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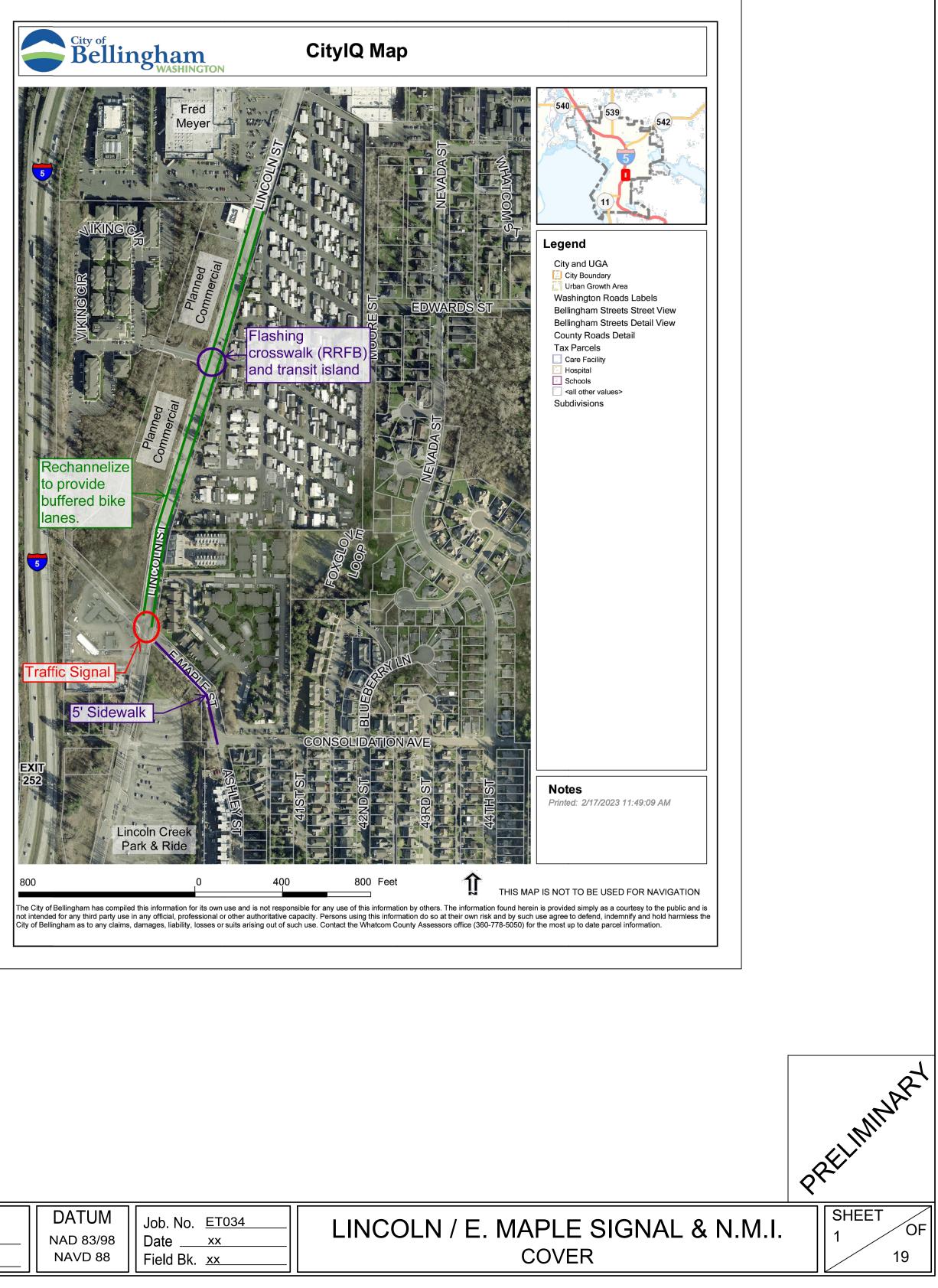
60% REVIEW

Date No Revision By INSPECTOR IBD ASSISTANT DIRECTOR	4 3 2 1 Date No	Revision By	PROJECT ENGINEER JB DESIGNED/DRAWN JB/JAM INSPECTOR TBD	DIRECTOR PUBLIC <u>WORKS</u> CITY ENGINEER ASSISTANT DIRE <u>CTOR</u>
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CONTACT PERSON:

PROJECT ENGINEER AT 778-7900

ET034 LINCOLN ST./E MAPLE ST. SIGNAL & NON-MOTORIZED IMPROVEMENTS CITY OF BELLINGHAM, WASHINGTON

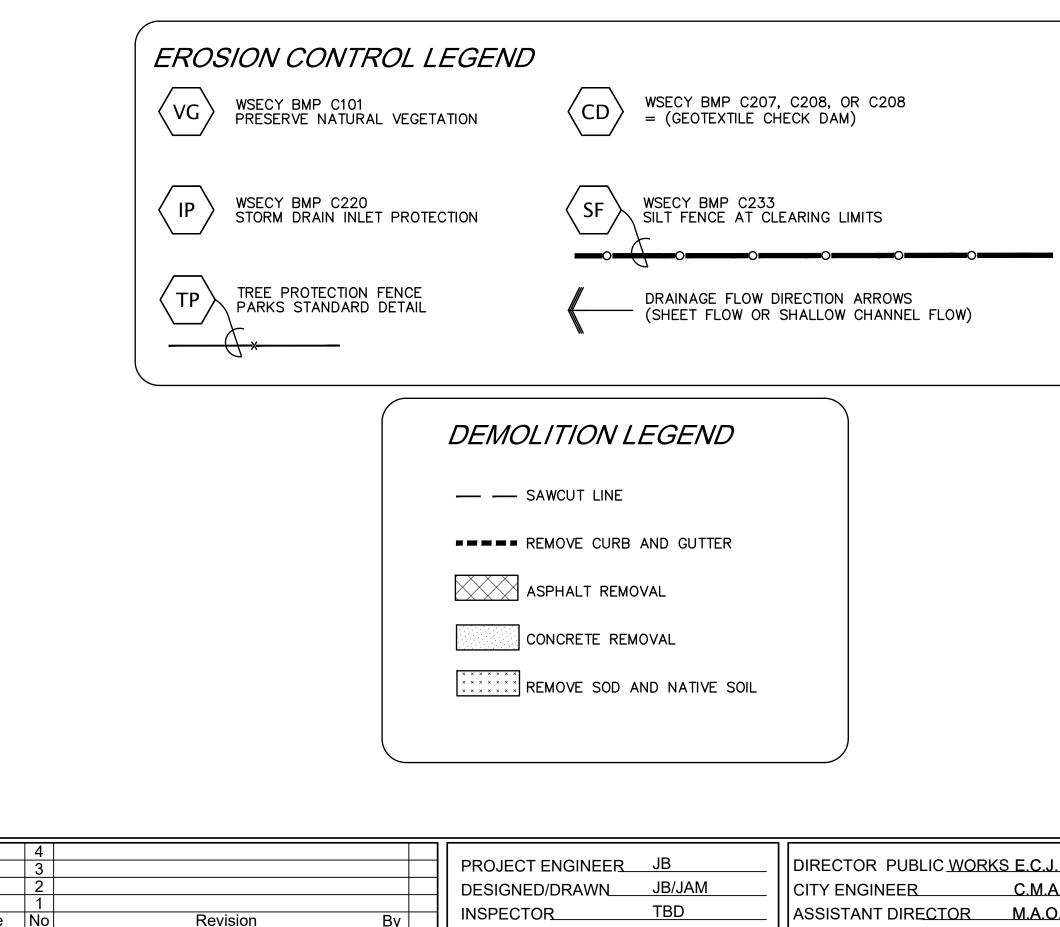


C.J. CITY OF BELLINGHAM, WASHINGTON SCALE DATUM Job. No. ET034 M.A.S. PUBLIC WORKS DEPARTMENT Horiz. 1"= N/A NAD 83/98 A.O. ENGINEERING DIVISION Vert. 1"= N/A NAVD 88 Field Bk. <u>xx</u> L
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	EXISTING	PROPOSED		EXISTING
RIGHT OF WAY LINE -			UNDERGROUND POWER	P
PROPERTY LINE -			UTILITY POLE	-0-
CENTER LINE -			SIDEWALK	
WATER MAIN -	W		CURB & GUTTER	
WATER SERVICE -	WWWWW	WWW	EDGE OF PAVEMENT	
WATER VALVE	8	8	EDGE OF GRAVEL/DIRT	
FIRE HYDRANT	-0-		WHEELCHAIR RAMP	
SANITARY SEWER MAIN -	S	S	BUILDING LINE	
SANITARY SEWER SERVICE -			TREE LINE	uuu
STORM SEWER MAIN -	D	••••••••••••••••••••••••••••••••••••••	FENCE LINE	X
STORM SEWER SERVICE -			WALL LINE (ROCK)	
SEWER MANHOLE	\bigcirc	\bullet	WALL LINE	
STORM MANHOLE			SHRUBS	
CATCH BASIN				
CULVERT =	=======================================		TREES	
DRAINAGE DITCH -	· · · · · · · ·			
CREEK -	···		RIP RAP	
GAS MAIN -	G		STREET LIGHT JUNCTION	
GAS SERVICE -	GGG		TRAFFIC JUNCTION BOX	
UNDERGROUND TELEPHONE -	TT		LUMINAIRE (STREET LIGHT	
FIBER OPTIC LINE -	F0		SIGNAL POLE	
MONUMENT	•		PEDESTRIAN SIGNAL	$\overline{\nabla}$

SANITARY SEWER MANHOLE (0+50) INDICATES STATION FROM LAST MANHOLE

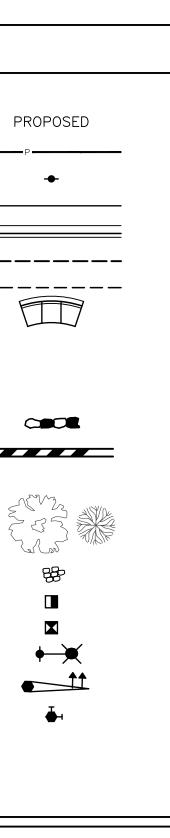


By |

CONTACT PERSON:

Date No

PROJECT ENGINEER AT 778-7900



GENERAL NOTES

ALL WORK SHALL CONFORM TO THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" CURRENT EDITION (WSDOT) AND THE "CITY OF BELLINGHAM DEVELOPMENT GUIDELINES AND IMPROVEMENT STANDARDS" UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY SPECIFICATIONS OR STANDARDS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL. ALL REFERENCES TO "SPECIFICATION SECTIONS" REFER TO THE "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" UNLESS OTHERWISE NOTED.

THE BEDDING FOR PVC PIPE SHALL BE PEA GRAVEL, ACCORDING TO CITY OF BELLINGHAM STANDARD PLAN No. SS-750.

ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL FOR TRENCH BACKFILL AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (MODIFIED PROCTOR).

PLUG ALL CULVERTS, SEWERS, AND CONDUITS PRIOR TO ABANDONMENT. AS PER STANDARD SPECIFICATIONS SECTION 7-08.3(4)

ALL LAWN AND VEGETATED AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY CONSTRUCTION EQUIPMENT, VEHICLES OR PERSONNEL SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTORS EXPENSE.

THIS PROJECT MAY REQUIRE VARIOUS PERMITS AS OUTLINED IN THE PROJECT SPECIFICATION'S GENERAL PROVISIONS. ALL WORK SHALL BE PERFORMED IN A MANNER WHICH ENSURES CONFORMANCE WITH ANY PERMIT REQUIREMENTS.

THE CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF BELLINGHAM ENGINEERING DIVISION PRIOR TO BEGINNING CONSTRUCTION.

UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE ONE-CALL NUMBER FOR UNDERGROUND UTILITIES IS: 1-800-424-5555.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING.

THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO THE PROJECT.

PUBLIC RIGHTS-OF-WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEPT AND REMOVED WITH A VACUUM SWEEPER.

PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO, OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.

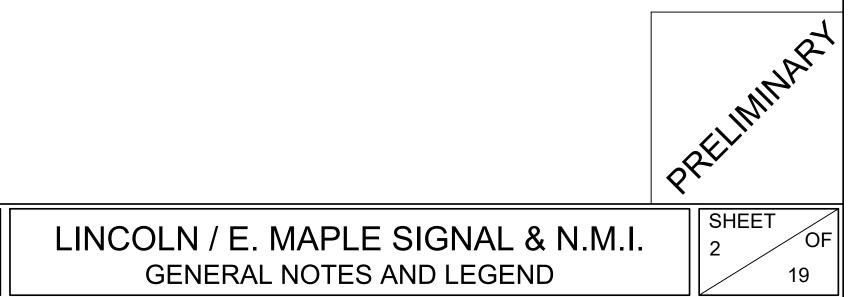
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING, MAINTAINING, & REMOVING EROSION CONTROL MEASURES (SILT FENCE, ROCK CHECK DAMS, SILT PONDS, CATCH BASIN FILTERS, ETC ...) THROUGHOUT THE

DURATION OF THE PROJECT. ALL EROSION CONTROL WORK IS CONSIDERED INCIDENTAL TO THE ITEMS OF WORK IN THE CONTRACT FOR THIS PROJECT. REFER TO THE 'STORM WATER POLLUTION PREVENTION PLAN' SHEETS AND BID ITEMS NOTED IN THE CONTRACT PORTION OF THE PROJECT SPECIFICATIONS FOR SPECIFIC EROSION CONTROL NOTES. STORM NOTES BEDDING AND BACKFILL FOR PVC STORM MAIN PIPE SHALL CONFORM TO CITY OF BELLINGHAM STANDARD PLAN No. DR-538. STORM MAIN CLEANOUTS SHALL CONFORM TO CITY OF BELLINGHAM STANDARD NO. SS-720 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES (SILT FENCE, ROCK CHECK DAMS, SILT PONDS, ETC..., AS DIRECTED BY THE ENGINEER) THROUGHOUT THE DURATION OF THE PROJECT. DURING CONSTRUCTION, CATCH BASIN INSERTS OR ACCEPTABLE ALTERNATIVES MUST BE PLACED UNDER ALL EXISTING AND NEWLY CONSTRUCTED CATCH BASIN GRATES WITHIN THE PROJECT SITE. ALL CATCH BASINS WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT AT THE COMPLETION OF THE PROJECT AND ANY MATERIAL REMOVED SHALL BE PROPERLY DISPOSED OF. DURING ANY DITCH, CREEK & DRAINAGE WORK, WATER SHALL BE DIVERTED AROUND THE PROJECT WITH A CITY ENGINEER APPROVED METHOD. ANY MISCELLANEOUS DRAINAGE FOUND WILL BE REQUIRED TO BE REMOVED OR CONNECTED TO THE NEW DRAINAGE SYSTEM UNDER THE DIRECTION OF THE ENGINEER. STORM WATER POLLUTION PREVENTION PLAN AND STORM WATER PERMIT APPLICATION (SWPPP) SHALL BE SUBMITTED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT DETAILS ON CONSTRUCTION TIMING, HAUL ROUTES, CONSTRUCTION ENTRANCES AND GROUND STABILIZATION. THE SWPPP AND PERMIT SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO COMMENCEMENT OF WORK.

S. CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE Horiz. 1"= N/A Vert. 1"= N/A	DATUM NAD 83/98 NAVD 88	Job. No. <u>ET034</u> Date <u>xx</u> Field Bk. <u>xx</u>	L
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SURVEY NOTES

CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE IDENTIFIED, REFERENCED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER PRIOR TO DESTRUCTION.



OF

LINCOLN ST / E MAPLE ST TRAFFIC SIGNAL CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ET034

SURVEYOR'S NOTES:

1. HORIZONTAL DATUM: RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE

BASIS OF BEARINGS: CITY OF BELLINGHAM SURVEY WORKSHEET #5403 (SIDEWALK IMPROVEMENT PROGRAM ES-0504)

LINE HELD: N16°48'25"E 2624.58' (2624.67' MEAS.) BETWEEN FOUND BRASS DISK (COB 967) AT THE INTERSECTION OF LINCOLN ST. AND E. MAPLE ST., AND FOUND BRASS PIN (COB 3223) AT LINCOLN ST. P.I.

2. VERTICAL DATUM: NAVD88

METHOD: CLOSED LOOP DIFFERENTIAL LEVELING

PROJECT BENCHMARKS:

COB 5915	BRASS DISK BM	EL=162.34' (PT #916)
COB 967	BRASS DISK C/L INTERSECTION	EL=170.86' (PT #908)
COB 5916	BRASS DISK BM	EL=161.48'

- 3. DATE OF SURVEY: FEBRUARY 6-7, 13, 15-17, 23, & 28, AND MARCH 3, 2023
- 4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
- 5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
- 6. THIS SURVEY WAS ACCOMPLISHED USING A COMBINATION OF RELATIVE GNSS OBSERVATIONS WITH A BASE/ROVER RTK CONFIGURATION AND STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5'±.
- 8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
- 9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

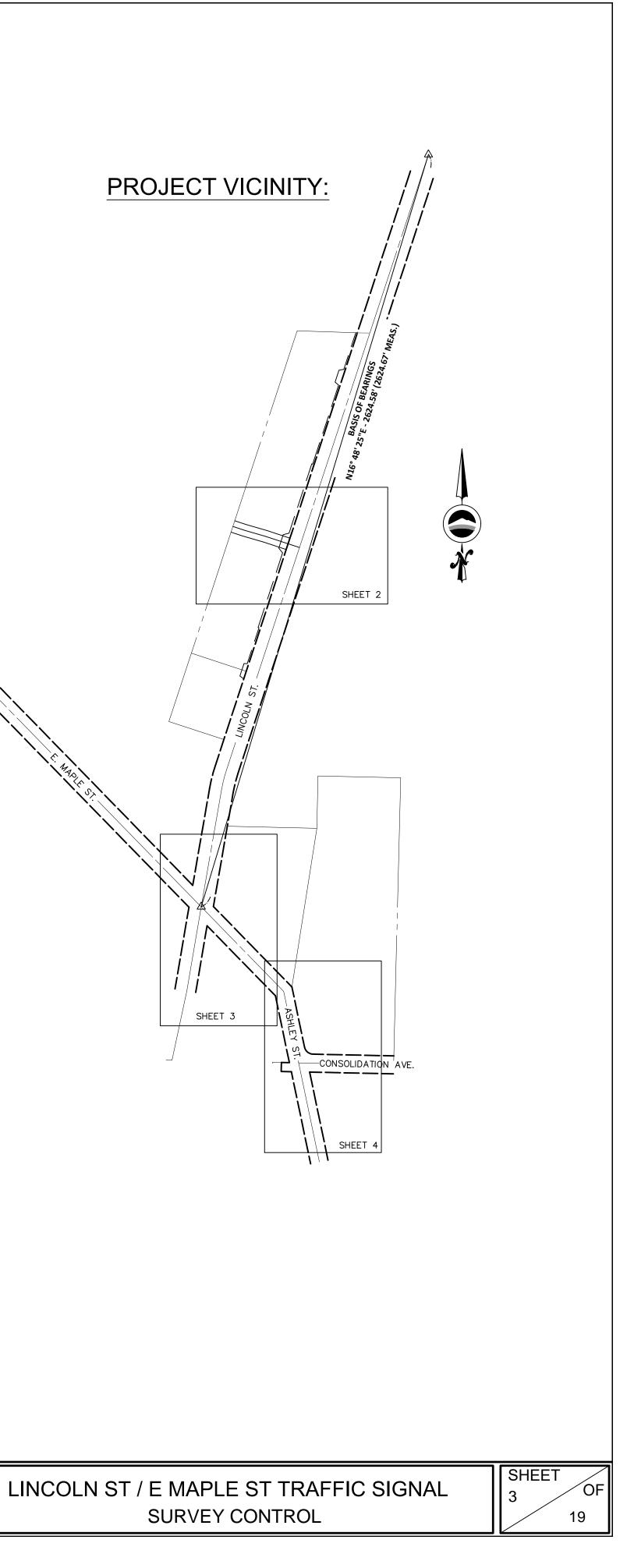


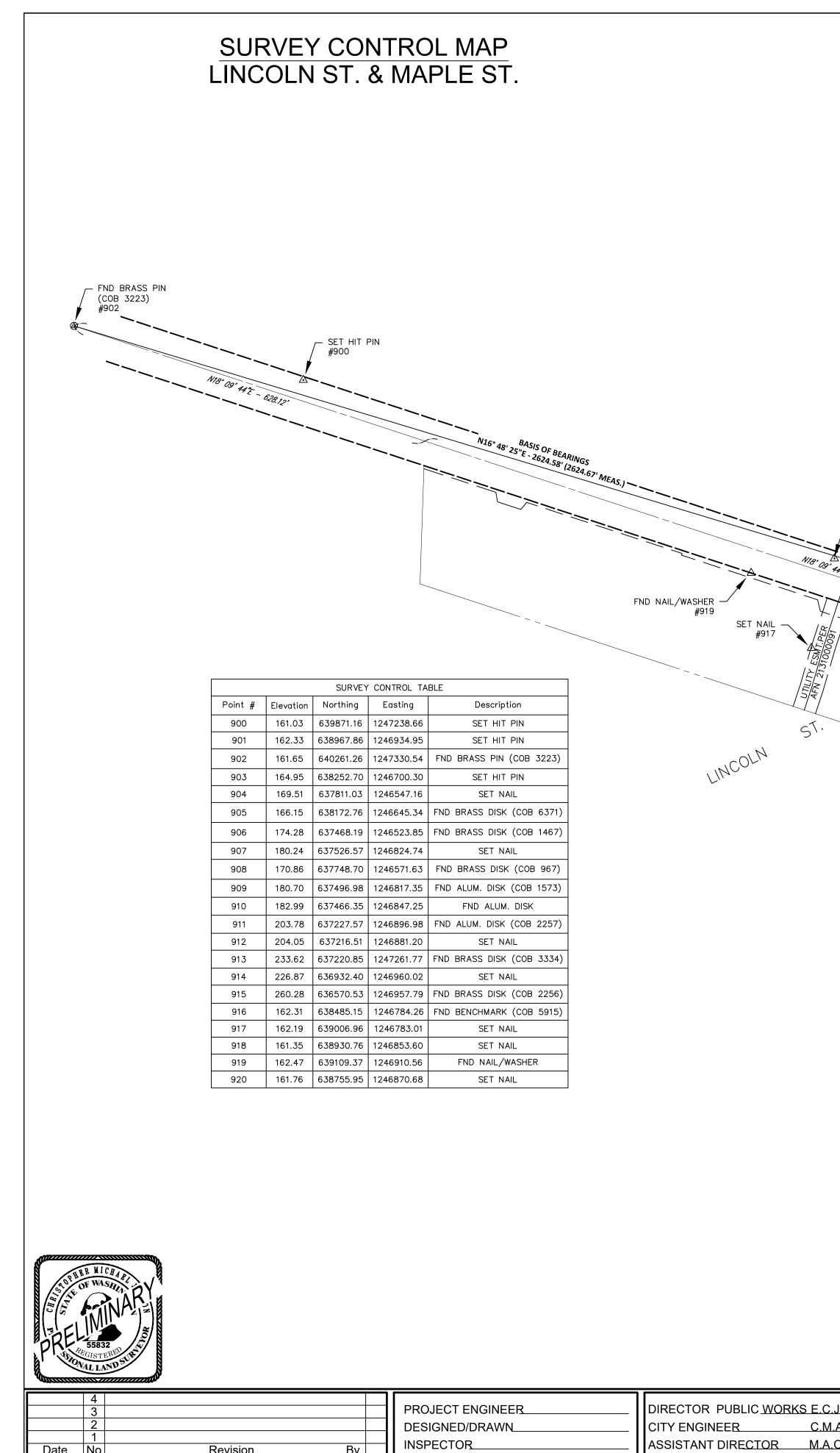
4 3 2	DIRECTOR PUBLIC <u>WORKS E.C.J.</u> CITY ENGINEER <u>C.M.A.S.</u>	CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT	SCALE Horiz1"= 250'	DATUM NAD 83/98	Job. No. <u>ET034</u> Date <u>03/17/2023</u>	<u>Г</u>
	ASSISTANT DIRECTOR M.A.O.	ENGINEERING DIVISION	Vert. <u>N/A</u>		Field Bk. <u>1068-1</u>	

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ET034 TOPOGRAPHIC EXISTING CONDITIONS SURVEY

LEGEND:

- △ SURVEY CONTROL
- FOUND CENTERLINE MON.





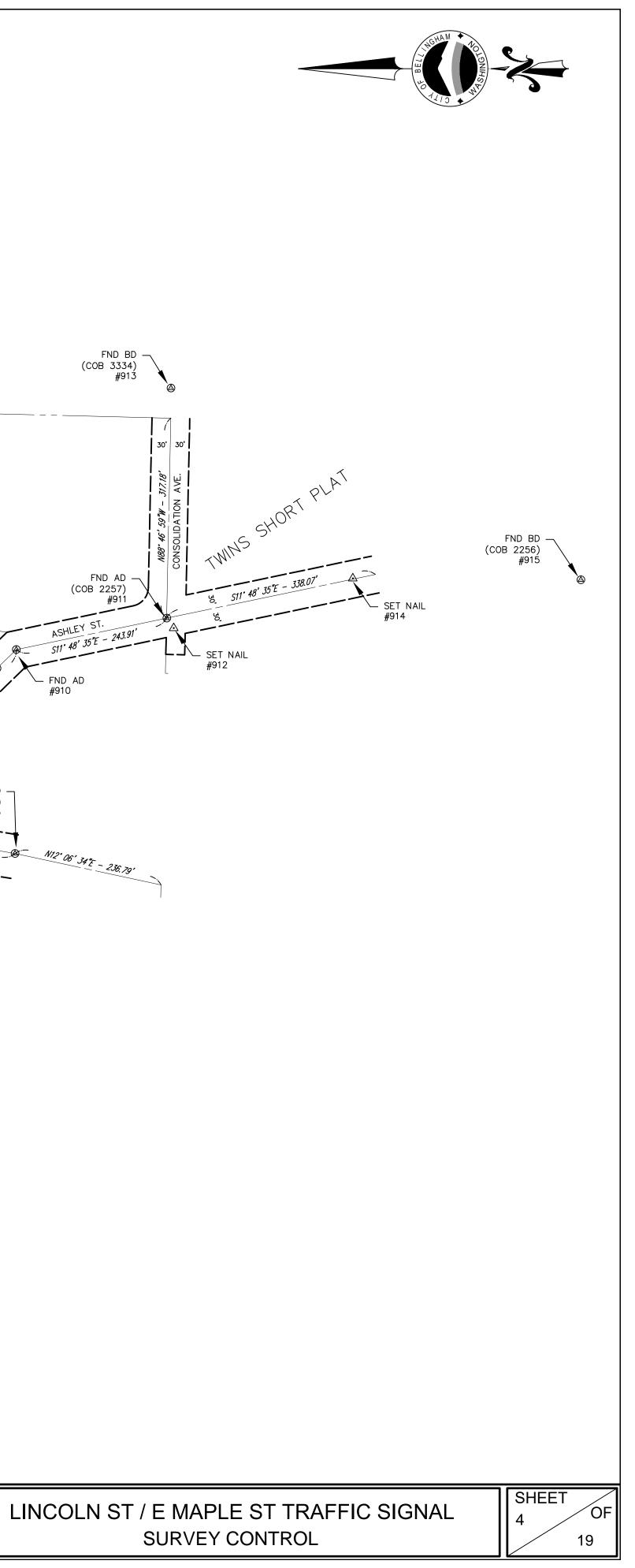
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SET NAIL #918		1	
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	·		So. FND BD (COB 1467) #906
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CITY OF BELLINGHAM, WASHINGTON SCALE M.A.S. PUBLIC WORKS DEPARTMENT A.O. NAD 83/98 NAVD 88 Scale	IAD 83/98 Date
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TEMPORARY EROSION/SEDIMENTATION CONTROL

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE TESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.

THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC..) AS NEEDED FOR UNEXPECTED STORM EVENTS.

THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).

WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.

SLURRY AND PROCESS WATER RESULTING FROM SAWCUTTING AND ASPHALT COLD-PLANING SHALL BE COLLECTED AND DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY PER D.O.E. BMP C152: SAWCUTTING AND SURFACE POLLUTION PREVENTION. PROCESS WATER THAT IS GENERATED DURING HYDRO-DEMOLITION, SURFACE ROUGHENING, OR SIMILAR OPERATIONS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE AND SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUND WATER OR SURFACE WATER QUALITY STANDARDS

EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAYBE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY INSPECTOR.

PRESERVE VEGETATION/MARK CLEARING LIMITS

1. PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRADING) CLEARLY MARK ALL CLEARING LIMITS AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA AS SHOWN ON THE DRAWINGS

2. SILT FENCE, GEOTEXTILE ENCASED BARRIERS, CONSTRUCTION FENCE, ORANGE PLASTIC FENCE, OR OTHER APPROVED MEASURES MAY BE USED TO MARK THE CLEARING LIMITS IN ADDITION TO THE CONSTRUCTION FENCING SHOWN ON THE PLAN.

3. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.

SUGGESTED BMPS/BMPS TO BE USED: BMP C103: HIGH VISIBILITY PLASTIC OR METAL FENCE BMP C233: SILT FENCE

ESTABLISH CONSTRUCTION ACCESS

IF SEDIMENT IS TRACKED OFF SITE, PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY DURING WET WEATHER. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

SUGGESTED BMPS/BMPS TO BE USED: BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT

CONTROL FLOW RATES

PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM FROSION DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.

SUGGESTED BMPS/BMPS TO BE USED: BMP C207: CHECK DAMS BMP C235: WATTLES

INSTALL SEDIMENT CONTROLS

1. THE DUFF LAYER, NATIVE SOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE.

2. SEDIMENT CONTROL BMPS SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPS SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.

3. PRIOR TO LEAVING THE CONSTRUCTION SITE, STORMWATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH AN APPROPRIATE SEDIMENT REMOVAL BMP. RUNOFF FROM FULL STABILIZED AREAS MAY BE DISCHARGED WITHOUT A SEDIMENT REMOVAL BMP, BUT MUST MEET PERFORMANCE STANDARDS OF CONTROL FLOWRATES.

SUGGESTED BMPS/BMPS TO BE USED: BMP C231: BRUSH BARRIER

BMP C232: GRAVEL FILTER BERMS BMP C233: SILT FENCE BMP C234: VEGETATED STRIP

BMP C235: STRAW WATTLES BMP C240: SEDIMENT TRAP

STABILIZE SOILS

1. EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPS THAT PROTECT THE SOIL FROM EROSIVE FORCES OF RAINDROPS, FLOWING WATER, AND WIND.

2. TO PREVENT EROSION, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW: DURING THE WET SEASON (OCTOBER 1-APRIL 30): 2 DAYS

DURING THE DRY SEASON (MAY 1-SEPT. 30): 7 DAYS

THIS STABILIZATION REQUIREMENT APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THESE TIMES MAY BE ADJUSTED BY THE LOCAL PERMITTING AUTHORITY IF IT CAN BE SHOWN THAT SITE CONDITIONS OR THE AVERAGE TIME BETWEEN STORM EVENTS JUSTIFIES A DIFFERENT STANDARD 3. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY

OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST 4. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS. 5. APPLICABLE BMPS INCLUDE, BUT ARE NOT LIMITED TO: TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED AND DUST CONTROL. SELECT SOIL STABILIZATION MEASURES SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND THE POTENTIAL WATER QUALITY IMPACTS.

6. REMOVE ALL TESC MEASURES AS SOON AS PRACTICAL AFTER ESTABLISHMENT OF UNIFORM GRASS GROWTH OR INSTALLATION OF OTHER PERMANENT STABILIZATION MEASURES. REPAIR ANY DAMAGE TO STABILIZED

SURFACES AFTER REMOVAL OF TESC MEASURES. 7.ALL DISTURBED SOILS WITHIN THE PROJECT LIMITS SHALL BE AMENDED AS SHOWN ON THE LANDSCAPE PLAN WHERE SHOWN AND PER ECOLOGY BMP

SUGGESTED BMPS/BMPS TO BE USED: BMP C121: MULCHING BMP C122: NETS AND BLANKETS BMP C123: PLASTIC COVERING BMP C125: TOP SOILING BMP C130: SURFACE ROUGHENING BMP C140: DUST CONTROL

PROTECT SLOPES

1. DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, REDUCING CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND DIVERSIONS REDUCING SLOPE STEEPNESS, AND ROUGHENING SLOPE SURFACES (E.G., TRACK WALKING).

2. OFF-SITE STORMWATER RUNOFF OR GROUNDWATER SHALL BE DIVERTED AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PIPES, AND OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE.

SUGGESTED BMPS/BMPS TO BE USED: BMP C121: MULCHING BMP C122: NETS AND BLANKETS BMP C123: PLASTIC COVERING BMP C125: TOP SOILING BMP C130: SURFACE ROUGHING

PROTECT DRAIN INLETS

ALL STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION AND ALL INLETS WITHIN 200' DOWNSTREAM OF THE PROJECT SITE SHALL BE PROTECTED WITH CATCH BASIN FILTERS SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. CATCH BASIN FILTERS IN THE ROADWAY WILL BE OIL/SEDIMENT FILTERS AND CATCH BASIN FILTERS OUTSIDE OF THE ROADWAY WILL BE SEDIMENT FILTERS.

SUGGESTED BMPS/BMPS TO BE USED: BMP C220: STORMDRAIN INLET PROTECTION

STABILIZE CHANNELS AND OUTLETS

1.ALL CONVEYANCE CHANNELS WITH THE PROJECT LIMITS SHALL BE STABILIZED TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT TRANSPORT.

2.PROVIDE STABILIZATION INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAMBANKS, SLOPES, AND DOWNSTREAM REACHES AT OUTLETS OF ALL CONVEYANCE SYSTEMS.

SUGGESTED BMPS/BMPS TO BE USED: **BMP C122: NETS AND BLANKETS** BMP C202: CHANNEL LINING **BMP C209: OUTLET PROTECTION**

CONTROL POLLUTANTS

1. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. 2. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND OTHER MATERIALS THAT HAVE THE POTENTIAL TO POSE A THREAT TO HUMAN HEALTH OR THE ENVIRONMENT. ON-SITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.

3. MAINTENANCE, FUELING, AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES

1				
		1		
		3	PROJECT ENGINEER JB	DIRECTOR PUBLIC WORKS E.C.J.
		2	DESIGNED/DRAWN JB/JAM	CITY ENGINEER C.M.A.
	Date N	o Revision By	INSPECTOR IBD	ASSISTANT DIRECTOR M.A.O.

CONTACT PERSON:

PROJECT ENGINEER AT 778-7900

ANY SPILL INCIDENT.

SHALL BE CONDUCTED USING SPILL PREVENTION AND CONTROL MEASURES.

INCLUDE, BUT ARE NOT LIMITED TO: BULK CEMENT, CEMENT KILN DUST, FLY

GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE

CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING

BMPS SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF

PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.

DISCHARGE TO A SEDIMENT TRAP OF SEDIMENT POND.

3) OTHER DE-WATERING DISPOSAL OPTIONS MAY INCLUDE:

THROUGH STORMWATER SEDIMENT PONDS.

SUGGESTED BMPS/BMPS TO BE USED:

BMP C151: CONCRETE HANDLING

CONTROL DEWATERING

a) INFILTRATION.

DE-WATERING.

MAINTAIN BMPS

PERMANENTLY STABILIZED.

MANAGE THE PROJECT

SUGGESTED BMPS/BMPS TO BE USED:

BMP C150: MATERIALS ON HAND

SEASONAL WORK LIMITATIONS

SEDIMENT.

TREATMENT TECHNOLOGIES.

THERE IS NO OTHER OPTION.

SEPARATELY FROM STORMWATER.

STORMWATER RUNOFF BY pH MODIFYING SOURCES. THESE SOURCES

ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS

PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.

BMP C152: SAWCUTTING AND SURFACING POLLUTION PROTECTION

BMP C153: MATERIALS DELIVERY, STORAGE, AND CONTAINMENT

PERMITTEES SHALL ADJUST THE pH OF STORMWATER IF NECESSARY TO

1) FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAVE

DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM PRIOR TO

SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE

2) CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND

SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT #8, PROVIDED

RECEIVING WATERS. CLEAN DE-WATERING WATER SHOULD NOT BE ROUTED

b) TRANSPORT OFF SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR

c) ECOLOGY APPROVED ON-SITE CHEMICAL TREATMENT OR OTHER SUITABLE

d) SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF

LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.

e) USE OF A SEDIMENTATION BAG (DIRTBAG OR APPROVED EQUAL) WITH

CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE

WHEN SEDIMENT ACCUMULATION IN SEDIMENTATION STRUCTURES, OTHER

THAN INLET PROTECTION DEVICES, HAS REACHED A POINT ONE-THIRD DEPTH

OF SEDIMENT STRUCTURE OR DEVICE, OR IF FLOW THROUGH THE DEVICE IS

REDUCED BY MORE THAN ONE-THIRD CAPACITY, THE CONTRACTOR SHALL

REMOVE AND REPLACE DISPOSABLE DEVICES OR CLEAN AND DISPOSE OF

TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL BE REMOVED

WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE

TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE

FROM OCTOBER 1 THROUGH APRIL 30, CLEARING, GRADING, AND OTHER SOIL

SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT

a) SITE CONDITIONS INCLUDING EXISTING VEGETATIVE COVERAGE, SLOPE,

b) LIMITATIONS ON ACTIVITIES AND THE EXTENT OF DISTURBED AREAS; AND

BASED ON THE INFORMATION PROVIDED AND LOCAL WEATHER CONDITIONS,

-IF, DURING THE COURSE OF ANY CONSTRUCTION ACTIVITY OR SOIL

THE LOCAL PERMITTING AUTHORITY MAY EXPAND OR RESTRICT THE

SEASONAL LIMITATION ON SITE DISTURBANCE. THE LOCAL PERMITTING

DISTURBANCE DURING THE SEASONAL LIMITATION PERIOD, SEDIMENT

VIOLATION OF THE SURFACE WATER QUALITY STANDARD

CONTROLS MEASURES SHOWN IN THE APPROVED PLAN ARE NOT

(A) PROTECT ALL BIORETENTION AND RAIN GARDEN BMPS FROM

-IF CLEARING AND GRADING LIMITS OR EROSION AND SEDIMENT

SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION

THE BIORETENTION AND/OR RAIN GARDEN BMPS. RESTORE THE BMPS TO

DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF

SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS,

THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT

AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN

AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO

AUTHORITY SHALL TAKE ENFORCEMENT ACTION–SUCH AS NOTICE OF

OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE

DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE

PREVENTED THROUGH A COMBINATION OF THE FOLLOWING:

c) PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

VIOLATION, ADMINISTRATIVE ORDER, PENALTY OR STOP-WORK

ORDER-UNDER THE FOLLOWING CIRCUMSTANCES:

LEAVES THE CONSTRUCTION SITE CAUSING A

SUGGESTED BMPS/BMPS TO BE USED:

PROTECT LOW IMPACT DEVELOPMENT BMPS.

OR

BMP C162: SCHEDULING

MAINTAINED.

SPECIFICATION.

SOIL TYPE AND PROXIMITY TO RECEIVING WATERS: AND

REMOVED OR STABILIZED ON SITE. DISTURBED SOILS SHALL BE

OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED

TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED

4) HIGHLY TURBID CONTAMINATED DEWATERING WATER FROM

THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF

WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO

T5.13: POST CONSTRUCTION SOIL QUALITY AND DEPTH, IN ALL OTHER AREAS.

(B) PREVENT COMPACTING BIORETENTION AND RAIN GARDEN BMPS BY EXCLUDING CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.

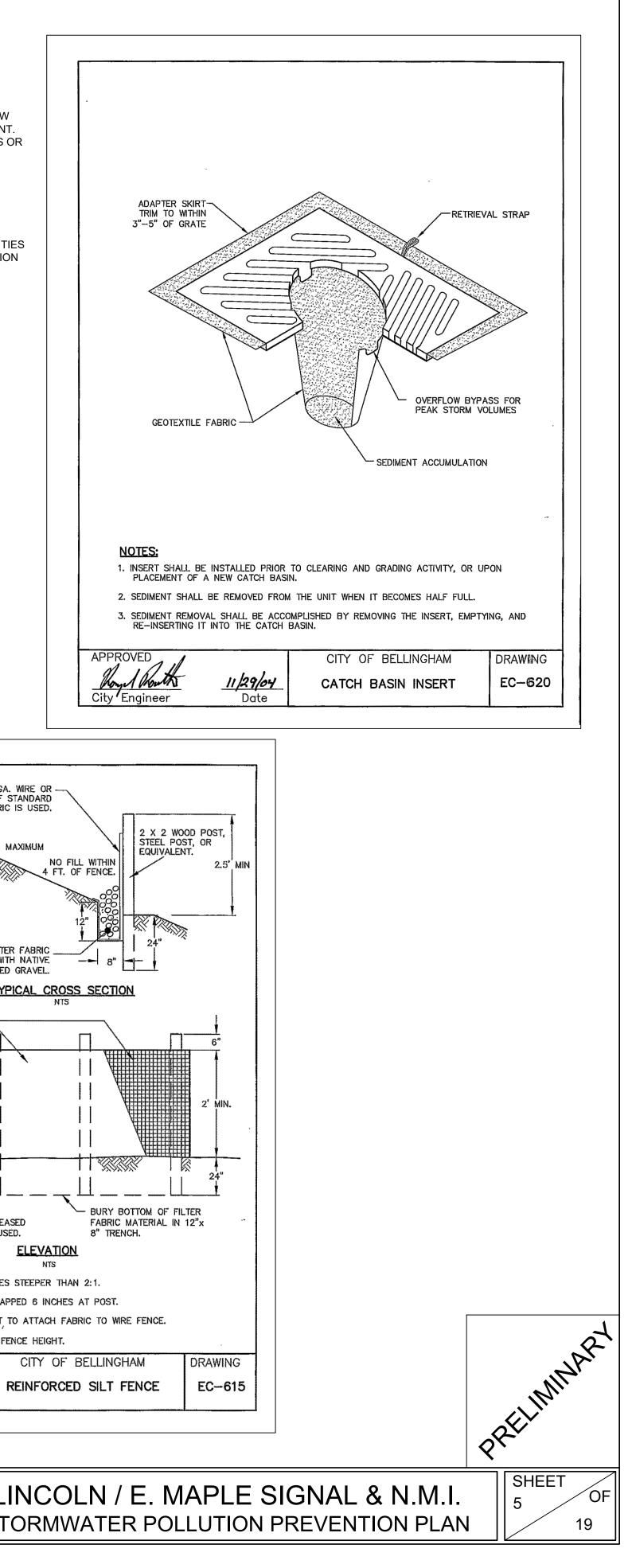
(C) CONTROL EROSION AND AVOID INTRODUCING SEDIMENT FROM SURROUNDING LAND USES ONTO PERMEABLE PAVEMENTS. DO NOT ALLOW MUDDY CONSTRUCTION EQUIPMENT ON THE BASE MATERIAL OR PAVEMENT. DO NOT ALLOW SEDIMENT-LADEN RUNOFF ONTO PERMEABLE PAVEMENTS OR BASE MATERIALS.

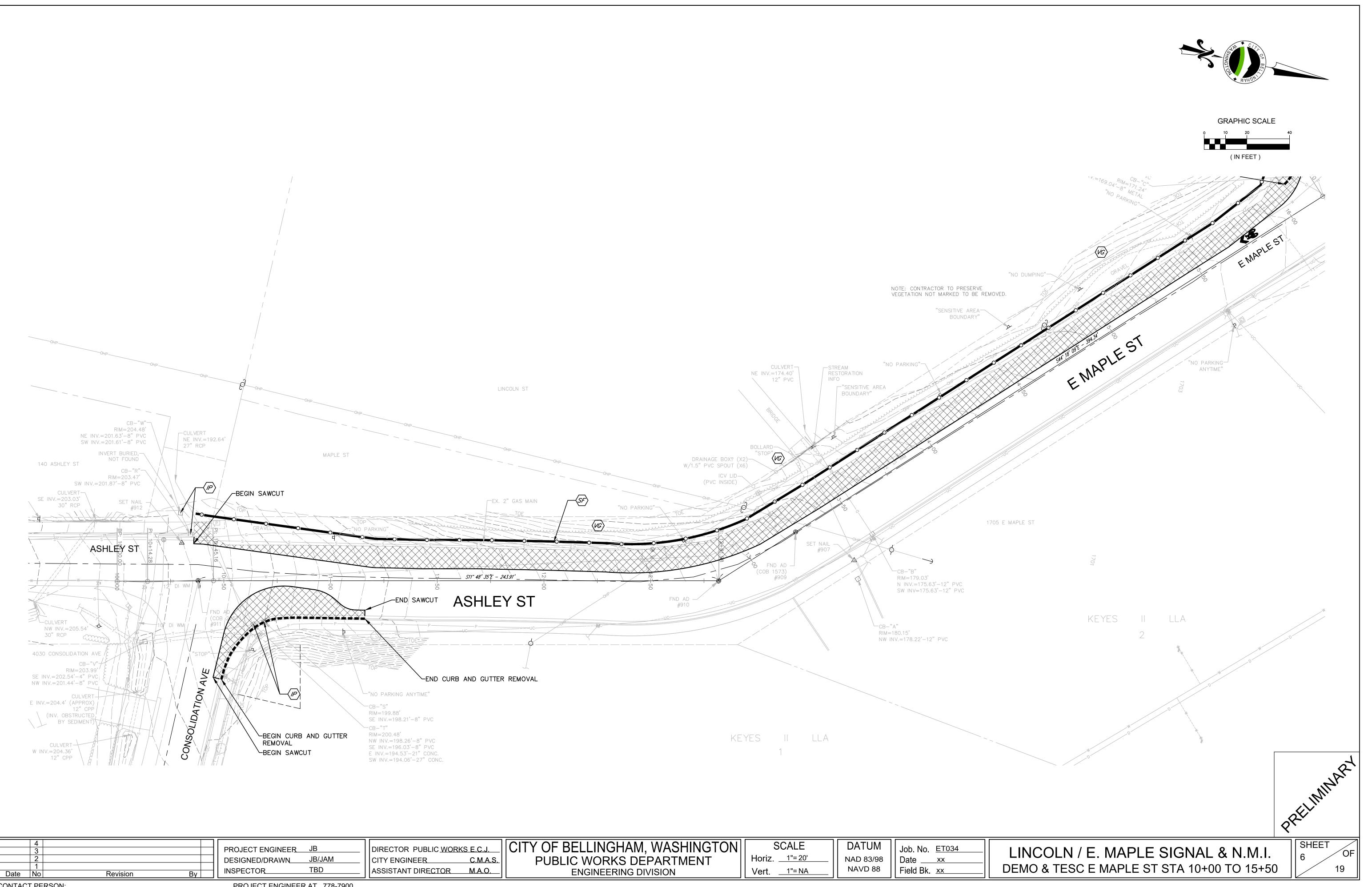
(D) PAVEMENT FOULED WITH SEDIMENTS OR NO LONGER PASSING AN INITIAL INFILTRATION TEST MUST BE CLEANED USING PROCEDURES IN ACCORDANCE WITH THE ECOLOGY MANUAL OR THE MANUFACTURER'S PROCEDURES.

(E) KEEP ALL HEAVY EQUIPMENT OFF EXISTING SOILS UNDER LID FACILITIES THAT HAVE BEEN EXCAVATED TO FINAL GRADE TO RETAIN THE INFILTRATION RATE OF THE SOILS.

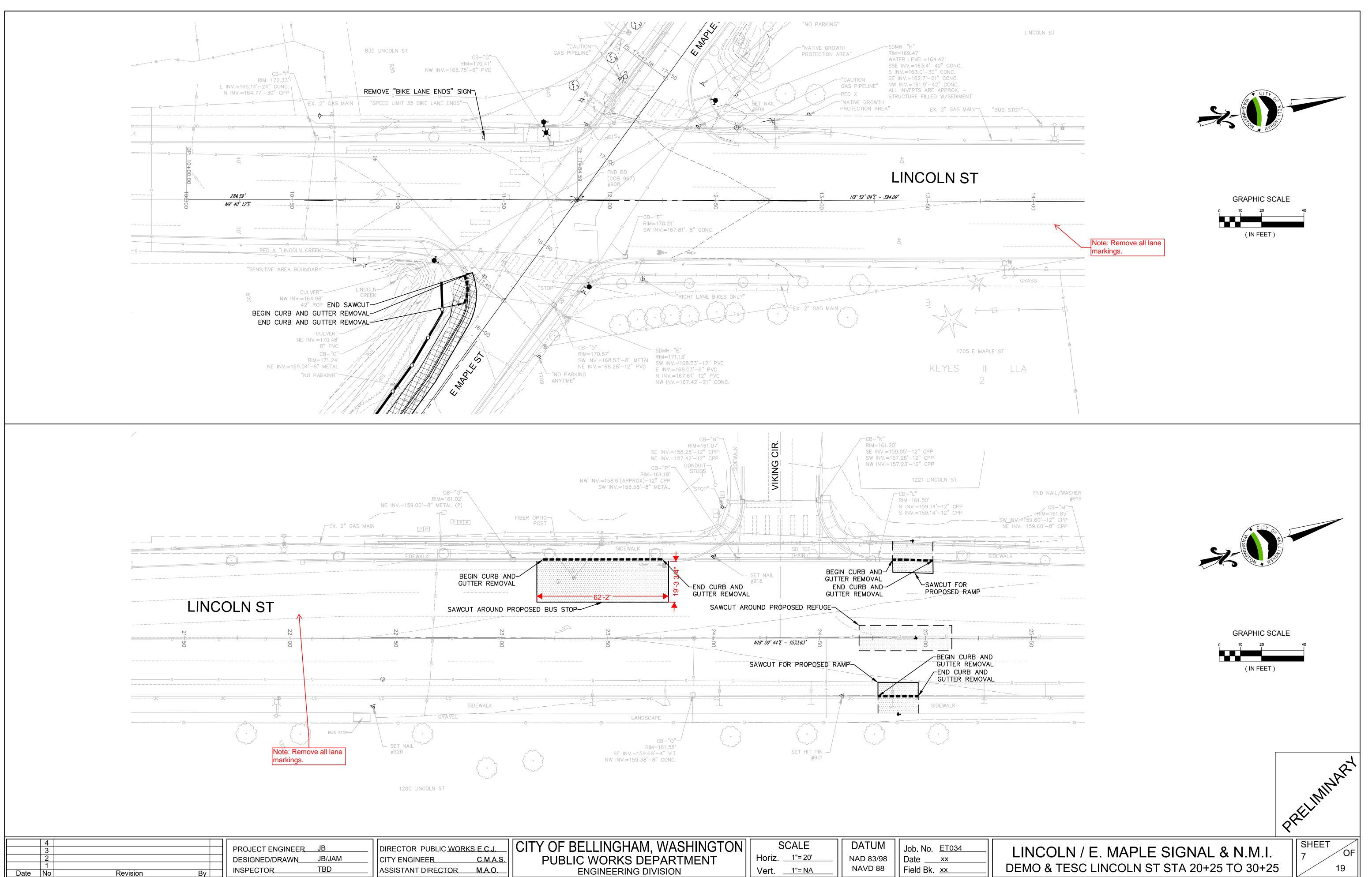
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	NEWLY GR DISTURBE		2	1 MA
	MATERIAL	BACKFILL	TRENCH	WITH
		FILTER FABR	NC `	$\overline{\lambda}$
SPLICED AT PO WIRE RINGS	OSTS. USE	STAPLES, ALENT TO		
	<u> </u>		L MUM	1
APPROVED	7			
City Enginee	v vr	<u>11/29/0</u>	1 <u>4</u>	RI
	SPLICED AT PO WIRE RINGS ATTACH NOTES: 1. FENCE SHA 2. JOINTS IN 1 3. USE STAPL 4. REMOVE SE APPROVED Nor Hout	MATERIAL SOIL WIRE MES JOINTS IN FILTER FABRIC S SPLICED AT POSTS. USE WIRE RINGS OR EQUIVA ATTACH FABRIC TO ATTACH FABRIC TO POST SI TO 8' NOTES: 1. FENCE SHALL NOT BE 2. JOINTS IN FILTER FAB 3. USE STAPLES, WIRE F 4. REMOVE SEDIMENT WH APPROVED May Month	MATERIAL. BACKFILL SOIL OR 3/4"-1 WIRE MESH FENCE WI FILTER FABRIC JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS OR EQUIVALENT TO ATTACH FABRIC TO POSTS.	SPLICED AT POSTS. USE STAPLES, WIRE RINGS OR EQUIVALENT TO ATTACH FABRIC TO POSTS.

CITY OF BELLINGHAM, WASHINGTON	SCALE Horiz. 1"= N/A Vert. 1"= N/A	DATUM NAD 83/98 NAVD 88	Job. No. ET034 Date <u>xx</u> Field Bk. <u>xx</u>	L
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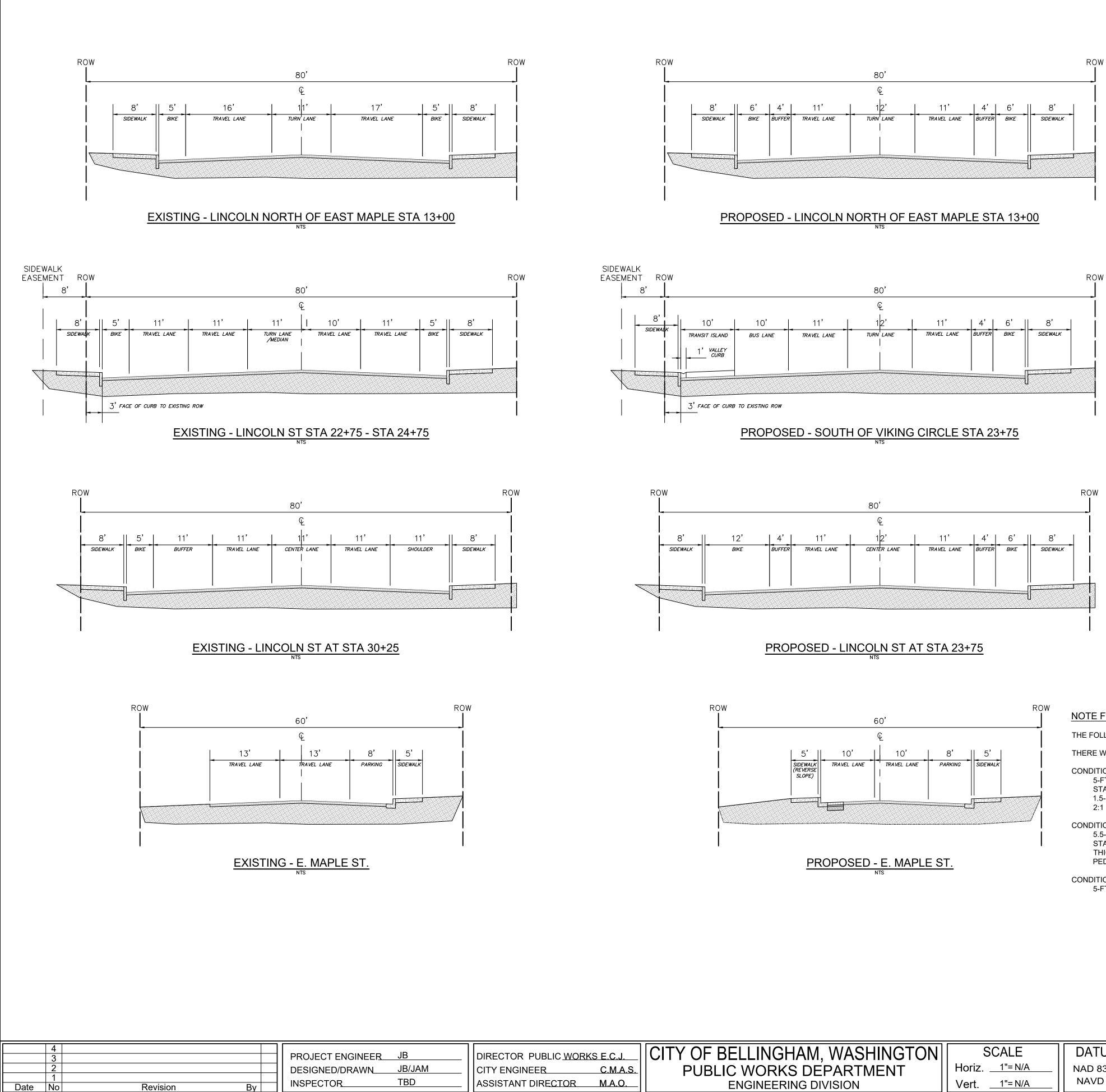




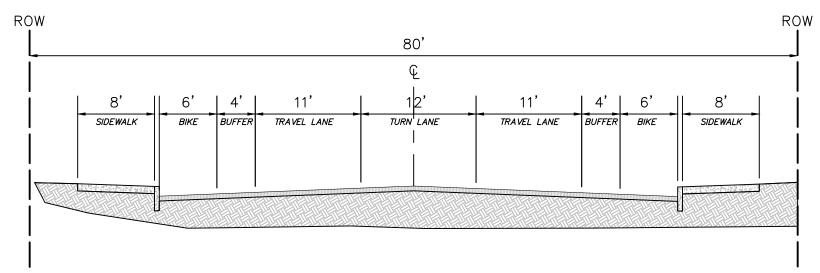
C.J	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	11
<u>M.A.S.</u>	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= 20'</u>	NAD 83/98	Date <u>xx</u>	
A.O	ENGINEERING DIVISION	Vert. <u>1"= NA</u>	NAVD 88	Field Bk. <u>xx</u>	

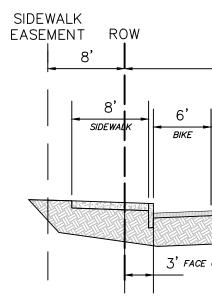


J	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	111
. <u>A.S.</u>	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= 20'</u>	NAD 83/98	Date <u>xx</u>	
O	ENGINEERING DIVISION	Vert. <u>1"= NA</u>	NAVD 88	Field Bk. <u>xx</u>	



PROJECT ENGINEER AT 778-7900





NOTE FOR 60% REVIEWERS:

THE FOLLOWING WILL BE SHOWN ON THE 90% PLANS:

THERE WILL BE THREE SIDEWALK CONDITIONS ALONG THE E. MAPLE ST SECTION.

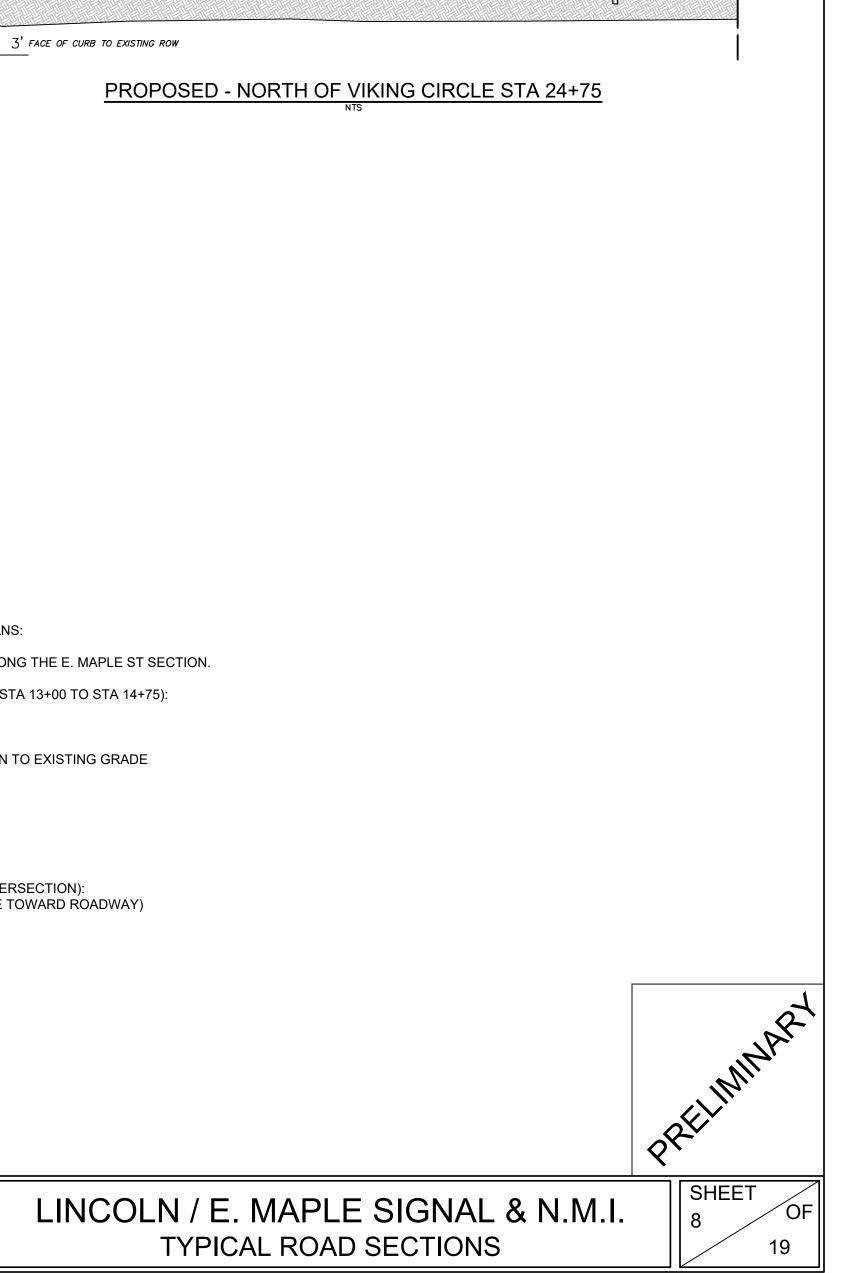
CONDITION 1 (APPROX. STA 10+15 TO STA 11+50 & STA 13+00 TO STA 14+75): 5-FT SIDEWALK W/ REVERSE SLOPE STANDARD CURB AND GUTTER

1.5-FT FILL SECTION AT SIDEWALK SLOPE 2:1 CATCH SLOPE FROM 1.5-FT WIDE SECTION TO EXISTING GRADE

CONDITION 2 (APPROX. STA 11+50 TO STA 13+00): 5.5-FT SIDEWALK W/ REVERSE SLOPE STANDARD CURB AND GUTTER THICKENED EDGE AT BACK OF WALK PEDESTRIAN HANDRAIL AT BACK OF WALK

CONDITION 3 (APPROX. STA 14+75 TO LINCOLN INTERSECTION): 5-FT SIDEWALK W/ STANDARD SLOPE (SLOPE TOWARD ROADWAY)

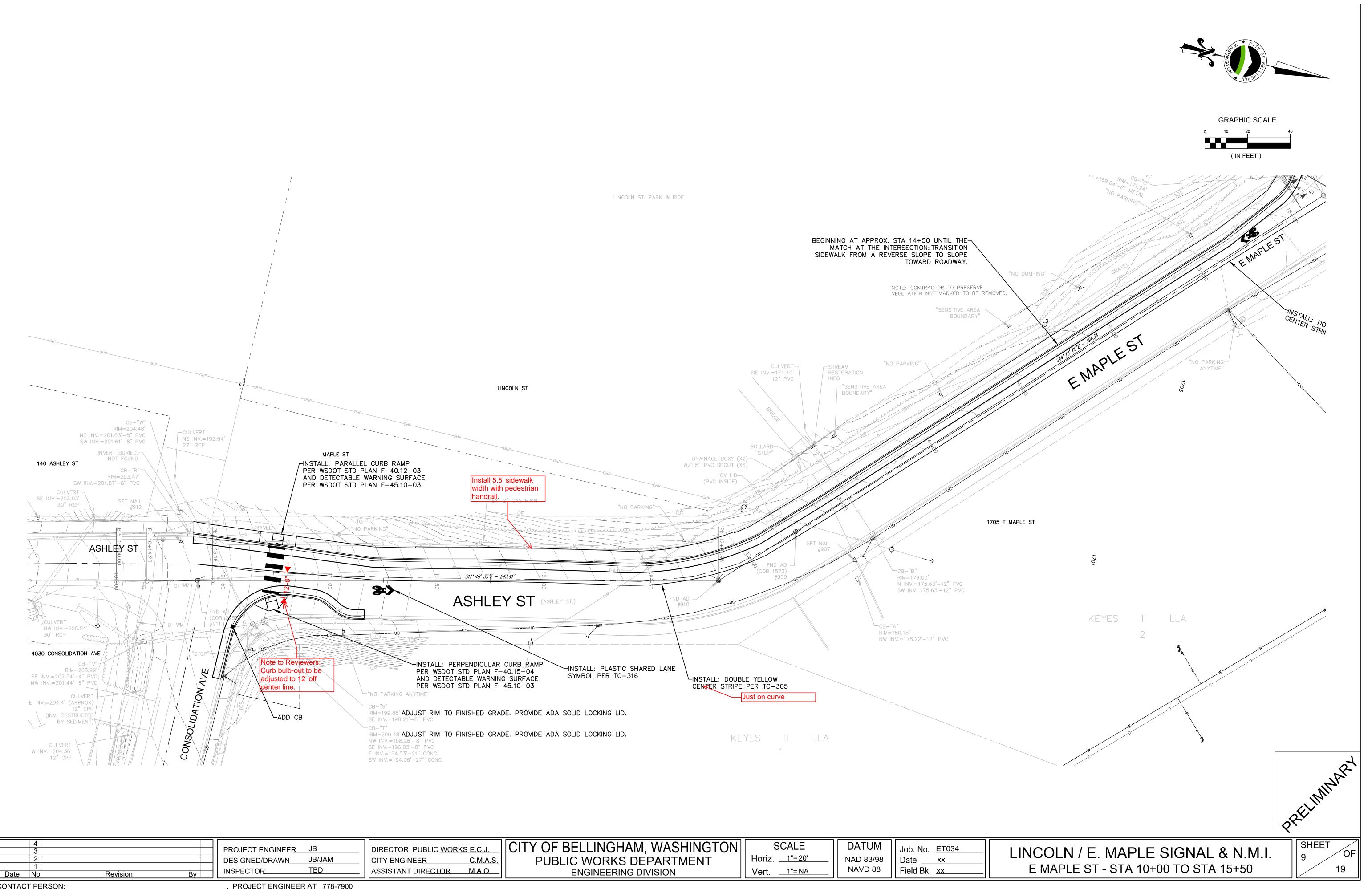
.J.	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. ET034	
1.A.S.	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= N/A</u>	NAD 83/98	Date <u>xx</u>	
.0	ENGINEERING DIVISION	Vert. <u>1"= N/A</u>	NAVD 88	Field Bk. <u>xx</u>	



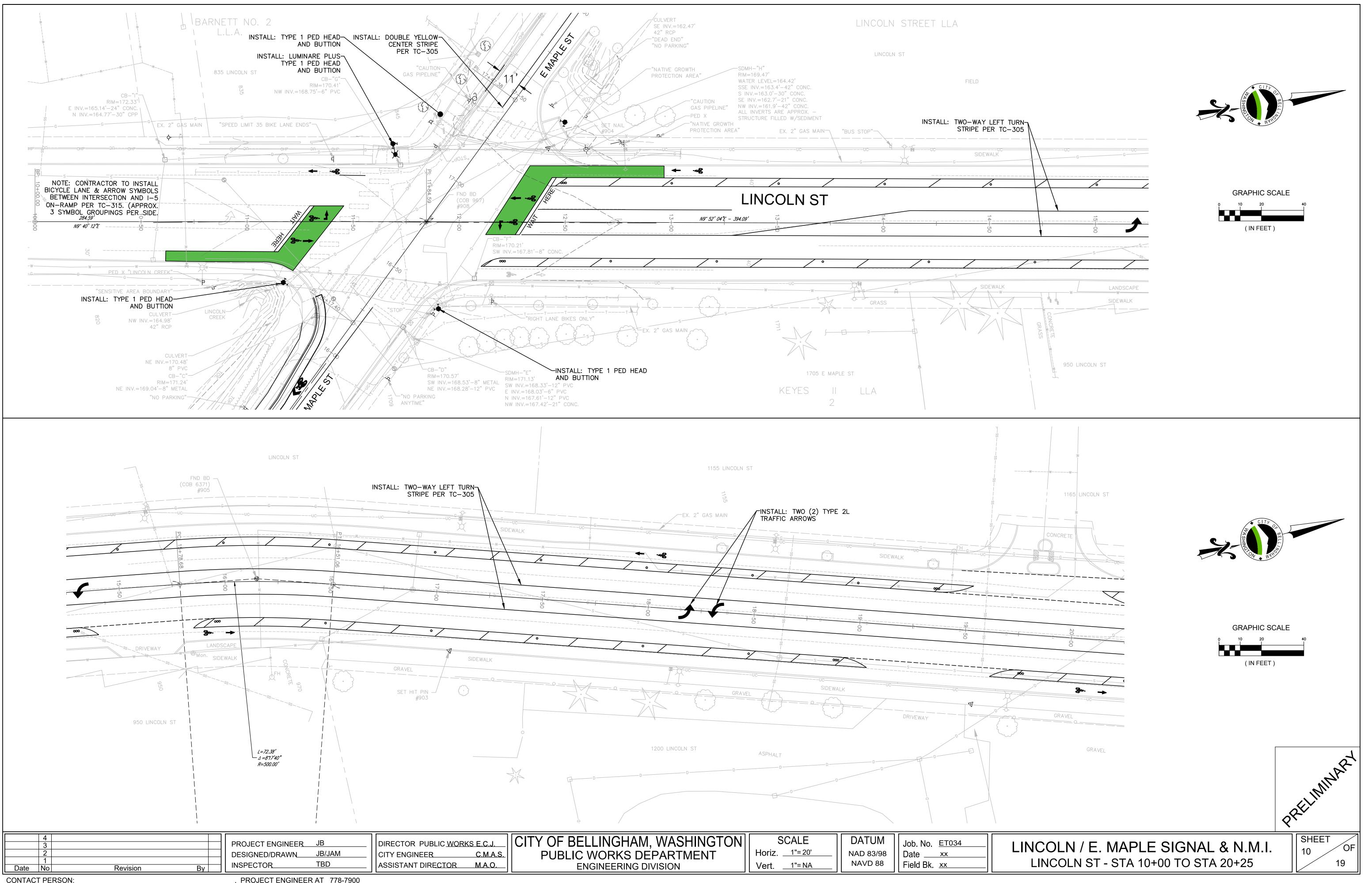
80' 14' 11' 11' | 4' | 6' || 8' BUFFER BIKE BUFFER TRAVEL LANE SIDEWALK TRAVEL LANE PEDESTRIÅN REFUGE

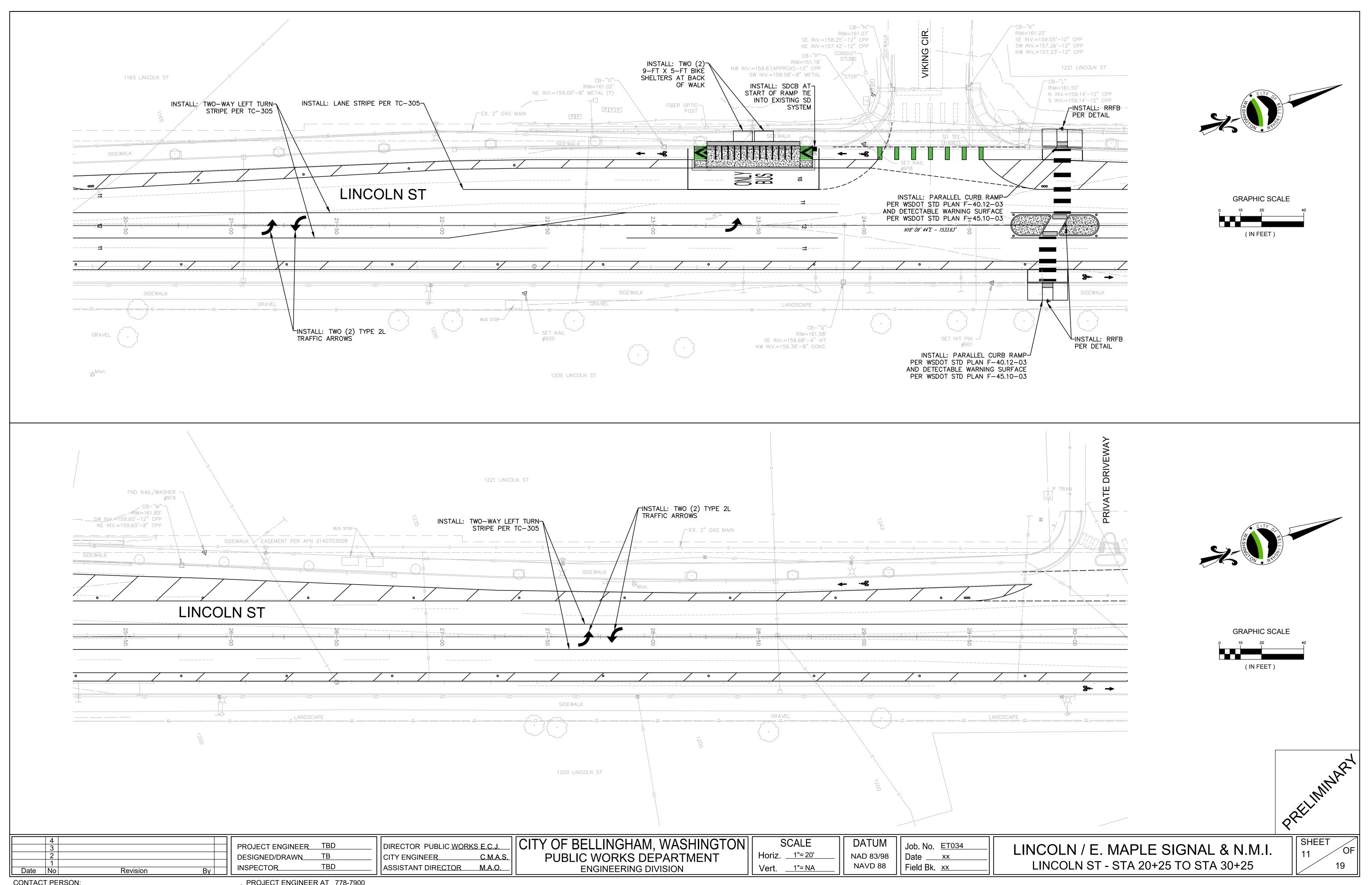
ROW

OF

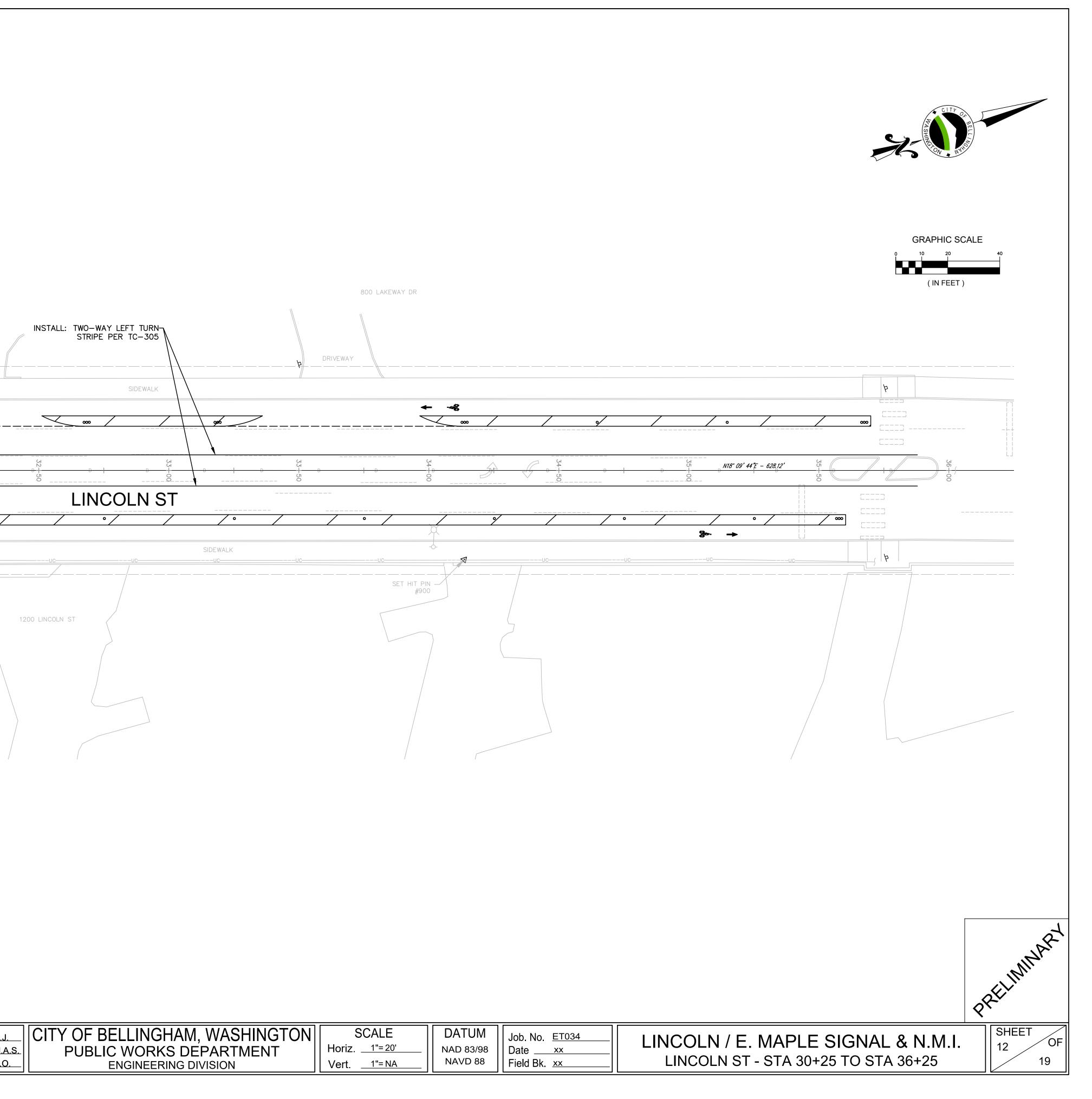


C.J.	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	
<u>M.A.S.</u>	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= 20'</u>	NAD 83/98	Date <u>xx</u>	
A.O	ENGINEERING DIVISION	Vert. <u>1"= NA</u>	NAVD 88	Field Bk. <u>xx</u>	

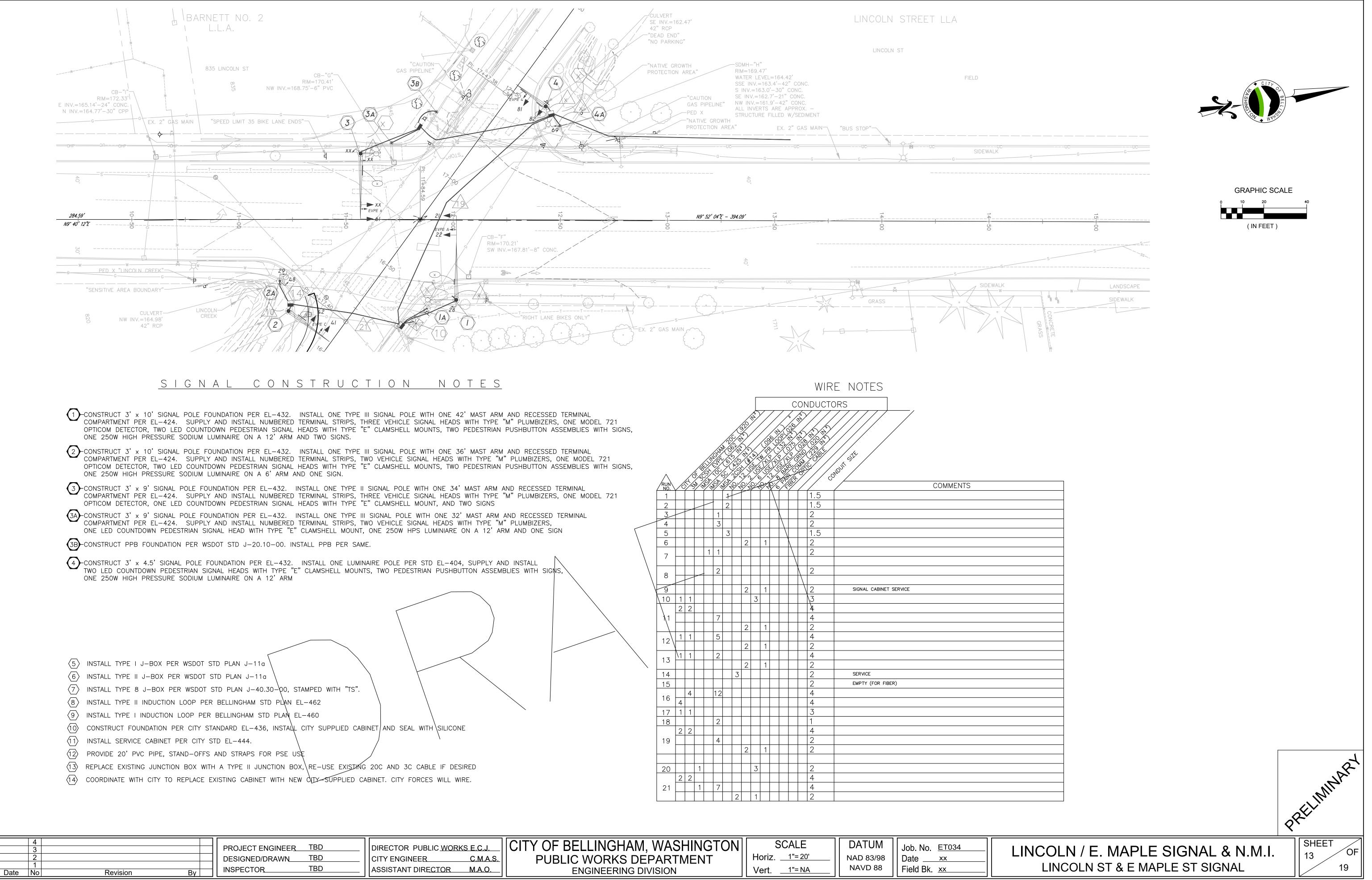




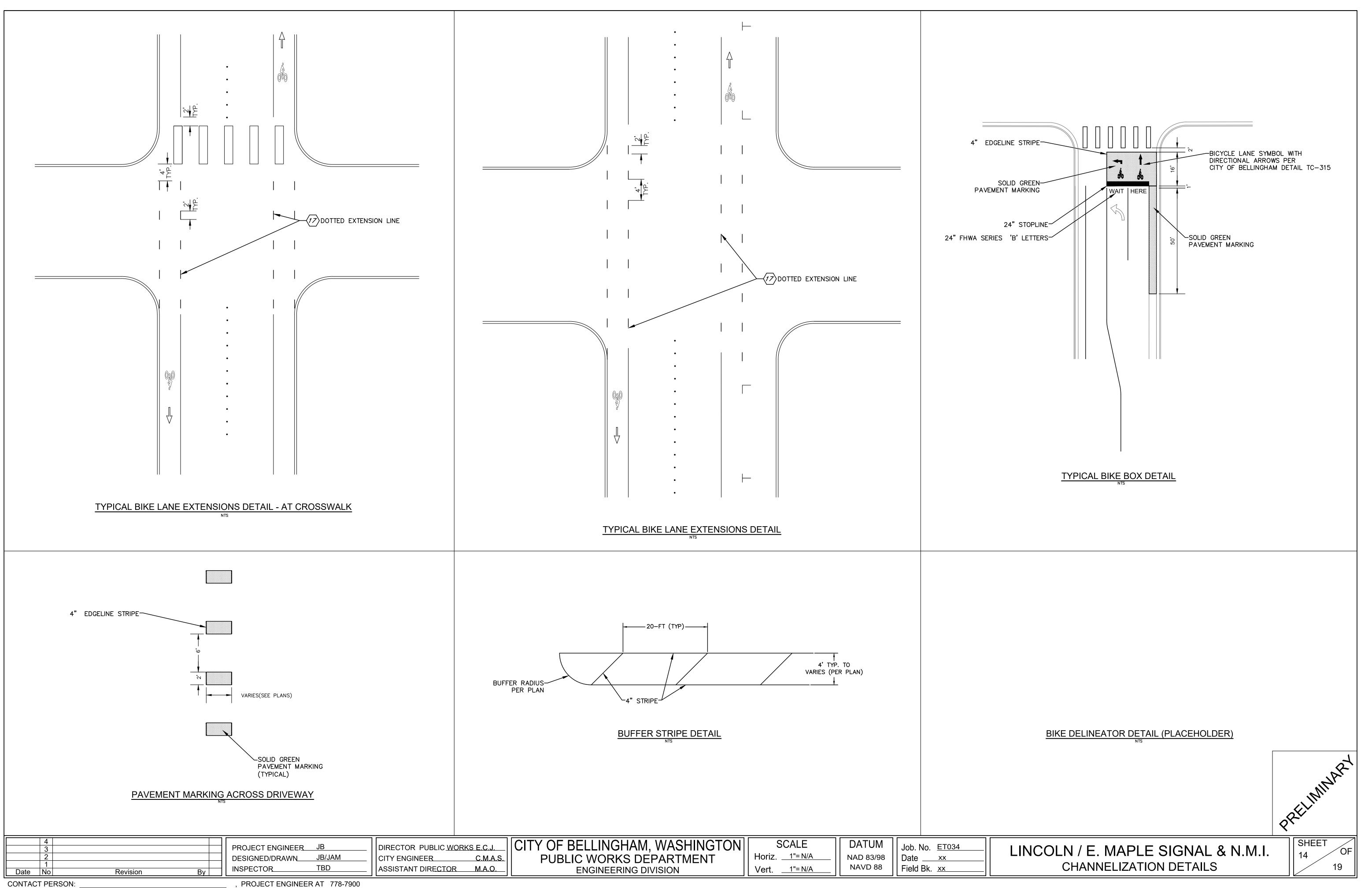
1251 LINCOL	N ST		
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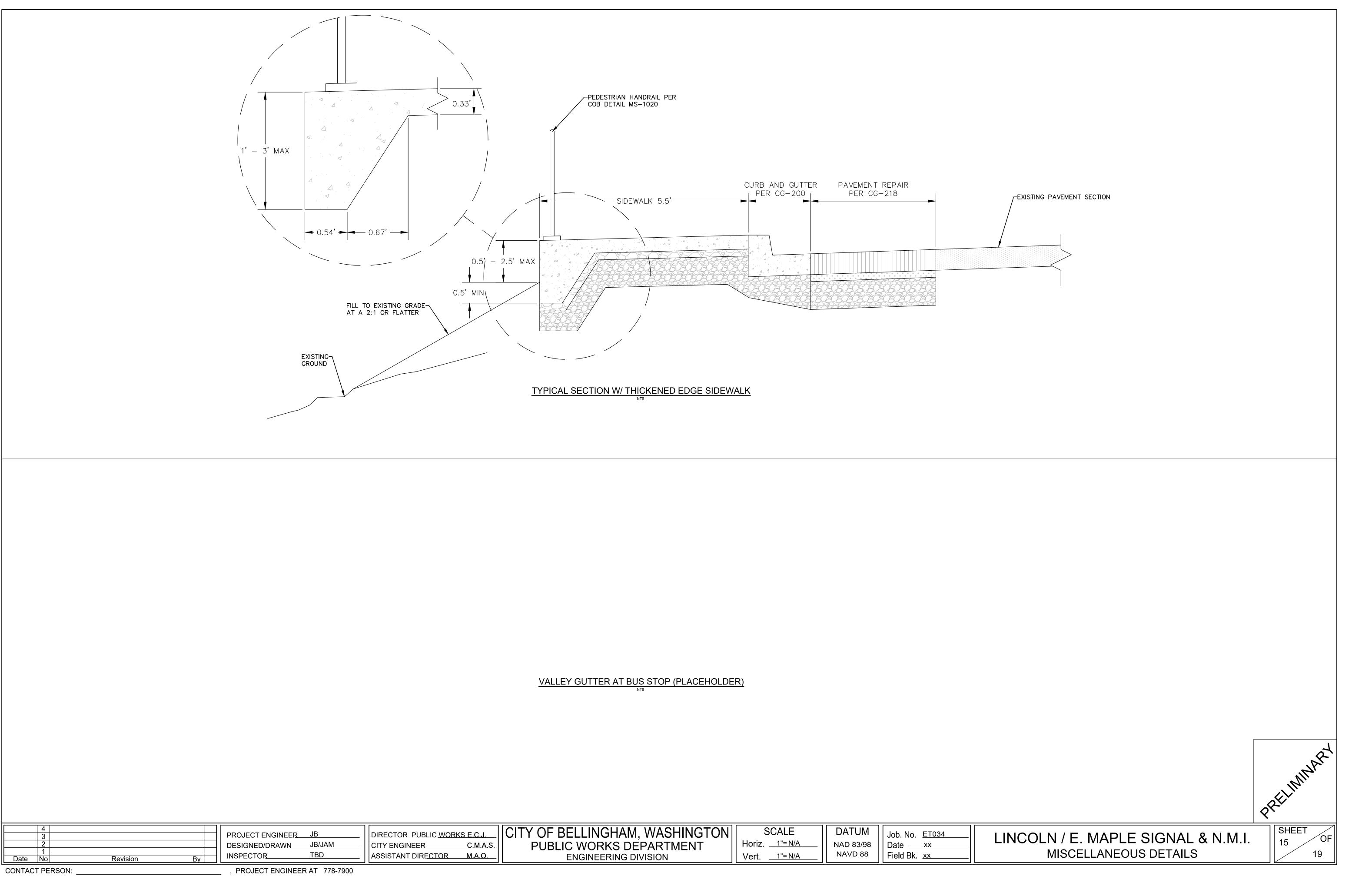


C.J	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	
1.A.S.	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= 20'</u>	NAD 83/98	Date <u>××</u>	
A.O.	ENGINEERING DIVISION	Vert. <u>1"= NA</u>	NAVD 88	Field Bk. <u>××</u>	

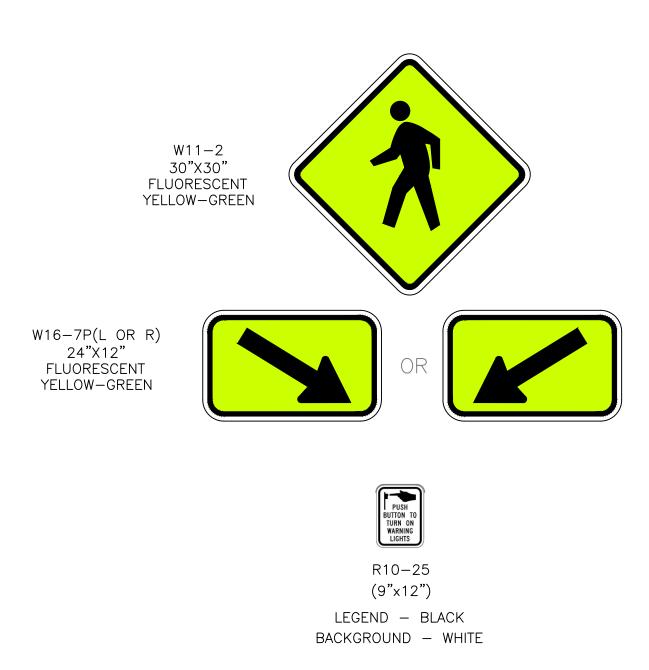


CITY OF BELLINGHAM, WASHINGTON	SCALE Horiz. 1"= 20' Vert. 1"= NA	DATUM NAD 83/98 NAVD 88	Job. No. <u>ET034</u> Date <u>xx</u> Field Bk. <u>xx</u>	L
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C.J	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	
M.A.S.	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"= N/A</u>	NAD 83/98	Date <u>xx</u>	
A.O	ENGINEERING DIVISION	Vert. <u>1"= N/A</u>	NAVD 88	Field Bk. <u>xx</u>	



SIGN DETAIL NOTES:

1. RRFB SIGNS, AS SHOWN ON THIS DETAIL AND THE PLANS, SHALL BE PROVIDED BY THE CONTRACTOR.

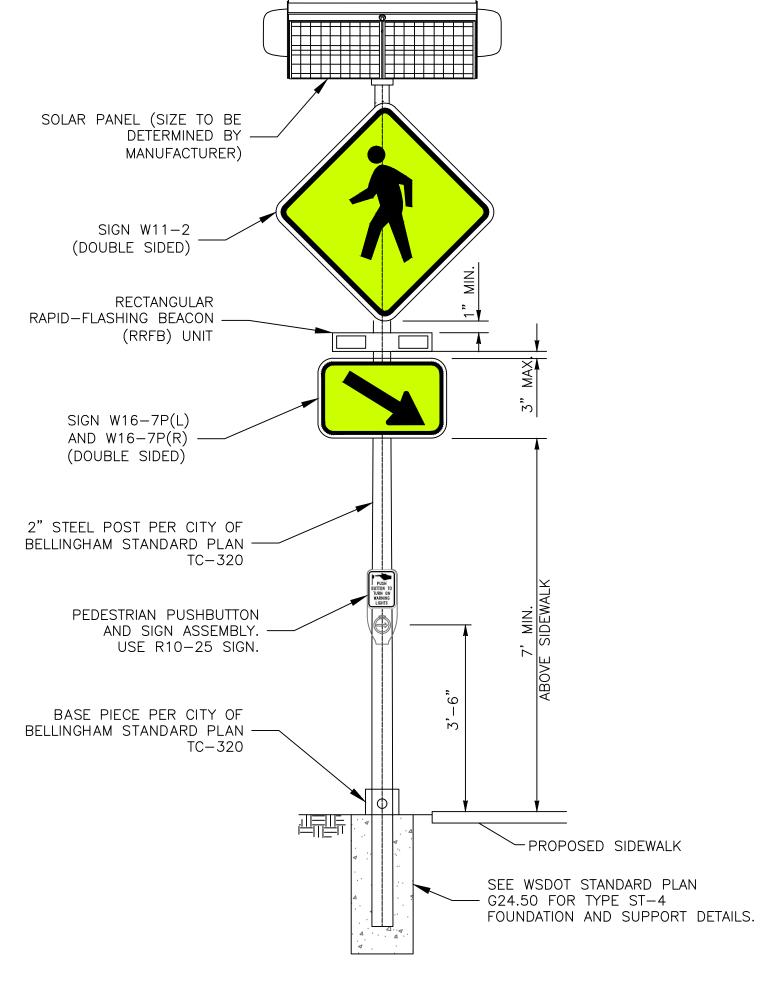
2. ALL OTHER GROUND-MOUNTED SMALL SIGNS SHALL BE PROVIDED BY THE CITY OF BELLINGHAM.

3. ORIENT SOLAR PANEL PER MANUFACTURER'S RECOMMENDATION.

CONTACT PERSON:

PROJECT ENGINEER AT 778-7900

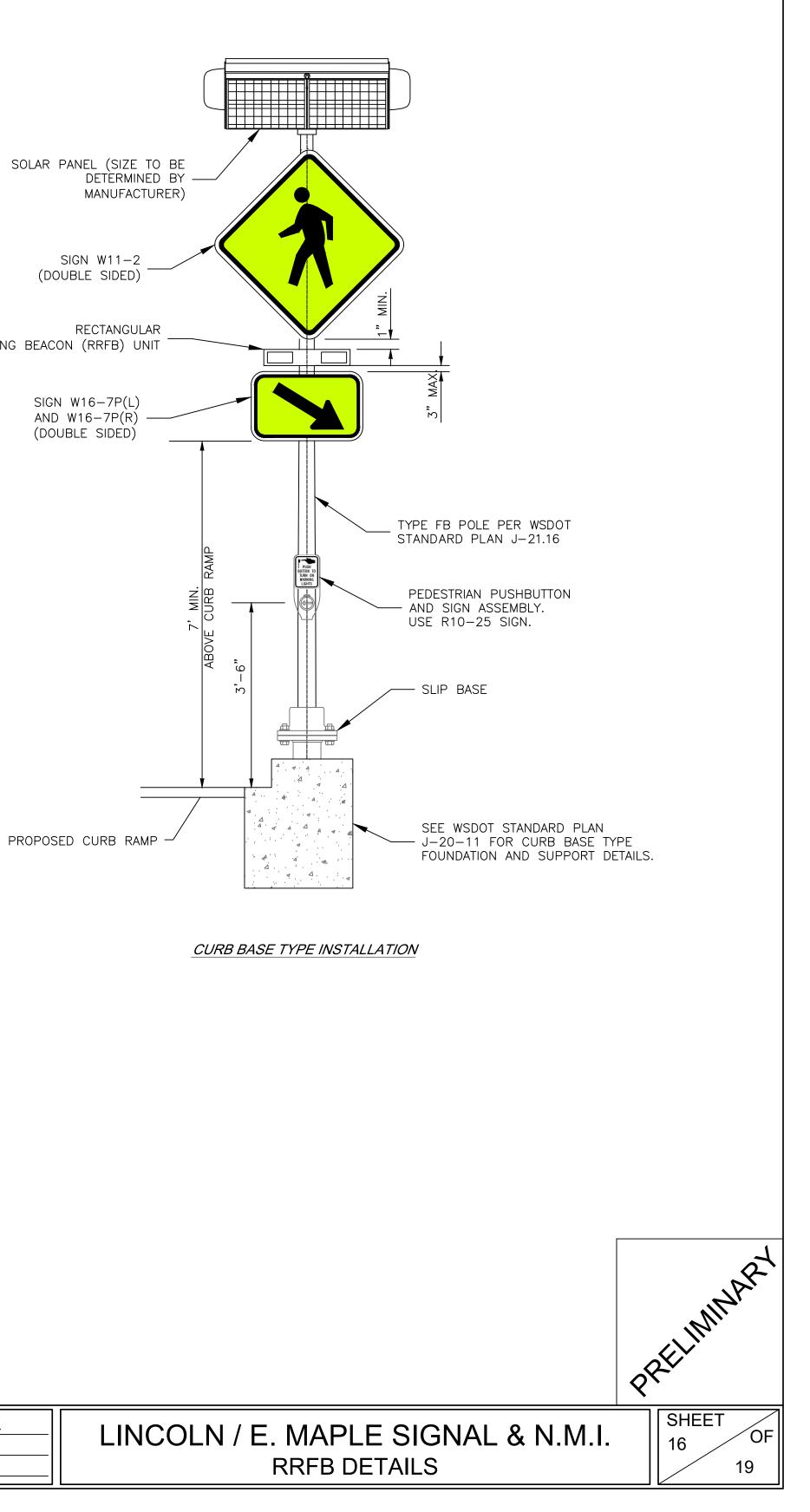


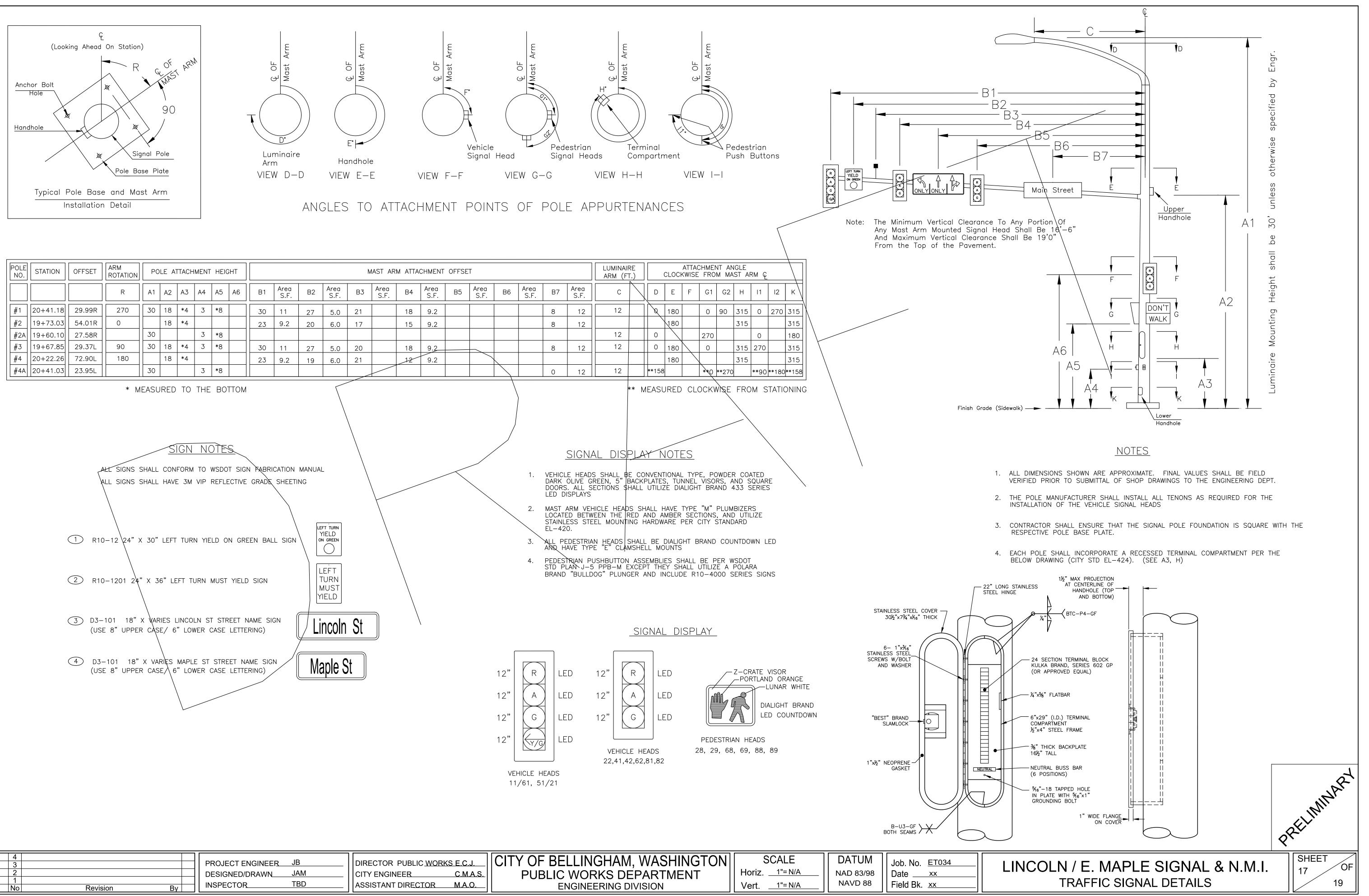


TYPICAL INSTALLATION

RAPID-FLASHING BEACON (RRFB) UNIT

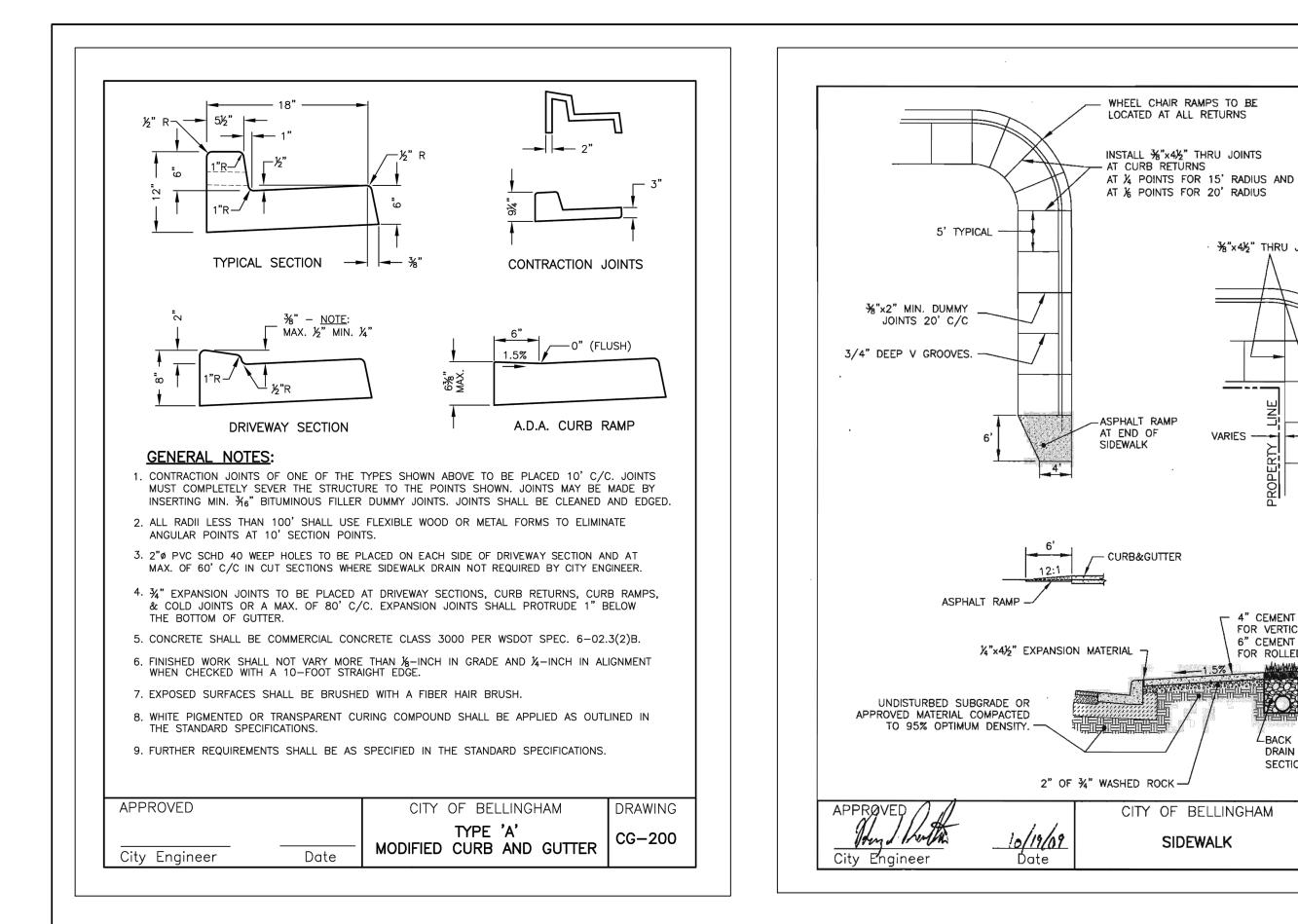
SIGN W16-7P(L) AND W16-7P(R) (DOUBLE SIDED)

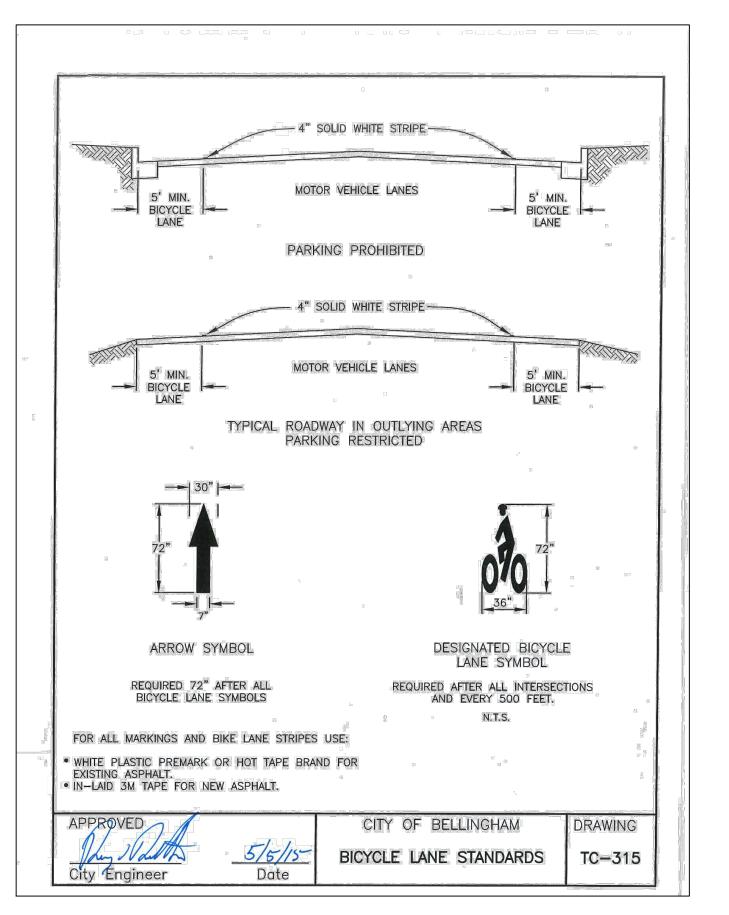


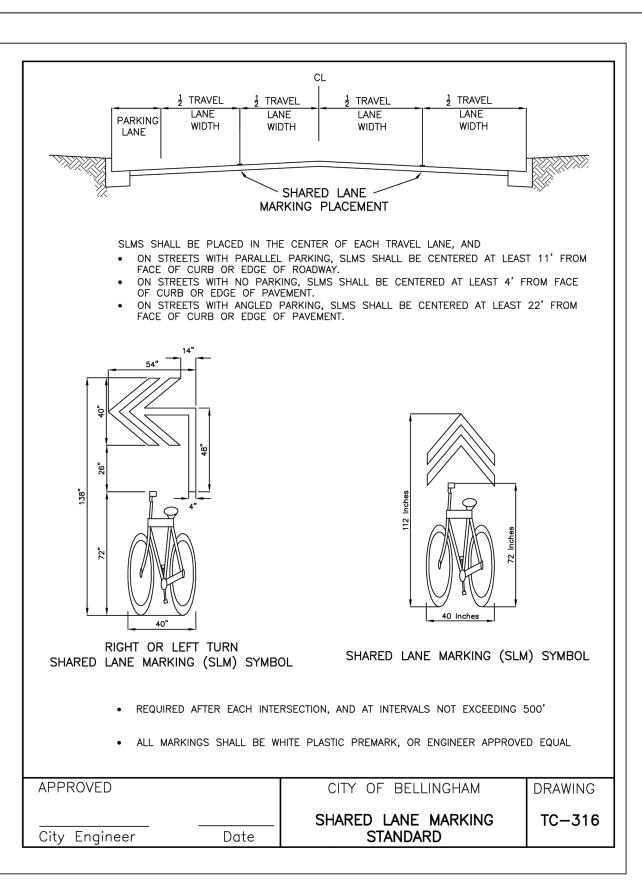


POLE NO.	STATION	OFFSET	ARM ROTATION	PC	DLE A	TTACH	IMENT	HEIC	GHT					١	MAST AR	M ATTA	CHMENT	OFFSE	T
			R	A1	A2	A3	A4	A5	A6	B1	Area S.F.	B2	Area S.F.	В3	Area S.F.	B4	Area S.F.	B5	4
#1	20+41.18	29.99R	270	30	18	*4	3	*8		30	11	27	5.0	21		18	9.2		
#2	19+73.03	54.01R	0		18	*4				23	9.2	20	6.0	17		15	9.2		
#2A	19+60.10	27.58R		30			3	*8											
#3	19+67.85	29.37L	90	30	18	*4	3	*8		30	11	27	5.0	20		18	9.2		
#4	20+22.26	72.90L	180		18	*4				23	9.2	19	6.0	21		12	9.2		
#4A	20+41.03	23.95L		30			3	*8											
* MEASURED TO THE BOTTOM SIGN NOTES ALL SIGNS SHALL CONFORM TO WSDOT SIGN FABRICATION MANUAL ALL SIGNS SHALL HAVE 3M VIP REFLECTIVE GRADE SHEETING THE DOT OF THE BOTTOM (1) R10-12 (24" X 30" LEFT TURN YIELD ON GREEN BALL SIGN																			

	PROJECT ENGINEER JB	DIRECTOR PUBLIC WORKS E.C.J.
	DESIGNED/DRAWN JAM	CITY ENGINEER C.M.A.
Revision By	INSPECTOR TBD	ASSISTANT DIRECTOR M.A.O.
	Revision By	DESIGNED/DRAWN JAM







4 3 2 1 Date No	Revision	By	PROJECT ENGINEER JB DESIGNED/DRAWN JB/JAM INSPECTOR TBD	DIRECTOR PUBLIC WOR	KS E.C.J. C.M.A.S. M.A.O.	CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE Horiz. 1"= N/A Vert. 1"= N/A	DATUM NAD 83/98 NAVD 88	Job. No. <u>ET034</u> Date <u>xx</u> Field Bk. <u>xx</u>	
				7000						

CONTACT PERSON:

, PROJECT ENGINEER AT 778-7900

⅔"×4½" THRU JOINTS

-

- 4" CEMENT CONCRETE

FOR VERTICAL CURB

FOR ROLLED CURB

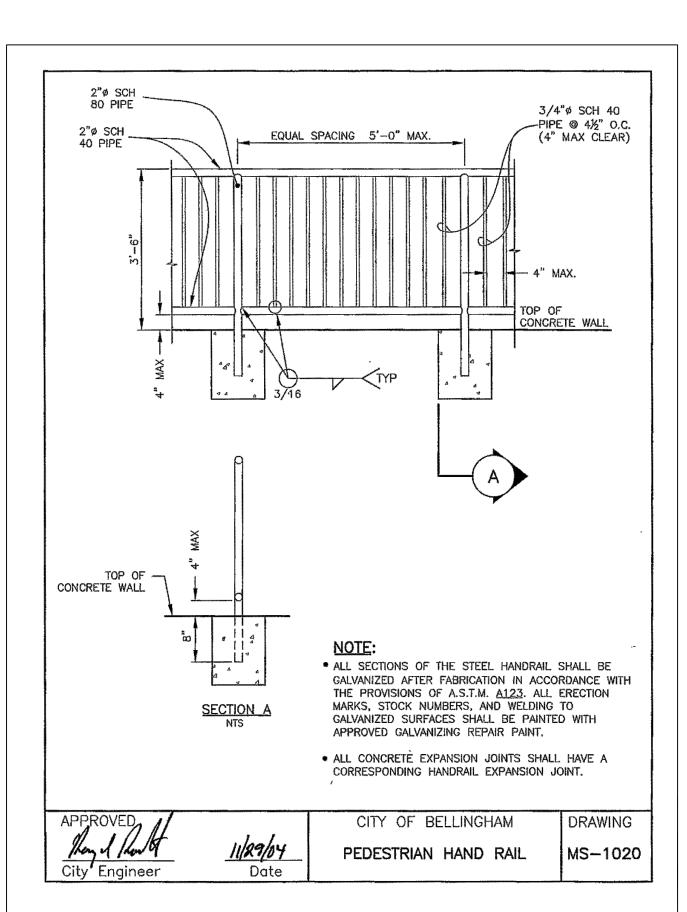
6" CEMENT CONCRETE

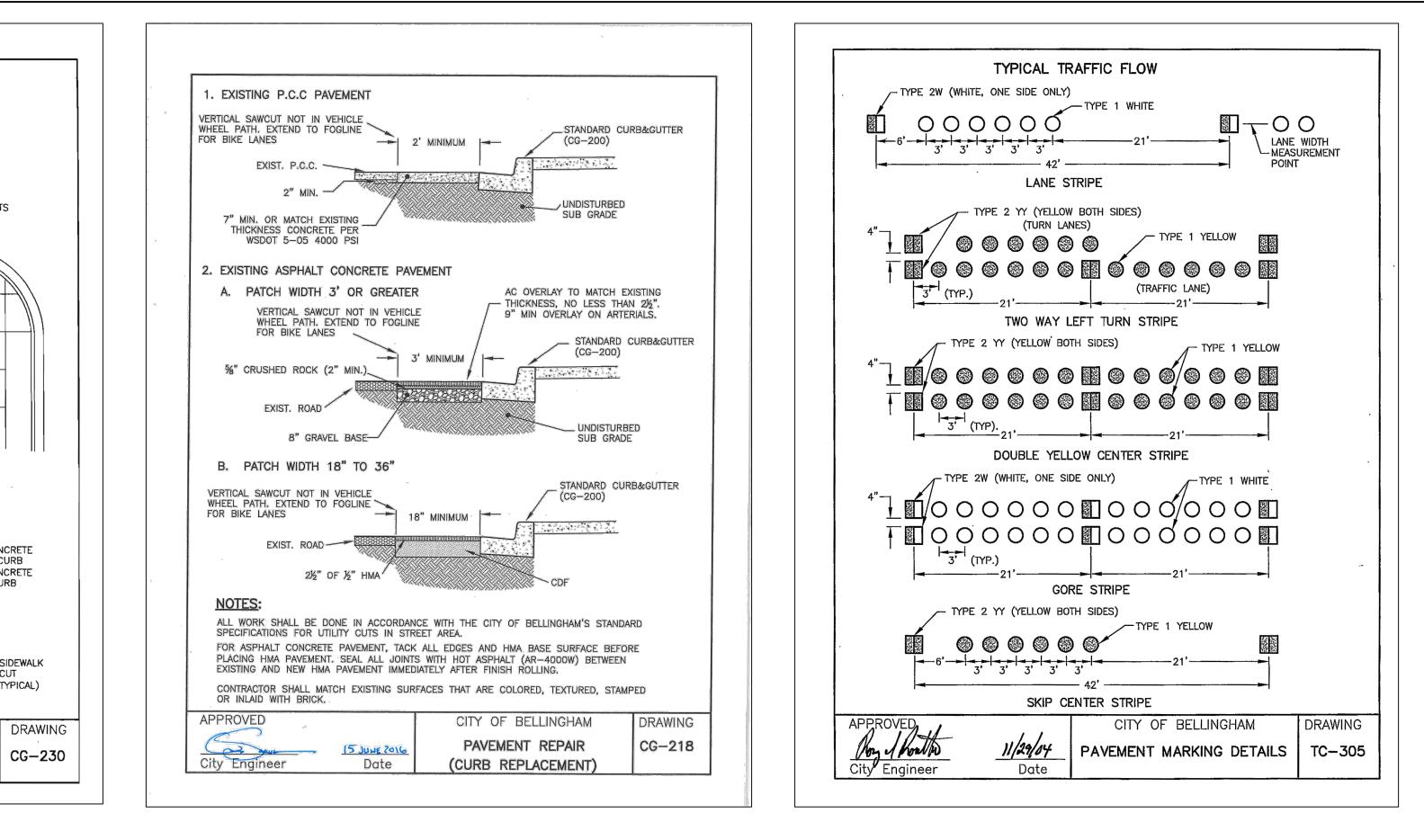
BACK OF SIDEWALK

DRAIN IN CUT SECTION (TYPICAL)

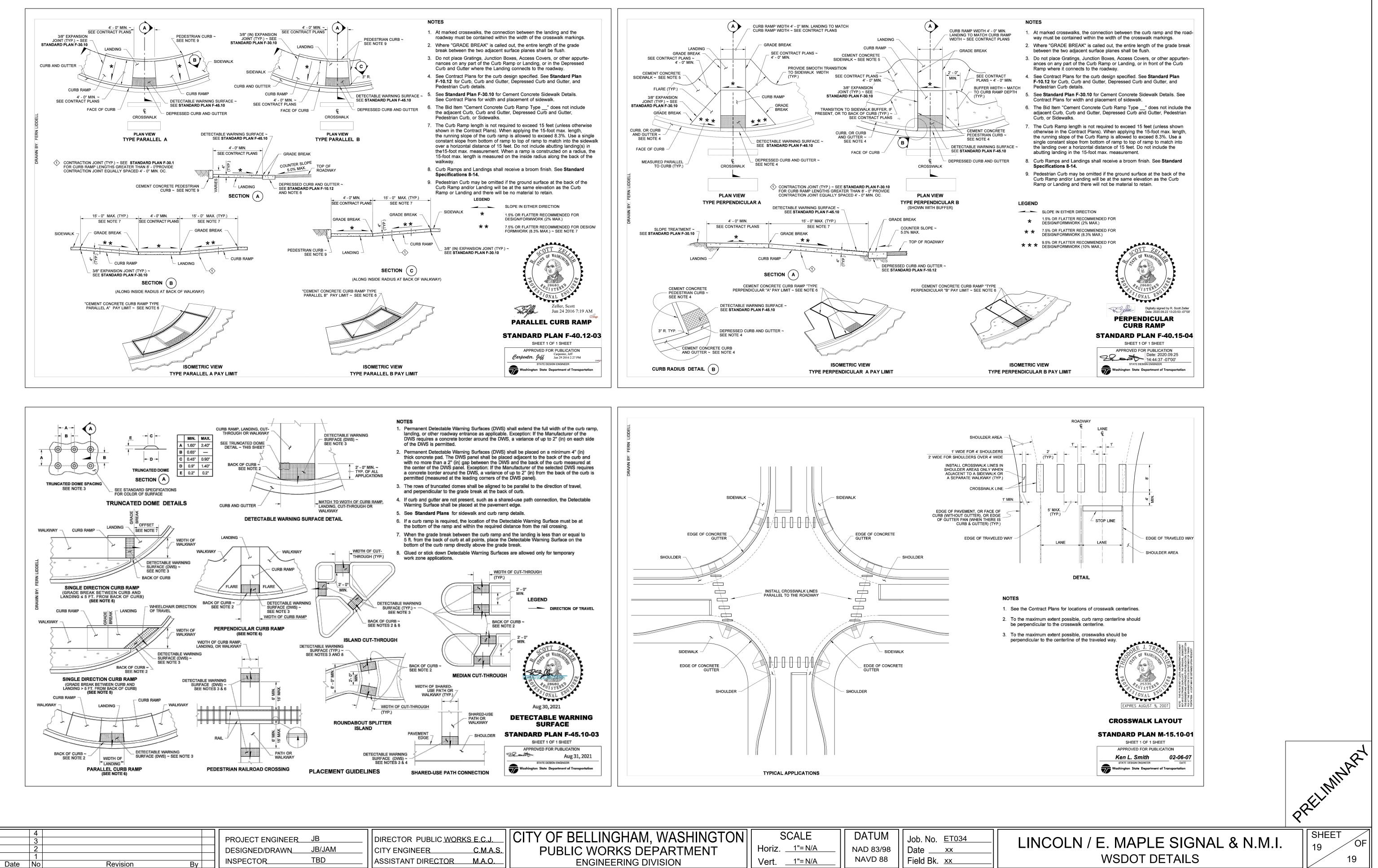
SIDEWALK

VARIES -----









CITY OF BELLINGHAM, WASHINGTON I.A.S. PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE Horiz. <u>1"= N/A</u> Vert. <u>1"= N/A</u>	DATUM NAD 83/98 NAVD 88	Job. No. ET034 Date xx Field Bk. xx	LI
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