



PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3	<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64	<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS) (REV. ON APR. 3, 2025)	<del>71-178</del>
<input checked="" type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7	<input type="checkbox"/> M-604-10	INLET, TYPE C	65	<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) (REVISED ON APRIL 3, 2025)	<del>179-186</del>
<input type="checkbox"/> M-203-1	APPROACH ROADS	8	<input type="checkbox"/> M-604-11	INLET, TYPE D	66	<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) (ISSUED ON SEP. 30, 2020)	
<input type="checkbox"/> M-203-2	DITCH TYPES	9	<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68	<input type="checkbox"/> S-613-3	PULL BOX DETAIL (2 SHEETS) (ISSUED ON APRIL 4, 2024)	
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12	<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13	69	<input checked="" type="checkbox"/> S-613-4	TRAFFIC SIGNAL ONE-LINE DIAGRAMS (6 SHEETS) (ISS. ON JUNE 15, 2023) (REVISED ON JAN. 9, 2026)	187-188
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14	<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	70-72	<input checked="" type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS) (REVISED ON MARCH 1, 2024)	189
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16	<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS) (REV. ON FEB. 3, 2023)	73-77	<input type="checkbox"/> S-614-2	CLASS I SIGNS (REVISED ON MARCH 1, 2024)	190
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18	<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	78	<input type="checkbox"/> S-614-3	CLASS II SIGNS (REVISED ON MARCH 1, 2024)	191-193
<input checked="" type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS) (REVISED ON MAY 16, 2024)	19-29	<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) (REVISED ON MARCH 5, 2020)	<del>79-97</del>	<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS) (REVISED ON MARCH 1, 2024)	194-195
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31	<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101	<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	196-197
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32	<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) (REVISED ON FEBRUARY 9, 2023)	<del>102-104</del>	<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	198-204
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34	<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) (REVISED ON FEBRUARY 17, 2023)	<del>105-115</del>	<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) (REVISED ON MARCH 1, 2024)	205-206
<input type="checkbox"/> M-400-1	SAFETYEDGE FOR PAVEMENT (NEW, ISSUED ON APRIL 25, 2025)		<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118	<del>S-614-9</del>	<del>PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) (SUPERSEDED ON JANUARY 22, 2020 BY S-614-45)</del>	
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) (REVISED ON JANUARY 31, 2022)	<del>35-39</del>	<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121	<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS) (REVISED ON SEPTEMBER 6, 2022)		<input type="checkbox"/> M-607-3	BARRIER FENCE	122	<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40	<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS) (REVISED ON JULY 13, 2020)	<del>123-127</del>	<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42	<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	128	<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS) (REVISED ON JANUARY 9, 2026)	211-214
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44	<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137	<input type="checkbox"/> S-614-15	CHAIN STATION SIGNAGE (ISSUED ON APRIL 30, 2024)	
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46	<input type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	138-147	<input type="checkbox"/> S-614-17	RADAR SPEED FEEDBACK SIGN (RSFS) (3 SHEETS) (NEW, ISSUED ON JAN. 9, 2026)	
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	47	<input checked="" type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151	<input type="checkbox"/> S-614-19	LATE/ZIPPER MERGE SIGNAGE (ISSUED ON SEPT. 22, 2025)	
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48	<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	152-153	<input checked="" type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS (REVISED ON MARCH 1, 2024)	215
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49	<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	154-155	<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) (REVISED ON SEPTEMBER 21, 2020)	216-217
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51	M-613-1	SUPERSEDED WITH S-613-1 AND S-613-2 IN JULY 2019		<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	52-55	<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158	<input type="checkbox"/> S-614-23	J-POST SIGN SUPPORT (3 SHEETS) (ISSUED ON MARCH 1, 2024)	
<input type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56	<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160	<input checked="" type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS) (REVISED ON JAN. 9, 2026)	219-223
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT (REVISED ON SEPTEMBER 10, 2020)	<del>57</del>	<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3	161	<input checked="" type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS) (REVISED ON JAN. 9, 2026)	224-227
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets) (REVISED ON MARCH 7, 2022)	<del>58</del>	<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5	162	<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59	<input type="checkbox"/> M-616-1	INVERTED SIPHON	163	<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS) (REVISED ON APRIL 4, 2024)	241-244
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60	<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1	164	<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS) (REVISED ON JANUARY 9, 2026)	245-252
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS	61	<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166	<input checked="" type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS) (REV. ON JAN. 9, 2026)	253-254

**COLORADO**  
**DEPARTMENT OF TRANSPORTATION**  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on January 16, 2026

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 OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

MY RESPONSIBILITY WITH RESPECT TO THIS PLAN SHEET IS LIMITED TO THE SELECTION OF THE STANDARD PLANS FOR THIS PROJECT AND A DETERMINATION THAT THE SELECTION IS APPROPRIATE FOR THE PROJECT.

Print Date: 2/12/26	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Sheet Revisions</b>			 TRAFFIC ENGINEERING DIVISION 12450 WASHINGTON ST. THORNTON CO. 80241	<b>As Constructed</b>		<b>104TH AVENUE AND WASHINGTON PLAZA STANDARD PLANS LIST</b>		<b>Project No.</b>	
File Name: 23-03753_03_STANDARD PLANS LIST BACK UP.DWG		Date:	Comments	Init.		No Revisions:	Revised:	Void:	Designer: C. DREESON Detailer: J. DAVISON Sheet Subset: ROADWAY	Structure Numbers Subset Sheets: 01 of 01	SHO M286-051
 1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.wsben.com								24697		Sheet Number 2	

File Date: 2/12/2026 11:13 AM Plotted By: jay Division: T:\CDOT\ENGINEERING\2023\23-03753-1\THORNTON TRAFFIC SIGNAL\104TH WASHINGTON PLAZA\03\_STANDARD PLANS LIST BACK UP.DWG

**GENERAL CONSTRUCTION NOTES:**

1. ALL WORK IN THE RIGHT OF WAY SHALL BE PER THE CONSTRUCTION STANDARDS AND CONCRETE SPECIFICATIONS FOR THE CITY OF THORNTON COLORADO AND THE CITY OF THORNTON STORM DRAINAGE CRITERIA MANUAL. PROJECT SHALL FOLLOW CITY OF THORNTON SPECIFICATIONS. CONTACT THE PUBLIC WORKS DEPARTMENT AT (720)977-6210 FOR ADDITIONAL INFORMATION.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL THE UTILITIES. CALL 811 PRIOR TO CONSTRUCTION.
3. ANY OCCUPANCY OR CONSTRUCTION ACTIVITY ON THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE PUBLIC WORKS DEPARTMENT. ANY WORK CONDUCTED WITHOUT A PERMIT IS SUBJECT TO A DOUBLE FEE.
4. REQUESTS FOR INSPECTION SHALL BE MADE PRIOR TO 12:00PM THE DAY PRIOR TO THE INSPECTION (NO EXCEPTIONS).
5. WORK HOURS IN THE PUBLIC RIGHT OF WAY ARE MONDAY-FRIDAY 7:00 AM TO 7:00 PM. WORK HOURS FOR ARTERIALS AND COLLECTOR STREETS WILL BE 9:00 AM TO 3:30 PM. PUBLIC WORKS MUST BE NOTIFIED ONE WEEK PRIOR TO CONSTRUCTION FOR ANY WORK SCHEDULED ON A SATURDAY.
6. NO WORK IS ALLOWED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM PER THORNTON MUNICIPAL CODE SECTION 6-2-5(E) OR ON SUNDAYS OR ANY RECOGNIZED CITY HOLIDAY.
7. ALL DAMAGE TO EXISTING PUBLIC IMPROVEMENTS CAUSED BY THE CONTRACTORS OPERATIONS, AS DETERMINED BY THE CITY OF THORNTON INSPECTOR, WILL BE REPAIRED BY THE CONTRACTOR TO CITY STANDARD.
8. THE USE OF THE CITY OF THORNTON'S RIGHTS-OF-WAY FOR THE PURPOSE OF STAGING IS STRICTLY FORBIDDEN. STAGING IS DEFINED AS THE STORAGE OF (BUT NOT LIMITED TO) MATERIAL, EQUIPMENT, OR VEHICLES OUTSIDE OF THE NORMAL WORK ZONE LIMITS HOURS ALLOWED FOR IN THE PERMIT.
9. CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS OF ANY ROAD OR ALLEY CLOSURES OR PARKING RESTRICTIONS THAT IMPACTS THE ADJACENT PROPERTIES BY, NOTIFICATION SHALL INCLUDE A DESCRIPTION OF THE WORK, THE TIMES AND DURATION THAT THE CLOSURE OR RESTRICTIONS WILL BE IN EFFECT AND THE COMPANY NAME AND EMERGENCY CONTACT NUMBER. CONTRACTOR SHALL SUBMIT THEIR NOTIFICATION FLYER WITH THE PERMIT APPLICATION FOR APPROVAL.
10. NO STEEL, OR METAL TRACKED VEHICLES SHALL BE PERMITTED ON STREETS UNLESS APPROVED BY THE CITY. RUBBER TRACKED VEHICLES ARE ALLOWED. ANY DAMAGE CAUSED BY CONTRACTOR OPERATIONS TO EXISTING FACILITIES WILL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE. THE CITY MAY REQUIRE THAT ANY SCARRED AREA TO BE RESTORED AT THE CONTRACTOR'S EXPENSE.
11. ALL WORK SHALL BE IN COMPLIANCE WITH CDOT 2025 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE LOCAL AGENCY PLANS AND SPECIFICATIONS.

12. ALL MANHOLES, VALVE BOXES AND SPLICE BOXES SHALL BE PROTECTED FROM THE WORK ASSOCIATED WITH THIS CONTRACT.
13. ERECT AND MAINTAIN ADEQUATE EROSION PROTECTION FOR THE DURATION OF THE PROJECT. ALL EROSION CONTROL BMP'S SHALL BE PER THE LATEST ISSUE OF VOLUME 3 OF THE URBAN STORM DRAINAGE CRITERIA MANUAL AS APPROVED BY THE CITY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL PAVED AREAS OF MUD AND DEBRIS DUE TO CONSTRUCTION ACTIVITIES ON A DAILY BASIS OR AS DIRECTED BY THE CITY OF THORNTON.
15. EROSION CONTROL BMP'S SHALL REMAIN IN PLACE AND IN WORKING CONDITION UNTIL FINAL STABILIZATION OF THE SITE IS ACHIEVED.
16. FAILURE TO COMPLY WITH ANY CITY CODES, RULES AND REGULATIONS MAY RESULT IN THE STOPPAGE OF WORK. AND/OR A SUMMONS ISSUED BY CODE ENFORCEMENT.

**GENERAL TRAFFIC AND TRANSPORTATION NOTES:**

1. ALL PAVEMENT MARKINGS, INCLUDING TEMPORARY MARKINGS, SHALL BE RETRO-REFLECTIVE PER THORNTON STANDARDS.
2. CONTRACTOR SHALL SUBMIT THEIR METHOD OF HANDLING TRAFFIC (MHT) TO THE CITY PROJECT ENGINEER FOR APPROVAL PRIOR TO DAILY WORK.
3. TCS SHALL BE PRESENT ON SITE (DURING ACTIVE CONSTRUCTION) AT ALL TIMES DURING THE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL INFORM PUBLIC WORKS OF EXACT DATES OF LANE OR ALLEY CLOSURES 24 HOURS PRIOR TO CONSTRUCTION AS SHOWN ON THE MHTS.
5. LANE CLOSURES MAY ONLY BE MADE BETWEEN 9AM AND 3PM ON ARTERIAL AND MAJOR COLLECTORS. ALL LANES MUST BE RE-OPENED BY 3PM.
6. LOCAL BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES
7. ALL TRAFFIC CONTROL PLANS SHALL BE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
9. ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN HEADS SHALL BE LED TYPE.
10. THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, WIRING AND MISCELLANEOUS HARDWARE REQUIRED FOR INSTALLATION OF THIS TRAFFIC SIGNAL UNLESS OTHERWISE NOTED. ADDITIONAL ITEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM OR WORK FOR A COMPLETE INSTALLATION.
11. THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER AT THE CONSTRUCTION SITE TO VERIFY CAISSON LOCATIONS AND MAST ARM LENGTHS PRIOR TO PURCHASE AND INSTALLATION.
12. PEDESTRIAN PUSH BUTTONS SHALL BE ACCESSIBLE PEDESTRIAN SIGNAL (APS) TYPE.
13. ALL MATERIALS FOR THE CONSTRUCTION OF THE INTERSECTION TRAFFIC SIGNAL SHALL BE PER THE CITY OF NORTHGLENN STANDARDS AND SPECIFICATIONS. ALL OTHER WORK ON THE PROJECT SHALL BE PER THE CITY OF THORNTON STANDARDS AND SPECIFICATIONS.

**GENERAL ENVIRONMENTAL NOTES:**


1. NOXIOUS WEEDS HAVE POTENTIAL TO OCCUR WITHIN THE PROJECT AREA. THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR INTRODUCING AND SPREADING NOXIOUS WEEDS IN THE PROJECT AREA:
  - a. VEHICLES SHALL BE INSPECTED BEFORE THEY ARE USED FOR CONSTRUCTION TO ENSURE THAT THEY ARE FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS. HEAVY CONSTRUCTION EQUIPMENT SHALL BE CLEANED PRIOR TO USE ON THE PROJECT SITE.
  - b. MATERIAL FOR EROSION BALES, MULCHING, OR COMPOST SHALL CONSIST OF CERTIFIED WEED-FREE MATERIAL. CERTIFIED WEED-FREE EROSION BALES ARE IDENTIFIED BY BLUE AND ORANGE TWINE BINDING THE BALES. MATERIALS FOR MULCHING SHALL CONSIST OF CERTIFIED WEED-FREE FIELD OR MARSH HAY OR STRAW OF OATS, BARLEY, WHEAT, RYE OR TRITICALE CERTIFIED UNDER THE CDA WEED-FREE FORAGE CERTIFICATION PROGRAM.
  - c. FERTILIZER SHALL NOT BE USED IN SEEDED AREAS BECAUSE IT CAN ENHANCE THE GROWTH OF NOXIOUS WEEDS AT THE EXPENSE OF DESIRED VEGETATION.
2. THERE IS POTENTIAL FOR MIGRATORY BIRDS, AND THEIR NESTS, TO BE PRESENT IN THE PROJECT AREA. PROTOCOLS REGARDING PROTECTION OF MIGRATORY BIRDS OUTLINED IN CDOT REVISED SECTION 240 SPECIFICATION - PROTECTION OF MIGRATORY BIRDS, BIOLOGICAL WORK PERFORMED BY THE CONTRACTOR'S BIOLOGIST, SHALL BE FOLLOWED TO AVOID IMPACTS TO PROTECTED BIRDS, THEIR NESTS, EGGS, AND YOUNG.
3. ALTHOUGH ENCOUNTERING IMPACTED SOIL OR GROUNDWATER IS NOT EXPECTED, WORKERS SHALL BE ALERT DURING EXCAVATION FOR ANY VISUAL OR OLFACTORY SIGNS OF IMPACTS. IF IMPACTED SOIL AND/OR GROUNDWATER IS ENCOUNTERED, WORK WILL STOP IMMEDIATELY, AND THE PROCEDURES OUTLINED IN THE CDOT SPECIFICATION 250 AND SUBSECTION 107.25.(b) SHALL BE FOLLOWED.
4. IN THE UNLIKELY EVENT THAT SUSPECTED ASBESTOS CONTAINING MATERIAL (ACM) IS ENCOUNTERED, INCLUDING WITH BURIED UTILITIES, WORKERS MUST FOLLOW CDOT SPECIFICATION 250.07 - ASBESTOS-CONTAINING MATERIAL MANAGEMENT AND CDOT REGULATED ASBESTOS-CONTAMINATED SOIL MANAGEMENT STANDARD OPERATING PROCEDURE. ADDITIONALLY, DEPENDING ON THE TYPE OF ACM, THIS MATERIAL MUST ALSO BE ABATED IN ACCORDANCE WITH EITHER SECTION 5.5 OF THE SOLID WASTE REGULATIONS, OR REGULATION NO. 8 OF THE AIR QUALITY CONTROL COMMISSION REGULATIONS. WORKERS ON THIS PROJECT MUST FOLLOW CDOT SPECIFICATION 250 - ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT.
5. IF ANY SUBSURFACE ARCHAEOLOGICAL RESOURCES ARE FOUND, WORK WILL BE IMMEDIATELY HALTED IN THE VICINITY OF THE FIND. IF BONES OF POTENTIAL HUMAN ORIGIN ARE DISCOVERED DURING CONSTRUCTION, GROUND-DISTURBING WORK MUST BE STOPPED NEAR THE DISCOVERY, AND THE COUNTY SHERIFF, AND THE COLORADO STATE ARCHAEOLOGIST (303-866-2736) WILL BE PROMPTLY NOTIFIED. WORK CANNOT RESUME IN THE VICINITY OF THE FIND UNTIL CLEARANCE IS GRANTED. THE CONTRACTOR SHALL COMPLY WITH CDOT STANDARD SPECIFICATION 107.23 ARCHAEOLOGICAL AND PALEONTOLOGICAL DISCOVERIES.
6. IF ANY SUBSURFACE BONES OR OTHER POTENTIALLY SIGNIFICANT FOSSILS ARE FOUND, WORK WILL BE IMMEDIATELY HALTED IN THE VICINITY OF THE FIND. THE CONTRACTOR SHALL COMPLY WITH CDOT STANDARD SPECIFICATION 107.23, ARCHAEOLOGICAL AND PALEONTOLOGICAL DISCOVERIES.
7. THE CONTRACTOR MUST ASCERTAIN IF AN AIR POLLUTION EMISSION NOTICE (APEN) IS REQUIRED TO BE SUBMITTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT'S, (CDPHE) AIR POLLUTION CONTROL DIVISION, (APCD) FOR THIS OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE APEN AND OBTAINING SAID PERMIT, IF REQUIRED. THE CONTRACTOR SHALL CONTROL FUGITIVE DUST THROUGH IMPLEMENTATION OF SECTIONS 107.24, 209, AND 250 OF CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND APPLICABLE CDPHE REQUIREMENTS.
8. THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION:
  - MAINTAIN ENGINES AND EXHAUST SYSTEMS ON CONSTRUCTION EQUIPMENT AND VEHICLES IN GOOD WORKING ORDER. PROHIBIT TAMPERING WITH EQUIPMENT TO INCREASE HORSEPOWER OR DISABLING EMISSION CONTROL DEVICES. EQUIPMENT IS SUBJECT TO INSPECTION BY THE PROJECT MANAGER TO ENSURE MAINTENANCE IS CONDUCTED REGULARLY.
  - PROHIBIT UNNECESSARY IDLING OF CONSTRUCTION EQUIPMENT AND VEHICLES.
  - LOCATE STAGING AREAS AND STATIONARY CONSTRUCTION EQUIPMENT / DIESEL ENGINES AS FAR AS POSSIBLE FROM RESIDENCES AND OTHER SENSITIVE RECEPTORS.
  - COVER, WET, COMPACT, OR USE CHEMICAL STABILIZATION TO CONTROL DUST FROM DISTURBED AREAS AND EXCAVATED MATERIALS DURING CONSTRUCTION. MINIMIZE DISTURBED AREAS, PARTICULARLY DURING DRY WEATHER CONDITIONS, AND USE WIND BARRIERS AS APPROPRIATE.
  - CONTROL SOIL / SEDIMENT AT POINTS OF INGRESS / EGRESS AND USE VACUUM STREET SWEEPERS TO REMOVE SOIL TRACKED ONTO ADJACENT ROADWAYS



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 C:\CDD\ENGINEERING\GENERAL\2025\0375 - THORNTON TRAFFIC SIGNAL - 14711X WASHINGTON PLAZA AND WASHINGTON PLAZA AND WASHINGTON PLAZA - CDOT OUT SHEETS\ROADWAY\2025\0375\_02\_GENERAL NOTES.DWG

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Sheet Revisions		
Date:	Comments	Init.



TRAFFIC ENGINEERING DIVISION  
12450 WASHINGTON ST.  
THORNTON CO. 80241

As Constructed	No Revisions:
Revised:	
Void:	

104TH AVENUE AND WASHINGTON PLAZA GENERAL NOTES			
Designer:	C. DREESON	Structure	
Detailer:	J. DAVISON	Numbers	
Sheet Subset:	ROADWAY	Subset Sheets:	01 of 01

Project No.	SHO M286-051
	24697
Sheet Number	3

**SUMMARY OF APPROXIMATE QUANTITIES**

ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY		TRAFFIC		SWMP		PROJECT TOTAL	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
202-00010	TREE REMOVAL (GREATER THAN 12" TO 36")	EA	1						1	
202-00195	REMOVAL OF MEDIAN COVER	SY	99						99	
202-00203	REMOVAL OF CURB AND GUTTER	LF	154						154	
202-00220	REMOVAL OF ASPHALT MAT	SY	263						263	
202-00250	REMOVAL OF PAVEMENT MARKING	SF	1,834						1,834	
202-00810	REMOVAL OF GROUND SIGN	EA			1				1	
208-00012	EROSION LOG TYPE 1 (9 INCH)	LF					415		415	
208-00035	AGGREGATE BAG	LF					102		102	
208-00051	STORM DRAIN INLET PROTECTION (TYPE I)	EA					4		4	
208-00207	EROSION CONTROL MANAGEMENT (ECM)	DAY					15		15	
214-00508	EVERGREEN TREE (8 FOOT) (BULB AND BURLAP)	EA	1						1	
304-06007	AGGREGATE BASE COURSE (CLASS 6)	CY	40						40	
403-33841	HOT MIX ASPHALT (GRADING S)(100) (PG 64-22)	TON	30						30	
403-34871	HOT MIX ASPHALT (GRADING SX)(100)(PG 76-28)	TON	19						19	
503-00018	DRILLED SHAFT (18 INCH)	LF			5				5	
503-00036	DRILLED SHAFT (36 INCH)	LF			38				38	
503-00048	DRILLED SHAFT (48 INCH)	LF			21				21	
607-11525	FENCE (PLASTIC)	LF					40		40	
607-11580	FENCE (TEMPORARY)	LF					205		205	
609-21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF	275						275	
610-00010	MEDIAN COVER MATERIAL (DECORATIVE)	SF	1,845						1,845	
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF			267				267	
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF			578				578	
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF			49				49	
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF			34				34	
613-07001	TYPE ONE PULL BOX	EA			4				4	
613-07002	TYPE TWO PULL BOX	EA			1				1	
613-10000	WIRING	LS			1				1	
613-13000	LUMINAIRE	EA			3				3	
613-80130	SERVICE METER CABINET	EA			1				1	
614-00011	SIGN PANEL (CLASS 1)	SF			57				57	
614-00214	STEEL SIGN POSTS (1.75 X 1.75 INCH TUBING)	LF			33				33	
614-10160	SIGNAL HEAD BACKPLATES	EA			9				9	



Plot Date: 11/11/25 11:44 AM Plotted By: Bill Reseck  
 C:\CO\DENVER\GENERAL\2023\0375 - THORNTON TRAFFIC SIGNAL - 104TH AVENUE AND WASHINGTON PLAZA - CAD\CUT SHEETS\ROADWAY\23-0375\_05-06\_SAQ.DWG

Print Date:	11/11/25
File Name:	23-03753_05-06_SAQ.DWG
	1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.wsben.com

Sheet Revisions		
Date:	Comments	Init.

TRAFFIC ENGINEERING DIVISION  
12450 WASHINGTON ST.  
THORNTON CO. 80241

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

<b>104TH AVENUE AND WASHINGTON PLAZA SUMMARY OF APPROXIMATE QUANTITIES</b>			
Designer:	WJKjr	Structure	
Detailer:	CRB	Numbers	
Sheet Subset:	SAQ	Subset Sheets:	01 of 02

<b>Project No.</b>
SHO M286-051
24697
Sheet Number 4

**SUMMARY OF APPROXIMATE QUANTITIES**

ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY		TRAFFIC		SWMP		PROJECT TOTAL	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
614-70150	PEDESTRIAN SIGNAL FACE (16) COUNTDOWN	EA			2				2	
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA			12				12	
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EA			2				2	
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EA			1				1	
614-72860	PEDESTRIAN PUSH BUTTON	EA			2				2	
614-72866	FIRE PREEMPTION UNIT AND TIMER	EA			2				2	
614-72886	INTERSECTION DETECTION SYSTEM (CAMERA)	EA			3				3	
614-81135	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 35 FOOT MAST ARM)	EA			1				1	
614-81155	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 55 FOOT MAST ARM)	EA			1				1	
614-81165	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 65 FOOT MAST ARM)	EA			1				1	
614-84000	TRAFFIC SIGNAL PEDESTAL POLE STEEL	EA			1				1	
614-86105	TELEMETRY (FIELD)	EA			1				1	
614-86238	TRAFFIC SIGNAL CONTROLLER (SOLID STATE)(FULLY-ACTUATED)(8 PHASE)	EA			1				1	
620-00020	SANITARY FACILITY	EA					1		1	
626-00000	MOBILIZATION	LS			1				1	
627-00005	EPOXY PAVEMENT MARKING	GAL			8				8	
627-30405	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD - SYMBOL)	SF			135				135	
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK - STOPLINE)	SF			682				682	
630-00000	FLAGGING	HR			480				480	
630-00007	TRAFFIC CONTROL INSPECTION	DAY			60				60	
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY			30				30	
630-80341	CONSTRUCTION TRAFFIC SIGN PANEL (SIZE A)	EA			3				3	
630-80342	CONSTRUCTION TRAFFIC SIGN PANEL (SIZE B)	EA			24				24	
630-80355	PORTABLE MESSAGE SIGN PANEL	EA			2				2	
630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EA			2				2	
630-80360	DRUM CHANNELIZING DEVICE (WITH LIGHTS)(FLASHING)	EA			15				15	
630-80380	TRAFFIC CONE	EA			90				90	
700-70010	MINOR CONTRACT REVISIONS	F/A			1				1	
700-70023	ON-THE-JOB TRAINEE	F/A			1				1	
700-70082	FURNISH AND INSTALL ELECTRICAL SERVICE	F/A			1				1	
700-70310	LANDSCAPING	F/A			1				1	
700-70380	EROSION CONTROL	F/A			1				1	
700-70589	ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT	F/A			1				1	



Plot Date: 11/11/2025 11:44 AM Plotted By: Bill Resneck  
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Sheet Revisions		
Date:	Comments	Init.

 CITY OF <b>THORNTON</b>	TRAFFIC ENGINEERING DIVISION 12450 WASHINGTON ST. THORNTON CO. 80241
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<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>104TH AVENUE AND WASHINGTON PLAZA SUMMARY OF APPROXIMATE QUANTITIES</b>			
Designer:	WJKjr	Structure	
Detailer:	CRB	Numbers	
Sheet Subset:	SAQ	Subset Sheets:	02 of 02

<b>Project No.</b>
SHO M286-051
24697
Sheet Number 5



# SUBSURFACE UTILITY ENGINEERING INVESTIGATION

UTILITY INVESTIGATION - 104TH & WASHINGTON  
CITY OF THORNTON, ADAMS COUNTY

PREPARED FOR:  
**EST INC.**



## UTILITY INVESTIGATION PLANS

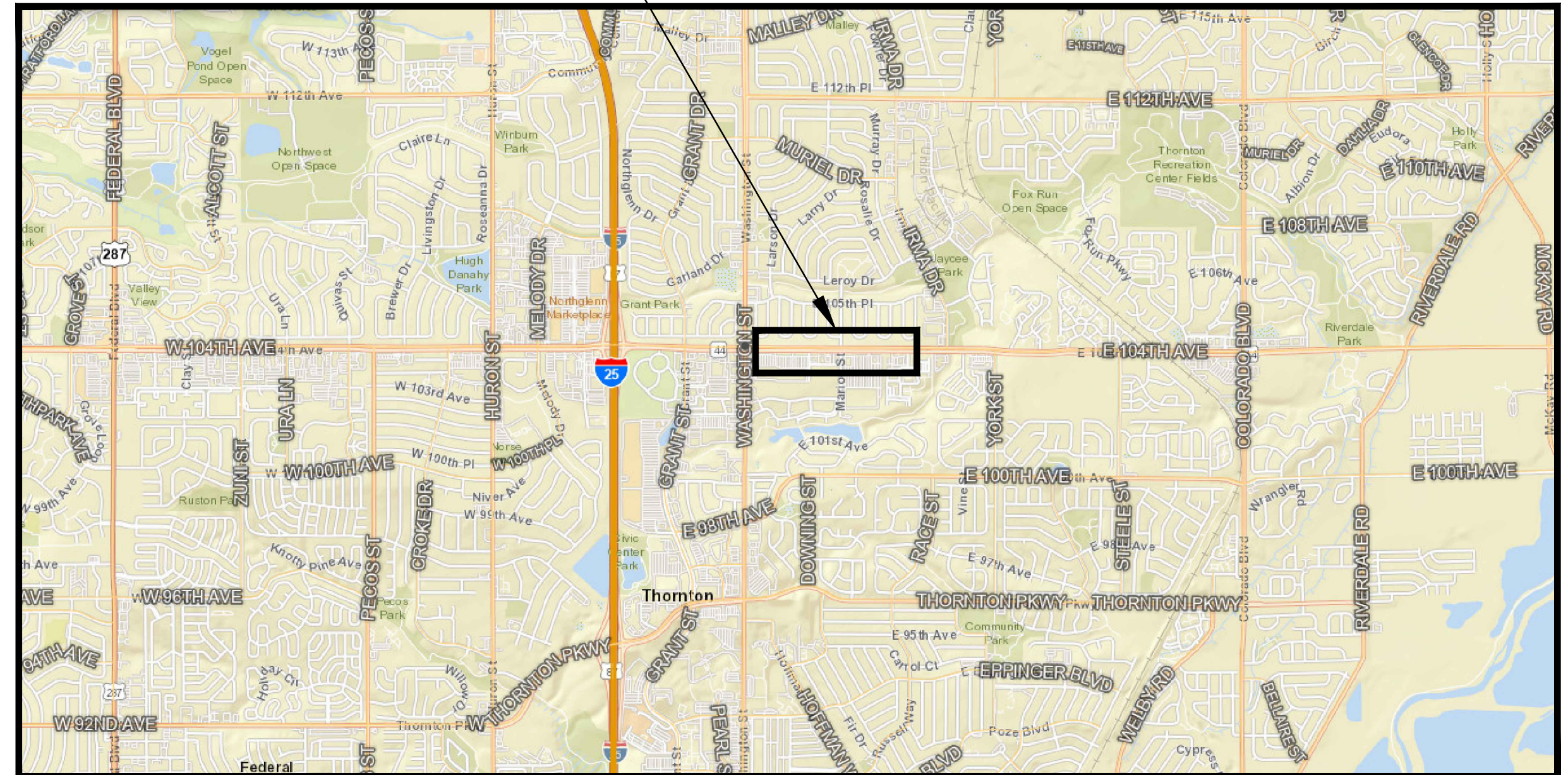
104TH & WASHINGTON  
EST INC.  
THORNTON, COLORADO

NO.	DATE	DESCRIPTION

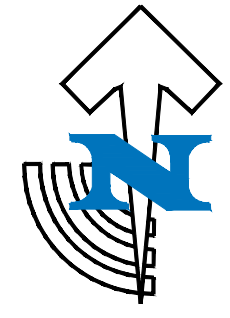


DATE	02/23/2024
DRAWN	DLJ
SURVEYED	EPS GROUP
CHECKED	CD
PROJECT #	CO02400200
SHEET TITLE	COVER SHEET
SHEET NUMBER	U-001

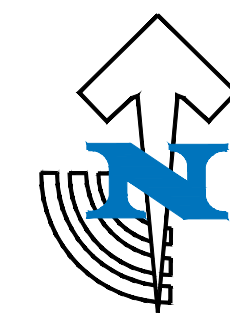
PROJECT LOCATION



KEY MAP  
N.T.S.



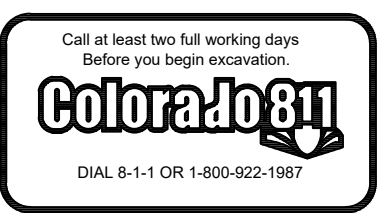
VICINITY MAP  
N.T.S.



**SURVEY CONTROL**  
SURVEY CONTROL POINTS USED FALL OUTSIDE OF PROJECT LIMITS AND ARE NOT SHOWN ON KEY MAP. FOR SURVEY CONTROL LOCATIONS SEE SURVEY CONTROL TABLE.

SHEET INDEX	
SHEET NO.	DESCRIPTION
U-001	COVER SHEET, KEY MAP & VICINITY MAP
U-002	GENERAL NOTES, SURVEY CONTROL, LEGEND
U-003 - U-004	UTILITY INVESTIGATION PLAN SHEETS

UTILITY INVESTIGATION STATEMENT OF ASCE 38-22 COMPLIANCE  
THE UTILITIES DEPICTED HAVE BEEN INVESTIGATED IN GENERAL ACCORDANCE WITH THE ASCE 38-22, "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES," STANDARD AND SHOWN AT THEIR ACHIEVED QUALITY LEVELS. ALL OTHER INFORMATION HAS BEEN PROVIDED BY OTHERS AND INCLUDED AS REFERENCE ONLY.



**GENERAL NOTES**

- SUBSURFACE UTILITY ENGINEERING IS A PROFESSIONAL PRACTICE DEFINED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE.) T2 UES INC. CONDUCTS UTILITY INVESTIGATIONS IN ACCORDANCE WITH ASCE 38-02. STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. IDENTIFYING AND DOCUMENTING UNDERGROUND UTILITIES IS A RESULT OF GATHERING EVIDENCE FROM VARIOUS SOURCES AND EXACT UTILITY LOCATIONS ARE NOT CONFIRMED UNLESS VISUALLY EXPOSED AND SURVEYED, AND THEN ONLY AT THOSE SPECIFIC EXPOSED LOCATIONS. ADDITIONALLY, T2 UES INC. CANNOT GUARANTEE THAT ALL UTILITIES HAVE BEEN DISCOVERED AND DEPICTED.
- IN ACCORDANCE WITH 2018 COLORADO REVISED STATUTES TITLE 9 ARTICLE 1.5 T2 UES INC. SUBMITTED A SUBSURFACE UTILITY ENGINEERING NOTIFICATION TO THE COLORADO 811 ASSOCIATION ON 11/20/2023.
- T2 UES INC. INVESTIGATED ALL UTILITIES, INCLUDED WITHIN THE SCOPE OF WORK, INSIDE THE PROJECT LIMITS. THOSE UTILITIES ARE DEPICTED AS INDICATED IN THE LEGEND. OTHERS PROVIDED ALL OTHER INFORMATION, NOTABLY THE BACKGROUND INFORMATION, AND T2 UES INC. DISCLAIMS RESPONSIBILITY FOR ITS ACCURACY.
- INVESTIGATIONS OF DEPICTED UTILITIES WERE COMPLETED ON 12/20/2023. T2 UES INC. DISCLAIMS RESPONSIBILITY FOR NEW INSTALLATIONS OR ALTERATIONS TO EXISTING UTILITIES AFTER THIS DATE. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS INVESTIGATION PRIOR TO FINAL DESIGN AND/OR CONSTRUCTION.
- UTILITY SIZE AND MATERIAL ARE SHOWN IF AVAILABLE FROM RECORD INFORMATION. ADDITIONALLY, FIELD OBSERVATIONS WERE CONDUCTED, WHERE POSSIBLE, TO CORROBORATE AND SUPPLEMENT RECORD INFORMATION BUT T2 UES INC. DOES NOT GUARANTEE ITS ACCURACY OR COMPLETENESS. PIPE DIAMETERS ARE NOMINAL AND NOT EXACT, UNLESS OTHERWISE NOTED.
- PROFESSIONAL ASSISTANCE BY T2 UES INC. IS RECOMMENDED IN SELECTING LOCATIONS FOR QUALITY LEVEL A DATA FOR SPECIFIC DESIGN DECISIONS.
- THIS INVESTIGATION DEPICTS UTILITIES FOR PLANNING AND DESIGN PURPOSES BUT NOT FOR CONSTRUCTION. FOR DAMAGE PREVENTION DURING CONSTRUCTION, COMPLY WITH APPLICABLE ONE-CALL LAWS (CALL 811).
- THESE PLANS HAVE BEEN PREPARED FOR THE USE OF T2 UES INC.'S CLIENT AND MAY NOT BE USED, REPRODUCED OR RELIED UPON BY THIRD PARTIES EXCEPT AS AGREED BY T2 UES INC. AND ITS CLIENT OR AS REQUIRED BY LAW.
- AS DEFINED BY THE PROJECT SCOPE, T2 UES ATTEMPTED TO FIND UNDOCUMENTED UTILITIES. DEPICTED AND LABELED AS UNKNOWN UTILITIES ON THE PLAN SET, AS THEY HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION OR TYPE. HOWEVER, UNDOCUMENTED UTILITIES MAY BE PRESENT IN THE PROJECT AREA THAT WERE NOT DISCOVERABLE BY THE SCOPED EFFORT AND THEREFORE NOT DEPICTED.
- AS PER PROJECT SCOPE, THE POSITIONING AND SIZE OF SUBSURFACE UTILITY VAULTS WERE NOT INCLUDED AS PART OF THIS INVESTIGATION. IF FOUND TO BE IN CONFLICT WITH PROPOSED PLANS, THE POSITIONING AND SIZE OF VAULTS SHOULD BE CONFIRMED.
- UNDER THE PROJECT SCOPE, THE FOLLOWING UTILITIES WERE EXPRESSLY EXCLUDED FROM THIS INVESTIGATION: LANDSCAPE IRRIGATION SYSTEMS, TRAFFIC LOOP DETECTION DEVICE, SEWER LATERALS AND UNDERGROUND STORAGE TANKS / ASSOCIATED PIPING OR SEPTIC SYSTEMS.
- UTILITIES ARE GENERALLY DEPICTED BY A SINGLE LINE. HOWEVER, LARGER UTILITIES (12" AND GREATER) MAY BE DEPICTED AT THEIR REPORTED WIDTH CENTERED OVER THE ACTUAL QUALITY LEVEL RESULTS. THEREFORE, ANY UTILITY EDGES SHOWN ARE FOR SCHEMATIC DEPICTION ONLY AND SHOULD NOT BE CONSIDERED RELIABLE FOR DESIGN. IF EXACT EDGES OF UTILITY ARE NEEDED, QLA DATA IS REQUIRED.
- NON-CONDUCTIVE UTILITY PIPES, WHERE TRACER WIRE IS AVAILABLE, ARE DESIGNATED AND LABELED QLB. HOWEVER, DUE TO THE UNKNOWN WIRE INSTALLATION MEANS AND METHODS DURING CONSTRUCTION, THE ALIGNMENT LOCATION OF THE TRACER WIRE MAY BE DIFFERENT FROM THE ALIGNMENT LOCATION OF THE ACTUAL UTILITY PIPE. TYPE AND QUANTITY OF NON-CONDUCTIVE PIPE MAY ALSO NOT BE ACCURATELY REFLECTED DUE TO THE NATURE OF GEOPHYSICS.
- OVERHEAD UTILITIES ARE NOT ASSIGNED A QUALITY LEVEL, UNLESS OTHERWISE NOTED.
- SUE INVESTIGATION MAY HAVE OCCURRED WHILE SNOW COVER IS PRESENT. BEST EFFORTS WERE MADE TO ACCURATELY DEPICT FACILITIES AS THEY EXIST AT TIME OF INVESTIGATION, GIVEN FIELD CONDITIONS ENCOUNTERED. HOWEVER, FEATURES SUCH AS CULVERTS MAYBE COVERED BY SNOW AND INADVERTENTLY MISSED, ESPECIALLY IN CASES WHERE RECORDS ARE NOT AVAILABLE.
- T2 UES, INC. PERFORMED QLA TEST HOLES FROM 08/20/2024 TO 08/21/2024. THE INFORMATION GATHERED FROM THE QLA TEST HOLES HAS BEEN INCORPORATED INTO THESE PLANS.

**LEGEND**

**UTILITY LINETYPES**

	TS	TRAFFIC SIGNAL LINE (QUALITY LEVEL IS AS NOTED)
	SL	STREET LIGHT LINE (QUALITY LEVEL IS AS NOTED)
	E	ELECTRIC LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	OE	OVERHEAD ELECTRIC LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	CTV	CABLE TV LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	T	TELEPHONE LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	FO	FIBER OPTIC LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	G	NATURAL GAS LINE (QUALITY LEVEL IS AS NOTED)
	SD	STORM DRAINAGE LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	SS	SANITARY SEWER LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	W	WATER LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	IRR	IRRIGATION LINE (OWNER AS NOTED) (QUALITY LEVEL IS AS NOTED)
	UNK	UNKNOWN UTILITY LINE (QUALITY LEVEL IS AS NOTED)
	ABAN	ABANDONED UTILITY LINE (QUALITY LEVEL IS AS NOTED)
		ASCE 38-22 INVESTIGATION BOUNDARY LINE
		END/LOSS OF SIGNAL
		LIMITS OF ASCE 38-22 INVESTIGATION
		CHANGE OF ASCE 38-22 QUALITY LEVEL
		END OF UTILITY LINE
		LINE LEADS TOWARD BUILDING
		(UTILITY OWNER)-(SIZE AND/OR TYPE)- (ASCE 38-22 QUALITY LEVEL)

**UTILITY SYMBOLS**

	TRAFFIC CONTROL MANHOLE		CATCH BASIN
	TRAFFIC SIGNAL JUNCTION BOX		SANITARY SEWER CLEANOUT
	TRAFFIC SIGNAL		SANITARY SEWER MANHOLE
	TRAFFIC SIGNAL LIGHT POLE		STORM DRAIN CLEANOUT
	TRAFFIC SIGNAL POLE		STORM DRAIN MANHOLE
	CROSSWALK SIGNAL		STAND PIPE
	STREET LIGHT JUNCTION BOX		STORM ROOF DRAIN
	UG TRAFFIC VAULT		CURB INLET
	ELECTRIC CABINET		CLOSED CIRCUIT TELEVISION
	ELECTRIC JUNCTION BOX		CABLE TELEVISION
	ELECTRIC MANHOLE		CONCRETE BOX CULVERT
	UG ELECTRIC VAULT		CONCRETE CYLINDER PIPE
	ELECTRIC RISER/OUTLET		CAST IRON PIPE
	ELECTRIC TRANSFORMER		REINFORCED CONCRETE PIPE
	LIGHT - ARM		COPPER PIPE
	LIGHT - GROUND		DUCTILE IRON PIPE
	LIGHT - ROUND		ELEVATION
	CATV MANHOLE		FIBER OPTIC TELEPHONE
	CATV RISER		FIBER OPTIC CABLE TELEVISION
	CATV WARNING SIGN		INVERT
	UG CATV VAULT		OVERHEAD
	TELEPHONE MANHOLE		OVERHEAD ELECTRIC
	TELEPHONE RISER		OVERHEAD TELEPHONE
	TELEPHONE WARNING SIGN		POLYETHYLENE PIPE
	UG TELEPHONE VAULT		PLASTIC PIPE
	FIBER OPTIC WARNING SIGN		PRIVATE
	FIBER OPTIC RISER		POLYVINYL CHLORIDE
			STEEL
			TELEPHONE
			TESTHOLE
			TOP OF NUT
			UNKNOWN
			UNKNOWN JUNCTION BOX
			UNKNOWN MANHOLE
			VITRIFIED CLAY PIPE

**ABBREVIATIONS**

ABDN	ABANDONED
ACP	ASBESTOS CONCRETE PIPE
CCTV	CLOSED CIRCUIT TELEVISION
CTV	CABLE TELEVISION
CBC	CONCRETE BOX CULVERT
CCP	CONCRETE CYLINDER PIPE
CIP	CAST IRON PIPE
RCP	REINFORCED CONCRETE PIPE
CU	COPPER PIPE
DIP	DUCTILE IRON PIPE
EL	ELEVATION
FOT	FIBER OPTIC TELEPHONE
FOCT	FIBER OPTIC CABLE TELEVISION
INV	INVERT
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
PE	POLYETHYLENE PIPE
PP	PLASTIC PIPE
PRI	PRIVATE
PVC	POLYVINYL CHLORIDE
STL	STEEL
TELE	TELEPHONE
TH	TESTHOLE
TN	TOP OF NUT
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE

**UTILITY OWNER ABBREVIATIONS**

AFSS	ADAMS 12 5-STAR SCHOOLS
CLN	CENTURYLINK
NTHG	CITY OF NORTHGLENN
COT	CITY OF THORNTON
CMCST	COMCAST
CRC	CROWN CASTLE
LEVEL 3	(CENTURYLINK)
MCI	LEVEL 3 (CENTURYLINK)
PRIV	PRIVATE UTILITY OWNER
UNPR	UNITED POWER INC.
XCEL	XCEL ENERGY

**811 RECORDS RESEARCH RESPONSES**

OWNER	UTILITY	ABBREVIATION	CONTACT	PHONE/EMAIL/WEBSITE	OFFICIAL 811 RESPONSE	ENGINEERING NOTE
ADAMS 12 FIVE STAR SCHOOLS	FIBER	AFSS	ADAMS 12 FIVE STAR SCHOOLS	(720)972-4000 / (303)862-8237 / HTTPS://WWW.ADAMS12.ORG	DID NO LOCATE	4
CENTURY LINK	FIBER AND TELECOM	CLN	CENTURY LINK RECORDS	RELOCATIONS@LUMEN.COM	MAPS PROVIDED	
CITY OF THORNTON	WATER, SEWER, STORM SEWER, AND IRRIGATION	COT	CITY OF THORNTON	(720)977-6210 / INFRASTRUCTUREDEPT@THORTONCO.GOV / HTTPS://WWW.THORTONCO.GOV/PAGES/DEFAULT.ASPX	MAPS PROVIDED	
CITY OF NORTHGLENN	WATER AND SEWER	NTHG	JASON HENSEL	(303)450-4050 / JHENSEL@NORTHGLENN.ORG / HTTPS://WWW.NORTHGLENN.ORG/GOVERNMENT/DEPARTMENTS/PUBLIC_WORKS/INDEX.PHPUTILITIES	CLEAR	
COMCAST	CATV AND FIBER	CMCST	COMCAST	(800)778-9140	DID NO LOCATE	
CROWN CASTLE	FIBER	CRC	CROWN CASTLE	(801)364-1063 / (724)416-2957 / HTTPS://WWW.CROWNCASTLE.COM	CLEAR	
MCI (VERIZON)	FIBER	MCI	MCI (VERIZON)	(800)289-3427 / INVESTIGATIONS@VERIZON.COM	CLEAR	5
UNITED POWER	ELECTRIC	UNPR	UNITED POWER - KASEY PFEIL	(303)637-1227 / (303)827-4497 / KPEIL@UNITEDPOWER.COM / WWW.UNITEDPOWER.COM	DID NO LOCATE	6
XCEL ENERGY	ELECTRIC AND GAS	XCEL	XCEL - GEOSPATIAL REQUESTS	(855)286-4227 / GEOSPATIALREQUESTS@XCELENERGY.COM	MAPS PROVIDED	

**ENGINEERING NOTES**

- MANHOLE M131101 EAST AND SOUTH PIPE SIZES OBTAINED FROM COT GIS DATABASE.
- MANHOLE M131102 EAST AND SOUTH PIPE SIZE AND MATERIAL OBTAINED FROM COT GIS DATABASE.
- MANHOLE M131103 EAST AND SOUTH PIPE SIZE OBTAIN FROM COT GIS DATABASE.
- DURING THE RECORDS RESEARCH INVESTIGATION ADAMS 12 FIVE STAR SCHOOLS RESPONDED "DID NOT LOCATE". HOWEVER, ADAMS 12 FIVE STAR SCHOOLS FACILITIES WERE FOUND TO BE PRESENT WITHIN THE PROJECT LIMITS. ADDITIONAL UTILITIES MAY EXIST AND ARE NOT DEPICTED ON THESE PLANS.
- DURING THE RECORDS RESEARCH INVESTIGATION MCI RESPONDED "CLEAR". HOWEVER, MCI PROVIDED A UTILITY RECORD MAP. DURING THE INVESTIGATION, MCI FACILITIES WERE FOUND TO BE PRESENT WITHIN THE PROJECT LIMITS. ADDITIONAL UTILITIES MAY EXIST AND ARE NOT DEPICTED ON THESE PLANS.
- DURING THE RECORDS RESEARCH INVESTIGATION UNITED POWER INC. RESPONDED "DID NOT LOCATE". HOWEVER, UNITED POWER INC. PROVIDED A UTILITY RECORD MAP INDICATING THAT UNDATED POWER INC. IS CLEAR OF THE PROJECT LIMITS.

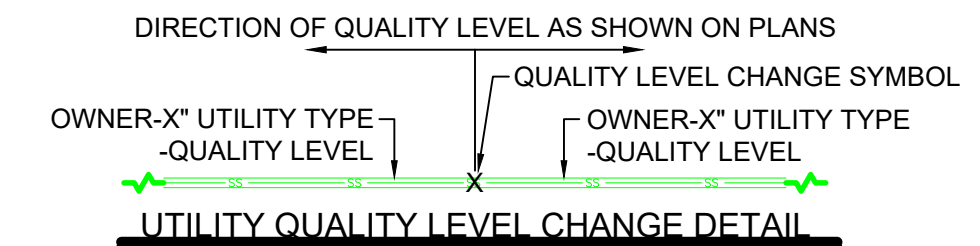
**UTILITY QUALITY LEVELS**

(OBTAINED FROM ASCE PUBLICATION C/ASCE STANDARD 38-22)

- QUALITY LEVEL "D" (QLD)  
A VALUE ASSIGNED TO A UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS, INFORMATION FROM OTHERS, OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE.
- QUALITY LEVEL "C" (QLC)  
A VALUE ASSIGNED TO A UTILITY SEGMENT NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE OF UTILITY FEATURES, VISIBLE ABOVE GROUND AND/OR UNDERGROUND. THE UTILITY ANCHOR POINT ON THE THE UTILITY FEATURES SHALL BE TIED TO THE PROJECT SURVEY DATUM WITH AN ACCURACY OF 0.2 FT (60 MM) HORIZONTAL.
- QUALITY LEVEL "B" (QLB)  
A VALUE ASSIGNED TO A UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND HORIZONTAL POSITION IS BASED ON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM.
- QUALITY LEVEL "A" (QLA)  
A VALUE ASSIGNED TO THAT PORTION (X, Y-, AND Z-GEOMETRY) OF A UTILITY SEGMENT OR A SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED AND MEASURED AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. THE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE SHALL BE TIED TO THE PROJECT SURVEY DATUM WITH AN ACCURACY OF 0.1 FT (30 MM) VERTICAL AND TO 0.2 FT (60 MM) HORIZONTAL FOR THE MEASUREMENTS OF THE OUTSIDE LIMITS OF THE UTILITY FEATURE OR UTILITY SEGMENT THAT IS EXPOSED.

**UTILITY DETECTION EQUIPMENT UTILIZED**

RADIODETECTION RD8100PDL
VIVAX METROTECH 810
VIVAX METROTECH VLOC PRO3
IMPULSE RADAR PINPOINT GPR
SCHONSTEDT MAGNETIC LOCATOR
MAGNAWAND - MAGNETIC LOCATOR
DETECTABLE RODDER

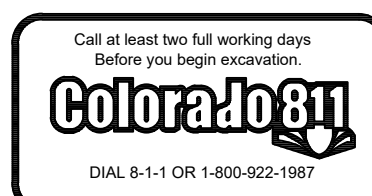


**SURVEY CONTROL**

CP #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BASIS OF BEARINGS THE NORTH MONUMENT LINE OF THE NORTHWEST 1/4 OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 68 WEST, 6TH PRIME MERIDIAN, MARKED BETWEEN THE FOUND BRASS CAP IN RANGE HOLE AT NORTHWEST CORNER AND THE FOUND BRASS CAP IN RANGE HOLE AT THE NORTH 1/4 CORNER, AS SHOWN ON WASHINGTON PLAZA SUBDIVISION, FILE 17, MAP 400, ADAMS COUNTY RECORDS. THE BEARING OF WHICH IS: SOUTH 89 DEGREES 55 MINUTES 28 SECONDS EAST				
BENCHMARK NGS BRASS CAP (DESIGNATION K 411) AT THE INTERSECTION OF 104TH AVENUE & YORK STREET. ELEVATION = 5286.43' (NAVD DATUM)				
9001	1201332.1010	3151924.0430	5286.4300	BRASS CAP AT 104TH AVE AND YORK ST. (BENCHMARK)
9006	1201447.8520	3146566.7140	5334.1000	BRASS CAP AT WASHINGTON AND 104TH ST.
9007	1201444.3720	3149205.4980	5294.3400	ALUMINUM CAP IN WASHINGTON, EAST OF MARION ST.

**SURVEYORS NOTE:** EPS GROUP CALIBRATED THE PROJECT TO THE COORDINATES LISTED ABOVE. ALL VALUES PROVIDED BY EPS GROUP, INC DIRECTLY RELATE TO THE CONTROL PROVIDED AND THE INFORMATION LISTED ABOVE.

**UTILITY INVESTIGATION STATEMENT OF ASCE 38-22 COMPLIANCE**  
THE UTILITIES DEPICTED HAVE BEEN INVESTIGATED IN GENERAL ACCORDANCE WITH THE ASCE 38-22, "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES," STANDARD AND SHOWN AT THEIR ACHIEVED QUALITY LEVELS. ALL OTHER INFORMATION HAS BEEN PROVIDED BY OTHERS AND INCLUDED AS REFERENCE ONLY.



Plot Stamp: 10/3/2024 4:18:16 PM - Andrew Mumbauer  
File: C:\Projects\EST. Inc\CO240200 - 104th and Washington2\_CADD\DWG\Model\CO240200 - SUR - SUE - UTIL.dwg



**UTILITY INVESTIGATION PLANS**

104TH & WASHINGTON

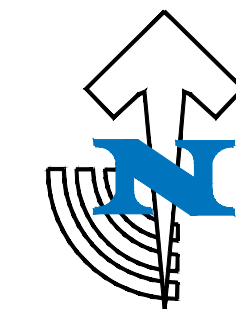
EST INC.

THORNTON, COLORADO

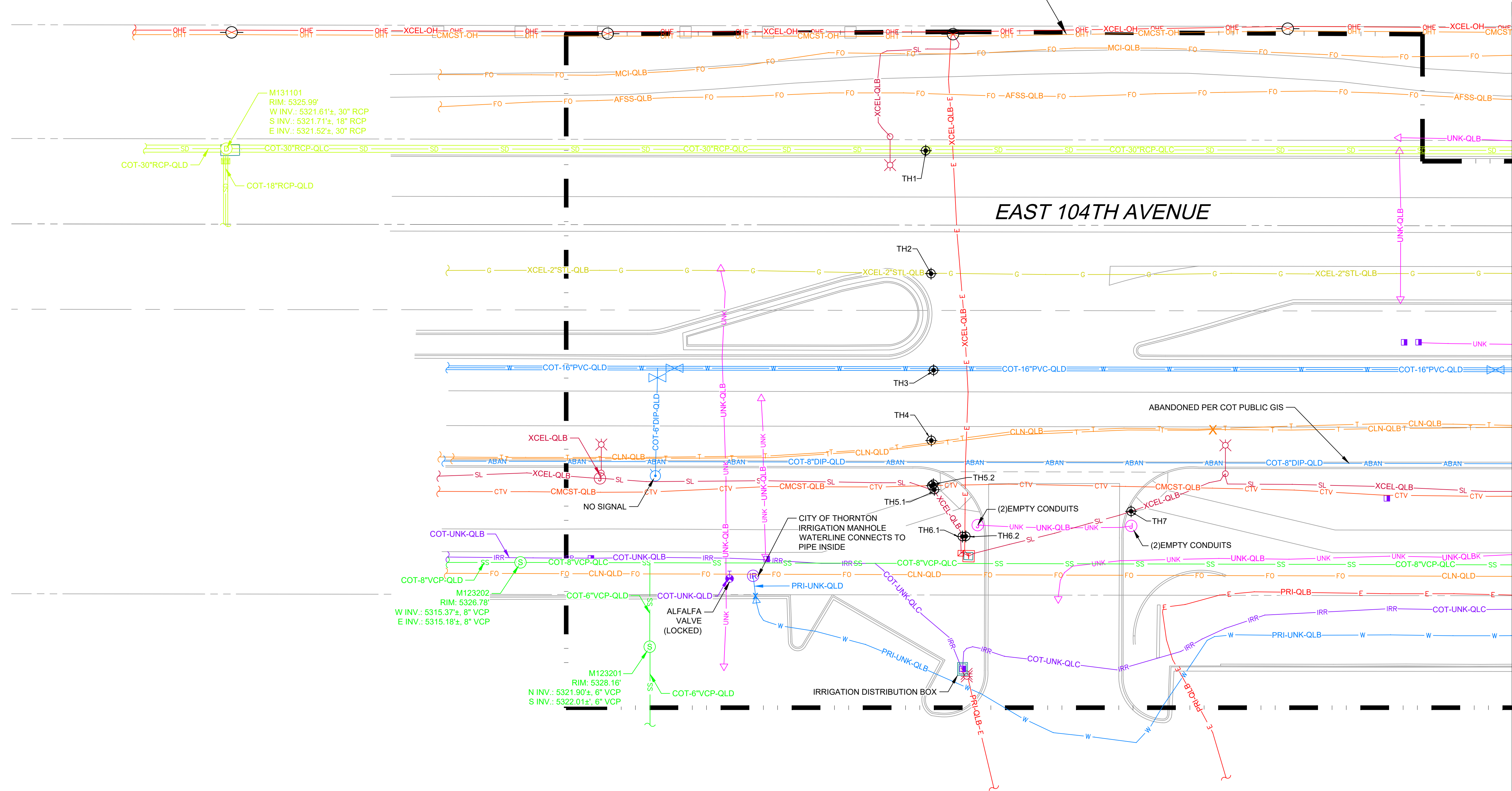
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DATE	02/23/2024
DRAWN	DLJ
SURVEYED	EPS GROUP
CHECKED	CD
PROJECT #	CO02400200
SHEET TITLE	GENERAL NOTES & LEGEND
SHEET NUMBER	U-002



LIMIT OF ASCE 38-22 INVESTIGATION



MATCH LINE SEE SHEET U-004

DATE	DESCRIPTION



DATE	02/23/2024
DRAWN	DLJ
SURVEYED	EPS GROUP
CHECKED	CD
PROJECT #	CO02400200
SHEET TITLE	PLAN SHEET
SHEET NUMBER	U-003

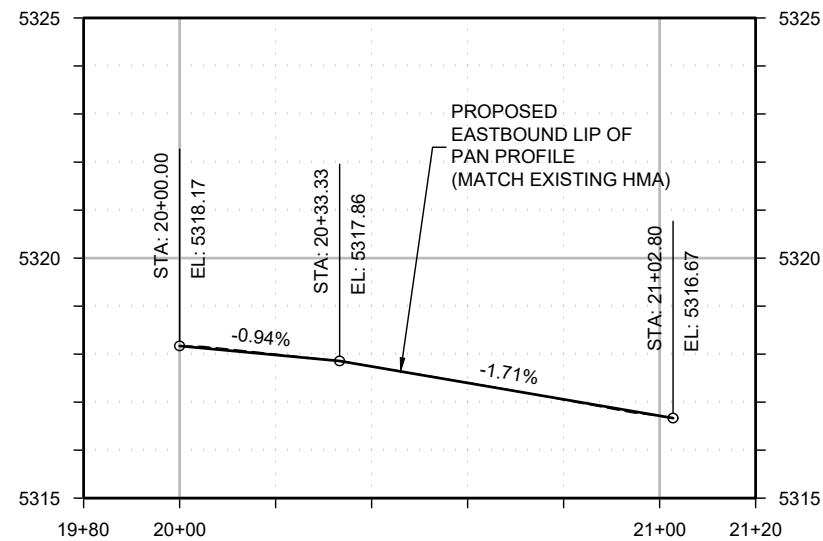
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 THE UTILITIES DEPICTED HAVE BEEN INVESTIGATED IN GENERAL ACCORDANCE WITH THE ASCE 38-22, "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES," STANDARD AND SHOWN AT THEIR ACHIEVED QUALITY LEVELS. ALL OTHER INFORMATION HAS BEEN PROVIDED BY OTHERS AND INCLUDED AS REFERENCE ONLY.



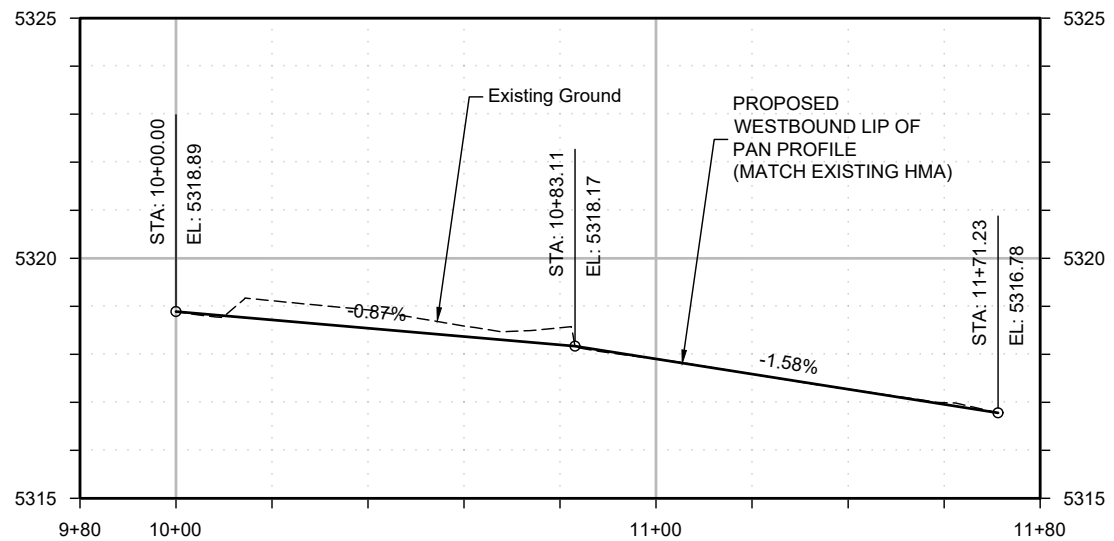




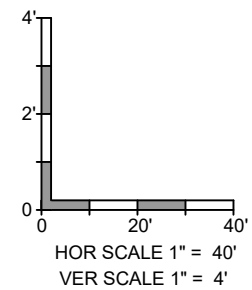




**EASTBOUND MEDIAN  
CURB AND GUTTER  
LIP OF PAN  
PROFILE**



**WESTBOUND MEDIAN  
CURB AND GUTTER  
LIP OF PAN  
PROFILE**



Plot Date: 11/11/2025 11:48 AM Plotted By: Bill Resneck  
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Print Date:	11/11/25
File Name:	23-03753_13_ROADWAY PROFILE.DWG
	1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.wsben.com

Sheet Revisions		
Date:	Comments	Init.

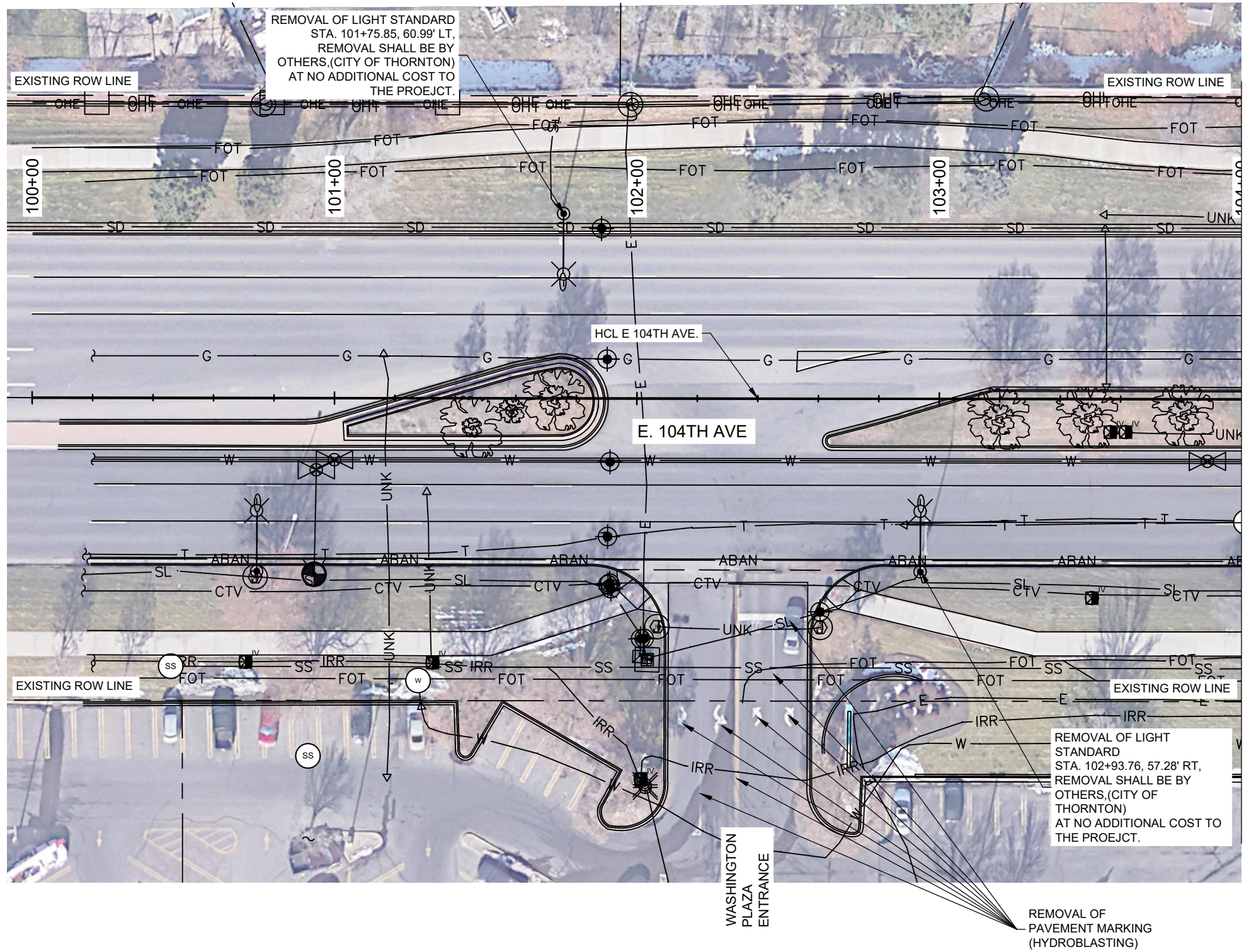
TRAFFIC ENGINEERING DIVISION  
12450 WASHINGTON ST.  
THORNTON CO. 80241

<b>As Constructed</b>
No Revisions:
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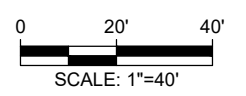
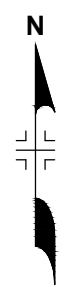
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Designer:	C. DREESEN	Structure	
Detailer:	J. DAVISON	Numbers	
Sheet Subset:	RDWY PROFILE	Subset Sheets:	01 of 01

<b>Project No.</b>
SHO M286-051
24697
<b>Sheet Number</b> 13





MATCHLINE STA. 104+00.00



File Date: 2/12/26 10:52 AM Plotted By: jay Division: C:\CDD\ENGINEERING\2025\23-03753-THORNTON TRAFFIC SIGNAL - 104TH X WASHINGTON PLAZAS - CADD\OUT SHEET\ROADWAY\23-03753\_09\_10\_REMOVAL PLANS.DWG

Print Date:	2/12/26
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	1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.wsbeng.com

Sheet Revisions		
Date:	Comments	Init.

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THORNTON CO. 80241

As Constructed
No Revisions:
Revised:
Void:

104TH AVENUE AND WASHINGTON PLAZA REMOVAL PLAN STA. 100+00 TO STA. 104+00			
Designer:	WJKjr	Structure	
Detailer:	CRB	Numbers	
Sheet Subset:	REMOVAL	Subset Sheets:	01 of 02

Project No.	SHO M286-051
	24697
Sheet Number	15









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).

**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. Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work

**8. NARRATIVES:**

**Control Measure Matrixes During Construction:**

1. 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).
2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
3. 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 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	
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	
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	



Print Date: 2/12/26		<b>Sheet Revisions</b>	<b>As Constructed</b>	<b>104TH AVENUE AND WASHINGTON PLAZA STORMWATER MANAGEMENT PLAN NARRATIVE</b>	<b>Project No.</b>	
File Name: 23-03753_14-21_SWMP.DWG		Date:      Comments      Init.	No Revisions:	SHO M286-051		
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				<div style="font-size: 8px; margin-top: 5px;">           TRAFFIC ENGINEERING DIVISION            12450 WASHINGTON ST.            THORNTON CO. 80241         </div>	24697	Sheet Number 20

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**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
	208-00012	Erosion Log Type 1 (9 inch)	LF	415	415		415
	208-00035	Aggregate Bag	LF	102	102		102
	208-00051	Storm Drain Inlet Protection (Type I)	EA	4	4		4
	208-00207	***Erosion Control Management (ECM)	Day	15	15	15	45
	607-11525	Fence (Plastic)	LF	40	40		40
X	700-70380	F/A Erosion Control	FA				1
X	700-70310	F/A Landscaping	FA				1

\*\*\* 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.

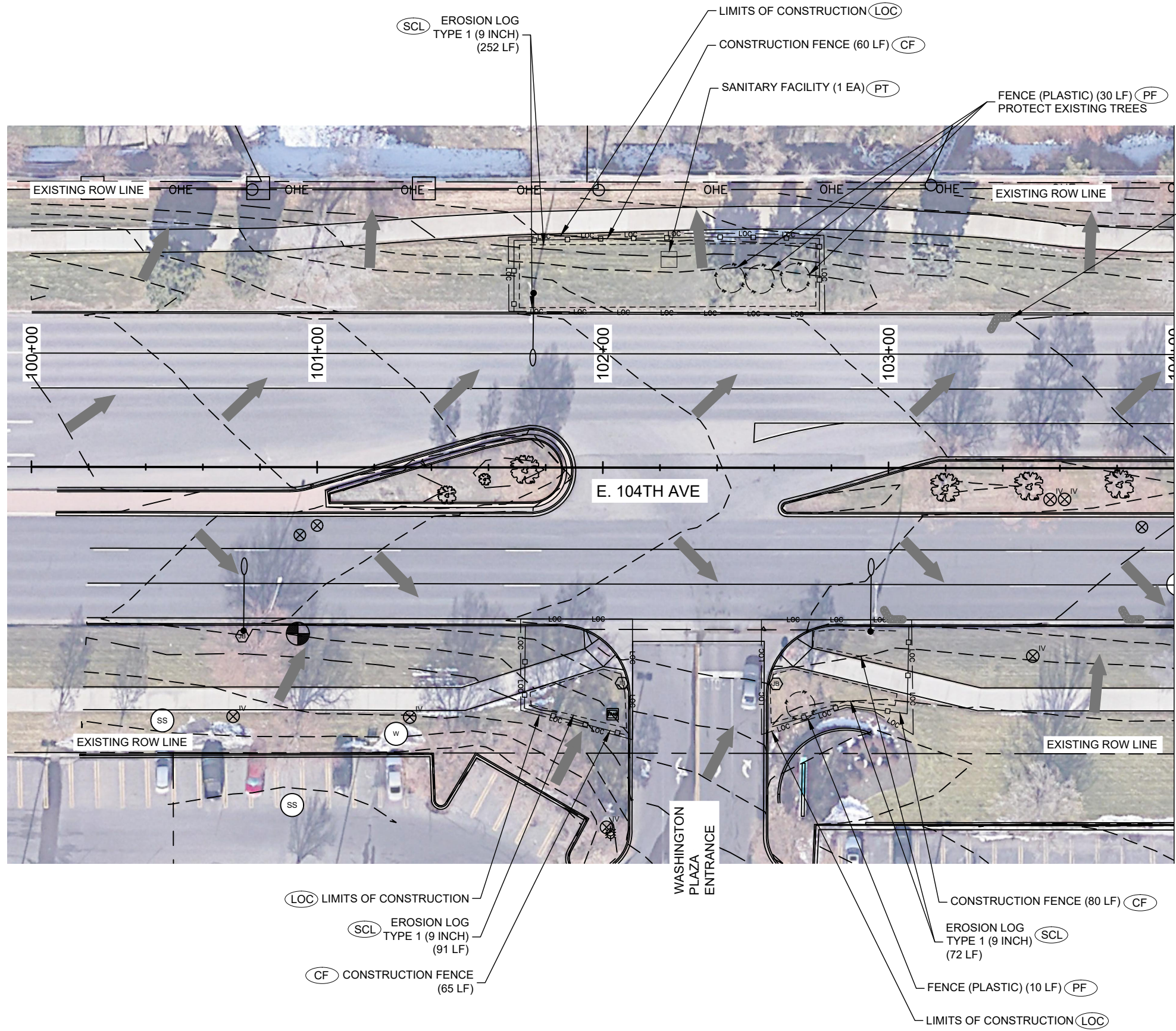
**11. NOTES**



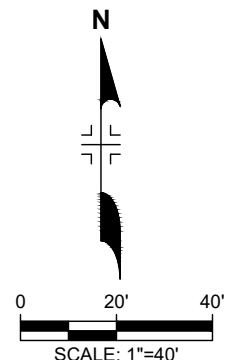
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Print Date: 11/11/25		1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.ws beng.com	Sheet Revisions				TRAFFIC ENGINEERING DIVISION 12450 WASHINGTON ST. THORNTON CO. 80241	As Constructed No Revisions: Revised: Void:	104TH AVENUE AND WASHINGTON PLAZA STORMWATER MANAGEMENT PLAN NARRATIVE		Project No. SHO M286-051
File Name: 23-03753_14-21_SWMP.DWG			Date:	Comments	Init.				Designer: J. DAVISON Detailer: J. DAVISON	Structure Numbers	24697
								Sheet Subset: SWMP	Subset Sheets: 03 of 05	Sheet Number 21	

File Date: 11/11/2025 11:49 AM Plotted By: Bill Resneck  
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LEGEND	
	(LOC) LIMITS OF CONSTRUCTION
	FLOW ARROW
	(SCL) CURB SOCK (AGGREGATE BAG)
	(CF) CONSTRUCTION FENCE
	(SCL) EROSION LOGS



- (LOC) LIMITS OF CONSTRUCTION
- (SCL) EROSION LOG TYPE 1 (9 INCH) (91 LF)
- (CF) CONSTRUCTION FENCE (65 LF)

- CONSTRUCTION FENCE (80 LF) (CF)
- EROSION LOG TYPE 1 (9 INCH) (SCL) (72 LF)
- FENCE (PLASTIC) (10 LF) (PF)
- LIMITS OF CONSTRUCTION (LOC)

Print Date:	11/11/25
File Name:	23-03753_14-21_SWMP.DWG
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Date:	Comments	Init.

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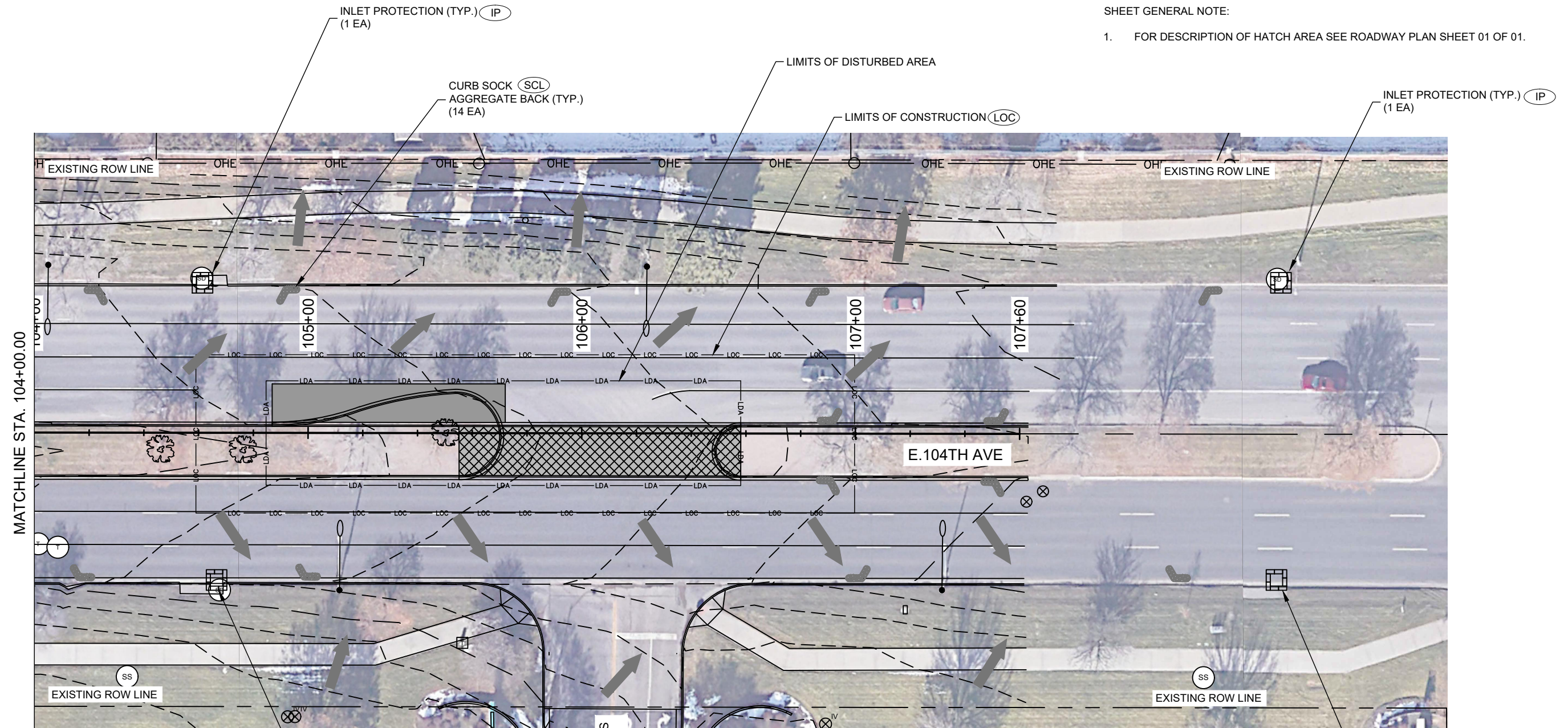
104TH AVENUE AND WASHINGTON PLAZA STORMWATER MANAGEMENT PLAN INITIAL/INTERIM/FINAL	
Designer:	J. DAVISON
Detailer:	J. DAVISON
Sheet Subset:	SWMP
Structure Numbers	
Subset Sheets:	04 of 05

Project No.	SHO M286-051
	24697
Sheet Number	22

Plot Date: 11/11/2025 11:49 AM Plotted By: Bill Resneck  
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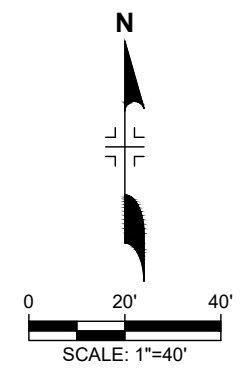
SHEET GENERAL NOTE:

- FOR DESCRIPTION OF HATCH AREA SEE ROADWAY PLAN SHEET 01 OF 01.



**LEGEND**

- LOC LIMITS OF CONSTRUCTION
- FLOW ARROW
- SCL CURB SOCK (AGGREGATE BAG)
- IP AREA INLET PROTECTION
- HOT MIX ASPHALT
- MEDIAN COVER MATERIAL



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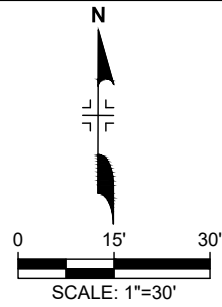
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As Constructed	No Revisions:
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Designer:	J. DAVISON
Detailer:	J. DAVISON
Sheet Subset:	SWMP
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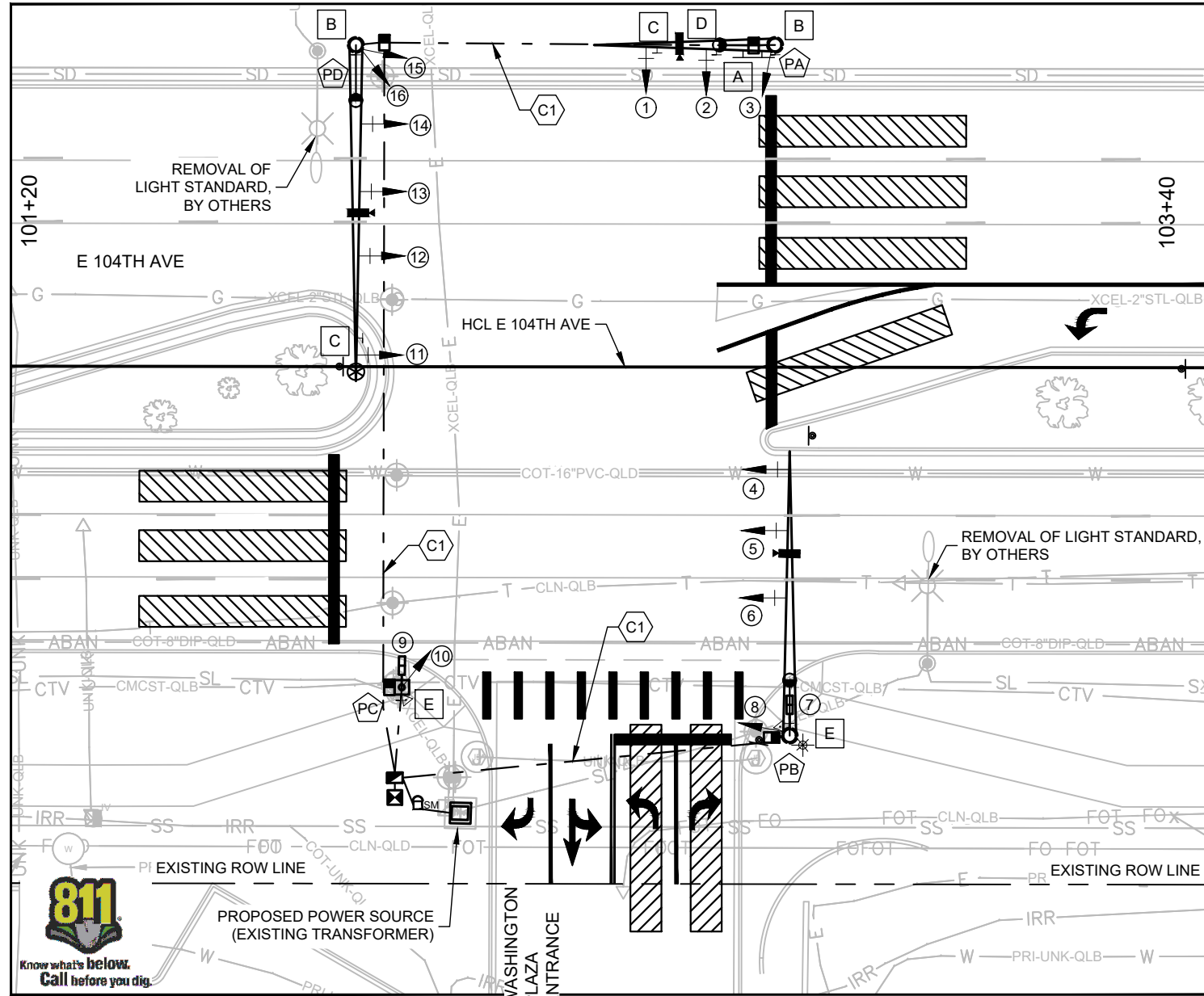
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	24697
Sheet Number	23

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**TRAFFIC SIGNAL CONDUIT**

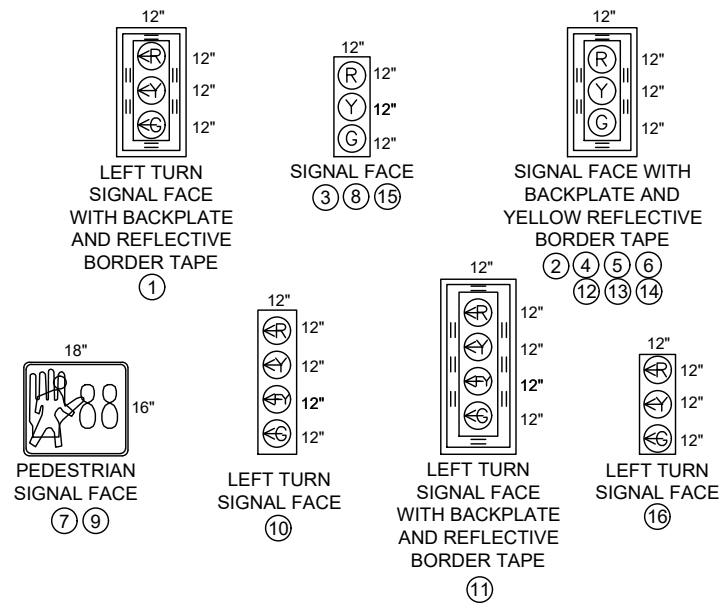
- 1 - 3" 120V ELECTRICAL CONDUIT
- 1 - 3" LOW VOLT CONDUIT
- 1 - 2" LUMINAIRE LOAD CONDUIT



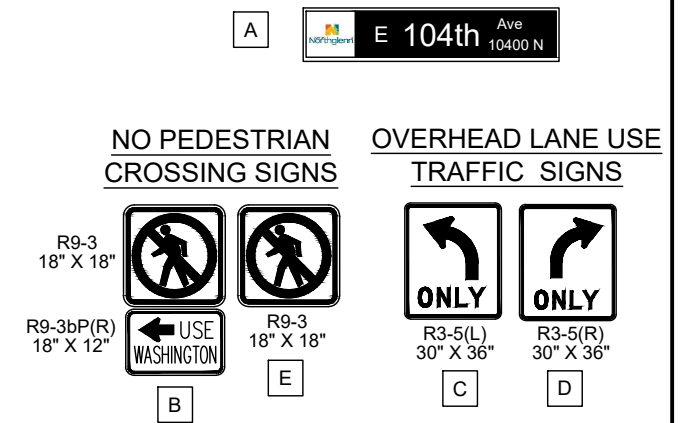
**TRAFFIC SIGNAL POLE SCHEDULE**

TRAFFIC SIGNAL POLE LETTER	PA	PB	PC	PD
TRAFFIC SIGNAL POLE LOCATION	NE CORNER	SE CORNER	SW CORNER	NW CORNER
NORTHING	1201509.29	1201375.67	1201385.03	1201509.29
EASTING	3147233.94	3147236.74	3147161.75	147152.88
TOP OF CAISSON ELEVATION	5321.58	5322.39	5322.3	5322.07
TRAFFIC SIGNAL MAST ARM LENGTH	35'	55'	PEDESTAL POLE	65'
TRAFFIC SIGNAL CONSTRUCTION STANDARD	S-614-40A	S-614-40A	S-614-44	S-614-40
CAISSON DIAMETER	36"	19'-0"	36"	19'-0"
CAISSON DEPTH (PAY LENGTH)	36"	19'-0"	18"	5'-0"
			48"	21'

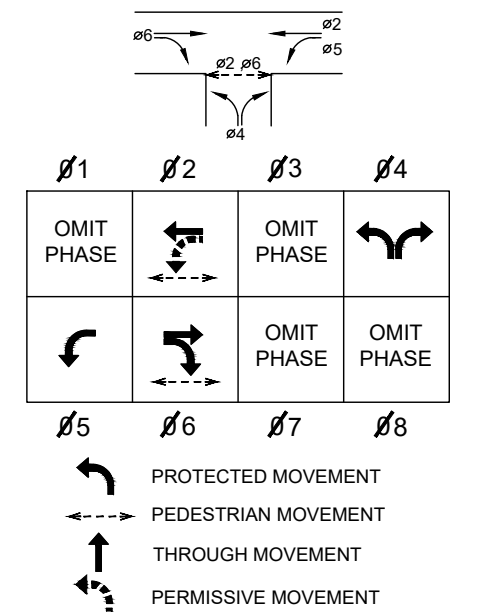
**TRAFFIC SIGNAL FACE DETAILS**



**STREET NAME SIGN**



**TRAFFIC SIGNAL PHASING DIAGRAM**



**TRAFFIC SIGNAL LEGEND**

- ➔ SIGNAL FACE WITHOUT BACKPLATE
- ➔ SIGNAL FACE WITH BACKPLATE
- ⊠ CONTROLLER, CABINET, & FOUNDATION
- ▣ PULL BOX (TYPE ONE)
- ▣ PULL BOX (TYPE TWO)
- ┆ SIGN PANEL
- ┆ ILLUMINATED STREET NAME SIGN
- △ PEDESTRIAN PUSH BUTTON
- ▭ PEDESTRIAN SIGNAL FACE
- ELECTRICAL CONDUIT
- SM SERVICE METER PEDESTAL
- ⊕ EMERGENCY PRE-EMPT UNIT (BACK TO BACK INSTALLATION SIGNAL POLE)
- SIGNAL POLE, CAISSON AND MAST ARM
- PEDESTAL POLE
- TRAFFIC SIGNAL POLE LUMINAIRE AND ARM
- ▣ VEHICLE DETECTION CAMERA
- ▨ TRAFFIC DETECTION AREA (VIRTUAL)
- ⋆ WIRELESS RADIO COMMUNICATIONS ANTENNA
- ▬ CROSSWALK / STOP LINE MARKING

**TABULATION OF TRAFFIC SIGNAL ITEMS**

ITEM NUMBER	ITEM DESCRIPTION	UNIT	E 104TH AVE & WASHINGTON PLAZA
503-00018	DRILLED SHAFT (18 INCH)	LF	5
503-00036	DRILLED SHAFT (36 INCH)	LF	38
503-00048	DRILLED SHAFT (48 INCH)	LF	21
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	267
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	578
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	49
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	34
613-07001	TYPE ONE PULL BOX	EACH	4
613-07002	TYPE TWO PULL BOX	EACH	1
613-10000	WIRING	LS	1
613-13000	LUMINAIRE	EACH	3
613-80130	SERVICE METER CABINET	EACH	1
614-10160	SIGNAL HEAD BACKPLATES	EACH	9
614-70150	PEDESTRIAN SIGNAL FACE (16) COUNTDOWN	EACH	2
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	12
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EACH	2
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1
614-72860	PEDESTRIAN PUSH BUTTON	EACH	2
614-72866	FIRE PREEMPTION UNIT AND TIMER	EACH	2
614-72886	INTERSECTION DETECTION SYSTEM (CAMERA)	EACH	3
614-81135	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 35 FOOT MAST ARM)	EACH	1
614-81155	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 55 FOOT MAST ARM)	EACH	1
614-81165	TRAFFIC SIGNAL - LIGHT POLE STEEL (1 - 65 FOOT MAST ARM)	EACH	1
614-84000	TRAFFIC SIGNAL PEDESTAL POLE STEEL	EACH	1
614-86105	TELEMETRY (FIELD)	EACH	1
614-86238	TRAFFIC SIGNAL CONTROLLER (SOLID STATE) (FULLY-ACTUATED) (8 PHASE)	EACH	1

**TRAFFIC SIGNAL SHEET NOTES:**

- ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN HEADS SHALL BE LED TYPE.
- THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, WIRING AND MISCELLANEOUS HARDWARE REQUIRED FOR INSTALLATION OF THIS TRAFFIC SIGNAL UNLESS OTHERWISE NOTED. ADDITIONAL ITEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM OR WORK FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER AT THE CONSTRUCTION SITE TO VERIFY CAISSON LOCATIONS AND MAST ARM LENGTHS PRIOR TO PURCHASE AND INSTALLATION.
- PEDESTRIAN PUSH BUTTONS SHALL BE ACCESSIBLE PEDESTRIAN SIGNAL (APS) TYPE.
- FOR TABULATIONS OF PEDESTRIAN CROSSING SIGNS AND OVERHEAD LANE USE SIGNS SEE PROJECT SIGNING AND STRIPING SHEET 3 OF 3.
- ALL MATERIALS FOR THE CONSTRUCTION OF THE INTERSECTION TRAFFIC SIGNAL PLAN SHALL BE PER THE CITY OF NORTHGLENN STANDARDS AND SPECIFICATIONS.

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As Constructed	104TH AVENUE AND WASHINGTON PLAZA TRAFFIC SIGNAL PLAN		Project No.
No Revisions:			SHO M286-051
Revised:	Designer: WJKjr	Structure Numbers	24697
Void:	Detailer: CRB		
	Sheet Subset: TRAF SIGNAL	Subset Sheets: 01 of 03	Sheet Number 24

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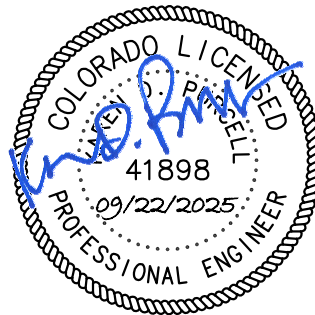


**GENERAL NOTES:**

- ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT NEC 2023 AND LOCAL CODES.
- DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC. TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL CIVIL DETAILS AND ADJUST WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. DISCREPANCIES BETWEEN DIFFERENT PLANS OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
- ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARDS.
- ALL WORK SHALL BE SUBJECT TO INSPECTION AND POSSIBLE REJECTION IF NOT IN ACCORDANCE WITH THE DRAWINGS AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- ANY REJECTED WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE REPRODUCIBLE RECORD DRAWINGS OF ALL COMPLETED WORK. MAINTAIN A COMPLETE SET OF ELECTRICAL DRAWINGS AT THE JOB SITE WITH ALL CHANGES OR VARIATIONS IN THE WORK MARKED IN AN OBVIOUS MANNER. A COMPLETE AS-BUILT SET OF DRAWINGS INCORPORATING ALL MARK-UPS OF THE WORK SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- MINIMUM SEPARATIONS FOR OTHER UTILITIES/FACILITIES ARE AS FOLLOWS UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITIES. POWER OR OTHER FOREIGN CONDUIT: 3" CONCRETE, 4" MASONRY, 12" WELL TAMPED EARTH. PIPES (OIL, GAS, ETC.) 6" WHEN CROSSING, 12" WHEN PARALLEL. STORM DRAIN: 6" WHEN CROSSING, 12" WHEN PARALLEL. WATER, SANITARY SEWER: 18" WHEN CROSSING, 5' WHEN PARALLEL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 811 PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
- DAMAGE TO ANY UTILITIES SHALL BE REPAIRED OR REPLACED IMMEDIATELY IN COMPLIANCE WITH THE DAMAGED UTILITY OWNER'S STANDARDS, AND INSPECTED PRIOR TO BACKFILL. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES PRIOR TO INSTALLATION OF NEW DUCTBANK.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS FROM DEMOLITION AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO CONDUIT, FASTENERS, BOXES, & ETC. MATERIALS EMBEDDED IN GRADE AND/OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.
- DO NOT SPLICE FEEDER CONDUCTORS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.
- THE MAXIMUM NUMBER OF CONDUIT BENDS SHALL NOT BE GREATER THAN 360 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
- ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
- ALL IN-GRADE JUNCTION BOXES SHALL BE A MINIMUM TIER 22 TYPE JUNCTION BOX PER ANSI/SCTE-77.
- ALL NEW LIGHTING AND DEVICES ASSOCIATED WITH ENERGIZING THE LIGHTING SYSTEM SHALL ADHERE TO THE LATEST XCEL ENERGY LIGHTING STANDARDS. ALL LIGHTS SHOULD BE ADJUSTED ON SITE WITH PROJECT MANAGER PRIOR TO COMPLETION OF THE PROJECT.
- (E) AND/OR GRAYED OUT LINES INDICATE EXISTING EQUIPMENT, (R) INDICATES RELOCATED EQUIPMENT, (N) AND/OR BOLD LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- SEE ONELINE DIAGRAM ON SHEET LS1 FOR CONDUIT, WIRE SIZES AND EQUIPMENT REQUIREMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPLICABLE UTILITY COMPANY'S DRAWINGS AND REPRESENTATIVES FOR DETERMINING THE EXACT RESPONSIBILITY OF EACH PARTY.
- REPAIR AND REPLACE ALL LANDSCAPING AND SITEWORK DISTURBED BY EXCAVATION INCLUDING BUT NOT LIMITED TO IRRIGATION LINES, LAWNS, PLANTING, ETC. CONFIRM WITH CITY PROJECT MANAGER ABOUT REPLACEMENT TYPE.
- WIRING SHALL BE COPPER, UNLESS NOTED OTHERWISE.

SHEET NAME:	SHEET NUMBER	TOTAL
ELECTRICAL COVER SHEET	E01	1
ELECTRICAL ONE-LINE DIAGRAM	E02	1
ELECTRICAL DETAILS SHEETS	E03, E04	2

Karen D. Purcell  
 Digitally signed by Karen D. Purcell  
 DN: c=US,  
 e=kpurcell@pk-electrical.com,  
 cn=Karen D. Purcell  
 Date: 2025.09.22 16:04:40-0700'



**ELECTRICAL LEGEND**

	POWER POLE		NEW PANELBOARD
	PAD MOUNTED TRANSFORMER VOLTAGE NOTED ON DRAWINGS		SHEET NOTE DESIGNATION
	SERVICE PEDESTAL METERED		FEEDER SIZE CALLOUT
	EXISTING SERVICE PEDESTAL		DETAIL REFERENCE SHEET DESIGNATION
	GROUND ROD		CONDUIT RUN CALLOUT
	OVERHEAD ELECTRIC LINE	AFG	ABOVE FINISHED GRADE
	NEW UNDERGROUND ELECTRICAL LINE	DIA	DIAMETER
	NEW SURFACE MOUNTED ELECTRICAL LINE	LCC	LIGHTING CONTROL CABINET
	EXISTING ELECTRICAL WORK	MV	MEDIUM VOLTAGE
	EXISTING SITE LIGHT	MIN	MINIMUM
	EXISTING PEDESTRIAN LIGHT	N.I.C.	NOT IN CONTRACT
	HOME RUN - NUMBER OF ARROWS INDICATED NUMBER OF CIRCUITS	OH	OVERHEAD
	NEW LIGHT STANDARD	PB	PULL BOX
	EXISTING LIGHT STANDARD TO RELOCATED	PE	PERMANENT EASEMENT
	EXISTING LIGHT STANDARD TO BE REMAIN	POS	POINT OF SERVICE
	DISCONNECT SWITCH (FUSED OR NON-FUSED INDICATED ION DRAWINGS)	P.V.C.	POLYVINYL CHLORIDE CONDUIT
	METER	R.O.W.	RIGHT OF WAY
	ELECTRIC PULL BOX (11" X 18" X 12")	(RL)	RELOCATE
	ELECTRIC PULL BOX (24" X 36" X 24")	(N)	NEW
	TRAFFIC SIGNAL CABINET.	(E)	EXISTING
	SURFACE MOUNTED JUNCTION BOX	(X)	REMOVE/DEMOLISH
	LUMINAIRE FIXTURE TAG	TC	TRAFFIC CABINET
		TCE	TEMPORARY CONSTRUCTION EASEMENT
		XFMR	TRANSFORMER
		U.N.O.	UNLESS NOTED OTHERWISE
		UD	UNDERDECK
		U.G.	UNDERGROUND

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Print Date: 06/03/2025



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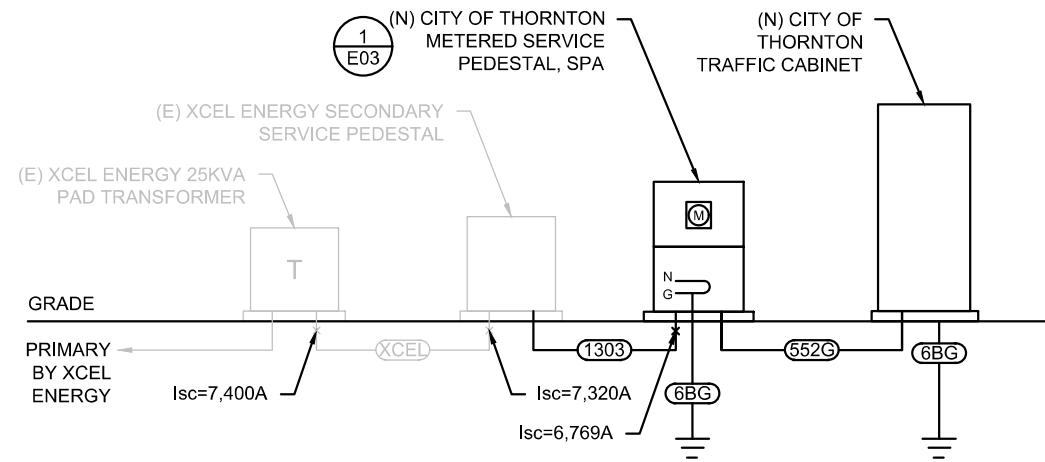


TRAFFIC ENGINEERING DIVISION  
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104TH AVENUE AND WASHINGTON PLAZA ELECTRICAL COVER SHEET			
Designer:	ZJ	Structure Numbers	
Detailer:	HS		
Sheet Subset:	ELECTRICAL	Subset Sheets:	E01 of 04

Project No.
M286-051
24697
Sheet Number 27



**ELECTRICAL ONE-LINE DIAGRAM, SPA**  
E 104TH AVE & WASHINGTON PL.

**GENERAL NOTES:**

1. REFER TO TRAFFIC SIGNAL SHEET 1 FOR LOCATION OF THE EXISTING PAD MOUNTED TRANSFORMER (PROPOSED POWER SOURCE).
2. EXISTING XCEL ENERGY SECONDARY CONNECTION PEDESTAL IS LOCATED ADJACENT TO THE PAD MOUNTED TRANSFORMER JUST TO THE WEST. CONFIRM CONNECTION POSITION WITH XCEL ENERGY PRIOR TO CONSTRUCTION.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR GENERATING AND SUBMITTING THE NECESSARY UTILITY NEW SERVICE APPLICATIONS.
4. REFER TO CDOT M&S STANDARDS PLAN NUMBER S-613-4 SHEET 2 FOR TYPICAL TRAFFIC SIGNAL ONE-LINE DIAGRAM DETAILS.

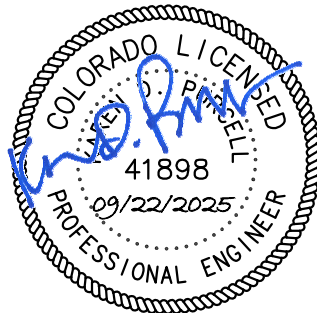
20-May-25		PANEL: SPA				LOCATION: SW CORNER OF INTERSECTION					
TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	CIR	BKR	LOAD	DESCRIPTION	TYPE
L	TRAF SIGN POLE LIGHT	480	20	1	660		2	20	180	PED GFCI RECEPT	R
L	STREET NAME SIGN	500	20	3		5300	4	50	4800	TRAFFIC SIGNAL	E
E	PED LTG CTRL CKT	200	15	5	200		6			SPACE ONLY	
	SPARE			7			8			SPACE ONLY	
					860	5300					
<b>COPPER BUS SIZE:</b>		125			<b>GROUND:</b>		STANDARD		<b>NOTES:</b>		
<b>VOLTAGE:</b>		240			<b>MOUNTING:</b>		PEDESTAL				
<b>PHASE:</b>		1			<b>ENCLOSURE:</b>		NEMA 3R				
<b>WIRE:</b>		3			<b># OF 1-POLE CIRCUITS</b>		8				
<b>LUGS:</b>		MCB			<b>CONNECTED KVA:</b>		6.2				
<b>BREAKER AIC RATING:</b>		10K			<b>CONNECTED AMPS:</b>		25.7				
<b>NEUTRAL:</b>		100%			<b>NET KVA:</b>		6.2				
<b>FEEDER OCPD SIZE:</b>		100			<b>NET AMPS:</b>		25.7				

FEEDER SCHEDULE (120/240V, 1Ø, 3W)				
FEEDER	AMPERE	WIRE (CU)	BOND (CU)	CONDUIT
302G#	30	(2) 10	10	-
552G	55	(2) 6	6	2" ^
1303	130	(3) 1	-	2" ^
XCEL	-	-	-	-
6BG	-	-	6	GROUND ROD(S)*

\* - GROUND ROD(S) SHALL BE COPPER AND 3/4" X 10'-0" IN LENGTH  
 ^ - CONDUIT SHALL BE PVC SCHEDULE 40.  
 # - CIRCUIT FOR INTERNAL PEDESTAL GFCI RECEPTACLE.  
 XCEL - EXISTING CONDUCTORS SIZED BY XCEL ENERGY. TYPICAL SIZE IS (3) 350MCM ALUMINUM.



Know what's below.  
Call before you dig.



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**104TH AVENUE AND WASHINGTON PLAZA  
ELECTRICAL ONE-LINE DIAGRAM**

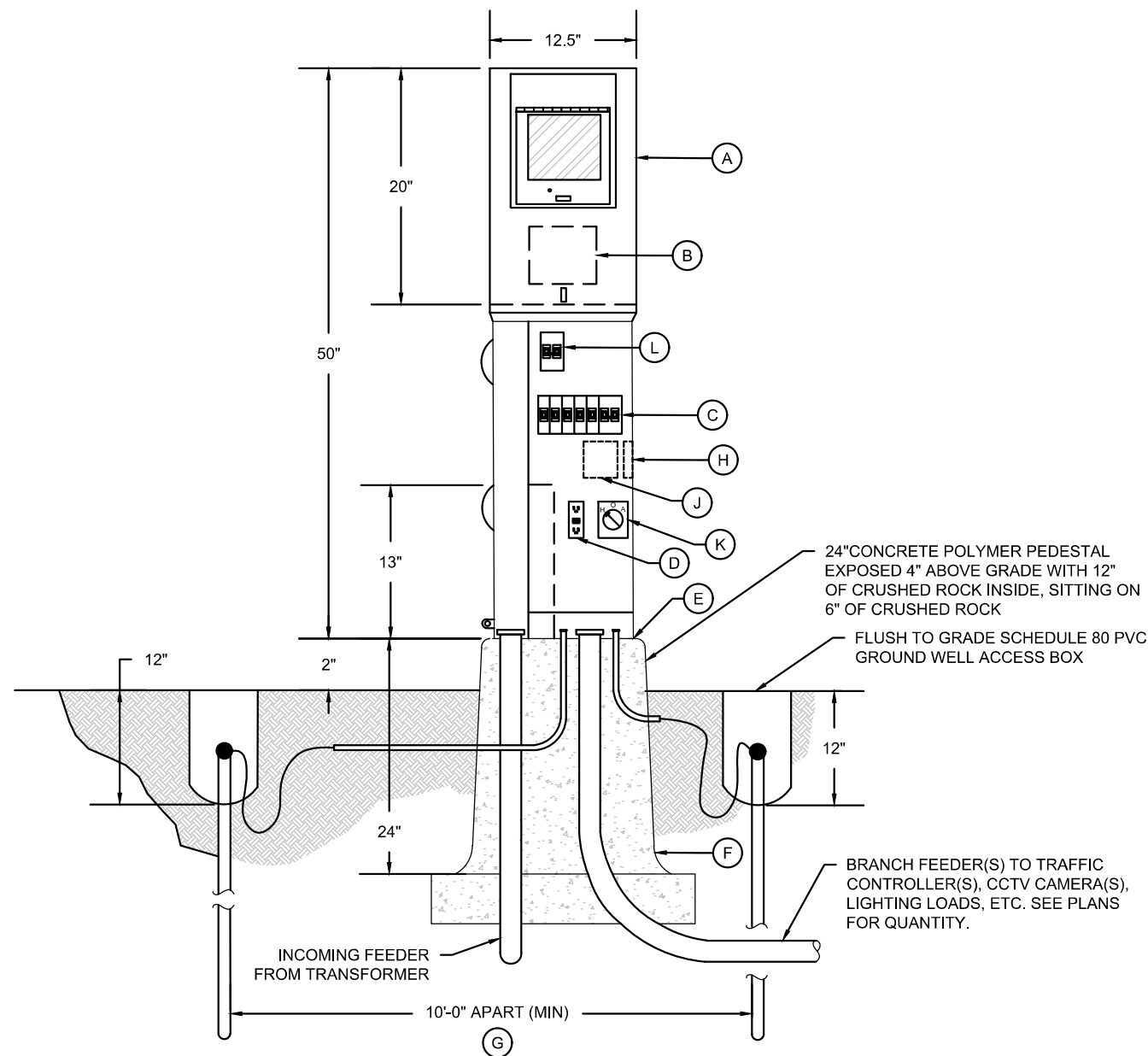
Designer: ZJ  
Detailer: HS  
Structure Numbers  
Sheet Subset: ELECTRICAL  
Subset Sheets: E02 of 04

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24697  
Sheet Number 28  
28



ENGINEERING | DESIGN | CONSULTING



**COMPONENT LIST**

- (A) STAINLESS STEEL, 100A, 129/240V, COMBINATION, SERVICE ENTRANCE RATED, COLD SEQUENCE, METER/POWER PEDESTAL W/ LEVER BYPASS, LOAD CENTER, MCB AND FUSED TEE-HANDLE PULL OUT DISCONNECT AHEAD OF METER TO LOCAL UTILITY SPECIFICATIONS. SEE PANEL SCHEDULE FOR SIZE OF MAIN AND NUMBER AND SIZE OF BRANCH BREAKERS REQUIRED
- (B) TEE- HANDLE, PULL-OUT FUSE TYPE, DISCONNECT FLUSH MOUNTED INTO THE BACK OR SIDE OF THE ENCLOSURE WITH TAB FOR SEAL. THIS ITEM MAY BE OMITTED BY UTILITY COMPANY SPECIFICATIONS HOT SEQUENCE REQUIREMENTS.
- (C) BRANCH CIRCUIT BREAKER SECTION, FOR CUSTOMER LOADS. SEE PANEL SCHEDULES FOR SIZE OF BREAKERS AND NUMBER OF POLES REQUIRED. MAIN CIRCUIT BREAKER SHALL NOT BE INCLUDED IN THIS SECTION.
- (D) BUILT-IN GFCI NEMA 5-20R, DUPLEX, GFCI MAINTENANCE RECEPTACLE FLUSH MOUNTED IN PANEL DEAD-FRONT
- (E) PROVIDE RECESSED CONCRETE PAD MOUNTING PLATE WITH L-BOLTS TO MATCH THE ENCLOSURE BASE BOLT PATTERN.
- (F) OPTION 1: POLYMER CONCRETE PEDESTAL FOUNDATION WITH FIBERGLASS REINFORCEMENT. THE PAD SHALL BE CONTINUES CLOTH REINFORCEMENT ON THE INSIDE AND OUTSIDE OF THEIR PERIMETER. WEIGHT OF THE FOUNDATIONS SHALL BE STENCILED ON THE SIDE WALL OF THE FOUNDATION.  
 OPTION 2: PROVIDE 4500 PSI, RE-BAR RE-ENFORCE, CONCRETE WITH A DIRECT EARTH BURY DEPTH OF 18" (MINIMUM), 2" OVERLAP OF THE ENCLOSURE ON ALL SIDES FRONT AND BACK AND 2" EXPOSURE ABOVE GRADE. PROVIDE 3/4" CHAMFERED EDGES. PROVIDE STRUCTURE ENGINEERED STAMPED DRAWING FOR PAD.
- (G) 3/4" x 10'-0" Lg, COPPER-CLAD DRIVEN GROUND RODS. EXOTHERMIC WELD OR UNDERGROUND LUG CONNECT CONDUCTOR TO ROD. (2) RODS REQUIRED. GROUND ROD TO BE LOCATED IN SCHEDULE 80 PVC GROUND WELL ACCESS WITH BOLT DOWN COVER AND "GROUND" CAST INTO LID.
- (H) BUILT-IN PHOTOCELL FOR ON/OFF CONTROL OF LUMINAIRES ON SIGNAL POLES.
- (J) BUILT-IN, 2-POLE 20A, LIGHTING CONTACTOR FOR ON/OFF CONTROL OF LIGHTS ON SIGNAL POLES.
- (K) OPTIONAL HAND-OFF-AUTO SWITCH WHEN ITEMS 'H' AND 'J' ABOVE ARE USED. PROVIDE THIS HOA SWITCH WITH THE PHOTOCELL CONTROL WIRED IN THE AUTO POSITION.
- (L) MAIN CIRCUIT BREAKER (MCB), MCB SHALL BE SEPARATE OF BRANCH CIRCUIT BREAKER SECTION.

NOTE: ALL COMPONENTS LISTED SHALL BE INCLUDED IN RHW METERED POWER PEDESTAL PAY ITEM. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED PER THE APPROPRIATE UL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO 508A INDUSTRIAL CONTROL CENTER.

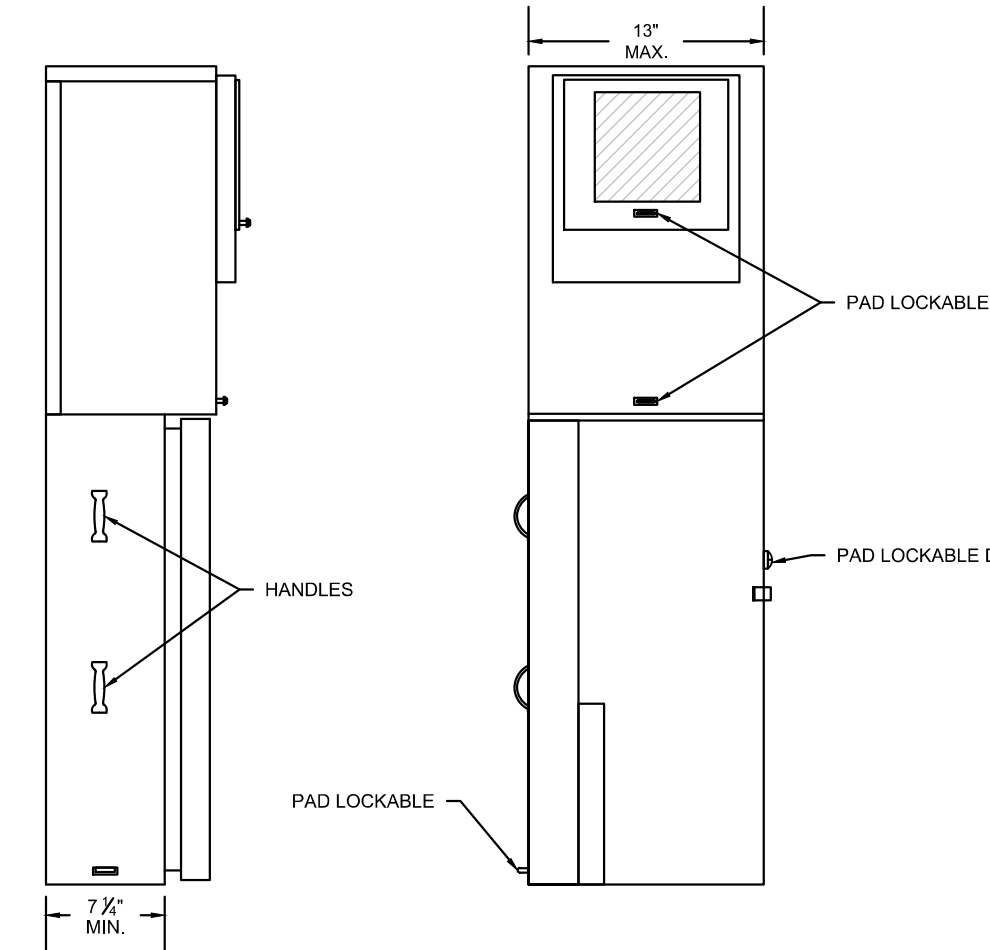
TYPICAL METERED POWER PEDESTAL 1/E03  
NO SCALE



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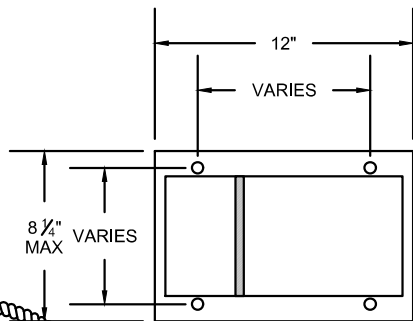
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	Date:	Comments	Init.		No Revisions:			M286-051
				Revised:	Designer: ZJ	Structure Numbers	24697	
				Void:	Detailer: HS			
					Sheet Subset: ELECTRICAL	Subset Sheets: E03 of 04		Sheet Number 29/29

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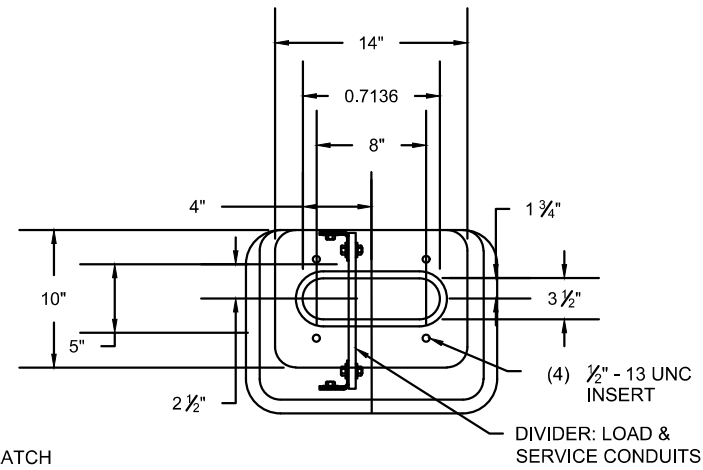


METER CABINET  
(LEFT SIDE VIEW)

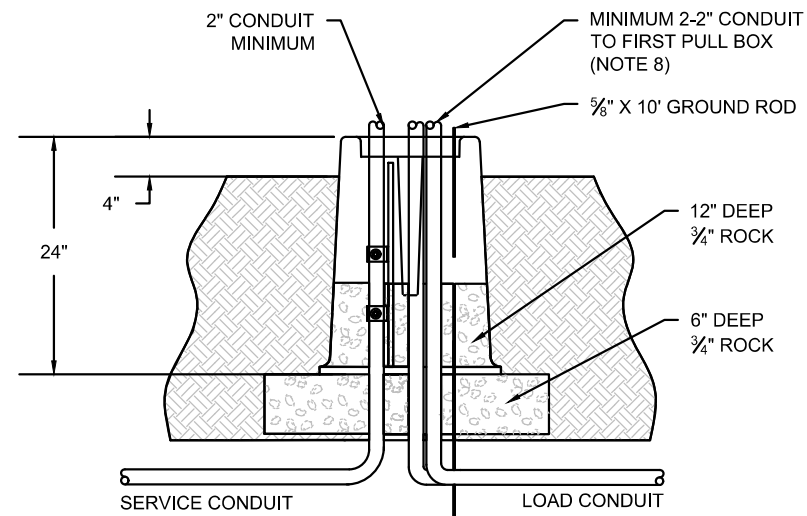
METER CABINET  
(FRONT VIEW)



CABINET BASE  
(PLAN VIEW)



CABINET FOUNDATION  
(PLAN VIEW)

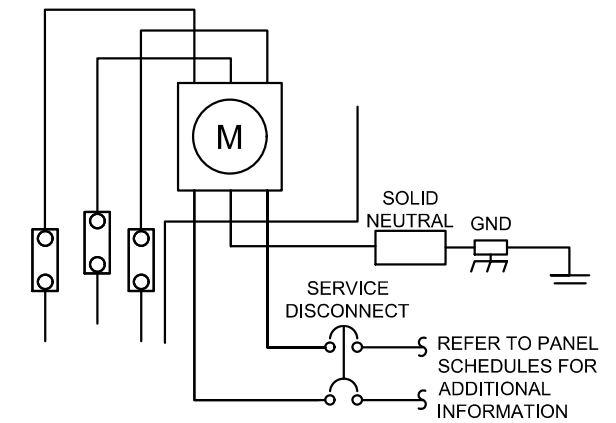


CABINET FOUNDATION  
(PLAN VIEW)

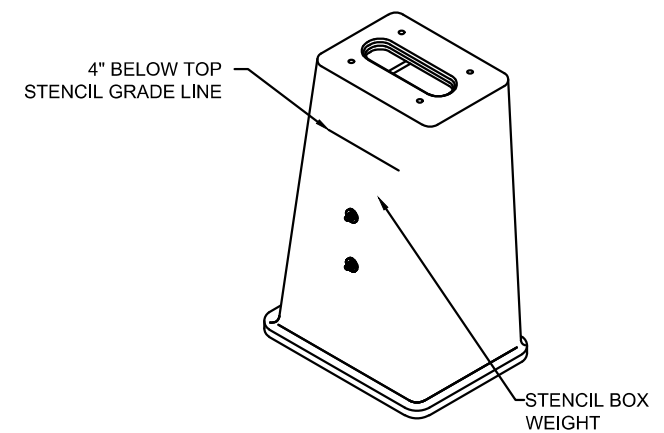
TYPICAL SERVICE PEDESTAL DETAIL  
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**DETAIL NOTES:**

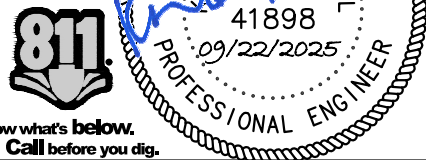
1. METER CABINET SHALL MEET THE MPEI SERVICE EQUIPMENT REQUIREMENTS COMMITTEE (EUSERC) GUIDELINES.
2. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
3. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
4. WEIGHT OF FOUNDATIONS SHALL BE STENCILED ON ONE SIDEWALL OF THE FOUNDATION.
5. THROAT & BOLT PATTERNS MAY CHANGE TO VARIOUS SERVICE PEDESTAL MANUFACTURERS REQUIREMENTS.
6. DETAIL PROVIDED TO SHOW TYPICAL SERVICE PEDESTAL INSTALLATION.
7. PEDESTAL SHALL BE QUIPPED WITH GFCI DUPLEX RECEPTACLE.
8. TAKE AN ADDITIONAL SPARE 2" CONDUIT OUTSIDE OF THE PEDESTAL AND CAP. ON ALL NEW SERVICE PEDESTAL.



WIRING DIAGRAM

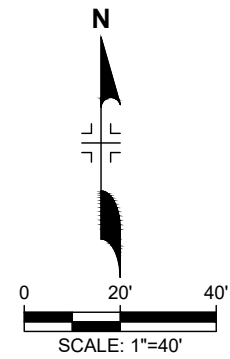
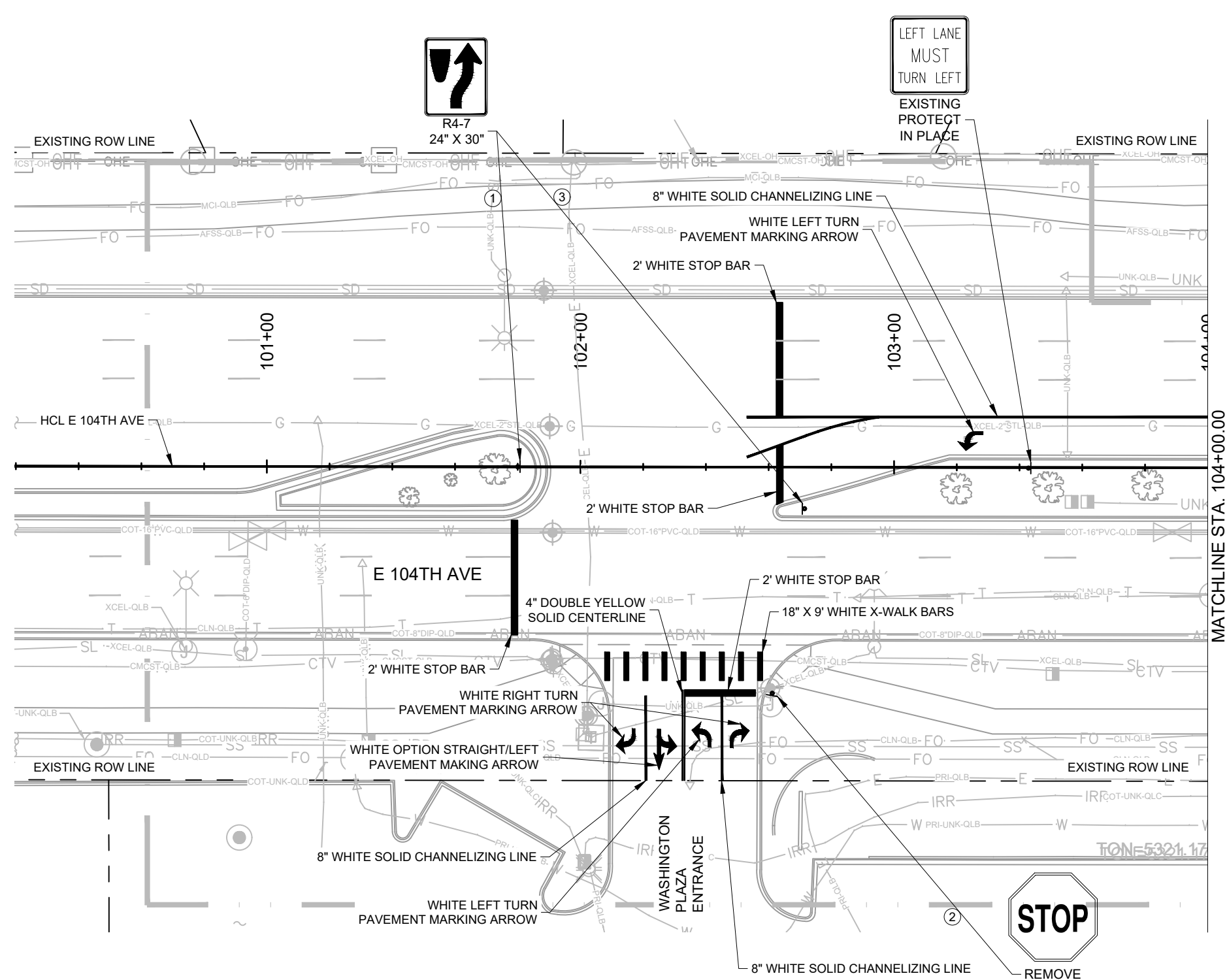


CABINET FOUNDATION  
(ISOMETRIC VIEW)



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Print Date: 06/03/2025	Sheet Revisions				As Constructed No Revisions: Revised: Void:	104TH AVENUE AND WASHINGTON PLAZA ELECTRICAL DETAILS SHEET			Project No.
	Date:	Comments	Init.			Designer: ZJ Detailer: HS Sheet Subset: ELECTRICAL	Structure Numbers Subset Sheets: E04 of 04	M286-051 24697 Sheet Number 30 of 30	
					TRAFFIC ENGINEERING DIVISION 12450 WASHINGTON ST. THORNTON CO. 80241				



- SHEET NOTES:**
1. ALL PAVEMENT MARKINGS ON THE BUSINESS ACCESS ENTRANCE SHALL BE INSTALLED ON CITY RIGHT OF WAY.
  2. ALL PAVEMENT MARKINGS NOT SHOWN ON 104TH AVE SHALL REMAIN IN PLACE. PROTECT IN PLACE.
  3. ALL EXISTING PAVEMENT MARKINGS ON THIS SHEET FOR THE WASHINGTON PLAZA ACCESS ARE TO BE REMOVED AND NEW PAVEMENT MARKINGS INSTALLED AS SHOWN.



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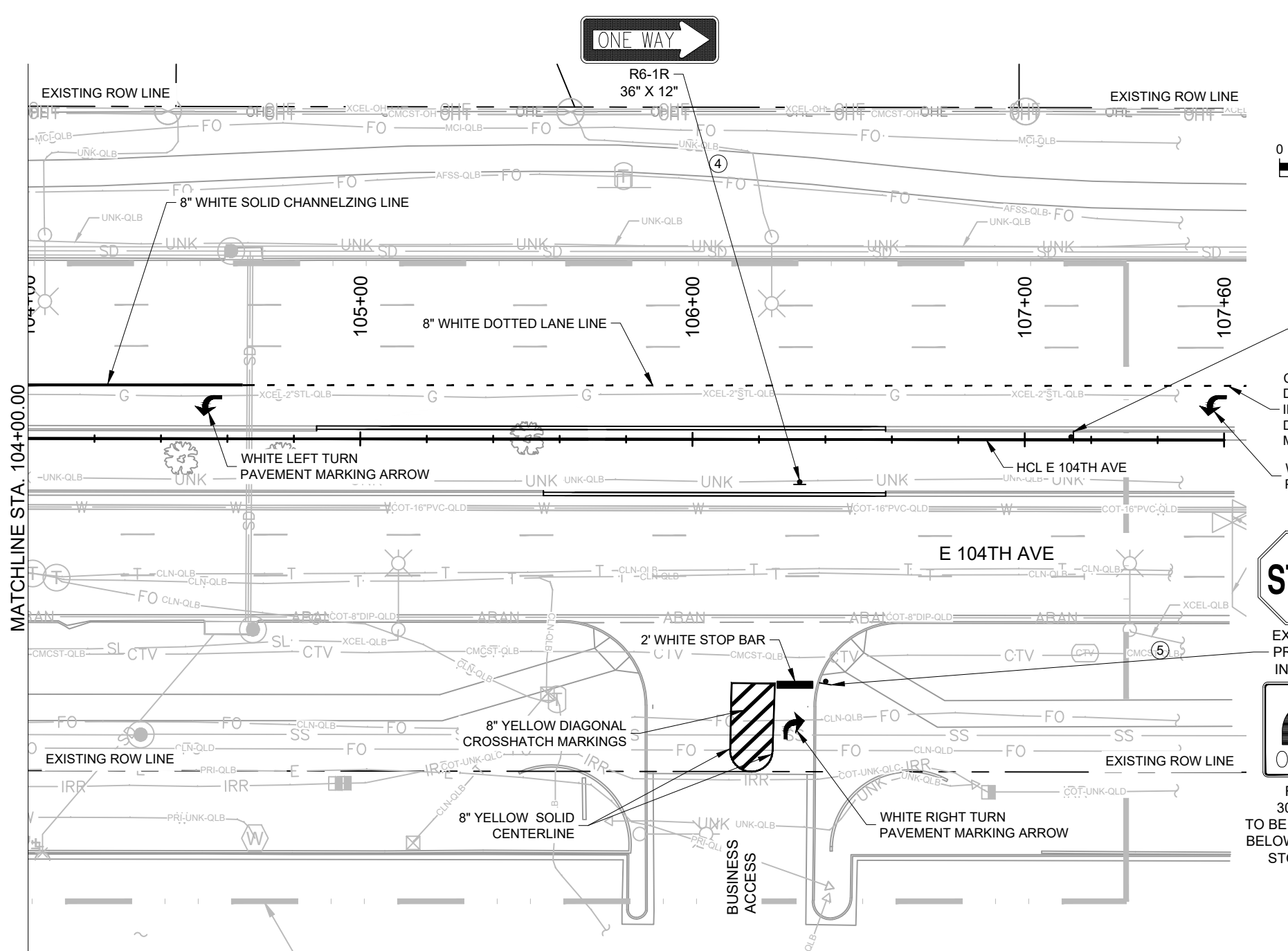
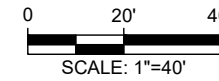
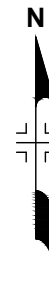
104TH AVENUE AND WASHINGTON PLAZA SIGNING & STRIPING PLAN		
Designer:	WJKjr	Structure Numbers
Detailer:	CRB	
Sheet Subset:	SIGN & STRP	Subset Sheets: 01 of 03

Project No.	SHO M286-051
	24697
Sheet Number	31

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**SHEET NOTES:**

1. ALL PAVEMENT MARKINGS ON THE BUSINESS ACCESS ENTRANCE SHALL BE INSTALLED ON CITY RIGHT OF WAY.
2. ALL PAVEMENT MARKINGS NOT SHOWN ON 104TH AVE SHALL REMAIN IN PLACE. PROTECT IN PLACE.



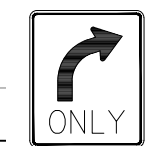
EXISTING PROTECT IN PLACE

CONTINUE INSTALLATION OF 8" WHITE DOTTED LANE LINE 160 FT EAST TO DOWNING ST. INTERSECTION. AT THE END OF THE 8 INCH WHITE DOTTED LINE INSTALL ONE WHITE LEFT TURN PAVEMENT MARKING ARROW IN CENTER OF LEFT TURN LANE

WHITE LEFT TURN PAVEMENT MARKING ARROW



EXISTING, PROTECT IN PLACE



R3-5R  
30" X 36"  
TO BE INSTALLED BELOW EXISTING STOP SIGN



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Detailer:	CRB	Numbers	
Sheet Subset:	SIGN & STRP	Subset Sheets:	02 of 03

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 Plotted By: Bill Reseck  
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**TABULATION OF SIGNS**

SIGN NO.	SIGN CODE	LEGEND	ALIGNMENT	STATION	SIDE	SIGN PANEL SIZE (INCHES)	BACKGROUND COLOR	202-00810		614-00214		614-00011		REMARKS
								REMOVAL GROUND SIGN	NO. OF POSTS	STEEL SIGN POSTS (1.75 X 1.75 INCH TUBING)		SIGN PANEL (CLASS 1)		
										EA	EA		LF	
1	R4-7	KEEP RIGHT	HCL E 104TH AVE	101+80.00	LT	24 X 30	WHITE	-	1	11	5		INSTALL FACING EAST	
2	R1-1	STOP SIGN	HCL E 104TH AVE	102+61.27	RT			1					REMOVE STOP SIGN	
3	R4-7	KEEP RIGHT	HCL E 104TH AVE	102+71.49	RT	24 X 30	WHITE	-	1	11	5		INSTALL FACING WEST	
4	R6-1(R)	ONE-WAY RIGHT	HCL E 104TH AVE	106+32.30	RT	36 X 12	WHITE	-	1	11	3		INSTALL FACING SOUTH	
5	R3-5(R)	RIGHT ONLY	HCL E 104TH AVE	106+40.19	RT	30 X 36	WHITE				8.00		INSTALL FACING SOUTH	
A	R9-3	NO PEDESTRIAN CROSSING SYMBOL	HCL E 104TH AVE	101+83.13	LT	18 X 18	WHITE	-	-	-	2.00		INSTALL FACING NORTH ON WB SIGNAL POLE	
B	R9-3bP(R)	USE WASHINGTON	HCL E 104TH AVE	101+83.13	LT	12 X 18	WHITE	-	-	-	2.00		INSTALL FACING NORTH ON WB SIGNAL POLE	
C	R3-5(L)	MANDATORY LEFT TURN	HCL E 104TH AVE	101+84.50	LT	30 X 36	WHITE	-	-	-	8.00		INSTALL FACING EAST ON WB MAST ARM	
E	R9-3	NO PEDESTRIAN CROSSING SYMBOL	HCL E 104TH AVE	101+87.26	RT	18 X 18	WHITE	-	-	-	2.00		INSTALL FACING NORTH ON EB SIGNAL POLE	
C	R3-5(L)	MANDATORY LEFT TURN	HCL E 104TH AVE	102+41.37	LT	30 X 36	WHITE	-	-	-	8.00		INSTALL FACING SOUTH ON NB MAST ARM	
D	R3-5(R)	MANDATORY RIGHT TURN	HCL E 104TH AVE	102+52.84	LT	30 X 36	WHITE	-	-	-	8.00		INSTALL FACING SOUTH ON NB MAST ARM	
A	SPECIAL	E 104TH AVE	HCL E 104TH AVE	102+60.00	LT	20 X 72	WHITE	-	-	-	-		INSTALL FACING SOUTH ON NB MAST ARM	
A	R9-3	NO PEDESTRIAN CROSSING SYMBOL	HCL E 104TH AVE	102+64.21	LT	18 X 18	WHITE	-	-	-	2.00		INSTALL FACING NORTH ON NB SIGNAL POST	
B	R9-3bP(R)	USE WASHINGTON	HCL E 104TH AVE	102+64.21	LT	12 X 18	WHITE	-	-	-	2.00		INSTALL FACING NORTH ON NB SIGNAL POST	
E	R9-3	NO PEDESTRIAN CROSSING SYMBOL	HCL E 104TH AVE	102+75.27	RT	18 X 18	WHITE	-	-	-	2.00		INSTALL FACING SOUTH ON NB PED POST	
SUB TOTAL:								1	3	33	57			

NOTE: ALL NUMBERED SIGNS SEE SIGNING & STRIPING PLANS. ALL LETTERED SIGNS SEE TRAFFIC SIGNAL PLANS.

**TABULATION OF PAVEMENT MARKINGS**

LOCATION	STATION TO STATION	PAVEMENT TYPE	SIDE	DIRECTION	EPOXY PAVEMENT MARKINGS				PREFORMED THERMOPLASTIC PAVEMENT MARKINGS			
					627-00005				627-30405		627-30410	
					DOTTED	CHANNELIZING	CENTERLINE		# OF TURN ARROWS	# OF LEFT-THRU ARROWS	STOP BAR	X-WALK BARS (2' X 8")
					WHITE SOLID	WHITE SOLID	DOUBLE YELLOW SOLID	YELLOW CROSSHATCH MARKINGS				
8 INCH	8 INCH	4 INCH	8 INCH	EACH	EACH	2' WIDE	EACH					
HCL E 104TH AVE	100+00.00 TO 107+60.00	Asphalt	LT	WB	456	256			3		118	
HCL E 104TH AVE	100+00.00 TO 107+60.00	Asphalt	RT	EB							77	
HCL E 104TH AVE	102+00.00 TO 102+60.00	Asphalt	RT	NB		54	58		3	1	49	9
HCL E 104TH AVE	105+86.00 TO 106+38.00	Asphalt	RT	NB				150	1		25	
				TOTAL (LF)	456	309	58	150				144
		SF		TOTAL (SF)	304.00	206.28	38.60	100.19	108.50	25.84	538	
		GAL		TOTAL (GAL)	3.58	2.43	0.45	1.18				
				TOTAL (SF)	650				135		682	
				TOTAL (GAL)	7.7 (SEE NOTE BELOW)							

NOTE: EPOXY PAVEMENT MARKINGS PROJECT QUANTITIES = 8 GAL.



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Print Date: 11/11/25	1873 S. Bellaire Street Suite 1101 Denver, CO 80222 P: 303-798-9445 www.ws beng.com	Sheet Revisions Date:      Comments      Init.			TRAFFIC ENGINEERING DIVISION 12450 WASHINGTON ST. THORNTON CO. 80241	As Constructed	104TH AVENUE AND WASHINGTON PLAZA SIGNING & STRIPING PLAN TABULATIONS		Project No. SHO M286-051
File Name: 23-03753_25-27_SIGNING & STRIPING PLANS.DWG		No Revisions:	Designer: WJKjr	Structure Numbers		24697			
					Revised:	Detailer: CRB			
					Void:	Sheet Subset: SIGN & STRP	Subset Sheets: 03 of 03	Sheet Number 33	

**CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES:**

ALL TRAFFIC DEVICES, REFLECTORIZED DRUMS, SIGNS, PAVEMENT MARKINGS, AND CHANNELIZATION DEVICES SHALL CONFORM TO THE LATEST CDOT, MUTCD, AND LOCAL AGENCY STANDARDS.

CONTRACTOR SHALL MAINTAIN MINIMUM 11' LANES.

CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS (HYDROBLASTING) THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCIDENTAL TO PAVEMENT MARKINGS (PAINT).

FLASHING BEACON (SOLAR) SHALL BE INSTALLED ON "ROAD WORK AHEAD" ADVANCE WARNING SIGNS ON 104TH AVENUE.

PORTABLE MESSAGE SIGN PANELS SHALL BE USED AS DIRECTED BY THE ENGINEER.

TWENTY FOUR (24) HOUR EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED FOR ALL STREETS AND PROPERTIES WITHIN THE PROJECT LIMITS.

SAFELY COVER TRENCHES AND RESTORE TRAFFIC, PEDESTRIAN, AND BICYCLE ACCESS TO NORMAL CONDITIONS WHEN NOT WORKING IN THE AREA.

EXISTING GROUND MOUNTED SIGNS SHALL BE MAINTAINED/RELOCATED AS NECESSARY. ALL CONFLICTING EXISTING SIGNS SHALL BE MASKED OR REMOVED IN ACCORDANCE TO THE LATEST CDOT, MUTCD, AND LOCAL AGENCY STANDARDS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND EXPENSE FOR PROVIDING TEMPORARY DITCHES AND PIPES TO ENSURE ADEQUATE DRAINAGE AND SAFE DRIVING CONDITIONS AT ALL TIMES. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF RELATED WORK.

ALL SIGN LOCATIONS MAY BE ADJUSTED WITHIN REASONABLE TOLERANCES TO ACCOMMODATE FIELD CONDITIONS.

DRUMS TO BE EQUIPPED WITH STEADY BURN LIGHTS ON ALL TAPER SECTIONS.

FLAGGER SYMBOLS SIGNS SHALL BE INSTALLED AND FLAGGERS SHALL BE UTILIZED AS DEEMED NECESSARY AND AS APPROVED BY THE ENGINEER.

MINIMUM SLOPE ADJACENT TO TRAVELED WAY SHALL BE 3:1.

THE CONTRACTOR SHALL PROVIDE ADDITIONAL PAVEMENT MARKINGS TO REFRESH/RESTRIPE THE TEMPORARY PAVEMENT MARKINGS VISIBLE DURING ALL WEATHER CONDITIONS AS DIRECTED BY THE ENGINEER.

**SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES  
(FOR INFORMATION ONLY)**

SIGNS					
SIGN CODE	LEGEND	DIMENSIONS	PANEL		
			A	B	C
			EACH		
G20-11	ROAD / WORK / MMM YY-MM YY / FOR INFORMATION / XXX-XXX-XXXX	48 X 48		2	
W20-1	ROAD / WORK / AHEAD	48 X 48		2	
R52-6a	BEGIN / FINES / DOUBLE / IN WORK / ZONE	36 X 48		2	
W20-7	FLAGGER (SYMBOL)	48 X 48		2	
W3-4	BE / PREPARED / TO STOP	48 X 48		2	
W20-5R	RIGHT LANE / CLOSED / (DIST.)	48 X 48		2	
W4-2R	RIGHT LANE ENDS (SYMBOL)	48 X 48		2	
W20-5L	LEFT LANE / CLOSED / (DIST.)	48 X 48		3	
W4-2L	LEFT LANE ENDS (SYMBOL)	48 X 48		3	
R52-6b	END / FINES / DOUBLE / IN WORK / ZONE	36 X 48		2	
G20-10	XYZ / CONSTRUCTION / THANKS YOU / XXX-XXX-XXXX	48 X 48		2	
R3-2	NO LEFT TURN (SYMBOL)	36 X 36	1		
R3-1	NO RIGHT TURN (SYMBOL)	36 X 36	2		
<b>TOTAL:</b>			<b>3</b>	<b>24</b>	<b>0</b>

**TABULATION OF TRAFFIC CONTROL PAY ITEMS**

ITEM		UNIT	QUANTITY
630-00000	FLAGGING	HR	480
630-00007	TRAFFIC CONTROL INSPECTION	DAY	60
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	75
630-80341	CONSTRUCTION TRAFFIC SIGN PANEL (SIZE A)	EACH	3
630-80342	CONSTRUCTION TRAFFIC SIGN PANEL (SIZE B)	EACH	24
630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EACH	2
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	2
630-80360	DRUM CHANNELIZING DEVICE (WITH LIGHTS)(FLASHING)	EACH	15
630-80380	TRAFFIC CONE	EACH	90
607-11580	FENCE (TEMPORARY)	LF	205



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