

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

**Related Projects:**

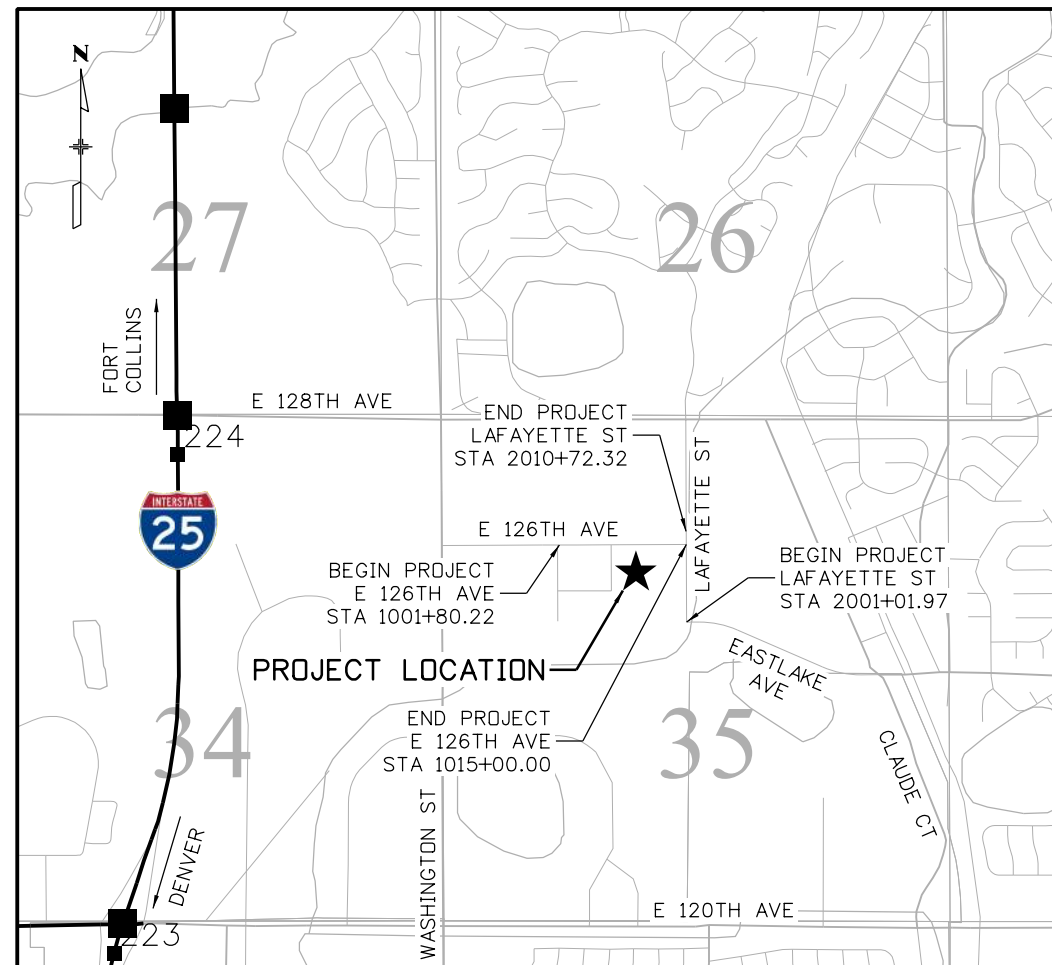
P. E. UNDER PROJECT: SAR M286-046  
Project Number: 22552  
Project Code:

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. SAR M286-046 E 126TH AVENUE AND LAFAYETTE STREET ADAMS COUNTY CONSTRUCTION PROJECT CODE NO. 22552

TABULATION OF LENGTH			
STATION	DISTANCE (FEET)	ROADWAY	
		E 126TH AVE	LAFAYETTE ST
		BEGIN	STA 1001+80.22
END	STA 1015+00.00	1319.78	
BEGIN	STA 2001+01.97		
END	STA 2010+72.32		970.35
TOTAL		1320	971
<b>SUMMARY OF PROJECT LENGTH</b>		<b>FEET</b>	<b>MILES</b>
PROJECT GROSS LENGTH		2291	0.43

CITY OF THORNTON CONTACT		
PROJECT MANAGER	TIFFANY HESS, PE	(720) 977-6207

- CITY OF THORNTON DETAILS LIST:**
- 500-08A CURB AND GUTTER TYPE 2 (SECTION IB AND IIB)
  - 700-11 SIGN POST ANCHOR DETAIL
  - 700-12 SIGN ASSEMBLY DETAIL
  - 700-14 PAVEMENT MARKINGS AND SIGN LOCATIONS DETAIL
  - 700-16A CROSSWALK AND STOP BAR PAVEMENT MARKING DETAIL
  - 700-18 CROSSWALK PAVEMENT MARKING DETAIL



**PROJECT LOCATION MAP**

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Print Date: 6/27/2022

File Name: 22552DES\_TitleSheet.dgn

Horiz. Scale: 1:2000

Unit Information

**Stofus**  
5690 DTC Boulevard, Suite 330W  
Greenwood Village, CO 80111  
Phone: 303-221-2330  
Fax: 303-221-2331  
www.stofusandassociates.com

**Sheet Revisions**

Date:	Comments	Init.

**Colorado Department of Transportation**  
Region 1  
2829 W. Howard Place  
Denver, CO 80204  
Phone: 303-757-9007

**City of Thornton**  
9500 Civic Center Dr  
Thornton, CO 80229  
Phone: 720-977-6226

**As Constructed**

No Revisions:

Revised:

Void:

**Contract Information**

Contractor:

Resident Engineer:

Project Engineer:

PROJECT STARTED:                      ACCEPTED:

Comments:

**Project No./Code**

SAR M286-046

22552

Sheet Number **1**

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<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
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<input checked="" type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
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**COLORADO**  
**DEPARTMENT OF TRANSPORTATION**  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on September 6, 2022

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

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE PLANS. ALL THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Print Date: 9/21/2022 File Name: 22552DES_StdPlanList.dgn Horiz. Scale: 1:1 Unit Information	<b>Sheet Revisions</b> <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.										<b>Colorado Department of Transportation</b> 2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007 <b>Region 1</b>	9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226	<b>As Constructed</b> No Revisions: Revised: Void:	<b>STANDARD PLANS LIST</b> Designer: BTT Detailer: BTT Sheet Subset: STD PLNS Subset Sheets: 01 of 01	<b>Project No./Code</b> SAR M286-046 22552 Sheet Number <b>2</b>
Date:	Comments	Init.																



**SECTION 200**

1. DEPTH OF MOISTURE - DENSITY CONTROL FOR THE PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS  
BASES OF CUTS AND FILLS - 6 INCHES.  
SUBGRADE WITHIN THE PAVEMENT PRISM - 12 INCHES.

EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND SHALL NOT BE PAID FOR SEPARATELY.

2. ALL EARTHWORK REQUIRED FOR THE PROJECT SHALL NOT BE PAID FOR SEPARATELY AND IS INCLUDED IN THE COST OF THE WORK.
3. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK ON SITE FOR DUST CONTROL. WATER USED AS A DUST PALLIATIVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
4. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPES AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCES BEYOND THESE LIMITS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
5. MATERIAL THAT IS LOOSENED FROM THE ROADWAY WILL BE CLEARED OFF THE ROADWAY (PICKUP BROOM, SWEEP UP) IMMEDIATELY. NONE OF THE MATERIAL SHALL BE ALLOWED TO RUN OFF INTO WATERS OF THE STATE BY ANY MEANS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL APPLICABLE PERMITS AND COORDINATING WITH THE LOCAL UTILITY COMPANIES.
7. THE EROSION CONTROL SUPERVISOR SHALL PROVIDE AND COORDINATE THE PLACEMENT OF ALL EROSION/SEDIMENT CONTROL FEATURES (BMP'S). THESE BMP'S SHALL BE IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND APPROVED BY THE ENGINEER. THE EROSION CONTROL SUPERVISOR AND CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMP'S THAT HAVE BEEN INSTALLED.
8. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO ANY WORK. ALL SUBMITTALS SHALL BE DUE AT THAT TIME. CITY OF THORNTON AND CDOT PERSONNEL SHALL BE INCLUDED IN THE PRE-CONSTRUCTION MEETING AND SHALL BE NOTIFIED 5 WORKING DAYS IN ADVANCE OF THE MEETING WITH DATE AND LOCATION.
9. ALL EROSION/SEDIMENT CONTROL BMP'S SHALL BE PLACED AS NEEDED ACCORDING TO THE CONSTRUCTION PHASING AND AS APPROVED BY THE ENGINEER.
10. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY.
11. AFTER CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH ALL SURVEY CONTROL MONUMENTATION DISTURBED BY CONSTRUCTION. ALL RANGE POINTS, SECTION CORNERS, AND BENCHMARKS SHALL BE SET IN RANGE POINT BOXES AND THE CONTRACTOR SHALL ADJUST THESE BOXES TO FINAL GRADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACING ALL LAND MONUMENTS DISRUPTED BY CONSTRUCTION ACTIVITIES OR BY NEGLIGENCE ON THE PART OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO FOLLOW COLORADO STATE LAW REGARDING SURVEY MONUMENTS.
13. THE USE OF CONTROL MONUMENTS FOR CONSTRUCTION STAKING OTHER THAN THOSE SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER IS PROHIBITED, AND USE OF SUCH MONUMENTS IS AT THE CONTRACTOR'S SOLE RISK.
14. PROPOSED FINISHED GROUND ELEVATIONS FOR THE ITEMS TO BE ADJUSTED, RESET, OR MODIFIED SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ADDITIONALLY, CONTRACTOR WILL BE RESPONSIBLE FOR MATCHING AREAS OF CONSTRUCTION TRANSITIONING BETWEEN NEW CONSTRUCTION GRADE AND UNDISTURBED EXISTING GRADE.
15. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL SHRUBS, LOGS, LIMBS, STUMPS, BRUSH, WOOD MULCH, ROCK MULCH, TRASH AND ETC. TO AN OFFSITE LOCATION.
16. ALL MATERIAL REMOVED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THIS INCLUDES, BUT MAY NOT BE LIMITED TO:

EXCESS EXCAVATION

**ROCKS  
PAVEMENT  
DELINEATORS**

17. RECLAIMED ASPHALT PAVEMENT (RAP), ASPHALT MILLINGS, OR ASPHALT IN ANY FORM WHATSOEVER SHALL NOT BE SUBSTITUTED FOR OR USED IN AGGREGATE BASE COURSE (CLASS 6).
18. ALL COMPACTION SHALL BE PER SECTION 203 OF THE 2019 OR MOST CURRENT CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

**SECTIONS 300/400/500**

19. FOR PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW-SETTING)	@ 0.10 GAL/SQ. YD. (DILUTED)
HOT MIX ASPHALT	@ 110 LBS./SQ.YD./INCH
AGGREGATE BASE COURSE (CLASS 6)	@ 133 LBS./CU.FT.

20. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER. A TACK COAT IS REQUIRED BETWEEN LAYERS OF BITUMINOUS PAVEMENT AND WHERE BITUMINOUS PAVEMENT IS PLACED NEXT TO THE EDGES OF PAVEMENT. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. THE COST OF EMULSIFIED ASPHALT SHALL BE INCLUDED IN THE COST OF ITEMS 403 HOT MIX ASPHALT.
21. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL-WIDTH BEFORE A SUCCEEDING LAYER IS PLACED.
22. WHERE IT IS REQUIRED TO SAWCUT EXISTING PAVEMENT, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE FULL DEPTH WITH A PAVEMENT-CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
23. SAW RESIDUE MATERIAL SHALL BE PROPERLY CONTAINED, COLLECTED AND DISPOSED OF, AND SHALL NOT RUNOFF INTO WATERS OF THE STATE THROUGH INLETS OR BY ANY OTHER MEANS. CONTAINMENT AND DISPOSAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
24. SEVERITY OF SULFATE EXPOSURE SHALL BE CLASS 2 FOR THIS PROJECT. THE CONTRACTOR MAY, AT HIS OWN EXPENSE, HAVE A CERTIFIED LABORATORY TEST THE SUBGRADE PER THE FIELD MATERIALS MANUAL. TESTING SHALL BE AT THE SAME SCHEDULE AND FREQUENCY AS REQUIRED FOR A PRELIMINARY SOIL SURVEY. THE CONTRACTOR MAY PROPOSE A DIFFERENT CLASS OF SULFATE EXPOSURE FOR THE PROJECT BASED ON THOSE TEST RESULTS.
25. ASPHALT JOINTS SHALL FALL ON LANE LINES, SHOULDER LINES OR MEDIAN LINES, EXCEPT WHERE STATED IN THE PLANS.
26. PRIOR TO PLACING BITUMINOUS PAVEMENT, THE PAVED SURFACE SHALL BE SWEEP AND CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE HOT MIX ASPHALT PAVEMENT ITEM.
27. WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER. SAW CUTTING ASPHALT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF ASPHALT MAT.
28. HMA PATCHING SHALL BE TO THE DEPTH OF THE SURROUNDING EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. ALL LIFTS SHALL CONFORM TO THE REQUIREMENTS OF HMA (GRADING SX) (75) (PG 76-28). THE MINIMUM AND MAXIMUM LIFT THICKNESSES SHALL BE 2 AND 3 INCHES, RESPECTIVELY, FOR HMA (GRADING SX) (75) (PG 76-28). THE THICKNESS OF EACH LIFT SHALL BE LESS THAN OR EQUAL TO THE THICKNESS OF LIFT DIRECTLY BENEATH IT. TOP MAT SHALL BE FLUSH WITH TOP OF PAN.
29. PCCP ACCEPTANCE SHALL UTILIZE COMPRESSIVE STRENGTH CRITERIA.
30. PRIOR TO PLACING THE HMA PAVEMENT, THE PAVED SURFACE SHALL BE SWEEP AD CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF WORK.

**SECTION 600**

31. MAINTENANCE OF THE SANITARY FACILITY SHALL INCLUDE A MINIMUM CLEANING SCHEDULE OF AT LEAST TWICE PER WEEK. THIS WILL BE SUBSIDIARY TO THE PAY ITEM FOR SANITARY FACILITY AND WILL NOT BE PAID FOR SEPARATELY.
32. THIS PROJECT IS CLASSIFIED AS "NON-SIGNIFICANT". CONTRACTOR'S TRANSPORTATION MANAGEMENT PLAN SHALL CONSIST OF A TRAFFIC CONTROL PLAN.

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Print Date: 6/27/2022 File Name: 22552DES_GeneralNotes01.dgn Horiz. Scale: 1:1 Unit Information  5690 DTC Boulevard, Suite 330W Greenwood Village, CO 80111 Phone: 303-221-2330 Fax: 303-221-2331 www.stofusandassociates.com	<b>Sheet Revisions</b>			 Colorado Department of Transportation 2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007 <b>Region 1</b>	 City of Thornton 9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226	As Constructed	GENERAL NOTES			Project No./Code
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	Revised:	Designer: BTT	Structure Numbers			22552				
	Void:	Detailer: BTT	Subset Sheets: 01 of 02			Sheet Number	3			

33. ANY CURB, GUTTER, SIDEWALK, AND / OR ASPHALT WHICH IS TO REMAIN AND IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

34. CONCRETE FOR CURB, GUTTER, AND SIDEWALK SHALL BE CLASS B. CONCRETE FOR PAVEMENT SHALL BE CLASS P.

**MISCELLANEOUS**

35. THE FOLLOWING ITEMS SHALL BE PAID FOR AS:

ITEM CODE	ITEM	UNIT	QTY
201-00000	CLEARING AND GRUBBING	LS	1
203-01597	POTHOLING	HR	20
240-00000	WILDLIFE BIOLOGIST	HR	16
240-00100	PRAIRIE DOG MANAGEMENT	LS	1
625-00000	CONSTRUCTION SURVEYING	LS	1
626-00000	MOBILIZATION	LS	1

36. EXCEPT WHERE OTHERWISE PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, ALL CONSTRUCTION SHALL BE PER THE 2019 OR MOST CURRENT CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ALL APPLICABLE CDOT STANDARD AND PROJECT SPECIAL PROVISIONS.

37. ALL WORK SHALL BE COMPLETED ENTIRELY WITHIN THE EXISTING RIGHT OF WAY AND EASEMENTS AS DEFINED IN THE PLANS.

38. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK IN FRONT OF THEIR PROPERTY. ACCESS MUST BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES.

39. THE CITY OF THORNTON WILL PROVIDE MATERIALS TESTING DURING CONSTRUCTION. CONTRACTOR MUST PROVIDE A MINIMUM OF TWO (2) BUSINESS DAYS NOTICE TO THORNTON AND THORNTON'S REPRESENTATIVE TO SCHEDULE ANY REQUIRED FIELD INSPECTIONS OR TESTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYING FOR ANY RETESTING REQUIRED AS A RESULT OF FAILED TESTS. THE CITY WILL NOT PROVIDE MATERIAL TESTING RELATED TO SUBMITTALS.

40. ALL PARKS, SIDEWALKS, AND TRAILS SHALL REMAIN OPEN AT ALL TIMES. ADDITIONALLY, CONSTRUCTION ACTIVITIES SHALL NOT IMPACT ACCESS TO THESE PROPERTIES.

41. THE CONTRACTOR SHALL KEEP FARMER'S HIGH LINE CANAL TRAIL OPEN TO USERS DURING CONSTRUCTION, UTILIZING SIGNS AND A DETOUR AS NECESSARY.

42. ANY FIELD OFFICE OR FIELD LABORATORY COSTS SHALL NOT BE PAID FOR SEPARATELY AND ARE INCLUDED IN THE COST OF THE WORK.

**ENVIRONMENTAL**

43. SHOULD EXCAVATIONS PENETRATE ROCK / SEDIMENT TO A DEPTH OF GREATER THAN THREE METERS, IT IS RECOMMENDED THAT A QUALIFIED PALEONTOLOGIST BE ONSITE TO EXAMINE ALL DISTURBED SURFICIAL SEDIMENT PRIOR TO PAVING ACTIVITY. IF PALEONTOLOGICAL RESOURCES ARE UNCOVERED DURING PROJECT CONSTRUCTION, THE CDOT STAFF PALEONTOLOGIST, SHOULD BE NOTIFIED IMMEDIATELY, AND THE PROCEDURES OUTLINED IN CDOT SPECIFICATION 107.23 WILL BE FOLLOWED.

44. THERE SHALL BE NO PARKING, STAGING, OR WORK IN AREAS WITH ACTIVE PRAIRIE DOG BURROWS. AT NO TIME WILL EARTH-MOVING ACTIVITIES RESULT IN THE BURYING OF LIVING PRAIRIE DOGS.

45. THE CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT (MBTA) AT ALL TIMES, INCLUDING CONDUCTING PRE-CONSTRUCTION SURVEYS FOR NESTING BIRDS SET FORTH BY THE U.S. FISH AND WILDLIFE SERVICE (USFWS) AND THE COLORADO PARKS AND WILDLIFE (CPW) BY A QUALIFIED BIOLOGIST, AS PER CDOT SPECIFICATION 240. THE INCIDENTAL TAKE OF A MIGRATORY BIRD SHALL BE REPORTED TO THE ENGINEER. DOCUMENTATION OF THE NEST SURVEYS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. IF AN ACTIVE NEST IS LOCATED IN OR NEAR THE PROJECT AREA, THE CPW SHALL BE CONTACTED REGARDING THE USE OF SEASONAL PROTECTIVE BUFFERS TO PREVENT DISTURBANCE TO NESTING BIRDS DURING CONSTRUCTION.

46. THERE ARE NO TREE REMOVALS ANTICIPATED FOR THIS PROJECT.

**UTILITIES**

47. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENT") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITIES.

48. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THE ACHIEVED QUALITY LEVEL (D) AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING CONSTRUCTION.


49. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.

50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO ENSURE THAT THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS TO BE ONSITE DURING POTHOLING. IF EXISTING UTILITIES ARE WITHIN CLOSE PROXIMITY HORIZONTALLY OR VERTICALLY TO PROPOSED INSTALLATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER. ANY EXISTING UTILITY, WHICH IS TO REMAIN BUT IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

51. THE UTILITY CONTACTS FOR THE PROJECT ARE AS FOLLOWS:

UTILITY	CONTACT/EMAIL	PHONE
CENTURYLINK FIBER AND TELEPHONE	JUSTIN CHELKO JUSTIN.CHELKO1@LUMEN.COM JUSTIN METZLER JMETZLER@TERRATECHLLC.NET	303-525-7086 (CELL)
COMCAST FIBER AND CABLE	MARCO POVIS MARCO_POVISR@COMCAST.COM	720-495-7506 (CELL)
XCEL ENERGY GAS & ELECTRIC	BRANDA SLOAN BRANDA.L.SLOAN@XCELENERGY.COM	720-354-2000 (CELL) 720-628-2276
CITY OF THORNTON WATER	STEVE CROW STEVE.CROW@CITYOFTHORNTON.NET	720-977-6554
CITY OF THORNTON TRAFFIC	EDWARD SANCHEZ EDWARD.SANCHEZ@CITYOFTHORNTON.NET	720-977-6477
CITY OF THORNTON SANITARY AND STORM SEWER	JOE ROMERO JOE.ROMERO@CITYOFTHORNTON.NET	720-977-6392
ADAMS 12 FIVE STAR SCHOOLS FIBER	PERRY MOVICK MOV024573@ADAMS12.ORG KEN DIXON KDIXON@HENKELS.COM	720-933-9982 (CELL) 303-514-2913 (CELL)

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Print Date: 12/6/2022  
 File Name: 22552DES\_GeneralNotes02.dgn  
 Horiz. Scale: 1:1  
 Unit Information  
 5690 DTC Boulevard, Suite 330W  
 Greenwood Village, CO 80111  
 Phone: 303-221-2330  
 Fax: 303-221-2331  
 www.stofusandassociates.com

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
  
 Region 1  
 2829 W. Howard Place  
 Denver, CO 80204  
 Phone: 303-757-9007

City of Thornton  
  
 9500 Civic Center Dr  
 Thornton, CO 80229  
 Phone: 720-977-6226


As Constructed
No Revisions:
Revised:
Void:

GENERAL NOTES	
Designer: BTT	Structure Numbers
Sheet Subset: GEN NOTES	
Subset Sheets: 02 of 02	



Project No./Code	SAR M286-046
Sheet Number	4

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY														PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.															PLAN
			201-00000	Clearing and Grubbing	L S	1															1	
			202-00201	Removal of Curb	LF	22															22	
			202-00203	Removal of Curb and Gutter	LF	119															119	
			202-00210	Removal of Concrete Pavement	SY	123															123	
			202-00220	Removal of Asphalt Mat	SY	77															77	
			202-00250	Removal of Pavement Marking	SF	40															40	
			203-00010	Unclassified Excavation (Complete In Place)	CY	100															100	
			203-01597	Potholing	HOURL	20															20	
			207-00700	Topsoil (Onsite)	CY	10															10	
			208-00012	Erosion Log Type 1 (9 Inch)	LF	2,360															2,360	
			208-00035	Aggregate Bag	LF	130															130	
			208-00045	Concrete Washout Structure	EACH	2															2	
			208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	EACH	1															1	
			208-00057	Storm Drain Inlet Protection (Type I) (144 Inch)	EACH	2															2	
			208-00106	Sweeping (Sediment Removal)	HOURL	3															3	
			208-00107	Removal of Trash	HOURL	1.5															1.5	
			210-00060	Reset Marker	EACH	1															1	
			210-00810	Reset Ground Sign	EACH	7															7	
			210-04010	Adjust Manhole	EACH	1															1	
			212-00701	Compost (Mechanically Applied)	CY	3															3	
			212-00703	Humate	LB	2															2	
			212-00708	Seeding (Native) Broadcast	ACRE	0.01															0.01	
			212-01200	Landscape Restoration	LS	1															1	
			216-00101	Soil Retention Blanket (Straw-Coconut) (Photodegradable Class 1)	SY	49															49	
			240-00000	Wildlife Biologist	HOURL	16															16	
			240-00100	Prairie Dog Management	L S	1															1	
			304-06004	Aggregate Base Course (Class 6)	SY	195															195	
			403-00721	Hot Mix Asphalt (Patching) (Asphalt)	SY	77															77	
			412-00190	Concrete Pavement (Patching)	SY	118															118	
			503-00018	Drilled Shaft (18 Inch)	LF	32															32	
			506-00010	Riprap (Special)	CY	0.5															0.5	
			605-82200	6" French Drain	LF	58															58	
			608-00000	Concrete Sidewalk	SY	1,045															1,045	

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 Unit Information  
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 Phone: 720-977-6226


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SUMMARY OF APPROXIMATE QUANTITIES			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	SAQ	Subset Sheets:	01 of 02

Project No./Code	SAR M286-046
	22552
Sheet Number	5

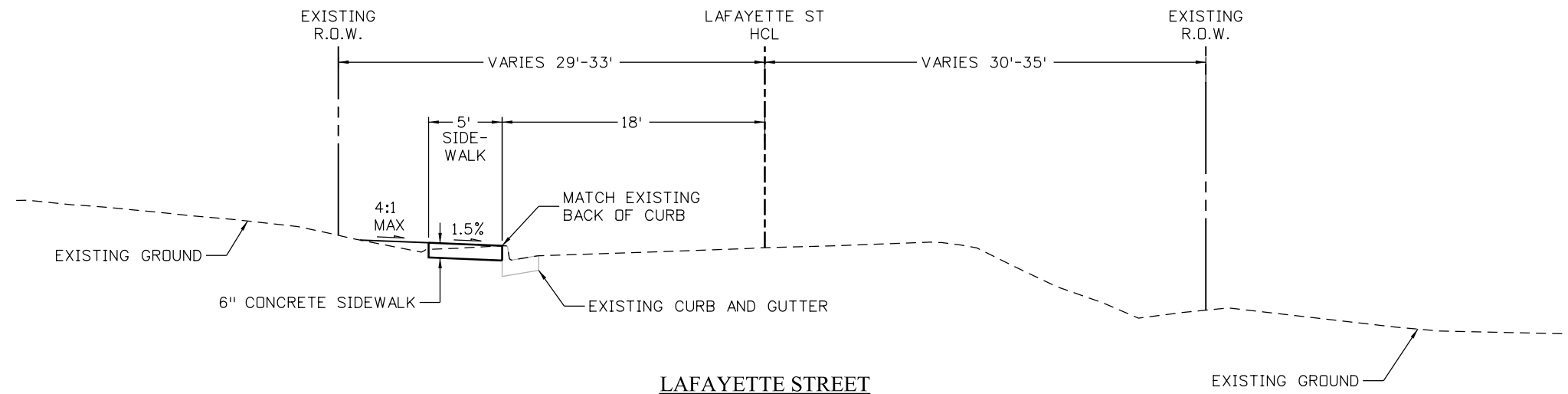
INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY																	PROJECT TOTALS			
BOOK	PAGE	SHEET				PLAN	AS CONST.																			PLAN
			608-00010	Concrete Curb Ramp	SY	195																			195	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	50																			50	
			610-00020	Median Cover Material (Patterned Concrete)	SF	133																			133	
			614-00011	Sign Panel (Class I)	SF	26																			26	
			614-00012	Sign Panel (Class II)	SF	50																			50	
			614-00214	Steel Sign Post (1.75X1.75 Inch Tubing)	LF	435																			435	
			614-80001	Flashing Beacon (Solar Powered)	EACH	4																			4	
			614-80003	Rectangular Rapid Flashing Beacon	EACH	2																			2	
			625-00000	Construction Surveying	L S	1																			1	
			626-00000	Mobilization	L S	1																			1	
			627-30411	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line) (Special)	SF	523																			523	
			630-00000	Flagging	HOUR	350																			350	
			630-00007	Traffic Control Inspection	DAY	18																			18	
			630-00012	Traffic Control Management	DAY	42																			42	
			630-80340	Pedestrian Barricade (Ada)	LF	20																			20	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	12																			12	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	4																			4	
			630-80360	Drum Channelizing Device	EACH	30																			30	
			630-80380	Traffic Cone	EACH	50																			50	
			700-70010	F/A Minor Contract Revisions (10%)	F A	1																			1	
			700-70016	F/A Fuel Cost Adjustment	F A	1																			1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A	1																			1	

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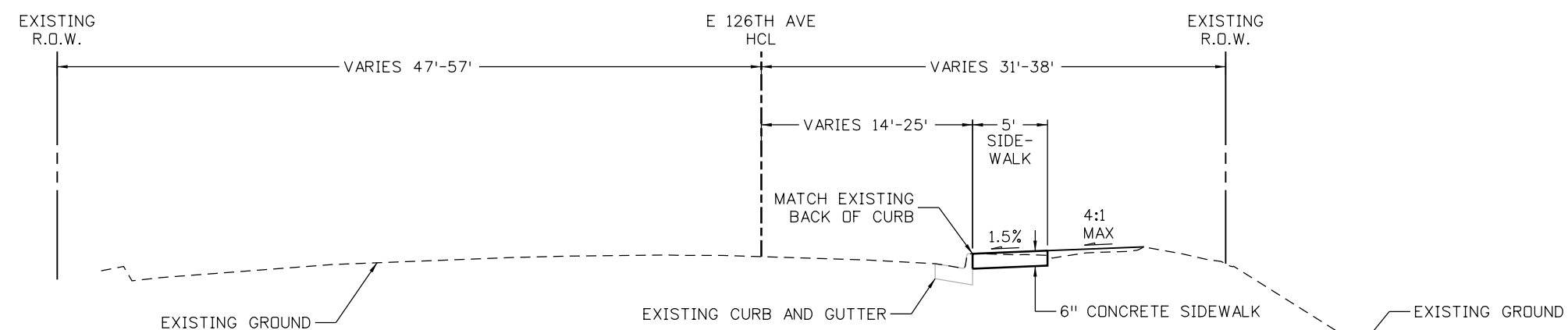
Print Date: 12/29/2022 File Name: 22552DES_SAQ02.dgn Horiz. Scale: 1:1 Unit Information  5690 DTC Boulevard, Suite 330W Greenwood Village, CO 80111 Phone: 303-221-2330 Fax: 303-221-2331 www.stofusandassociates.com	<b>Sheet Revisions</b> <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date:	Comments	Init.													 <b>Colorado Department of Transportation</b> 2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007 <b>Region 1</b>	 <b>City of Thornton</b> 9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226	<b>As Constructed</b> No Revisions:	<b>SUMMARY OF APPROXIMATE QUANTITIES</b> Designer: BTT Detailer: BTT Sheet Subset: SAQ Subset Sheets: 02 of 02	Project No./Code SAR M286-046
	Date:	Comments	Init.																				
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**LAFAYETTE STREET**  
 STA 2001+54.32 TO STA 2005+54.68  
 STA 2006+59.62 TO STA 2008+71.55



**E 126TH AVENUE**  
 STA 1001+96.47 TO STA 1006+75.54  
 STA 1007+57.96 TO STA 1014+53.93

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Sheet Revisions		
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Colorado Department of Transportation  

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Region 1

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TYPICAL SECTIONS			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	TYP SEC	Subset Sheets:	01 of 01

Project No./Code
SAR M286-046
22552
Sheet Number 7

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

Format \*

3D Design Modeling Electronic Files \_\_\_\_\_

Horizontal Control Plan Sheets \_\_\_\_\_

Vertical Control Plan Sheets \_\_\_\_\_

Roadway Alignment \_\_\_\_\_

Original Terrain Data Electronic Files \_\_\_\_\_

Other: \_\_\_\_\_

\* Specify the information format, i.e., 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  Major Reconstruction

Signalization  New Roadway Construction

Safety Improvement  Bridge Replacement

Asphalt Overlay  Bridge Widening

Concrete Overlay  New Bridge

Minor Widening  Other: Sidewalk/ADA Improvements

**SURVEY WORK TO BE PERFORMED BY OTHERS:** \_\_\_\_\_

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

- A complete passing Base Line report (completed within 6 months prior to the start of the project)
- An instrument calibration Certification (completed within 6 months prior to the start of the project)
- 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)

- 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: \_\_\_\_\_

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

- 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: \_\_\_\_\_

	(Y/N)	Interval	Special Offset
Pavements	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- 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: ADA Ramps

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
-	-	-	-

- 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)
  - Permanent Water Quality BMP (Section 208)
  - Other: \_\_\_\_\_

Stationing	Left Interval	Center Interval	Right Interval
-	-	-	-

- 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: \_\_\_\_\_

- Pavement Marking (Section 627)
  - Stripping (Temp)
  - Stripping (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: \_\_\_\_\_
- All 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: \*\* SW Corner 126th/Lafayette
  - 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 CDDT 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 \_\_\_\_\_ 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 (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, 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): Reference Monument Ties \_\_\_\_\_
11. The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
  - All required Instrument Calibrations

Print Date: 6/27/2022

File Name: 22552SURV\_Tab

Horiz. Scale: 1:1      Vert. Scale: As Noted

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Colorado Department of Transportation

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City of Thornton

Region 1

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Thornton, CO 80229  
Phone: 720-977-6226

As Constructed	SURVEY TABULATION SHEET			Project No./Code
No Revisions:				SAR M286-046
Revised:	Designer: BTT	Structure Numbers		22552
Void:	Detailer: BTT	Sheet Subset: SURVTAB	Subset Sheets: 01 of 01	Sheet Number 8





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Land Survey Control Diagram			
Title Sheet			
CDOT Project Number: SAR M286-046			
Project Location: 126th Ave. and Lafayette Street			
CITY OF THORNTON, ADAMS COUNTY COLORADO			
Project Code	Last Mod. Date	Subset	Sheet No.
22552	01-05-2021	4.01 of 4.04	4.01

# CITY OF THORNTON ADAMS COUNTY STATE OF COLORADO LAND SURVEY CONTROL DIAGRAM

PROJECT NO. SAR M286-046 PROJECT CODE 22552  
126th Avenue From Ogden Street to Lafayette Street  
in the Northwest Quarter of Section 35  
Township 1 South, Range 68 West  
of the 6th Principal Meridian.

SHEET NO.	INDEX OF SHEETS
4.01	(1) TITLE SHEET
4.02 - 4.03	(2) MONUMENT COORDINATE TABLES
4.04	(1) PLAN SHEET
	(4) TOTAL SHEETS

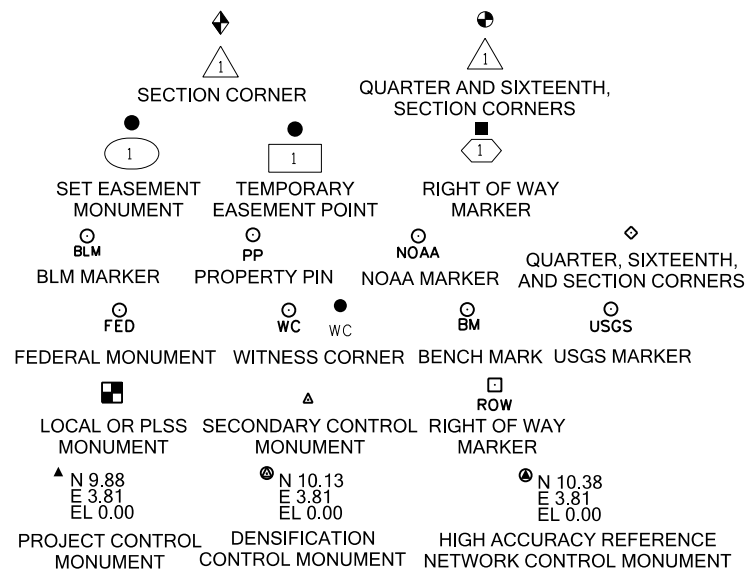
**BASIS OF BEARINGS:** BEARINGS USED IN THE CALCULATIONS OF COORDINATES ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 35, TOWNSHIP 1 SOUTH, RANGE 68 WEST OF THE SIXTH P.M. AND BEING A GRID BEARING NORTH 89°55'57" EAST, A DISTANCE OF 2647.00 FEET, THE SURVEY DATA WAS OBTAINED FROM A GLOBAL POSITIONING SYSTEM (GPS) SURVEY BASED ON THE COLORADO HIGH ACCURACY REFERENCE NETWORK (CHARN) COLORADO STATE PLANE NORTH ZONE (501) NAD '83/(2011). - SEE SHEET 4.02 FOR MONUMENT DESCRIPTIONS.

**BASIS OF ELEVATIONS:** ALL ELEVATIONS SHOWN HERE ON ARE BASED ON THE CITY OF THORNTON BENCHMARK 126-30. THE PUBLISH ELEVATION FOR SAID BENCHMARK IS 5311.39' ABOVE SEA LEVEL. (NAVD 88) THE LOCATION OF THIS MARK IS AS FOLLOWS: THE TOP OF THE NORTH MOST BOLT ON THE WEST SIDE OF THE BASE OF THE FIRST POWER TOWER SOUTH OF 126TH AVENUE ON THE EAST SIDE OF WASHINGTON STREET. THE BOLT IS MARKED WITH A CHISELED PLUS. ELEVATIONS ON THE ESTABLISHED CONTROL POINTS WERE ESTABLISHED BY DIFFERENTIAL LEVELS FROM THE POINT ABOVE. THE ESTABLISHED CONTROL WILL MEET OR EXCEED CDOT CLASS A PRIMARY CONTROL STANDARDS.

**COORDINATE DATUM:** PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE NORTH ZONE (501) NAD '83/(2011) COORDINATES. THE COMBINED ELEVATION/SCALE FACTOR USED TO MODIFY THE COORDINATES FROM STATE PLANE TO PROJECT COORDINATES IS 1.0002768842. THE RESULTING PROJECT COORDINATES ARE TRUNCATED BY 1,000,002.18 SFT IN THE NORTHING AND 3,000,005.65 SFT IN THE EASTING AFTER CONVERTING FROM STATE PLANE COORDINATES TO PROJECT COORDINATES. THE CHARN IS BASED ON THE NAD '83(2011) DATUM.

PROJECT COORDINATES NORTHING US SURVEY FEET =  
(STATE PLANE COORDINATE NORTHING \* 1.0002768842 - 1,000,002.18 SFT)  
PROJECT COORDINATES EASTING US SURVEY FEET =  
(STATE PLANE COORDINATE EASTING \* 1.0002768842 - 3,000,005.65 SFT)  
NOTE: 1 U.S. SURVEY FOOT IS EQUAL TO 3937 / 1200 METERS.

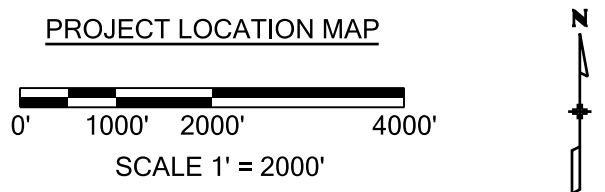
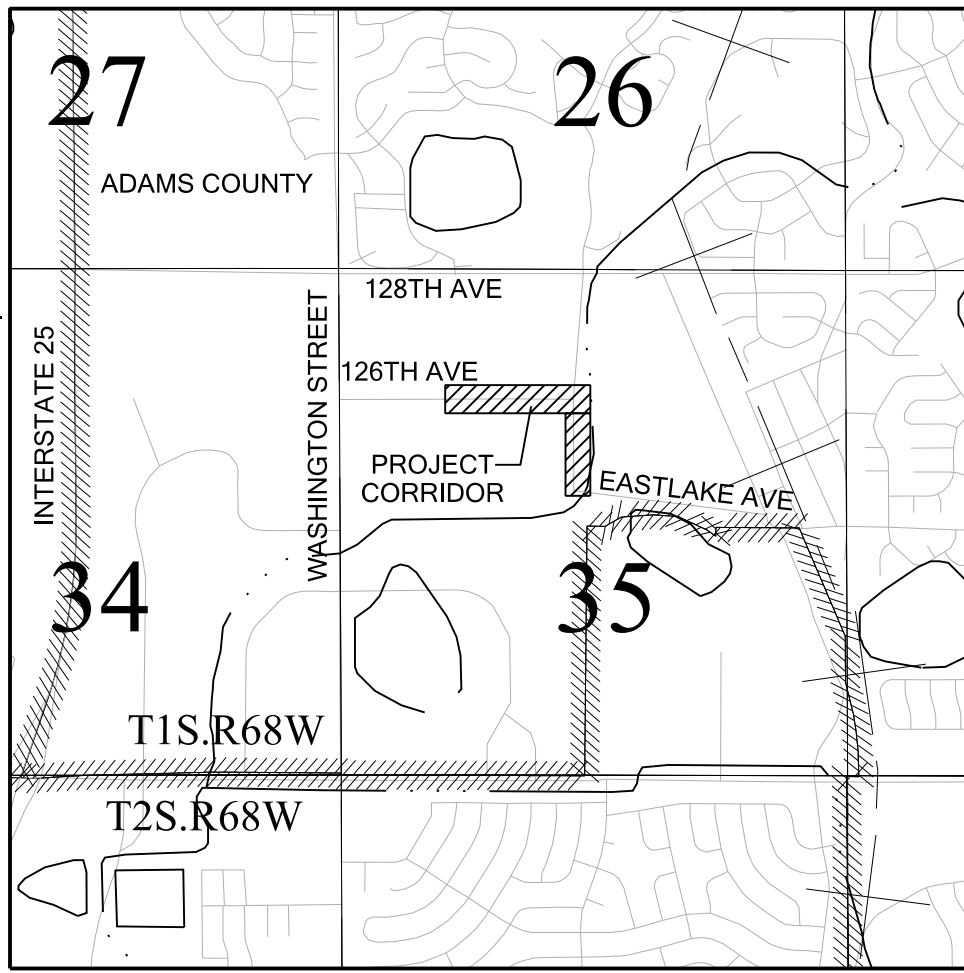
**NOTICE:** ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.



NOTE: FOR A COMPLETE LISTING OF SYMBOLOGY USED WITHIN THIS SET OF PLANS, PLEASE REFER TO THE M-100-1 STANDARD SYMBOLS OF THE COLORADO DEPARTMENT OF TRANSPORTATION M&S STANDARDS PUBLICATION DATED JULY 2012. EXISTING FEATURES ARE SHOWN AS SCREENED WEIGHT (GRAY SCALE). PROPOSED OR NEW FEATURES ARE SHOWN AS FULL WEIGHT WITHOUT SCREENING.

**GENERAL NOTES:**

- THIS LAND SURVEY CONTROL DIAGRAM IS NOT A BOUNDARY SURVEY OF THE ADJOINING PROPERTY AND IS PREPARED FOR THE CITY OF THORNTON PURPOSES ONLY. NO DETERMINATION HAS BEEN MADE TO DETERMINE IF THE FOUND MONUMENTS AS SHOWN ARE IN THEIR PROPER POSITION OR IF THEY ARE AT THE CORNERS THEY ARE INTENDED TO MONUMENT.
- TITLE POLICY, TITLE COMMITMENT, AND TITLE RESEARCH ARE NOT PART OF THIS SURVEY, THEREFORE EASEMENTS, RIGHTS, AND RESTRICTIONS OF RECORD WERE NOT RESEARCHED AND ARE NOT SHOWN ON THIS DIAGRAM. THE VERIFICATION OF THE PHYSICAL EVIDENCE WITH RELATION TO EASEMENTS, RIGHTS OF WAYS, PROPERTY BOUNDARIES, AND RESTRICTIONS, AS DESCRIBED IN THE INSTRUMENTS OF RECORD, WERE NOT INCLUDED IN THIS CONTROL SURVEY.
- THIS PLAN SET IS SUBJECT TO CHANGE AND MAY NOT BE THE MOST CURRENT SET. IT IS THE USER'S RESPONSIBILITY TO VERIFY WITH AZTEC CONSULTANTS INC. THAT THIS SET IS THE MOST CURRENT. THE INFORMATION CONTAINED ON THE ATTACHED DRAWING IS NOT VALID UNLESS THIS COPY BEARS AN ORIGINAL SIGNATURE OF THE PROFESSIONAL LAND SURVEYOR HEREON NAMED.
- REFER TO THE M-629-1 SURVEY MONUMENTS OF THE STANDARD PLANS DATED JULY, 2012 FOUND IN THE COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS FOR TYPICAL SURVEY MONUMENT DESCRIPTIONS.



SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, \_\_\_\_\_, a professional land surveyor licensed in the State of Colorado, do hereby state to the City of Thornton, this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. \_\_\_\_\_



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Land Survey Control Diagram			
Monument Coordinate Tables			
CDOT Project Number: SAR M286-046			
Project Location: 126th Ave. and Lafayette Street			
CITY OF THORNTON, ADAMS COUNTY COLORADO			
Project Code	Last Mod. Date	Subset	Sheet No.
22552	01-05-2021	4.02 of 4.04	4.02

**GEODETTIC COORDINATE SUMMARY TABLE**

Point No.	Geodetic Coordinates NAD-83(2011) (CHARN)		Elipsoid Height (sft)	COLORADO STATE PLANE COORDINATES (ZONE 501) NAD-83(2011)		Elevation NAVD 88	Description
	Latitude(N)	Longitude(W)		Northing (sft)	Easting (sft)		
* S411	N39°54'34.93500"	W105°01'30.68151"	5229.12	1210311.15	3133195.41	5285.57	NGS PID KK1411 - 1/2" STAINLESS STEEL ROD IN RANGE BOX, DOWN 0.3' BOX STAMPED "S411 1984"
* EASTLAKE	N39°56'31.98133"	W104°57'32.14615"	5171.97	1222260.91	3151710.34	5229.46	NGS PID AB3296 - 3" BRASS CAP FLUSH IN CONCRETE STAMPED IN PART " EAST LAKE"
* RIVERDALE	N39°53'06.13689"	W104°55'36.31409"	5042.631	1201489.36	3160866.55	5042.63	NGS PID AB3301 - 3" BRASS CAP FLUSH IN CONCRETE STAMPED IN PART " RIVERDALE"
1	N39°55'24.85118"	W104°58'05.03054"	5239.66	1215452.87	3149189.89	5296.93	FOUND 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 1"
2	N39°55'27.49106"	W104°58'39.87809"	5254.24	1215703.84	3146473.47	5311.39	FOUND BENCHMARK 126-30 (CITY OF THORNTON CONTROL) CUT X IN NORTHWEST BOLT OF POWER TOWER
50	N39°55'22.16896"	W104°58'07.55911"	5248.43	1215180.29	3148994.52	5305.69	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 50"
51	N39°55'27.37225"	W104°58'07.55314"	5236.73	1215706.78	3148991.83	5294.00	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 51"
52	N39°55'29.66811"	W104°58'10.57661"	5234.99	1215937.68	3148754.90	5292.26	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 52"
53	N39°55'29.70604"	W104°58'17.37809"	5239.48	1215938.35	3148225.01	5296.72	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 53"
54	N39°55'30.11204"	W104°58'24.14279"	5240.23	1215976.30	3147697.76	5297.44	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 54"

\*INDICATES PRIMARY SURVEY CONTROL MONUMENT OUTSIDE PROJECT CORRIDOR AND NOT SHOWN ON SHEET 4.04. THESE POINTS WERE UTILIZED TO ESTABLISHED ON SITE PROJECT CONTROL.

**PROJECT COORDINATE TABLE**

Point No.	Project Coordinates		Elevation (ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
* S411	210644.080	134057.290	5285.57	NGS PID KK1411 - 1/2" STAINLESS STEEL ROD IN RANGE BOX, DOWN 0.3' BOX STAMPED "S411 1984"
* EASTLAKE	222597.160	152577.350	5229.46	NGS PID AB3296 - 3" BRASS CAP FLUSH IN CONCRETE STAMPED IN PART " EAST LAKE"
* RIVERDALE	201819.860	161736.090	5042.63	NGS PID AB3301 - 3" BRASS CAP FLUSH IN CONCRETE STAMPED IN PART " RIVERDALE"
1	215787.23	150056.20	5296.93	FOUND 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 1"
2	216038.27	147339.03	5311.39	FOUND BENCHMARK 126-30 (CITY OF THORNTON CONTROL) CUT X IN NORTHWEST BOLT OF POWER TOWER
50	215514.57	149860.78	5305.69	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 50"
51	216041.21	149858.09	5294.00	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 51"
52	216272.17	149621.09	5292.26	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 52"
53	216272.85	149091.05	5296.72	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 53"
54	216310.80	148563.66	5297.44	SET 2 1/2" ALUMINUM CAP, ON 5/8" DIA. REBAR, FLUSH WITH GROUND, STAMPED IN PART "AZTEC CP 54"

**FOUND ALIQUOT MONUMENT COORDINATE TABLE**

Point No.	Northing(ft)	Easting(ft)	Location	Description
200	217571.94	147270.56	NORTHWEST CORNER, SECTION 35, T. 1 S. R. 68 W., 6TH P.M.	FOUND 3-1/4" DIA. ALUM. CAP ON 3/4" REBAR, DOWN 0.35' IN RANGE BOX, STAMPING IS ILLEGIBLE
201	217575.06	149917.56	NORTH QUARTER CORNER, SECTION 35, T. 1 S. R. 68 W., 6TH P.M.	FOUND 3-1/4" DIA. ALUM. CAP ON 3/4" REBAR, DOWN 0.3' IN RANGE BOX, STAMPED IN PART PLS 10717
202	214927.10	147297.07	WEST QUARTER CORNER, SECTION 35, T. 1 S. R. 68 W., 6TH P.M.	FOUND 3-1/4" DIA. ALUM. CAP ON 2 1/2" DIAMETER IRON PIPE, DOWN 0.55' IN RANGE BOX, STAMPED IN PART, "PLS 24965"
203	214931.08	149939.93	CALCULATED POSTION BASED ON WITNESS CORNER AT CENTER 1/4	FOUND 3-1/4" DIA. ALUM. CAP ON 3/4" REBAR, FLUSH WITH SURFACE, STAMPED IN PART PLS 26600 2003 - 2' WITNESS CORNER - C-1/4 SECTION 35
204	216248.10	149928.82	CENTER - NORTH SIXTEENTH CORNER, SECTION 35, T. 1 S. R. 68 W., 6TH P.M.	FOUND 3-1/4" DIA. ALUM. CAP ON 2" DIAMETER IRON PIPE, DOWN 0.5' IN RANGE BOX, STAMPED IN PART, MOSTLY ILLEGIBLE

\*INDICATES PRIMARY SURVEY CONTROL MONUMENT OUTSIDE PROJECT CORRIDOR AND NOT SHOWN ON SHEET 4.04. THESE POINTS WERE UTILIZED TO ESTABLISHED ON SITE PROJECT CONTROL.



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Land Survey Control Diagram			
Monument Coordinate Tables			
CDOT Project Number: SAR M286-046			
Project Location: 126th Ave. and Lafayette Street			
CITY OF THORNTON, ADAMS COUNTY COLORADO			
Project Code	Last Mod. Date	Subset	Sheet No.
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FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
300	216291.46	148506.17	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
301	216296.44	148506.12	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
303	216296.64	148676.79	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
304	216291.70	148769.60	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
305	216292.90	149794.41	Found 1-1/2" Aluminum Cap on 5/8" rebar, flush with surface, Stamped "PLS 16406 FLATIRONS SURV"
306	216208.28	149795.08	Found 1-1/4" Yellow Plastic Cap on 5/8" rebar, flush with surface, Stamped "PLS 24949"
307	216854.28	147352.77	Found Bent 5/8" rebar, flush with surface, no cap
308	216854.56	147649.26	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
309	216854.48	147942.22	Found 1" Brass Tag, flush with surface, Stamped "JR ENG PLS 38252"
310	216399.99	148002.13	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
311	216459.93	147942.12	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
312	216486.11	147942.15	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
313	216485.40	147903.13	Found Bent 5/8" rebar, flush with surface, no cap
314	216485.86	147902.99	Found Bent 3/8" rebar, flush with surface, no cap
315	216427.41	147903.32	Found 1-1/4" Pink Plastic Cap on 5/8" rebar, flush with surface, Stamped "JR ENG PLS 38252"
316	216427.85	147903.17	Found 1" Red Plastic Cap on 1/2" rebar, flush with surface, Stamped "PLS 28275"
317	216399.97	148476.20	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
318	216436.29	148476.14	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
319	216485.46	148453.69	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
320	216551.22	148377.66	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
321	216600.29	148355.18	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
322	216958.55	148354.78	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
323	216959.41	149133.58	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
324	216992.94	149167.09	Found 1" Brass Tag, flush with surface, Stamped "PLS 28275"
325	217513.89	149784.06	Found 1-1/4" Yellow Plastic Cap on 5/8" rebar, flush with surface, Stamped "PLS 26600"
326	215319.48	149866.55	Found 1-1/2" Brass Tag, flush with surface, Stamped "PLS 37889 KMA"
327	215259.56	149803.06	Found 1-1/4" Yellow Plastic Cap on 5/8" rebar, flush with surface, Stamped "PLS 24949"
328	215282.69	149936.87	Found 1-1/2" Aluminum Cap, flush with surface, Stamped "PLS 13212 LAMBERT"
329	215282.80	149936.99	Found Bent 3/8" rebar, flush with surface, no cap
330	216292.22	149167.84	Found Bent 1/2" rebar, flush with surface, no cap



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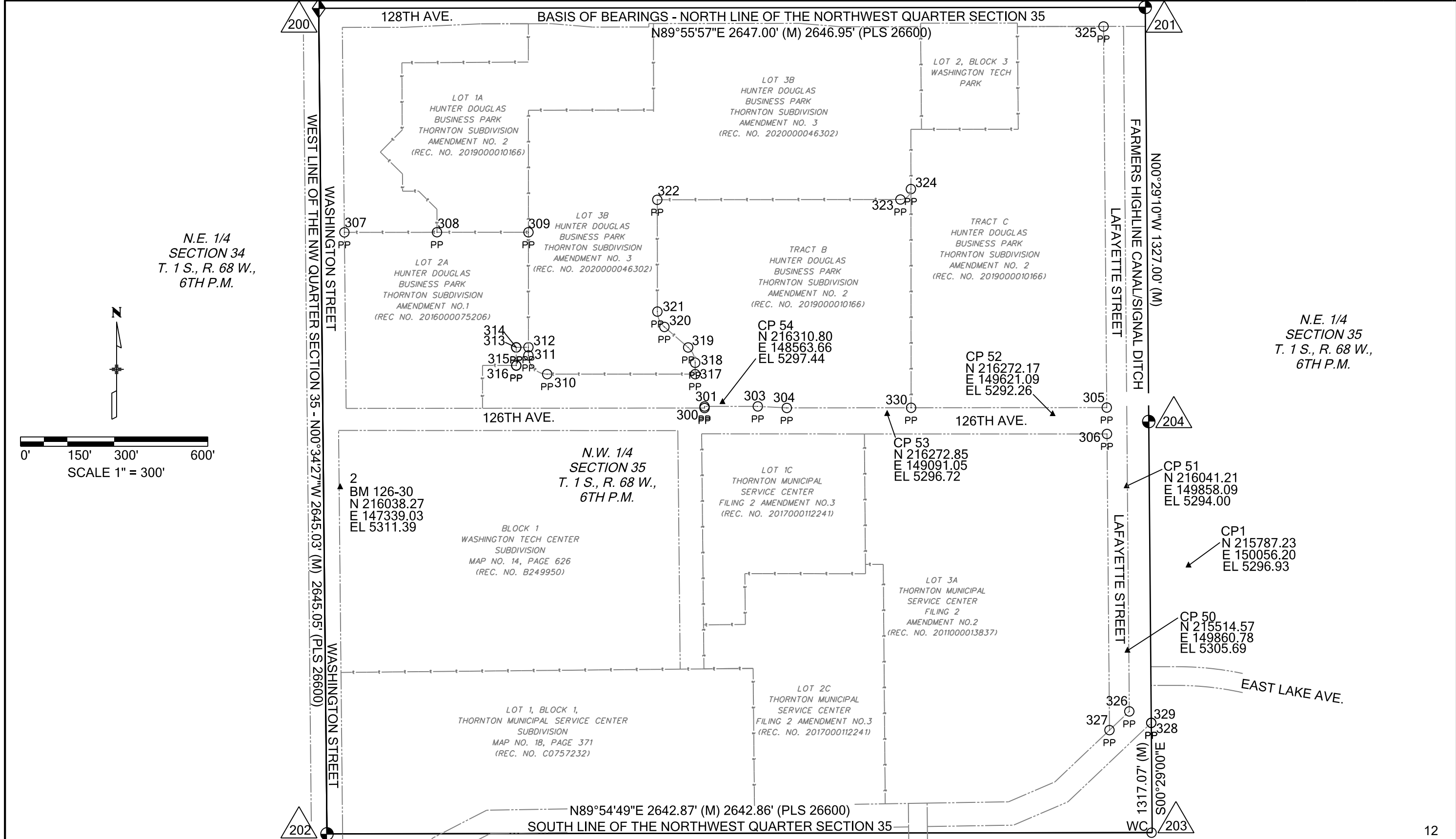
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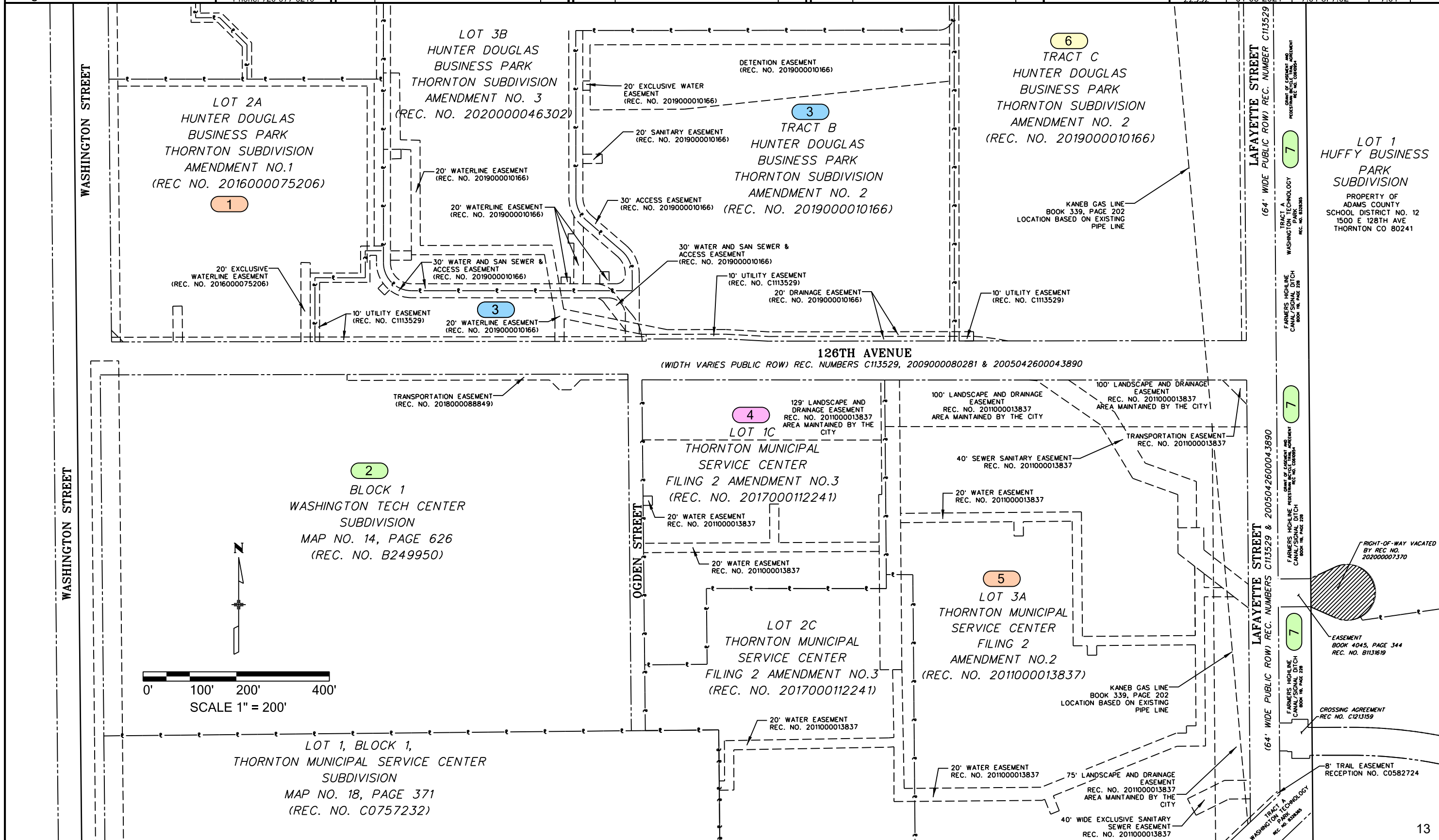


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Ownership Map

Plan Sheet

CDOT Project Number: SAR M286-046			
Project Location: 126th Ave. and Lafayette Street			
CITY OF THORNTON, ADAMS COUNTY COLORADO			
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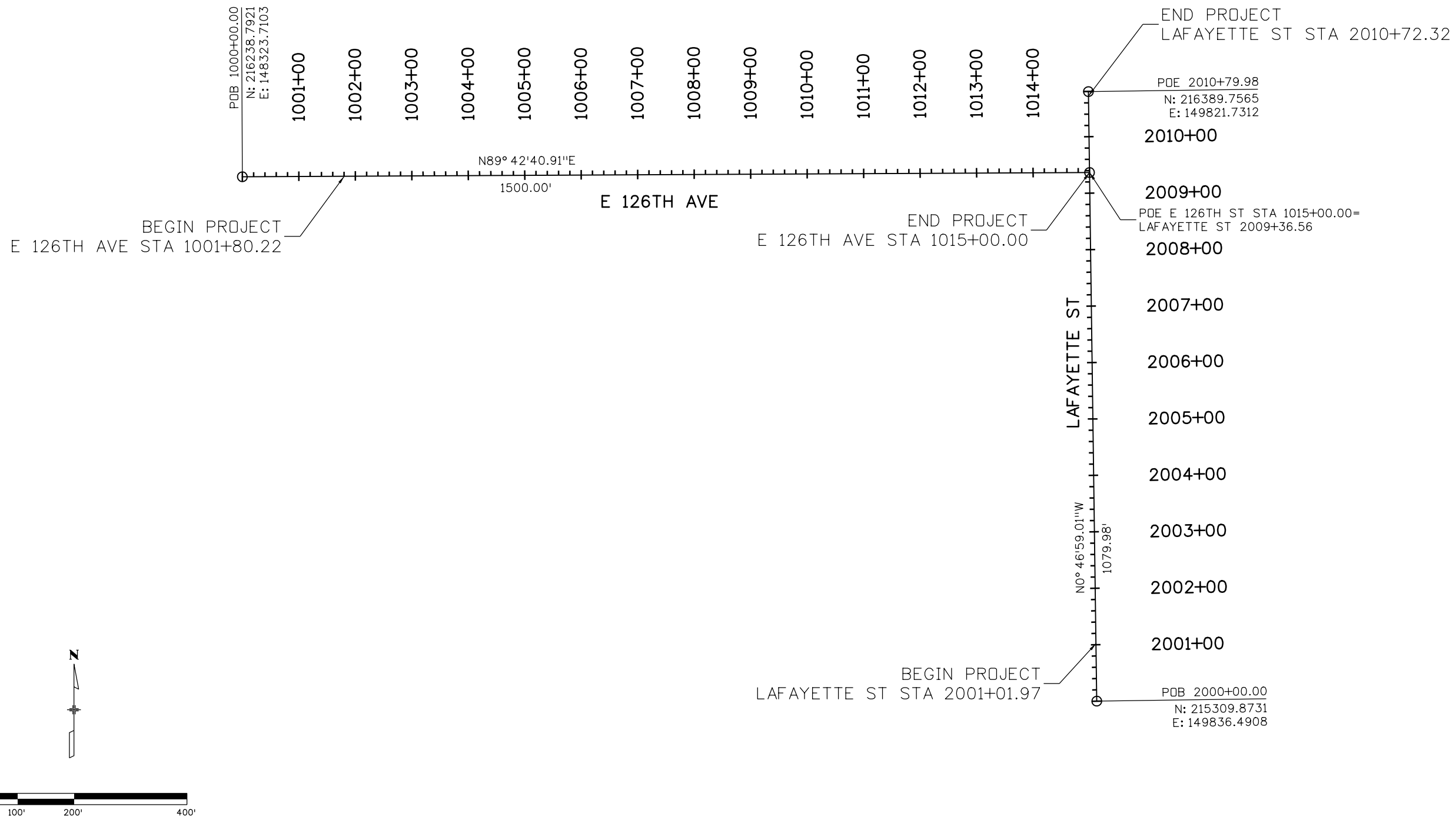
Ownership Map			
Tab Sheet			
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Project Code	Last Mod. Date	Subset	Sheet No.
22552	01-05-2021	7.02 of 7.02	7.02

**OWNERSHIP TABULATION**

NAME	OWNER	ADDRESS	ADAMS COUNTY ASSESSOR NUMBER
PARCEL 1	G AND G PROPERTY HOLDINGS INCC/O NORA ELLISON	12645 EMERSON ST THORNTON CO 80241-2404	R0190769
PARCEL 2	WESTGATE COMMUNITY SCHOOL BUILDING CORPORATION	12500 WASHINGTON ST THORNTON CO 80241-2404	R0025158
PARCEL 3	HUNTER DOUGLAS SPECIALTY PRODUCTS	12730 EMERSON ST THORNTON CO 80241-2404	R0201436
PARCEL 4	ADAMS 12 FIVE STAR SCHOOLS 50% INT AND CITY OF THORNTON 50% INT	NO PHYSICAL ADDRESS LISTED	R0193827
PARCEL 5	ADAMS 12 FIVE STAR SCHOOLS	NO PHYSICAL ADDRESS LISTED	R0179842
PARCEL 6	HUNTER DOUGLAS SPECIALTY PRODUCTS	NO PHYSICAL ADDRESS LISTED	R0201437
PARCEL 7	FARMERS RESERVOIR AND IRRIGATION CO	NO PHYSICAL ADDRESS LISTED	R0025155



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Unit Information
<b>Stofus</b>
5690 DTC Boulevard, Suite 330W Greenwood Village, CO 80111 Phone: 303-221-2330 Fax: 303-221-2331 www.stofusandassociates.com

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

**Region 1**

2829 W. Howard Place  
Denver, CO 80204  
Phone: 303-757-9007

**City of Thornton**

9500 Civic Center Dr  
Thornton, CO 80229  
Phone: 720-977-6226


<b>As Constructed</b>
No Revisions:
Revised:
Void:

GEOMETRIC CONTROL PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	GEO	Subset Sheets:	01 of 01



<b>Project No./Code</b>
SAR M286-046
22552
Sheet Number <b>15</b>

TABULATION OF REMOVALS																	
ROADWAY	STATION	SIDE	202-00201		202-00203		202-00210		202-00220		203-00010		210-00060		210-04010		REMARKS
			REMOVAL OF CURB		REMOVAL OF CURB AND GUTTER		REMOVAL OF CONCRETE PAVEMENT		REMOVAL OF ASPHALT MAT		UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)		RESET MARKER		ADJUST MANHOLE		
			LF		LF		SY		SY		CY		EACH		EACH		
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
E 126TH AVE	1001+80.22 TO 1004+00.00	RT															
E 126TH AVE	1001+82.07 TO 1001+94.99	RT			21				5								
E 126TH AVE	1004+00.00 TO 1009+00.00	RT															
E 126TH AVE	1004+81.55 TO 1005+21.32	RT			40												
E 126TH AVE	1006+75.54 TO 1006+92.76	RT	22														
E 126TH AVE	1007+03.33 TO 1007+35.59	RT							37								
E 126TH AVE	1007+35.69 TO 1007+86.15	RT					51										
E 126TH AVE	1009+00.00 TO 1014+00.00	RT													1		
E 126TH AVE	1010+88.76 TO 1010+98.76	RT			10												
LAFAYETTE ST	2001+01.97 TO 2005+00.00	LT															
LAFAYETTE ST	2001+15.12 TO 2001+15.96	LT			9												
LAFAYETTE ST	2001+45.75 TO 2001+52.27	LT			20				5								
LAFAYETTE ST	2005+00.00 TO 2010+72.32	LT										1					
LAFAYETTE ST	2005+74.11 TO 2005+94.19	LT					28										
LAFAYETTE ST	2005+94.19 TO 2006+20.66	LT							30								
LAFAYETTE ST	2006+20.66 TO 2006+40.74	LT					28										
LAFAYETTE ST	2008+71.55 TO 2008+90.42	LT			19												
LAFAYETTE ST	2009+13.08 TO 2009+25.12	LT					16										
<b>TOTALS</b>			22		119		123		77		100		1		1		

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 Horiz. Scale: 1:1  
 Unit Information  
 5690 DTC Boulevard, Suite 330W  
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Date:	Comments	Init.

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 Region 1  
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 Phone: 720-977-6226

As Constructed	TABULATION OF REMOVAL ITEMS	
No Revisions:	Designer: BTT	Structure Numbers
Revised:	Detailer: BTT	
Void:	Sheet Subset: TAB REM	Subset Sheets: 01 of 01

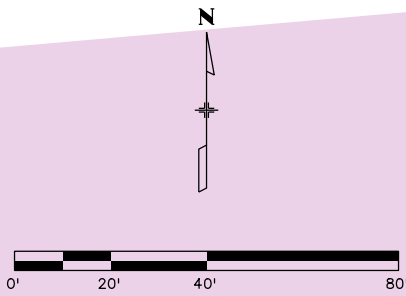
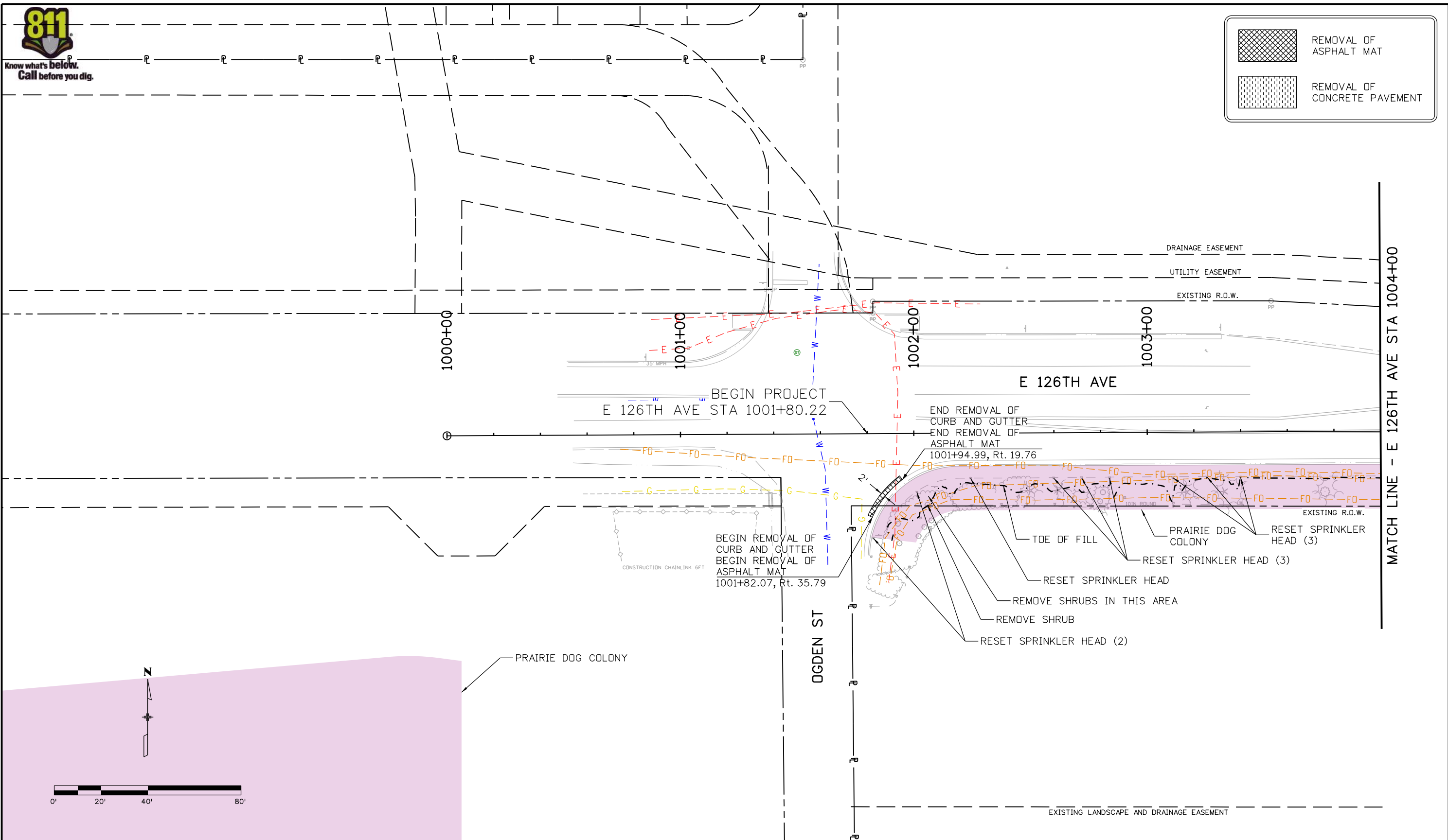
Project No./Code	SAR M286-046
	22552
Sheet Number	16





Know what's below.  
Call before you dig.

	REMOVAL OF ASPHALT MAT
	REMOVAL OF CONCRETE PAVEMENT



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Print Date: 6/27/2022
File Name: 22552DES_RemovalPlan01.dgn
Horiz. Scale: 1:40
Unit Information
5690 DTC Boulevard, Suite 330W Greenwood Village, CO 80111 Phone: 303-221-2330 Fax: 303-221-2331 www.stofusandassociates.com

Sheet Revisions		
Date:	Comments	Init.

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City of Thornton  
 9500 Civic Center Dr  
 Thornton, CO 80229  
 Phone: 720-977-6226

Region 1

As Constructed
No Revisions:
Revised:
Void:

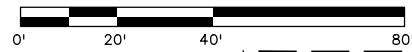
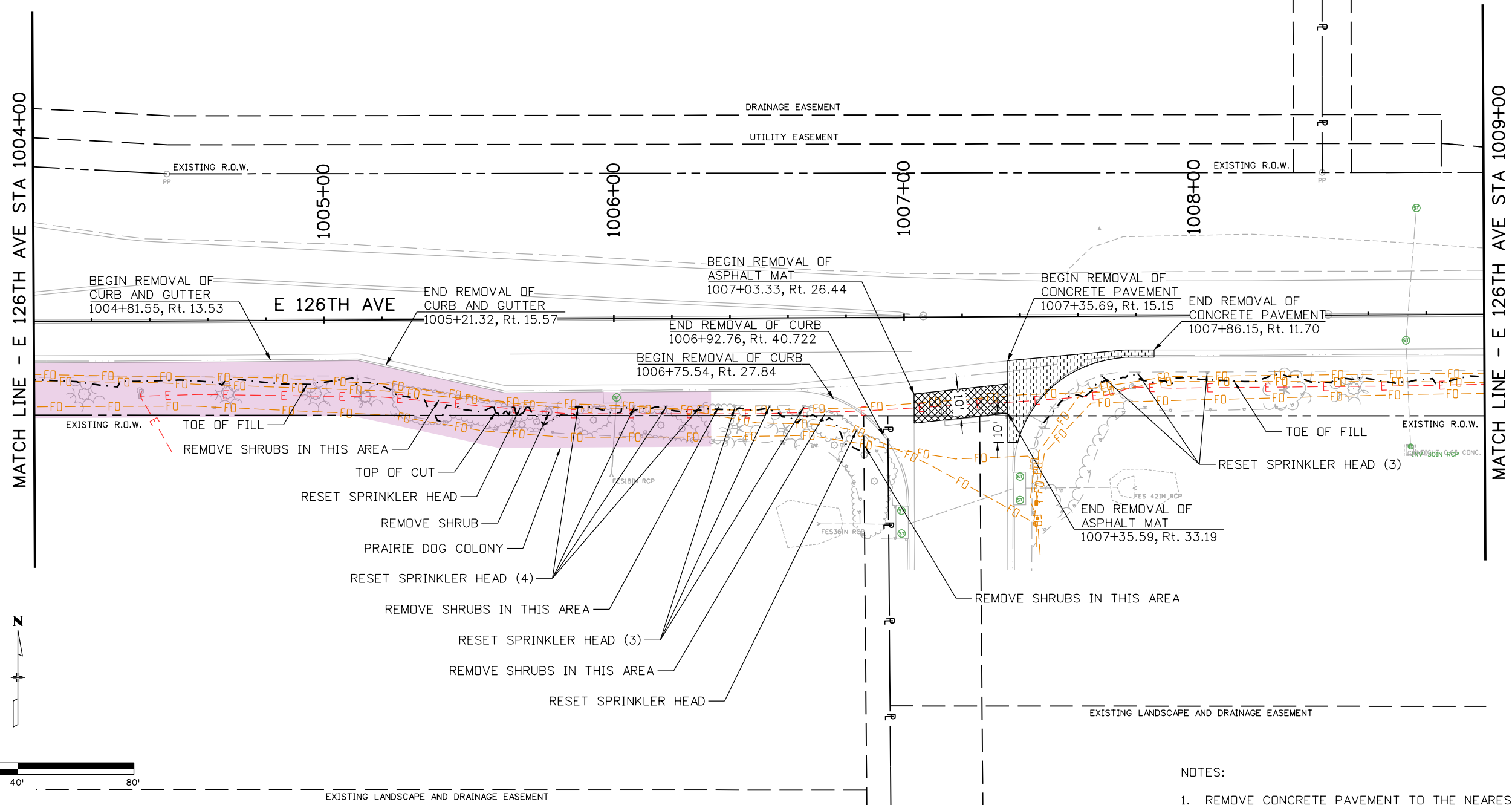
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Designer:	BTT	Structure	
Detailer:	BTT	Numbers	
Sheet Subset:	REMOVAL	Subset Sheets:	01 of 05

Project No./Code
SAR M286-046
22552
Sheet Number 17



Know what's below.  
Call before you dig.

	REMOVAL OF ASPHALT MAT
	REMOVAL OF CONCRETE PAVEMENT



NOTES:  
1. REMOVE CONCRETE PAVEMENT TO THE NEAREST JOINT.

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 File Name: 22552DES\_RemovalPlan02.dgn  
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 Unit Information  
  
 5690 DTC Boulevard, Suite 330W  
 Greenwood Village, CO 80111  
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Date:	Comments	Init.

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 Denver, CO 80204  
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 9500 Civic Center Dr  
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 Phone: 720-977-6226

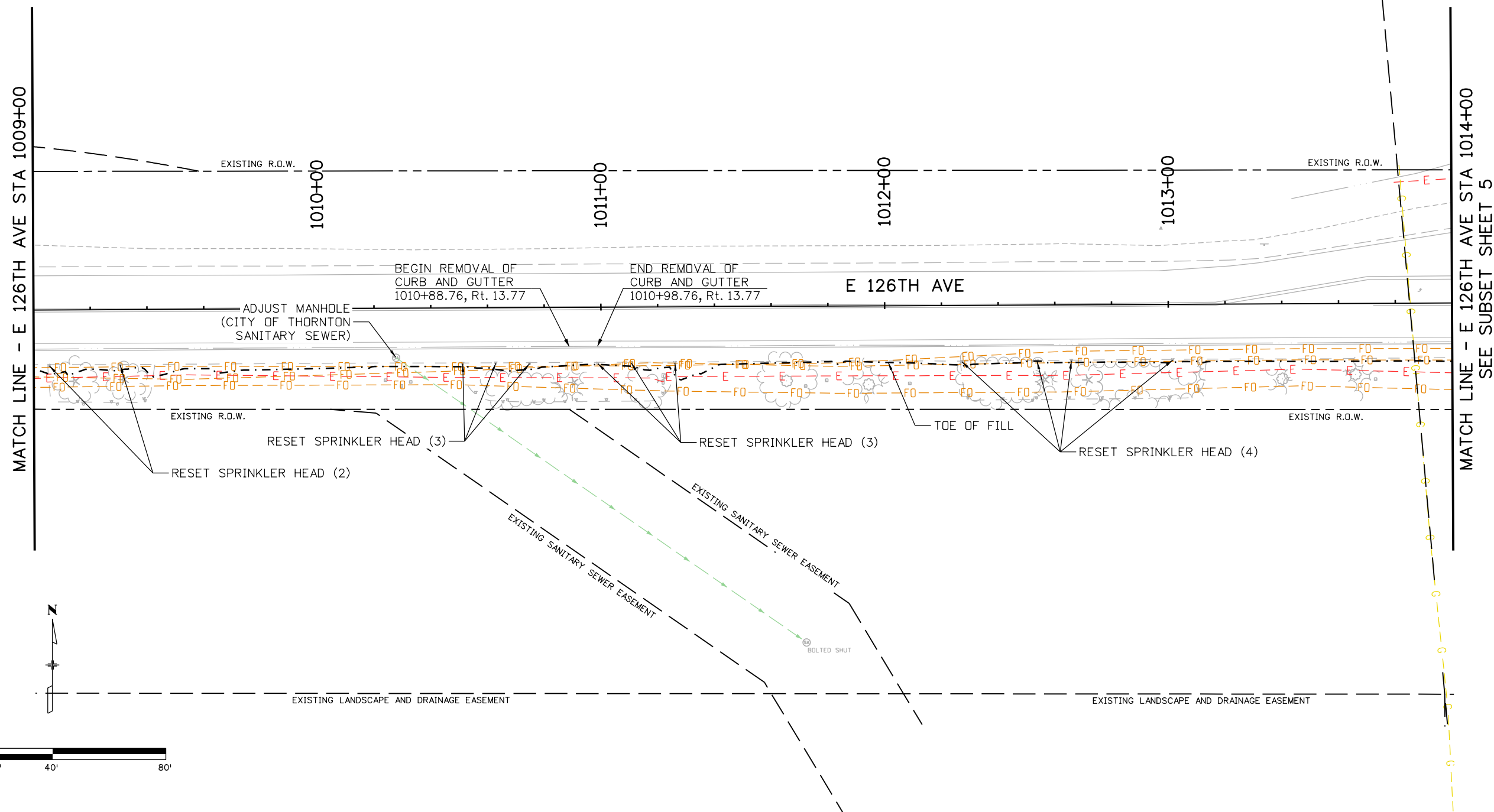
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No Revisions:	Designer: BTT	Structure Numbers
Revised:	Detailer: BTT	
Void:	Sheet Subset: REMOVAL	Subset Sheets: 02 of 05

Project No./Code	SAR M286-046
	22552
Sheet Number	18



Know what's below.  
Call before you dig.

	REMOVAL OF ASPHALT MAT
	REMOVAL OF CONCRETE PAVEMENT



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Print Date: 6/27/2022  
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 Horiz. Scale: 1:40  
 Unit Information  
 5690 DTC Boulevard, Suite 330W  
 Greenwood Village, CO 80111  
 Phone: 303-221-2330  
 Fax: 303-221-2331  
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Sheet Revisions		
Date:	Comments	Init.

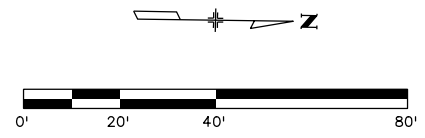
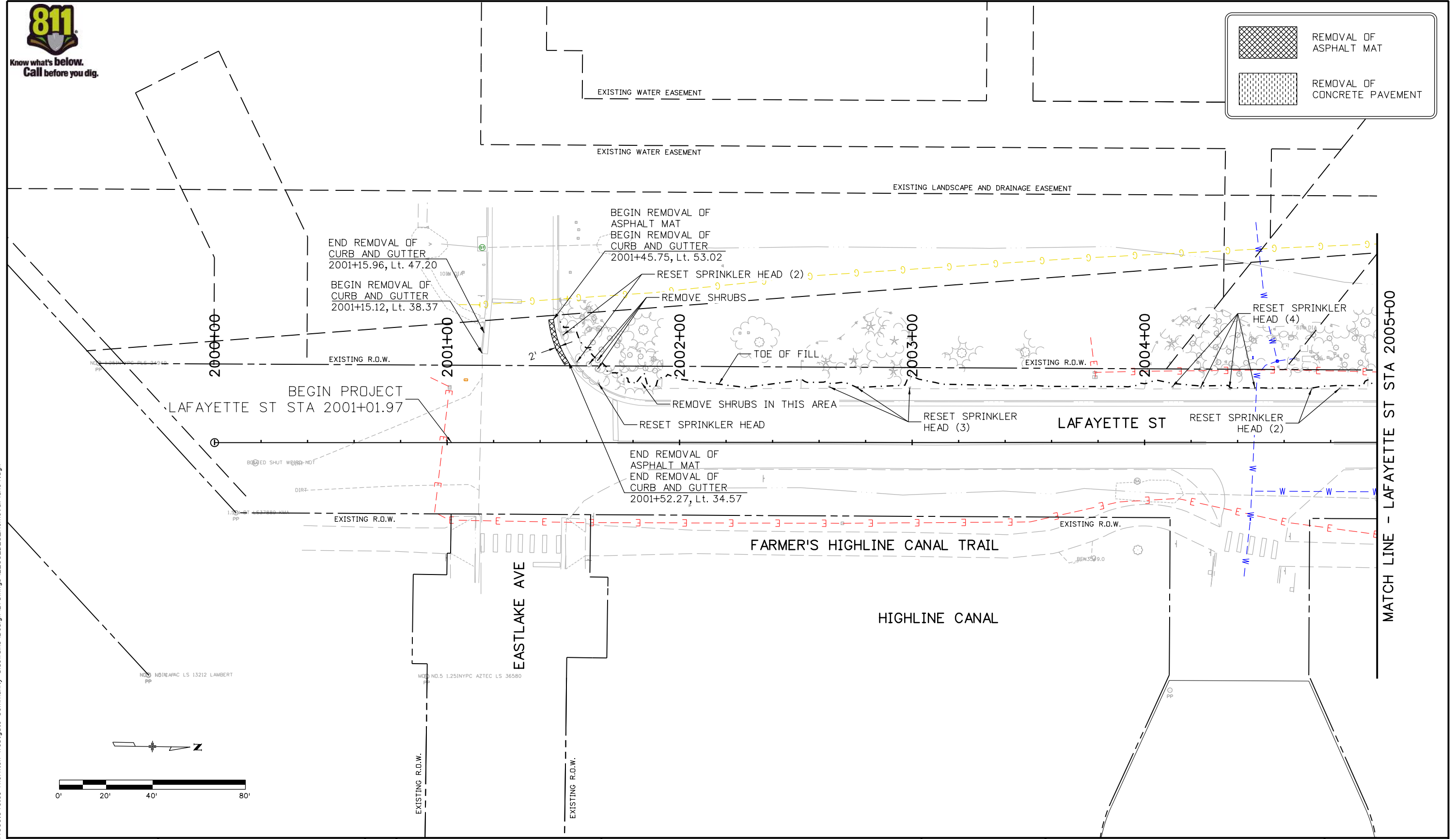
Colorado Department of Transportation  
 2829 W. Howard Place  
 Denver, CO 80204  
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 Region 1  
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As Constructed	REMOVAL PLAN	
	No Revisions:	
	Revised:	Void:
Designer: BTT		Structure Numbers
Detailer: BTT		Sheet Subsets: REMOVAL
Sheet Subsets: REMOVAL		Subset Sheets: 03 of 05

Project No./Code	SAR M286-046
	22552
Sheet Number	19



	REMOVAL OF ASPHALT MAT
	REMOVAL OF CONCRETE PAVEMENT



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Print Date: 9/21/2022  
 File Name: 22552DES RemovalPlan04.dgn  
 Horiz. Scale: 1:40  
 Unit Information  
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Sheet Revisions		
Date:	Comments	Init.

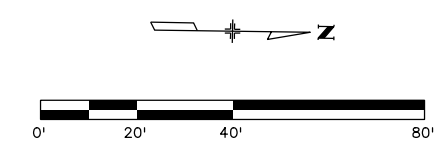
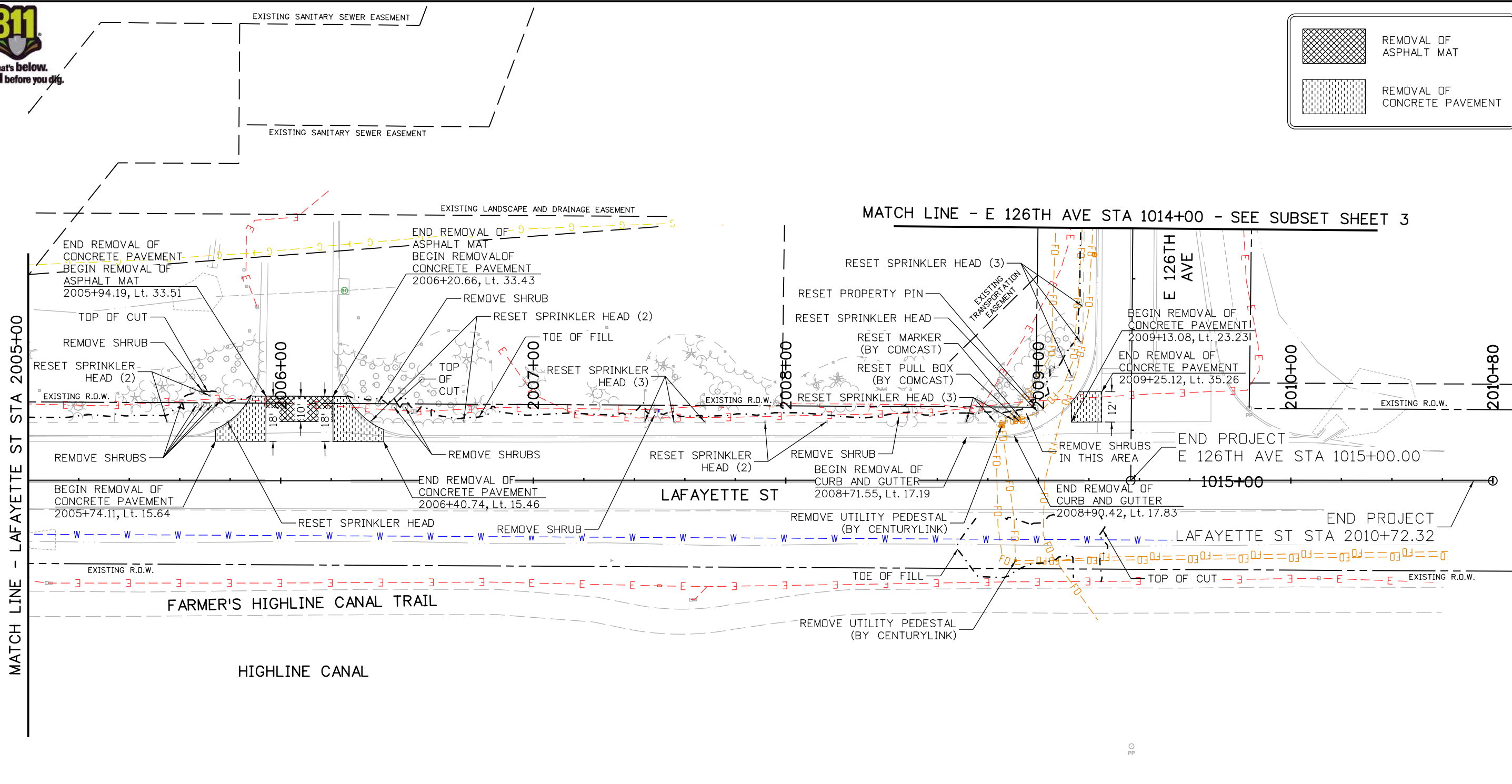
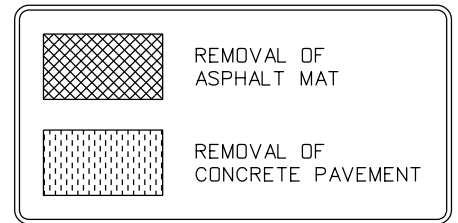
**Colorado Department of Transportation**  
  
 Region 1  
 2829 W. Howard Place  
 Denver, CO 80204  
 Phone: 303-757-9007

**City of Thornton**  
  
 9500 Civic Center Dr  
 Thornton, CO 80229  
 Phone: 720-977-6226

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 No Revisions:  
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 Void:

REMOVAL PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT	Subset Sheets:	04 of 05
Sheet Subset:	REMOVAL		

**Project No./Code**  
 SAR M286-046  
 22552  
 Sheet Number 20



NOTES:  
1. REMOVE CONCRETE PAVEMENT TO THE NEAREST JOINT.

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Print Date: 9/21/2022	
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Unit Information	
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Sheet Revisions		
Date:	Comments	Init.

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 Phone: 720-977-6226

Region 1

As Constructed	
No Revisions:	
Revised:	
Void:	


REMOVAL PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	REMOVAL	Subset Sheets:	05 of 05

Project No./Code	SAR M286-046
	22552
Sheet Number	21



TABULATION OF SURFACING																	
ROADWAY	STATION	SIDE	304-06004		403-00721		412-00190		608-00000		608-00010		609-21020		610-00020		REMARKS
			AGGREGATE BASE COURSE (CLASS 6)		HOT MIX ASPHALT (PATCHING) (ASPHALT)		CONCRETE PAVEMENT (PATCHING)		CONCRETE SIDEWALK		CONCRETE CURB RAMP		CURB AND GUTTER TYPE 2 (SECTION II-B)		MEDIAN COVER MATERIAL (PATTERNED CONCRETE)*		
			SY		SY		SY		SY		SY		LF		SF		
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
E 126TH AVE	1001+80.22 TO 1001+93.79	RT	5		5												
E 126TH AVE	1001+81.77 TO 1001+88.88	RT							5								
E 126TH AVE	1001+88.88 TO 1001+96.47	RT									17						
E 126TH AVE	1001+96.47 TO 1004+00.00	RT							115								
E 126TH AVE	1004+00.00 TO 1006+75.54	RT							152								
E 126TH AVE	1004+81.55 TO 1005+21.30	RT											40				
E 126TH AVE	1006+75.54 TO 1006+92.76	RT									14						
E 126TH AVE	1007+03.33 TO 1007+35.65	RT	37		37												
E 126TH AVE	1007+35.69 TO 1007+57.96	RT	49				49				14						
E 126TH AVE	1007+57.96 TO 1009+00.00	RT							80								
E 126TH AVE	1009+00.00 TO 1014+00.00	RT							282								
E 126TH AVE	1010+88.76 TO 1010+98.76	RT											10				
LAFAYETTE ST	2001+08.11 TO 2001+17.97	LT									12						
LAFAYETTE ST	2001+43.67 TO 2001+50.56	LT	5		5						12						
LAFAYETTE ST	2001+54.32 TO 2005+00.00	LT							197								
LAFAYETTE ST	2005+00.00 TO 2005+72.28	LT							42								
LAFAYETTE ST	2005+54.68 TO 2005+77.46	LT													68		
LAFAYETTE ST	2005+74.11 TO 2005+94.19	LT	27				27				10						
LAFAYETTE ST	2005+94.19 TO 2006+20.66	LT	30		30												
LAFAYETTE ST	2006+20.66 TO 2006+40.74	LT	27				27				10						
LAFAYETTE ST	2006+37.35 TO 2006+59.62	LT													65		
LAFAYETTE ST	2006+42.55 TO 2008+71.55	LT							129								
LAFAYETTE ST	2008+71.55 TO 2008+89.55	LT									17						
LAFAYETTE ST	2008+71.05 TO 2009+29.04	RT									76						
LAFAYETTE ST	2008+89.55 TO 2009+10.39	LT							12								
LAFAYETTE ST	2009+10.39 TO 2009+16.00	LT									13						
LAFAYETTE ST	2009+13.08 TO 2009+25.12	LT	15				15										
LAFAYETTE ST/E 126TH AVE	2009+16.00 TO 1014+00.00	LT/RT							31								
<b>TOTALS</b>			195		77		118		1045		195		50		133		

\*NOTE: COLOR SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. THE COLORANT SHALL BE INCORPORATED INTO THE INITIAL CONCRETE MIX DESIGN.

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 Unit Information  
 5690 DTC Boulevard, Suite 330W  
 Greenwood Village, CO 80111  
 Phone: 303-221-2330  
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Sheet Revisions		
Date:	Comments	Init.

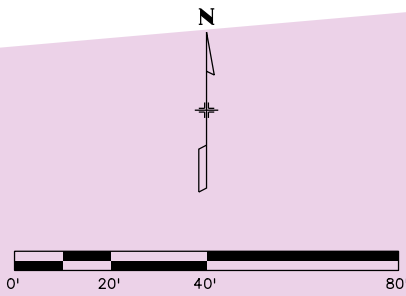
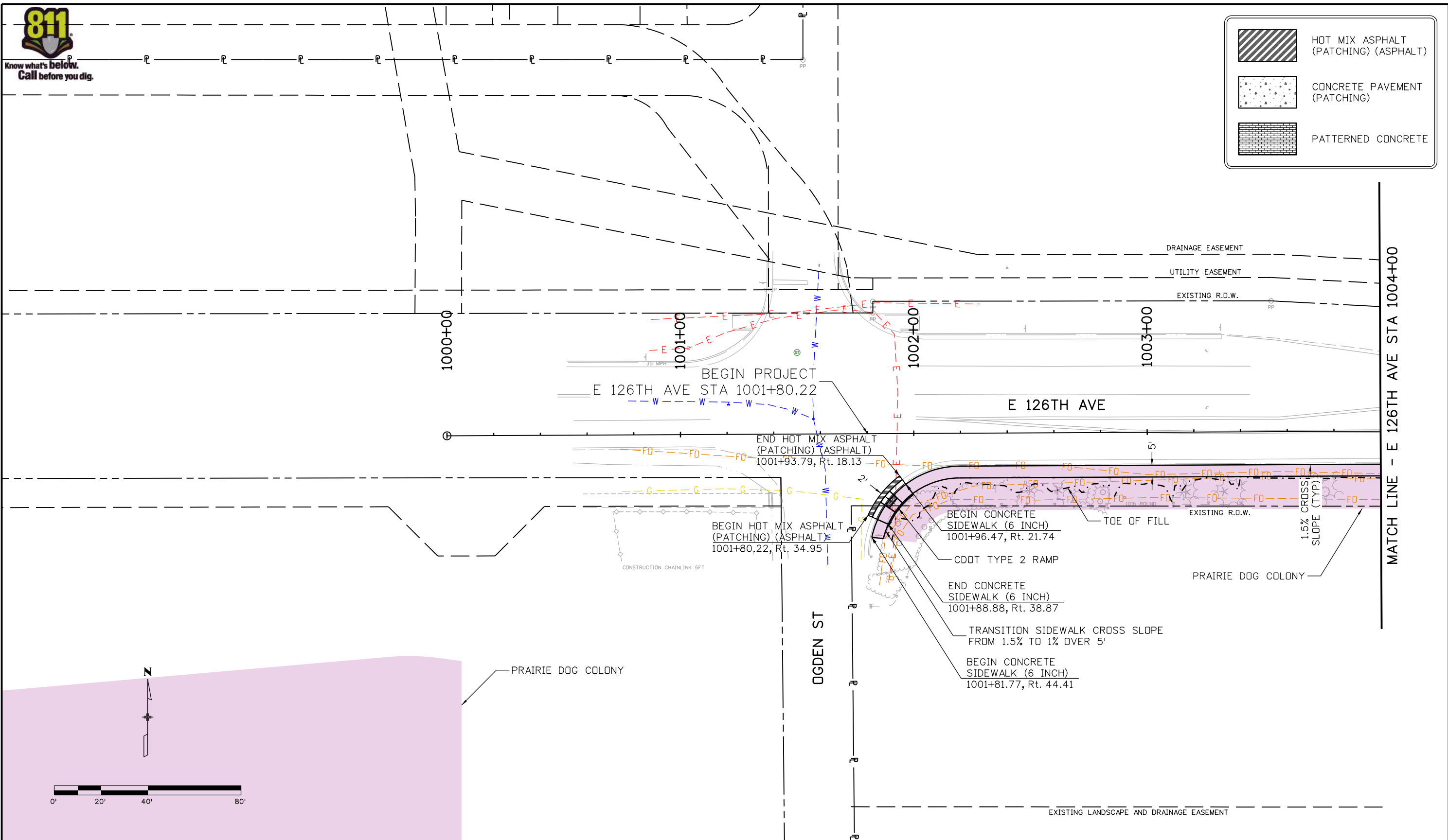
Colorado Department of Transportation  
 2829 W. Howard Place  
 Denver, CO 80204  
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As Constructed	TABULATION OF SURFACING ITEMS		Project No./Code
	No Revisions:		SAR M286-046
	Revised:	Designer: BTT	Structure Numbers
	Void:	Detailer: BTT	22552
Sheet Subset: TAB SURF		Subset Sheets: 01 of 01	Sheet Number 22



Know what's below.  
Call before you dig.

	HOT MIX ASPHALT (PATCHING) (ASPHALT)
	CONCRETE PAVEMENT (PATCHING)
	PATTERNED CONCRETE



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Print Date: 6/27/2022
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Unit Information
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Sheet Revisions		
Date:	Comments	Init.

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Thornton, CO 80229  
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No Revisions:
Revised:
Void:

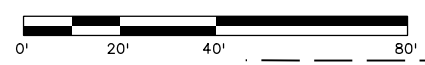
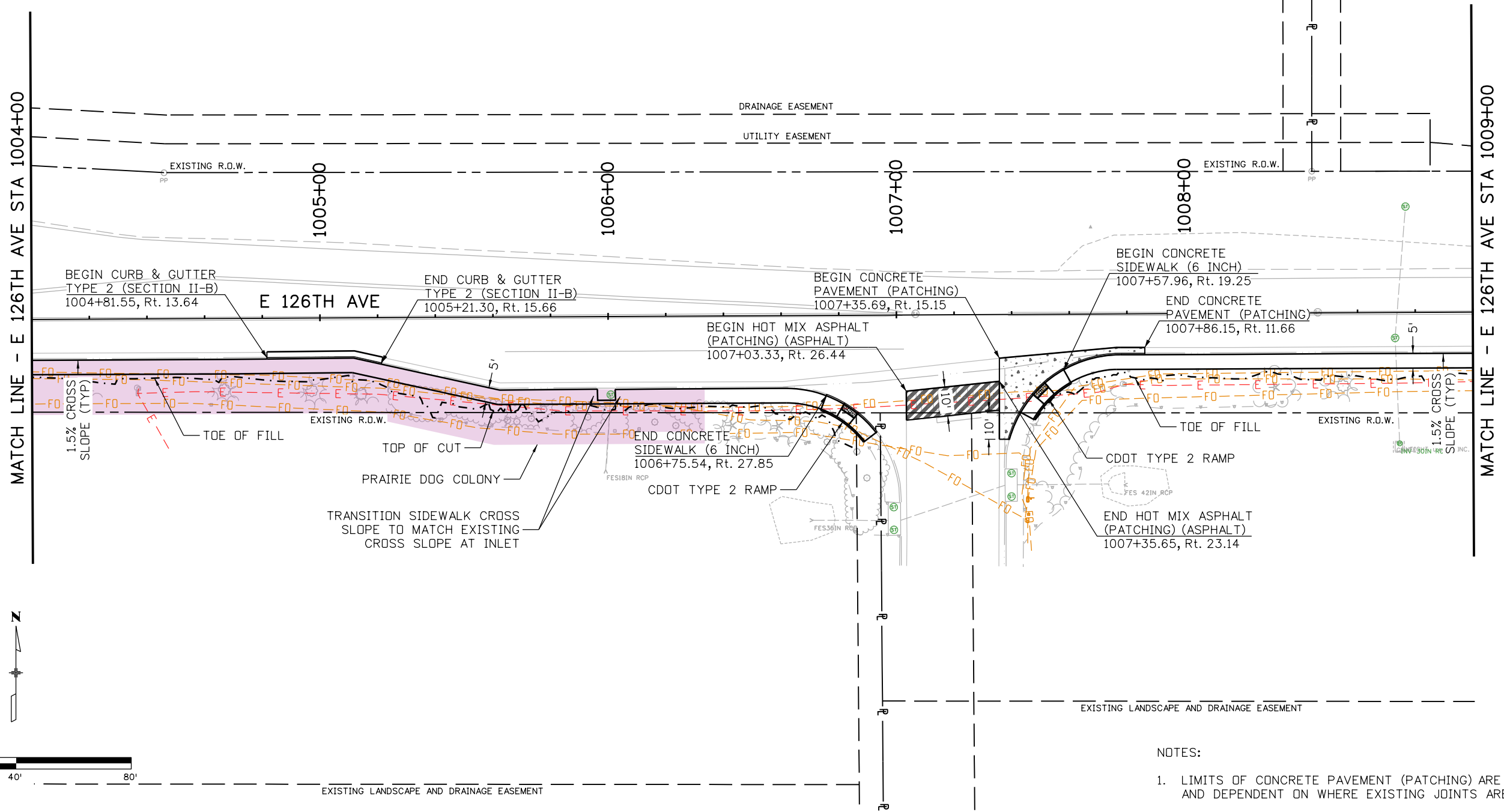
SIDEWALK PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT	Subset Sheets:	01 of 05
Sheet Subset:	SIDEWALK		

Project No./Code
SAR M286-046
22552
Sheet Number <b>23</b>



Know what's below.  
Call before you dig.

	HOT MIX ASPHALT (PATCHING) (ASPHALT)
	CONCRETE PAVEMENT (PATCHING)
	PATTERNED CONCRETE



NOTES:

- LIMITS OF CONCRETE PAVEMENT (PATCHING) ARE APPROXIMATE AND DEPENDENT ON WHERE EXISTING JOINTS ARE.

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Print Date: 6/27/2022

File Name: 22552DES\_SidewalkPlan02.dgn

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SIDEWALK PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	SIDEWALK	Subset Sheets:	02 of 05

Project No./Code	SAR M286-046
	22552
Sheet Number	24



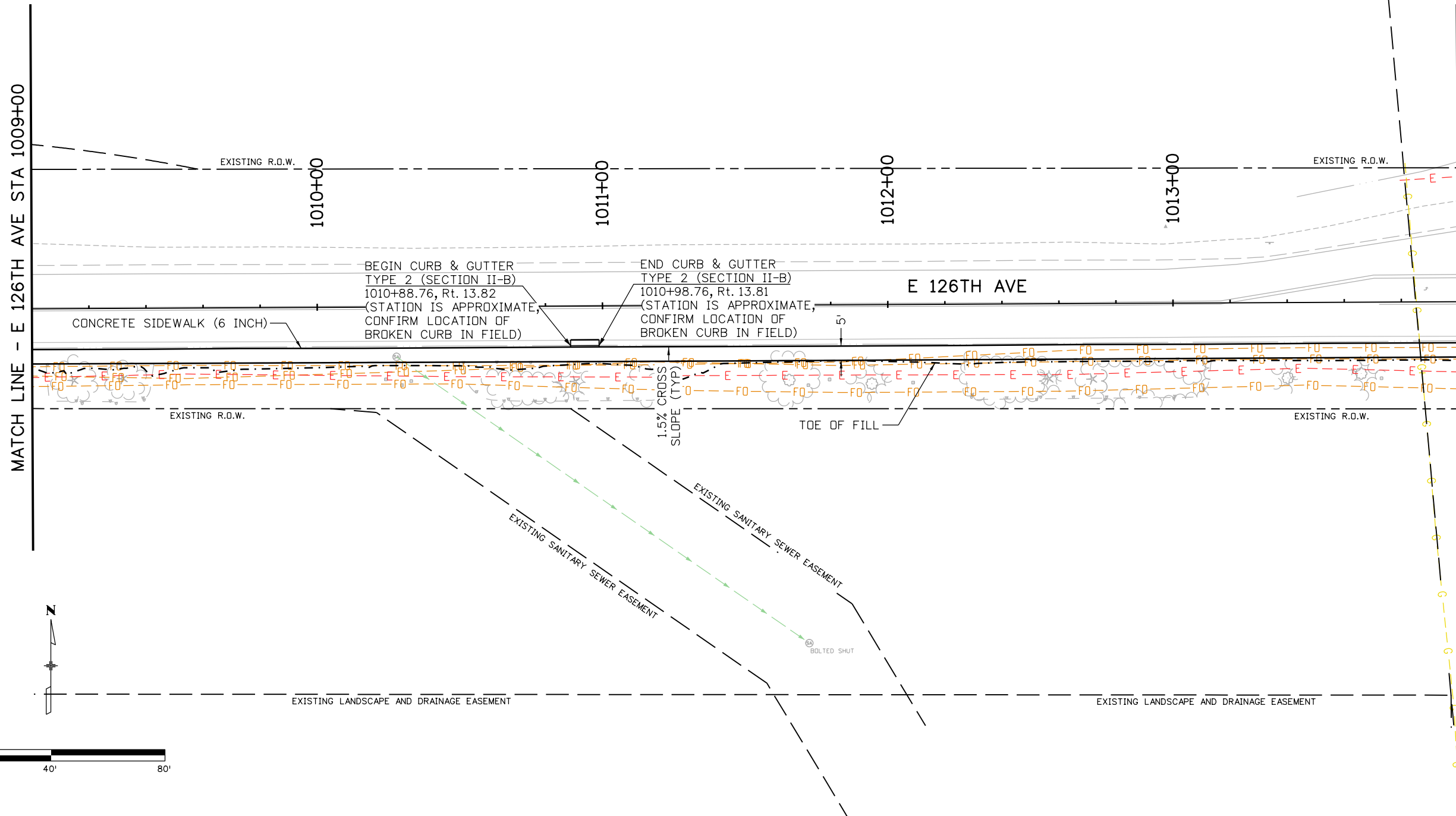


Know what's below.  
Call before you dig.

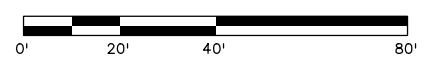
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	CONCRETE PAVEMENT (PATCHING)
	PATTERNED CONCRETE

MATCH LINE - E 126TH AVE STA 1009+00

MATCH LINE - E 126TH AVE STA 1014+00  
SEE SUBSET SHEET 5



bitmbers 10:21:51 AM P:\4000.040.01 Thornton Westgate Community Sidewalks\Design\Drawings\22552DES\_SidewalkPlan03.dgn



Print Date: 6/27/2022  
 File Name: 22552DES\_SidewalkPlan03.dgn  
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Revised:	
Void:	

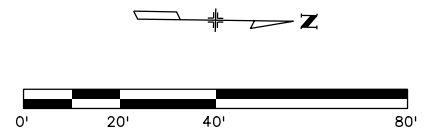
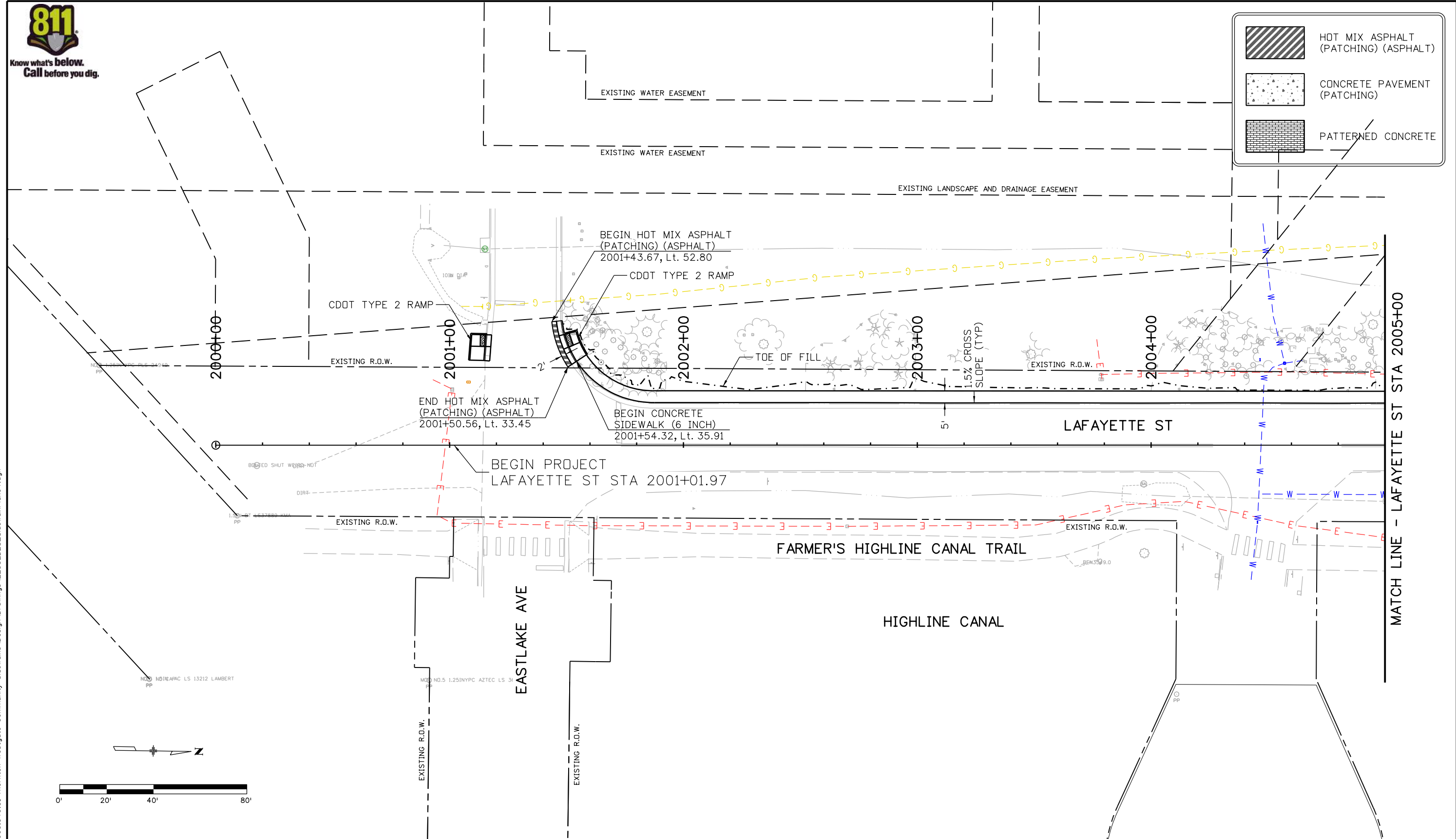
SIDEWALK PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT	Subset Sheets:	03 of 05
Sheet Subset:	SIDEWALK		

Project No./Code	SAR M286-046
	22552
Sheet Number	25



Know what's below.  
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	HOT MIX ASPHALT (PATCHING) (ASPHALT)
	CONCRETE PAVEMENT (PATCHING)
	PATTERNED CONCRETE



bitmbers 4:45:15 PM P:\4000.040.01 Thornton Westgate Community Sidewalks\Design\Drawings\22552DES\_SidewalkPlan04.dgn

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 Unit Information  
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 Phone: 303-221-2330  
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Sheet Revisions		
Date:	Comments	Init.

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 Denver, CO 80204  
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City of Thornton  
 9500 Civic Center Dr  
 Thornton, CO 80229  
 Phone: 720-977-6226

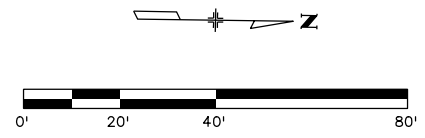
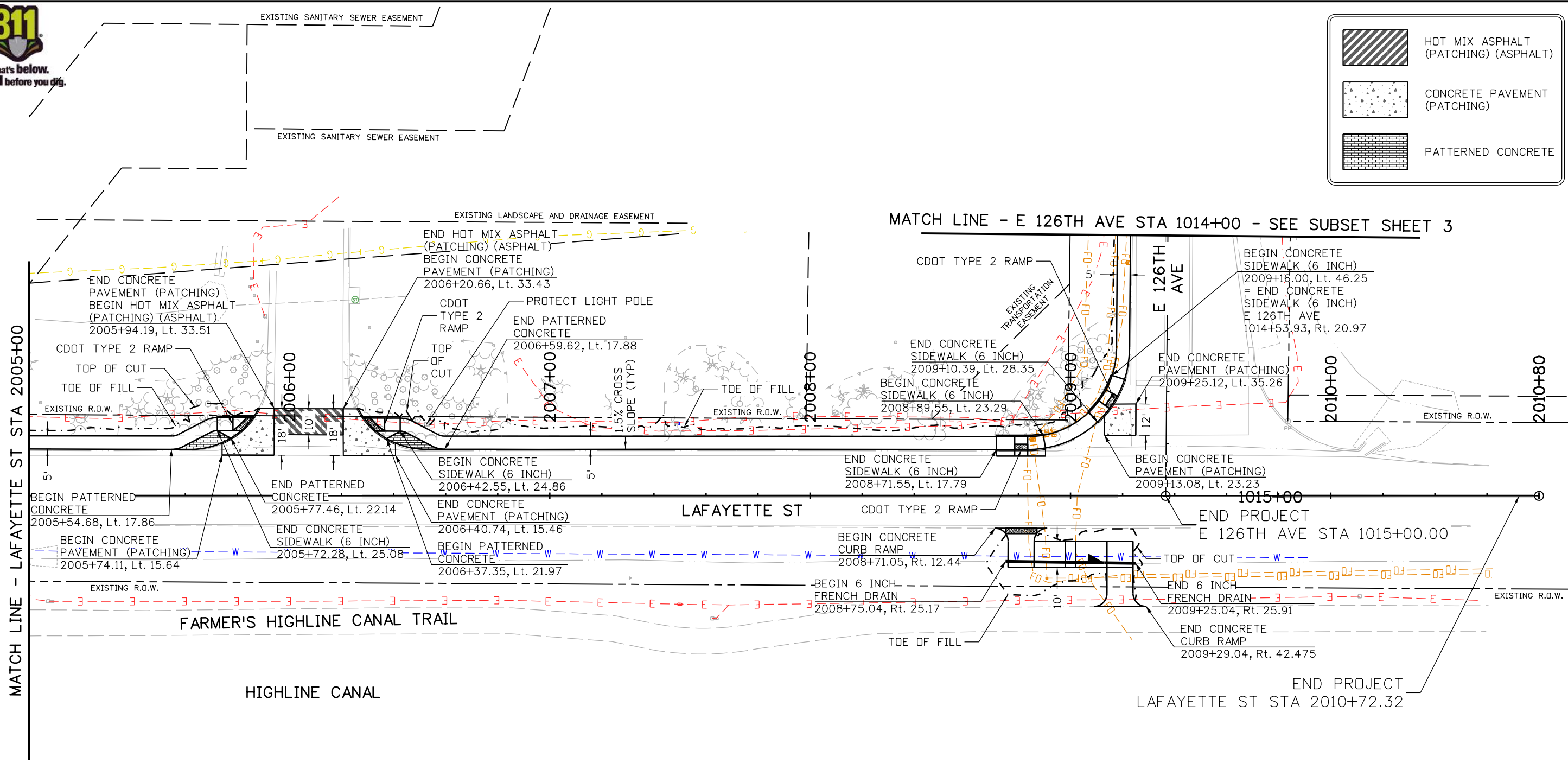
As Constructed
No Revisions:
Revised:
Void:

SIDEWALK PLAN			
Designer:	BTT	Structure Numbers	
Detailer:	BTT	Subset Sheets:	04 of 05
Sheet Subset:	SIDEWALK		

Project No./Code
SAR M286-046
22552
Sheet Number 26



	HOT MIX ASPHALT (PATCHING) (ASPHALT)
	CONCRETE PAVEMENT (PATCHING)
	PATTERNED CONCRETE



NOTES:  
 1. LIMITS OF CONCRETE PAVEMENT (PATCHING) ARE APPROXIMATE AND DEPENDENT ON WHERE EXISTING JOINTS ARE.

timbers 4:45:22 PM P:\4000.040.01 Thornton Westgate Community Sidewalks\Drawings\22552DES\_SidewalkPlan05.dgn

Print Date: 9/21/2022  
 File Name: 22552DES\_SidewalkPlan05.dgn  
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 Unit Information  
 5690 DTC Boulevard, Suite 330W  
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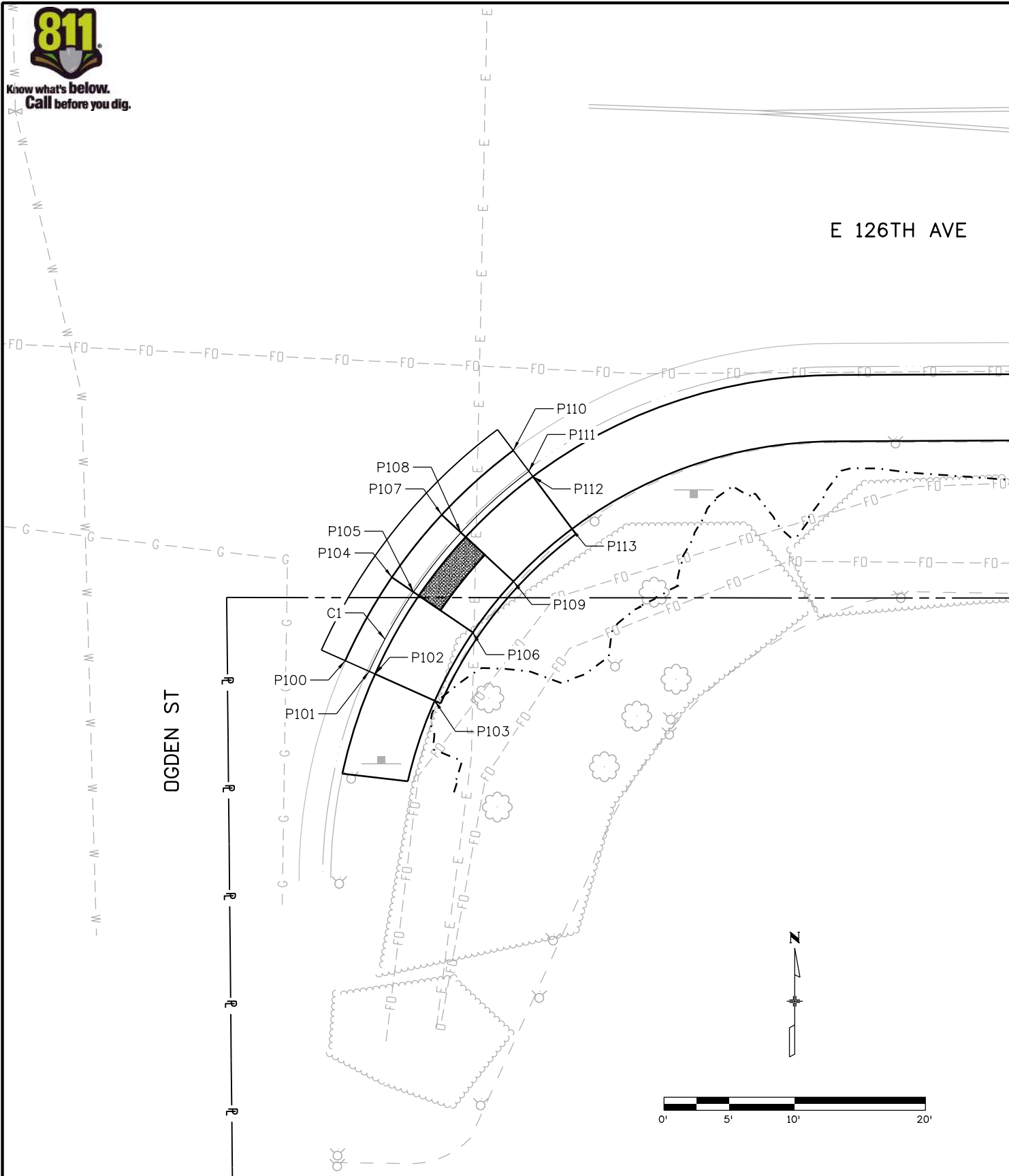
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P100	216203.9358	148505.9305	MATCH EXIST (5300.56)	PAN
P101	216203.1207	148507.7569	MATCH EXIST (5300.43)	FL
P102	216202.9169	148508.2135	MATCH EXIST (5300.83)	BACK OF CURB
P103	216200.8792	148512.7794	5300.88	TOP OF RAMP
P104	216210.3280	148509.4989	5300.38	PAN
P105	216209.2011	148511.1512	5300.28	FL
P106	216206.1021	148515.6951	5300.39	TURNING SPACE
P107	216215.1080	148513.3107	5300.28	PAN
P108	216213.7479	148514.7770	5300.18	FL
P109	216210.0077	148518.8095	5300.29	TURNING SPACE
P110	216220.0385	148518.7869	MATCH EXIST (5300.05)	PAN
P111	216218.4379	148519.9861	MATCH EXIST (5299.93)	FL
P112	216218.0378	148520.2859	MATCH EXIST (5300.35)	BACK OF CURB
P113	216214.0364	148523.2840	5300.43	TOP OF RAMP

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C1	39	216203.1207	148507.7569	216218.4379	148519.9861

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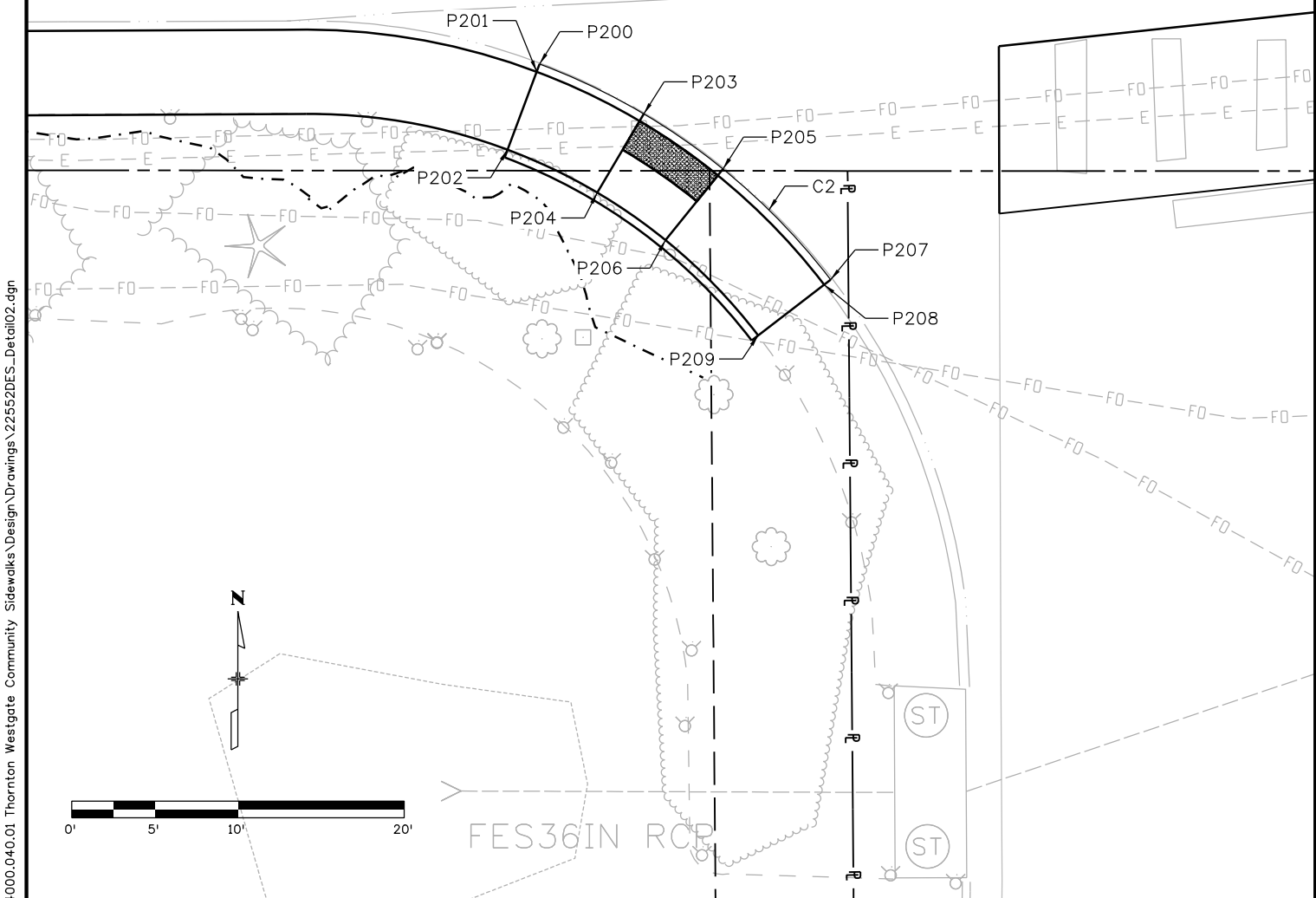
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E 126TH AVE

SA

POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P200	216214.8285	148999.5540	MATCH EXIST (5296.58)	FL
P201	216214.3602	148999.3789	MATCH EXIST (5297.05)	BACK OF CURB
P202	216209.6771	148997.6272	5297.13	TOP OF RAMP
P203	216211.8314	149005.8226	MATCH EXIST (5296.71)	FL
P204	216207.0973	149003.0229	5296.82	TURNING SPACE
P205	216208.5181	149010.5875	MATCH EXIST (5296.82)	FL
P206	216204.2454	149007.1243	5296.92	TURNING SPACE
P207	216201.8644	149017.0635	MATCH EXIST (5296.98)	FL
P208	216201.5601	149016.6665	MATCH EXIST (5297.46)	BACK OF CURB
P209	216198.5182	149012.6986	5297.49	TOP OF RAMP

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C2	39.5	216214.8285	148999.5540	216201.8644	149017.0635



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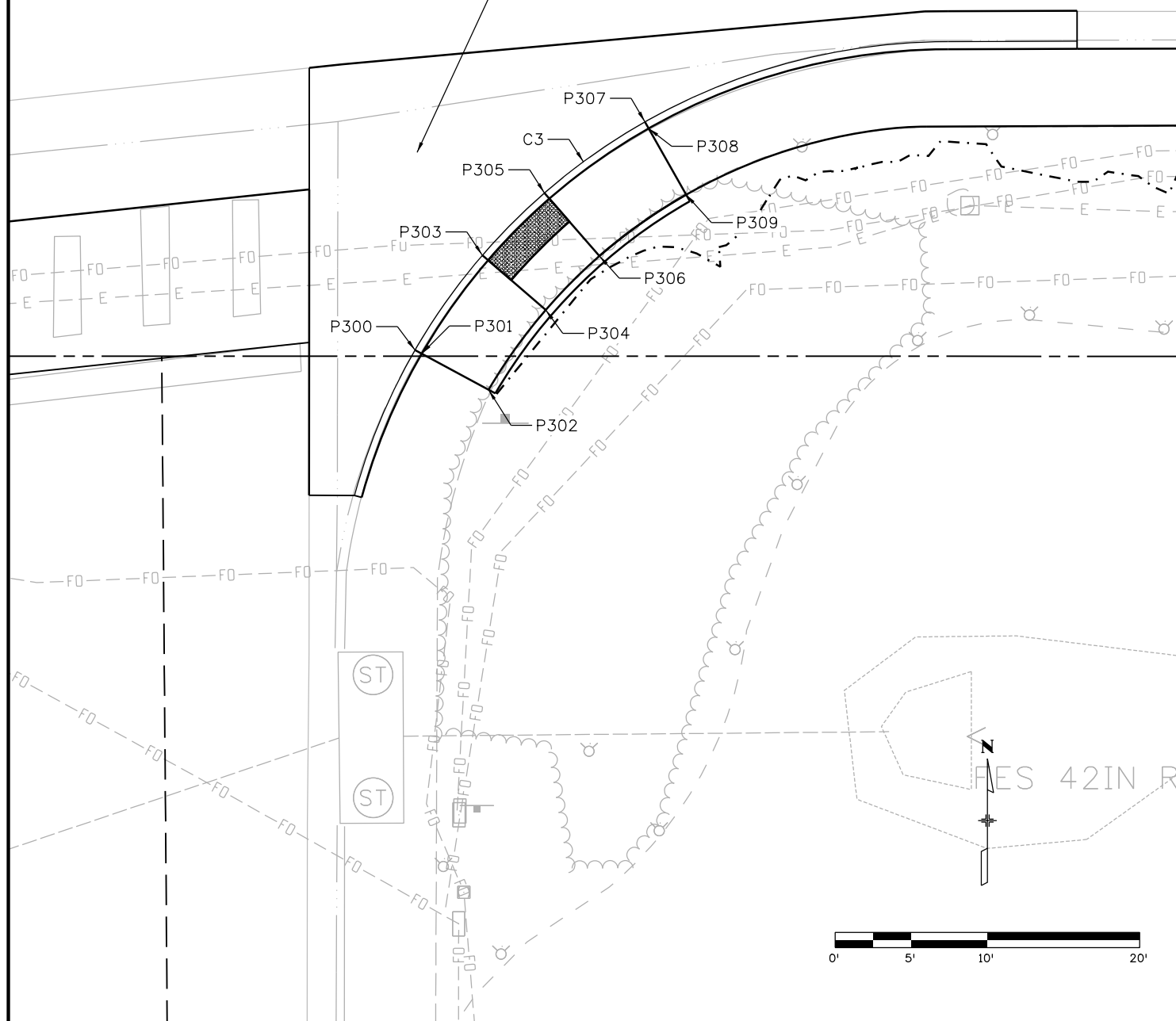
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### E 126TH AVE

REPLACE CONCRETE TO FLATTEN GRADE BREAK



POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P300	216208.7977	149066.4113	5297.22	FL
P301	216208.5601	149066.8514	5297.72	BACK OF CURB
P302	216206.1832	149071.2529	MATCH EXIST (5297.81)	TOP OF RAMP
P303	216215.0301	149070.8358	5297.17	FL
P304	216211.4373	149075.0001	5897.28	TURNING SPACE
P305	216219.1264	149074.9148	5897.17	FL
P306	216214.9764	149078.5241	5897.28	TURNING SPACE
P307	216223.7992	149081.5145	5297.23	FL
P308	216223.3643	149081.7613	5297.73	BACK OF CURB
P309	216219.0155	149084.2287	5297.81	TOP OF RAMP

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C3	40.5	216199.2460	149062.4318	216229.0739	149101.4172

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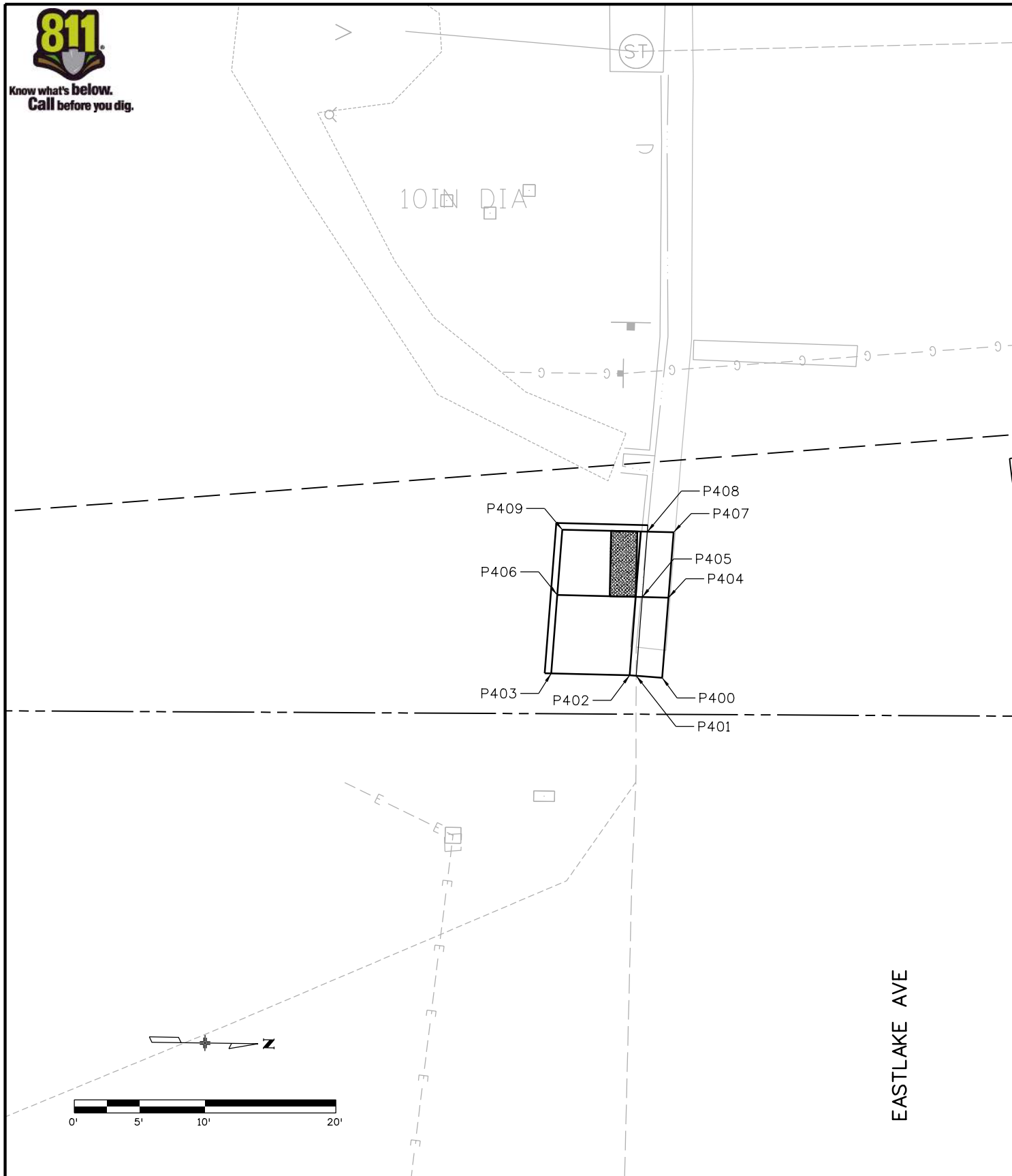
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P400	215426.4757	149798.8653	MATCH EXIST (5307.74)	PAN
P401	215424.4798	149798.7375	MATCH EXIST (5307.73)	FL
P402	215423.9808	149798.7055	5308.23	BACK OF CURB
P403	215417.9723	149798.6471	5308.35	TOP OF RAMP
P404	215426.8686	149792.7278	MATCH EXIST (5307.73)	PAN
P405	215424.8658	149792.7084	5307.72	FL
P406	215418.3565	149792.6450	5307.85	TURNING SPACE
P407	215427.1885	149787.7307	MATCH EXIST (5307.74)	PAN
P408	215425.1857	149787.7112	MATCH EXIST (5307.71)	FL
P409	215418.6764	149787.6479	5307.84	TURNING SPACE

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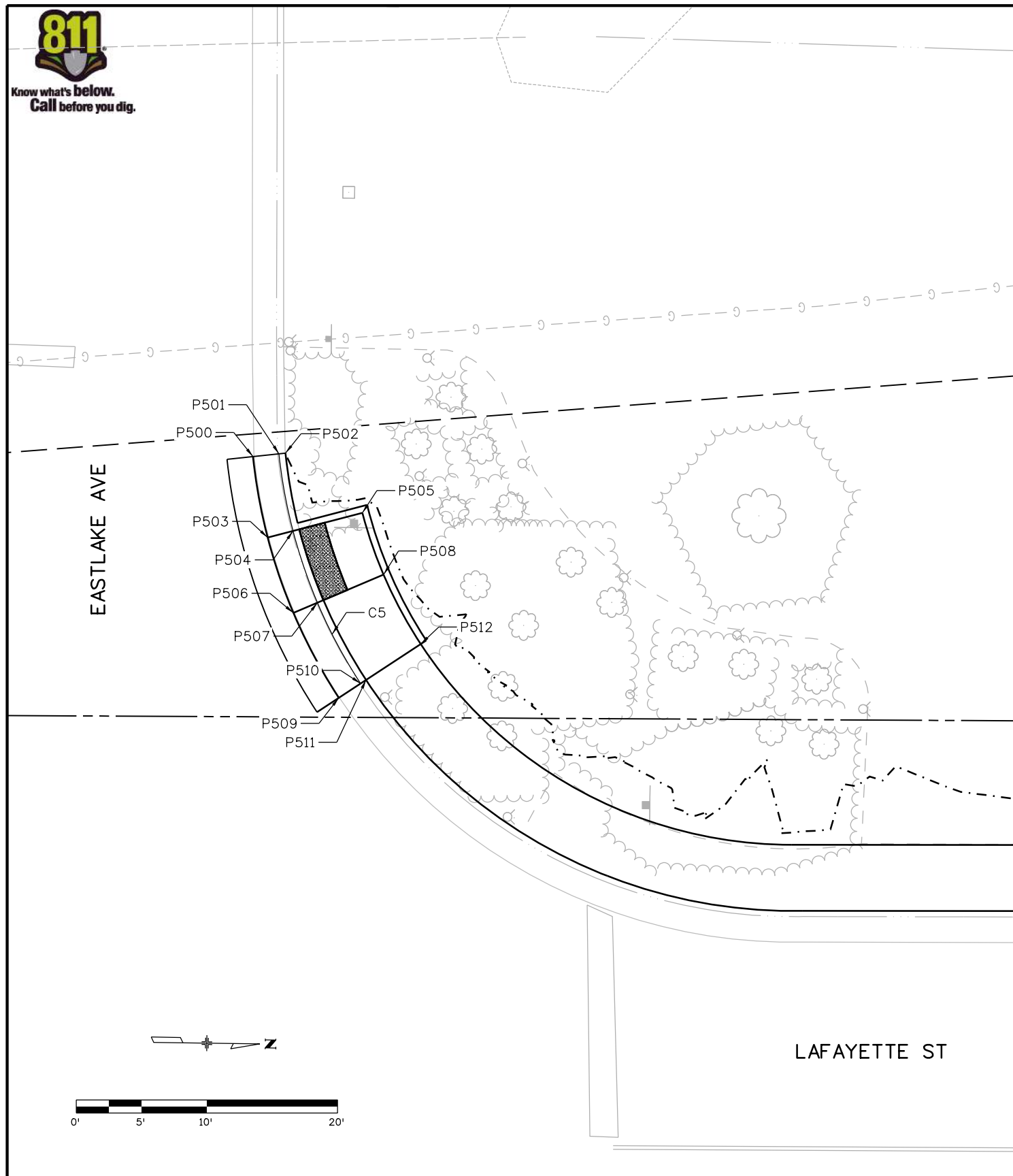
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P500	215454.7987	149781.4974	MATCH EXIST (5307.94)	PAN
P501	215456.7850	149781.2638	MATCH EXIST (5307.81)	FL
P502	215457.2816	149781.2054	MATCH EXIST (5308.24)	BACK OF CURB
P503	215456.0076	149787.6816	5307.77	PAN
P504	215457.9357	149787.1500	5307.67	FL
P505	215463.2378	149785.6880	5307.76	TURNING SPACE
P506	215458.0558	149793.4247	5307.65	PAN
P507	215459.8852	149792.6164	5307.56	FL
P508	215464.9159	149790.3933	5307.66	TURNING SPACE
P509	215461.6186	149799.8704	MATCH EXIST (5307.41)	PAN
P510	215463.2763	149798.7514	MATCH EXIST (5307.29)	FL
P511	215463.6907	149798.4716	MATCH EXIST (5307.65)	BACK OF CURB
P512	215467.8348	149795.6740	5307.73	TOP OF RAMP

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C5	39.5	215456.7850	149781.2638	215463.2763	149798.7514

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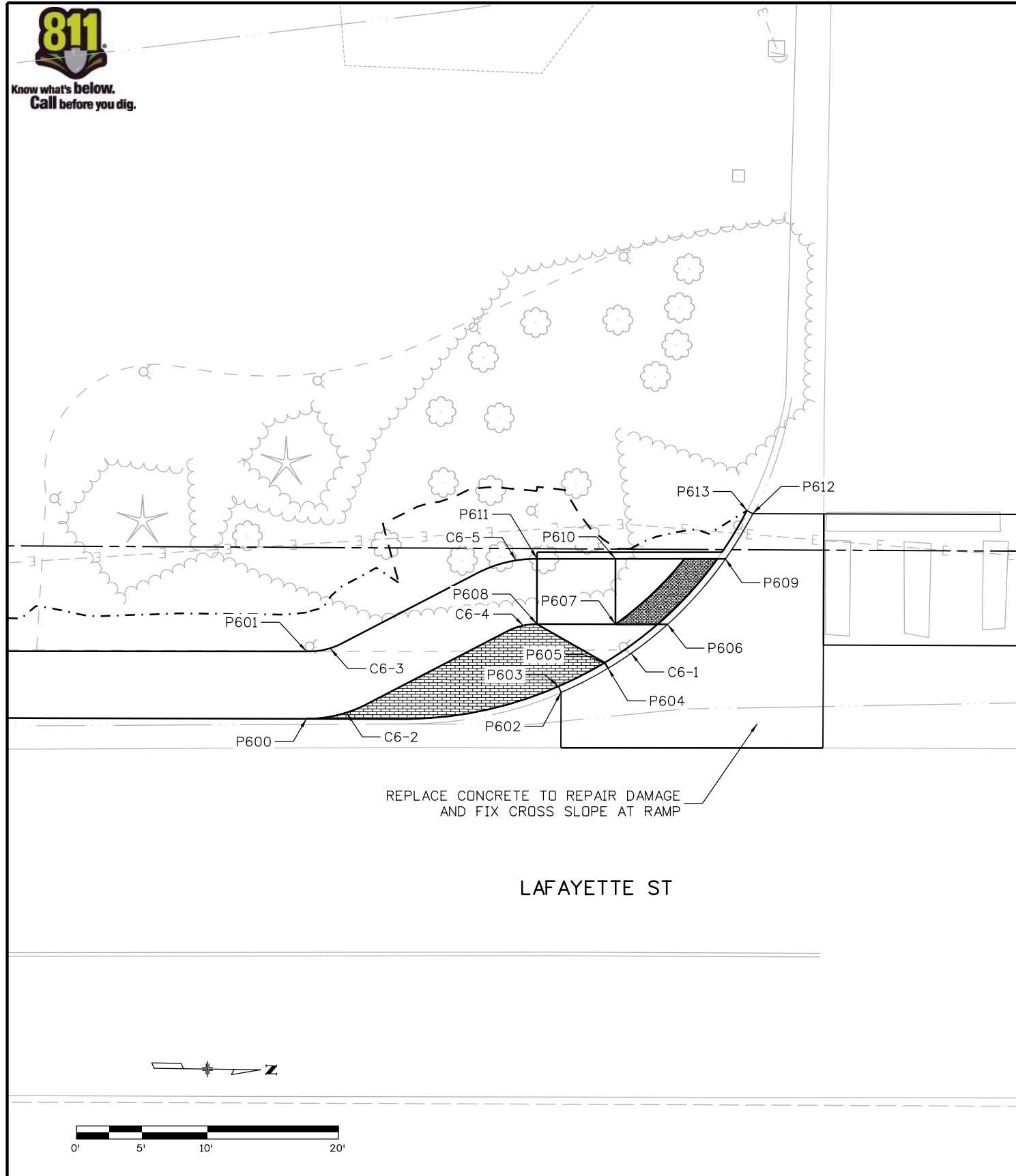
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P600	215864.2614	149811.0546	MATCH EXIST (5298.41)	BACK OF CURB
P601	215864.1956	149805.9142	5298.49	BACK OF WALK
P602	215883.6790	149808.7713	MATCH EXIST (5297.79)	FL
P603	215883.4740	149808.3152	MATCH EXIST (5298.26)	BACK OF CURB
P604	215887.2382	149806.8878	5297.84	FL
P605	215886.9747	149806.4628	5298.28	BACK OF CURB
P606	215891.7310	149803.4659	5297.91	FL
P607	215887.7576	149803.5167	5298.01	LANDING AREA
P608	215881.7581	149803.5935	5298.40	TOP OF RAMP
P609	215896.0831	149798.4098	5297.95	FL
P610	215887.6936	149798.5171	5298.11	LANDING AREA
P611	215881.6941	149798.5939	5298.50	TOP OF RAMP
P612	215898.1207	149794.9233	MATCH EXIST (5298.09)	FL
P613	215897.6743	149794.6979	MATCH EXIST (5298.53)	BACK OF CURB

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C6-1	29.5	215883.6790	149808.7713	215898.1207	149794.9233
C6-2	10	215864.2614	149811.0546	215868.8765	149809.8664
C6-3	5	215864.4803	149805.9106	215866.7808	149805.3166
C6-4	5	215879.4576	149804.1875	215881.7581	149803.5935
C6-5	10	215877.0930	149799.7820	215881.6941	149798.5939

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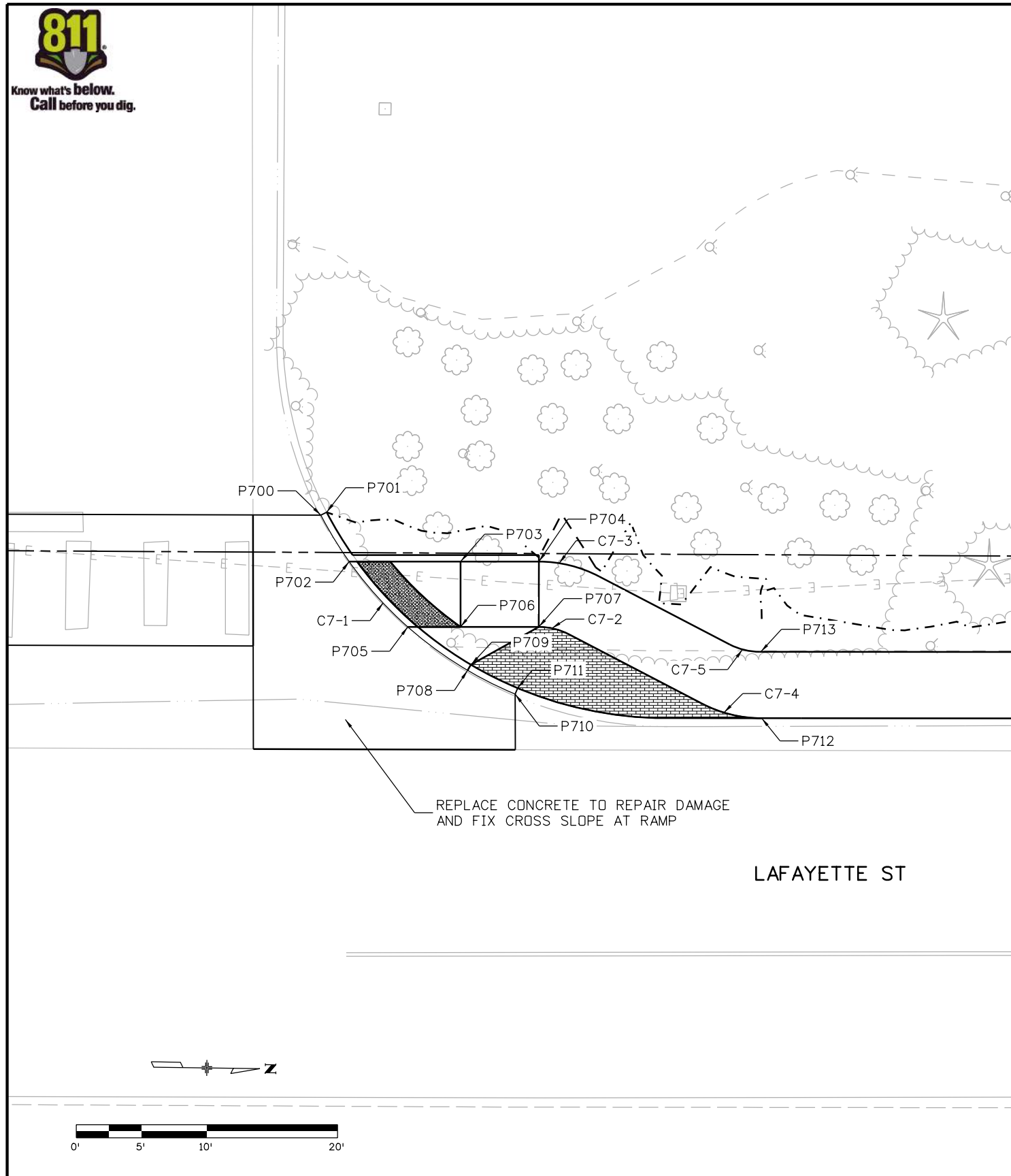
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P700	215935.2158	149794.5233	MATCH EXIST (5297.61)	FL
P701	215935.6564	149794.2871	MATCH EXIST (5298.08)	BACK OF CURB
P702	215937.4285	149798.0446	5297.46	FL
P703	215945.9559	149797.9320	5297.58	LANDING AREA
P704	215951.9554	149797.8527	5297.91	TOP OF RAMP
P705	215941.9922	149802.9847	5297.40	FL
P706	215946.0219	149802.9315	5297.48	LANDING AREA
P707	215952.0214	149802.8523	5297.81	TOP OF RAMP
P708	215946.6156	149806.2484	5297.20	FL
P709	215946.8634	149805.8142	5297.70	BACK OF CURB
P710	215950.2819	149808.0175	MATCH EXIST (5297.12)	FL
P711	215950.4712	149807.5547	MATCH EXIST (5297.60)	BACK OF CURB
P712	215969.1835	149809.6022	MATCH EXIST (5297.23)	BACK OF CURB
P713	215969.0439	149804.5264	5297.31	BACK OF WALK

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C7-1	29.5	215935.2158	149794.5233	215950.2819	149808.0175
C7-2	5	215952.0214	149802.8523	215954.3366	149803.3863
C7-3	10	215951.9554	149797.8527	215956.5857	149798.9207
C7-4	10	215964.5574	149808.5341	215969.1835	149809.6022
C7-5	5	215966.6573	149803.9934	215968.9725	149804.5274

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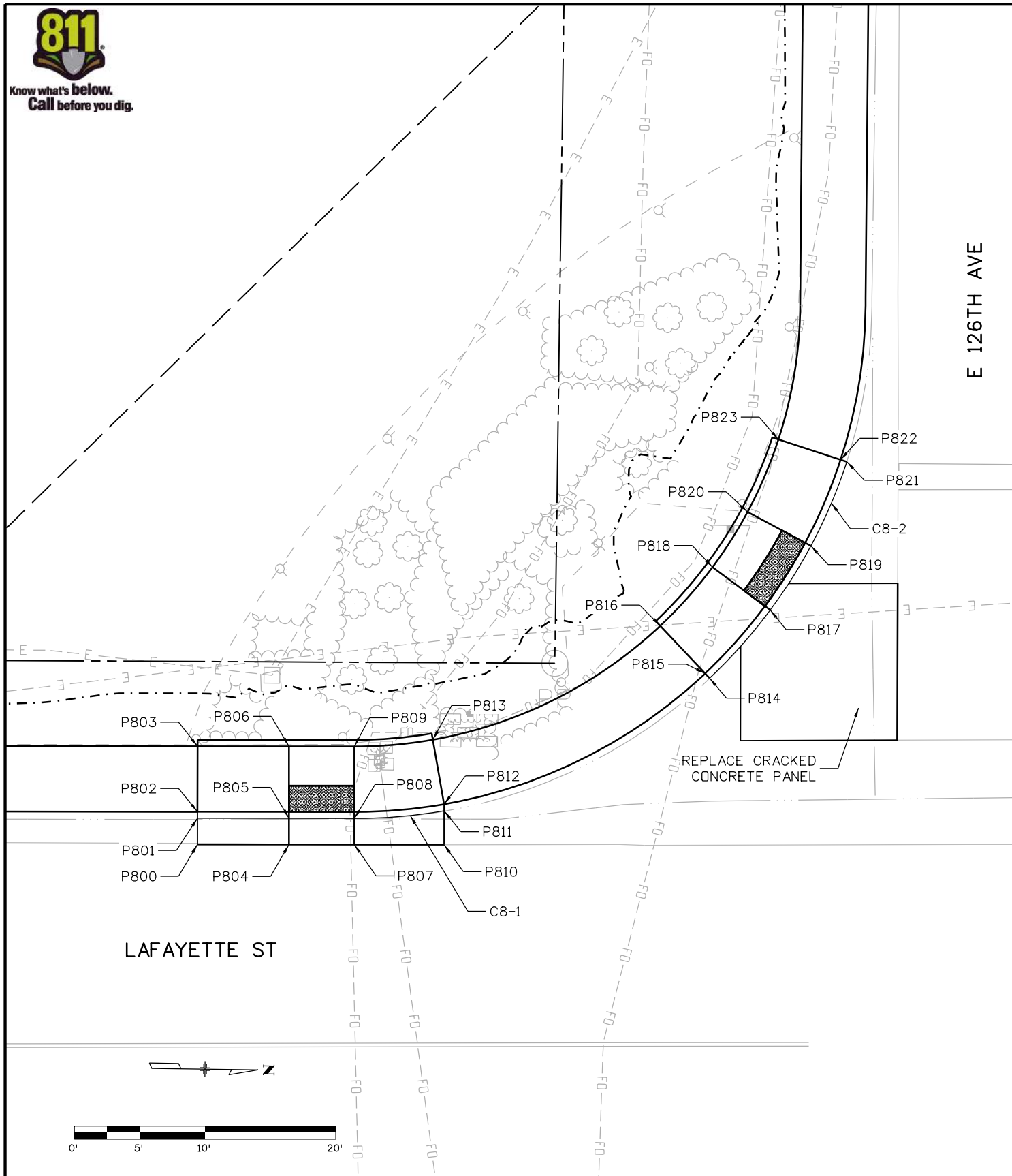
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P800	216181.1315	149809.2911	MATCH EXIST (5293.13)	PAN
P801	216181.1064	149807.2912	MATCH EXIST (5293.01)	FL
P802	216181.1002	149806.7913	MATCH EXIST (5293.46)	BACK OF CURB
P803	216181.0374	149801.7916	5293.54	TOP OF RAMP
P804	216188.1310	149809.2032	MATCH EXIST (5293.00)	PAN
P805	216188.1059	149807.2033	5292.90	FL
P806	216188.0368	149801.7038	5292.98	TURNING SPACE
P807	216193.1306	149809.1404	MATCH EXIST (5292.91)	PAN
P808	216193.1055	149807.1406	5292.81	FL
P809	216193.0364	149801.6410	5292.89	TURNING SPACE
P810	216199.9953	149809.0542	MATCH EXIST (5292.80)	PAN
P811	216199.9628	149806.4658	MATCH EXIST (5292.74)	FL
P812	216199.9564	149805.9581	MATCH EXIST (5293.15)	BACK OF CURB
P813	216199.0236	149801.0459	5293.23	TOP OF RAMP
P814	216220.1254	149796.0514	MATCH EXIST (5292.43)	FL
P815	216219.7780	149795.6918	MATCH EXIST (5292.90)	BACK OF CURB
P816	216216.3040	149792.0957	5292.98	TOP OF RAMP
P817	216224.6992	149790.7745	5292.39	FL
P818	216220.2410	149787.5536	5292.50	TURNING SPACE
P819	216227.7431	149785.8332	MATCH EXIST (5292.36)	FL
P820	216222.8610	149783.3003	5292.47	TURNING SPACE
P821	216230.4032	149779.3593	MATCH EXIST (5292.33)	FL
P822	216229.9257	149779.2109	MATCH EXIST (5292.78)	BACK OF CURB
P823	216225.1507	149777.7278	5292.86	TOP OF RAMP

CURVE INFORMATION TABLE					
CURVE NUMBER	RADIUS (FT)	PC		PT	
		NORTHING	EASTING	NORTHING	EASTING
C8-1	39.5	216193.1768	149807.1397	216199.9628	149806.4658
C8-2	39.5	216220.1254	149796.0514	216230.4032	149779.3593

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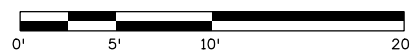
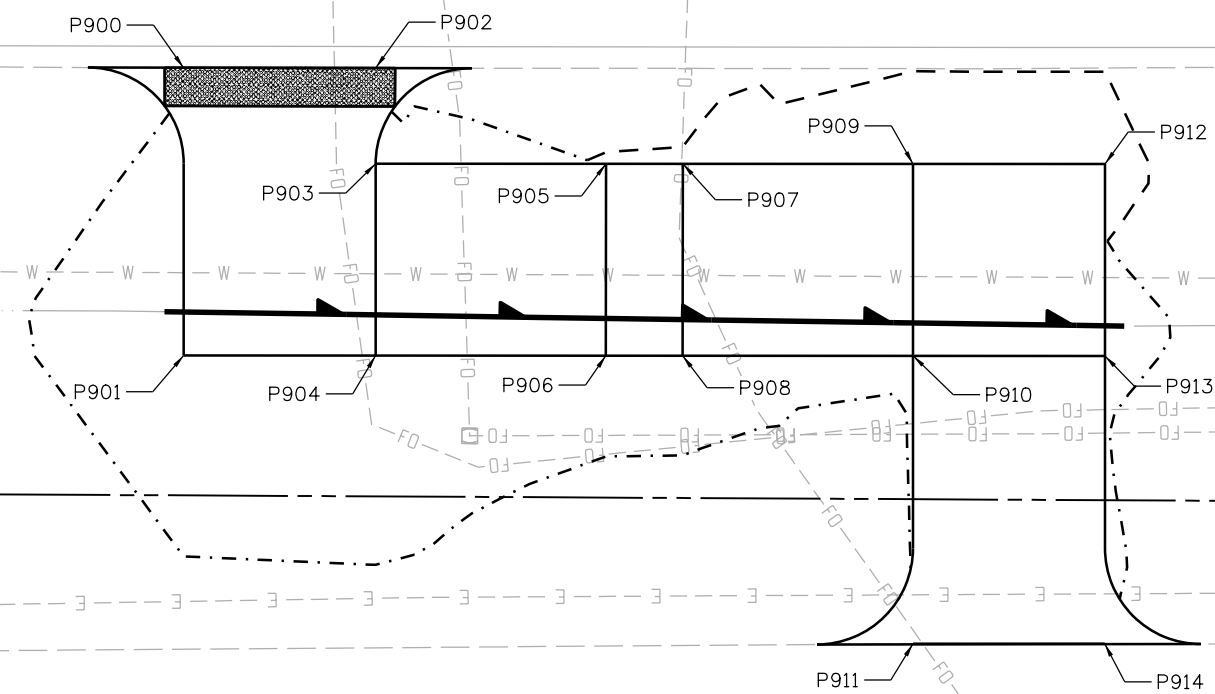
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POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P900	216186.0029	149836.9825	MATCH EXIST (5293.37)	EDGE OF ROAD
P901	216186.2008	149851.9618	5293.07	TURNING SPACE
P902	216196.0020	149836.8504	MATCH EXIST (5293.17)	EDGE OF ROAD
P903	216196.0678	149841.8306	5293.07	TOP OF RAMP
P904	216196.1999	149851.8297	5292.87	TOP OF RAMP
P905	216208.0667	149841.6720	5292.10	TURNING SPACE
P906	216208.1989	149851.6711	5291.90	TURNING SPACE
P907	216212.0664	149841.6191	5292.02	TOP OF RAMP
P908	216212.1985	149851.6183	5291.82	TOP OF RAMP
P909	216224.0654	149841.4606	5291.02	TURNING SPACE
P910	216224.1975	149851.4597	5290.82	TOP OF RAMP
P911	216224.3957	149866.4587	MATCH EXIST (5289.57)	EDGE OF PATH
P912	216234.0645	149841.3284	5290.84	TURNING SPACE
P913	216234.1966	149851.3275	5290.64	TOP OF RAMP
P914	216234.3949	149866.3262	MATCH EXIST (5289.39)	EDGE OF PATH

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Print Date: 9/21/2022  
 File Name: 22552DES\_Detail09.dgn  
 Horiz. Scale: 1:10  
 Unit Information  
 5690 DTC Boulevard, Suite 330W  
 Greenwood Village, CO 80111  
 Phone: 303-221-2330  
 Fax: 303-221-2331  
 www.stofusandassociates.com

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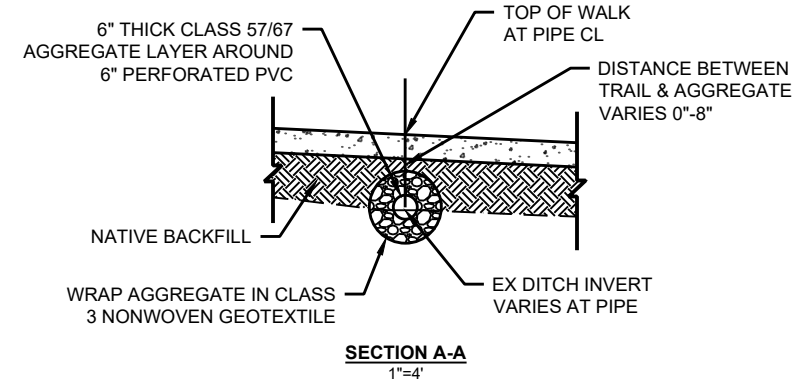
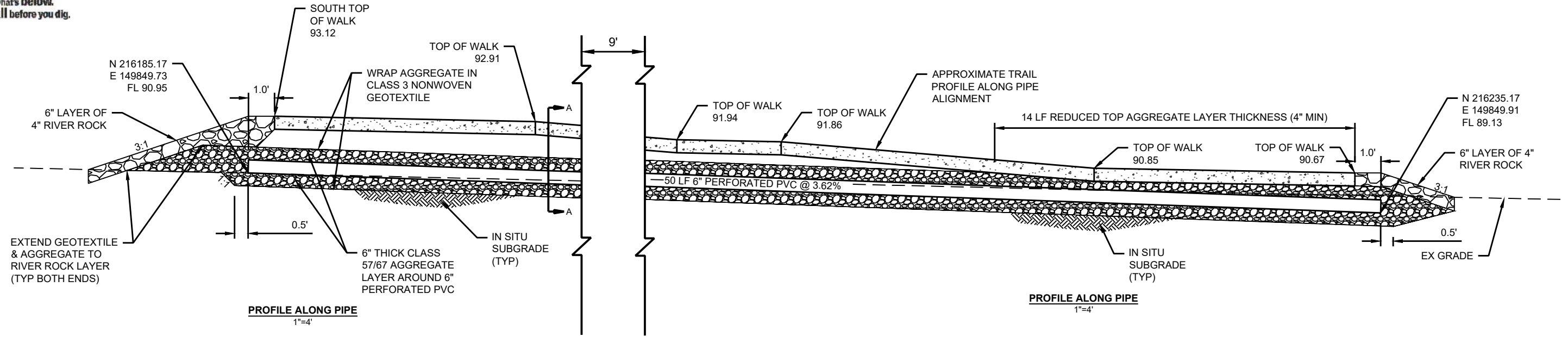
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PEDESTRIAN CURB RAMP DETAIL			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	DETAIL	Subset Sheets:	09 of 09

Project No./Code	SAR M286-046
	22552
Sheet Number	36



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TABULATION OF DRAINAGE							
ROADWAY	STATION	SIDE	506-00010		605-82200		REMARKS
			RIPRAP (SPECIAL)		6" FRENCH DRAIN		
			PLAN	AS CONST.	PLAN	AS CONST.	
LAFAYETTE ST	2008+60 TO 2009+60	RT	0.5		58		
<b>TOTALS</b>			<b>0.5</b>		<b>58</b>		

Print Date: 10/28/2020  
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 Horiz. Scale: 1:4      Vert. Scale: As Noted  
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 Void:

**TRAIL CONNECTION CULVERT**

Designer: JN  
 Detailer: JN  
 Sheet Subset: HYDR

Structure Numbers:  
 Subset Sheets: 1 of 1

**Project No./Code**  
 SAR M286-046  
 22552  
 Sheet Number **37**

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### General Erosion and Sediment Control Notes

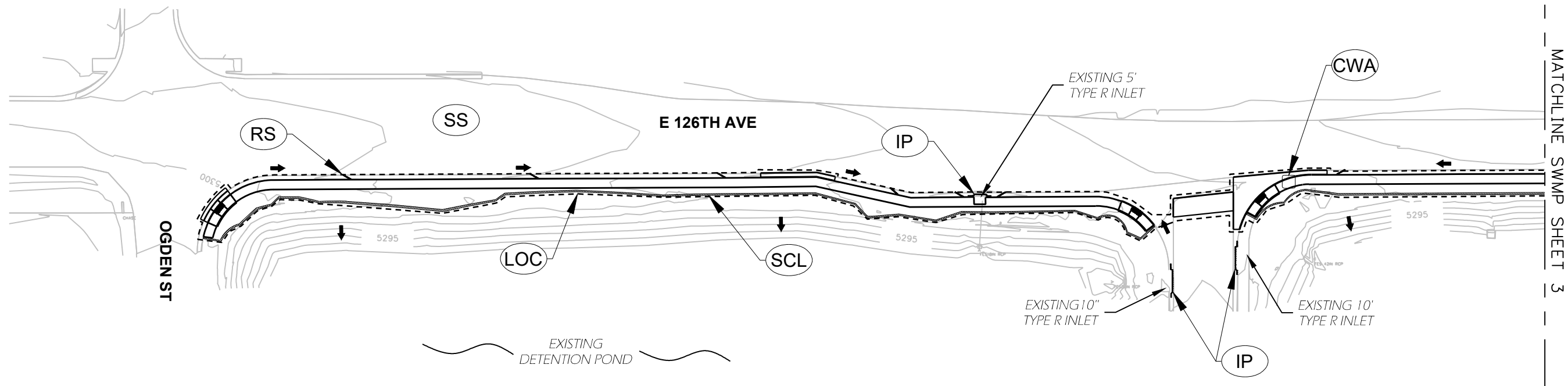
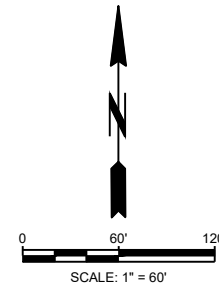
1. Control Measures shall be installed before any earth disturbing activities commence.
2. The Owner/Contractor shall notify the Thornton inspector once all initial control measures have been installed for an initial inspection at least Forty Eight (48) hours prior to the inspection. Construction activity cannot begin until a passing initial inspection has occurred.
3. Stormwater discharges from construction activities shall not cause, have the reasonable potential to cause, or measurably contribute to exceed any water quality standard.
4. Construction shall be phased in a manner to limit earth disturbing activities (i.e. the entire project site should not be disturbed if construction will only be occurring in one particular section).
5. Sediment caused by accelerated soil erosion shall be removed from runoff water before it leaves the construction site.
6. Bulk storage structures for petroleum products and any other chemicals shall have secondary containment or equivalent protection to contain all spills and prevent any spilled material from entering the MS4 or State waters.
7. A copy of the SWMP and Erosion and Sediment Control (ESC) Plans must be available at all times on the construction site unless otherwise approved by CDPHE or Thornton.
8. The SWMP and EC plan shall be continuously updated to reflect new or revised Control Measures (CM) due to changes in design, construction, operation, or maintenance of the construction site. Updates must be made within 72-hours following the change in Control Measures.
9. The Owner/Contractor shall inspect the construction site (including all Control Measures, storage containers, and construction equipment) at a minimum of every 7 calendar days or every 14 calendar days. If on the 14 day frequency a 24-hour post storm inspection must be conducted after a precipitation event or snow melt. Inspections shall continue until an Inactivation Notice is filed with CDPHE.
10. The Owner/Contractor shall keep a record of all inspections on site and available for review by CDPHE or City staff. Inspection reports must identify any incidents of non-compliance with the terms and conditions of the Permit.
11. Control Measures requiring maintenance or adjustment shall be repaired immediately after observation of the failing Control Measure.
12. Silt fence patching: patching is only allowed on the top half of the fence. Not more than two (2) patches per section of fence. Silt fence with holes or deterioration on the lower half of the fence must be replaced. Repair typically involves replacing the silt fence to maintain the CMs effectiveness to drain slowly and function as originally designed.
13. For all instances of noncompliance based on environmental hazards and chemical spills and releases, all needed information must be provided orally to CDPHE spill reporting line (24-hour number for environmental hazards and chemical spills and releases: 1-877-518-5608) within 24-hours from the time the Owner/Contractor becomes aware of the circumstances.
14. Straw bales shall not be used for primary erosion or sediment control (i.e. straw bales may be used for reinforcement behind another BMP such as silt fence).
15. Control measures referred to as "Cutback Curb" are not allowed. The cutback curb may become ineffective and may also compromise the integrity of the curb and in most cases does not provide any water quality benefit for filtering out sediment.
16. Control Measures intended for sheet flow sediment runoff shall be placed parallel to the slope.
17. All Control Measures shall be cleaned when sediment levels accumulate to half the design of the CM unless otherwise specified.
18. A Vehicle Tracking Control (VTC) shall be placed at all exits from the site to prevent track-out onto Thornton streets. If track-out does occur, the Owner/Contractor shall immediately sweep the street of debris. Recycled crushed concrete or asphalt shall not be used for vehicle tracking pads.
19. All sediment collected in Control Measures shall be removed upon initial acceptance.
20. Permanent erosion control measures for slopes, channels, ditches, or any disturbed land area shall be completed within 14 calendar days after final grading or the final earth disturbance has been completed. When it is not possible to permanently stabilize a disturbed area after an earth disturbance has been completed or where significant earth disturbance activity ceases, temporary soil erosion control measures shall be implemented within 14 calendar days. Temporary erosion control measures shall be maintained until permanent soil erosion measures are implemented.
21. Final stabilization has been achieved when all earth disturbing activities at the site have been completed, and uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels, or equivalent permanent, physical erosion reduction methods have been employed.
22. All temporary Control Measures shall be removed from the site upon submitting the Inactivation Notice.
23. All site wastes (including trash and building materials) must be properly managed to prevent potential pollution discharges to the MS4 or State waters.
24. Street repair operations such as rotor milling, slurry seal and chip seal. The minimum CMs required are; inlet protection, curb socks and street sweeping.

This list is not intended to be all inclusive, but is intended to identify the general notes identified by the City to be included as part of the ESC plans/SWMP for compliance with the City's stormwater management requirements for construction activities.

Print Date: 6/24/2022		<b>Sheet Revisions</b>			 Colorado Department of Transportation 2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007	 City of Thornton 9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226	<b>As Constructed</b>		<b>EROSION AND SEDIMENT CONTROL GENERAL NOTES</b>			<b>Project No./Code</b>	
File Name: 04045-S-ESC Plans.dgn		Date:	Comments	Init.			No Revisions:			SAR M286-046			
Horiz. Scale:                      Vert. Scale: As Noted					Revised:	Designer:		Structure Numbers		22552			
 720 SOUTH COLORADO BOULEVARD SUITE 410 S DENVER, CO 80246 PHONE (303) 757-3655 WWW.RESPEC.COM					Void:	Sheet Subset: SWMP		Subset Sheets: 1 of 14		Sheet Number <b>38</b>			



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**BMP LEGEND**

- (CWA) CONCRETE WASHOUT AREA
- (IP) INLET PROTECTION
- (LOC) LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBANCE
- (PS) PERMANENT SEEDING
- (RS) ROCK SOCK
- (SCL) SEDIMENT CONTROL LOG
- (SSA) STABILIZED STAGING AREA
- (SS) STREET SWEEPING
- FLOW ARROW

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EROSION AND SEDIMENT CONTROL PLAN			
Designer:	KP	Structure Numbers	
Detailer:	KP		
Sheet Subset:	SWMP	Subset Sheets:	2 of 14

Project No./Code
SAR M286-046
22552
Sheet Number <b>39</b>

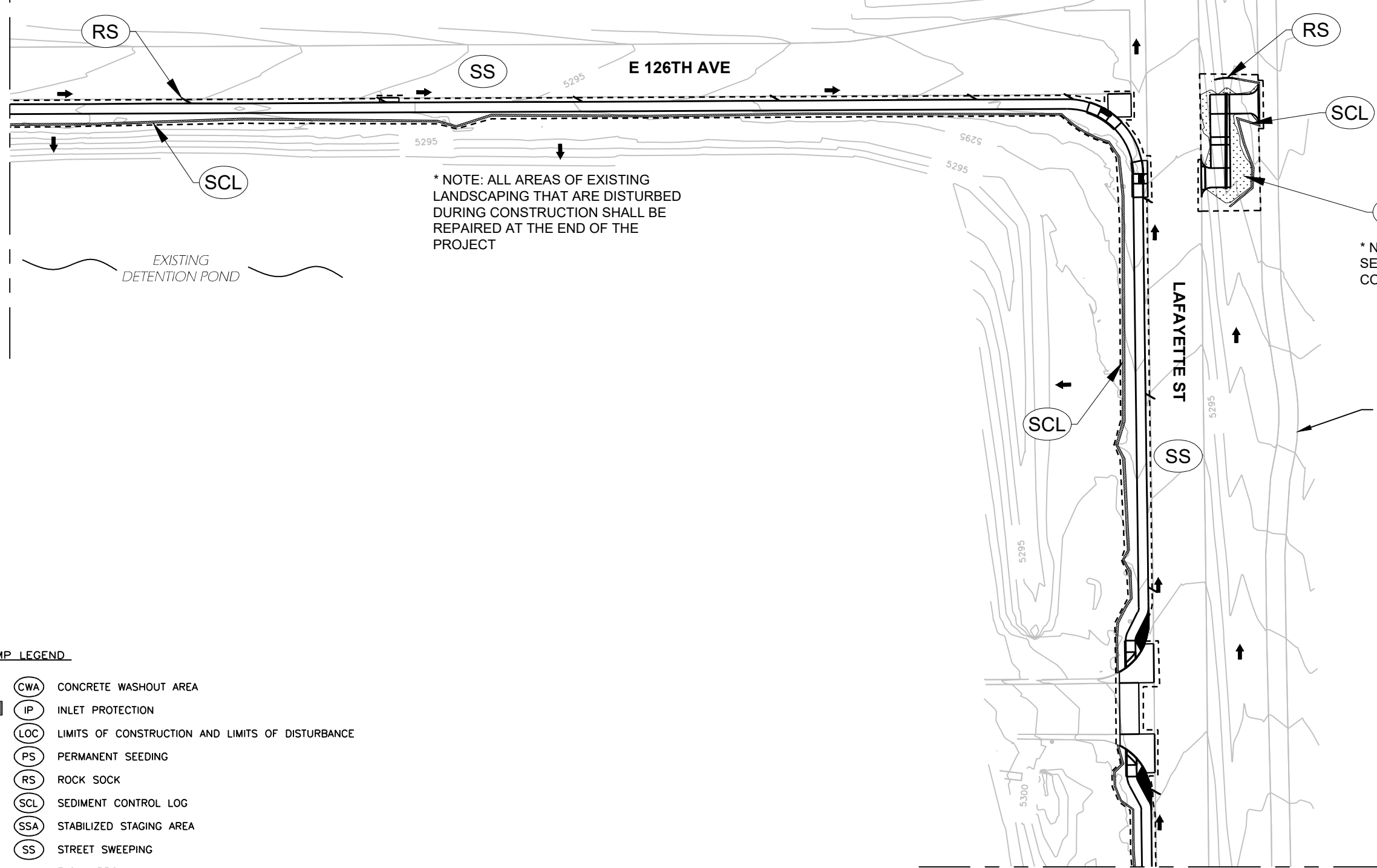
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MATCHLINE SWMP SHEET 2

\*NOTE: RS IN CURB LINE MAX 100'  
SPACING, TYP THROUGHOUT



\* NOTE: ALL AREAS OF EXISTING  
LANDSCAPING THAT ARE DISTURBED  
DURING CONSTRUCTION SHALL BE  
REPAIRED AT THE END OF THE  
PROJECT

\* NOTE: ALL PERMANENT NATIVE  
SEEDING TO BE COVERED BY EROSION  
CONTROL BLANKET

**BMP LEGEND**

- (CWA) CONCRETE WASHOUT AREA
- (IP) INLET PROTECTION
- (LOC) LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBANCE
- (PS) PERMANENT SEEDING
- (RS) ROCK SOCK
- (SCL) SEDIMENT CONTROL LOG
- (SSA) STABILIZED STAGING AREA
- (SS) STREET SWEEPING
- FLOW ARROW

MATCHLINE SWMP SHEET 4

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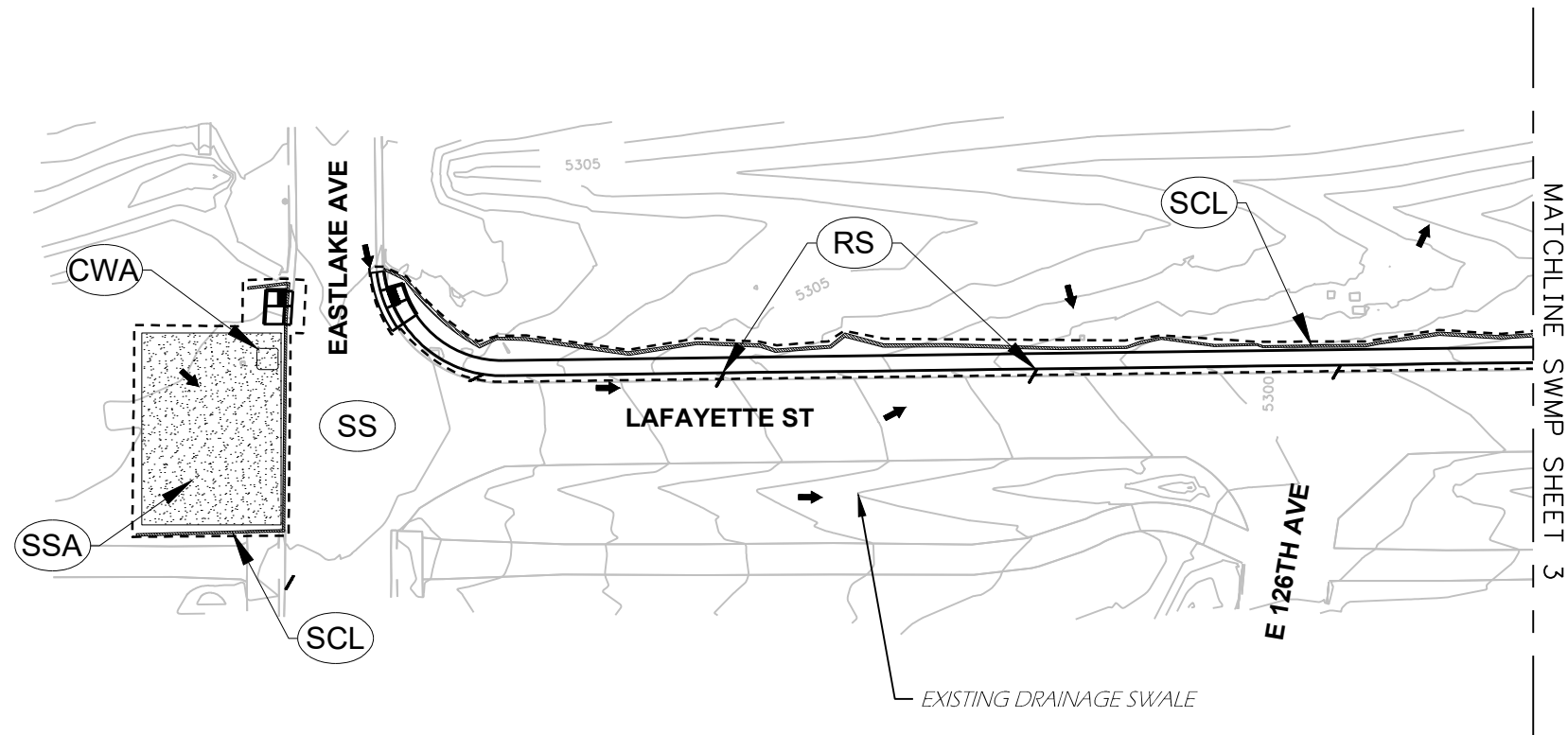
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Designer:	KP	Structure Numbers	
Detailer:	KP		
Sheet Subset:	SWMP	Subset Sheets:	3 of 14

Project No./Code
SAR M286-046
22552
Sheet Number 40





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\* NOTE: STABILIZED STAGING AREA TO RECEIVE PERMANENT NATIVE SEEDING COVERED BY EROSION CONTROL BLANKET AT THE END OF THE PROJECT

**BMP LEGEND**

- CWA CONCRETE WASHOUT AREA
- IP INLET PROTECTION
- LOC LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBANCE
- PS PERMANENT SEEDING
- RS ROCK SOCK
- SCL SEDIMENT CONTROL LOG
- SSA STABILIZED STAGING AREA
- SS STREET SWEEPING
- FLOW ARROW

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<b>EROSION AND SEDIMENT CONTROL PLAN</b>			
Designer:	KP	Structure Numbers	
Detailer:	KP		
Sheet Subset:	SWMP	Subset Sheets:	4 of 14

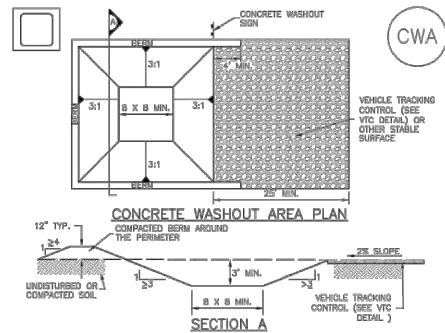
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Sheet Number <b>41</b>

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Concrete Washout Area (CWA) MM-1



- CWA-1. CONCRETE WASHOUT AREA
CWA INSTALLATION NOTES
1. SEE PLAN VIEW FOR...
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY...

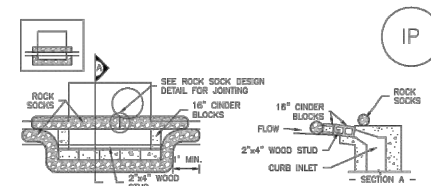
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

Concrete Washout Area (CWA) MM-1

- CWA MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Inlet Protection (IP) SC-6

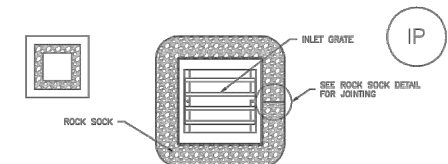


IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

- BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CHISSEL" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW...

IP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Inlet Protection (IP) SC-6

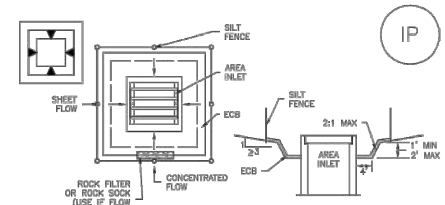


IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

- ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS...

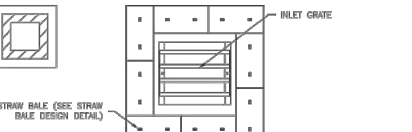
IP-5 SILT FENCE FOR SUMP INLET PROTECTION
SILT FENCE INLET PROTECTION INSTALLATION NOTES
1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET...

Inlet Protection (IP) SC-6



IP-5. OVEREXCAVATION INLET PROTECTION

- OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES
1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA...

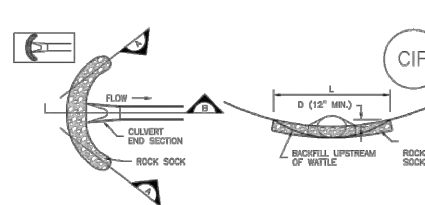


IP-6. STRAW BALE FOR SUMP INLET PROTECTION

- STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES
1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ADJUTING ONE ANOTHER...

IP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Inlet Protection (IP) SC-6



CIP-1. CULVERT INLET PROTECTION

- CULVERT INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR...
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

- CULVERT INLET PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...

IP-7 August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP) SC-6

- GENERAL INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR...
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS)...

- INLET PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...

IP-8 August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

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As Constructed table with rows: No Revisions, Revised, Void.

EROSION AND SEDIMENT CONTROL DETAILS table with rows: Designer, Detailer, Sheet Subset.

Project No./Code table with rows: SAR M286-046, 22552, Sheet Number 42.

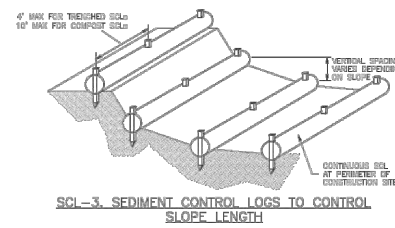
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Sediment Control Log (SCL) SC-2



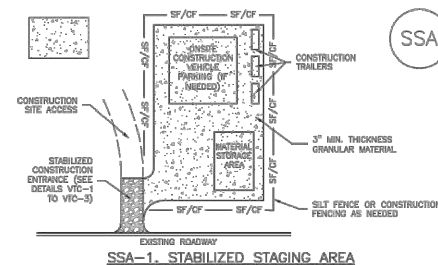
November 2015 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-5

SC-2 Sediment Control Log (SCL)

- SEDIMENT CONTROL LOG INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND CRACKS.
4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOGS. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8\"/>

SCL-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2015

Stabilized Staging Area (SSA) SM-6



- STABILIZED STAGING AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S).
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3\"/>

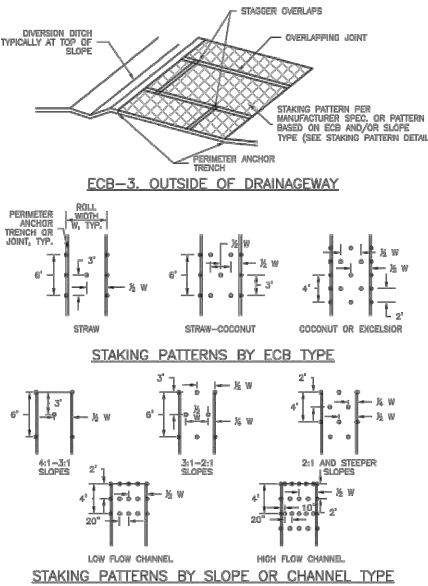
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

SM-6 Stabilized Staging Area (SSA)

- STABILIZED STAGING AREA MAINTENANCE NOTES
5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE AND THE AREA COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AURORA)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Rolled Erosion Control Products (RECP) EC-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-7

EC-6 Rolled Erosion Control Products (RECP)

- EROSION CONTROL BLANKET INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF ECB.
-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).
-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM PINE GRADING, SURFACE PREPARATION AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS
Table with 5 columns: TYPE, COCONUT CONTENT, STRAW CONTENT, EXCELSIOR CONTENT, RECOMMENDED METHOD.

RECP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Rolled Erosion Control Products (RECP) EC-6

- EROSION CONTROL BLANKET MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
5. ANY ECBs PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF FORTIOR, COLORADO, NOT AVAILABLE IN AURORA)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-9

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EROSION AND SEDIMENT CONTROL DETAILS
Designer: KP
Detailer: KP
Sheet Subset: SWMP
Subset Sheets: 7 of 14

Project No./Code
SAR M286-046
22552
Sheet Number 44

Kurt Patrick 12:02:02 PM N:\Projects\W0211 - Thornton\04045\_ Westgate\CAD\Sheets\04045-S-ESC Plans



**SWMP TEMPLATE (PLAN SHEETS) FOR PROJECTS WITH LESS THAN 1 ACRE OF DISTURBANCE (2/25/2022)**

**1. SITE DESCRIPTION**

The Contractor shall comply with all CDOT contractual requirements. The SWMP Administrator for Construction shall update to reflect current project site conditions.

**A. PROJECT SITE LOCATION:**

Location or address of construction office: The project is located within the SE ¼ of the NW ¼ of Section 35, Township 1 South, Range 68 West of the 6<sup>th</sup> Principal Meridian in Adams County, Colorado. The project begins approximately 1,170 feet east of the intersection of Washington Street and E. 126<sup>th</sup> Avenue. The project extends approximately 1,270 feet along the south side of 126<sup>th</sup> Avenue, then south approximately 770 feet along the west side of Lafayette Street.

**B. PROJECT SITE DESCRIPTION:**

The project consists of replacing an existing gravel path with a 5' wide concrete sidewalk on the south side of 126<sup>th</sup> Avenue and the west side of Lafayette Street; a trail connection from Lafayette Street to the existing Highline Canal Trail; the installation of ADA accessible curb ramps; replacement of damaged paving and curb and gutter; and minor signage and striping. The concrete sidewalk installation will maintain the line and grade of the existing gravel path resulting in very minor grading. The site includes existing landscaping and turf adjacent to the existing gravel path, any landscaping damage will be repaired when the project is completed. The proposed trail connection will disturb existing native vegetation and will be reseeded with an approved native seed mix at the completion of the project.

**C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:**

The sequence of construction is assumed to be as follows: Installation of all proposed control measures, clearing and grubbing to remove the existing gravel trail and vegetation, minor grading along the trail alignment, installation of the drainage pipe at the trail connection, removal of any existing concrete or asphalt as called out in the construction plans, placement of the concrete trail, revegetation.

**D. ACRES OF DISTURBANCE:**

1. Total area of construction site (LOC): 0.80 acres
2. Total area of proposed disturbance (LDA): 0.80 acres
3. Total area of seeding: 0.01 acres

**E. EXISTING SOIL DATA:**

Existing site soils consist of mostly loam with clay loam and silty clay at lower depths. All soils fall within hydrologic group C resulting in slow infiltration rates when thoroughly wet.

Data Source(s): Web Soil Survey

**F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:**

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

The SWMP Administrator for Construction shall conduct the Vegetation Transects prior to any site disturbance.

Pre-Construction Date of survey: \_\_\_\_\_ Percent Existing Vegetative Cover: \_\_\_\_\_

Description of existing vegetation:

Method for determining percent vegetative cover:

Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

Post-Construction Date of survey: \_\_\_\_\_ Percent Vegetative Cover: \_\_\_\_\_

Description of vegetation:

The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

**2. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

**A. POTENTIAL POLLUTANT SOURCES**

Refer to Potential Pollutant Sources in SWMP Section 4A. Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place any Control Measures required to contain potential pollutants.

**B. OFFSITE DRAINAGE (RUN ON WATER):**

Place Control Measures to address run-on water in accordance with subsection 208.03.

**C. CONSTRUCTION DEWATERING:**

Obtain a CDPHS Dewatering Permit from CDPHE if conditions of their Low Risk Guidance for Discharges of Uncontaminated Groundwater to Land are not met; see subsections 107.02 and 107.25.

Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land.

<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

**D. VEHICLE TRACKING CONTROL:**

Control Measures shall be implemented in accordance with subsection 208.04.

**E. PERIMETER CONTROL:**

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.

Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other Control Measures as approved.

**3. QUALIFIED STORMWATER MANAGERS:**

**A. SWMP ADMINISTRATOR FOR DESIGN:**

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Charles Beebe/Water Quality Compliance Specialist	720-775-6417, charles.beebe@RESPEC.com	8E258599

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:**

(As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining, and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

**C. PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207

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and 212 Project Special Provisions as follows, and will be available for questions regarding permanent stabilization requirements.  
[https://www.codot.gov/programs/environmental/landscape-architecture/assets/inspection-and-verification-checklist-for-roadside-revegetation -111621\\_v3.pdf](https://www.codot.gov/programs/environmental/landscape-architecture/assets/inspection-and-verification-checklist-for-roadside-revegetation -111621_v3.pdf)

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-construction Conference.
3. Coordinate the Site Pre-vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]
Rebecca Wertz/ Thornton MS4 Administrator	720-977-6238, Rebecca.wertz@thorntonco.gov

**4. 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 Contractor in accordance with Section 208

**A. MATERIALS HANDLING AND SPILL PREVENTION:**

prior to construction commencing the Contractor shall submit a Spill Prevention, Control and Countermeasure Plan, see subsection 208.06. Materials handling shall be in accordance with subsection 208.06.

**B. OTHER CDPS PERMITS:**

List applicable CDPS permits associated with the permitted site and activities.

**C. STOCKPILE MANAGEMENT:**

shall be done in accordance with subsections 107.25 and 208.07

**D. CONCRETE WASHOUT:**

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

**E. SAW CUTTING:**

shall be done in accordance with subsections 107.25, 208.04, 208.05

**F. STREET SWEEPING:**

shall be done in accordance with subsection 208.04

**5. CONTROL MEASURE MAINTENANCE**

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

**6. INTERIM AND PERMANENT STABILIZATION**

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

**A. SEEDING PLAN**

The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Buffalograss	Buchloe dactyloides	37
Blue Grama	Bouteloua gracillis	8
<b>TOTAL</b>		

**B. SEEDING APPLICATION:**

The following seeding methods shall be used for all areas which are not surfaced and as shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00706	Seeding (Native) Drill	
212-00707	Seeding (Native) Hydraulic	
212-00708	Seeding (Native) Broadcast	0.01
212-00709	Seeding (Wetland) Drill	
212-00710	Seeding (Wetland) Hydraulic	
212-00711	Seeding (Wetland) Broadcast	
<b>Total</b>		<b>0.01</b>

The Contractor shall provide the location of where seed is stored and access to stored seed locations to the Engineer. Seed stored by the Contractor for longer than 30 days will be rejected.

**C. MULCHING APPLICATION:**

Apply a minimum of 2 tons/ac of certified weed free hay or 2 1/2 tons/ac of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

Prior to winter shutdown or the summer seeding window closure; 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 in accordance with Sections 208 and 213.

**D. SPECIAL REQUIREMENTS:**

Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department. Permanent stabilization mulching shall be accomplished within 24 hours of hydraulic application of native seed.

The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how the SWMP Permanent Stabilization Plans will be implemented to minimize damage to seeded areas.

**E. SOIL AMENDMENT REQUIREMENTS:**

Soil amendment specification section deleted per Brendan Howell.

**F. SOIL RETENTION COVERING:**

On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier and placed after seeding (native). See SWMP Site Map for blanket/trm locations.

**G. PERMANENT STABILIZATION APPLICATION UNDER STRUCTURES:**

Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

**H. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to partial acceptance.

All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Engineer 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.

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**7. PRIOR TO PROJECT FINAL ACCEPTANCE**

1. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
2. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
3. All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert.
4. Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work

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**8. NARRATIVES:**

**Control Measure Matrixes During Construction:**

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

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

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT 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.			B	X	
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.			B	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.	M-208		B	X	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		B	X	X
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
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.	M-208				
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.	M-208				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, 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 stockpile, increase control as stockpile increases size.	M-208			X	
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.	M-208		X	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. *Can be used to stockpile topsoil for salvage.	M-208		B	X	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION	Material placed as energy dissipater to prevent erosion at outlet structure.	M-601-12				

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**SWMP**

Designer: KP  
 Detailer: KP  
 Sheet Subset: SWMP  
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 Sheet Number **48**





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APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
Riprap, or approved other						
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	M-208		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	M-208				
Engineered SEDIMENT BASIN	Constructed early in project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					
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.					
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.					
OTHER						

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 SUITE 410 S  
 DENVER, CO 80246  
 PHONE (303) 757-3655  
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Colorado Department of Transportation  
  
 Region 1  
 2829 W. Howard Place  
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 Phone: 303-757-9007  
  
 City of Thornton  
 9500 Civic Center Dr  
 Thornton, CO 80229  
 Phone: 720-977-6226

As Constructed	SWMP	
No Revisions:	Designer: KP	Structure Numbers
Revised:	Detailer: KP	
Void:	Sheet Subset: SWMP	Subset Sheets: 12 of 14

Project No./Code
SAR M286-046
22552
Sheet Number 49



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

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
VEGETATIVE BUFFER STRIP	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure 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. Area to be identified on SWMP prior to construction starting.	M-208				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of four inches or as specified.	M-208				
SURFACE ROUGHENING / GRADING TECHNIQUES	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 or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a 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.)	Interim or Permanent 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 (NATIVE)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				X
TURF REINFORCEMENT MAT (TRM)	Permanent 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.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

Template Revised: 2.25.2022

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File Name: 04045-S-ESC Plans.dgn		Date:	Comments	Init.	2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007		9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226		No Revisions:					SAR M286-046	
Horiz. Scale: Vert. Scale: As Noted					Region 1				Revised:		Designer: KP	Structure	22552		
RESPEC 720 SOUTH COLORADO BOULEVARD SUITE 410 S DENVER, CO 80246 PHONE (303) 757-3655 WWW.RESPEC.CDM									Void:		Detailer: KP	Numbers	Sheet Number 50		
											Sheet Subset: SWMP	Subset Sheets: 13 of 14			



**9. TABULATION OF STORMWATER QUANTITIES**

1. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	207-00700	Topsoil (Onsite)	CY			10	10
	208-00012	Erosion Log Type 1 (9 inch)	LF	2360			2360
	208-00035	Aggregate Bag	LF	130			130
	208-00045	Concrete Washout Structure	Each		2		2
	208-00053	Storm Drain Inlet Protection (Type I)(84 Inch)	Each	1			1
	208-00057	Storm Drain Inlet Protection (Type I)(144 Inch)	Each	2			2
	208-00106	Sweeping (Sediment Removal)	Hour	1	1	1	3
	208-00107	Removal of Trash	Hour	.5	.5	.5	1.5
	212-01200	Landscape Restoration	Lump Sum			1	1
	212-00701	Compost (Mechanically Applied)-	CY			3	3
	212-00703	Humate	Pounds			2	2
	212-00708	Seeding (Native) Broadcast	Acre			.01	.01
	216-00101	Soil Retention Blanket (Straw/Coconut) (Photodegradable Class 1)	SY			49	49

\*It is anticipated that additional control measures and control measure 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 subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated, and have been increased for unforeseen conditions and normal control measure life expectancy.** 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.  
 \*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.  
 \*\*\* Using Erosion Control Management Pay Item on the project must be approved by the Regional Environmental Staff and Engineer. See 208.11 for method of measurement for the day pay unit.  
 \*\*\*\* F/A refers to CDOT's Force Account Pay Items.

**10. BIOLOGICAL IMPACTS and DEWATERING**

A. ENVIRONMENTAL IMPACTS:

Wetland Impacts: NO  
 Stream Impacts: NO  
 Threatened and Endangered Species: No species are anticipated to be impacted by the project.

B. DEWATERING:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):  
<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>  
 Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.  
 If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

**11. NOTES**

Template Revised: 2.25.2022

Print Date: 6/24/2022		<b>Sheet Revisions</b>			Colorado Department of Transportation Region 1	City of Thornton	<b>As Constructed</b>		<b>SWMP</b>		<b>Project No./Code</b>	
File Name: 04045-S-ESC Plans.dgn		Date:	Comments	Init.			No Revisions:			SAR M286-046		
Horiz. Scale: Vert. Scale: As Noted					Revised:	Designer: KP	Structure Numbers	22552				
RESPEC 720 SOUTH COLORADO BOULEVARD SUITE 410 S DENVER, CO 80246 PHONE (303) 757-3655 WWW.RESPEC.CDM					Void:	Detailer: KP	Sheet Subset: SWMP	Subset Sheets: 14 of 14	Sheet Number		51	


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TABULATION OF SIGNS																		
SIGN NO.	STREET	DIRECTION	STATION	SIGN CODE	SIGN PANEL SIZE			BACKGROUND COLOR	LEGEND	210-00810	503-00018	614-00011	614-00012	614-00214	614-80001	614-80003	614-84000*	REMARKS
					RESET GROUND SIGN	DRILLED SHAFT (18 INCH)	SIGN PANEL (CLASS I)			SIGN PANEL (CLASS II)	STEEL SIGN POST (1.75X1.75 INCH TUBING)	FLASHING BEACON (SOLAR POWERED)	RECTANGULAR RAPID FLASHING BEACON	TRAFFIC SIGNAL PEDESTAL POLE STEEL				
					EACH	LF	SF			SF	LF	EACH	EACH	EACH				
1	E 126TH AVE	NB	1001+83.90					STOP	1									
2	E 126TH AVE	EB	1002+08.78					NO U-TURN	1									
3	E 126TH AVE	EB	1005+11.63					RIGHT LANE MUST TURN RIGHT	1									
4	LAFAYETTE ST	WB	2001+51.89					NO OUTLET	1									
5	LAFAYETTE ST	SB	2001+75.75					EASTLAKE AVE/LAFAYETTE ST/STOP	1									
6	LAFAYETTE ST	SB	2008+47.97					SPEED LIMIT (35)	1									
7	LAFAYETTE ST	NB	2008+74.68	W11-2	30	x	30	YELLOW	PEDESTRIAN			6 *						COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
				W16-7P(L)	24	x	12	YELLOW	DIAGONAL ARROW		6	2 *			1	1 *		
				W11-501	12	x	12	WHITE	CROSS TRAFFIC MAY NOT STOP USE CAUTION WHEN CROSSING			1 *						
				R10-25	9	x	12	WHITE	PUSH BUTTON TO TURN ON WARNING LIGHTS			1 *						
8	LAFAYETTE ST	SB	2008+84.46	W11-2	30	x	30	YELLOW	PEDESTRIAN			6 *						COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
				W16-7P(L)	24	x	12	YELLOW	DIAGONAL ARROW		6	2 *			1	1 *		
				W11-501	12	x	12	WHITE	CROSS TRAFFIC MAY NOT STOP USE CAUTION WHEN CROSSING			1 *						
				R10-25	9	x	12	WHITE	PUSH BUTTON TO TURN ON WARNING LIGHTS			1 *						
9	LAFAYETTE ST	EB	2009+12.02					126TH AVE/LAFAYETTE ST/STOP	1									
10	LAFAYETTE ST	SB	2010+03.49	R10-7	24	x	30	WHITE	DO NOT BLOCK INTERSECTION									
11	WASHINGTON ST	NB	OUTSIDE OF PROJECT LIMITS	S1-1	36	x	36	YELLOW/GREEN	SCHOOL				9					
				W16-9P	24	x	12	YELLOW/GREEN	AHEAD (PLAQUE)			2				57		
12	WASHINGTON ST	SB	OUTSIDE OF PROJECT LIMITS	R2-1	30	x	36	WHITE	SPEED LIMIT (45)				8					
				S5-2	24	x	30	WHITE	END SCHOOL ZONE			5				75		
13	WASHINGTON ST	NB	OUTSIDE OF PROJECT LIMITS	S5-1	24	x	48	WHITE	SCHOOL SPEED LIMIT 25 WHEN FLASHING				8 *					
				R2-6P	24	x	18	WHITE	FINES HIGHER (PLAQUE)		5				1		1 *	COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
14	WASHINGTON ST	SB	OUTSIDE OF PROJECT LIMITS	S5-1	24	x	48	WHITE	SCHOOL SPEED LIMIT 25 WHEN FLASHING				8 *					
				R2-6P	24	x	18	WHITE	FINES HIGHER (PLAQUE)		5				1		1 *	COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
15	WASHINGTON ST	SB	OUTSIDE OF PROJECT LIMITS	S1-1	36	x	36	YELLOW/GREEN	SCHOOL				9					
				W16-9P	24	x	12	YELLOW/GREEN	AHEAD (PLAQUE)			2				57		
16	WASHINGTON ST	NB	OUTSIDE OF PROJECT LIMITS	R2-1	30	x	36	WHITE	SPEED LIMIT (45)				8					
				S5-2	24	x	30	WHITE	END SCHOOL ZONE			5				75		
17	E 126TH AVE	EB	OUTSIDE OF PROJECT LIMITS	S5-1	24	x	48	WHITE	SCHOOL SPEED LIMIT 25 WHEN FLASHING				8 *					
				R2-6P	24	x	18	WHITE	FINES HIGHER (PLAQUE)		5				1		1 *	COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
18	E 126TH AVE	EB	OUTSIDE OF PROJECT LIMITS	R2-1	30	x	36	WHITE	SPEED LIMIT (35)				8					
				S5-2	24	x	30	WHITE	END SCHOOL ZONE			5				75		
19	E 126TH AVE	WB	OUTSIDE OF PROJECT LIMITS	S5-1	24	x	48	WHITE	SCHOOL SPEED LIMIT 25 WHEN FLASHING				8 *					
				R2-6P	24	x	18	WHITE	FINES HIGHER (PLAQUE)		5				1		1 *	COMPLETE IN PLACE, INCLUDING SIGNS AND POLES
20	E 126TH AVE	WB	OUTSIDE OF PROJECT LIMITS	S1-1	36	x	36	YELLOW/GREEN	SCHOOL				9					
				W16-9P	24	x	12	YELLOW/GREEN	AHEAD (PLAQUE)			2				57		
<b>TOTALS (FOR INFORMATION ONLY)</b>									7	32	58 *	82 *	435	4	2	6*		
<b>TOTALS - ACTUAL BID QUANTITY</b>									7	32	26	50	435	4	2	0		



\*Included in cost of Flashing Beacon or Rectangular Rapid Flashing Beacon. Quantity included for information only.

TABULATION OF STRIPING		
STREET	202-00250	627-30411
	REMOVAL OF PAVEMENT MARKING	PREFORMED THERMOPLASTIC PAVEMENT MARKING
	SF	SF
E 126TH AVE	40	271
LAFAYETTE ST		252
<b>TOTAL (SF)</b>	40	523

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Horiz. Scale: 1:1  
Unit Information  
 5690 DTC Boulevard, Suite 330W  
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Phone: 303-221-2330  
Fax: 303-221-2331  
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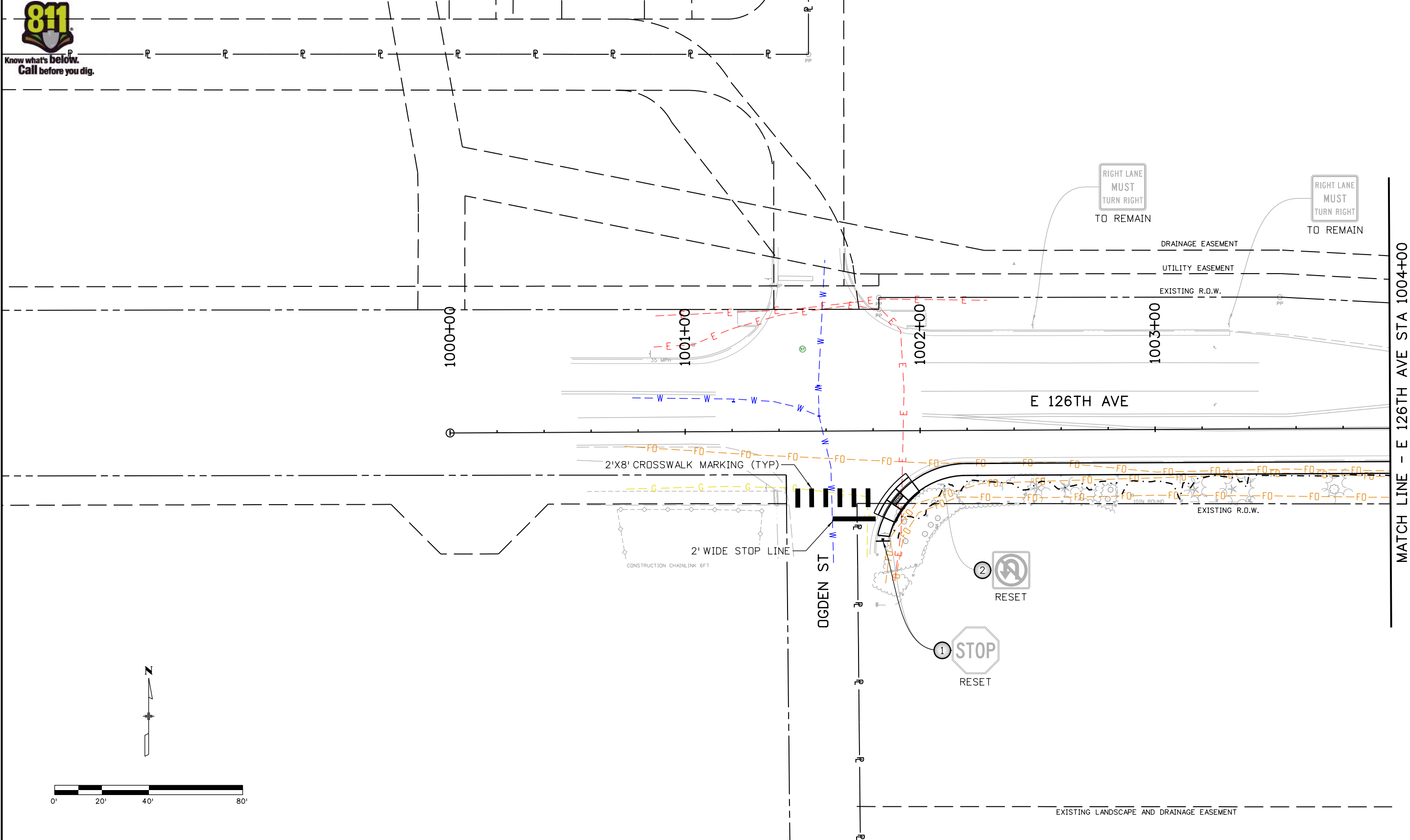
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As Constructed	TABULATION OF SIGNING AND STRIPING		Project No./Code
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Unit Information
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 Phone: 720-977-6226

**Region 1**

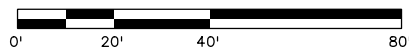
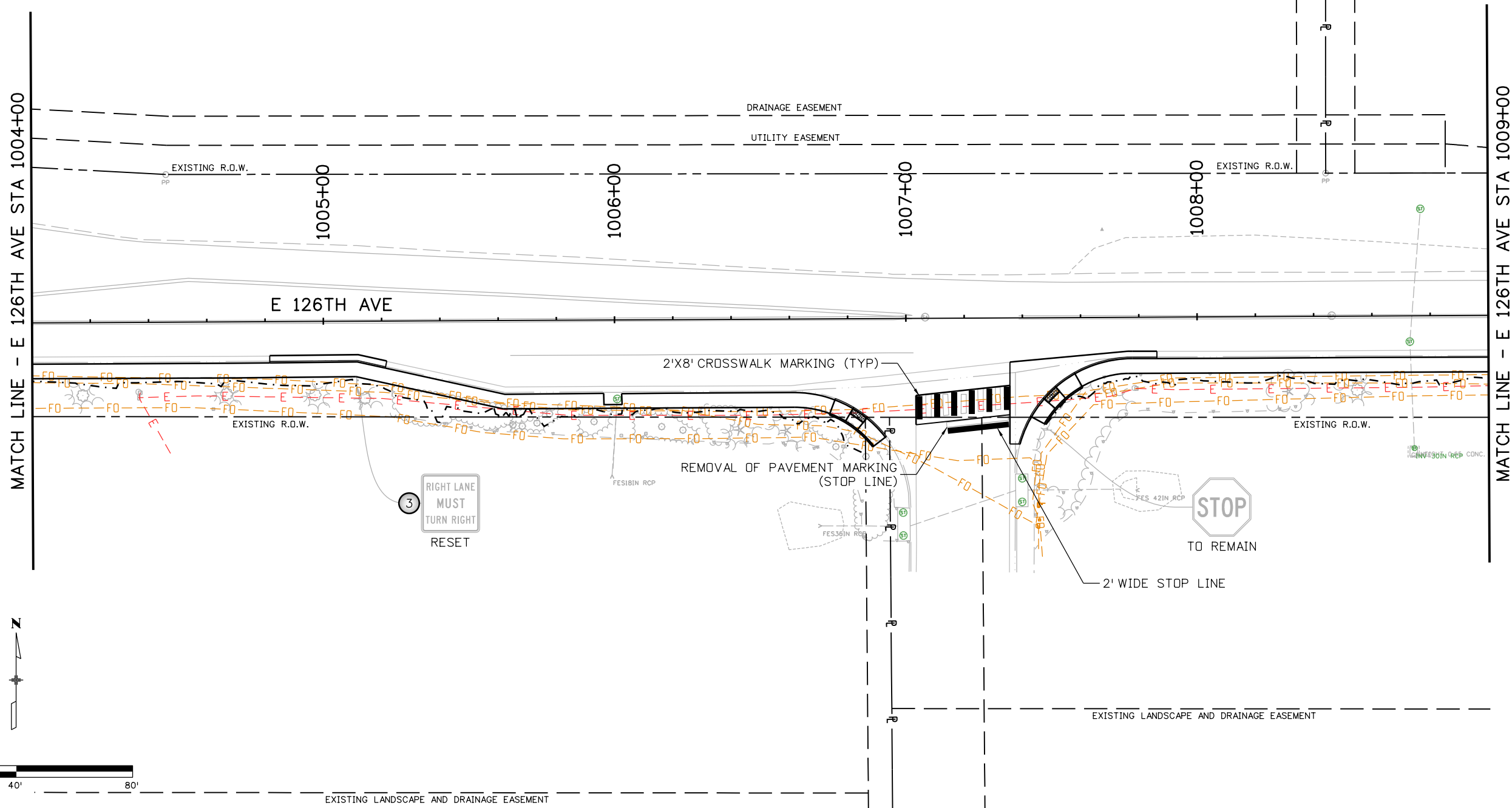
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Detailer:	BTT	Numbers	
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22552
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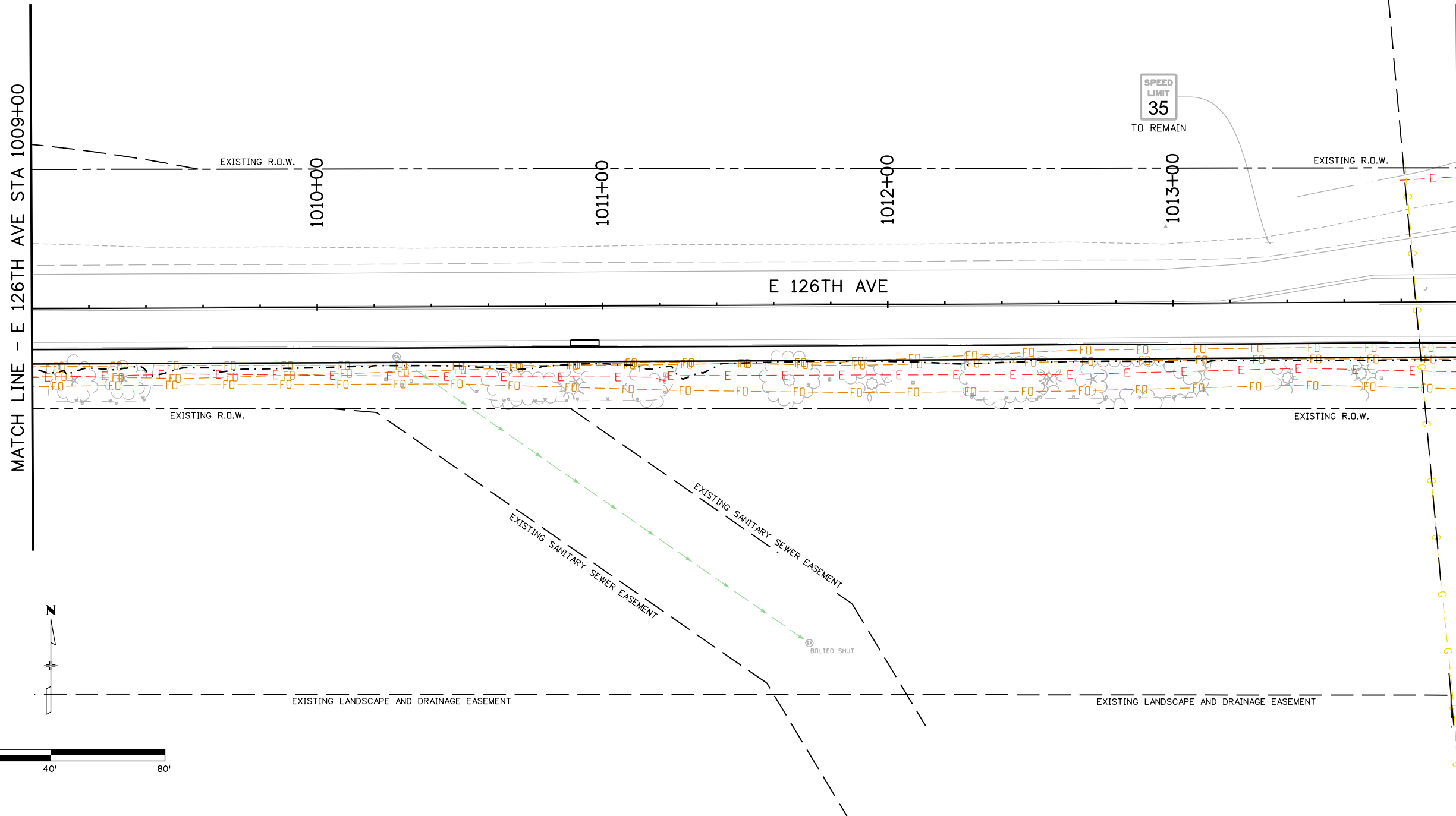
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Know what's below.  
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MATCH LINE - E 126TH AVE STA 1009+00



MATCH LINE - E 126TH AVE STA 1014+00  
SEE SUBSET SHEET 5

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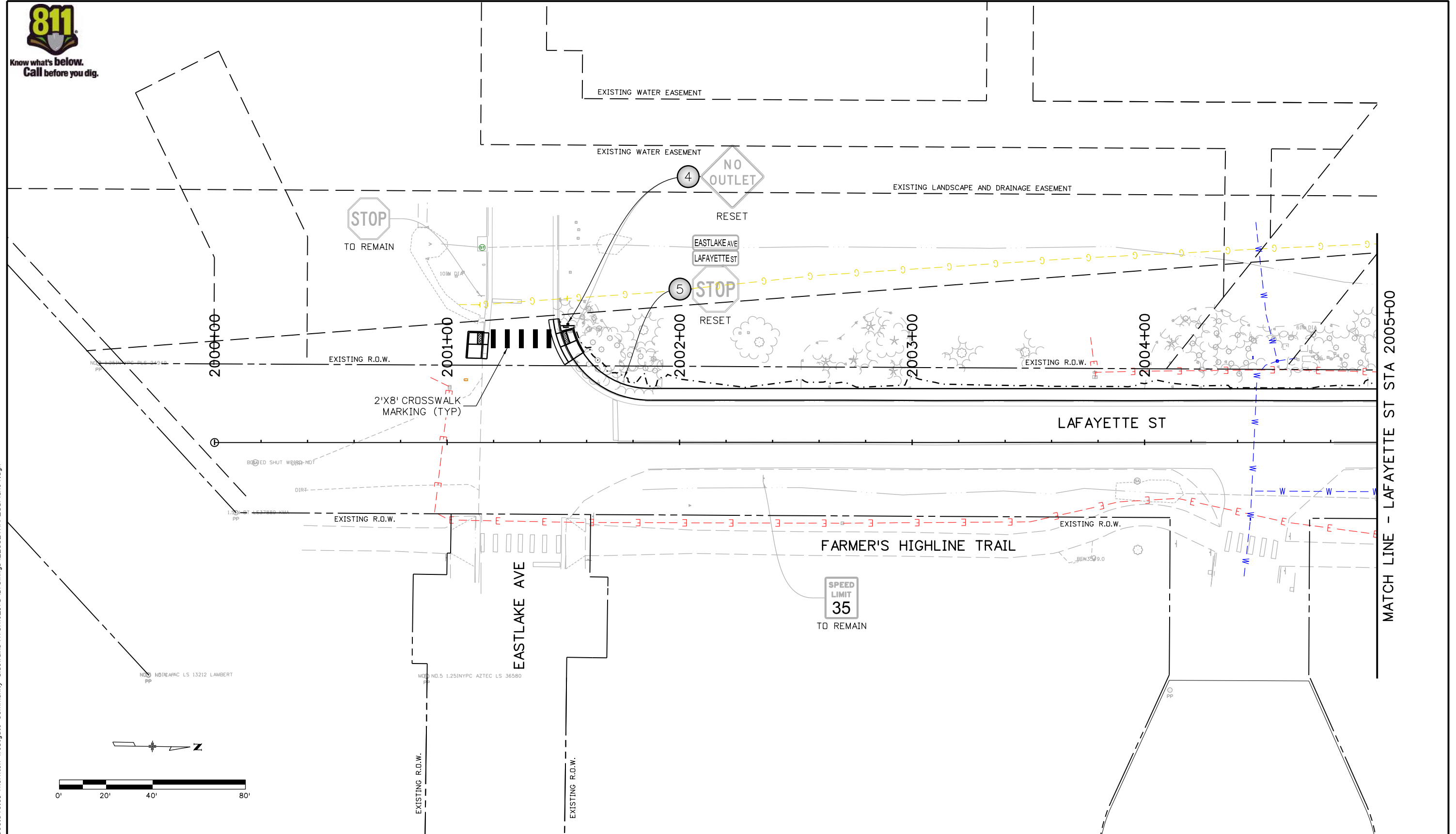
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SAR M286-046
22552
<b>Sheet Number 56</b>





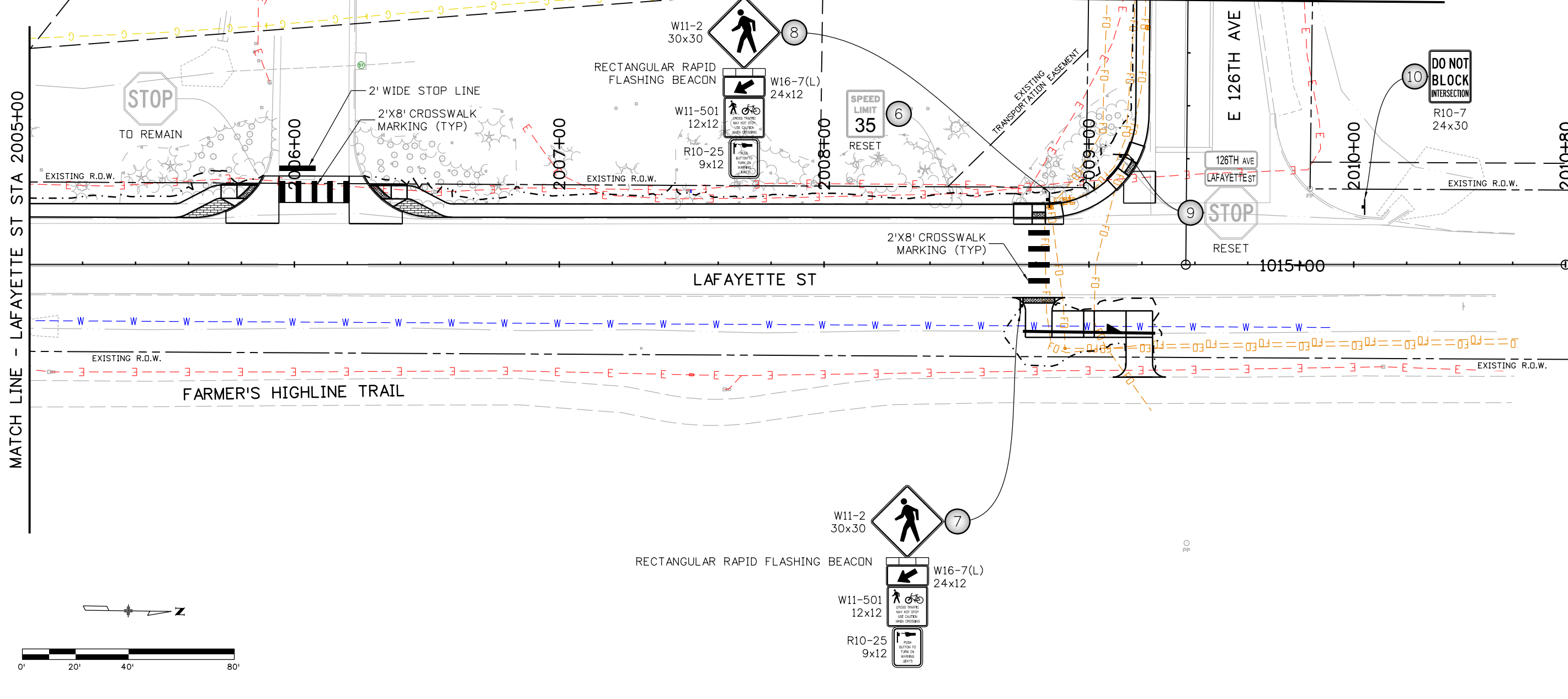
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EXISTING SANITARY SEWER EASEMENT

EXISTING LANDSCAPE AND DRAINAGE EASEMENT

MATCH LINE - E 126TH AVE STA 1014+00 - SEE SUBSET SHEET 3

MATCH LINE - LAFAYETTE ST STA 2005+00



STOP  
TO REMAIN

2' WIDE STOP LINE  
2'X8' CROSSWALK MARKING (TYP)

RECTANGULAR RAPID FLASHING BEACON

W11-2  
30x30

W11-501  
12x12

R10-25  
9x12

W16-7(L)  
24x12

SPEED LIMIT  
35  
RESET

EXISTING EASEMENT  
TRANSPORTATION

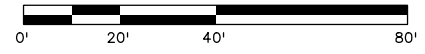
126TH AVE  
LAFAYETTE ST

STOP  
RESET

DO NOT BLOCK INTERSECTION  
R10-7  
24x30

LAFAYETTE ST

FARMER'S HIGHLINE TRAIL



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22552  
Sheet Number 57

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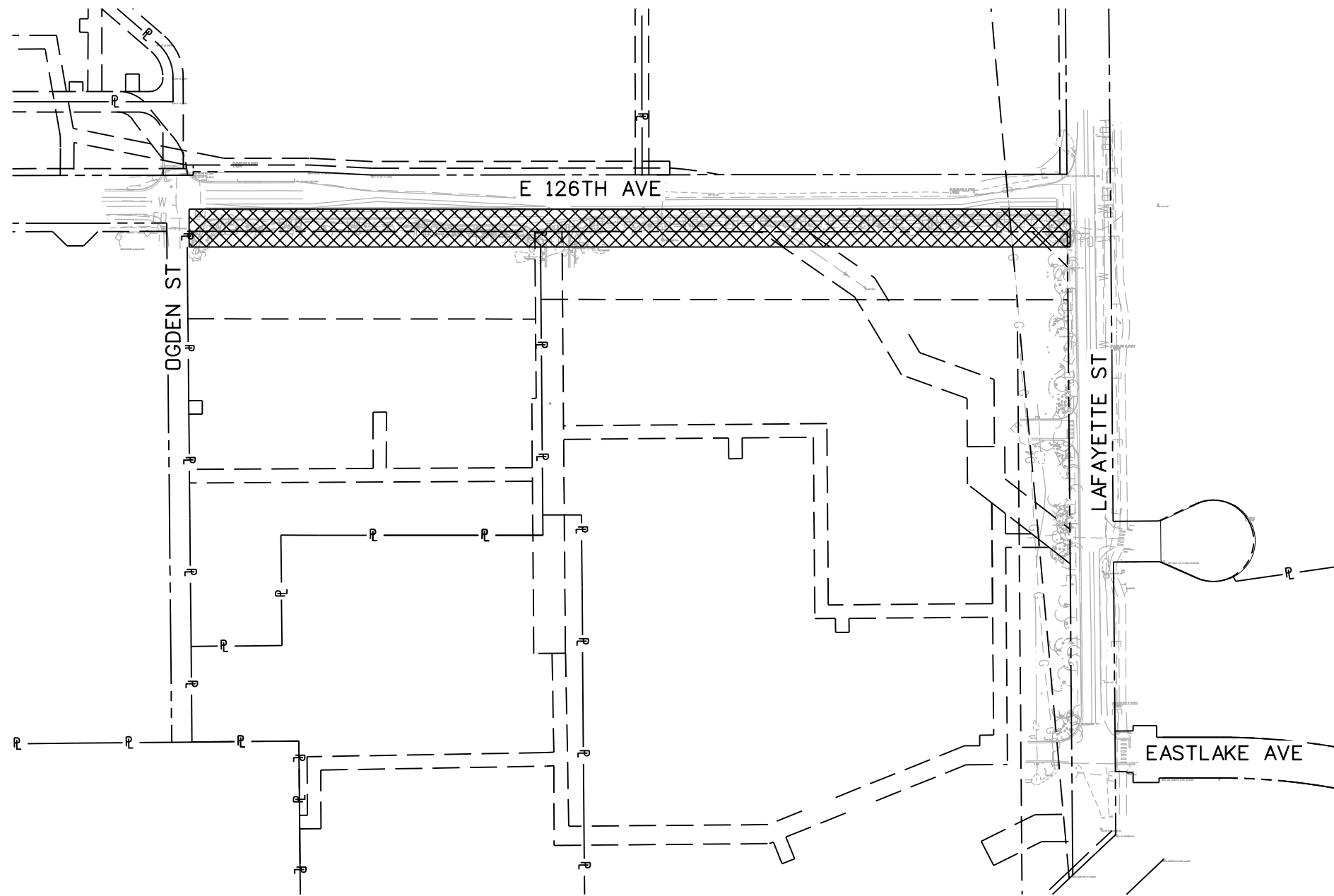
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Void:	Sheet Subset: SS	Subset Sheets: 06 of 06	Sheet Number <b>58</b>																		



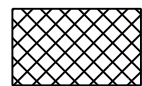
Know what's below.  
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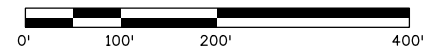
**SUGGESTED CONSTRUCTION SEQUENCE NOTES:**

1. CONSTRUCT SIDEWALK AND CURB RAMPS ALONG E 126TH AVE USING TA-6 AND TA-29.

**LEGEND:**



WORK AREA



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Sheet Revisions		
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 Phone: 303-757-9007  
 Region 1

City of Thornton  
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 Thornton, CO 80229  
 Phone: 720-977-6226

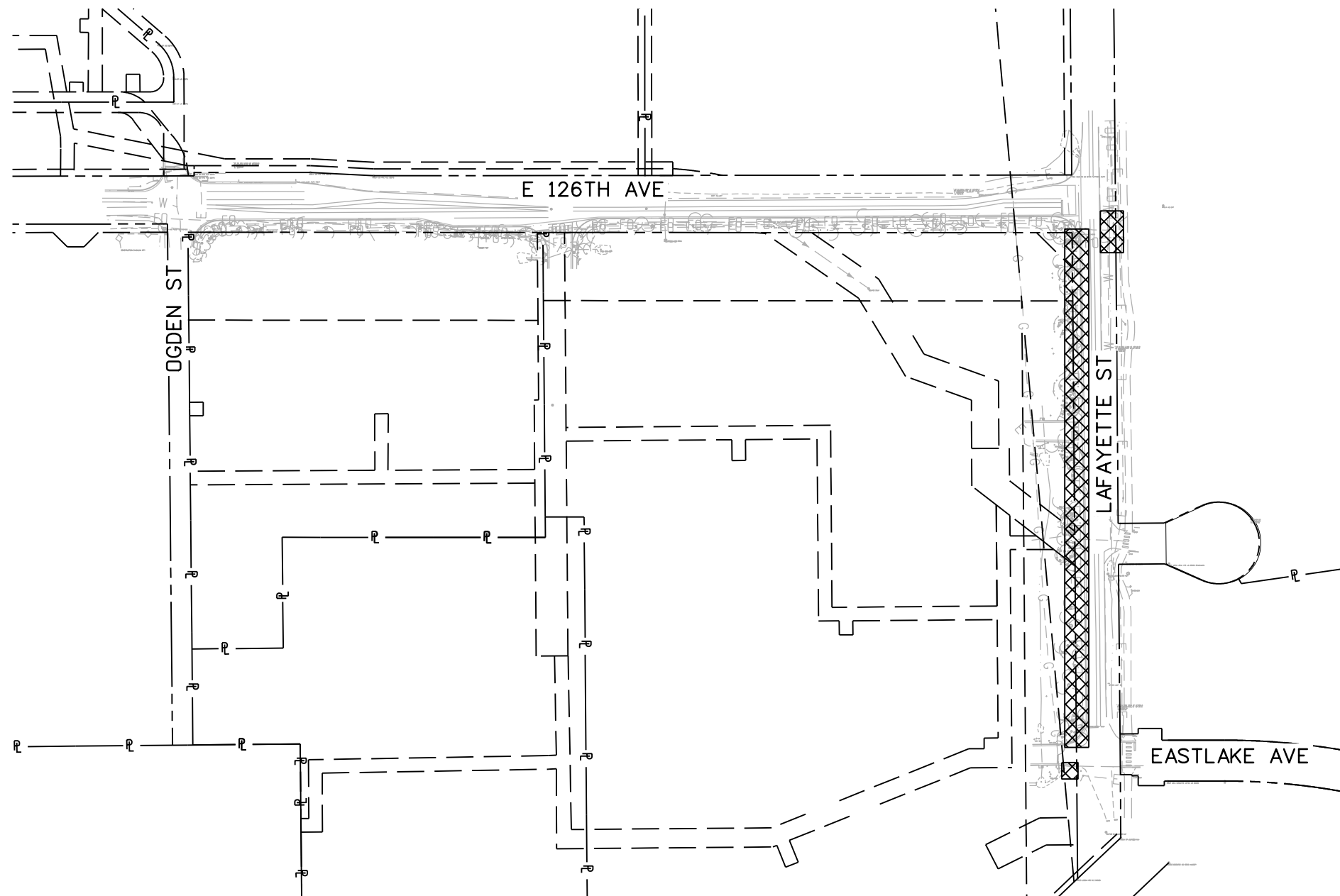
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SUGGESTED CONSTRUCTION PHASING PLAN PHASE 1			
Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	PHASING	Subset Sheets:	01 of 03

Project No./Code
SAR M286-046
22552
Sheet Number 59



Know what's below.  
Call before you dig.



**SUGGESTED CONSTRUCTION SEQUENCE NOTES:**

1. CONSTRUCT SIDEWALK AND CURB RAMPS ALONG LAFAYETTE ST USING TA-10 AND TA-29.

**LEGEND:**



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Print Date: 12/29/2022
File Name: 22552TRAF_PhasingPlan02.dgn
Horiz. Scale: 1:200
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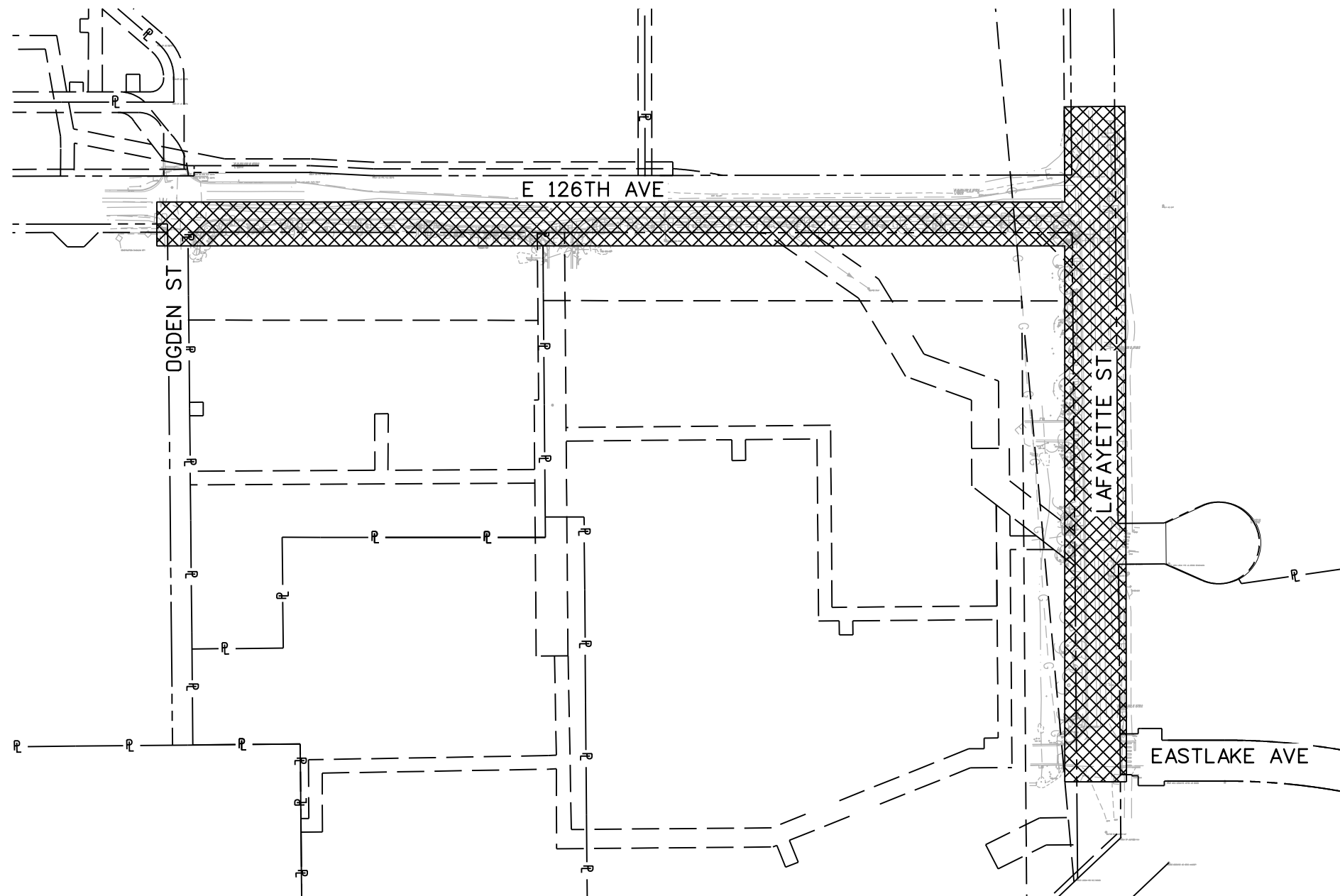
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Designer:	BTT	Structure Numbers	
Detailer:	BTT		
Sheet Subset:	PHASING	Subset Sheets:	02 of 03

Project No./Code
SAR M286-046
22552
Sheet Number 60



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**SUGGESTED CONSTRUCTION SEQUENCE NOTES:**

- 1. SIGN AND STRIPE USING TA-6 AND TA-10.

**LEGEND:**



WORK AREA



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SUGGESTED CONSTRUCTION PHASING PLAN PHASE 3			
Designer:	BTT	Structure Numbers	
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Project No./Code
SAR M286-046
22552
Sheet Number 61

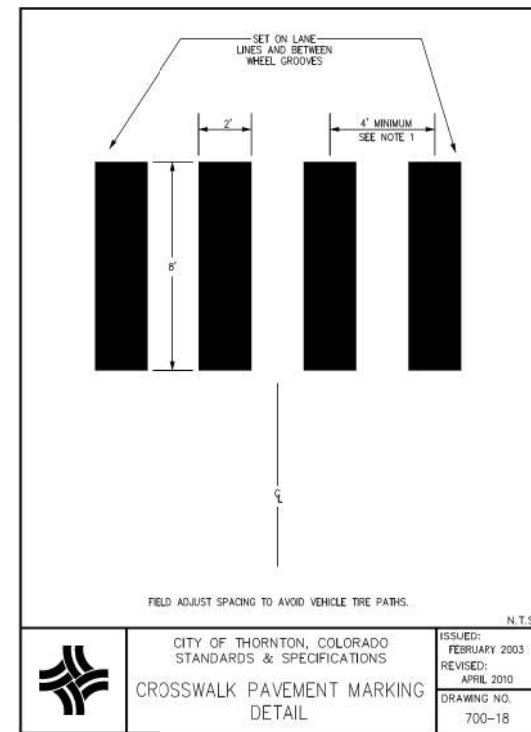
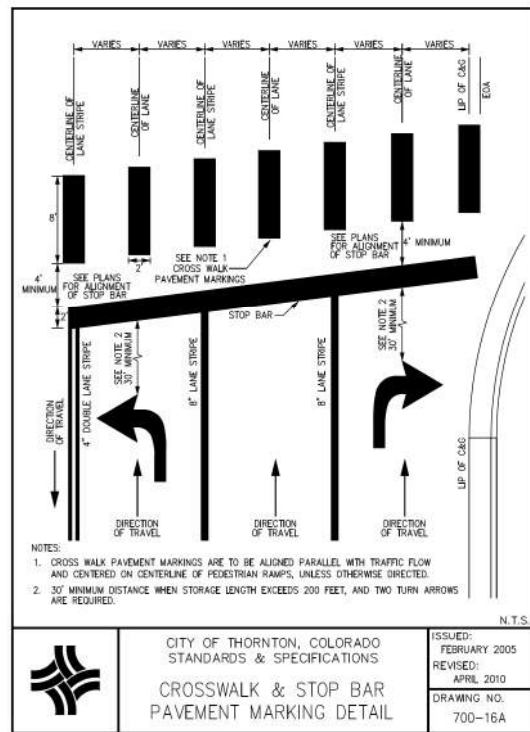
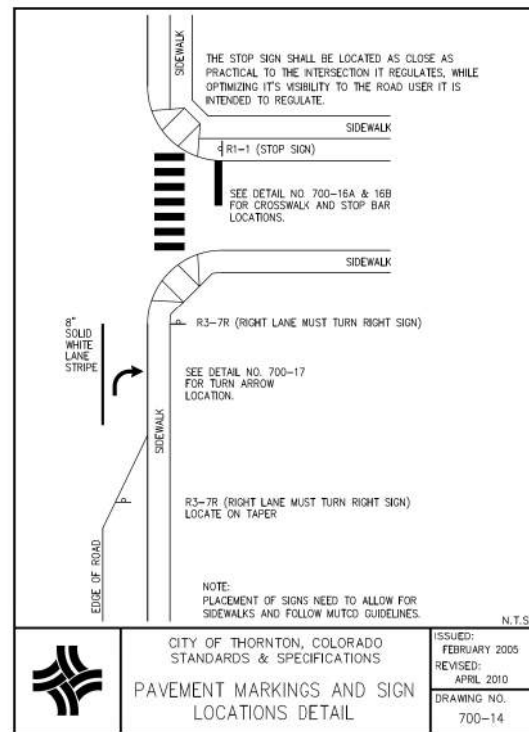
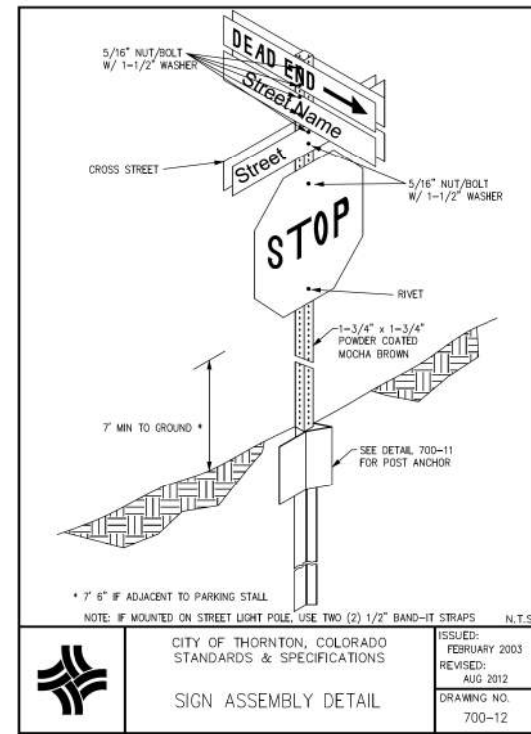
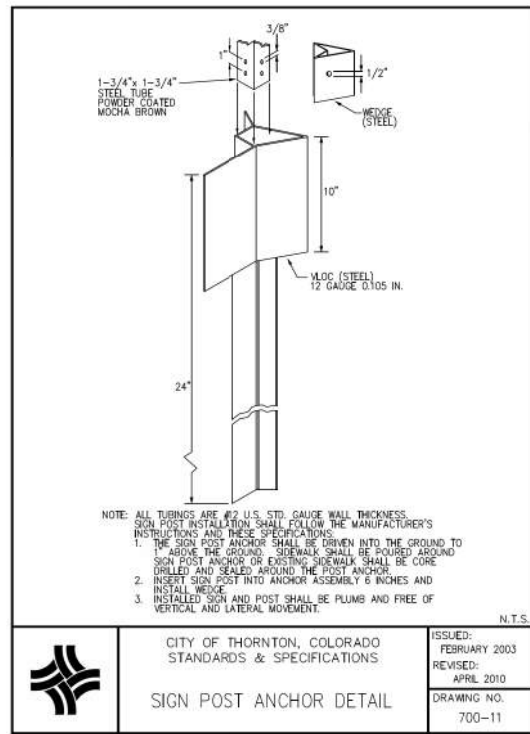
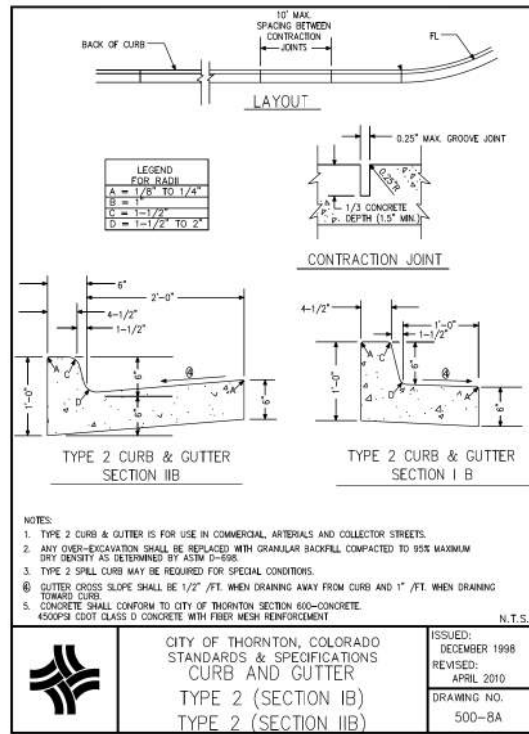
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SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES (INFORMATION ONLY)							
SIGNS							
SIGN CODE	LEGEND	DIMENSION (IN X IN)	QTY	PANEL SIZE			
				A	B	C	
G20-2	END ROAD WORK	36 X 18	2	2			
G20-10	XYZ/CONSTRUCTION/THANKS YOU/XXX-XXX-XXX	48 X 48	2		2		
G20-11	ROAD WORK/MMYY-MMYY/FOR INFORMATION/XXX-XXX-XXXX	48 X 48	2		2		
R9-9	SIDEWALK CLOSED / CROSS HERE	24 X 12	4	4			
W20-1	ROAD WORK AHEAD	36 X 36	2	2			
W20-4	ONE LANE ROAD AHEAD	36 X 36	2	2			
W20-7	FLAGGER	36 X 36	2	2			
				<b>12</b>	<b>4</b>	<b>0</b>	

SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
630-00000	FLAGGING	HOUR	350
630-00007	TRAFFIC CONTROL INSPECTION	DAY	18
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	42
630-80340	PEDESTRIAN BARRICADE (ADA)	LF	20
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	12
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	4
630-80360	DRUM CHANNELIZING DEVICE	EACH	30
630-80380	TRAFFIC CONE	EACH	50

NOTES/ASSUMPTIONS:  
 - MUTCD TA-6, TA-10, TA-29

Print Date: 12/29/2022 File Name: 22552TRAF_Tabulation_Traffic_Control.dgn Horiz. Scale: 1:200 Unit Information  5690 DTC Boulevard, Suite 330W Greenwood Village, CO 80111 Phone: 303-221-2330 Fax: 303-221-2331 www.stofusandassociates.com	<b>Sheet Revisions</b> <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date:	Comments	Init.													 <b>Region 1</b> 2829 W. Howard Place Denver, CO 80204 Phone: 303-757-9007	 9500 Civic Center Dr Thornton, CO 80229 Phone: 720-977-6226	<b>As Constructed</b> No Revisions:	<b>SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES</b>			Project No./Code SAR M286-046
	Date:	Comments	Init.																						
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Void:	Sheet Subset: TAB	Subset Sheets: 01 of 01	Sheet Number <b>62</b>																						



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Print Date: 6/27/2022
File Name: 22552DES_COTDetails.dgn
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**City of Thornton**

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CITY OF THORNTON DETAILS			
Designer:	BTT	Structure Numbers	
Detailer:	BTT	Subset Sheets:	01 of 01
Sheet Subset:	COT DET		

Project No./Code	SAR M286-046
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Sheet Number	63