8.0
Blue grama	6.5

LEGEND

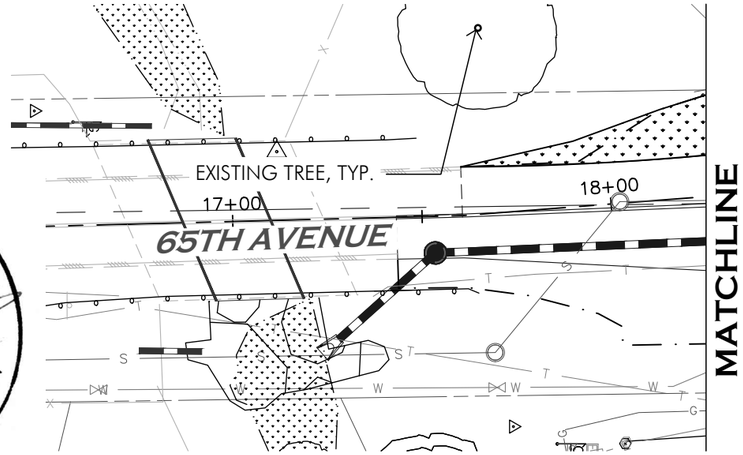
DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS): 24570 SQ. FT.
SOD* (BUFFALO GRASS): 44741 SQ. FT.
NATIVE SEEDING: 48196 SQ. FT.
POND SEEDING: 6563 SQ. FT.
SHRUB BED / ORGANIC MULCH: 5991 SQ. FT.



20 10 0 20 40
SCALE: 1" = 40'



JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
10-12-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

COMPANION CROP

Add the appropriate companion crop to the native seed mixes to be planted.

SPECIES	POUNDS PER ACRE - PURE LIVE SEED
Spring Planting:	
Oats	4.0
Fall Planting:	
Winter Wheat	2.0

POND MIX

Used in and around detention/retention ponds, and in areas that are designed to hold water, but are not necessarily wet the majority of the time.

SPECIES	POUNDS PER ACRE - PURE LIVE SEED
Little Bluestem	3.0
Yellow Indian Grass	2.0
Switchgrass	1.0
Blue grama	0.6
Sideoats grama	4.0
Prairie Sandreed	1.5
Western Wheatgrass	6.5

AWARDED SET
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1603 Oakridge Drive
Fort Collins, Colorado 80525
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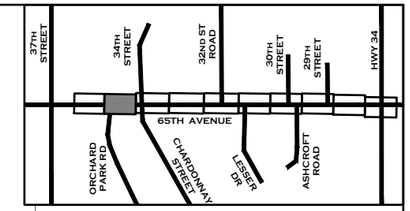
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No Revisions:	STA 13+50 TO STA 18+25	STU M570-046
Revised:	Designer: J. MESSAROS	20148
Void:	Detailer: J. MESSAROS	
	Sheet Subset: Subset Sheet::	SHEET NUMBER L-1

LEGEND

DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)
SOD* (BUFFALO GRASS)
NATIVE SEEDING
POND SEEDING
SHRUB BED / ORGANIC MULCH



20 10 0 20 40
SCALE: 1" = 40'

10' PVREA ESMT
30' SSE
10' UE
1 QU MA
1 QU SK
SOD*
65TH AVENUE
MATCHLINE
MATCHLINE
19+00
20+00
21+00
22+00
23+00
SOD*
SOD
3.00 ft
9.76 ft
1.14 ft
EXISTING TREE, TYP.
ORCHARD PARK ROAD

JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
10-12-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

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LANDSCAPE PLAN
STA 18+25 TO STA 23+25

Designer: J. MESSAROS
Detailer: J. MESSAROS
Sheet Subset:
Subset Sheet::

Project No./Code
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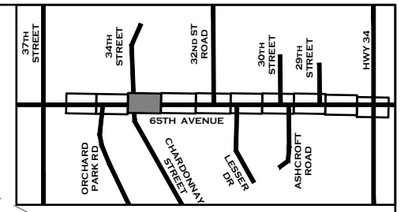
LEGEND

DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)
SOD* (BUFFALO GRASS)
NATIVE SEEDING
POND SEEDING
SHRUB BED / ORGANIC MULCH

20 10 0 20 40
SCALE: 1" = 40'



REPAIR EXISTING SHRUB BED AS NEEDED, MATCH EXITING MULCH TYPE.

W. 34TH STREET ROAD

65TH AVENUE

MATCHLINE

MATCHLINE

24+00 25+00 26+00 27+00 28+00

1 GY DI
1 PY CH
1 MA RA
3 PI GL
5 SY RE

SOD*
SOD

EXISTING TREE, TYP.
EXISTING ROCK/BOULDER, TYP.
EXISTING SHRUB, TYP.

CHARDONNAY STREET ONLY

10' UE
5' UE

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Fort Collins, Colorado 80525
voice: 970.223.7577
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FOR CONSTRUCTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

Computer File Information		Index of Revisions		
Creation Date: 05/26/16	Initials: JSM			
Last Modification Date: 10/13/16	Initials: JSM			
Full Path:				
Drawing File Name: Greeley 65th Ave AWARDED SET (10-12-16).dwg				
Acad Ver. 2016 Scale: 1"=40'	Units: ENGLISH			

City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

LANDSCAPE PLAN
STA 23+25 TO STA 28+50

Designer: J. MESSAROS
Detailer: J. MESSAROS
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER L-3

LEGEND

DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)

SOD* (BUFFALO GRASS)

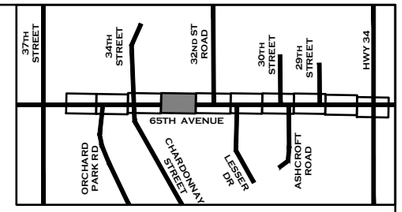
NATIVE SEEDING

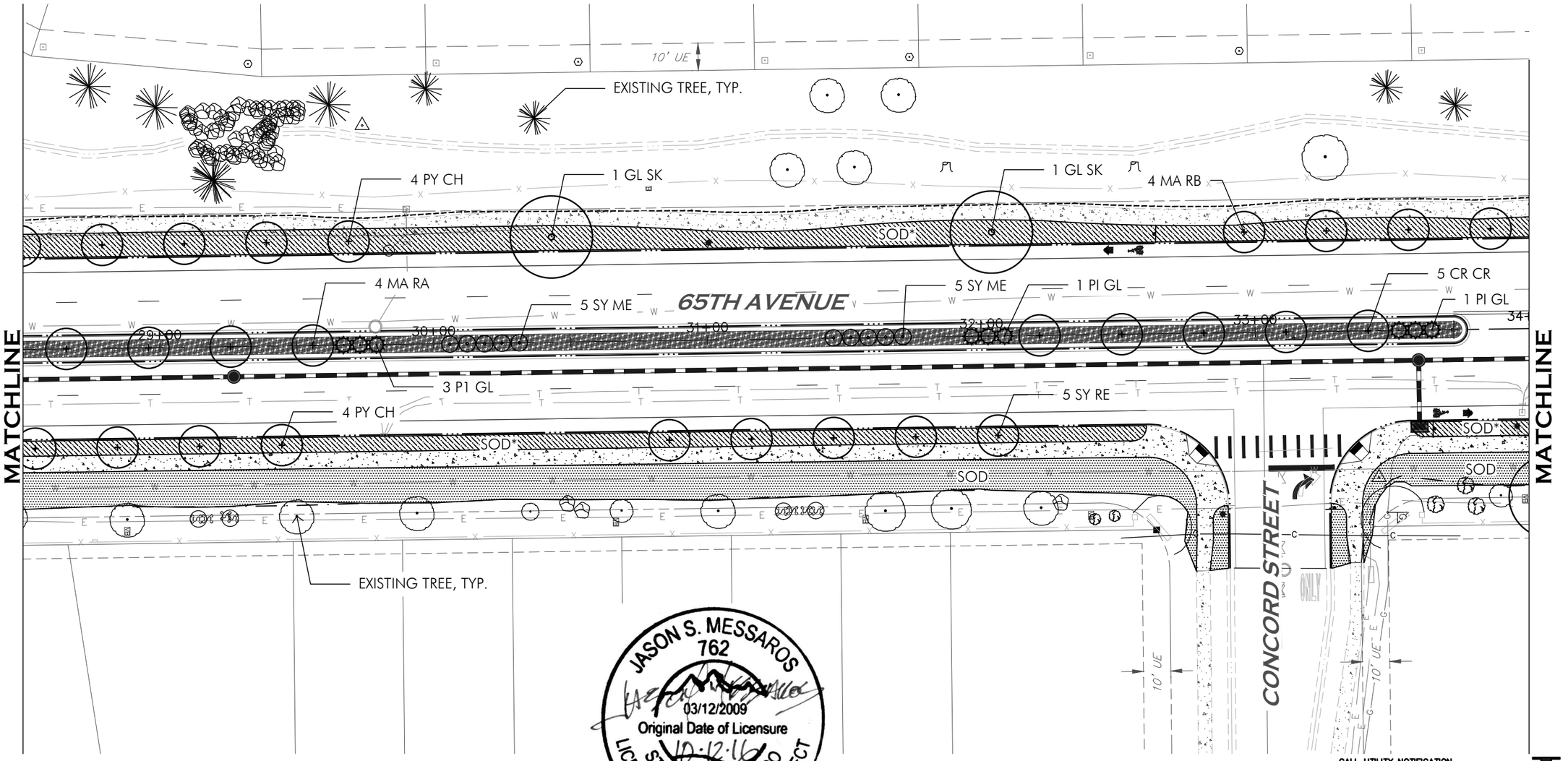
POND SEEDING

SHRUB BED / ORGANIC MULCH

20 10 0 20 40

SCALE: 1" = 40'





JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
10-12-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

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Region 4 LHN

As Constructed

No Revisions:

Revised:

Void:

LANDSCAPE PLAN
STA 28+50 TO STA 34+00

Designer: J. MESSAROS

Detailer: J. MESSAROS

Sheet Subset:

Subset Sheet::

Project No./Code
STU M570-046
20148

SHEET NUMBER L-4

JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
10-12-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

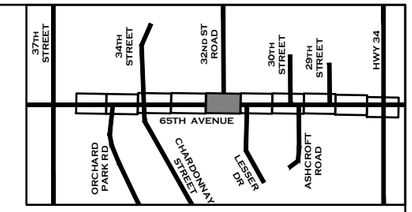
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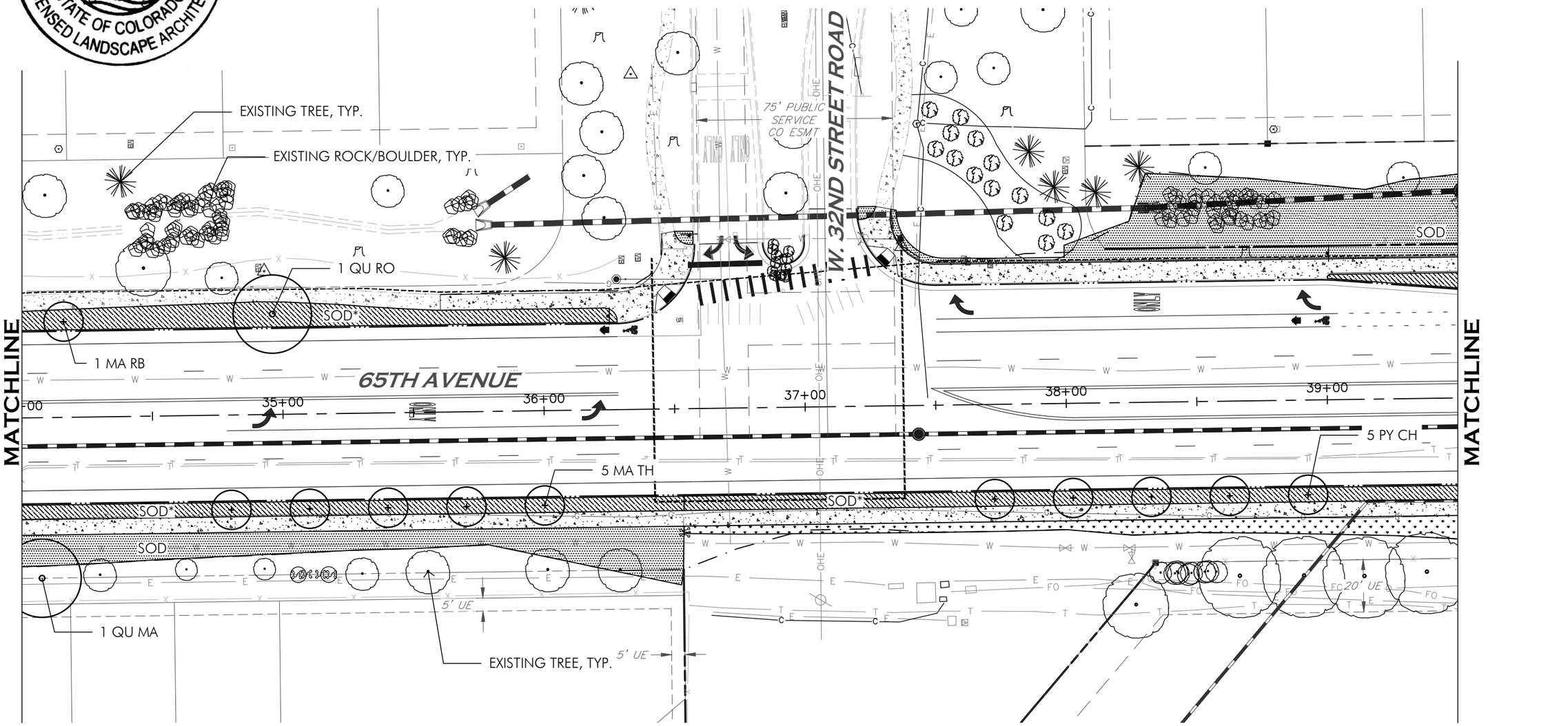
DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)
SOD* (BUFFALO GRASS)
NATIVE SEEDING
POND SEEDING
SHRUB BED / ORGANIC MULCH

20 10 0 20 40
SCALE: 1" = 40'





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Region 4 LHN

As Constructed	LANDSCAPE PLAN	Project No./Code
No Revisions:	STA 34+00 TO STA 39+50	STU M570-046
Revised:	Designer: J. MESSAROS	20148
Void:	Detailer: J. MESSAROS	SHEET NUMBER L-5
	Sheet Subset:	Subset Sheet::

LEGEND

DECIDUOUS TREES

SHRUBS

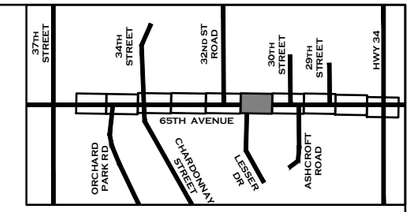
SOD (BLUEGRASS)

SOD* (BUFFALO GRASS)

NATIVE SEEDING

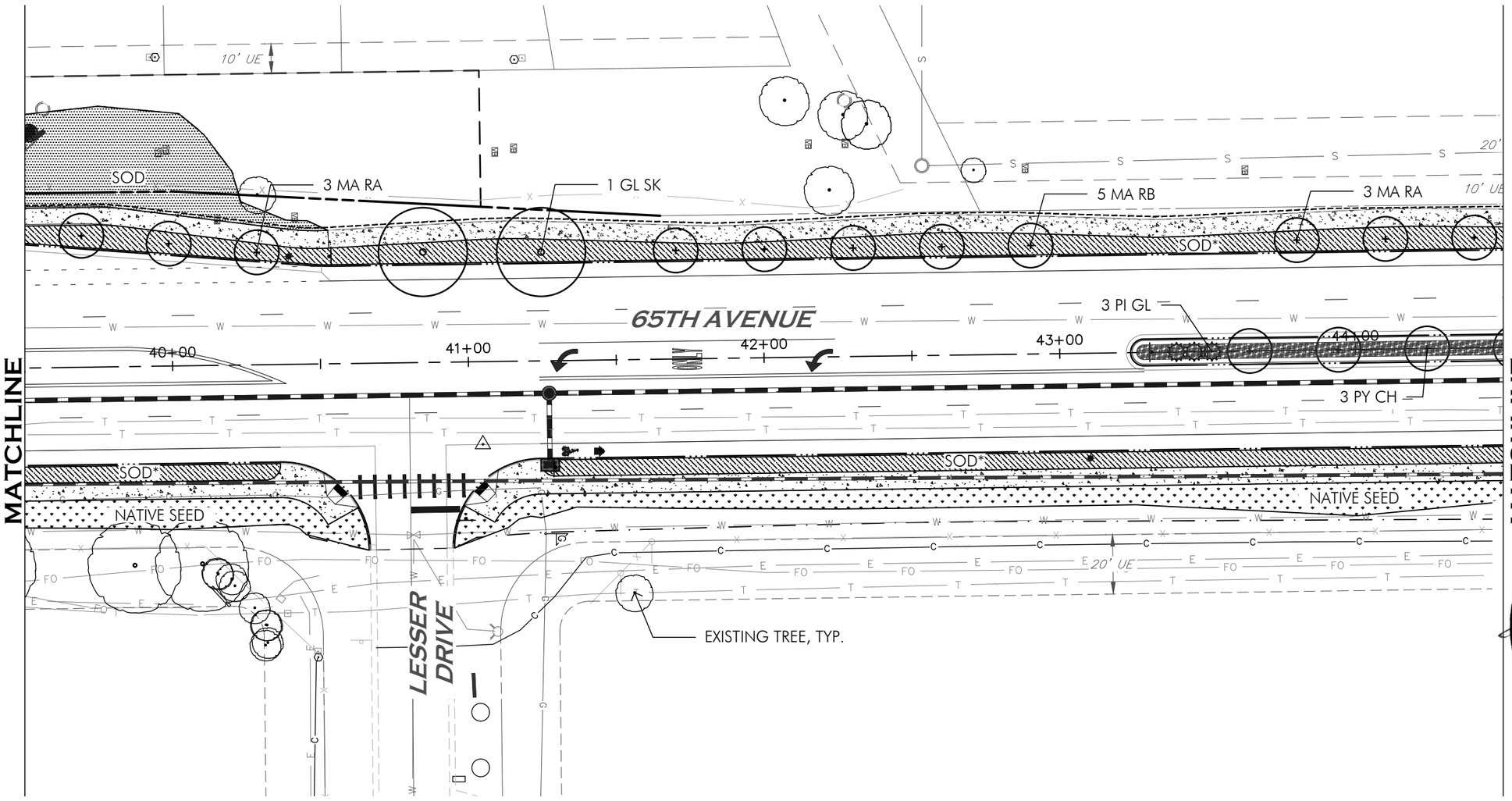
POND SEEDING

SHRUB BED / ORGANIC MULCH



20 10 0 20 40

SCALE: 1" = 40'



JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
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Region 4 LHN

As Constructed

No Revisions:

Revised:

Void:

LANDSCAPE PLAN
STA 39+50 TO STA 44+50

Designer: J. MESSAROS

Detailer: J. MESSAROS

Sheet Subset:

Subset Sheet::

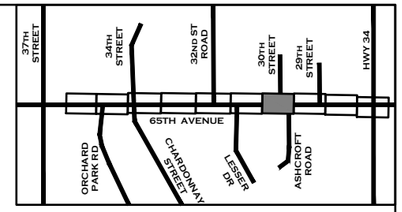
Project No./Code
STU M570-046
20148
SHEET NUMBER L-6

LEGEND

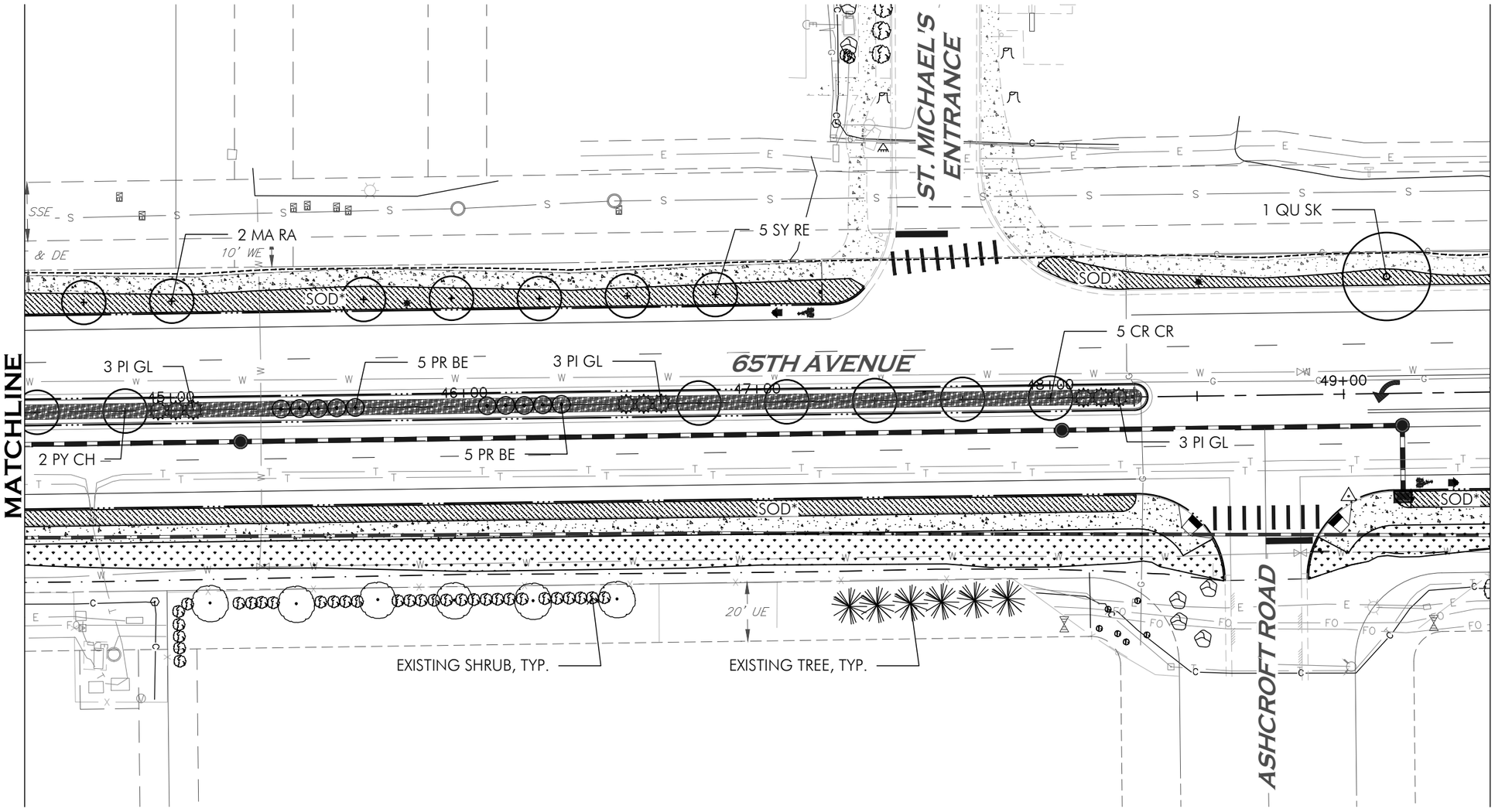
DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)
SOD* (BUFFALO GRASS)
NATIVE SEEDING
POND SEEDING
SHRUB BED / ORGANIC MULCH



20 10 0 20 40
SCALE: 1" = 40'



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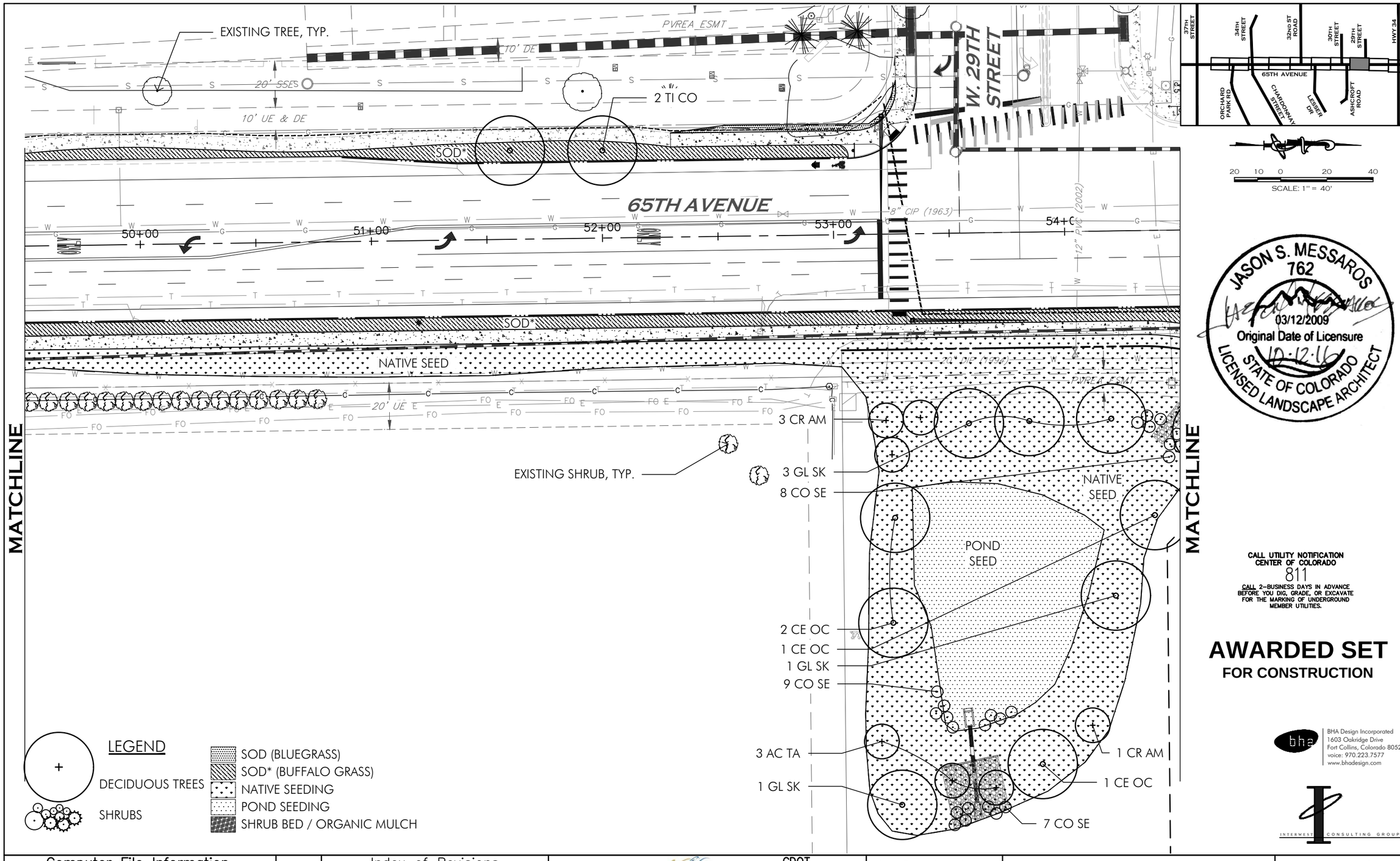
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Greeley, CO 80634
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Region 4 LHN

As Constructed
No Revisions:
Revised:
Void:

LANDSCAPE PLAN
STA 44+50 TO STA 49+50

Designer: J. MESSAROS
Detailer: J. MESSAROS
Sheet Subset:
Subset Sheet::

Project No./Code
STU M570-046
20148
SHEET NUMBER L-7



LEGEND

DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)

SOD* (BUFFALO GRASS)

NATIVE SEEDING

POND SEEDING

SHRUB BED / ORGANIC MULCH

JASON S. MESSAROS
762
03/12/2009
Original Date of Licensure
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Index of Revisions		

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FAX: 970-350-2198
Region 4 LHN

As Constructed	
No Revisions:	
Revised:	
Void:	

LANDSCAPE PLAN
STA 49+50 TO STA 54+50

Designer:	J. MESSAROS		
Detailer:	J. MESSAROS		
Sheet Subset:		Subset Sheet::	

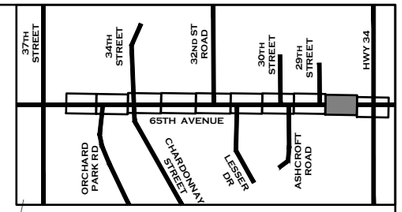
Project No./Code
STU M570-046
20148
SHEET NUMBER L-8

LEGEND

DECIDUOUS TREES

SHRUBS

SOD (BLUEGRASS)
SOD* (BUFFALO GRASS)
NATIVE SEEDING
POND SEEDING
SHRUB BED / ORGANIC MULCH



20 10 0 20 40
SCALE: 1" = 40'

MATCHLINE

20' DE
15' PAE
10' UE
10' UE
10' UE
10' PAE

65TH AVENUE

8" CIP (1963)

55+00 56+00 57+00 58+00 59+00

8" CIP (1994)

20' EASEMENT TO THE CITY OF GREELEY FOR WATERLINE PURPOSES REC. NO. 2439206

1 GY DI
2 CE OC
5 CR SS
2 GY DI
EXISTING TREE, TYP.
NATIVE SEED
SOD*

MATCHLINE

JASON S. MESSAROS
762
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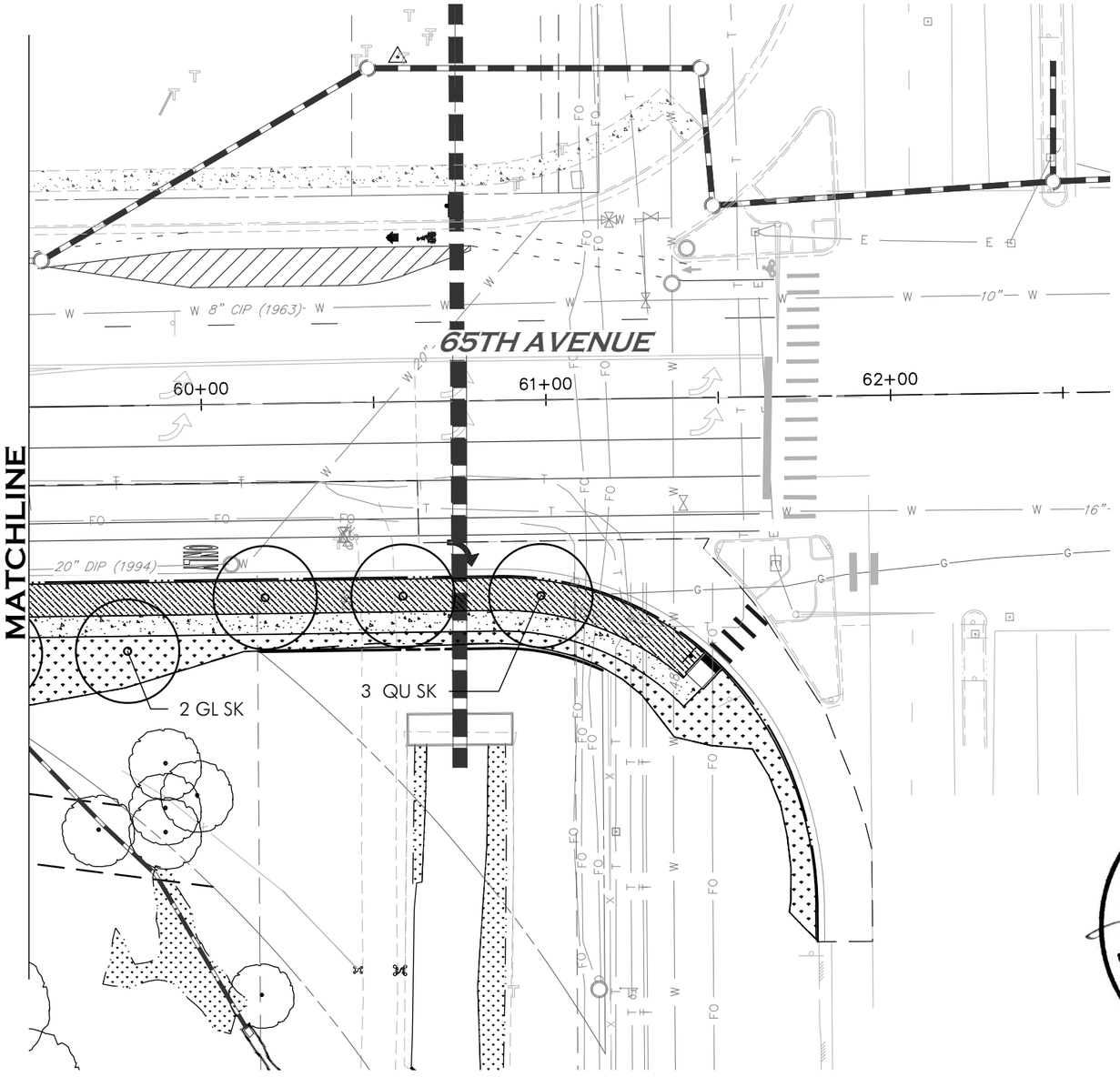
As Constructed	LANDSCAPE PLAN	Project No./Code
No Revisions:	STA 54+50 TO STA 59+50	STU M570-046
Revised:	Designer: J. MESSAROS	20148
Void:	Detailer: J. MESSAROS	SHEET NUMBER L-9
	Sheet Subset: Subset Sheet::	

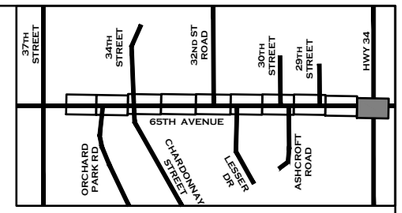
LEGEND

DECIDUOUS TREES

SHRUBS

- SOD (BLUEGRASS)
- SOD* (BUFFALO GRASS)
- NATIVE SEEDING
- POND SEEDING
- SHRUB BED / ORGANIC MULCH



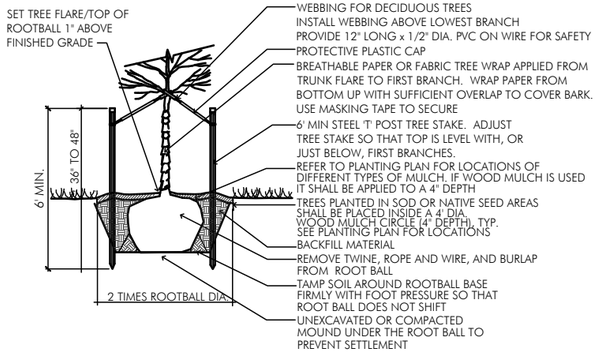


20 10 0 20 40

SCALE: 1" = 40'

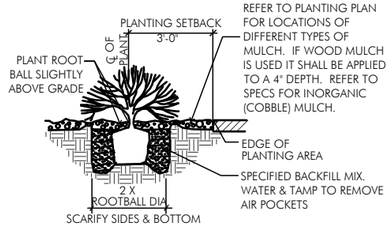
GENERAL TREE PLANTING NOTES:

1. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. MARK NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE. TREES WHOSE NORTH ORIENTATION IS NOT CHANGED FROM THE NURSERY DO NOT NEED TO BE WRAPPED, EXCEPT TREES WITH VERY THIN BARK.
3. EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
4. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.
5. PLACE SPECIFIED MULCH IN TREE PLANTING RINGS TO THE DEPTH SHOWN, UNLESS INDICATED OTHERWISE.
6. STAKE DECIDUOUS AND CONIFEROUS TREES LOCATED IN PLANTING AREA.
7. TREE STAKES SHALL BE DRIVEN OUTSIDE OF ROOT BALL.
8. SEE TREE GRATE DETAIL.
9. FOR TREES PLANTED IN TREE GRATES, EXCAVATE AND REMOVE EXISTING SOIL 18" DEPTH x 3' x 6' AND IMPORT TOPSOIL PER SPECIFICATIONS. INCORPORATE SOIL AMENDMENT PER SPECIFICATIONS.
10. ONCE TREES HAVE BEEN PLANTED, CONTRACTOR SHALL SCHEDULE FIELD WALK WITH CITY OF GREELEY FORESTRY TO CONDUCT 'TREE PRUNING' WALK IN WHICH GREELEY FORESTRY DIRECTS CONTRACTOR WHICH TREES TO PRUNE FOR CLEARANCE ISSUES. THE CONTRACTOR PERFORMING PRUNING FOR CLEARANCES SHALL BE A GREELEY LICENSED ARBORIST.



1 TREE PLANTING

SCALE: NTS



2 SHRUB PLANTING

SCALE: NTS

JASON S. MESSAROS
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No Revisions:	STA 59+50 TO STA 63+00	STU M570-046
Revised:	Designer: J. MESSAROS	20148
Void:	Detailer: J. MESSAROS	SHEET NUMBER L-10
	Sheet Subset:	Subset Sheet::

IRRIGATION LEGEND

SLEEVES: CLASS 200 PVC

MAINLINE PIPE: CLASS 200 PVC
2 1/2–INCH SIZE UNLESS OTHERWISE INDICATED

LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1–INCH UNLESS OTHERWISE INDICATED

LATERAL PIPE TO TREE/SHRUB EMITTERS IN GRASS: 80 PSI RATED
POLYETHYLENE (3/4–INCH SIZE, ROUTING IS DIAGRAMMATIC)

LATERAL PIPE HEADER TO INLINE DRIP: CLASS 200 PVC
1–INCH UNLESS OTHERWISE NOTED

INLINE DRIP TUBING: RAINBIRD XFD–06–12

UNCONNECTED PIPE CROSSING

POINT–OF–CONNECTION ASSEMBLY

M WATER METER AND CURB STOP ASSEMBLY (SEE CIVIL PLAN)

BACKFLOW PREVENTION ASSEMBLY: FEBCO 825–YA

MASTER VALVE ASSEMBLY: 1–INCH BERMAD 410 SERIES, NORMALLY OPEN

F FLOW SENSOR ASSEMBLY: RAINBIRD FS100P

ISOLATION GATE VALVE ASSEMBLY: MATCO 514

QUICK COUPLING VALVE ASSEMBLY: RAINBIRD 5LRC

REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS
RAINBIRD PEB (SIZED PER PLAN)

REMOTE CONTROL DRIP VALVE ASSEMBLY: RAINBIRD XCZ–PRB–100–COM

EXISTING IRRIGATION EQUIPMENT

FLUSH CAP ASSEMBLY PER THE CITY OF GREELEY STANDARDS

POP–UP SPRAY SPRINKLER: RAIN BIRD 1806–SAM–PRS W/8 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 8 FEET
FLOW (GPM): Q–0.26 H–0.52 F–1.05

POP–UP SPRAY SPRINKLER: RAIN BIRD 1806–SAM–PRS W/10 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 10 FEET
FLOW (GPM): Q–0.39 H–0.79 F–1.58

POP–UP SPRAY SPRINKLER: RAIN BIRD 1806–SAM–PRS W/12 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 12 FEET
FLOW (GPM): Q–0.65 H–1.30 F–2.60

POP–UP SPRAY SPRINKLER: RAIN BIRD 1806–SAM–PRS W/15 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 15 FEET
FLOW (GPM): Q–0.92 H–1.85 F–3.70

POP–UP SPRAY SPRINKLER: RAIN BIRD 1806–SAM–PRS W/15SS
SERIES NOZZLE PRESSURE: 30 PSI PATTERN: 4 X 15 FEET
FLOW (GPM): EST–0.61 SST–1.21

B Y A POP–UP ROTATING SPRAY SPRINKLER: HUNTER PRS40–CV, W/MP3000
SERIES NOZZLE ADJUSTABLE RADIUS: 20 TO 30 FEET
PRESSURE: 40PSI FLOW (GPM): B–0.86 Y–1.82 A–3.64

A1 — INDICATES CONTROLLER AND STATION NUMBER
14 — INDICATES LATERAL DISCHARGE (GPM)
1" — INDICATES VALVE SIZE (INCHES)
Turf — INDICATES LANDSCAPE APPLICATION

A IRRIGATION CONTROLLER UNIT WITH WEATHERSTATION
CONTROLLER A: RAIN BIRD MAXICOM 40 STATION MODEL– DBCMAXICGP–14W/CCU28: 32 NEW STATIONS USED
CONTROLLER B: RAIN BIRD MAXICOM 40 STATION MODEL– DBCMAXICGP–13 REV A : 36 STATIONS USED

CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE

HINES INC
SITE WATER MANAGEMENT SERVICES
303 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800 E Fax:
866.215.8974 Web:
www.hinesinc.com

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CALL 2–BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

INTERWEST CONSULTING GROUP

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IRRIGATION LEGEND & NOTES

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Project No./Code
STU M570–046
20148
SHEET NUMBER IR1.00

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 90 PSI (PER CITY ENGINEER), AT A MAXIMUM DISCHARGE OF 25 GPM AT THE 1–INCH IRRIGATION POINT–OF–CONNECTION (POC) AND 65 PSI, AT A MAXIMUM DISCHARGE OF 25 GPM AT THE EXISTING 1–INCH IRRIGATION POINT–OF–CONNECTION. TAP, METER, BACKFLOW, AND MASTER VALVE SHALL ALL BE THE SAME SIZE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.

2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.

3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:

   A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.

   B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.

   C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEE FITTINGS IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.

6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:

   A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.

   B. TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.

7. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.

8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.

9. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.

10. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.

11. INSTALL TWO (2) #14 AWG CONTROL WIRES AND ONE (1) #12 AWG COMMON WIRE FROM CONTROLLER LOCATION TO EACH DEAD–END OF MAINLINE FOR USE AS SPARES INCASE OF CONTROL WIRE FAILURE. COIL 3 FEET OF WIRE IN VALVE BOX.

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IRRIGATION LEGEND & NOTES

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CONSTRUCTION NOTES

1. THE IRRIGATION SYSTEM POINT–OF–CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL STOP AND WASTE VALVE BEFORE BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE. CONTACT CITY OF GREELEY FOR APPROVED MAKE AND MODEL FOR STOP AND WASTE VALVE.

2. PEDESTAL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

3. IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY ONLY. INSTALL IRRIGATION COMPONENTS WITHIN LANDSCAPED AREA.

4. IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY ONLY. INSTALL IRRIGATION MAINLINE 2–FEET OFF OF CURB WITHIN LANDSCAPED AREA.

5. CONTRACTOR SHALL FIELD LOCATE 8–INCH ROUND VALVE BOX AT THIS APPROXIMATE LOCATION AND CONNECT TO EXISTING 2–INCH MAINLINE SUBOUT AND CONTROL WIRE BUNDLE. MAKE CONNECTION TO AND EXTEND TWENTY (24) CONTROL WIRES FROM THIS LOCATION TO NEW CONTROL VALVES AS NECESSARY.

6. CONTRACTOR SHALL INSTALL TWENTY (24) NEW CONTROL WIRES FROM CONTROLLER TO NEW CONTROL VALVES AS NECESSARY. CONTRACTOR SHALL HAND DIG AROUND CONTROLLER "A" TO AVOID DAMAGES TO EXISTING CLOCKWIRES/COMMUNICATION CABLES/GROUNDING EQUIPMENT. CONACT LINDA RIGLI WITH PARKS FOR LOACTES FOR THIS AREA.

7. CONTRACTOR SHALL CONTACT DBC TECHNICAL SERVICES FOR DBC PACKAGED 40 STATION CONTROLLER, LINK WITH FLOW MONITOR, RAIN GAUGE, AND DBC SURGE PROTECTION AND TRANSIENT BARRIER PACKAGE. DBC SITE VERIFICATION SERVICE – MEG GROUND TO 10 OHMS OR LESS, PROGRAM FLOW MONITOR AND CONTROLLER INSPECTION. DBC RADIO SITE SURVEY CONFIRM RADIO COMMUNICATION BETWEEN CCU AND SATELLITE. (CONTACT TRACY SHIELDS 970–302–9762)

8. CONTRACTOR SHALL INSTALL DBCMAXICGP–14 REV A DBC PACKAGED SYSTEM FOR MAXICOM 40 STATION LINK STELLITE AND CCU28 STAINLESS STEEL TOP ENTRY PEDESTAL, WITH DUAL FLOW AND DBC SURGE AND TRANIENT BARRIER PACKAGE. DBC WILL ASSEMBLE AND PRE–SIRE AN ETIRELY NEW BACK PANEL AND WILL USE THE EXISTING CCU28, CAMLINK, AND TRC RECEIVER CARD. USE BRAND NEW 40 STATION LINK SATELLITE, DUAL FLOW MONITOR. EXISTING SATELLITE AND CCU WILL REMAIN IN PLACE AND FUNCTIONING UNTIL THE NEW BACK PANEL WITH NEW COMPONENTS IS FIELD INSTALLED. ALL LEFT OVER COMPONENTS WILL BE TURNED OVER TO THE CITY OF GREELEY PARKS. CONNECT EXISTING CONTROL WIRES TO NEW CONTROLLER. DBC SITE VERIFICATION SERVICES MEG GROUND TO 10 OHMS OR LESS, PROGRAM FLOW MONITOR AND CONTROLLER INSPECTION., DBC RADIO SITE SURVEY CONFIRM RADIO COMMUNICATION BETWEEN CCU AND SATELLITE. INCLUDES ALL PARTS AND LABOR FOR NEW CONTROLLER. (CONTACT TRACY SHIELDS 970–302–9762)

9. SPRAY HEADS SHOWN AT 1" = 30' SCALE FOR CLARITY ONLY.

10. CONTRACTOR SHALL FIELD LOCATE AND ADJUST EXISTING SPRAY HEADS TO BACK OF NEW SIDEWALK ALIGNMENT.

11. CONTRACTOR SHALL FIELD LOCATE EXISTING ROTORS IN THIS AREA, CUT AN CAP LATERAL PIPE AND RELOCATE ROTOR TO BACK OF NEW SIDEWALK ALIGNMENT, MAKING CONNECTION TO EXISTING ROTOR ZONE.

12. CONTRACTOR SHALL FIELD LOCATE AND ADJUST EXISTING DRIP PIPE AS NECESSARY IN THIS APPROXIMATE LOCATION.

13. CONTRACTOR SHALL REFER TO CALLED OUT PIPE SIZING FOR THIS VALVE BECAUSE IT IS ATYPICAL.

14. CONTRACTOR SHALL FIELD LOCATE EXISTING SPRINKLERS, MAINLINE AND ASSOCIATED CONTROL VALVES SERVING THIS PRIVATELY OWNED AREA. CONTACT IRRIGATION SYSTEM MANAGER TO DETERMINE EXACT LOCATION OF ALL EQUIPMENT SERVING THIS AREA. REMOVE EXISTING SPRINKLERS AND TURN OVER TO IRRIGATION SYSTEM MANAGER. INSTALL NEW MPROTATOR SPRINKLERS IN THIS ENLARGED TURF AREA AS SHOWN. LATERAL SPRINKLERS USING PIPE SIZING CHART INCLUDED IN THIS PLAN SET AND MAKE LATERAL CONNECTIONS TO EXISTING CONTROL VALVES AS NECESSARY. REFER TO CONTROL VALVE MANUFACTURER SIZING CHART FOR THE MAXIMUM FLOW RATE THROUGH THE EXISTING CONTROL VALVES BASED ON SIZE.

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IRRIGATION LEGEND & NOTES

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DESIGNER NOTES

MAXIMUM DOWN TIME OF EXISTING CONTROLLER A IS 48 HOURS (MAY–SEPTEMBER). CONTRACTOR ASSUMES SUBSEQUENT DAMAGES TO EXISTING LANDSCAPING CURRENTLY BEING WATERED FROM CONTROLLER A, IF CONTROLLER IS DOWN FOR A PERIOD OF TIME LONGER THAN 48–HOURS. CONTACT TRACY SHIELD (970–302–9762) WITH DBC FOR BUILDING AND INSTALLING THE NECESSARY COMPONENTS FOR UPGRADING CONTROLLER "A" AT PROJECT START.

IRRIGATION PIPE SCHEDULE

CLASS 200 PVC PIPE

SIZE	FLOW (GPM)
1/2"	0–5
3/4"	6–10
1"	11–15
1–1/4"	16–25
1–1/2"	26–35
2"	36–55
2–1/2"	56–80
3"	81–110
4"	111–200

IF THERE IS A DISCREPANCY BETWEEN PIPE SIZES SHOWN ON THE DRAWINGS AND THIS PIPE SCHEDULE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE IRRIGATION DESIGNER FOR CLARIFICATION.

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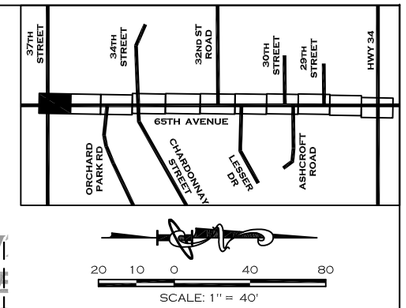
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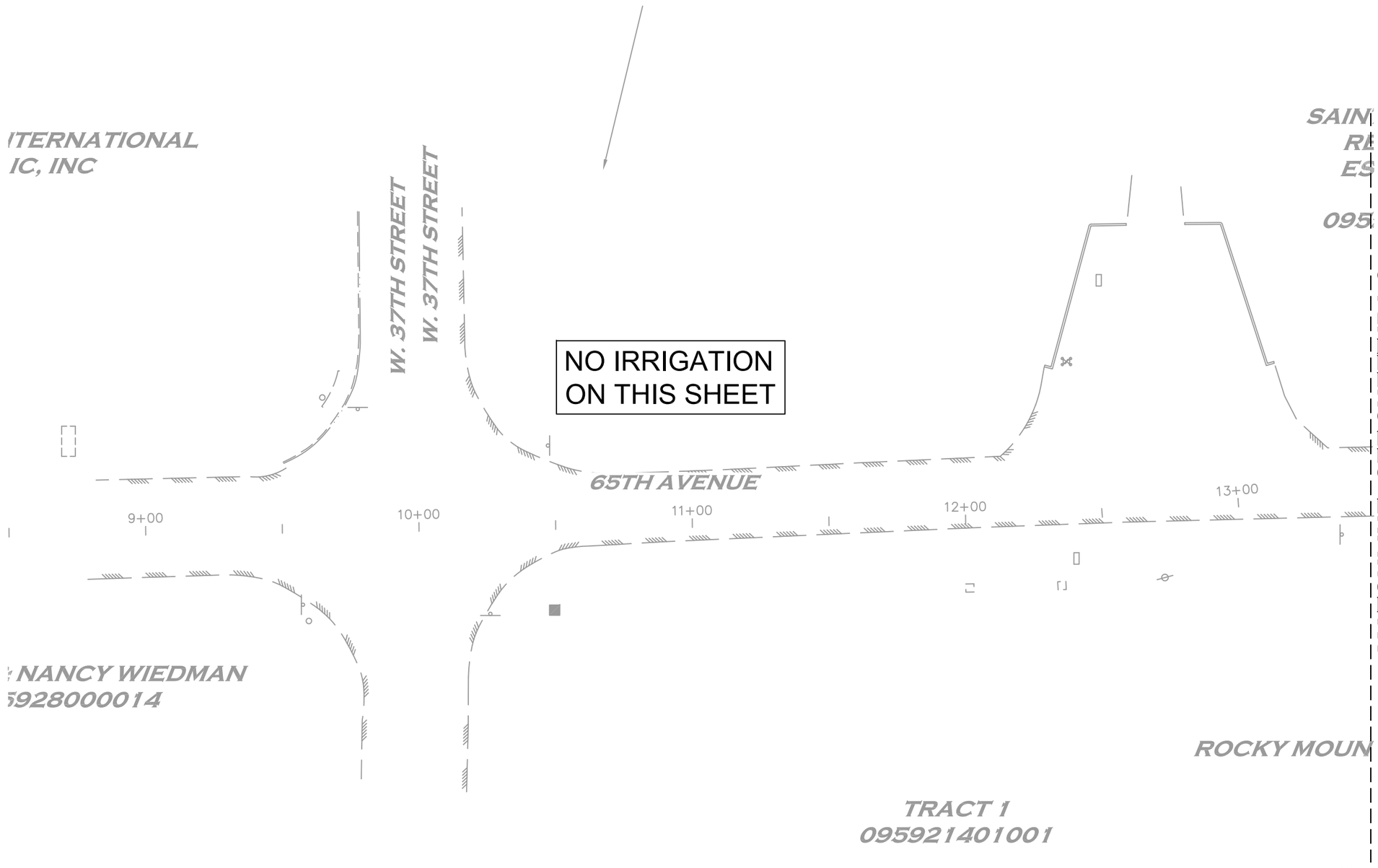
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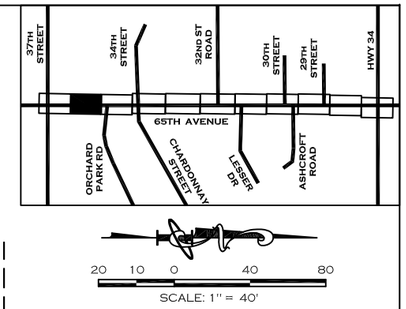
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IRRIGATION PLAN
STA 9+00 TO STA 13+50

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SERVOIR
TATE LLC

921000040

MATCHLINE - SEE SHEET IR1.1

TAIN CROSSROADS

TRACT 2
CITY OF EVANS

14+00
15+00
16+00
17+00
18+00

65TH AVENUE

65TH AVENUE

TRACT 4
CITY OF EVANS

MATCHLINE - SEE SHEET IR1.3

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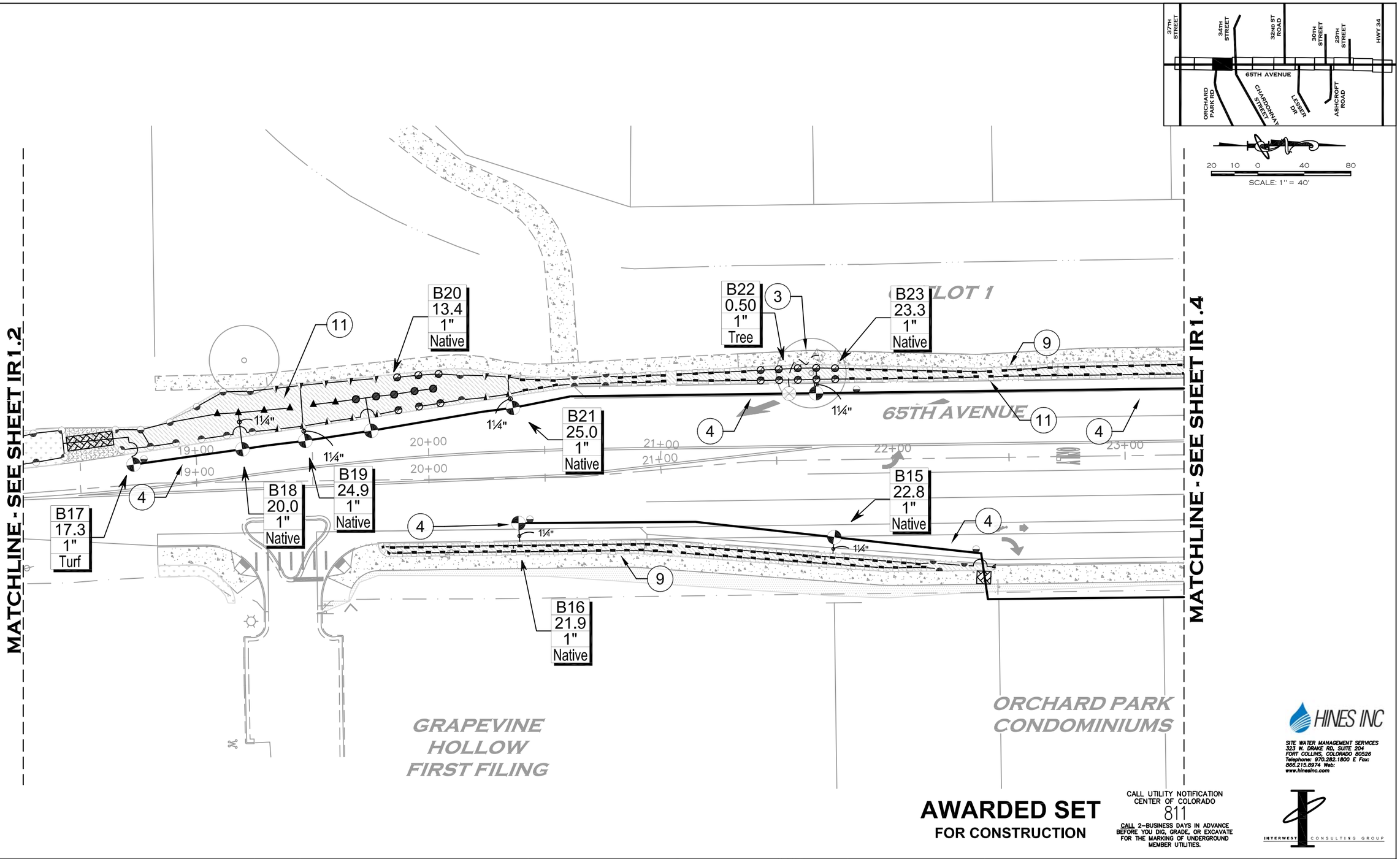
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IRRIGATION PLAN
STA 13+50 TO STA 18+25

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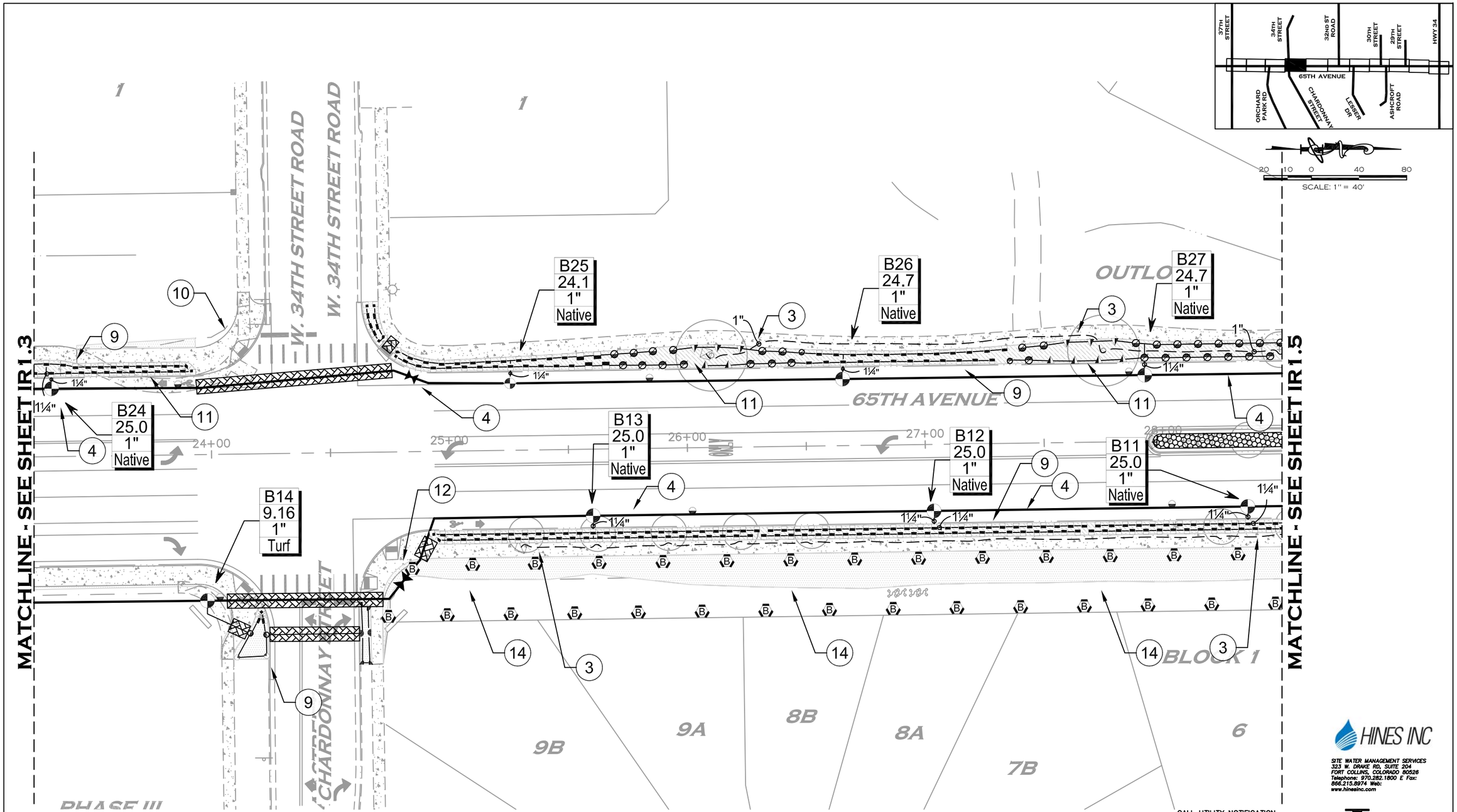
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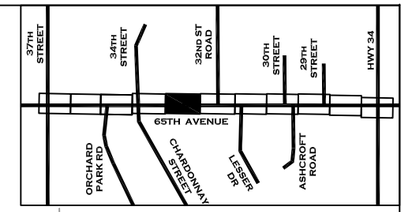
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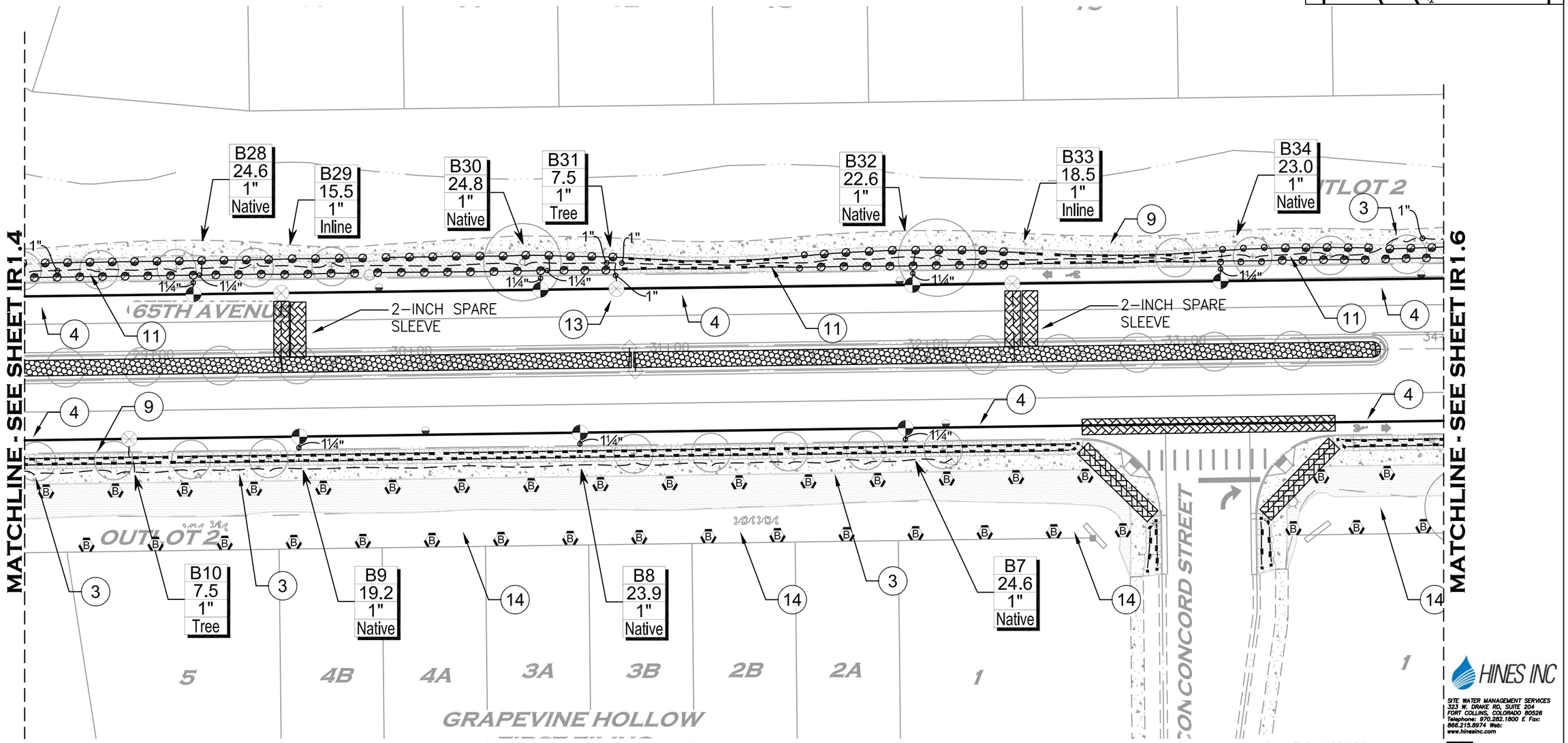
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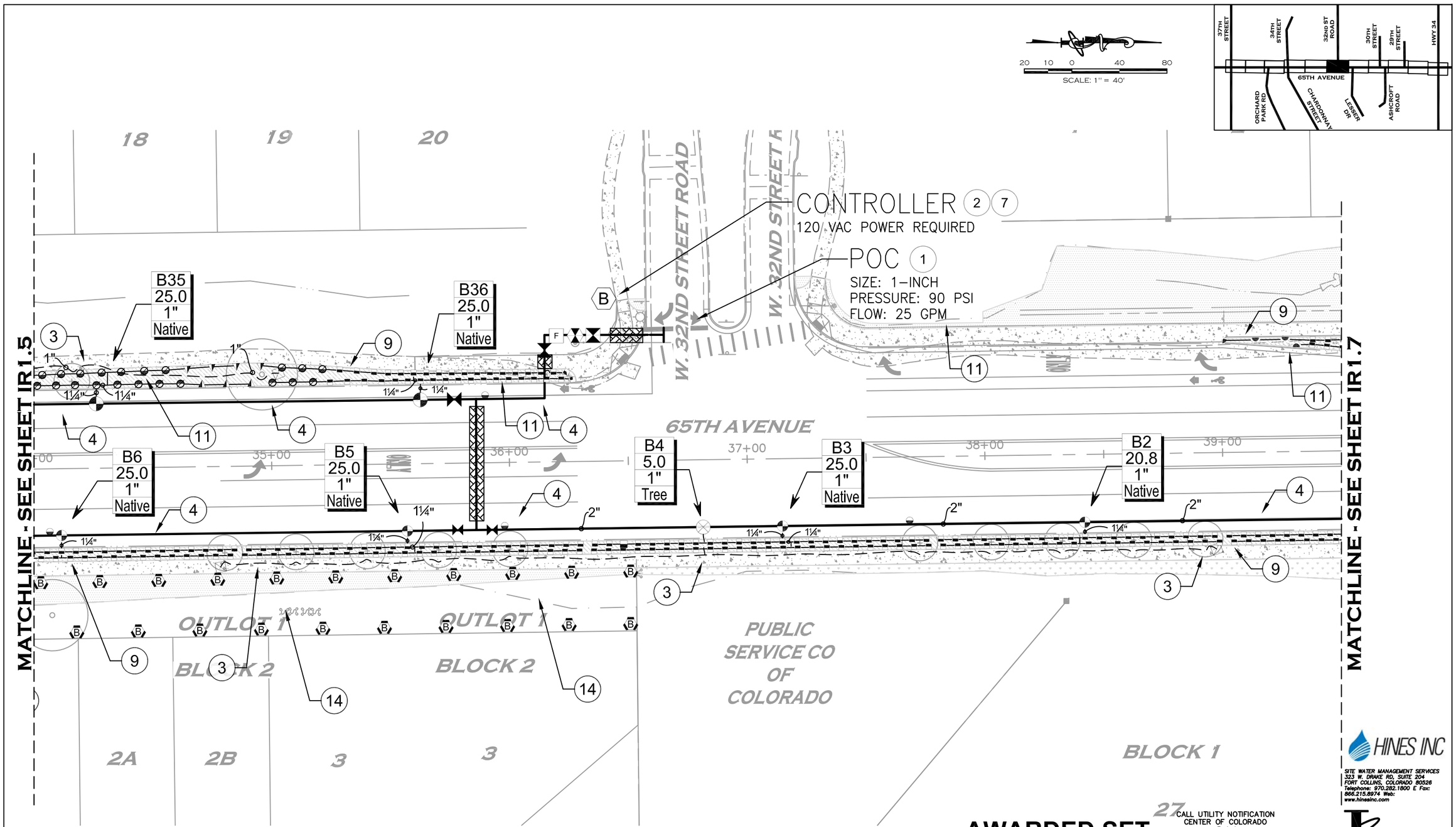
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

HINES INC
SITE WATER MANAGEMENT SERVICES
323 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800 E Fax: 866.215.8974 Web: www.hinesinc.com

INTERWEST CONSULTING GROUP

City of Greeley
Engineering Dept.
1001 9th Avenue
Greeley, CO 80631
Phone: 970.350.9881

CDOT
10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2126
FAX: 970-350-2198
Region 4 LHN

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Last Modification Date: 10/12/2016	Initials: JPW
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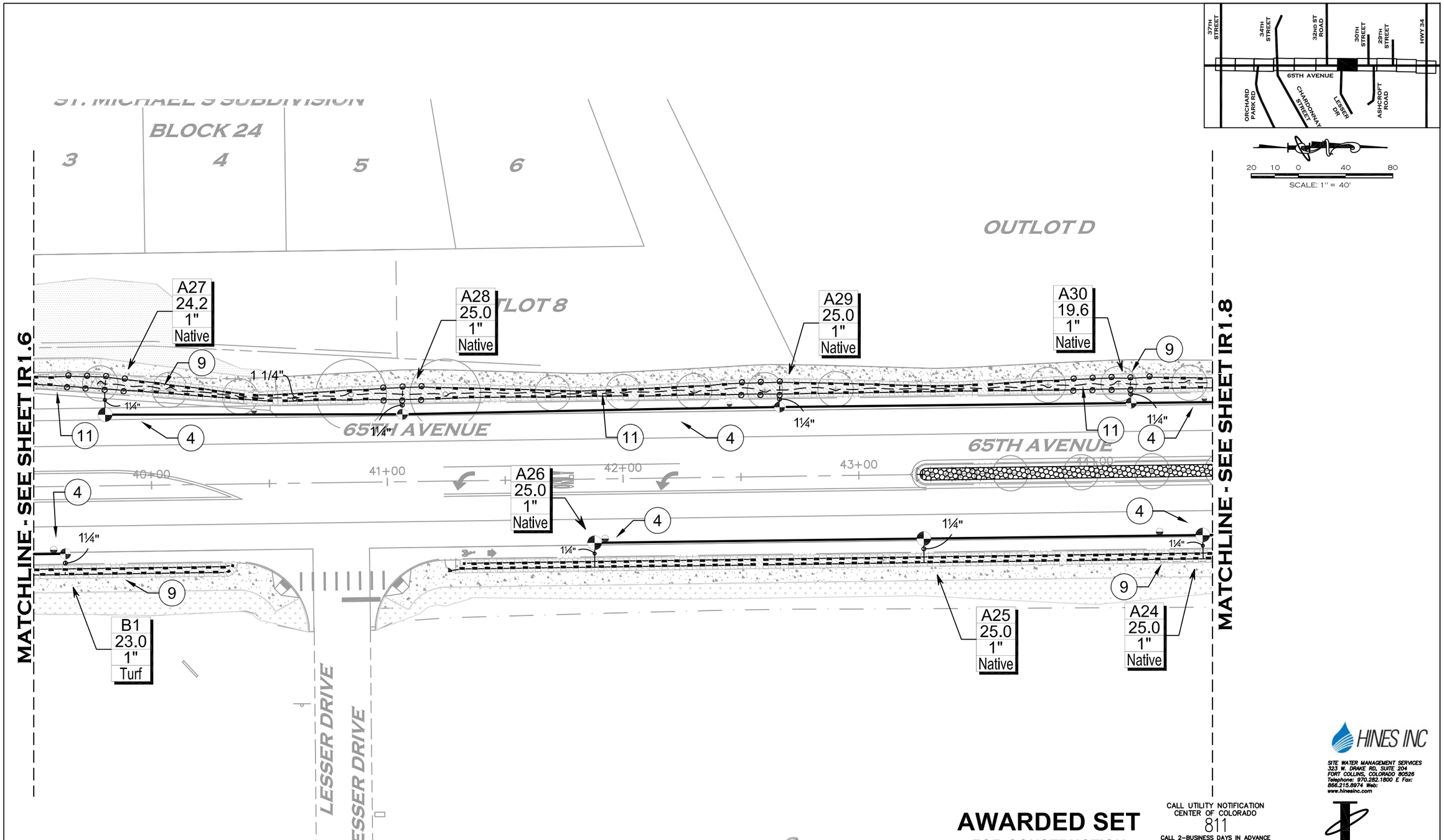
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Void:	

IRRIGATION PLAN
STA 34+00 TO STA 39+50

Designer:	JPW		
Detailer:	EWP		
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Project No./Code
STU M570-046
20148
SHEET NUMBER IR1.6



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FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800 E Fax: 866.215.8974 Web: www.hinesinc.com

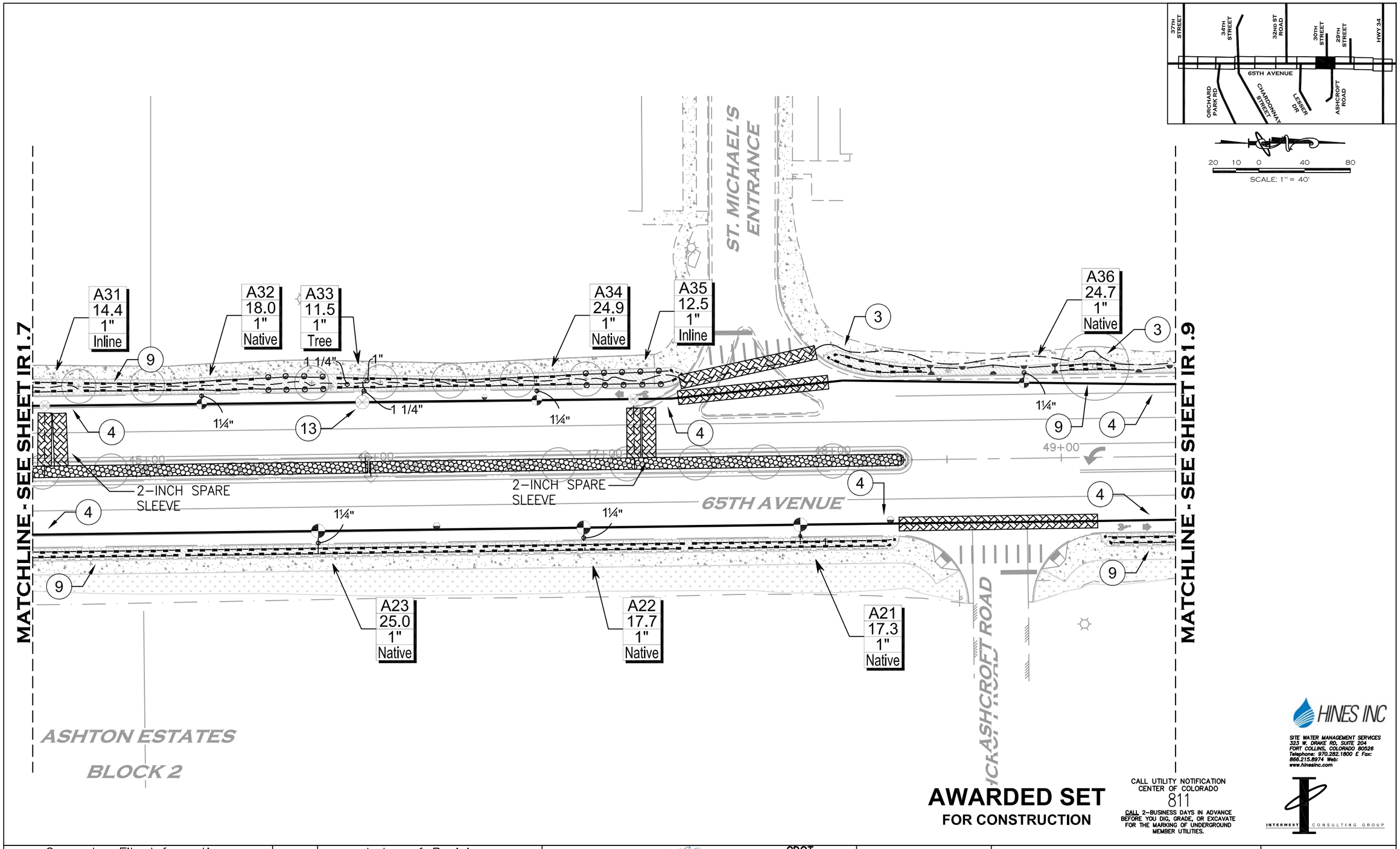
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As Constructed	IRRIGATION PLAN	Project No./Code
No Revisions:	STA 39+50 TO STA 44+50	STU M570-046
Revised:	Designer: JPW	20148
Void:	Detailer: EWP	SHEET NUMBER IR1.7
	Sheet Subset: Subset Sheet:: 11 of 28	



AWARDED SET
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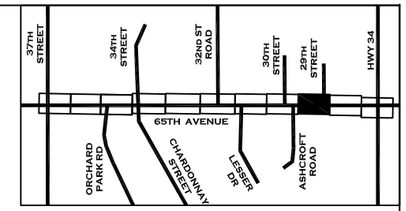
INTERWEST CONSULTING GROUP

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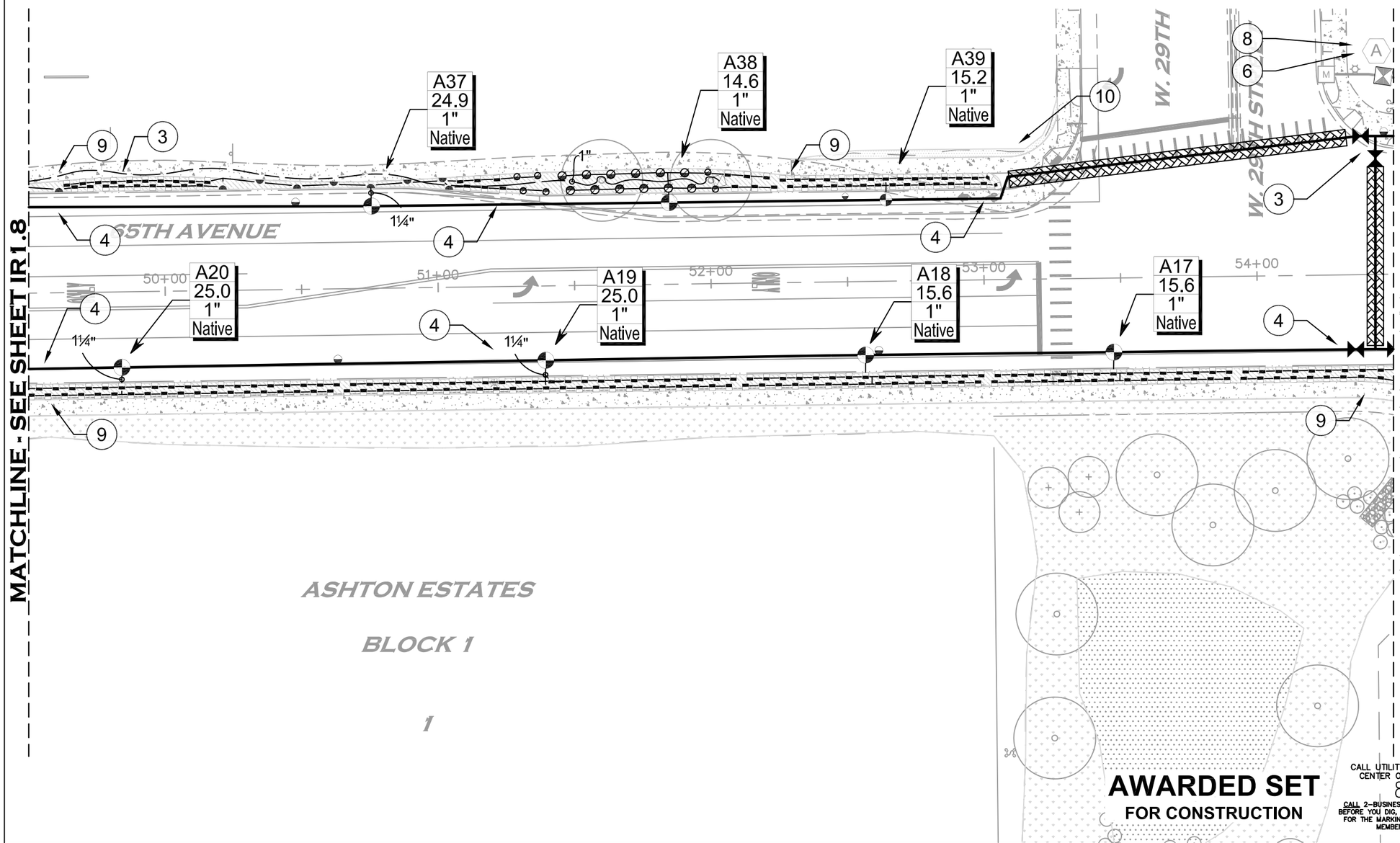
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As Constructed	IRRIGATION PLAN STA 44+50 TO STA 49+50			Project No./Code
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Revised:	Designer: JPW			20148
Void:	Detailer: EWP			SHEET NUMBER IR1.8
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20 10 0 40 80

SCALE: 1" = 40'



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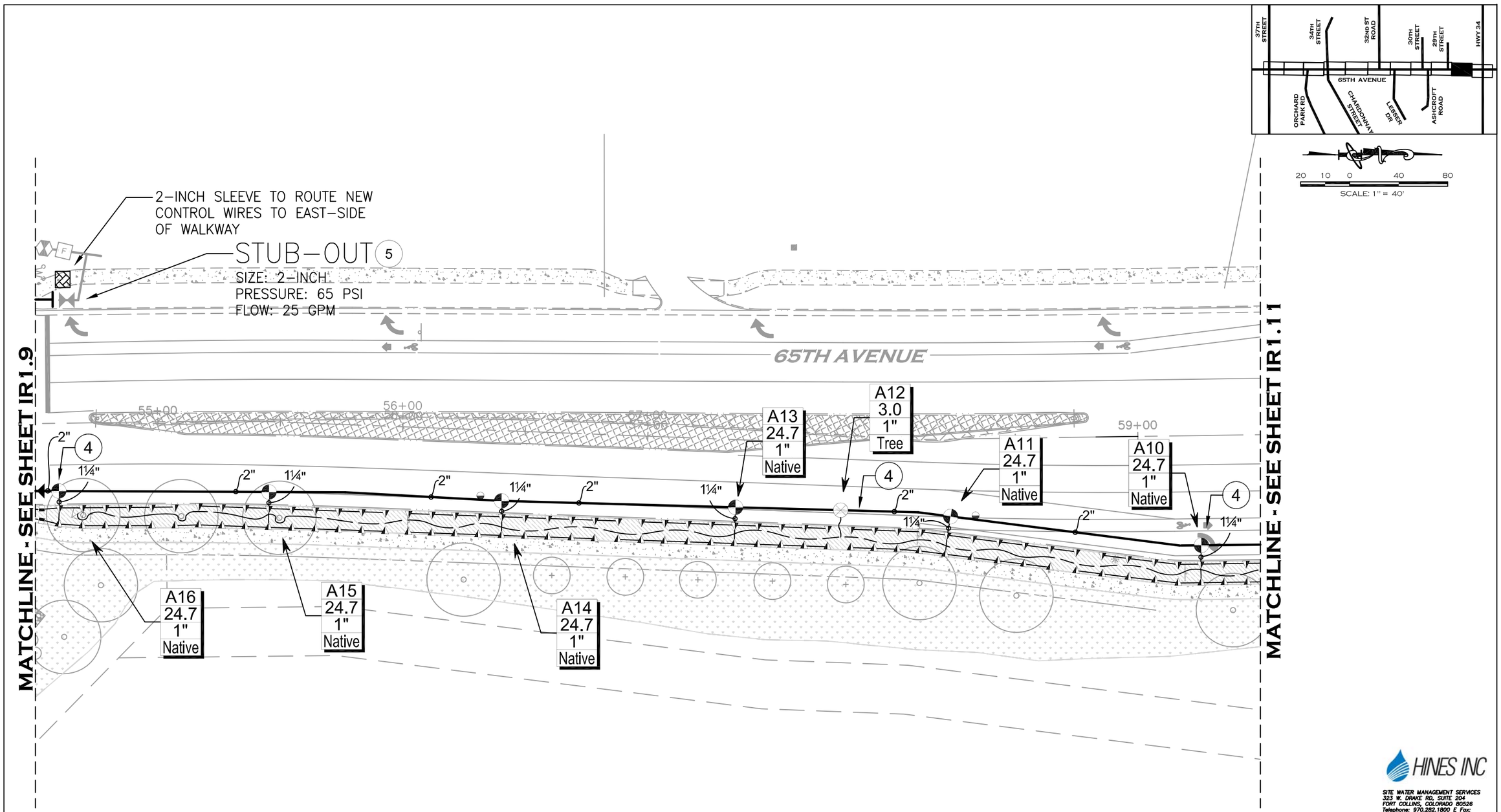
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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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Region 4 LHN

As Constructed	IRRIGATION PLAN	Project No./Code
No Revisions:	STA 49+50 TO STA 54+50	STU M570–046
Revised:	Designer: JPW	20148
Void:	Detailer: EWP	SHEET NUMBER IR1.9
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Telephone: 970.282.1800 E Fax: 866.215.5974 Web: www.hinesinc.com

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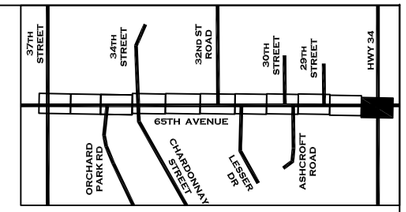
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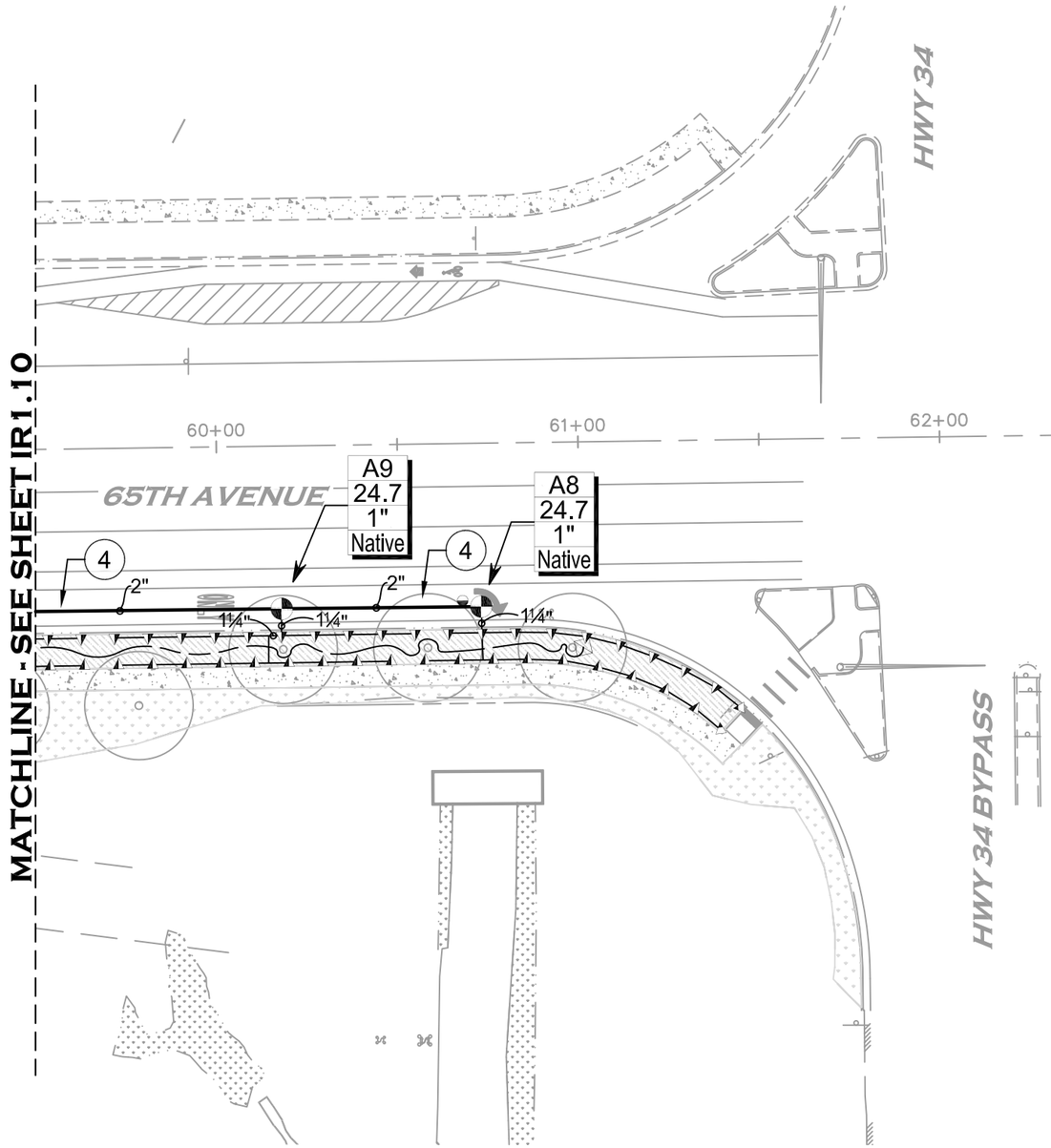
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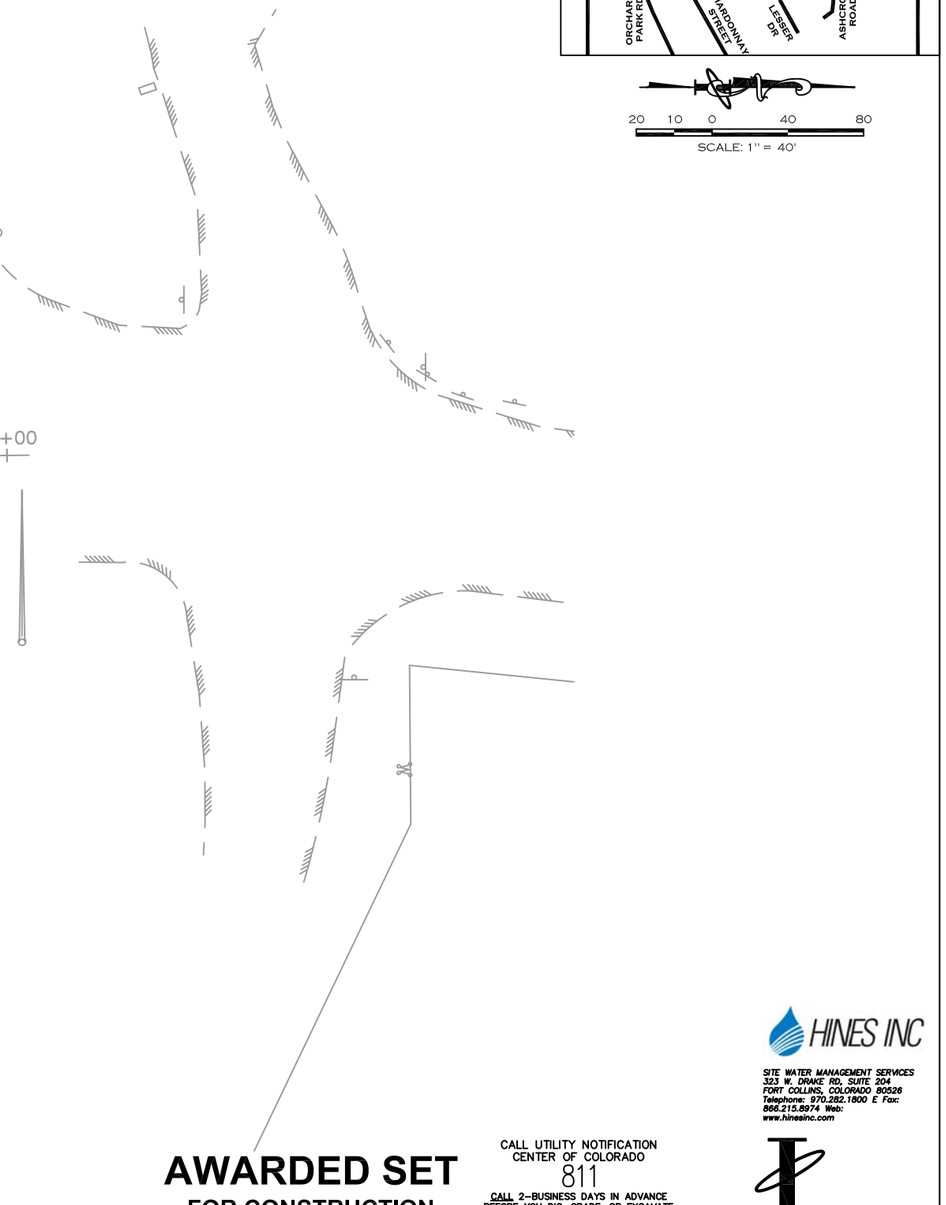
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As Constructed	IRRIGATION PLAN	Project No./Code
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Revised:	Designer: JPW	20148
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		SHEET NUMBER IR1.10







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Computer File Information		
Creation Date: 03/07/2016		Initials: JPW
Last Modification Date: 10/12/2016		Initials: JPW
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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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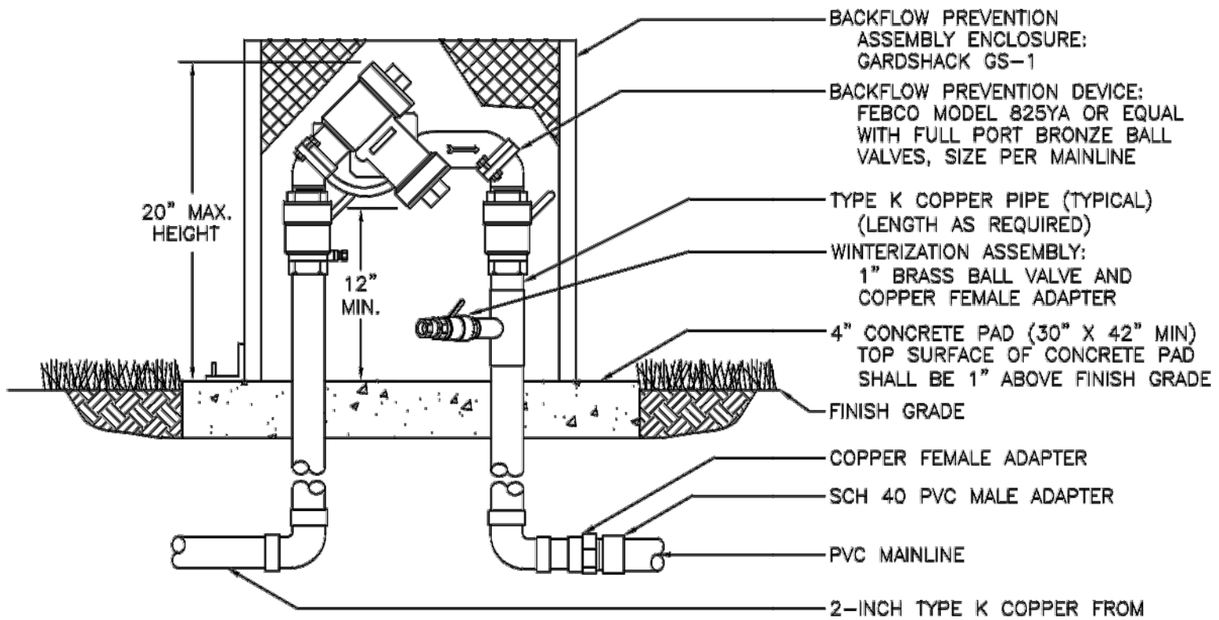
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No Revisions:	
Revised:	
Void:	

IRRIGATION PLAN
STA 59+50 TO STA 63+00

Designer:	JPW		
Detailer:	EWP		
Sheet Subset:		Subset Sheet::	15 of 28

Project No./Code
STU M570–046
20148
SHEET NUMBER IR1.11



NOTES:
1. FURNISH FITTINGS AND PIPING SIZED IDENTICALLY WITH NOMINAL BACKFLOW PREVENTION DEVICE.
2. INSTALL BACKFLOW PREVENTION ASSEMBLY ENCLOSURE AND CONCRETE PAD PER MANUFACTURES RECOMMENDATIONS.
3. INSTALL WINTERAZATION ASSEMBLY DOWNSTREAM OF BACKFLOW ASSEMBLY, ANGLED TO ALLOW AIR HOSE CONNECTION.

CITY of GREELEY
PARKS DIVISION
501 NORTH 14th AVENUE
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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: REDUCED PRESSURE ASSEMBLY

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE of ONE SHEETS

HINES INC
SITE WATER MANAGEMENT SERVICES
333 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800 E Fax: 866.215.8974 Web: www.hinesinc.com

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INTERWEST CONSULTING GROUP

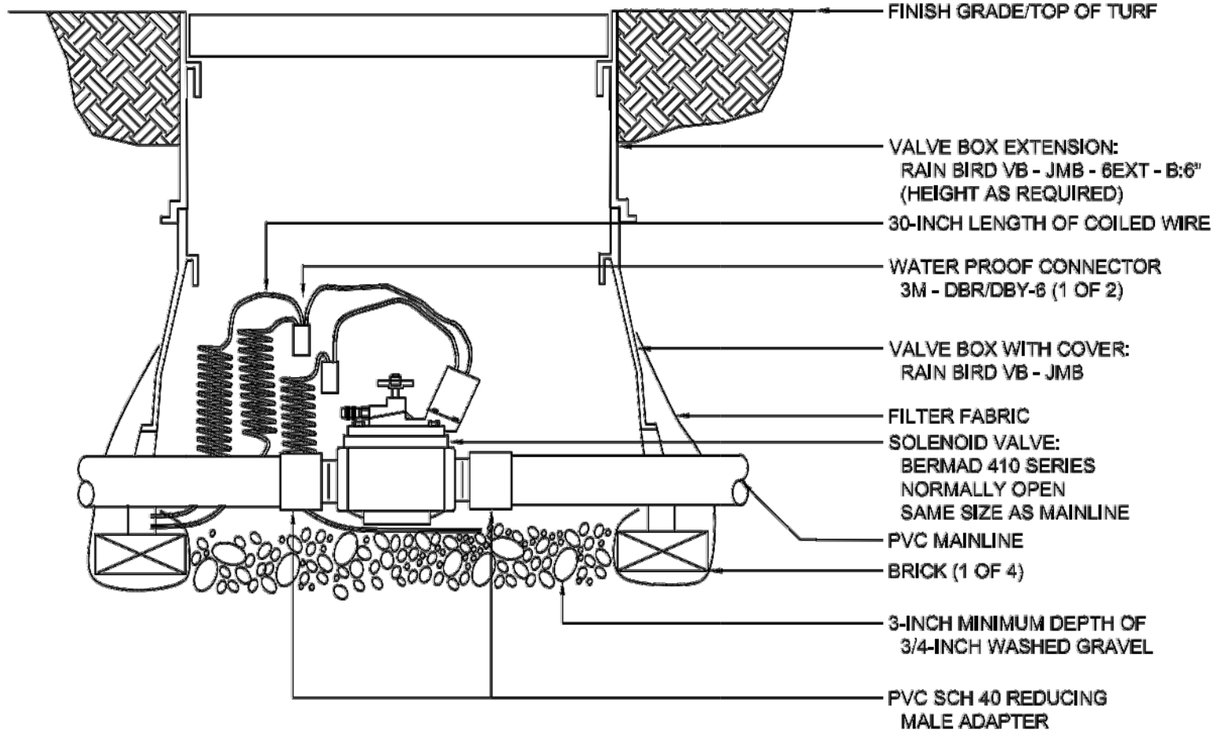
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Acad Ver. 2007	Scale: 1"=40'	Units: ENGLISH

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Region 4 LHN

As Constructed			
No Revisions:	IRRIGATION DETAILS -		Project No./Code
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NOTES:
1. PROVIDED NORMALLY OPEN MASTER VALVE.
2. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

CITY of GREELEY
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GREELEY, COLORADO 80631

REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: MASTER VALVE

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE
of
ONE SHEETS

HINES INC
SITE WATER MANAGEMENT SERVICES
323 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800 E Fax: 866.215.8974 Web: www.hinesinc.com

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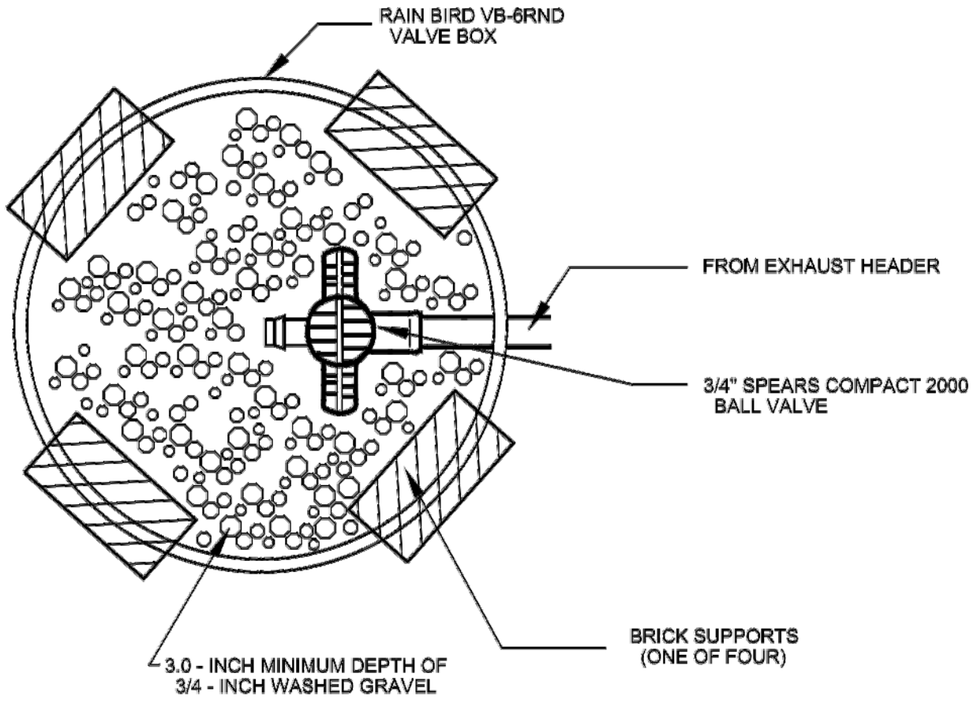
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NOTES:

1. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

CITY of GREELEY
PARKS DIVISION
501 NORTH 14th AVENUE
GREELEY, COLORADO 80631

REVISIONS:	BY:	DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: DRIP DRAIN VALVE

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 07/16/2007

SHEET ONE
of
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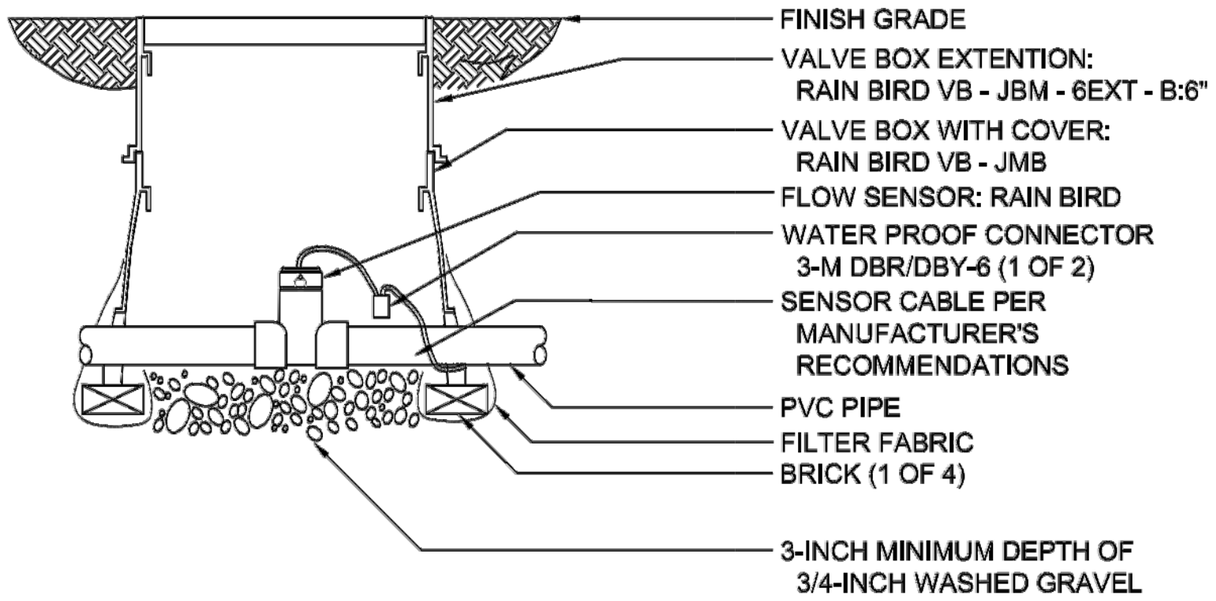
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NOTES:

1. ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF STRAIGHT RUN OF PIPE TO ACHIEVE PROPER FLOW READINGS.
2. PROVIDE AND INSTALL ALL NECESSARY PERIPHERAL DEVICES AND MAKE ALL NECESSARY CONNECTIONS TO IRRIGATION CONTROLLER.
3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

CITY of GREELEY
PARKS DIVISION
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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: FLOW SENSOR

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE
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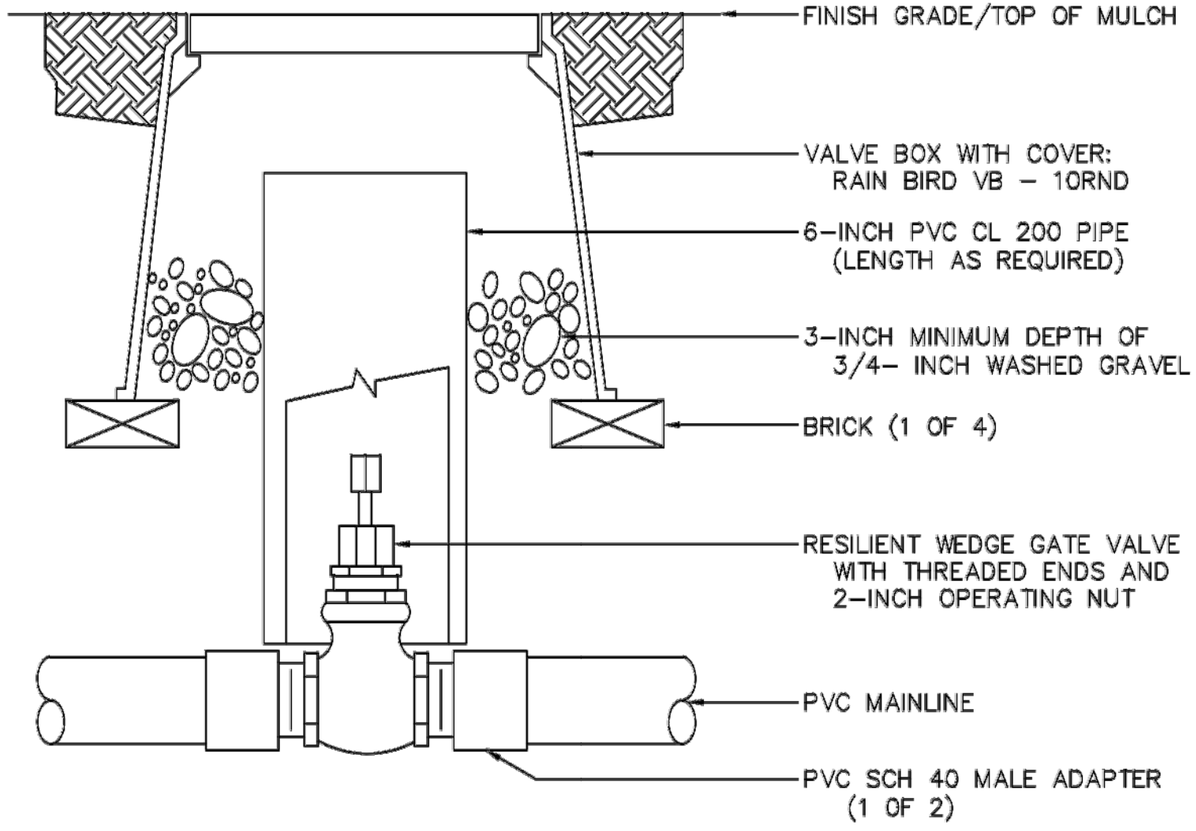
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1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE, THE OPERATOR IS A WRENCH NUT.

CITY of GREELEY
PARKS DIVISION
501 NORTH 14th AVENUE
GREELEY, COLORADO 80631

REVISIONS	BY:	DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: ISOLATION GATE VALVE

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

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of
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Drawing File Name: IR– 65TH Ave Phase 2.dwg		
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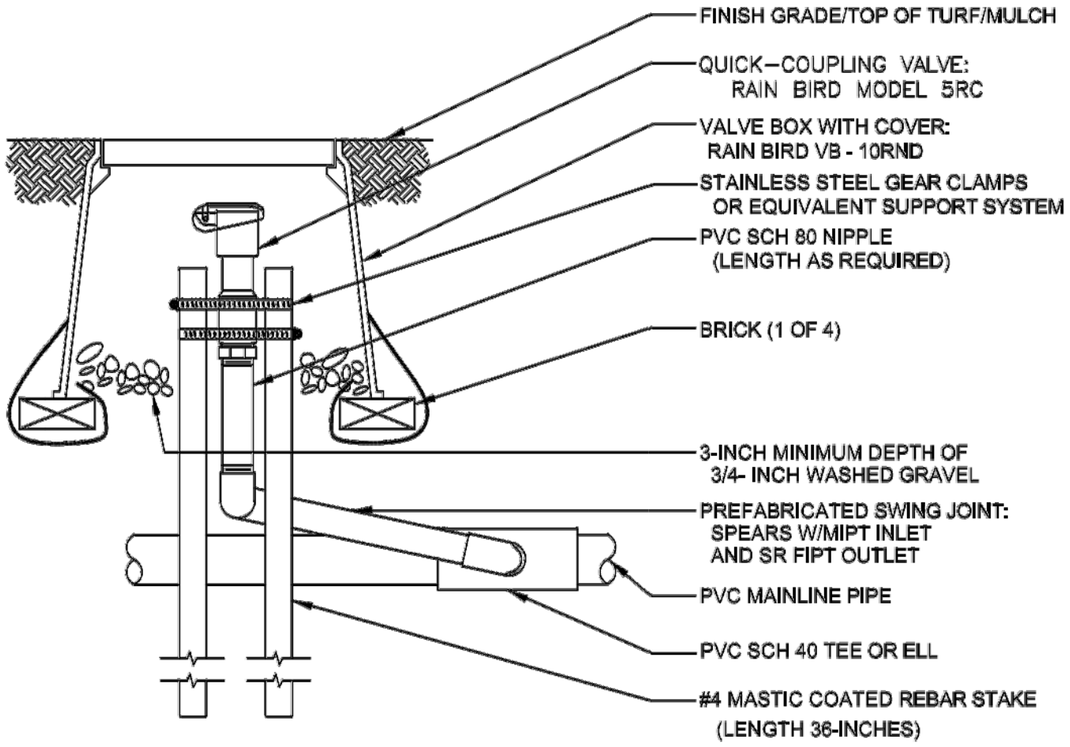
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IRRIGATION DETAILS
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STU M570–046
20148
SHEET NUMBER IR2.3



NOTES:

1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. INSTALL SWING JOINT LAY ARM BETWEEN 30 AND 45 DEGREES OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT. IF LATERAL PIPE IS NOT INSTALLED AT SPECIFIED DEPTH, CONSULT PROJECT MANAGER PRIOR TO INSTALLATION OF SWING JOINT.
3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: QUICK COUPLER VALVE

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE
of
ONE SHEETS

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Last Modification Date: 10/12/2016	Initials: JPW
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Drawing File Name: IR– 65TH Ave Phase 2.dwg	
Acad Ver. 2007 Scale: 1"=40'	Units: ENGLISH

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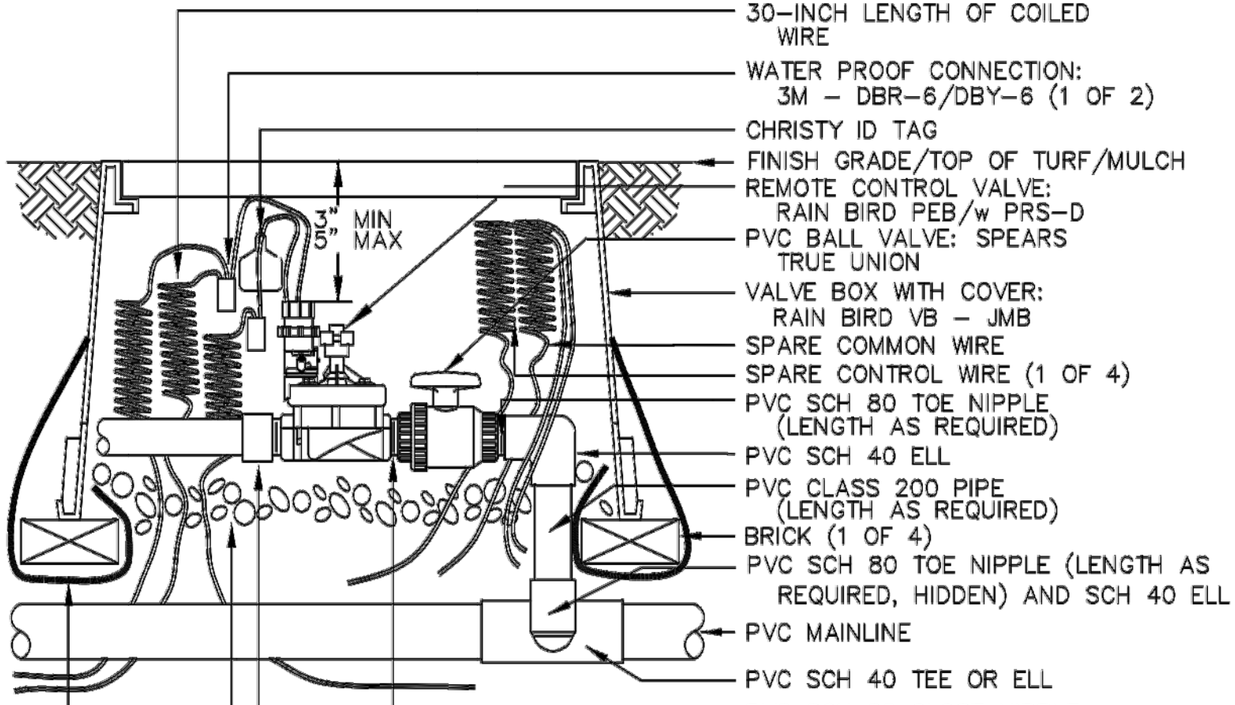
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SHEET NUMBER IR2.4



30–INCH LENGTH OF COILED WIRE
WATER PROOF CONNECTION: 3M – DBR–6/DBY–6 (1 OF 2)
CHRISTY ID TAG
FINISH GRADE/TOP OF TURF/MULCH
REMOTE CONTROL VALVE: RAIN BIRD PEB/w PRS–D
PVC BALL VALVE: SPEARS TRUE UNION
VALVE BOX WITH COVER: RAIN BIRD VB – JMB
SPARE COMMON WIRE
SPARE CONTROL WIRE (1 OF 4)
PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
PVC SCH 40 ELL
PVC CLASS 200 PIPE (LENGTH AS REQUIRED)
BRICK (1 OF 4)
PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED, HIDDEN) AND SCH 40 ELL
PVC MAINLINE
PVC SCH 40 TEE OR ELL
PVC SCH 80 CLOSE NIPPLE
PVC SCH 40 MALE ADAPTER
3–INCH MINIMUM DEPTH OF 3/4–INCH WASHED GRAVEL
FILTER FABRIC

NOTES:
1. USE PRS–D WHEN STATIC PRESSURE IS 15 P.S.I. OR GREATER THAN DESIGN PRESSURE.
2. USE VALVE BOX EXTENSIONS AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE VALVE ASSEMBLY.
3. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
4. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
5. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING 45 DEGREE ELBOW FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
6. USE PES–B SERIES VALVES WITH 'DIRTY' WATER.

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PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: REMOTE CONTROL VALVE

DRAWN BY: SCA
CHECKED BY: JPW
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE of ONE SHEETS

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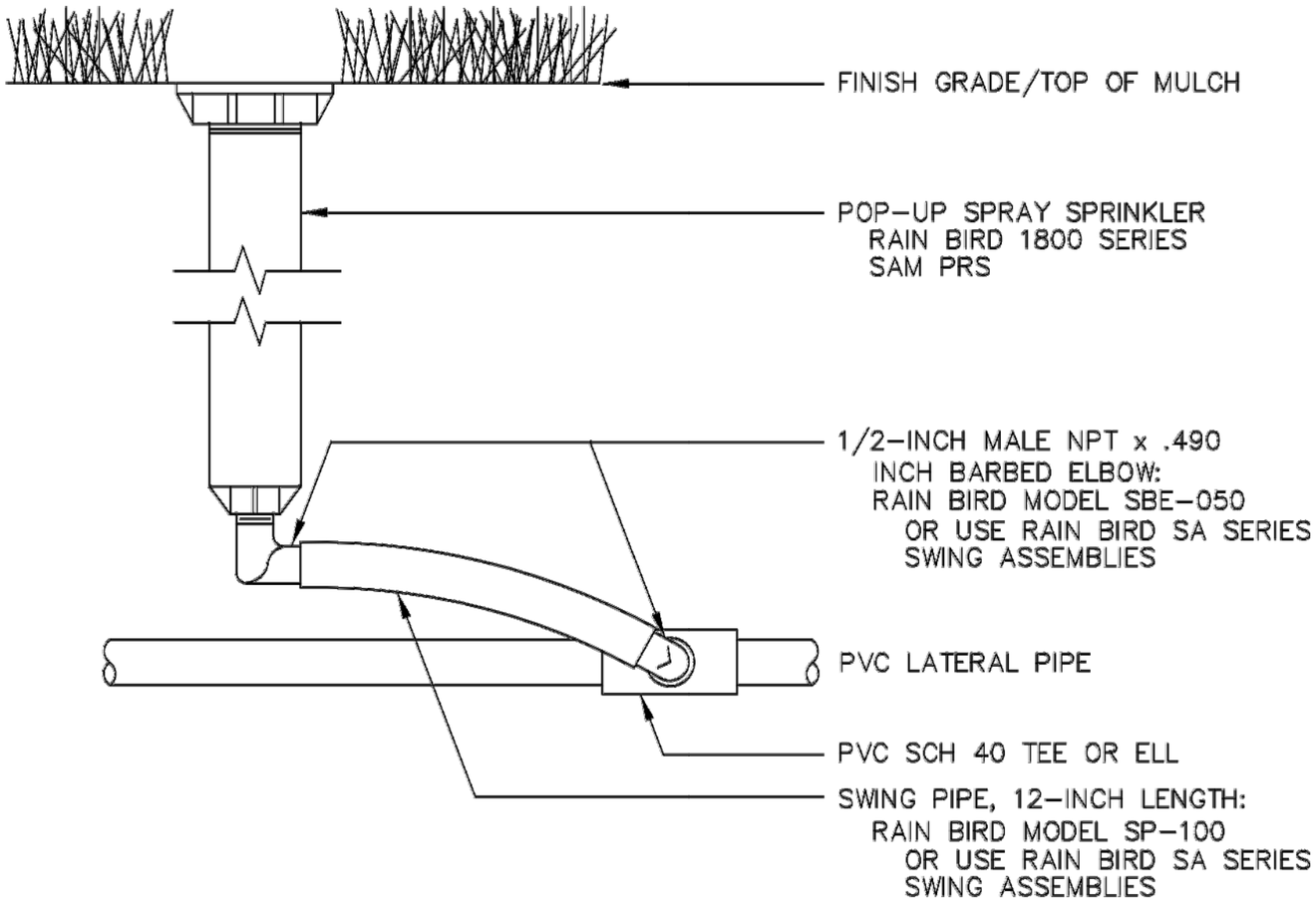
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Designer:	JPW		
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NOTE:

1. IF USING EITHER 1806 OR 1812 HEADS, THE SWING PIPE ASSEMBLY MUST BE INSTALLED IN THE BOTTOM INLET. THE USE OF THE SIDE INLET IS PROHIBITED.

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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: POP-UP SPRAY HEAD

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE
of
ONE SHEETS

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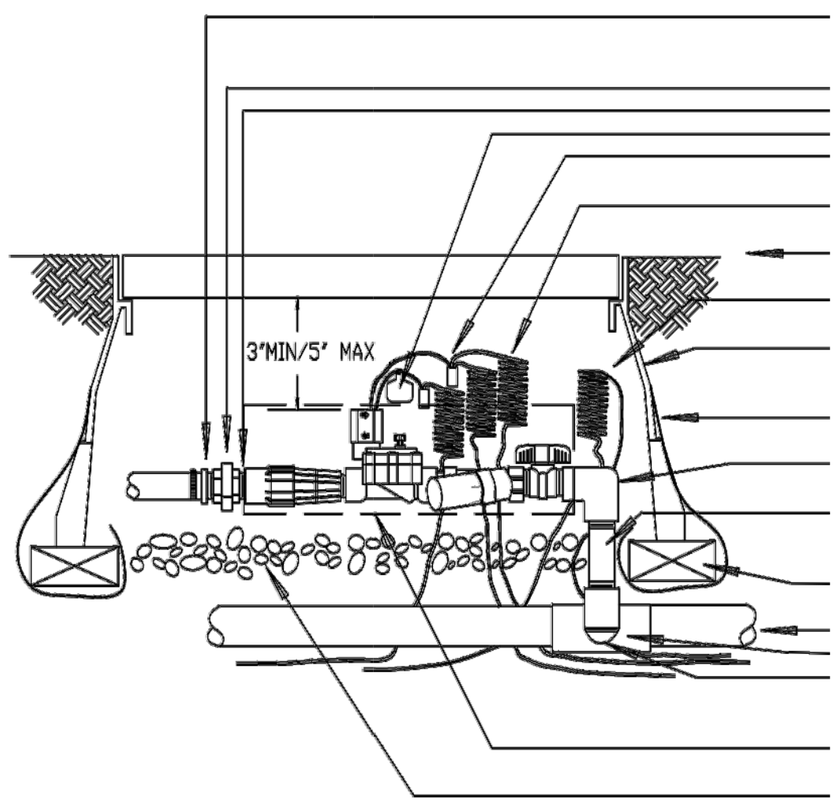
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REDUCING MALE INSERT ADAPTER WITH STAINLESS STEEL SCREW CLAMP
PVC SCH 40 UNION
PVC SCH 80 NIPPLE
CRISTY ID TAG
WATERPROOF CONNECTION 3M - DBR-6/DBY-6 (1 OF 2)
30-INCH LENGTH OF COILED WIRE
FINISH GRADE
SPARE WIRE
VALVE BOX WITH COVER: RAIN BIRD VB - JMB
FILTER FABRIC
PVC SCH 40 EL
PVC SCH 80 NIPPLE (LENGHT AS REQUIRED)
BRICK (1 OF 4)
PVC MAINLINE
PVC SCH 40 TEE OR EL
PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 EL
CONTROL ZONE KIT: SEE DRIPLINE DETAIL FOR PROPER MODEL
3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

NOTES:
1. USE VALVE BOX EXTENSIONS AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE AND BELOW ASSEMBLY.
2. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO POPE AND VALVE BOX.

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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: DRIP VALVE ASSEMBLY

DRAWN BY: SCA
CHECKED BY: JP
SCALE: N.T.S.
DATE: 07/14/2004

SHEET ONE
of
ONE SHEETS

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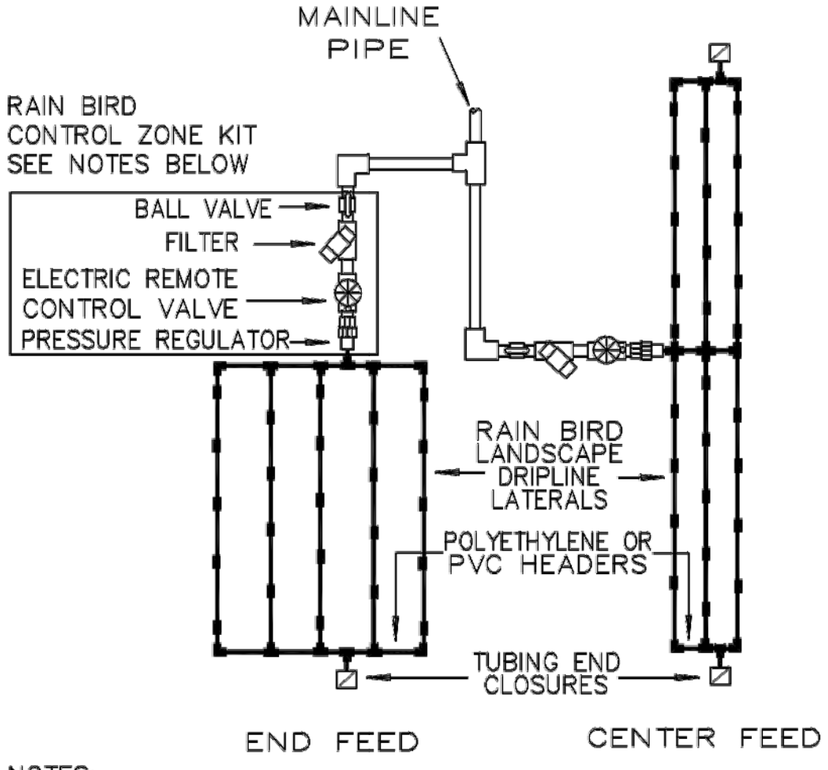
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20148
SHEET NUMBER IR2.7



NOTES:

1. USE RAIN BIRD XCZ–LF–075–BF KITS FOR FLOWS BELOW 3 GPM
2. USE RAIN BIRD XCZ–100–BFF KITS FOR FLOWS BETWEEN 3 GPM AND 15 GPM
3. USE RAINBIRD LANDSCAPE DRIPLINE LD–06–12 UNLESS OTHERWISE INDICATED ON PLANS
4. START HEADERS 8" FROM HARDSCAPE AND BED EDGES.
5. START DRIPLINE ROWS 8" FROM HARDSCAPE. START DRIPLINE ROWS 6" FROM BED EDGES.
6. LANDSCAPE DRIPLINE CAN BE USED FOR SUPPLY AND EXHAUST HEADERS FOR ZONES WITH FLOWS UP TO 5 G.P.M.

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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: IN-LINE DRIP TUBING

DRAWN BY: SCA
CHECKED BY: JP
SCALE: N.T.S.
DATE: 07/14/2004

SHEET ONE of ONE SHEETS

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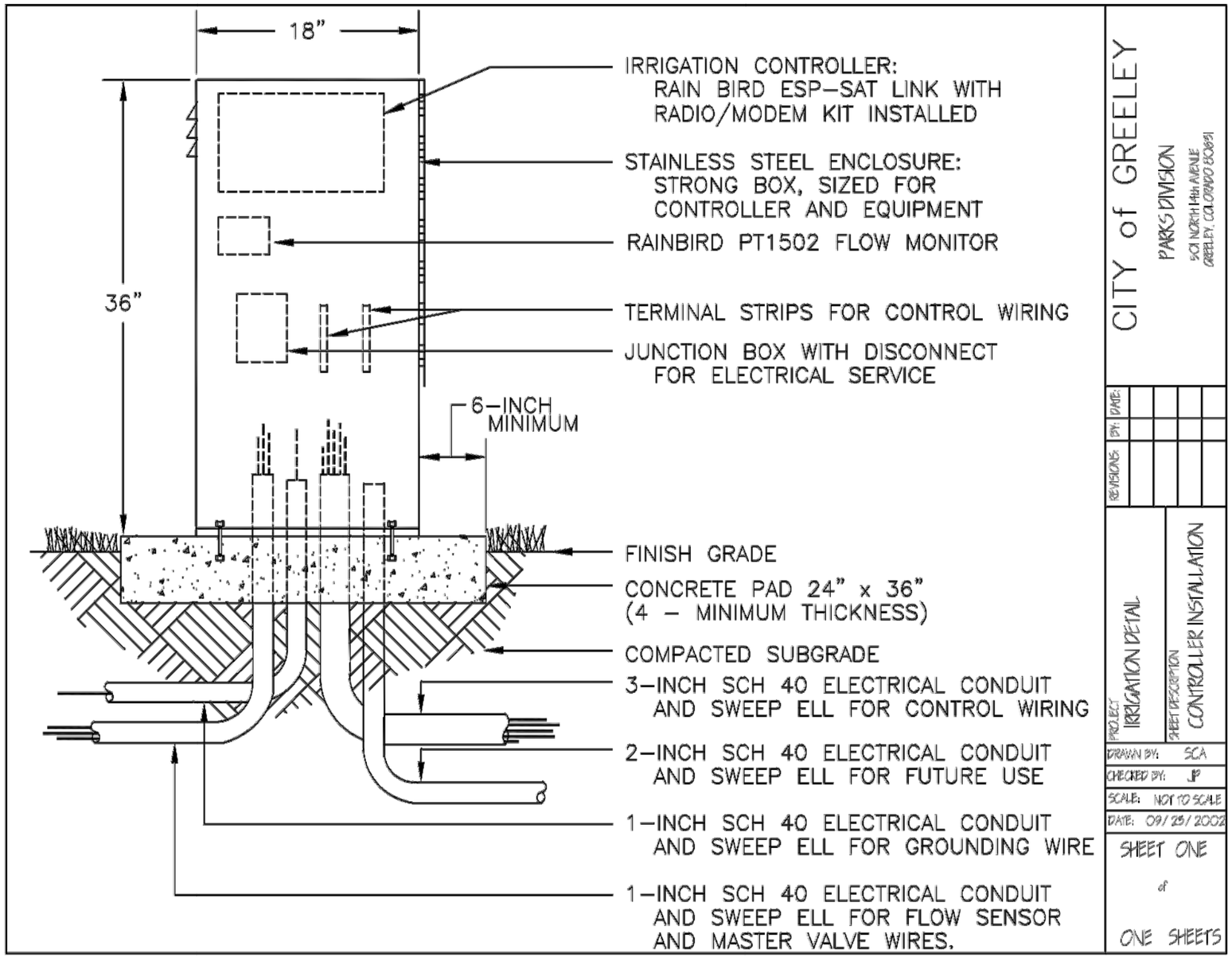
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REVISIONS | BY: | DATE:

PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: CONTROLLER INSTALLATION

DRAWN BY: SCA
CHECKED BY: JP
SCALE: NOT TO SCALE
DATE: 09/25/2002

SHEET ONE of ONE SHEETS

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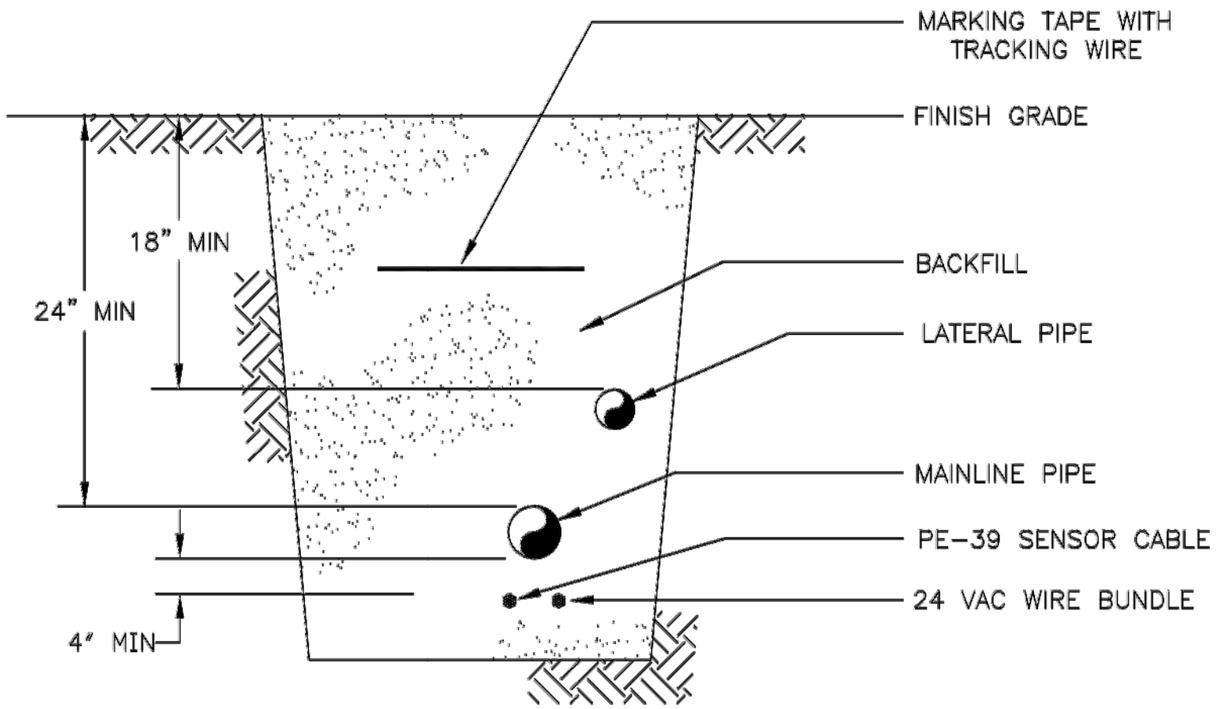
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NOTE:
1. INSTALL 8-INCH AND LARGER PIPE AT 30-INCH MINIMUM DEPTH OF COVER.

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PROJECT: IRRIGATION DETAIL
SHEET DESCRIPTION: TRENCH DEEPTH

DRAWN BY:	SCA
CHECKED BY:	JP
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DATE:	09/25/2002

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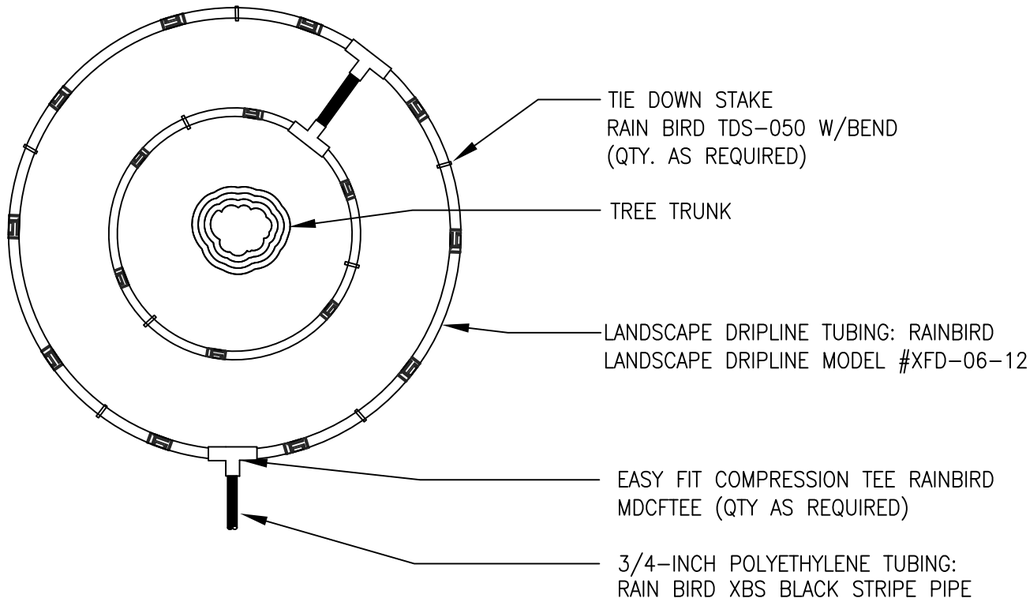
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NOTE:
1. CONTRACTOR SHALL INSTALL ALL DRIP TUBING IN TURF AND NATIVE AREAS 2-3" BELOW GRADE.
2. DIAMETER OF DRIPLINE RINGS ARE DEPENDANT ON TREE CANOPY SIZE.

13 INLINE DRIP PIPE ASSEMBLY
FOR TREES IN NATIVE OR TURF

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