ES-0560 PARKVIEW SAFE ROUTES TO SCHOOL

PROJECT DESCRIPTION

CONSTRUCT SIDEWALKS ON CORNWALL AVENUE, COOLIDGE STREET, INDIANA STREET AND VALETTE STREET ENHANCING ACCESS TO PARKVIEW ELEMENTARY SCHOOL. CONSTRUCT BIKE LANES ON W ILLINOIS STREET BETWEEN MERIDIAN STREET AND SUNSET DRIVE. CONSTRUCT INTERSECTION IMPROVEMENTS AT W ILLINOIS STREET AND CORNWALL AVENUE. CONSTRUCT ROUNDABOUTS AT W ILLINOIS STREET AND SUNSET DRIVE.

PROJECT CONTACT

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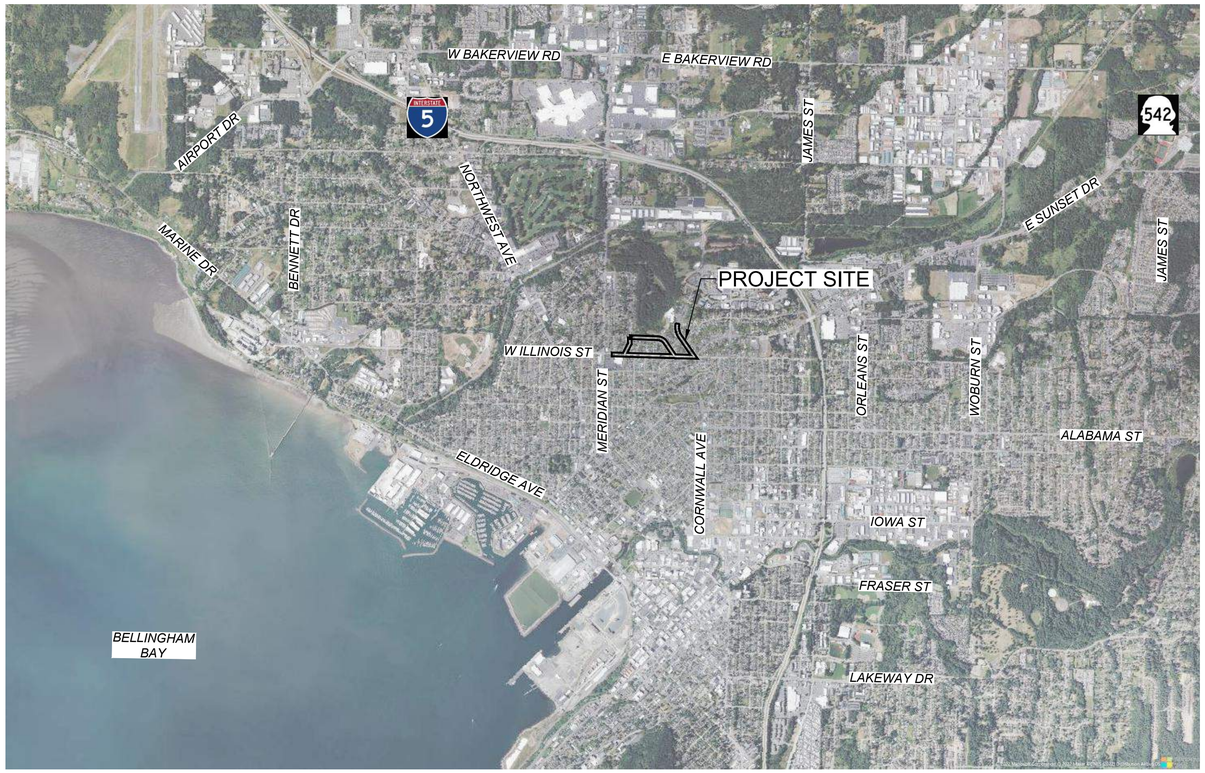

PROJECT AREA MAP

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
COVER

SHEET 01 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SURVEY LEGEND

- FOUND BRASS PLUG
- FOUND ALUMINUM DISK
- FOUND CONCRETE MONUMENT
- FOUND IRON PIPE OR REBAR & CAP
- FOUND NAIL
- SET REBAR & CAP MARKED "LSA 13138"
- SET WOOD LINE STAKE
- SET MAG NAIL AND SHINER
- SET SCRIBED "X"
- SET SPIKE
- TEMPORARY BENCH MARK
- SET HUB AND TACK
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM MANHOLE
- STORM MANHOLE APPROX. LOCATION
- CATCH BASIN
- STORM CLEANOUT
- YARD DRAIN
- ROOF DRAIN
- WATER MANHOLE
- WATER VAULT
- WATER VALVE COVER
- WATER SERVICE VALVE
- WATER BLOW-OFF VALVE
- IRRIGATION VALVE
- WATER METER
- POST INDICATOR VALVE
- AIR VACUUM RELEASE VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- WATER FAUCET
- POWER CABINET
- TRAFFIC SIGNAL CABINET
- POWER VAULT
- POWER MANHOLE
- POWER JUNCTION BOX
- POWER TRANSFORMER
- POWER METER
- POWER OUTLET
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL POLE WITH LIGHT
- PEDESTRIAN SIGNAL BUTTON
- STREET LIGHT
- YARD LIGHT
- COMMUNICATION MANHOLE
- COMMUNICATION RISER BOX
- COMMUNICATION VAULT
- TELEPHONE MANHOLE
- TV RISER
- UTILITY VAULT
- STEAM MANHOLE
- UTILITY POLE
- GUY ANCHOR
- GAS VALVE
- GAS METER
- GAS WARNING MARKER
- STREET SIGN
- MAIL BOX
- POST OR BOLLARD
- TEST PIT
- MONITORING WELL
- WELL
- WETLAND FLAG
- DECIDUOUS TREE
- CONIFER TREE
- TREE STUMP
- SHRUB
- UP/SL — UTILITY POLE WITH STREET LIGHT

- S — SANITARY SEWER LINE
- FM — SANITARY SEWER FORCE MAIN
- GIS-S — GIS SANITARY SEWER LINE
- SS — SANITARY SEWER SERVICE LINE
- D — STORM LINE
- GIS-D — GIS STORM LINE
- D — STORM CULVERT
- SD — STORM SERVICE LINE
- W — WATER LINE
- W — WATER SERVICE LINE
- FW — FIRE WATER LINE
- GIS-W — GIS WATER LINE
- IW — IRRIGATION WATER LINE
- STM — STEAM LINE
- G — GAS LINE
- P — UNDERGROUND POWER LINE
- P — OVERHEAD POWER LINE
- T — UNDERGROUND TELEPHONE LINE
- T — OVERHEAD TELEPHONE LINE
- FO — FIBER OPTIC LINE
- ATV — OVERHEAD CABLE LINE
- BTV — UNDERGROUND CABLE LINE
- DITCH LINE
- X — FENCE LINE
- GUARD RAIL
- EDGE PAVEMENT

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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
LEGEND

SHEET 02 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF BELLINGHAM STANDARDS, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT)/AMERICAN PUBLIC WORKS ASSOCATION (APWA) STANDARDS, THE PLANS, AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
3. A COPY OF THE APPROVED PLANS AND SPECIFICATION MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ANY EXISTING PUBLIC AND PRIVATE FEATURES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC STREETS FREE OF MUD AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL BE PREPARED TO USE POWER SWEEPERS OR OTHER EQUIPMENT NECESSARY TO KEEP THE ROADWAYS CLEAN AT NO COST TO THE CITY.
6. LOCATE AND PROTECT EXISTING UTILITIES AND FEATURES WITHIN THE PROJECT LIMITS PRIOR TO BEGINNING GROUND DISTURBING WORK. DAMAGE TO UTILITIES AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THESE PLANS. CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER (1-800-424-5555) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
7. POTHOLE LOCATIONS AS RECOMMENDED TO LOCATE UNDERGROUND UTILITIES.
8. MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES UNLESS PRIOR APPROVAL HAS BEEN OBTAINED BY THE CONTRACTOR FROM THE CITY OF BELLINGHAM AND PROPERTY OWNER. 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 AND ADJACENT TO THE PROJECT.
9. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL PRIOR TO BEGINNING CONSTRUCTION. MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AND FEATURES IN WORKING ORDER THROUGH THE DURATION OF CONSTRUCTION.
10. ALL LAWN AND VEGETATED AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY CONSTRUCTION EQUIPMENT, VEHICLE OR PERSONNEL SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTOR'S EXPENSE.
11. FIELD STAKE FINAL CURB AND EDGE OF PAVEMENT LOCATIONS TO BE APPROVED BY THE CITY OF BELLINGHAM PRIOR TO CONSTRUCTION. THE LOCATIONS OF PROPOSED FEATURES SHOWN IN THESE PLANS ARE APPROXIMATE AND SUBJECT TO MINOR REVISIONS BY THE CITY OF BELLINGHAM.
12. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
13. THE CONTRACTOR IS RESPONSIBLE FOR DISPERSING WATER FOR DUST CONTROL ONTO UN-PAVED TRAFFIC LANES THAT ARE OPEN FOR PUBLIC USE AS DIRECTED BY THE ENGINEER.
14. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION 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.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, PROCURING, AND INSTALLATION OF ALL OVERHEAD TRAFFIC SIGNS AS NOTED ON THE PLANS. ALL GROUND MOUNTED SIGNS SHOWN FOR INFORMATION ONLY AND WILL BE INSTALLED BY THE CITY OF BELLINGHAM UNLESS OTHERWISE NOTED ON THE PLANS.
16. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF BELLINGHAM ENGINEERING DIVISION PRIOR TO BEGINNING CONSTRUCTION.
17. PUSHBUTTONS SHALL BE PLACED WITHIN A 9 INCH REACH FROM CURB RAMP LANDING AREAS, PER ADA ACCESSIBILITY GUIDELINES.
18. THE CONTRACTOR SHALL VERIFY FOUNDATION LOCATIONS ARE FREE OF UTILITY CONFLICTS.
19. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK.
20. ANY EXISTING UTILITIES THAT ARE IN SERVICE SHALL REMAIN OPERATIONAL AT ALL TIMES.
21. ANY SIDEWALK, LANDSCAPE, SHOULDER, OR ROADWAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS. FULL DEPTH SAWCUT REQUIRED AT PAVEMENT PATCH EDGE FOR ROADWAY TRENCH WORK. ALL SIDEWALK REPAIR SHALL BE DONE TO FULL DEPTH BY WHOLE PANELS BETWEEN SIDEWALK JOINTS. PARTIAL PANEL REPLACEMENT WILL NOT BE ALLOWED. USE CDF IF COMPACTION CANNOT BE ACHIEVED UNDER ADJACENT SIDEWALK.
22. CONTRACTOR SHALL SUBMIT ALL MATERIAL CUT SHEETS TO THE CITY ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION.
23. ALL CABLES INSTALLED BY THE CONTRACTOR SHALL BE LABELED IN EACH JUNCTION BOX, CABLE VAULT, AND TRAFFIC SIGNAL CONTROLLER CABINET.
24. EXISTING CONDUCTORS LISTED IN THE WIRING SCHEDULE ARE FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM CONDUIT CONTENTS IN THE FIELD.
25. PROPOSED ELECTRICAL EQUIPMENT SUCH AS JUNCTION BOXES AND CONDUIT ARE SHOWN SCHEMATICALLY AND MAY BE FIELD ADJUSTED TO AVOID CONFLICTS, AS DIRECTED BY THE ENGINEER.
26. ALL NEW JUNCTION BOXES SHALL BE INSTALLED TO MATCH THE GRADE OF THE EXISTING/PROPOSED SIDEWALK OR LANDSCAPE AREA. THE CONTRACTOR SHALL AVOID PLACEMENT OF ANY CONDUITS, JUNCTION BOXES AND CABLE VAULTS IN LOCATIONS THAT WILL AFFECT EXISTING PEDESTRIAN CURB RAMPS.
27. ALL LIDS AND FRAMES FOR JUNCTION BOXES LOCATED IN SIDEWALKS SHALL HAVE NON-SLIP SURFACES.
28. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSHBUTTONS SHALL BE SECURELY COVERED WHILE NOT IN OPERATION.
29. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

SURVEY NOTES

(PER WAC 332-130-145)

1. THIS TOPOGRAPHIC SURVEY WAS PERFORMED BETWEEN APRIL AND MAY OF 2022. ALL MONUMENTS SHOWN HEREON WERE VISITED DURING THE COURSE OF THIS SURVEY, UNLESS OTHERWISE NOTED.
2. ANGULAR AND LINEAR CONTROL MEASUREMENTS WERE MADE USING A COMBINATION OF GPS AND CONVENTIONAL METHODS. PRIMARY CONTROL DATA WERE OBSERVED USING SURVEY GRADE CARLSON BRx6+ GPS RECEIVERS AND GEOMAX CR2+ 2 SECOND ROBOTIC TOTAL STATION. TOPOGRAPHIC DATA WAS COLLECTED USING A TRIMBLE MX50 MOBILE MAPPING LASER SCANNER WITH ADDITIONAL DATA COLLECTED USING CONVENTIONAL METHODS.
3. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-090.
4. THIS SURVEY HELD RECORD HORIZONTAL AND VERTICAL VALUES OF CONTROL NETWORK PUBLISHED BY THE CITY OF BELLINGHAM
5. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. NO ATTEMPT HAS BEEN MADE TO DETERMINE THE EXISTENCE OR LOCATION OF ANY EASEMENTS WHICH MAY SERVE OR ENCUMBER SUBJECT PROPERTY.
6. RIGHT-OF-WAY BOUNDARIES DEPICTED HEREON ARE BASED UPON ASSESSOR AND GIS DATA. NO ATTEMPT HAS BEEN MADE BY THIS SURVEY TO VERIFY THE ACCURACY OF SAID RECORDS.
6. BASIS OF ELEVATIONS: ELEVATION VALUES AND CONTOURS DEPICTED ARE BASED UPON PRIMARY BENCHMARK REFERENCED IN CONTROL NOTES HEREON.
7. SOURCE OF CONTOURS: THE CONTOURS DEPICTED ARE GENERATED FROM DIRECT OBSERVATIONS IN THE FIELD.
8. CONTOUR INTERVAL LABELING: CONTOURS DEPICTED ARE AT 1-FOOT INTERVALS.
9. ELEVATION AND/OR CONTOURS ACCURACY: THIS SURVEY COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.
10. SOURCE OF DEPICTED UTILITY INFORMATION: CONDUCTIBLE UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED UPON FIELD MEASUREMENTS OF ABOVE GROUND APPURTENANCES AND PAINT MARKS BY APS LOCATES INC. IN APRIL AND MAY OF 2022.
11. ACCURACY OF DEPICTED UTILITY INFORMATION: ACTUAL LOCATION OF UNDERGROUND UTILITIES MAY BE DIFFERENT. UTILITY PIPE SIZES WERE OBSERVED FROM THE SURFACE AND IN SOME CASES CHECKED AGAINST AS-BUILT MAPS OF RECORD. ALL UTILITIES AND SIZES SHOULD BE VERIFIED BEFORE COMMENCING CONSTRUCTION. THE LOCATION OF UNDERGROUND UTILITIES BEYOND AS DESCRIBED ABOVE WAS NOT PART OF THIS SURVEY'S CONTRACTED SCOPE OF WORK.

CONTROL NOTES

1. HORIZONTAL DATUM:

   NAD 83/98 (USFt) - PER CITY OF BELLINGHAM CONTROL NETWORK

2. BASIS OF BEARINGS:

   NAD 83/98 (USFt) - PER CITY OF BELLINGHAM CONTROL NETWORK

3. VERTICAL DATUM:

   NAVD 88 - PER CITY OF BELLINGHAM CONTROL NETWORK
   REFERENCE BENCHMARKS:

   CITY OF BELLINGHAM MONUMENT No. 5181
   RR SPIKE ON THE EAST SIDE OF THE UTILITY POLE AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF WEST ILLINOIS AND ELM
   ELEV = 83.22' (USFt)

   CITY OF BELLINGHAM MONUMENT No. 5172
   TOP OF SOUTHERLY BOLT
   BASE OF TRAFFIC SIGNAL POLE
   NORTHEAST INTERSECTION QUADRANT OF
   W. ILLINOIS AND CORNWALL
   ELEV: 125.65' (USFt)

   CITY OF BELLINGHAM MONUMENT No. 5843
   2" BRASS DISK TOP OF CURB
   SOUTHEAST INTERSECTION QUADRANT OF
   W. ILLINOIS AND WALNUT
   ELEV: 81.24 (USFt)

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ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
NOTES

SHEET 03 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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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 EROSION 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.
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
7.ALL DISTURBED SOILS WITHIN THE PROJECT LIMITS SHALL BE AMENDED AS SHOWN ON THE LANDSCAPE PLAN WHERE SHOWN AND PER ECOLOGY BMP T5.13:POST CONSTRUCTION SOIL QUALITY AND DEPTH, IN ALL OTHER AREAS.

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 SHALL BE CONDUCTED USING SPILL PREVENTION AND CONTROL MEASURES. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY SPILL INCIDENT.

BMPS SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY pH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. PERMITTEES SHALL ADJUST THE pH OF STORMWATER IF NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.

SUGGESTED BMPS/BMPS TO BE USED:
BMP C151: CONCRETE HANDLING
BMP C152: SAWCUTTING AND SURFACING POLLUTION PROTECTION
(A) BMP C153: MATERIALS DELIVERY, STORAGE, AND CONTAINMENT

CONTROL DEWATERING

1) FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAVE SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM PRIOR TO DISCHARGE TO A SEDIMENT TRAP OF SEDIMENT POND.
2) CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT #8, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS. CLEAN DE-WATERING WATER SHOULD NOT BE ROUTED THROUGH STORMWATER SEDIMENT PONDS.
3) OTHER DE-WATERING DISPOSAL OPTIONS MAY INCLUDE:
a) INFILTRATION.
b) TRANSPORT OFF SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.
c) ECOLOGY APPROVED ON-SITE CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES.
d) SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF THERE IS NO OTHER OPTION.
e) USE OF A SEDIMENTATION BAG (DIRTBAG OR APPROVED EQUAL) WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DE-WATERING.
4) HIGHLY TURBID CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM STORMWATER.

MAINTAIN BMPS

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 SEDIMENT.
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 REMOVED OR STABILIZED ON SITE. DISTURBED SOILS SHALL BE PERMANENTLY STABILIZED.

SUGGESTED BMPS/BMPS TO BE USED:
BMP C150: MATERIALS ON HAND

MANAGE THE PROJECT

SEASONAL WORK LIMITATIONS:
FROM OCTOBER 1 THROUGH APRIL 30, CLEARING, GRADING, AND OTHER SOIL DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED THROUGH A COMBINATION OF THE FOLLOWING:
a) SITE CONDITIONS INCLUDING EXISTING VEGETATIVE COVERAGE, SLOPE, SOIL TYPE AND PROXIMITY TO RECEIVING WATERS; AND
b) LIMITATIONS ON ACTIVITIES AND THE EXTENT OF DISTURBED AREAS; AND
c) PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

BASED ON THE INFORMATION PROVIDED AND LOCAL WEATHER CONDITIONS, THE LOCAL PERMITTING AUTHORITY MAY EXPAND OR RESTRICT THE SEASONAL LIMITATION ON SITE DISTURBANCE. THE LOCAL PERMITTING AUTHORITY SHALL TAKE ENFORCEMENT ACTION—SUCH AS NOTICE OF VIOLATION, ADMINISTRATIVE ORDER, PENALTY OR STOP-WORK ORDER—UNDER THE FOLLOWING CIRCUMSTANCES:
—IF, DURING THE COURSE OF ANY CONSTRUCTION ACTIVITY OR SOIL DISTURBANCE DURING THE SEASONAL LIMITATION PERIOD, SEDIMENT LEAVES THE CONSTRUCTION SITE CAUSING A VIOLATION OF THE SURFACE WATER QUALITY STANDARD
OR
—IF CLEARING AND GRADING LIMITS OR EROSION AND SEDIMENT CONTROLS MEASURES SHOWN IN THE APPROVED PLAN ARE NOT MAINTAINED.

SUGGESTED BMPS/BMPS TO BE USED:
BMP C162: SCHEDULING

PROTECT LOW IMPACT DEVELOPMENT BMPS.

(A) PROTECT ALL BIORETENTION AND RAIN GARDEN BMPS FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIORETENTION AND/OR RAIN GARDEN BMPS. RESTORE THE BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.

(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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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
NOTES

SHEET 04 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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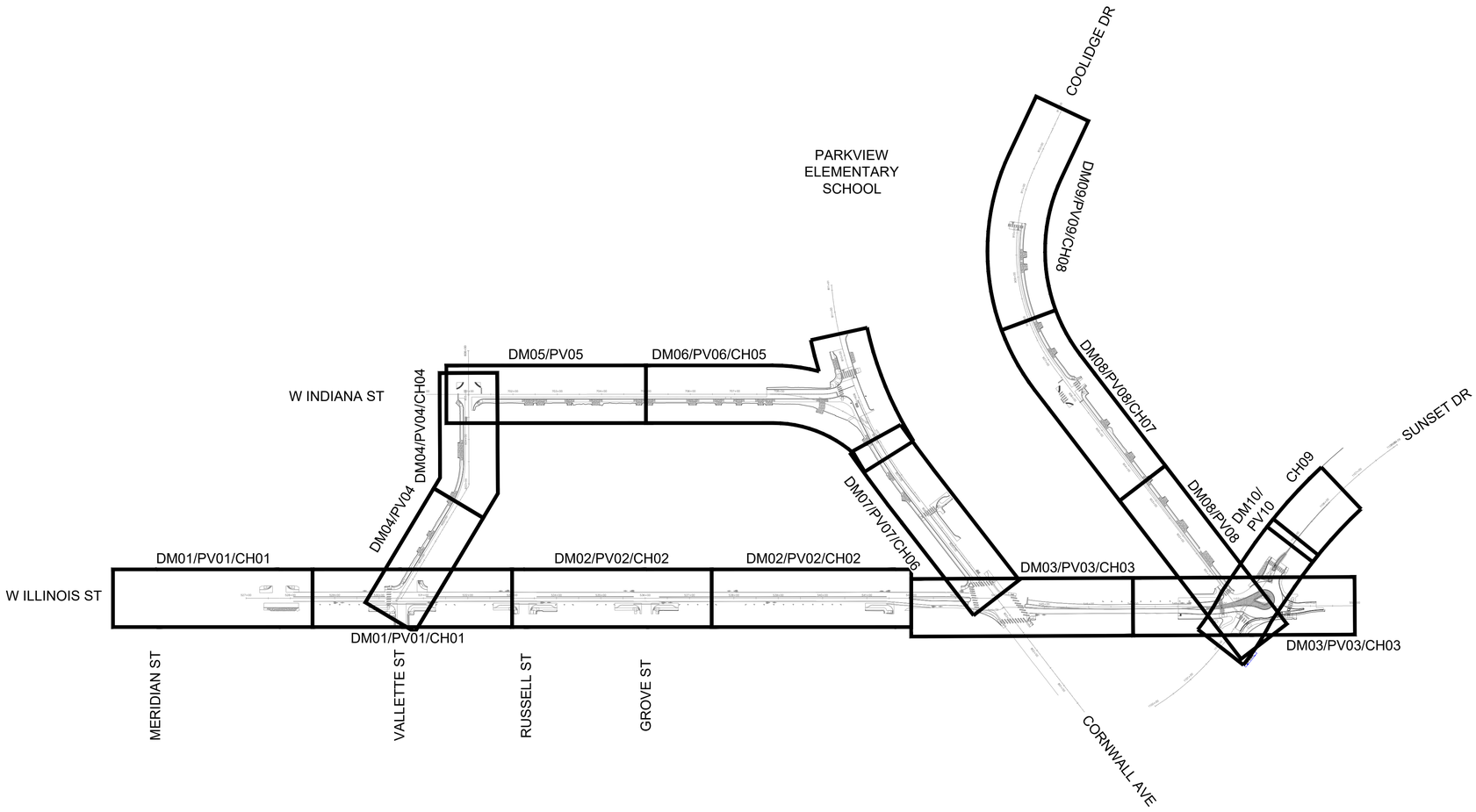

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CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SHEET MAP

SHEET 05 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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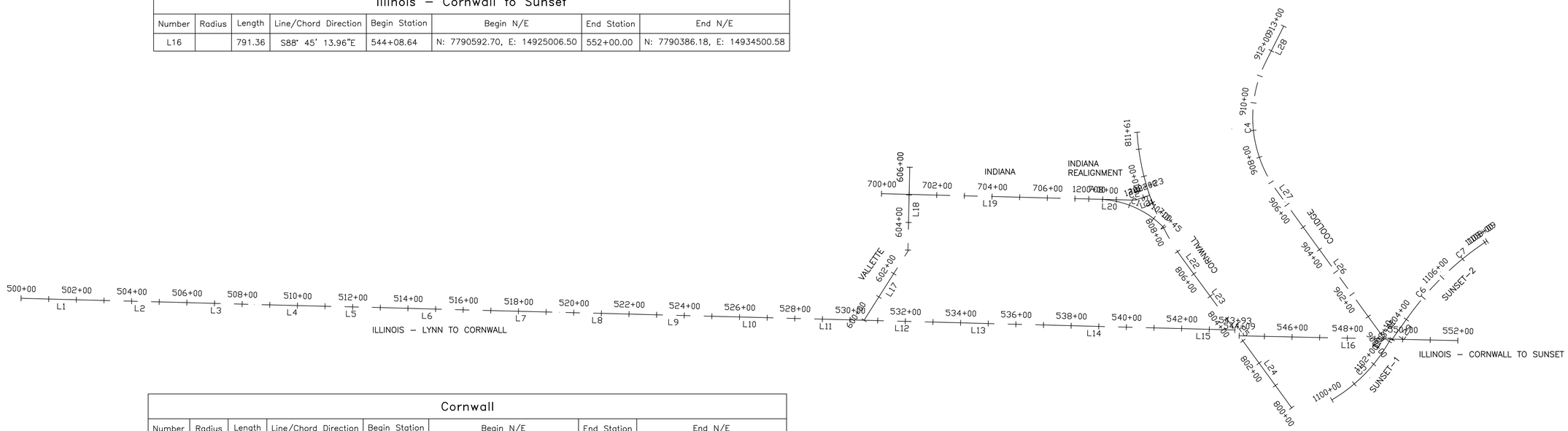
Illinois– Lynn to Cornwall							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L1		292.02	S88° 31' 20.67"E	500+00.00	N: 7792219.58, E: 14872127.36	502+92.02	N: 7792129.22, E: 14875630.43
L2		275.99	S88° 30' 41.47"E	502+92.02	N: 7792129.22, E: 14875630.43	505+68.01	N: 7792043.20, E: 14878941.14
L3		276.06	S88° 27' 36.85"E	505+68.01	N: 7792043.20, E: 14878941.14	508+44.07	N: 7791954.18, E: 14882252.70
L4		275.66	S88° 32' 10.17"E	508+44.07	N: 7791954.18, E: 14882252.70	511+19.73	N: 7791869.68, E: 14885559.53
L5		148.84	S88° 39' 35.43"E	511+19.73	N: 7791869.68, E: 14885559.53	512+68.56	N: 7791827.90, E: 14887345.08
L6		402.67	S88° 26' 47.93"E	512+68.56	N: 7791827.90, E: 14887345.08	516+71.23	N: 7791696.92, E: 14892175.34
L7		276.36	S88° 32' 51.48"E	516+71.23	N: 7791696.92, E: 14892175.34	519+47.59	N: 7791612.86, E: 14895490.56
L8		275.78	S88° 31' 51.61"E	519+47.59	N: 7791612.86, E: 14895490.56	522+23.37	N: 7791528.02, E: 14898798.88
L9		275.20	S88° 30' 28.25"E	522+23.37	N: 7791528.02, E: 14898798.88	524+98.57	N: 7791442.03, E: 14902100.15
L10		276.04	S88° 29' 07.79"E	524+98.57	N: 7791442.03, E: 14902100.15	527+74.62	N: 7791354.48, E: 14905411.50
L11		275.98	S88° 29' 39.39"E	527+74.62	N: 7791354.48, E: 14905411.50	530+50.60	N: 7791267.46, E: 14908722.17
L12		275.99	S88° 29' 16.40"E	530+50.60	N: 7791267.46, E: 14908722.17	533+26.59	N: 7791180.06, E: 14912032.94
L13		276.12	S88° 29' 08.43"E	533+26.59	N: 7791180.06, E: 14912032.94	536+02.71	N: 7791092.50, E: 14915345.23
L14		561.99	S88° 29' 46.82"E	536+02.71	N: 7791092.50, E: 14915345.23	541+64.70	N: 7790915.53, E: 14922086.75
L15		228.08	S88° 29' 17.16"E	541+64.70	N: 7790915.53, E: 14922086.75	543+92.78	N: 7790843.32, E: 14924822.73

Illinois – Cornwall to Sunset							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L16		791.36	S88° 45' 13.96"E	544+08.64	N: 7790592.70, E: 14925006.50	552+00.00	N: 7790386.18, E: 14934500.58

Vallette							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L17		295.93	N32° 24' 38.29"E	600+00.00	N: 7791267.46, E: 14908722.17	602+95.93	N: 7794265.42, E: 14910625.51
L18		304.12	N1° 16' 21.24"E	602+95.93	N: 7794265.42, E: 14910625.51	606+00.04	N: 7797913.92, E: 14910706.56

Indiana							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L19		786.68	S88° 31' 45.07"E	700+00.00	N: 7796765.04, E: 14909480.00	707+86.68	N: 7796522.73, E: 14918917.09
C1	340.00	258.28	S66° 46' 00.45"E				

Indiana Realignment							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L20		150.47	S88° 31' 45.07"E	1200+00.00	N: 7796534.03, E: 14918477.03	1201+50.47	N: 7796487.68, E: 14920282.12
C2	100.00	35.56	N81° 16' 58.17"E				
L21		36.67	N71° 05' 41.42"E	1201+86.04	N: 7796552.02, E: 14920701.72	1202+22.71	N: 7796694.60, E: 14921118.04



Cornwall							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L24		322.53	N36° 05' 14.52"W	800+00.00	N: 7787465.00, E: 14927286.21	803+22.53	N: 7790592.70, E: 14925006.50
L25		25.90	N36° 15' 07.14"W	803+22.53	N: 7790592.70, E: 14925006.50	803+48.43	N: 7790843.32, E: 14924822.73
L23		266.34	N36° 16' 43.19"W	803+48.43	N: 7790843.32, E: 14924822.73	806+14.77	N: 7793419.83, E: 14922931.57
L22		49.32	N36° 15' 46.54"W	806+14.77	N: 7793419.83, E: 14922931.57	806+64.09	N: 7793897.09, E: 14922581.47
C3	868.73	497.27	N19° 55' 33.43"W				

Coolidge							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L26		612.35	N35° 59' 53.24"W	900+00.00	N: 7790454.91, E: 14931314.14	906+12.35	N: 7796399.84, E: 14926995.19
L27		52.68	N35° 57' 29.76"W	906+12.35	N: 7796399.84, E: 14926995.19	906+65.03	N: 7796911.55, E: 14926623.98
C4	450.00	492.48	N4° 36' 21.00"W				
L28		142.49	N26° 44' 47.77"E	911+57.51	N: 7802512.66, E: 14926172.75	913+00.00	N: 7804039.58, E: 14926942.27

Sunset–1							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
C5	570.00	309.64	N43° 59' 56.48"E				

Sunset–2							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L29		98.13	N35° 34' 14.47"E	1103+12.50	N: 7790448.14, E: 14931652.07	1104+10.63	N: 7791406.00, E: 14932337.08
C6	1100.00	198.87	N40° 48' 12.57"E				
C7	1100.00	200.00	N51° 11' 29.02"E				

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ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
ALIGNMENT CONTROL

SHEET 06 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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CONTROL NOTES

1. HORIZONTAL DATUM:

   NAD 83/98 (USFt) – PER CITY OF BELLINGHAM CONTROL NETWORK

2. BASIS OF BEARINGS:

   NAD 83/98 (USFt) – PER CITY OF BELLINGHAM CONTROL NETWORK

3. VERTICAL DATUM:

   NAVD 88 – PER CITY OF BELLINGHAM CONTROL NETWORK

   REFERENCE BENCHMARKS:

   CITY OF BELLINGHAM MONUMENT No. 5181
   RR SPIKE ON THE EAST SIDE OF THE UTILITY POLE AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF WEST ILLINOIS AND ELM
   ELEV = 83.22' (USFt)

   CITY OF BELLINGHAM MONUMENT No. 5172
   TOP OF SOUTHERLY BOLT
   BASE OF TRAFFIC SIGNAL POLE
   NORTHEAST INTERSECTION QUADRANT OF W. ILLINOIS AND CORNWALL
   ELEV: 125.65' (USFt)

   CITY OF BELLINGHAM MONUMENT No. 5843
   2" BRASS DISK TOP OF CURB
   SOUTHEAST INTERSECTION QUADRANT OF W. ILLINOIS AND WALNUT
   ELEV: 81.24 (USFt)

SURVEY NOTES

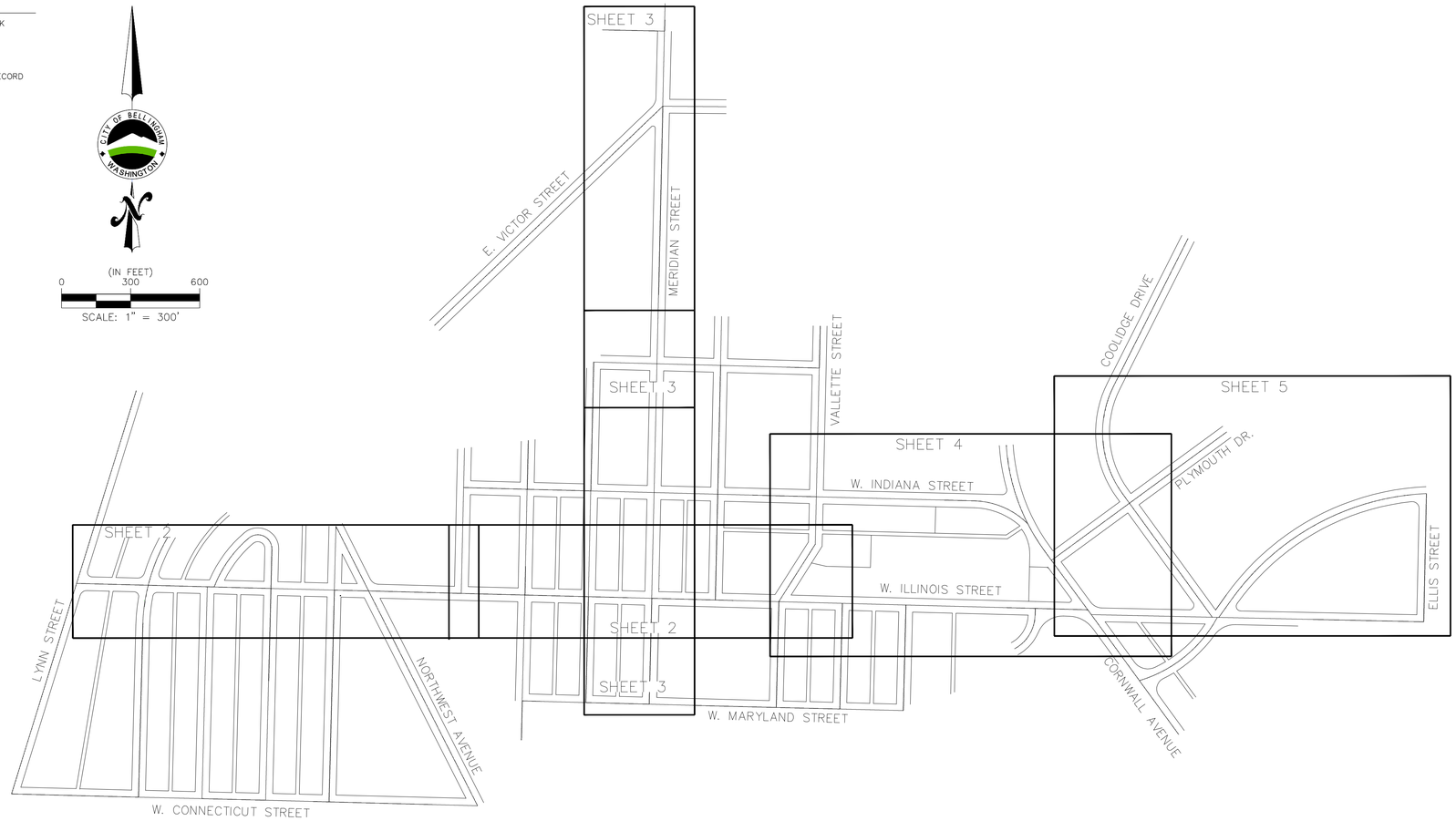
(PER WAC 332-130-145)

1. THIS CONTROL SHEET IS IN SUPPORT OF A TOPOGRAPHIC SURVEY PERFORMED BETWEEN APRIL AND MAY OF 2022. ALL MONUMENTS SHOWN HEREON WERE VISITED DURING THE COURSE OF THIS SURVEY, UNLESS OTHERWISE NOTED.
2. ANGULAR AND LINEAR CONTROL MEASUREMENTS WERE MADE USING A COMBINATION OF GPS AND CONVENTIONAL METHODS. PRIMARY CONTROL DATA WERE OBSERVED USING SURVEY GRADE CARLSON BRx6+ GPS RECEIVERS AND GEOMAX CR2+ 2 SECOND ROBOTIC TOTAL STATION. TOPOGRAPHIC DATA WAS COLLECTED USING A TRIMBLE MX50 MOBILE MAPPING LASER SCANNER WITH ADDITIONAL DATA COLLECTED USING CONVENTIONAL METHODS.
3. ELEVATIONS SHOWN HEREON WERE DERIVED FROM DIFFERENTIAL LEVELING USING A LEICA DIGITAL LEVEL DNA10.
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-090.
5. BASED UPON FIELD FINDINGS,THIS SURVEY HELD CITY OF BELLINGHAM PUBLISHED VALUES FOR HORIZONTAL AND VERTICAL CONTROL, UNLESS OTHERWISE NOTED.
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. NO ATTEMPT HAS BEEN MADE TO DETERMINE THE EXISTENCE OR LOCATION OF ANY EASEMENTS WHICH MAY SERVE OR ENCUMBER SUBJECT PROPERTY.
7. BOUNDARIES DEPICTED HEREON ARE BASED UPON ASSESSOR AND GIS DATA. NO ATTEMPT HAS BEEN MADE BY THIS SURVEY TO VERIFY THE ACCURACY OF SAID RECORDS.
8. ALL BEARINGS SHOWN ARE CALCULATED VALUES DERIVED FROM RECORD DOCUMENTS IN RELATION TO FOUND MONUMENTS.

LEGEND

- ⊙ 2" SURFACE BRASS DISK
- ◎ ENCASED MONUMENT
- ◕ VERTICAL CONTROL
- △ L.S.A. CONTROL POINT
- ▲ COB MONUMENT PER RECORD
- COB CITY OF BELLINGHAM
- (H) HELD
- (M) MEASURED
- (C) CALCULATED

(IN FEET)
0 300 600
SCALE: 1" = 300'



VERTICAL CONTROL POINT TABLE

COB #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5172	649248.50	1243758.26	125.65	BM TRAF. SIGNAL BOLT
5181	649320.95	1241265.39	83.22	BM R/R SPIKE
5843	649298.34	1240489.91	81.24	BM 2" BRASS DISK

LSA SURVEY CONTROL TABLE

LSA #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	649340.94	1240560.93	81.22	MAG NAIL SHINER LVL
2	649276.62	1241309.83	83.04	MAG NAIL SHINER LVL
3	649321.82	1241544.87	82.81	MAG NAIL SHINER LVL
4	649310.61	1241874.71	0.00	MAG NAIL SHINER
5	649341.57	1241818.21	0.00	MAG NAIL SHINER
6	649219.13	1241873.23	0.00	MAG NAIL SHINER
7	649300.49	1242391.73	0.00	MAG NAIL SHINE
8	649235.06	1242366.67	0.00	MAG NAIL
9	649249.31	1242443.74	0.00	MAG NAIL SHINER
10	649282.84	1242714.21	94.47	MAG NAIL SHINER LVL
11	649276.21	1242966.01	102.46	MAG NAIL SHINER LVL
12	649219.50	1243538.75	120.36	MAG NAIL SHINER LVL
13	649263.54	1243666.36	124.28	MAG NAIL SHINER LVL
14	649187.72	1243730.48	0.00	MAG NAIL SHINER
15	649194.15	1243819.22	0.00	MAG NAIL SHINER
16	649223.61	1244369.99	0.00	MAG NAIL SHINER
17	649238.08	1244229.18	0.00	MAG NAIL SHINER
18	649403.84	1244433.11	0.00	MAG NAIL SHINER
19	649667.05	1243920.37	137.74	MAG NAIL SHINER LVL

RIGHT-OF-WAY CONTROL TABLE

COB #	NORTHING	EASTING	ELEVATION	DESCRIPTION
311	650208.70	1243847.38	144.08	2"BRASS DISK
345	649710.28	1243243.17	117.31	2" BRASS DISK
402	648805.90	1242658.10	95.10	C-BDS COB 402
620	648694.77	1244130.49	0.00	C-BDS COB 620
622	649216.06	1243750.54	124.90	2" BRASS DISK
623	649451.68	1243577.67	126.46	2" BRASS DISK
624	649492.00	1243548.10	126.36	2" BRASS DISK
652	648402.38	1240440.04	0.00	2" BRASS DISK
653	648409.60	1240164.87	0.00	2' BRASS DISK
654	648416.41	1239888.64	0.00	2" BRASS DISK
655	648422.85	1239612.43	0.00	2" BRASS DISK
657	648436.92	1239061.31	78.05	ENCASED CONC. MON.
668	649740.40	1243886.95	137.60	2" BRASS DISK
725	649742.02	1245205.77	0.00	2" BRASS DISK
726	649184.72	1245194.08	0.00	2" BRASS DISK
857	649351.63	1239343.95	75.62	ENCASED CONC. MON.
858	649308.08	1241014.61	0.00	MON NOT FOUND
859	649301.07	1241290.88	82.33	ENCASED CONC. MON.
862	649294.00	1241566.59	82.71	ENCASED CONC. MON.
863	649279.54	1242117.63	82.50	ENCASED CONC. MON.
864	649272.29	1242393.53	84.32	ENCASED CONC. MON.
865	649265.00	1242669.41	92.64	ENCASED CONC. MON.

RIGHT-OF-WAY CONTROL TABLE

COB #	NORTHING	EASTING	ELEVATION	DESCRIPTION
866	649257.71	1242945.44	101.75	2" BRASS DISK"
867	649322.47	1240463.29	80.70	ENCASED CONC. MON.
868	649329.52	1240187.72	79.57	ENCASED CONC. MON.
871	649336.93	1239911.76	78.10	ENCASED CONC. MON.
872	649344.10	1239635.87	76.82	ENCASED CONC. MON.
876	649727.98	1242556.70	86.67	2" BRASS DISK
877	649746.31	1241852.09	0.00	2" BRASS DISK
1002	650189.57	1239603.07	0.00	2"BRASS DISK
1011	649501.20	1240191.83	80.78	2" BRASS DISK
1021	649739.09	1242127.91	88.05	2" BRASS DISK
1045	650305.92	1241864.57	87.84	2" BRASS DISK
1046	651751.06	1241897.00	0.00	COB MON REC. ONLY
1058	648799.14	1242933.96	0.00	2" BRASS DISK
1059	648812.60	1242382.16	0.00	2" BRASS DISK
1061	648833.79	1241555.06	0.00	2" BRASS DISK
1062	648841.30	1241279.17	0.00	ENCASED CONC. MON.
1158	649318.99	1240612.09	81.82	2" BRASS DISK
1159	648385.57	1241085.36	0.00	2" BRASS DISK
1164	648826.98	1241830.42	0.00	2" BRAS DISK
1165	649228.39	1241840.38	0.00	2" BRASS DISK
1166	649286.84	1241841.68	0.00	2" BRASS DISK
1169	651424.76	1241889.61	0.00	2" BR ASS DISK

RIGHT-OF-WAY CONTROL TABLE

COB #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1203	650298.63	1242140.54	0.00	COB MON REC. ONLY
1204	651422.69	1242165.57	0.00	2" BRASS DISK
1212	649699.99	1243916.27	0.00	MON NOT FOUND
1213	650009.88	1244339.22	0.00	2" BRASS DISK
1221	650305.91	1241864.59	0.00	2" BRASS DISK
1284	649283.84	1244361.45	0.00	2" BRASS DISK
1346	650472.15	1240898.24	0.00	COB MON REC. ONLY
1348	649595.68	1239766.80	0.00	2" BRASS DISK
1356	649169.94	1239631.38	0.00	2" BRASS DISJ
1357	649522.12	1242552.13	84.56	2" BRASS DISK
1359	650287.27	1242569.19	0.00	2" BRASS DISK
1398	649203.99	1244304.32	0.00	2" BRASS DISK
1430	649204.58	1244276.18	138.35	2" BRASS DISK
2014	649599.58	1240470.40	0.00	2" BRASS DISK
2029	649739.14	1242127.93	0.00	2" BRASS DISK
2400	649753.39	1241576.87	0.00	2" BRASS DISK
2954	650313.13	1241589.48	0.00	COB MON REC ONLY
2955	649768.21	1241024.90	0.00	2" BRASS DISK
2956	649760.38	1241300.57	0.00	2" BRASS DISK
4456	649242.96	1243507.23	119.60	2" BRASS DISK"
4494	650850.38	1244170.76	0.00	COB MON REC. ONLY
5093	649237.01	1243735.24	124.75	2" BRASS DISK

90% SUBMITTAL

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STEFAN LAUER — STATE OF WASHINGTON — 41035 — REGISTERED PROFESSIONAL LAND SURVEYOR

LARRY STEELE & ASSOCIATES LAND SURVEYORS
SUITE 1
1334 KING ST.
360-676-9350 BELLINGHAM, WA 98229

SRV01

Date	No	Revision	By
	4		
	3		
	2		
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PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

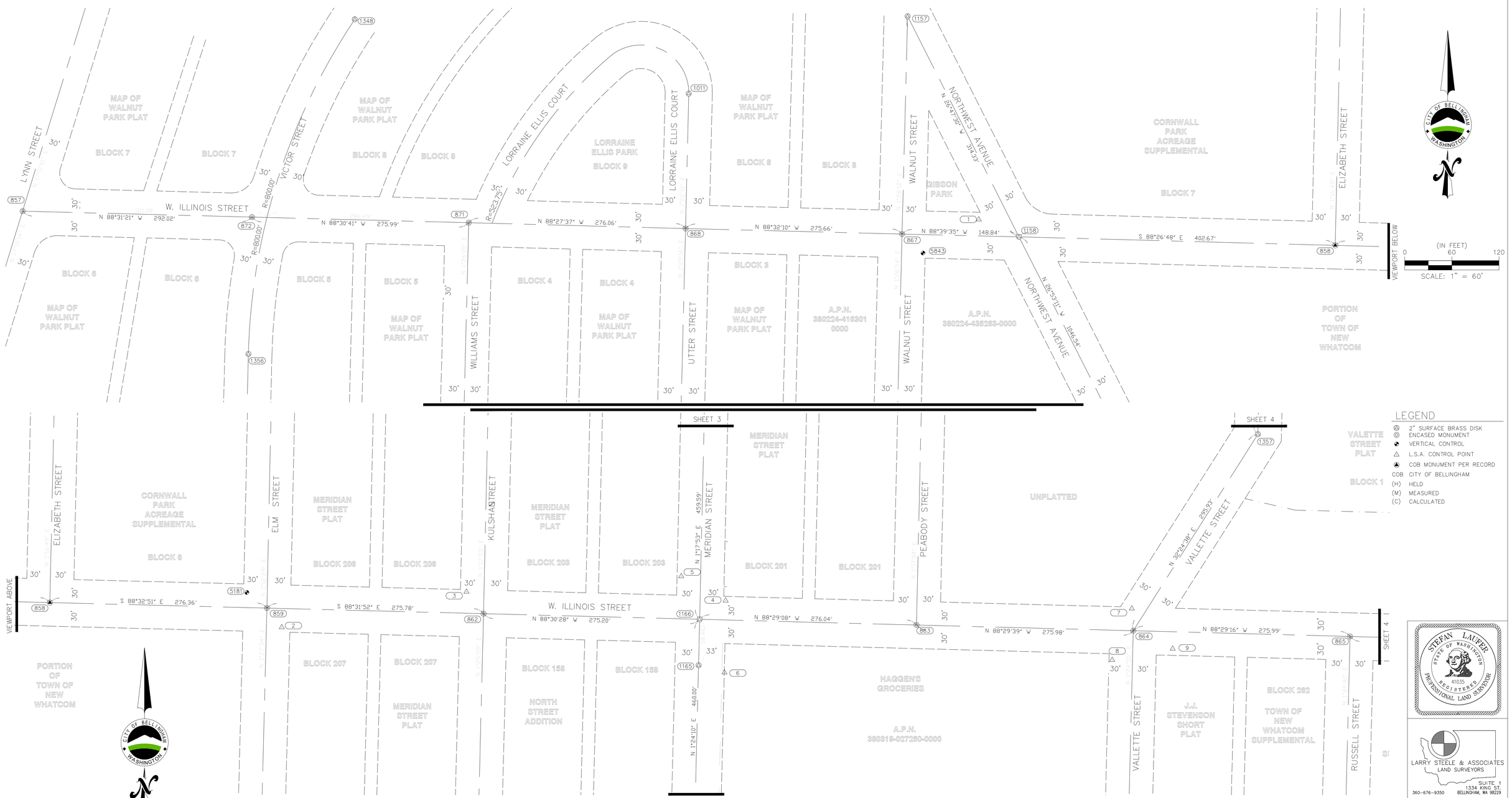
Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SURVEY CONTROL SHEET 1

SHEET 07 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-SURVEY-CONTROL.DWG



LEGEND

- 2" SURFACE BRASS DISK
- ENCASED MONUMENT
- VERTICAL CONTROL
- L.S.A. CONTROL POINT
- COB MONUMENT PER RECORD
- COB CITY OF BELLINGHAM
- (H) HELD
- (M) MEASURED
- (C) CALCULATED

90% SUBMITTAL

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360-676-9350 BELLINGHAM, WA 98229

SRV02

Date	No	Revision	By
	4		
	3		
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SURVEY CONTROL SHEET 2

SHEET 08 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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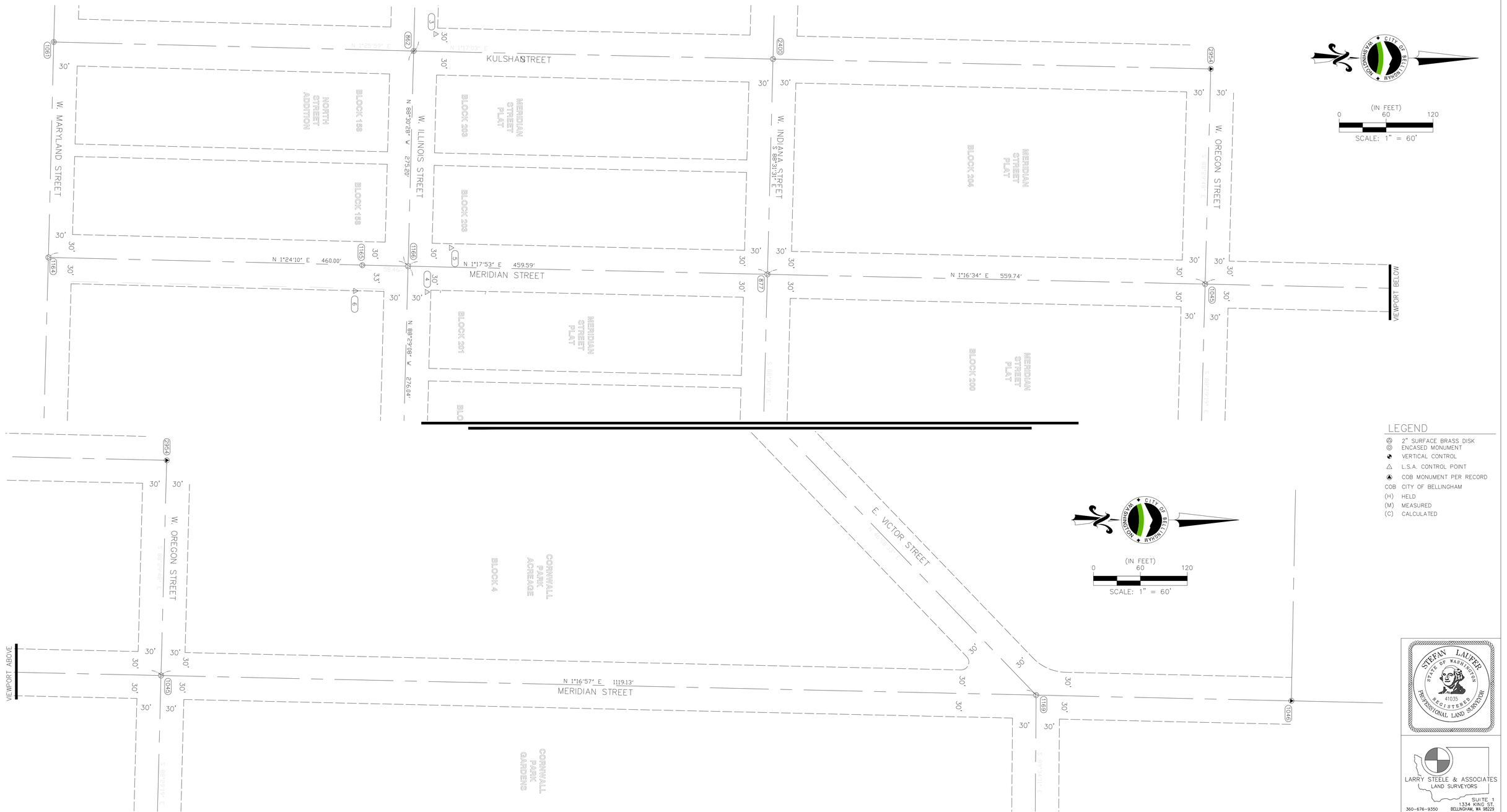

LEGEND

- 2" SURFACE BRASS DISK
- ENCASED MONUMENT
- VERTICAL CONTROL
- L.S.A. CONTROL POINT
- COB MONUMENT PER RECORD

COB CITY OF BELLINGHAM
(H) HELD
(M) MEASURED
(C) CALCULATED

STEFAN LAUFER — STATE OF WASHINGTON — 41035 — REGISTERED PROFESSIONAL LAND SURVEYOR

LARRY STEELE & ASSOCIATES
LAND SURVEYORS
SUITE 1
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360-676-9350 BELLINGHAM, WA 98229

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SRV03

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Date	No	Revision	By

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SURVEY CONTROL SHEET 3

SHEET 09 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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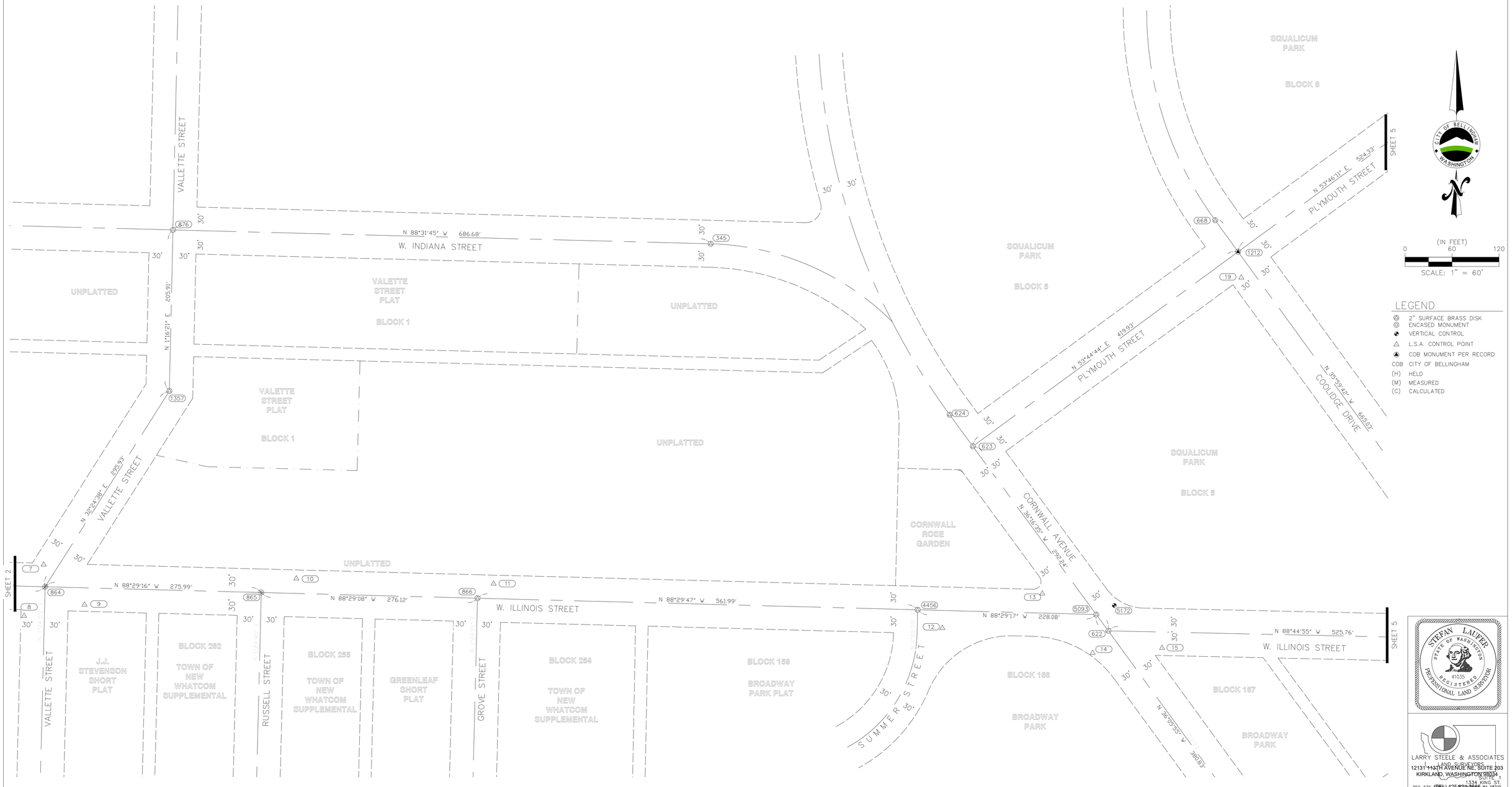

LEGEND

- 2" SURFACE BRASS DISK
- ENCASED MONUMENT
- VERTICAL CONTROL
- L.S.A. CONTROL POINT
- COB MONUMENT PER RECORD
- COB CITY OF BELLINGHAM
- (H) HELD
- (M) MEASURED
- (C) CALCULATED

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LARRY STEELE & ASSOCIATES
LAND SURVEYORS
12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3448
(FAX) 425 825-8434
SUITE 1
1334 KING ST.
360-676-6760 BELLINGHAM, WA 98229

SRV04

4			
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Date	No	Revision	By

PROJECT ENGINEER BAS
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SURVEY CONTROL SHEET 4

SHEET 10 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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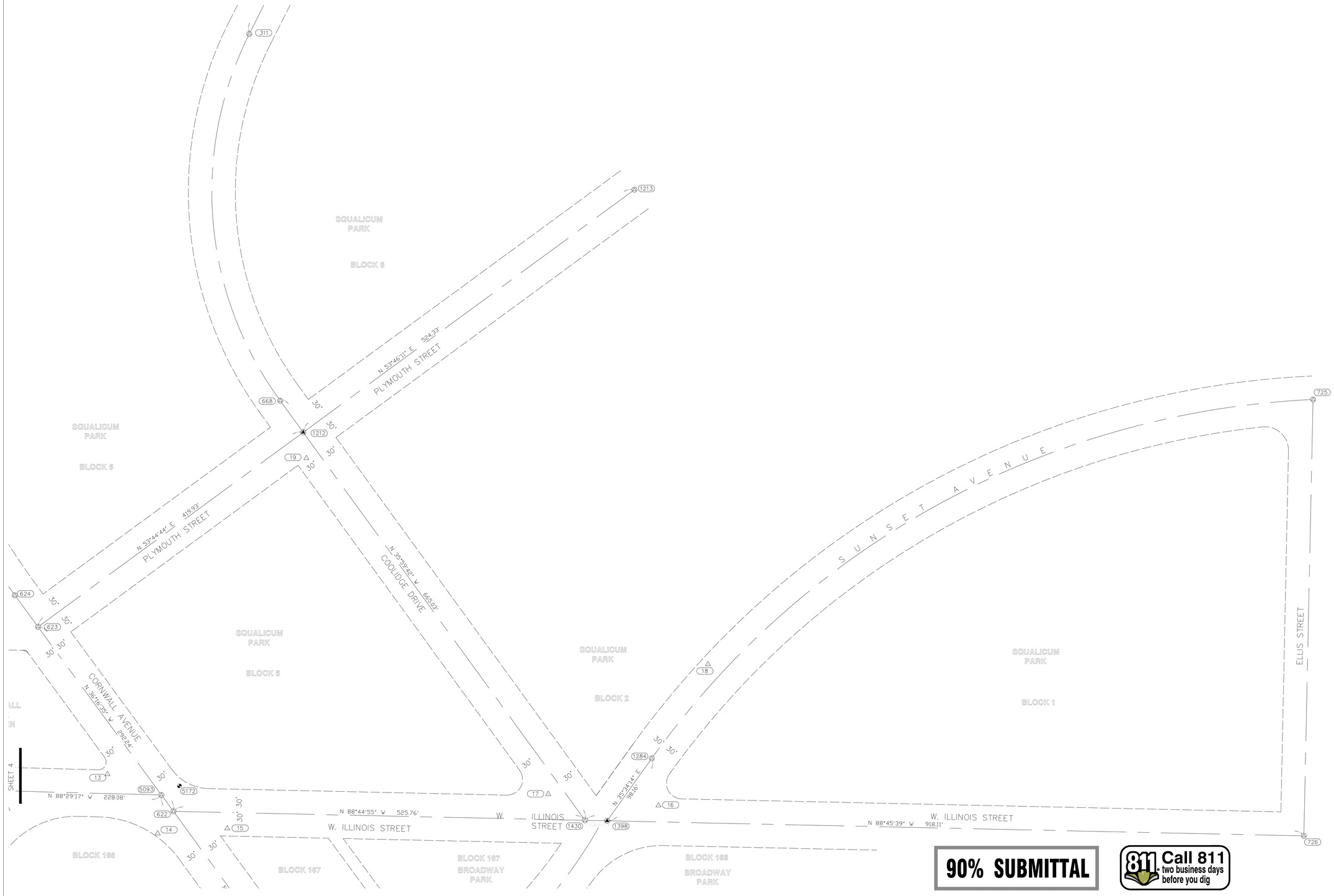

CITY OF BELLINGHAM WASHINGTON

(IN FEET)
0 60 120
SCALE: 1" = 60'

LEGEND

- 2" SURFACE BRASS DISK
- ENCASED MONUMENT
- VERTICAL CONTROL
- L.S.A. CONTROL POINT
- COB MONUMENT PER RECORD

COB CITY OF BELLINGHAM
(H) HELD
(M) MEASURED
(C) CALCULATED

90% SUBMITTAL

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STEFAN LAUER STATE OF WASHINGTON 41035 REGISTERED PROFESSIONAL LAND SURVEYOR

LARRY STEELE & ASSOCIATES
LAND SURVEYORS
12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034
SUITE 1
1334 KING ST.
360-676-6551 (FAX) 425 825-8434
(FAX) 425 825-8434 WA 98229

SRV05

Date	No	Revision	By
	4		
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PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
SURVEY CONTROL SHEET 5

SHEET 11 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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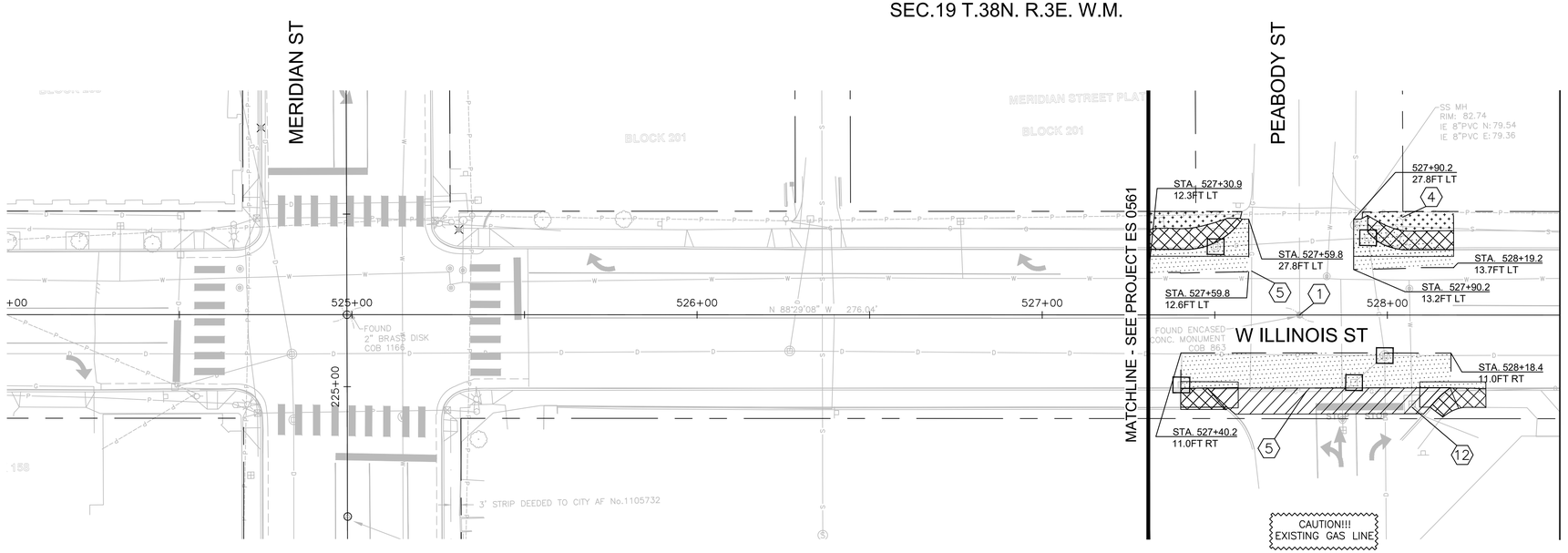
SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



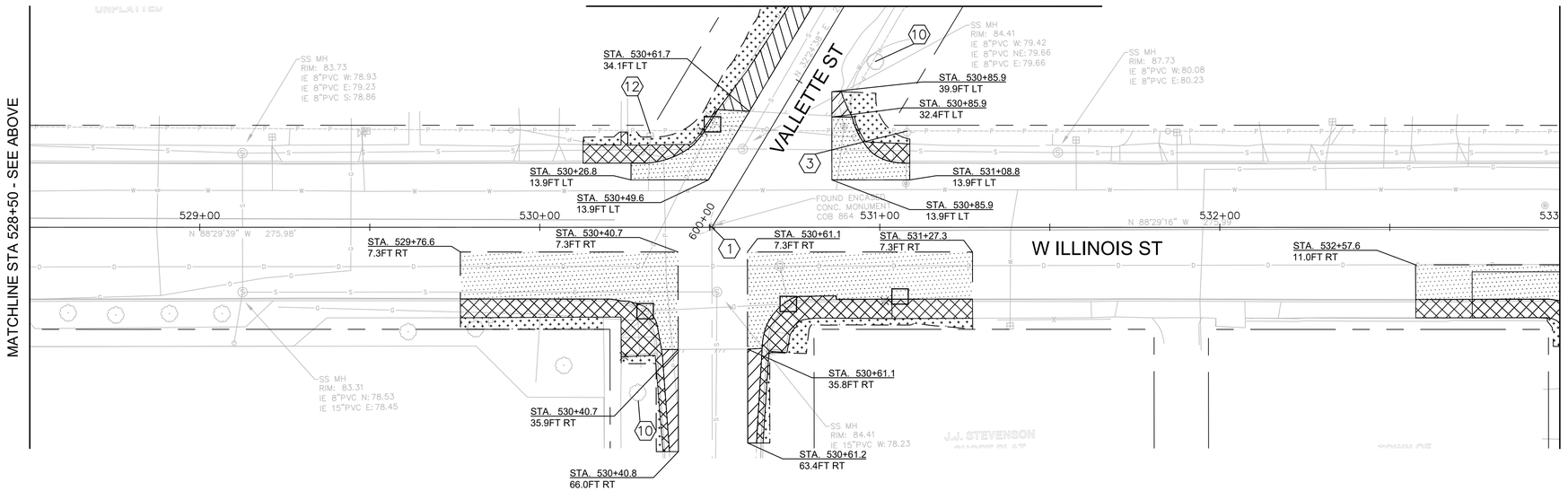
NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LG FOR LEGEND.
3. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS, WHICH INCLUDES PROPERTY CORNERS AND CITY BENCHMARKS DURING CONSTRUCTION. ALL CITY SURVEY MONUMENTS AND BENCHMARKS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A WASHINGTON STATE LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR.
4. SIGNS, UTILITIES, VEGETATION, & OTHER FEATURES NOT SPECIFICALLY IDENTIFIED FOR REMOVAL ON THE PLAN SHALL BE PROTECTED. DAMAGE TO PUBLIC OR PRIVATE ELEMENTS NOT IDENTIFIED FOR REMOVAL ON THE PLAN SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
5. SEE SHEETS PV01 - PV10 FOR PAVING DETAILS & DIMENSIONS NOT SHOWN HEREIN.
6. REMOVE CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE INDICATED.
7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

DEMOLITION CONSTRUCTION NOTES

1. CITY R/W SURVEY MONUMENT SHALL NOT BE DISTURBED/DESTROYED.
3. PROTECT EXISTING HYDRANT.
4. PROTECT EXISTING UTILITY POLE.
5. PROTECT EXISTING GAS LINE.
10. PROTECT EXISTING TREE.
12. PROTECT EXISTING WATER METER.

MATCHLINE 600+76 - SEE DM04



LEGEND

- EXISTING ROW
- SAWCUT LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- ROADWAY CONCRETE REMOVAL
- CLEAR AND GRUB
- GRAVEL REMOVAL
- INLET PROTECTION

PRELIMINARY — BRETT ADAM ASHTON — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER

transpogroup
WHAT TRANSPORTATION CAN BE.
12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3665
(FAX) 425 825-8434

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10 40 0 20 60

DM01

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

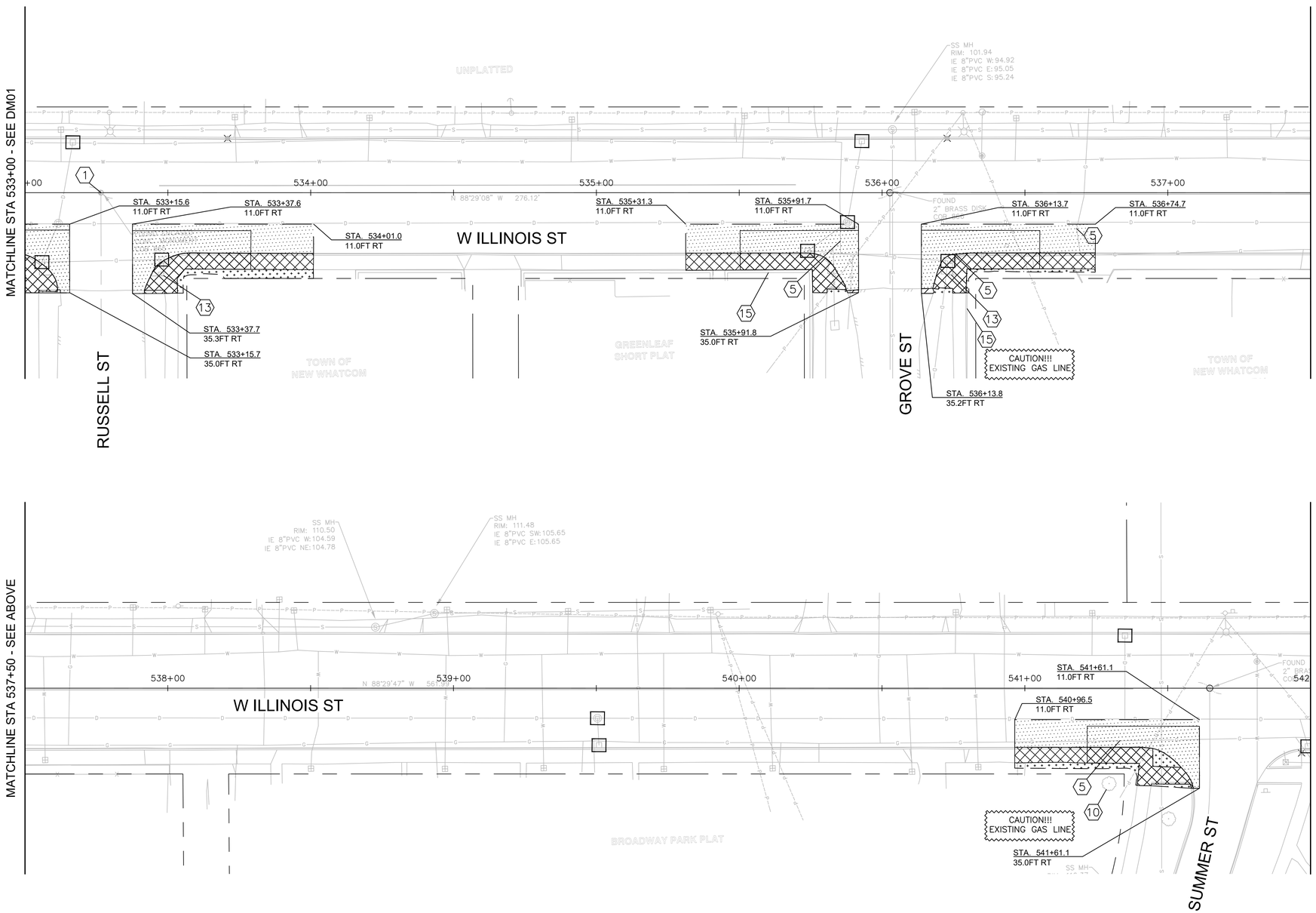
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - ILLINOIS

SHEET 12 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-DEMO-PLAN-ILLINOIS.DWG

SEC.19 T.38N. R.3E. W.M.



NOTES

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5. SEE SHEETS PV01 - PV10 FOR PAVING DETAILS & DIMENSIONS NOT SHOWN HEREIN.
6. REMOVE CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE INDICATED.
7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

DEMOLITION CONSTRUCTION NOTES

1. CITY R/W SURVEY MONUMENT SHALL NOT BE DISTURBED/DESTROYED.
5. PROTECT EXISTING GAS LINE.
10. PROTECT EXISTING TREE.
13. RELOCATE EXISTING SIGN.
15. PROTECT EXISTING RETAINING WALL.

LEGEND

- EXISTING ROW
- SAWCUT LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- ROADWAY CONCRETE REMOVAL
- CLEAR AND GRUB
- GRAVEL REMOVAL
- INLET PROTECTION

PRELIMINARY — BRETT ADAM ACKLEY — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER

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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - ILLINOIS

SHEET 13 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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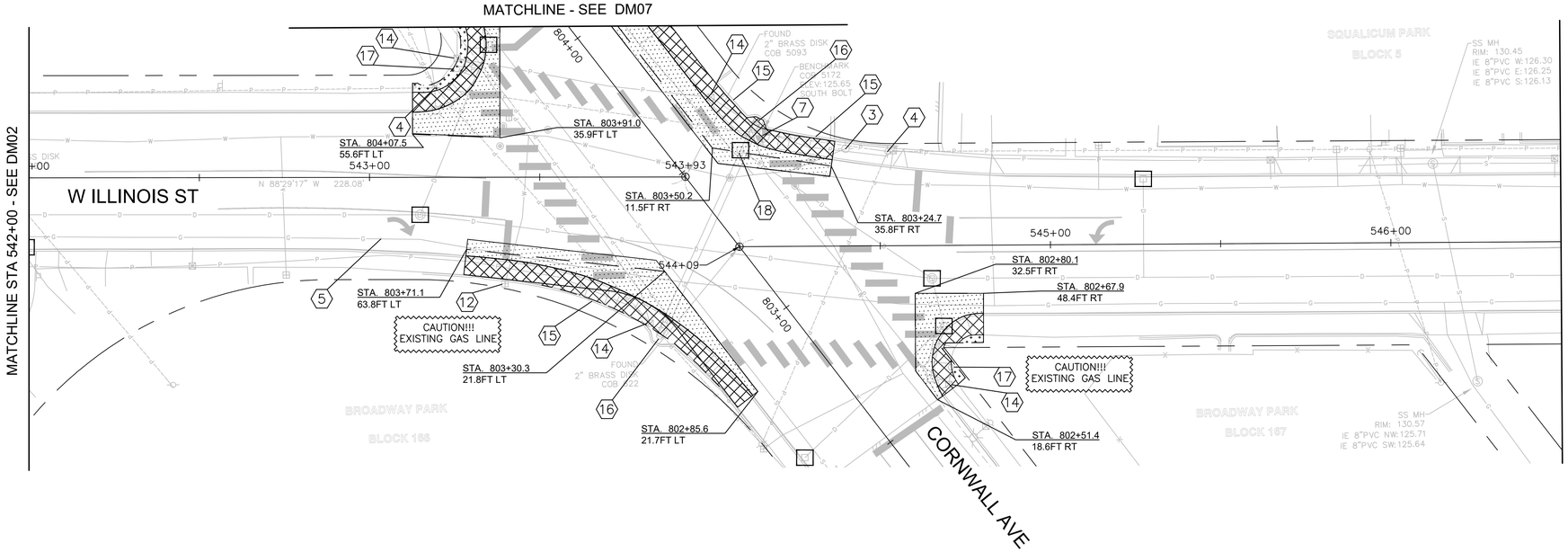

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LG FOR LEGEND.
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7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

DEMOLITION CONSTRUCTION NOTES

1. CITY R/W SURVEY MONUMENT SHALL NOT BE DISTURBED/DESTROYED.
3. PROTECT EXISTING HYDRANT.
4. PROTECT EXISTING UTILITY POLE.
5. PROTECT EXISTING GAS LINE.
7. REPLACE/RELOCATE BENCHMARK IN POWER POLE UNDER THE DIRECTION OF THE CITY SURVEYOR.
12. PROTECT EXISTING WATER METER.
13. RELOCATE EXISTING SIGN.
14. PROTECT EXISTING JUNCTION BOX.
15. PROTECT EXISTING RETAINING WALL.
16. PROTECT EXISTING SIGNAL AND FOUNDATION.
17. REPLACE EXISTING SIGNAL POLE, SEE SHEET SG02.
18. PROTECT EXISTING STORMWATER STRUCTURE.

LEGEND

EXISTING ROW

SAWCUT LINE

CONCRETE REMOVAL

ASPHALT REMOVAL

ROADWAY CONCRETE REMOVAL

CLEAR AND GRUB

GRAVEL REMOVAL

INLET PROTECTION

BRENT ADAM BRICKEY — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - ILLINOIS

SHEET 14 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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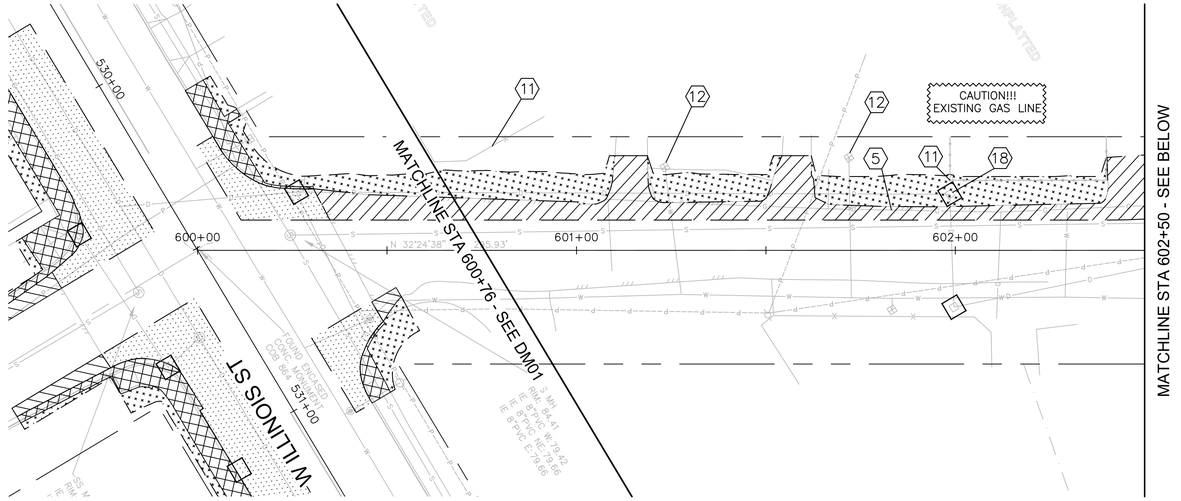

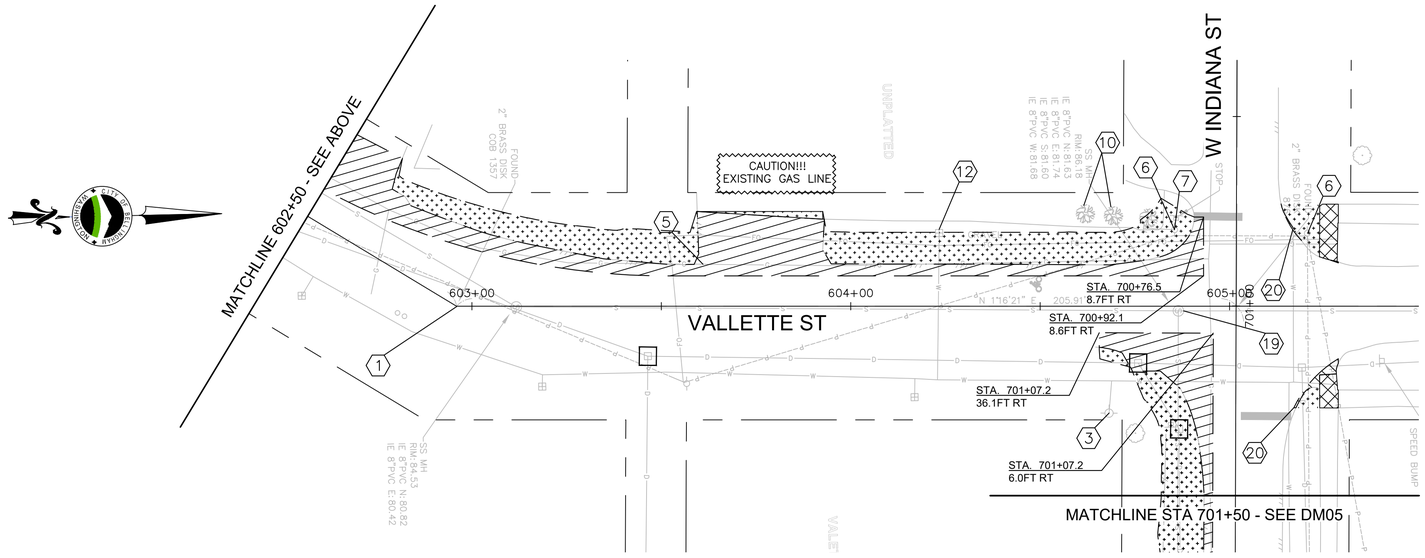

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DEMOLITION CONSTRUCTION NOTES

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5. PROTECT EXISTING GAS LINE.
6. RELOCATE EXISTING UTILITY POLE.
7. REPLACE/RELOCATE BENCHMARK IN POWER POLE UNDER THE DIRECTION OF CITY SURVEYOR.
10. PROTECT EXISTING TREE.
11. PROTECT EXISTING FENCE.
12. PROTECT EXISTING WATER METER.
19. PROTECT EXISTING SANITARY SEWER STRUCTURE.
20. REMOVE ASPHALT PAVEMENT CONSTRUCT NEW RAMP. SEE SHEET PV04.

LEGEND

EXISTING ROW

SAWCUT LINE

CONCRETE REMOVAL

ASPHALT REMOVAL

ROADWAY CONCRETE REMOVAL

CLEAR AND GRUB

GRAVEL REMOVAL

INLET PROTECTION

BRETT ADAM BERRY — STATE OF WASHINGTON — 22557 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - VALLETTE

SHEET 15 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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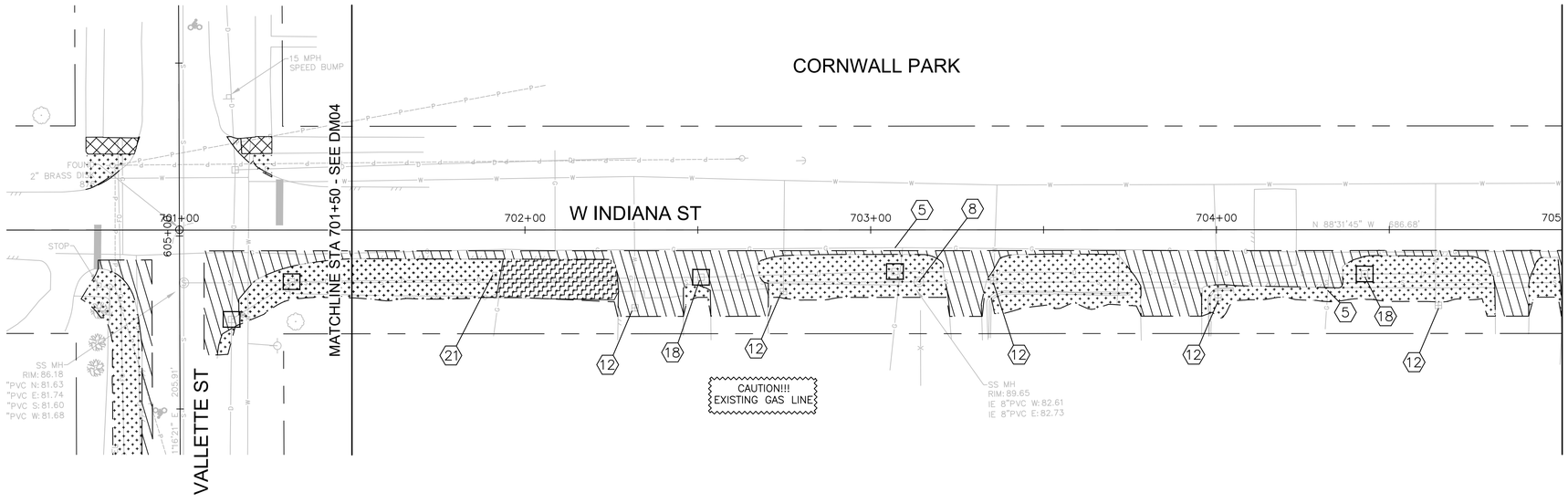

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DEMOLITION CONSTRUCTION NOTES

5 PROTECT EXISTING GAS LINE.

8 PROTECT EXISTING SANITARY SEWER. ADJUST STRUCTURES TO NEW GRADE.

12 PROTECT EXISTING WATER METER.

18 PROTECT EXISTING STORMWATER STRUCTURE.

21 PROTECT EXISTING SIGN.

LEGEND

EXISTING ROW

SAWCUT LINE

CONCRETE REMOVAL

ASPHALT REMOVAL

ROADWAY CONCRETE REMOVAL

CLEAR AND GRUB

GRAVEL REMOVAL

INLET PROTECTION

BRENT ADAM BLOCK — STATE OF WASHINGTON — 52551 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - INDIANA

SHEET 16 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES

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2. SEE LG FOR LEGEND.
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7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

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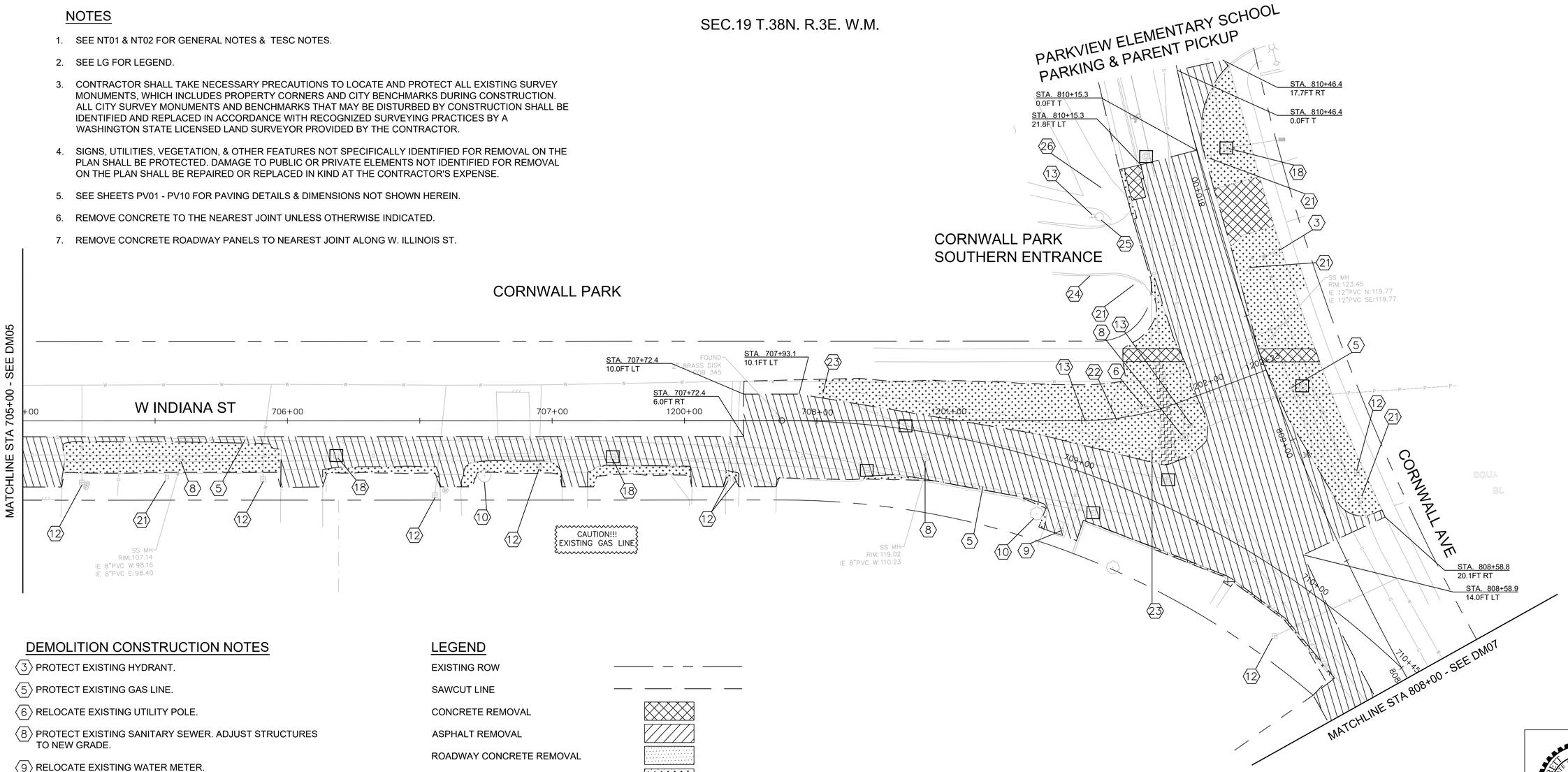

DEMOLITION CONSTRUCTION NOTES

3. PROTECT EXISTING HYDRANT.
5. PROTECT EXISTING GAS LINE.
6. RELOCATE EXISTING UTILITY POLE.
8. PROTECT EXISTING SANITARY SEWER. ADJUST STRUCTURES TO NEW GRADE.
9. RELOCATE EXISTING WATER METER.
10. PROTECT EXISTING TREE.
12. PROTECT EXISTING WATER METER.
13. RELOCATE EXISTING SIGN.
21. PROTECT EXISTING SIGN.
22. REMOVE EXISTING GUY WIRE AND ANCHOR.
23. REMOVE EXISTING ROCK AND BURIED PIPE END.
24. PROTECT EXISTING CURBING.
25. PROTECT EXISTING LANDSCAPING ROCK.
26. PROTECT EXISTING GRAVEL PATHWAY.

LEGEND

- EXISTING ROW
- SAWCUT LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- ROADWAY CONCRETE REMOVAL
- CLEAR AND GRUB
- GRAVEL REMOVAL
- INLET PROTECTION

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PRELIMINARY — BRETT ADAM BERRY, STATE OF WASHINGTON, 22557, REGISTERED PROFESSIONAL ENGINEER

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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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DATUM
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NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - INDIANA

SHEET 17 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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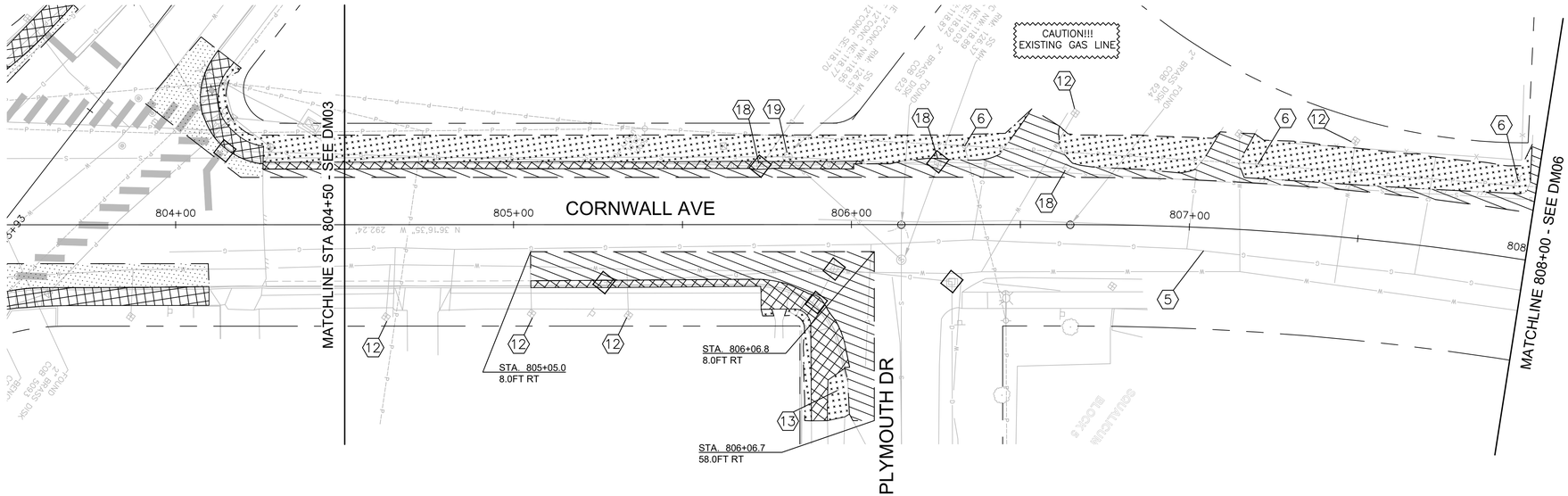

NOTES

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7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

DEMOLITION CONSTRUCTION NOTES

(5) PROTECT EXISTING GAS LINE.
(6) RELOCATE EXISTING UTILITY POLE.
(12) PROTECT EXISTING WATER METER.
(13) RELOCATE EXISTING SIGN.
(18) PROTECT EXISTING STORMWATER STRUCTURE.
(19) PROTECT EXISTING SANITARY SEWER STRUCTURE.

LEGEND

EXISTING ROW
SAWCUT LINE
CONCRETE REMOVAL
ASPHALT REMOVAL
ROADWAY CONCRETE REMOVAL
CLEAR AND GRUB
GRAVEL REMOVAL
INLET PROTECTION

ROBERT ADAM BROOKS — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DATUM
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NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - CORNWALL

SHEET 18 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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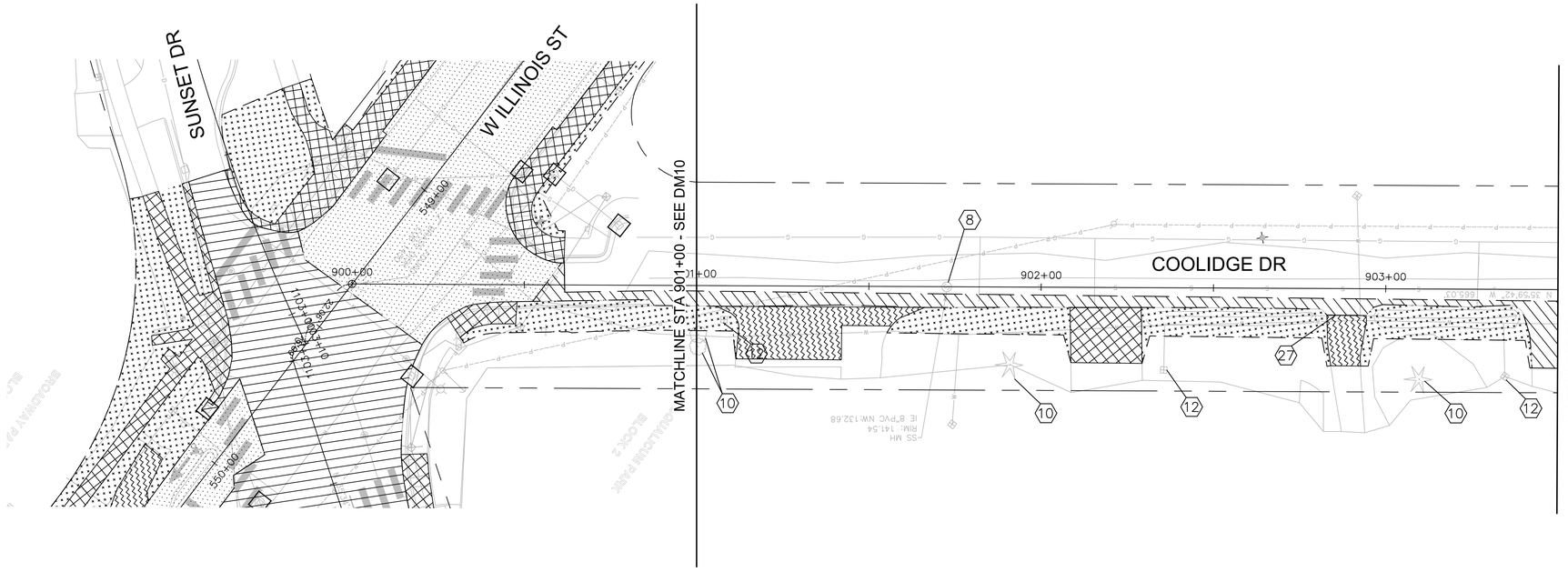

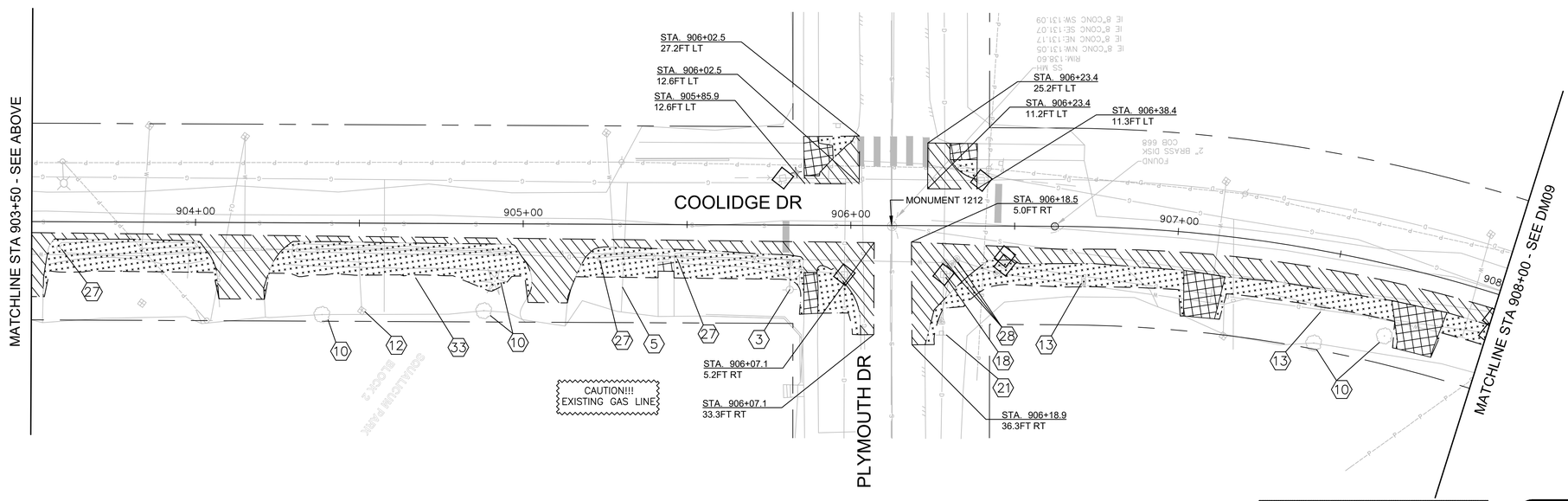

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DEMOLITION CONSTRUCTION NOTES

3 PROTECT EXISTING HYDRANT.

PROTECT EXISTING GAS LINE.

5 RELOCATE EXISTING UTILITY POLE.

10 PROTECT EXISTING TREE.

12 PROTECT EXISTING WATER METER.

13 RELOCATE EXISTING SIGN.

18 PROTECT EXISTING STORMWATER STRUCTURE.

27 REMOVE EXISTING CULVERT.

28 PROTECT EXISTING WATER STRUCTURE.

LEGEND

EXISTING ROW

SAWCUT LINE

CONCRETE REMOVAL

ASPHALT REMOVAL

ROADWAY CONCRETE REMOVAL

CLEAR AND GRUB

GRAVEL REMOVAL

INLET PROTECTION

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BRETT ADAM ANTHONY — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - COOLIDGE

SHEET 19 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-DEMO-PLAN-COOLIDGE.DWG

SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LG FOR LEGEND.
3. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS, WHICH INCLUDES PROPERTY CORNERS AND CITY BENCHMARKS DURING CONSTRUCTION. ALL CITY SURVEY MONUMENTS AND BENCHMARKS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A WASHINGTON STATE LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR.
4. SIGNS, UTILITIES, VEGETATION, & OTHER FEATURES NOT SPECIFICALLY IDENTIFIED FOR REMOVAL ON THE PLAN SHALL BE PROTECTED. DAMAGE TO PUBLIC OR PRIVATE ELEMENTS NOT IDENTIFIED FOR REMOVAL ON THE PLAN SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
5. SEE SHEETS PV01 - PV10 FOR PAVING DETAILS & DIMENSIONS NOT SHOWN HEREIN.
6. REMOVE CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE INDICATED.
7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.

DEMOLITION CONSTRUCTION NOTES

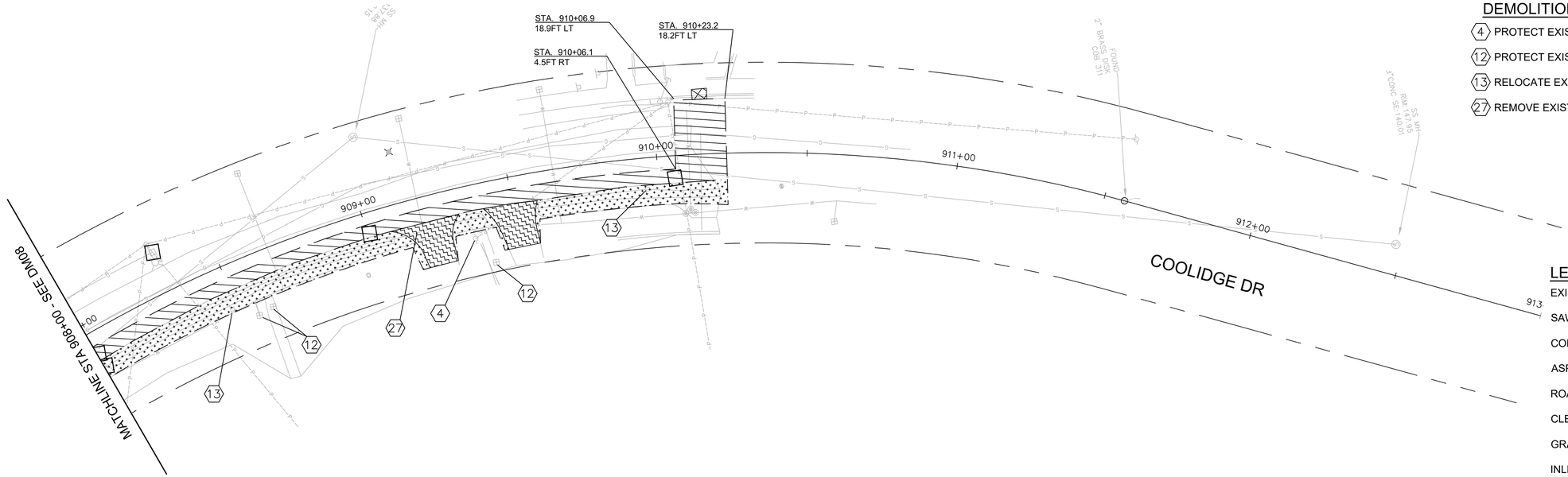
4 PROTECT EXISTING UTILITY POLE.

12 PROTECT EXISTING WATER METER.

13 RELOCATE EXISTING SIGN.

27 REMOVE EXISTING CULVERT.

PARKVIEW ELEMENTARY



LEGEND

- EXISTING ROW
- SAWCUT LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- ROADWAY CONCRETE REMOVAL
- CLEAR AND GRUB
- GRAVEL REMOVAL
- INLET PROTECTION

BRETT ADAM BERRY — STATE OF WASHINGTON — 22557 — REGISTERED PROFESSIONAL ENGINEER

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - COOLIDGE

SHEET 20 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

LEGEND

- EXISTING ROW
- SAWCUT LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- ROADWAY CONCRETE REMOVAL
- CLEAR AND GRUB
- GRAVEL REMOVAL
- INLET PROTECTION

NOTES

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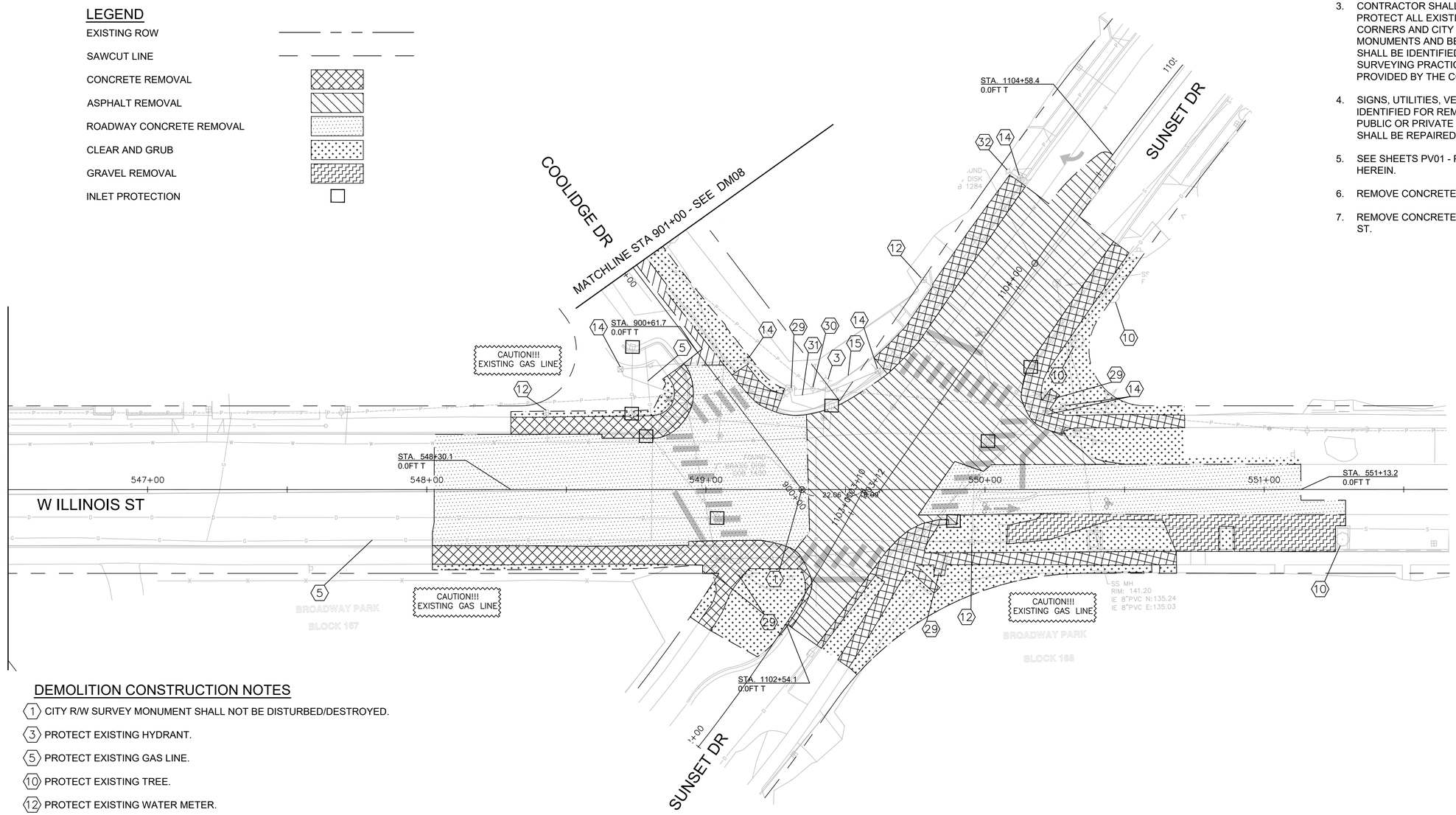
7. REMOVE CONCRETE ROADWAY PANELS TO NEAREST JOINT ALONG W. ILLINOIS ST.



DEMOLITION CONSTRUCTION NOTES

1. CITY R/W SURVEY MONUMENT SHALL NOT BE DISTURBED/DESTROYED.
3. PROTECT EXISTING HYDRANT.
5. PROTECT EXISTING GAS LINE.
10. PROTECT EXISTING TREE.
12. PROTECT EXISTING WATER METER.
14. PROTECT EXISTING JUNCTION BOX.
29. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL. SEE TRAFFIC CONTROL PLANS FOR FURTHER STAGING DETAILS.
30. PROTECT EXISTING UTILITY POLE AND GUY ANCHOR.
31. PROTECT EXISTING SIDEWALK.
32. PROTECT EXISTING STREET LIGHT POLE.
33. PROTECT EXISTING LANDSCAPING AND HEDGES.

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Job. No. ES-0560 / ES-0561
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Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
DEMOLITION & TESC PLAN - SUNSET

SHEET 21 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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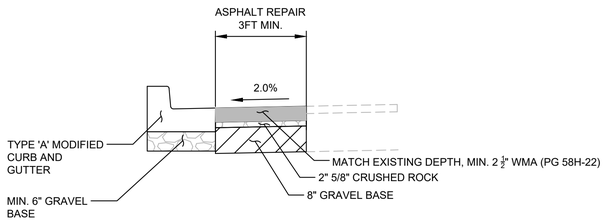
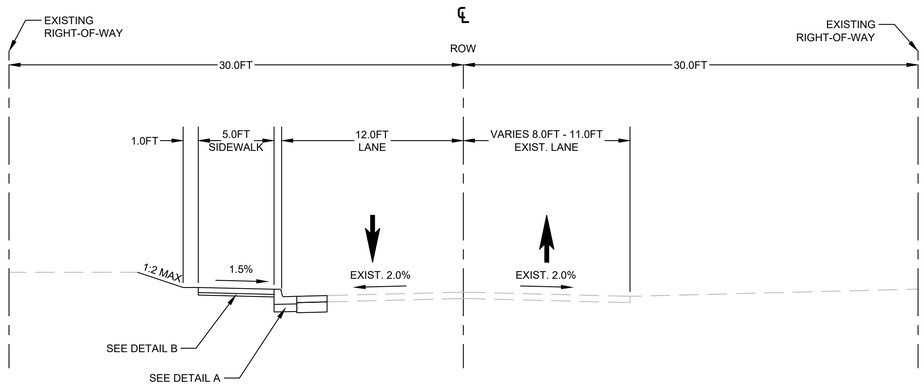


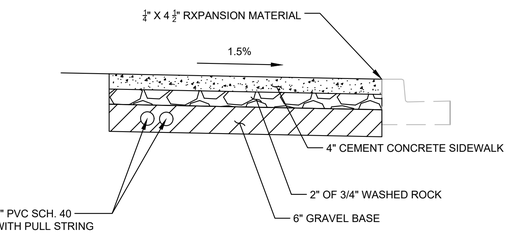
NOTES

1. TYPE A MODIFIED CURB & GUTTER PER CITY OF BELLINGHAM STANDARD DRAWING CG-200.
2. PAVEMENT REPAIR PER CITY OF BELLINGHAM STANDARD DRAWING CG-218.

DETAIL A
NTS



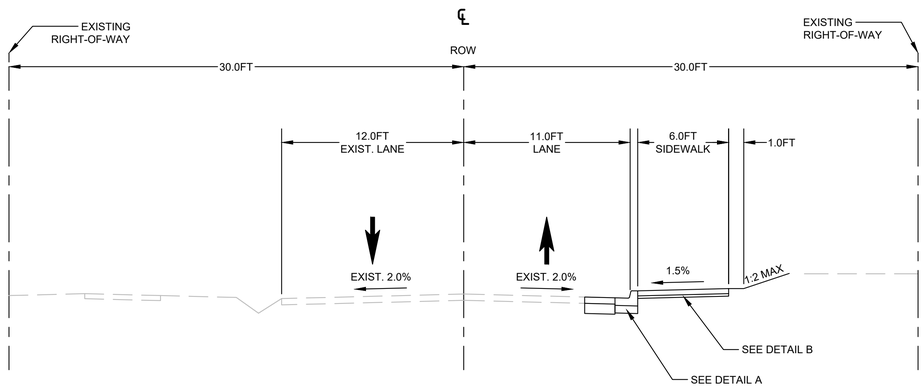
Ⓐ TYPICAL SECTION - VALLETTE ST
STA. 600+40 TO STA. 604+66
NTS



NOTES

1. CEMENT CONCRETE SIDEWALK PER CITY OF BELLINGHAM STANDARD DRAWING CG-230.
2. 2. SEE PAVING PLANS FOR LIMIT OF 3" PVC CONDUIT.

DETAIL B
NTS



Ⓑ TYPICAL SECTION - INDIANA ST
STA. 701+36 TO STA. 707+72
NTS

NOTES

1. SEE SHEET LG FOR LEGEND.
2. SEE SHEETS NT01 - NT02 FOR GENERAL NOTES.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS PV01 - PV09 FOR PAVING DETAILS.

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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TYPICAL ROADWAY SECTIONS

SHEET 22 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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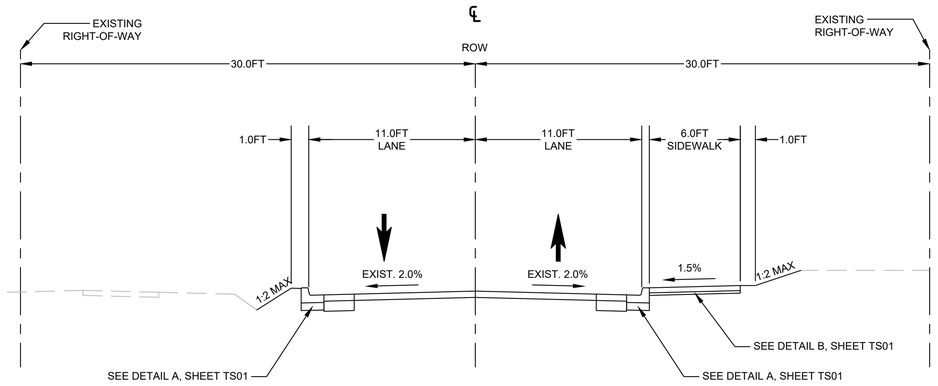
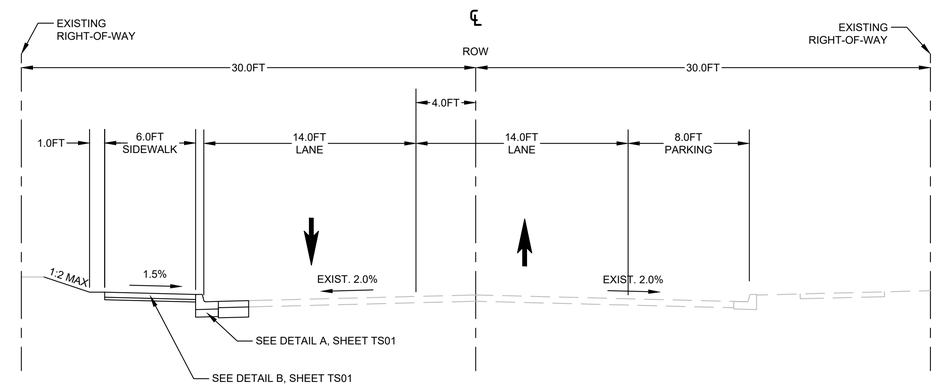


B

TYPICAL SECTION - INDIANA ST

STA. 1200+22 TO STA. 1200+76
NTS



C

TYPICAL SECTION - CORNWALL AVE

STA. 804+27 TO STA. 808+62
NTS

NOTES

1. SEE SHEET LG FOR LEGEND.
2. SEE SHEETS NT01 - NT02 FOR GENERAL NOTES.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS PV01 - PV09 FOR PAVING DETAILS.
5. SEE SHEET TS01 FOR TYPICAL SECTION DETAILS A & B.

BRETT ADAM ANTHONY
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

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Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TYPICAL ROADWAY SECTIONS

SHEET 23 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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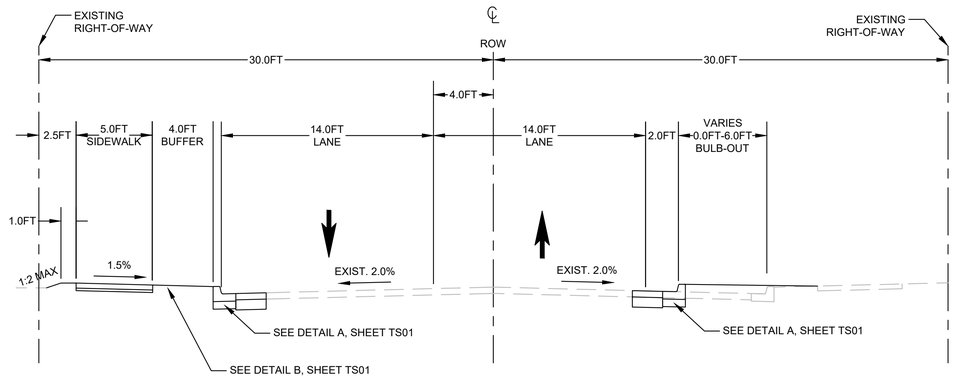
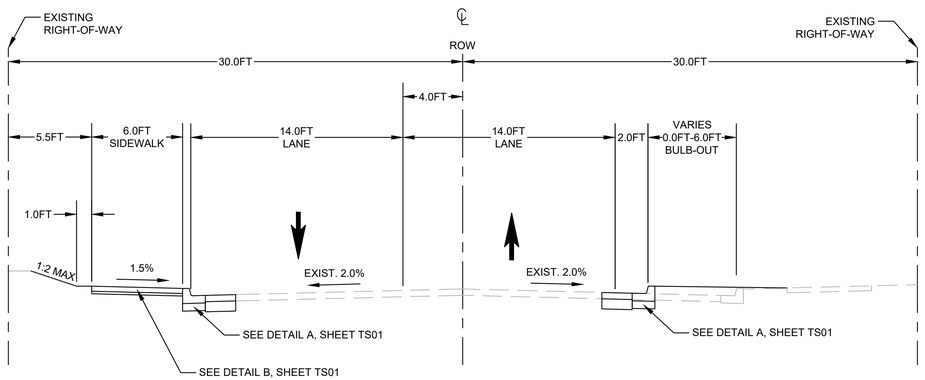


C2 TYPICAL SECTION - CORNWALL AVE
STA. 809+53 - STA. 810+43
NTS



C3 TYPICAL SECTION - CORNWALL AVE
STA. 805+05 - STA. 805+88
STA. 808+62 - STA. 809+53
NTS

NOTES

1. SEE SHEET LG FOR LEGEND.
2. SEE SHEETS NT01 - NT02 FOR GENERAL NOTES.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS PV01 - PV09 FOR PAVING DETAILS.
5. SEE SHEET TS01 FOR TYPICAL SECTION DETAILS A & B.

BRETT ADAM ANTHONY
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PRELIMINARY

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TYPICAL ROADWAY SECTIONS

SHEET 24 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES

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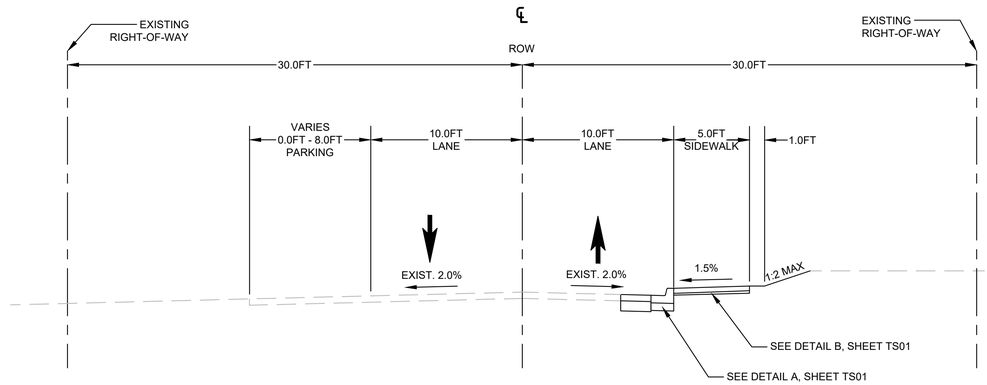
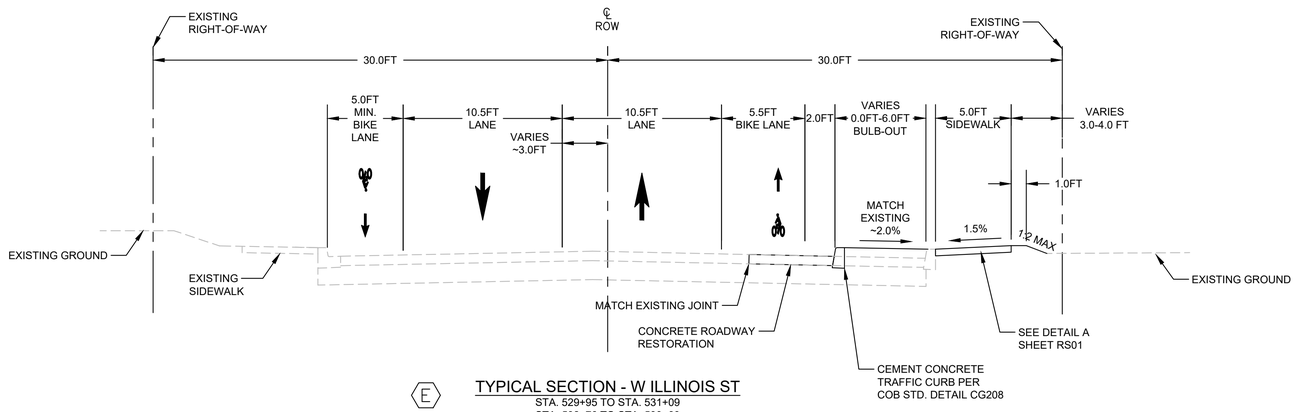
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS PV01 - PV09 FOR PAVING DETAILS.
5. SEE SHEET TS01 FOR TYPICAL SECTION DETAILS A & B.



D

TYPICAL SECTION - COOLIDGE DR

STA. 900+62 TO STA. 910+13
NTS



E

TYPICAL SECTION - W ILLINOIS ST

STA. 529+95 TO STA. 531+09
STA. 532+76 TO STA. 533+83
STA. 535+49 TO STA. 536+57
STA. 541+14 TO STA. 541+59
NTS

BRETT ADAM ANTHONY
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22551
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PRELIMINARY

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
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ENGINEERING DIVISION

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Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TYPICAL ROADWAY SECTIONS

SHEET 25 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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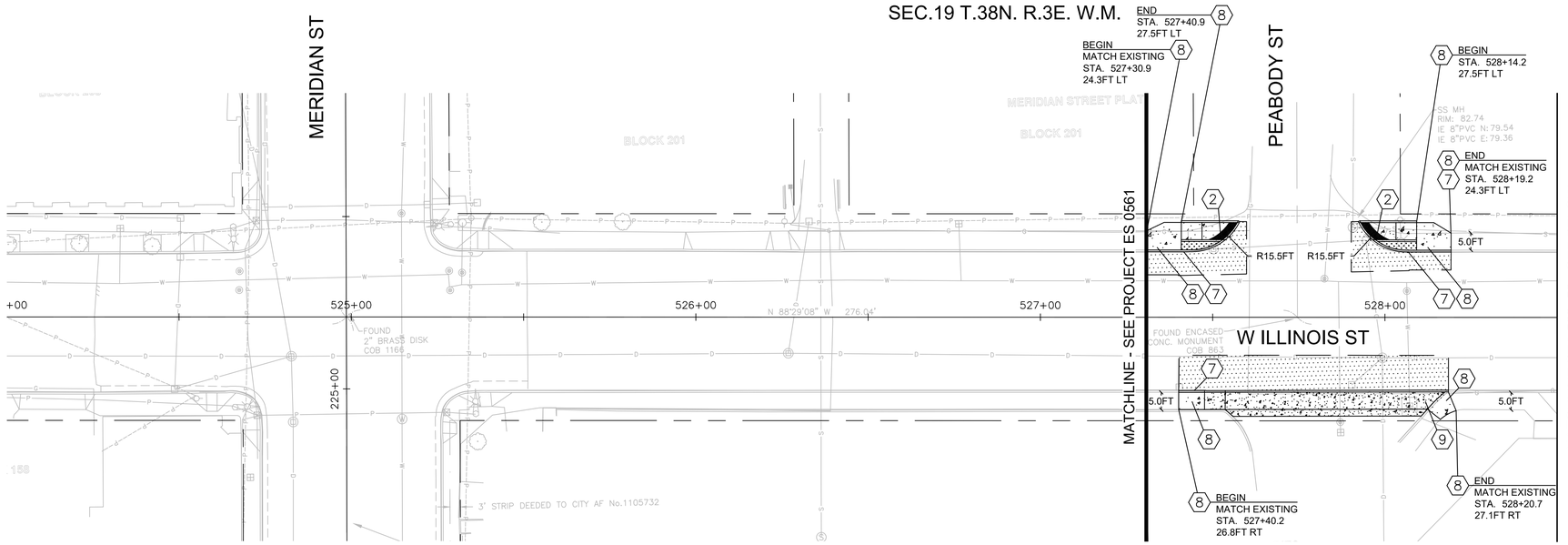
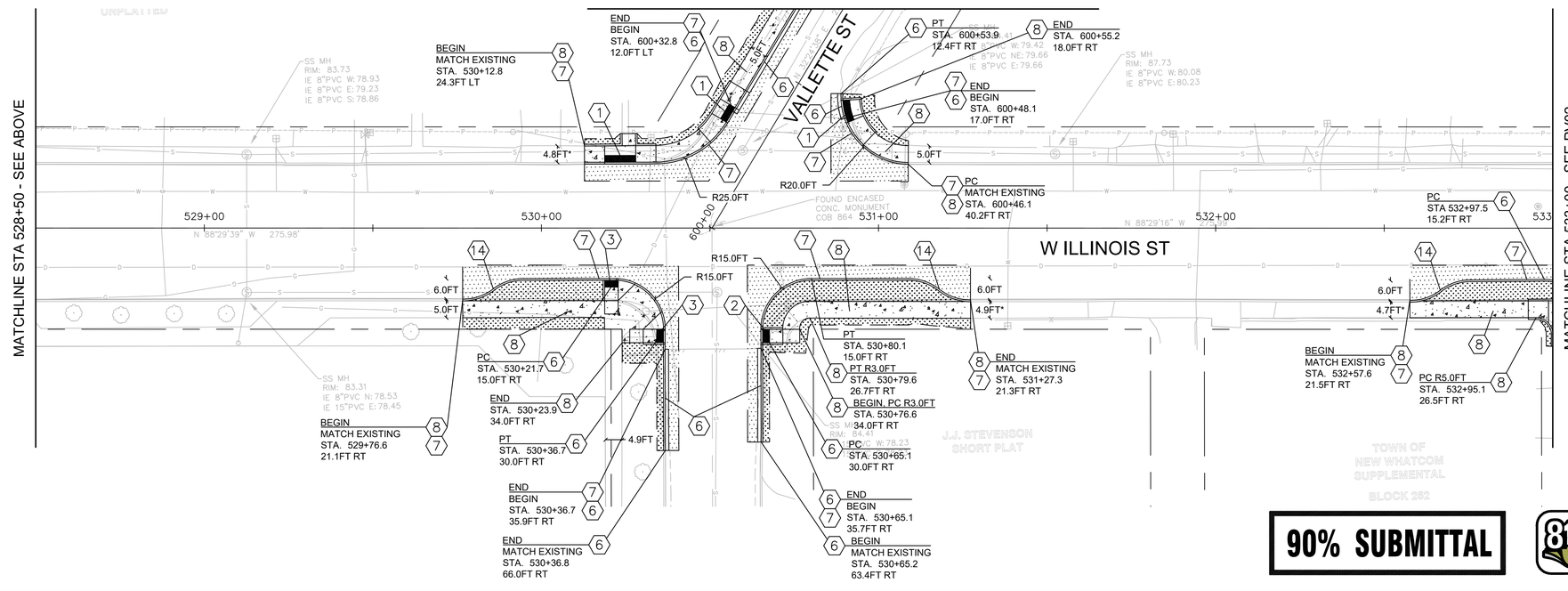


GAS FACILITIES PRESENT THROUGHOUT CORRIDOR. VERIFY LOCATIONS AND PROCEED WITH CAUTION.

MATCHLINE - SEE SEE PV04



NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS DET01 - DET06 FOR STANDARD PLANS & DETAILS.
7. SEE SHEETS PVD01 - PVD14 FOR CURB RAMP DETAILS.
8. SEE SHEETS PP01 - PP09 FOR CURB RETURN ALIGNMENTS & PROFILES.
9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING LEGEND

- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE DRIVEWAY
- PAVEMENT REPAIR PER WSDOT A-40.10-03
- MILL/OVERLAY
- GRASS / MULCH
- ROUNDABOUT ISLAND
- DETECTABLE WARNING SURFACE
- EXISTING RIGHT OF WAY
- CUT/FILL LINE
- SAWCUT LINE

PAVING CONSTRUCTION NOTES

1. CONSTRUCT PARALLEL CURB RAMP PER WSDOT STANDARD PLAN F-40.12, SHEET DET01.
2. CONSTRUCT COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F-40.14, SHEET DET01.
3. CONSTRUCT PERPENDICULAR CURB RAMP PER WSDOT STANDARD PLAN F-40.15, SHEET DET01.
4. CONSTRUCT SINGLE-DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16, SHEET DET01.
5. CONSTRUCT PEDESTRIAN REFUGE WITH FULL HEIGHT CURB, SEE TRANSITION DETAIL A, SHEET DET03.
6. CONSTRUCT TYPE A MODIFIED TRAFFIC CURB & GUTTER PER CITY OF BELLINGHAM STANDARD PLAN CG-200, SHEET DET02.
7. CONSTRUCT TYPE E CEMENT CONCRETE CURB PER CITY OF BELLINGHAM STANDARD PLAN CG-208, SHEET DET02.
8. CONSTRUCT SIDEWALK PER CITY OF BELLINGHAM STANDARD PLAN CG-230, SHEET DET02.
9. CONSTRUCT DRIVEWAY PER CITY OF BELLINGHAM STANDARD PLAN CG-260, SHEET DET03.
10. CONSTRUCT RAISED CROSSWALK PER DETAILS A & B, SHEETS DET03 AND DET04.
11. CONSTRUCT BIKE RAMP PER PAVING DETAIL SHEETS TBD.
12. CONSTRUCT DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10, SHEET DET03.
13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

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PV01

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ASSISTANT DIRECTOR C.M.A.S

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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - ILLINOIS

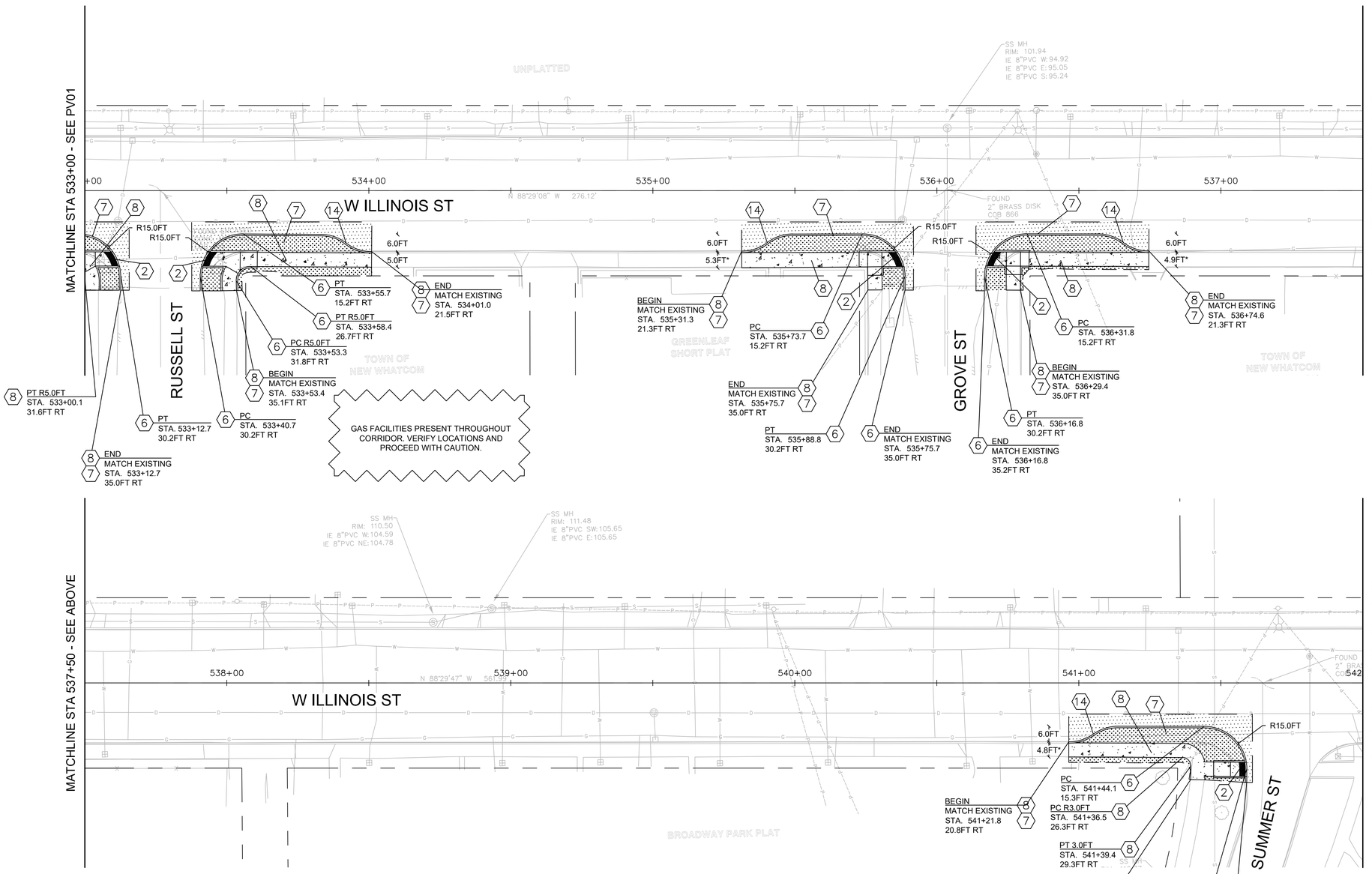
SHEET 26 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1-21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-PLAN-ILLINOIS.DWG

File: dt: 5923 - Xrefs: none \\srv-dfs-wa\projects\21\1-21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-paving-plan-illinois.dwg Layout: PV01

SEC.19 T.38N. R.3E. W.M.



NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS DET01 - DET06 FOR STANDARD PLANS & DETAILS.
7. SEE SHEETS PVD01 - PVD14 FOR CURB RAMP DETAILS.
8. SEE SHEETS PP01 - PP09 FOR CURB RETURN ALIGNMENTS & PROFILES.
9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING CONSTRUCTION NOTES

1. CONSTRUCT PARALLEL CURB RAMP PER WSDOT STANDARD PLAN F-40.12, SHEET DET01.
2. CONSTRUCT COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F-40.14, SHEET DET01.
3. CONSTRUCT PERPENDICULAR CURB RAMP PER WSDOT STANDARD PLAN F-40.15, SHEET DET01.
4. CONSTRUCT SINGLE-DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16, SHEET DET01.
5. CONSTRUCT PEDESTRIAN REFUGE WITH FULL HEIGHT CURB, SEE TRANSITION DETAIL A, SHEET DET03.
6. CONSTRUCT TYPE A MODIFIED TRAFFIC CURB & GUTTER PER CITY OF BELLINGHAM STANDARD PLAN CG-200, SHEET DET02.
7. CONSTRUCT TYPE E CEMENT CONCRETE CURB PER CITY OF BELLINGHAM STANDARD PLAN CG-208, SHEET DET02.
8. CONSTRUCT SIDEWALK PER CITY OF BELLINGHAM STANDARD PLAN CG-230, SHEET DET02.
9. CONSTRUCT DRIVEWAY PER CITY OF BELLINGHAM STANDARD PLAN CG-260, SHEET DET03.
10. CONSTRUCT RAISED CROSSWALK PER DETAILS A & B, SHEETS DET03 AND DET04.
11. CONSTRUCT BIKE RAMP PER PAVING DETAIL SHEETS TBD.
12. CONSTRUCT DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10, SHEET DET03.
13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

BRETT ADAM HARRY
STATE OF WASHINGTON
22551
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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PV02

	No	Revision	By
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - ILLINOIS

SHEET 27 OF 102

CONTACT PERSON: FREEMAN ANTHONY ; PROJECT ENGINEER AT (360) 778-7924

Feb 16, 2023 - 4:19pm nick \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-paving plan-illinois.dwg Layout: PV02

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SEC.19 T.38N. R.3E. W.M.

MATCHLINE - SEE PV07

MATCHLINE STA 542+00 - SEE PV02

MATCHLINE STA 546+50 - SEE BELOW

W ILLINOIS ST

CORNWALL AVE

SUNSET DR

COOLIDGE DR

BROADWAY PARK BLOCK 166

BROADWAY PARK BLOCK 167

BROADWAY PARK BLOCK 168

SQUALICUM PARK BLOCK 5

GAS FACILITIES PRESENT THROUGHOUT CORRIDOR. VERIFY LOCATIONS AND PROCEED WITH CAUTION.

MATCHLINE STA 900+82 - SEE PV09

MATCHLINE STA 546+50 - SEE ABOVE

NOTES

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4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS DET01 - DET06 FOR STANDARD PLANS & DETAILS.
7. SEE SHEETS PVD01 - PVD14 FOR CURB RAMP DETAILS.
8. SEE SHEETS PP01 - PP09 FOR CURB RETURN ALIGNMENTS & PROFILES.
9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING CONSTRUCTION NOTES

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4. CONSTRUCT SINGLE-DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16, SHEET DET01.
5. CONSTRUCT PEDESTRIAN REFUGE WITH FULL HEIGHT CURB, SEE TRANSITION DETAIL A, SHEET DET03.
6. CONSTRUCT TYPE A MODIFIED TRAFFIC CURB & GUTTER PER CITY OF BELLINGHAM STANDARD PLAN CG-200, SHEET DET02.
7. CONSTRUCT TYPE E CEMENT CONCRETE CURB PER CITY OF BELLINGHAM STANDARD PLAN CG-208, SHEET DET02.
8. CONSTRUCT SIDEWALK PER CITY OF BELLINGHAM STANDARD PLAN CG-230, SHEET DET02.
9. CONSTRUCT DRIVEWAY PER CITY OF BELLINGHAM STANDARD PLAN CG-260, SHEET DET03.
10. CONSTRUCT RAISED CROSSWALK PER DETAILS A & B, SHEETS DET03 AND DET04.
11. CONSTRUCT BIKE RAMP PER PAVING DETAIL SHEETS TBD.
12. CONSTRUCT DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10, SHEET DET03.
13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

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PV03

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - ILLINOIS

SHEET 28 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Plotted: 9/29/2023 - 4:18pm By: tnk \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-paving-plan-illinois.dwg Layout: PV03

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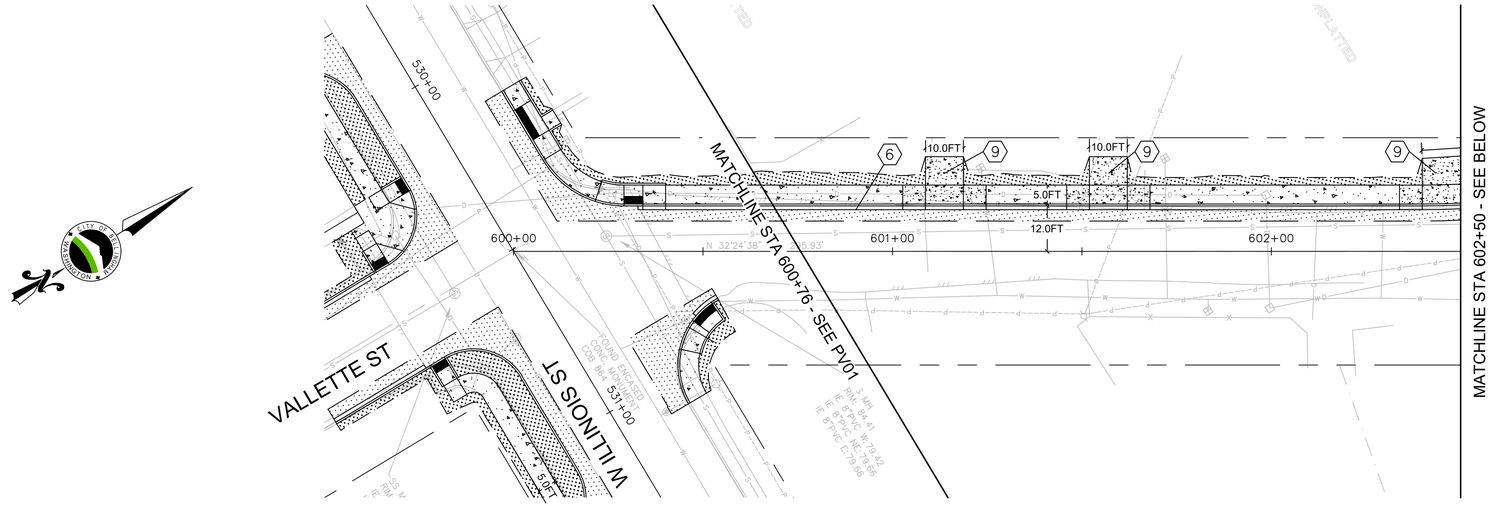
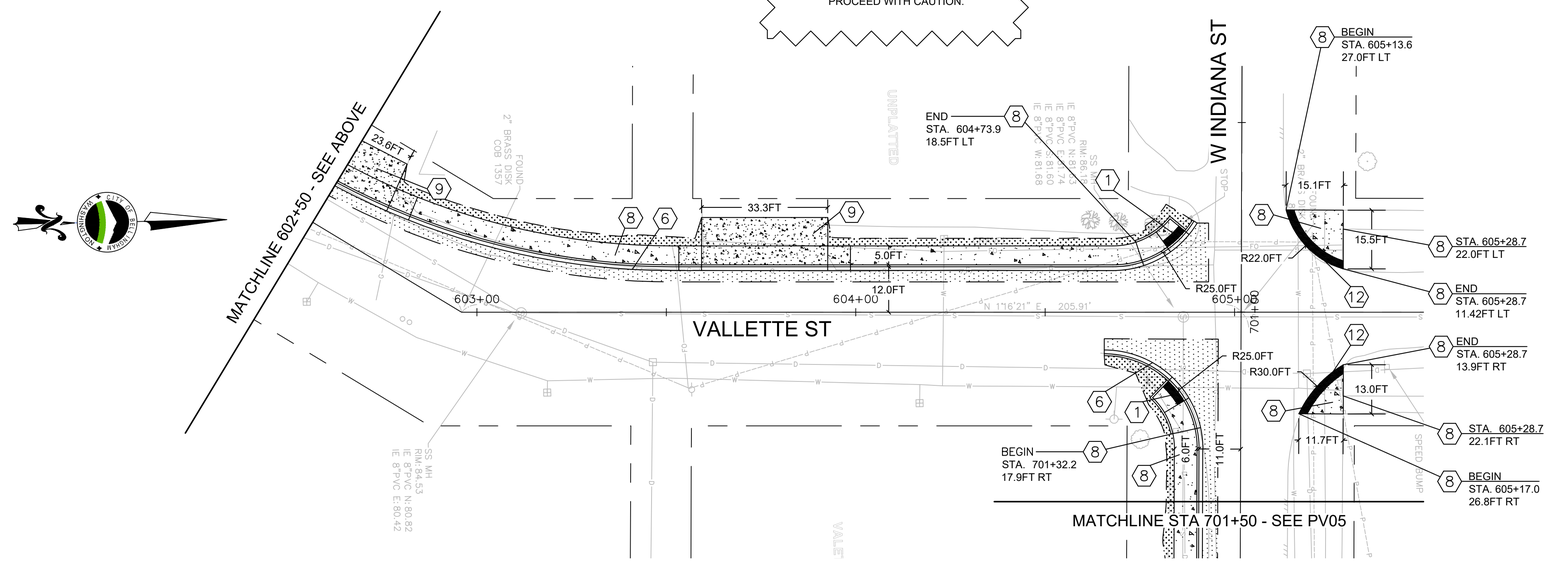


GAS FACILITIES PRESENT THROUGHOUT CORRIDOR. VERIFY LOCATIONS AND PROCEED WITH CAUTION.



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9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING CONSTRUCTION NOTES

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13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
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PV04

Date	No	Revision	By
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - VALLETTE

SHEET 29 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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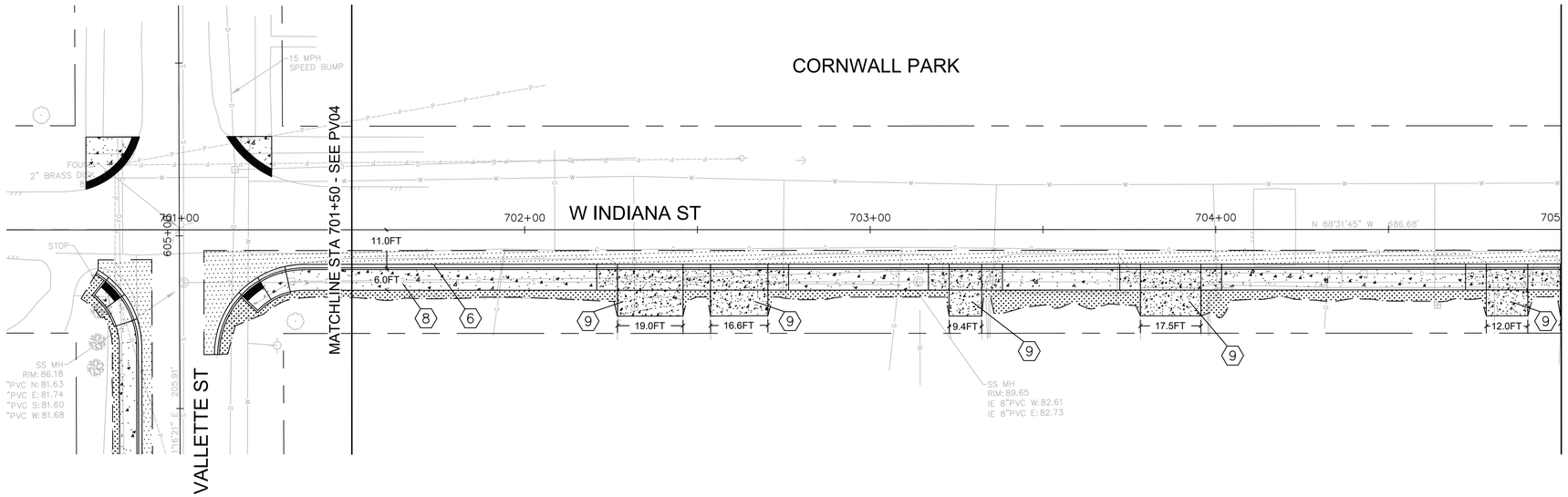

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - INDIANA

SHEET 30 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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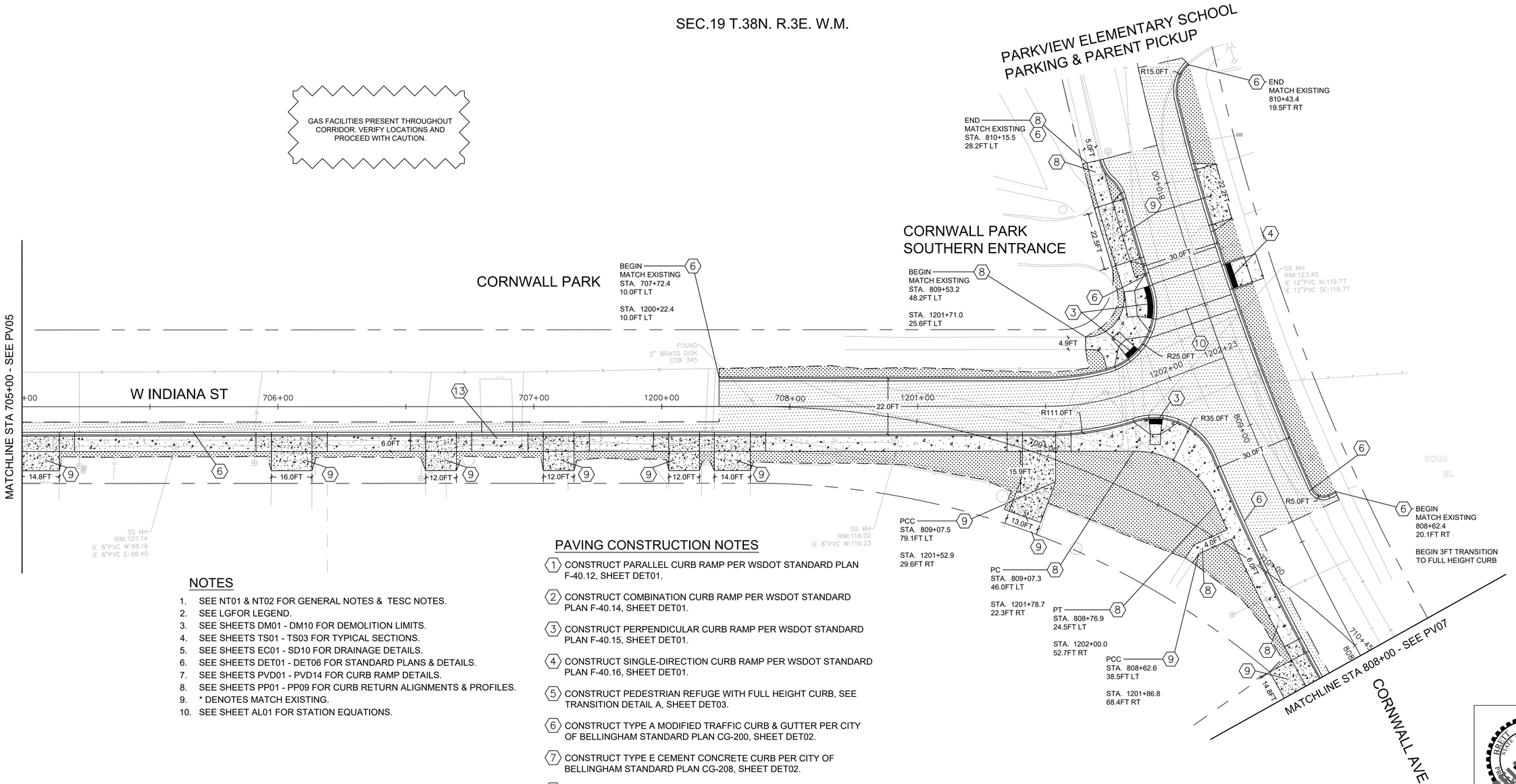

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14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

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PV06

Date	No	Revision	By
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - INDIANA

SHEET 31 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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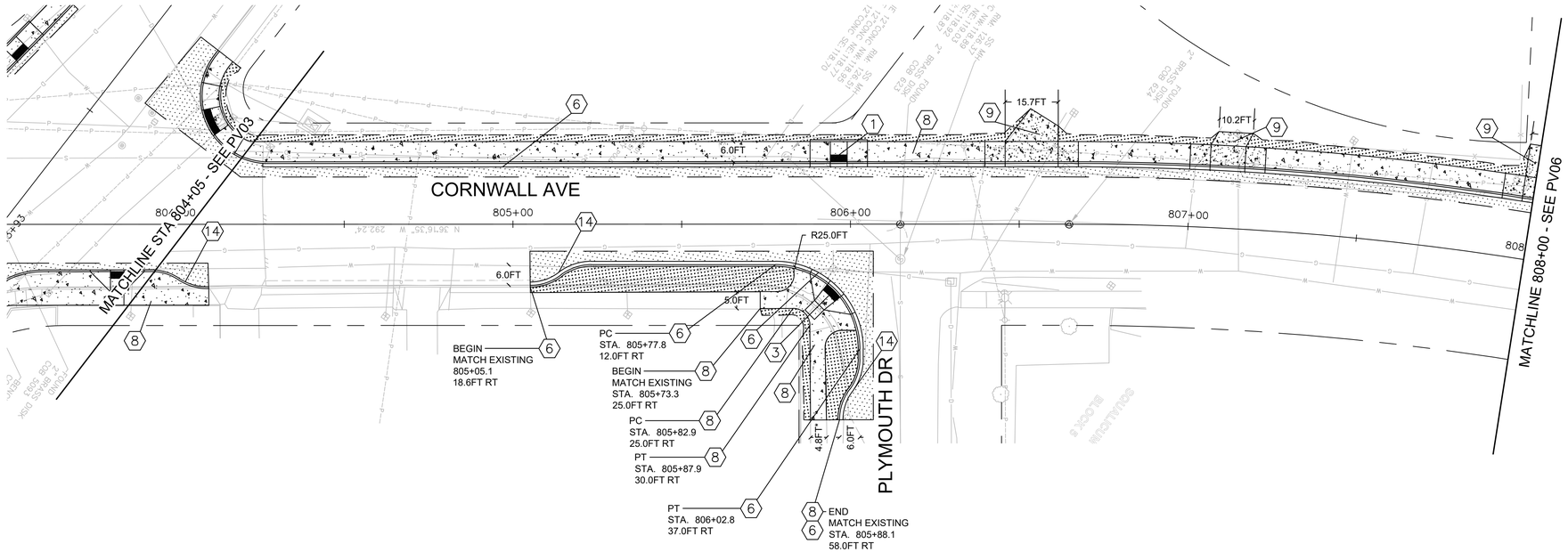

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Date	No	Revision	By
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

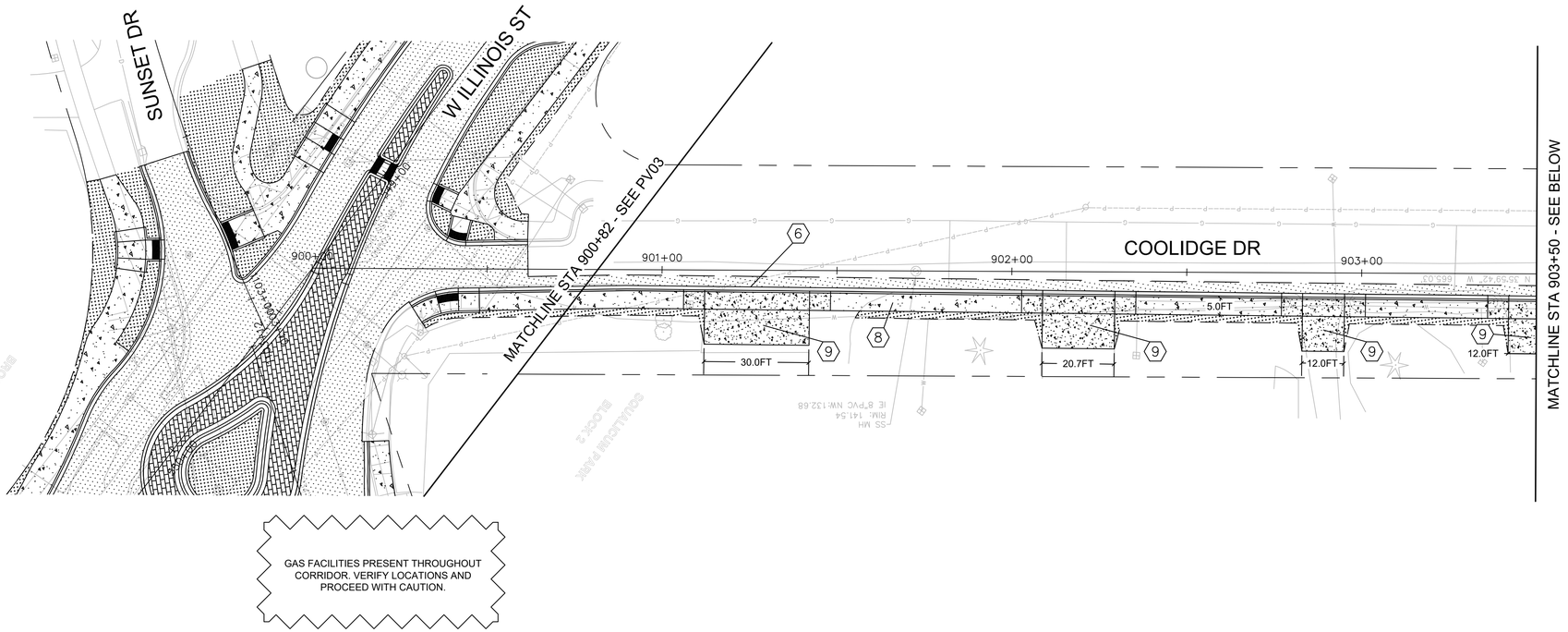
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - CORNWALL

SHEET 32 OF 102

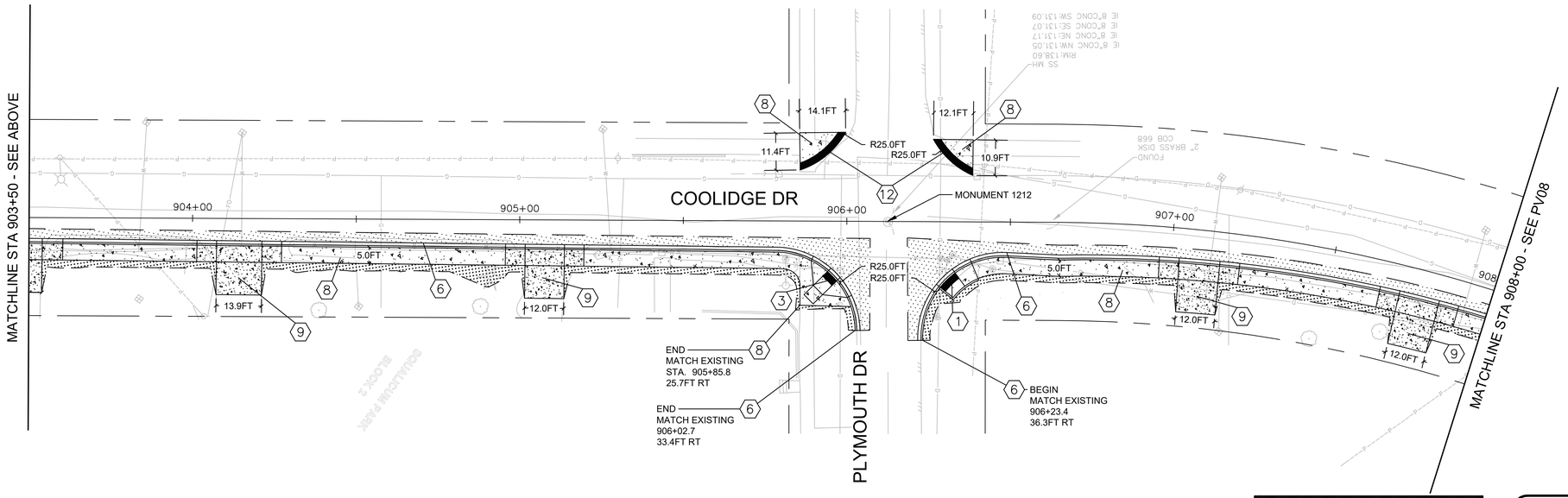
CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-PLAN-CORNWALL.DWG

SEC.19 T.38N. R.3E. W.M.



GAS FACILITIES PRESENT THROUGHOUT CORRIDOR. VERIFY LOCATIONS AND PROCEED WITH CAUTION.



NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS DET01 - DET06 FOR STANDARD PLANS & DETAILS.
7. SEE SHEETS PVD01 - PVD14 FOR CURB RAMP DETAILS.
8. SEE SHEETS PP01 - PP09 FOR CURB RETURN ALIGNMENTS & PROFILES.
9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING CONSTRUCTION NOTES

1. CONSTRUCT PARALLEL CURB RAMP PER WSDOT STANDARD PLAN F-40.12, SHEET DET01.
2. CONSTRUCT COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F-40.14, SHEET DET01.
3. CONSTRUCT PERPENDICULAR CURB RAMP PER WSDOT STANDARD PLAN F-40.15, SHEET DET01.
4. CONSTRUCT SINGLE-DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16, SHEET DET01.
5. CONSTRUCT PEDESTRIAN REFUGE WITH FULL HEIGHT CURB, SEE TRANSITION DETAIL A, SHEET DET03.
6. CONSTRUCT TYPE A MODIFIED TRAFFIC CURB & GUTTER PER CITY OF BELLINGHAM STANDARD PLAN CG-200, SHEET DET02.
7. CONSTRUCT TYPE E CEMENT CONCRETE CURB PER CITY OF BELLINGHAM STANDARD PLAN CG-208, SHEET DET02.
8. CONSTRUCT SIDEWALK PER CITY OF BELLINGHAM STANDARD PLAN CG-230, SHEET DET02.
9. CONSTRUCT DRIVEWAY PER CITY OF BELLINGHAM STANDARD PLAN CG-260, SHEET DET03.
10. CONSTRUCT RAISED CROSSWALK PER DETAILS A & B, SHEETS DET03 AND DET04.
11. CONSTRUCT BIKE RAMP PER PAVING DETAIL SHEETS TBD.
12. CONSTRUCT DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10, SHEET DET03.
13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

PRELIMINARY
BRETT ADAM BERRY
STATE OF WASHINGTON
22551
REGISTERED PROFESSIONAL ENGINEER

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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - COOLIDGE

SHEET 33 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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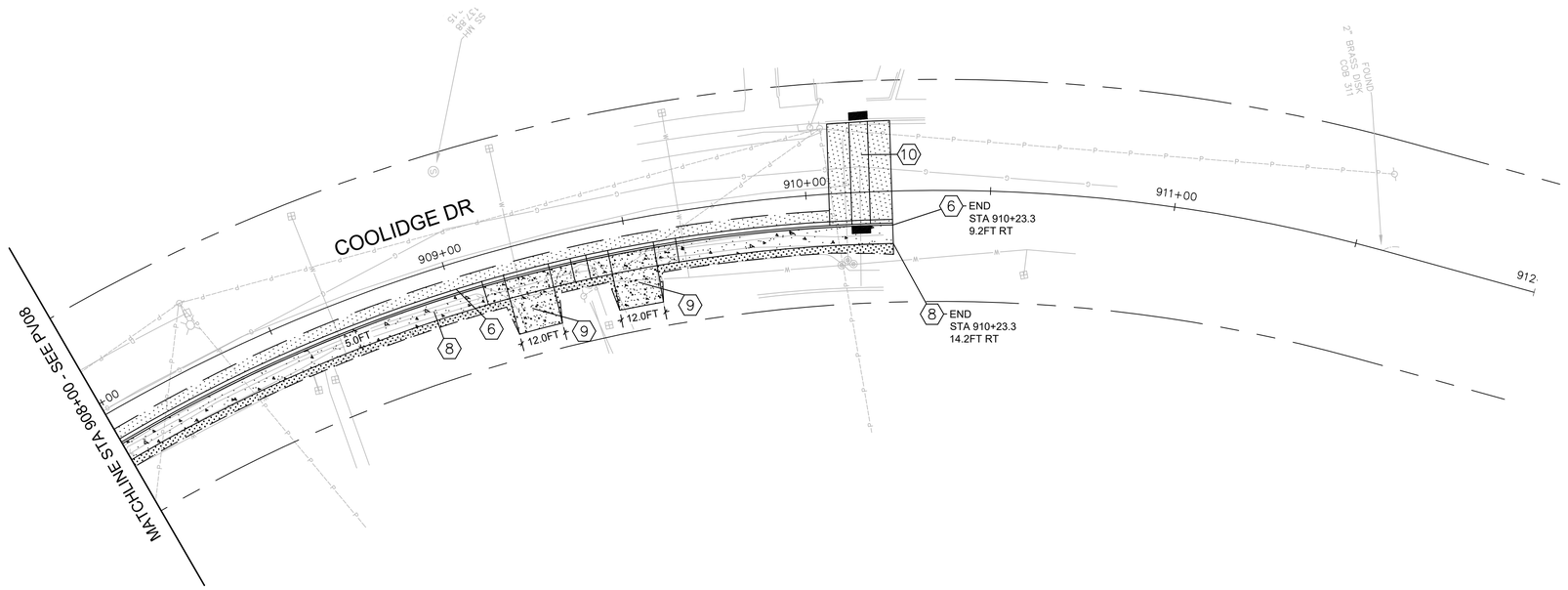
PARKVIEW ELEMENTARY



NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS DET01 - DET06 FOR STANDARD PLANS & DETAILS.
7. SEE SHEETS PVD01 - PVD14 FOR CURB RAMP DETAILS.
8. SEE SHEETS PP01 - PP09 FOR CURB RETURN ALIGNMENTS & PROFILES.
9. * DENOTES MATCH EXISTING.
10. SEE SHEET AL01 FOR STATION EQUATIONS.

PAVING CONSTRUCTION NOTES

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4. CONSTRUCT SINGLE-DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16, SHEET DET01.
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8. CONSTRUCT SIDEWALK PER CITY OF BELLINGHAM STANDARD PLAN CG-230, SHEET DET02.
9. CONSTRUCT DRIVEWAY PER CITY OF BELLINGHAM STANDARD PLAN CG-260, SHEET DET03.
10. CONSTRUCT RAISED CROSSWALK PER DETAILS A & B, SHEETS DET03 AND DET04.
11. CONSTRUCT BIKE RAMP PER PAVING DETAIL SHEETS TBD.
12. CONSTRUCT DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10, SHEET DET03.
13. RESTORE SPEED BUMP & MARKINGS PER RAISED CROSSING DETAIL, SHEET DET03.
14. CONSTRUCT REVERSE CURVES PER CURB EXTENSION DETAIL ON SHEET DET05

PRELIMINARY
ADAM E. BERRY
STATE OF WASHINGTON
52551
REGISTERED PROFESSIONAL ENGINEER

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PV09

Date	No	Revision	By
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING PLAN - COOLIDGE

SHEET 34 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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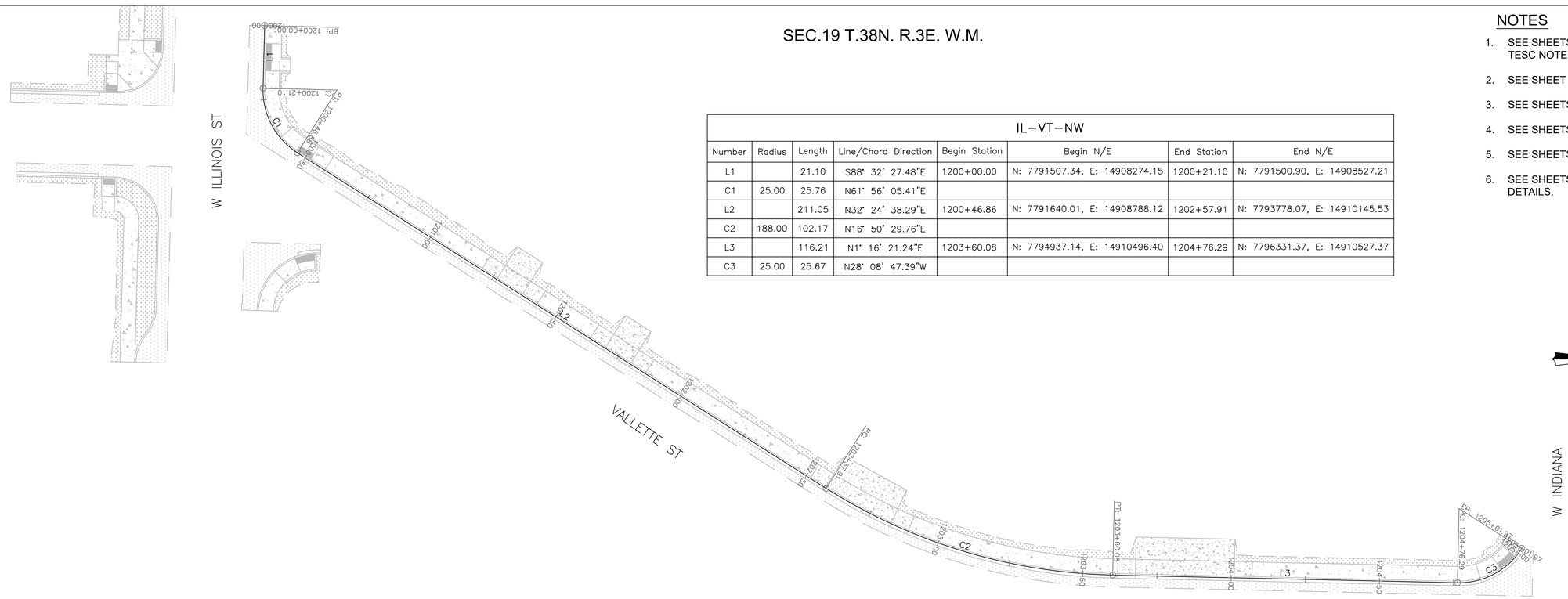
SEC.19 T.38N. R.3E. W.M.

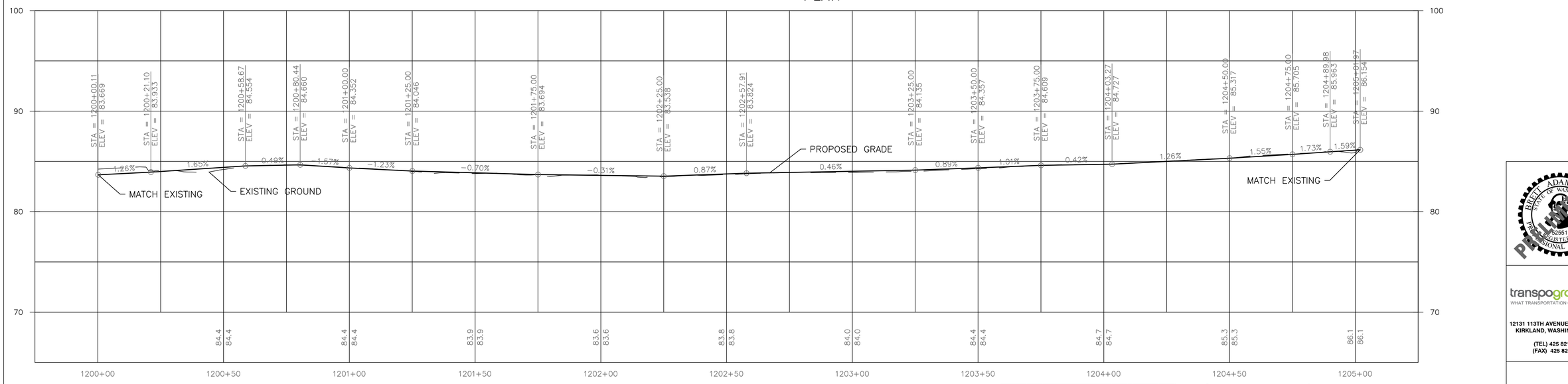
NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

IL–VT–NW							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L1		21.10	S88° 32' 27.48"E	1200+00.00	N: 7791507.34, E: 14908274.15	1200+21.10	N: 7791500.90, E: 14908527.21
C1	25.00	25.76	N61° 56' 05.41"E				
L2		211.05	N32° 24' 38.29"E	1200+46.86	N: 7791640.01, E: 14908788.12	1202+57.91	N: 7793778.07, E: 14910145.53
C2	188.00	102.17	N16° 50' 29.76"E				
L3		116.21	N1° 16' 21.24"E	1203+60.08	N: 7794937.14, E: 14910496.40	1204+76.29	N: 7796331.37, E: 14910527.37
C3	25.00	25.67	N28° 08' 47.39"W				



VALLETTE ST – CURB RETURN
PLAN



VALLETTE ST – CURB RETURN
PROFILE

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PP01

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PROJECT ENGINEER BAS
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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DATUM
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - VALLETTE

SHEET 35 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

IN–VT–SE							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
C1	25.00	39.36	N46° 22' 18.08"E				
L1		764.29	S88° 31' 45.07"E	1210+39.36	N: 7796591.13, E: 14911110.32	1218+03.64	N: 7796355.72, E: 14920278.73
C2	111.00	34.89	N82° 28' 02.44"E				
C3	25.00	37.25	S63° 50' 54.44"E				
C4	886.73	234.68	S28° 44' 33.19"E				
L2		236.66	S36° 16' 30.23"E	1221+10.46	N: 7793769.14, E: 14922407.44	1223+47.11	N: 7791479.65, E: 14924087.70
C5	20.00	44.60	S27° 36' 33.67"W				
L3		1.69	N88° 30' 22.43"W	1223+91.71	N: 7791097.73, E: 14923887.96	1223+93.40	N: 7791098.26, E: 14923867.73

NOTES

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4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
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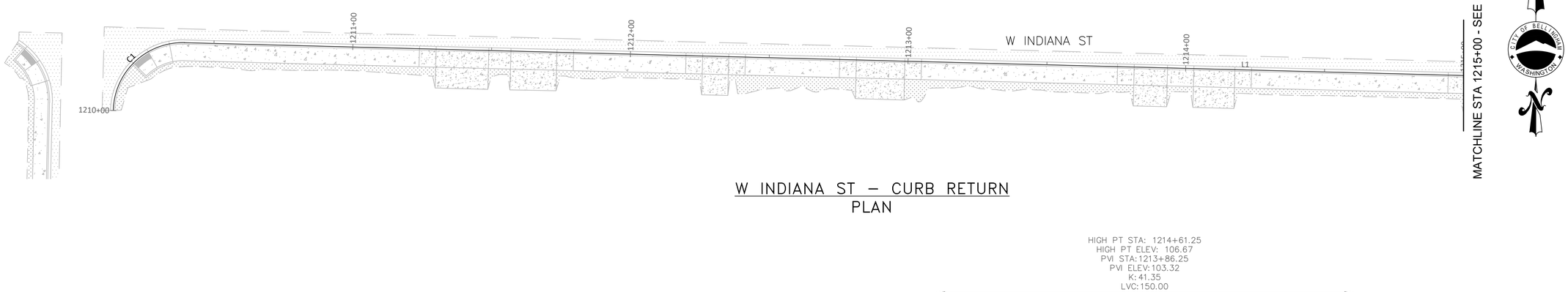
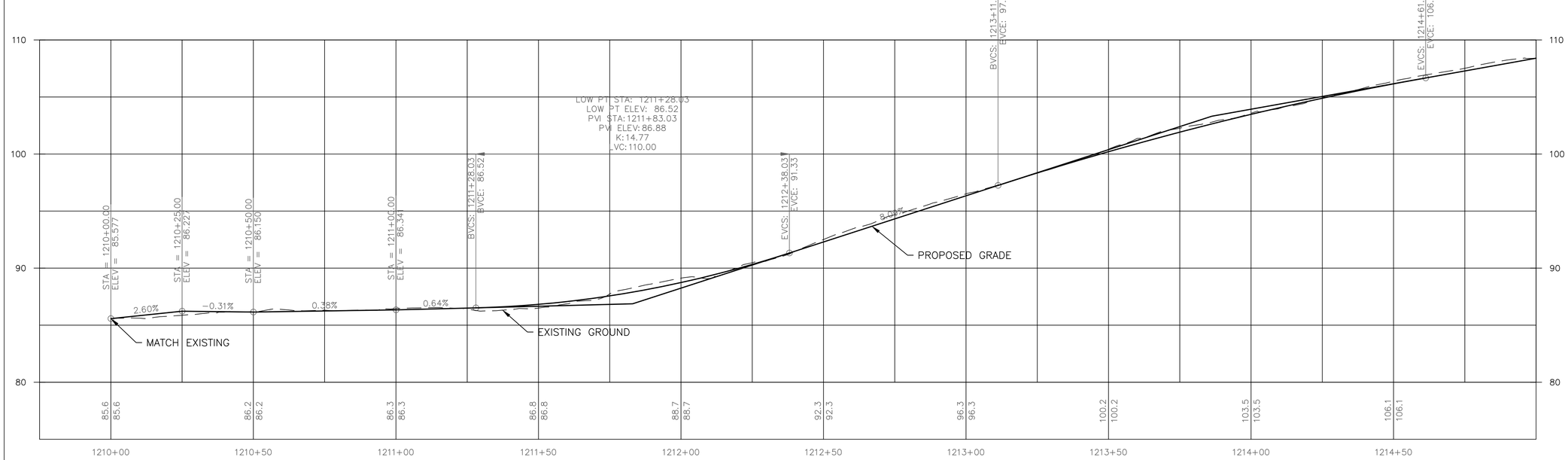
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.



W INDIANA ST – CURB RETURN
PLAN



W INDIANA ST – CURB RETURN
PROFILE

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PP02

Date	No	Revision	By
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - INDIANA

SHEET 36 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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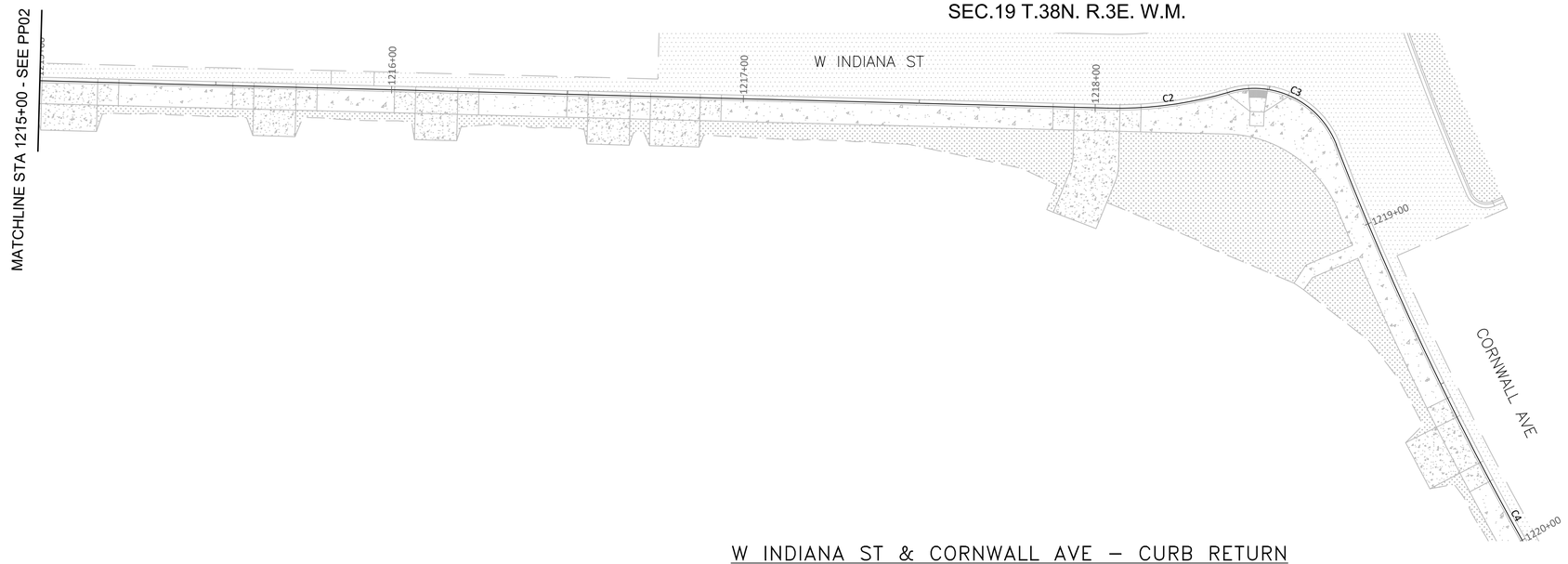

NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
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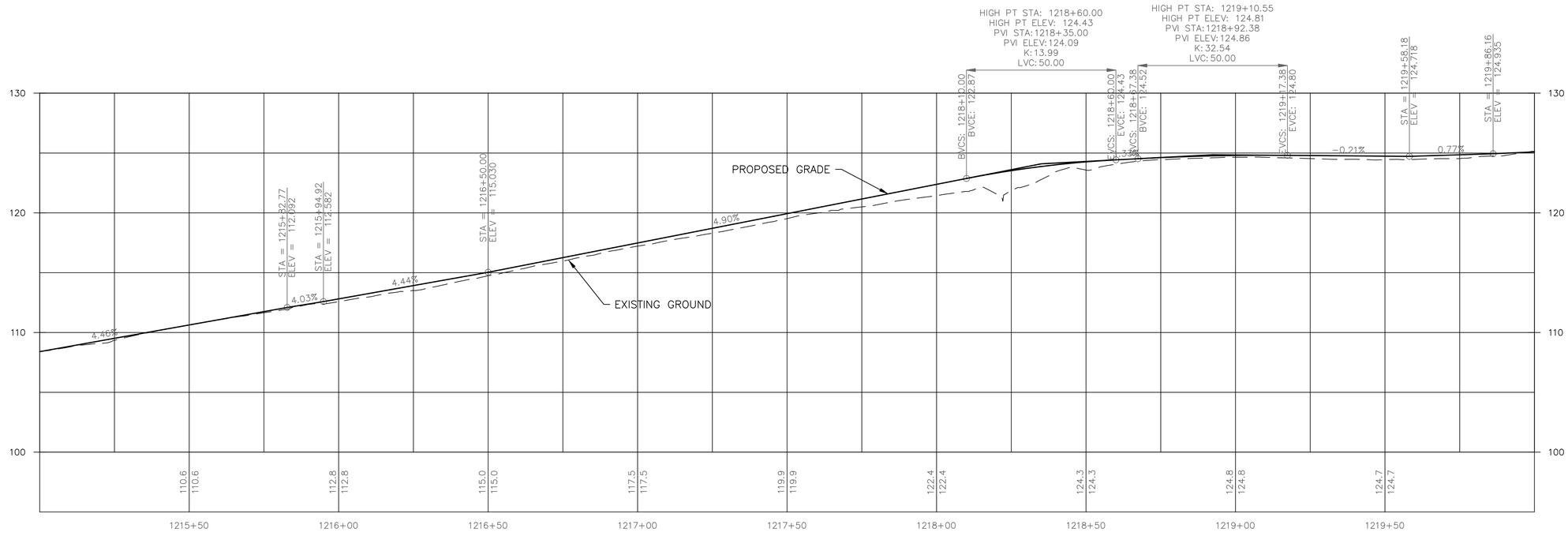
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

CITY OF BELLINGHAM WASHINGTON

N

W INDIANA ST & CORNWALL AVE – CURB RETURN
PLAN



W INDIANA ST & CORNWALL AVE – CURB RETURN
PROFILE

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PP03

Date	No	Revision	By
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - INDIANA

SHEET 37 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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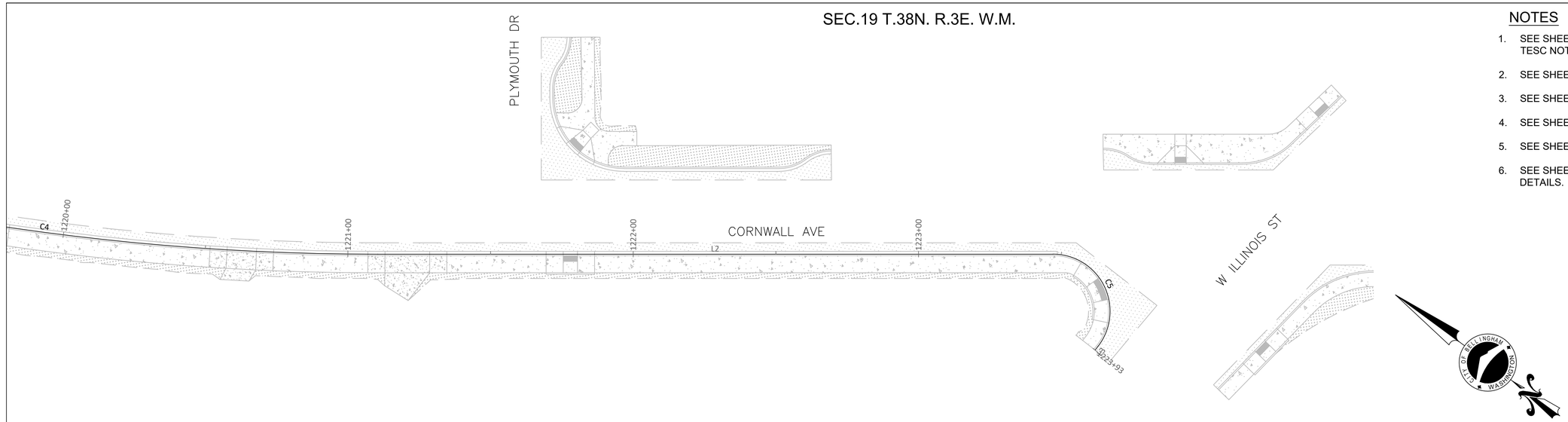

NOTES

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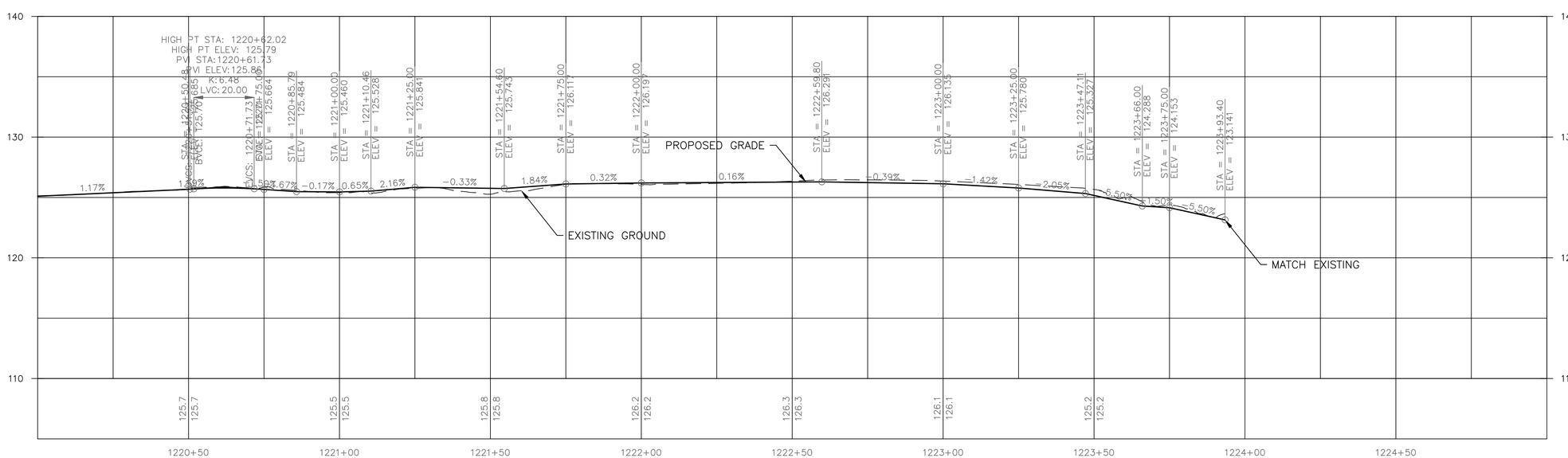
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

CORNWALL AVE – CURB RETURN
PLAN



CORNWALL AVE– CURB RETURN
PROFILE

90% SUBMITTAL

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PP04

Date	No	Revision	By
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - INDIANA

SHEET 38 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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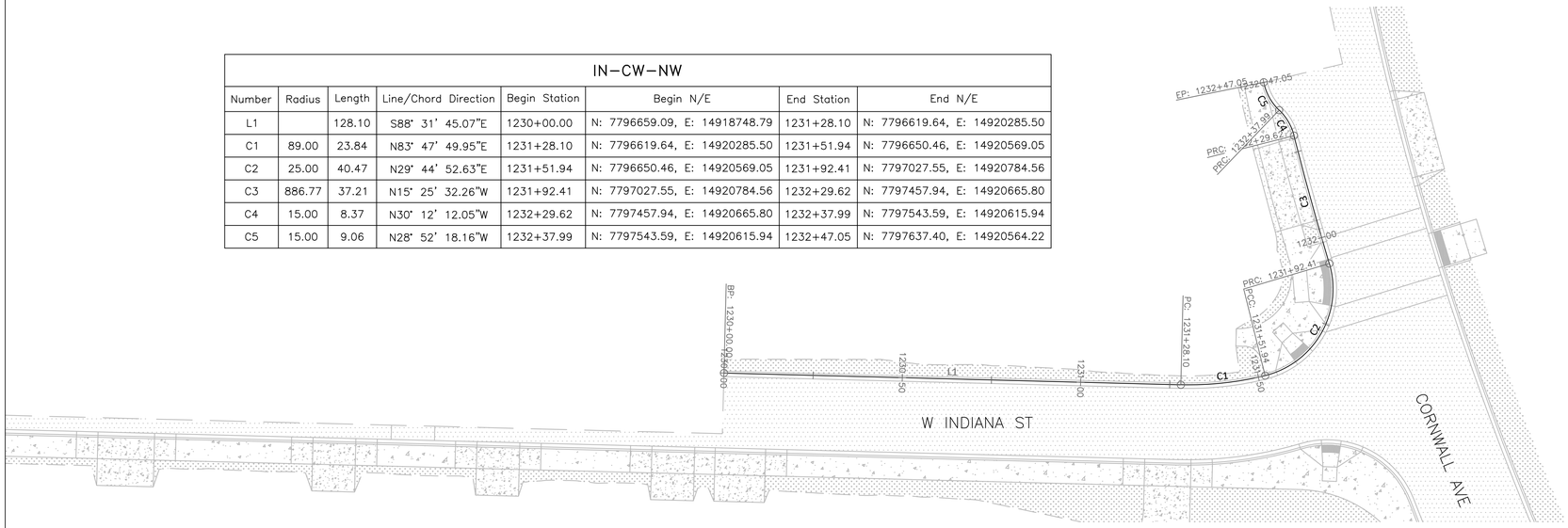
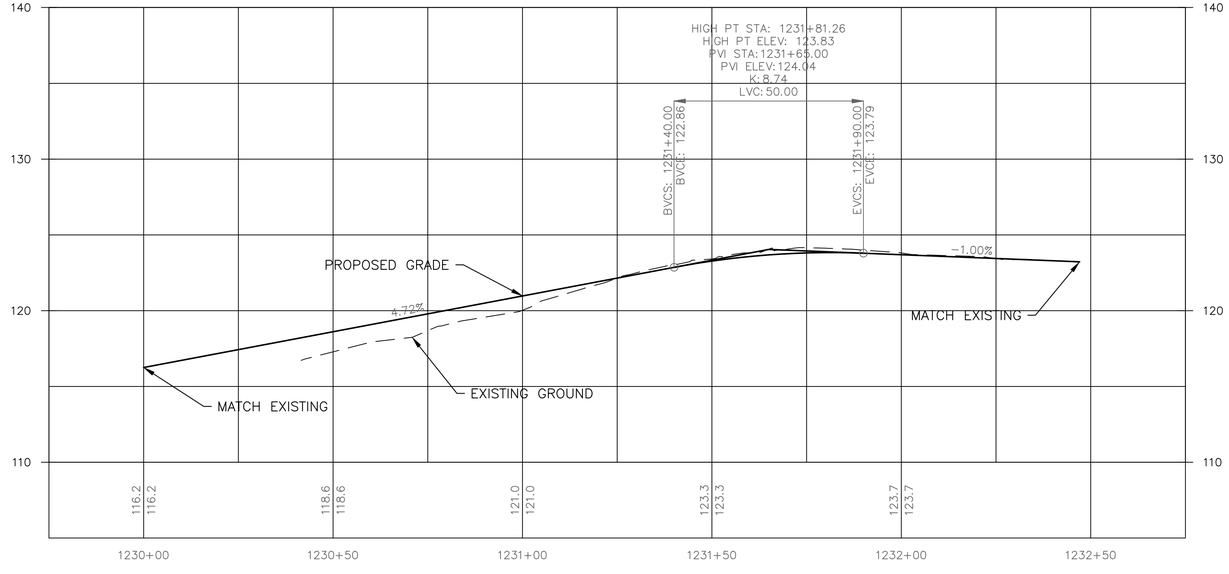
SEC.19 T.38N. R.3E. W.M.

IN–CW–NW							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L1		128.10	S88° 31' 45.07"E	1230+00.00	N: 7796659.09, E: 14918748.79	1231+28.10	N: 7796619.64, E: 14920285.50
C1	89.00	23.84	N83° 47' 49.95"E	1231+28.10	N: 7796619.64, E: 14920285.50	1231+51.94	N: 7796650.46, E: 14920569.05
C2	25.00	40.47	N29° 44' 52.63"E	1231+51.94	N: 7796650.46, E: 14920569.05	1231+92.41	N: 7797027.55, E: 14920784.56
C3	886.77	37.21	N15° 25' 32.26"W	1231+92.41	N: 7797027.55, E: 14920784.56	1232+29.62	N: 7797457.94, E: 14920665.80
C4	15.00	8.37	N30° 12' 12.05"W	1232+29.62	N: 7797457.94, E: 14920665.80	1232+37.99	N: 7797543.59, E: 14920615.94
C5	15.00	9.06	N28° 52' 18.16"W	1232+37.99	N: 7797543.59, E: 14920615.94	1232+47.05	N: 7797637.40, E: 14920564.22



NW W INDIANA ST TO CORNWALL AVE
CURB RETURN PLAN



NW W INDIANA ST TO CORNWALL AVE
CURB RETURN PROFILE

NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

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PP05

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - CORNWALL

SHEET 39 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

NOTES

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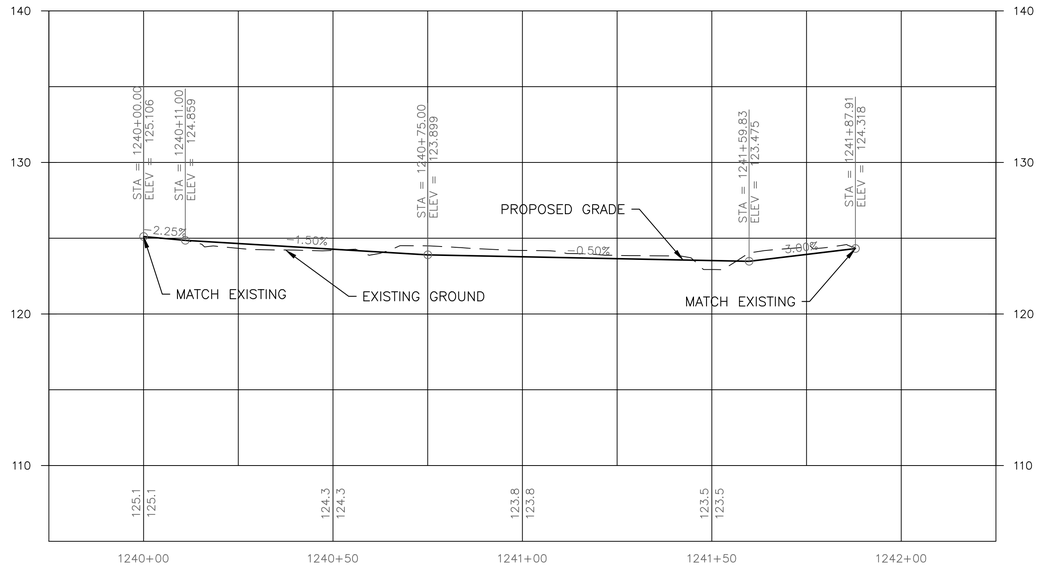
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

NE W INDIANA ST TO CORNWALL AVE
CURB RETURN PLAN



NE W INDIANA ST TO CORNWALL AVE
CURB RETURN PROFILE

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DATUM
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - CORNWALL

SHEET 40 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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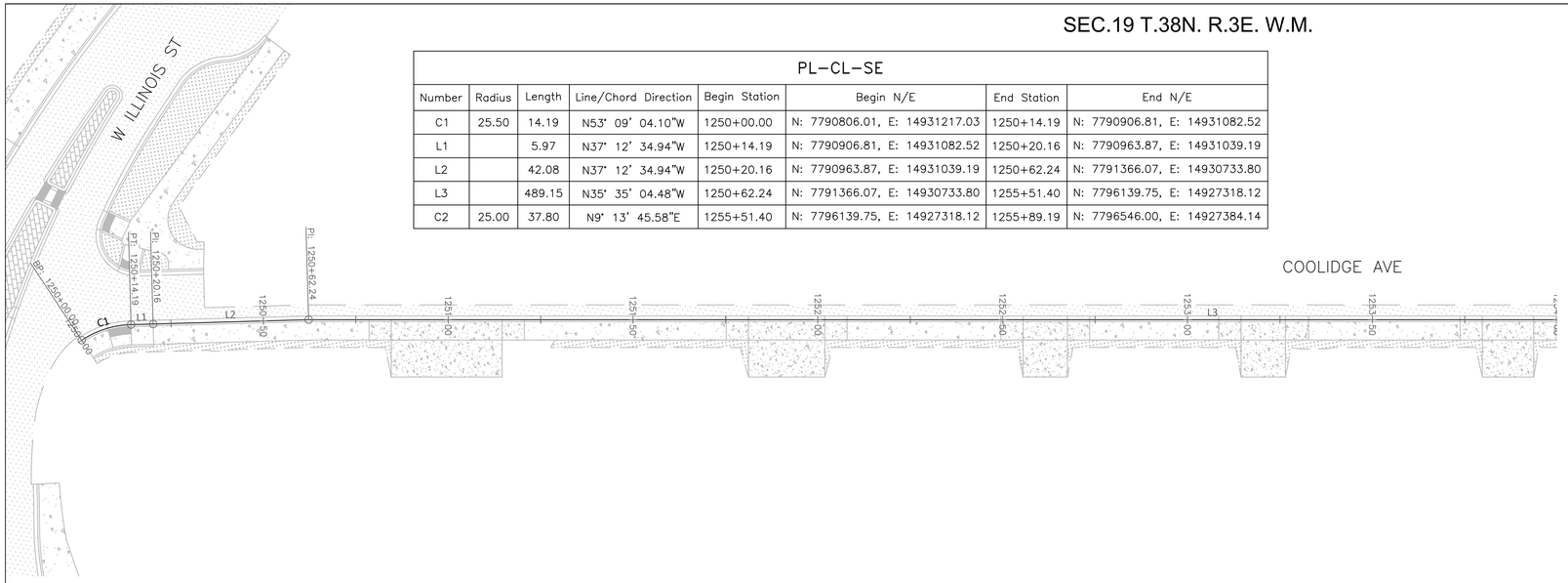
SEC.19 T.38N. R.3E. W.M.

PL–CL–SE							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
C1	25.50	14.19	N53° 09' 04.10"W	1250+00.00	N: 7790806.01, E: 14931217.03	1250+14.19	N: 7790906.81, E: 14931082.52
L1		5.97	N37° 12' 34.94"W	1250+14.19	N: 7790906.81, E: 14931082.52	1250+20.16	N: 7790963.87, E: 14931039.19
L2		42.08	N37° 12' 34.94"W	1250+20.16	N: 7790963.87, E: 14931039.19	1250+62.24	N: 7791366.07, E: 14930733.80
L3		489.15	N35° 35' 04.48"W	1250+62.24	N: 7791366.07, E: 14930733.80	1255+51.40	N: 7796139.75, E: 14927318.12
C2	25.00	37.80	N9° 13' 45.58"E	1255+51.40	N: 7796139.75, E: 14927318.12	1255+89.19	N: 7796546.00, E: 14927384.14



NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

COOLIDGE AVE – SE
CURB RETURN PLAN

COOLIDGE AVE – SE
CURB RETURN PROFILE

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PRELIMINARY — ROBERT ADAM SCHLICK — STATE OF WASHINGTON — 52551 — REGISTERED PROFESSIONAL ENGINEER

Date	No	Revision	By
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	1		

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CITY ENGINEER C.M.A.S.
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - COOLIDGE

SHEET 41 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
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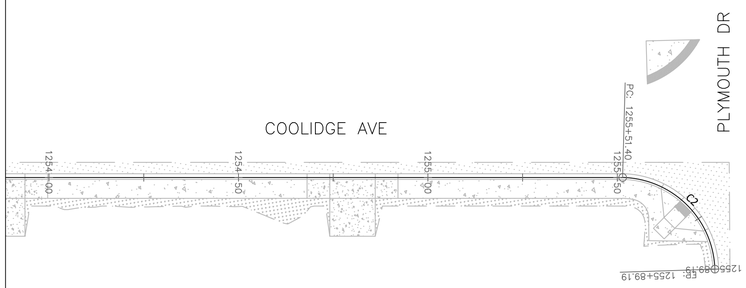
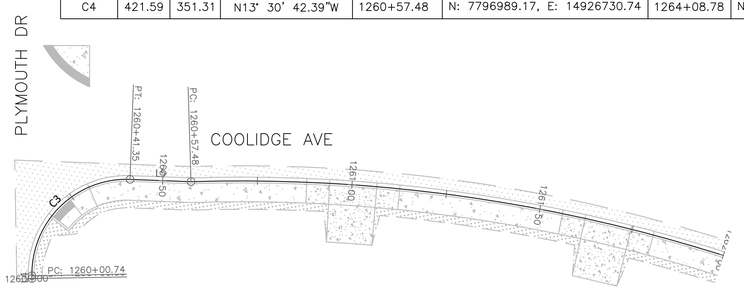
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

PL–CL–NE							
Number	Radius	Length	Line/Chord Direction	Begin Station	Begin N/E	End Station	End N/E
L4		0.74	S53° 25' 28.01"W	1260+00.00	N: 7796757.81, E: 14927273.66	1260+00.74	N: 7796752.51, E: 14927266.51
C3	25.00	40.60	N80° 02' 45.65"W	1260+00.74	N: 7796752.51, E: 14927266.51	1260+41.35	N: 7796827.78, E: 14926837.63
L5		16.13	N33° 30' 59.31"W	1260+41.35	N: 7796827.78, E: 14926837.63	1260+57.48	N: 7796989.17, E: 14926730.74
C4	421.59	351.31	N13° 30' 42.39"W	1260+57.48	N: 7796989.17, E: 14926730.74	1264+08.78	N: 7800970.60, E: 14925774.02



COOLIDGE AVE – SE
CURB RETURN PLAN



COOLIDGE AVE – NE
CURB RETURN PLAN

COOLIDGE AVE – SE
CURB RETURN PROFILE

COOLIDGE AVE – NE
CURB RETURN PROFILE

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STATE OF WASHINGTON
52551
REGISTERED PROFESSIONAL ENGINEER

PP08

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - COOLIDGE

SHEET 42 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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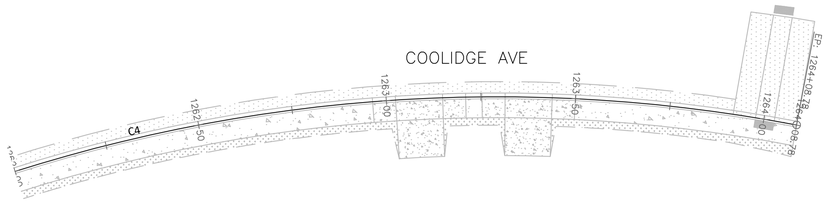
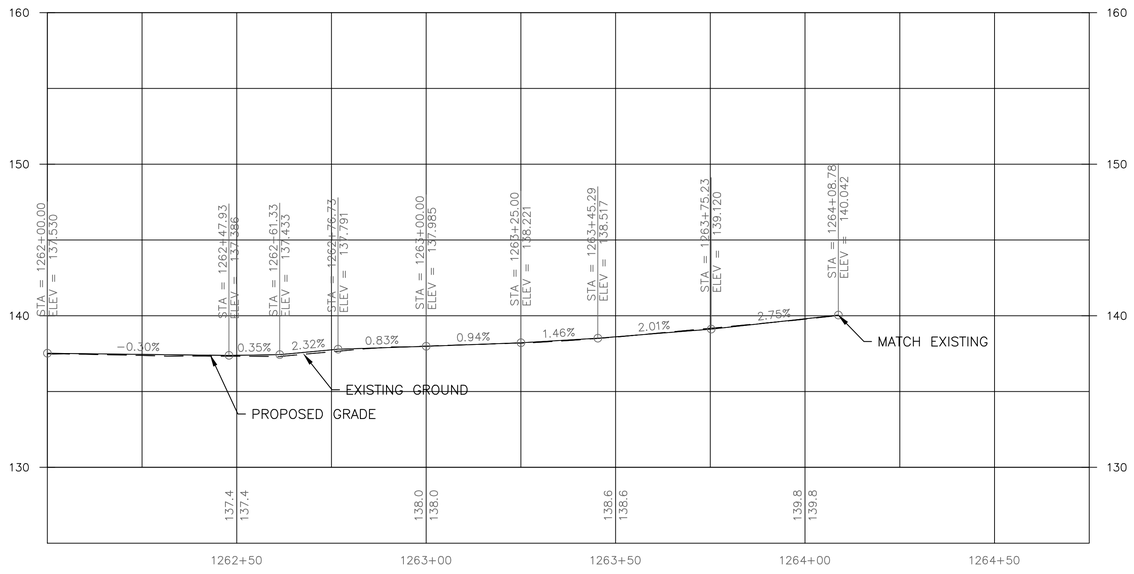
SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE SHEETS NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE SHEET LG FOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.



COOLIDGE AVE
CURB RETURN PLAN



COOLIDGE AVE
CURB RETURN PROFILE

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PP09

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	4		
	3		
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Date			

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CURB RETURN DETAIL - COOLIDGE

SHEET 43 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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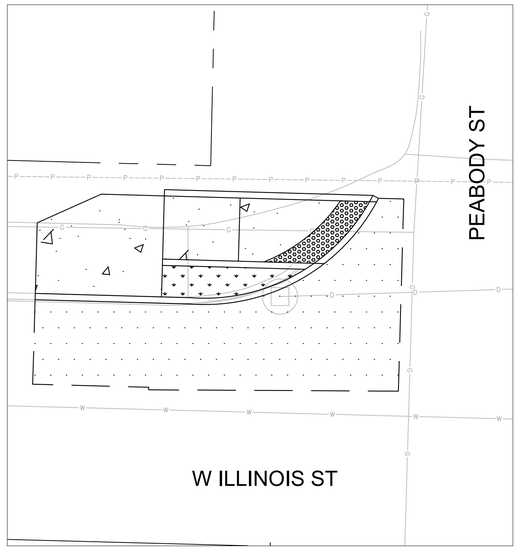
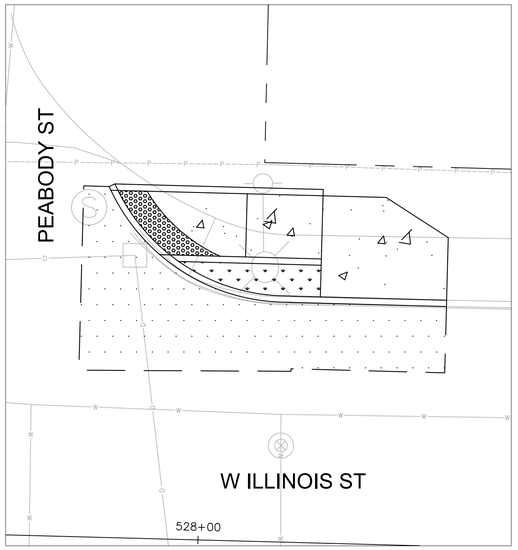
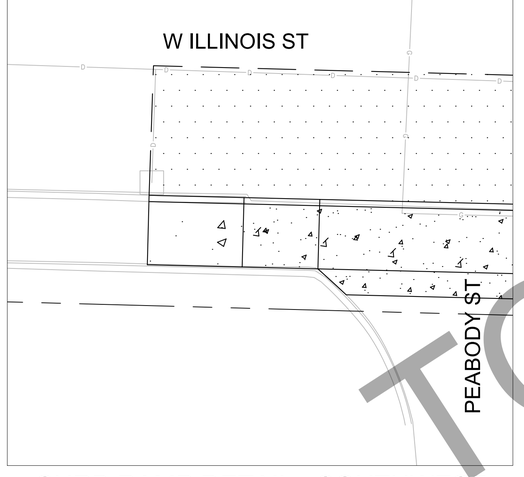


CURB RAMP DETAIL - NORTHWEST
W ILLINOIS ST & PEABODY ST



CURB RAMP DETAIL - NORTHEAST
W ILLINOIS ST & PEABODY ST



CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & PEABODY ST

CURB RAMP DETAIL - SOUTHEAST
W ILLINOIS ST & PEABODY ST

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA–COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA–COMPLIANT CURB RAMPS DURING CONSTRUCTION.
3. SAWCUT CURB, GUTTER, AND SIDEWALK FOR REMOVAL AT EXPANSION JOINTS ONLY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. CURB RAMP LENGTHS MAY BE ADJUSTED TO ACHIEVE REQUIRED SLOPES AND TO ACCOMMODATE EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CURB RAMP THAT CANNOT BE CONSTRUCTED TO FULL COMPLIANCE PRIOR TO PLACING CONCRETE. ANY WORK THAT IS COMPLETE THAT IS NON–COMPLIANCE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

W ILLINOIS ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W ILLINOIS ST – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W ILLINOIS ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W ILLINOIS ST – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

TO BE COMPLETED

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BRENT ADAM BLOCK
STATE OF WASHINGTON
52551
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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PV10

Date	No	Revision	By
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PROJECT ENGINEER BAS
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & PEABODY ST

SHEET 44 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

NOTES

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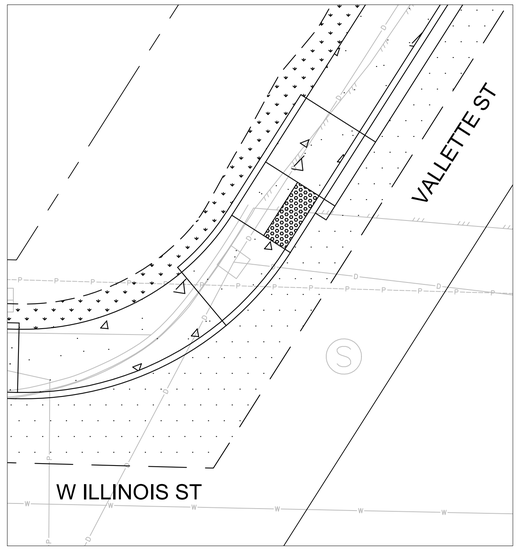
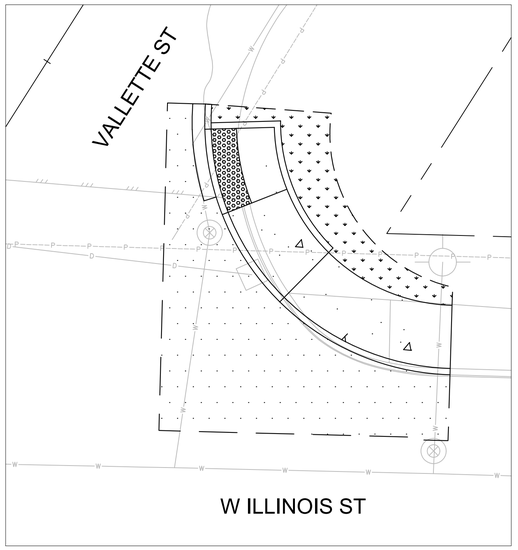
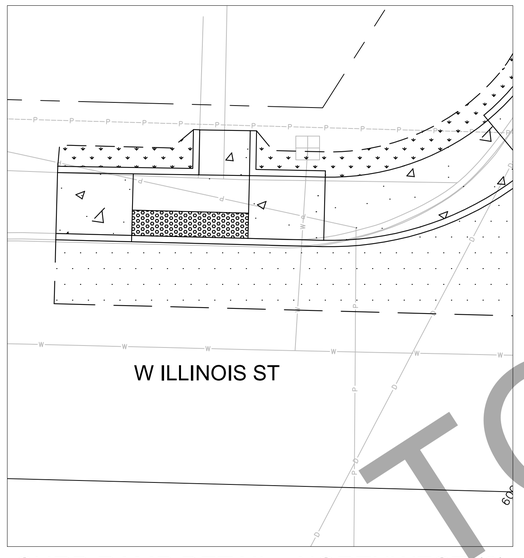
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.



CURB RAMP DETAIL - NORTHWEST (1)
W ILLINOIS ST & VALLETTE ST



CURB RAMP DETAIL - NORTHEAST
W ILLINOIS ST & VALLETTE ST



CURB RAMP DETAIL - NORTHWEST (2)
W ILLINOIS ST & VALLETTE ST

W ILLINOIS ST – NW (1) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NW (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

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PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & VALLETTE ST

SHEET 45 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-DETAILS.DWG

SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA-COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA-COMPLIANT CURB RAMPS DURING CONSTRUCTION.
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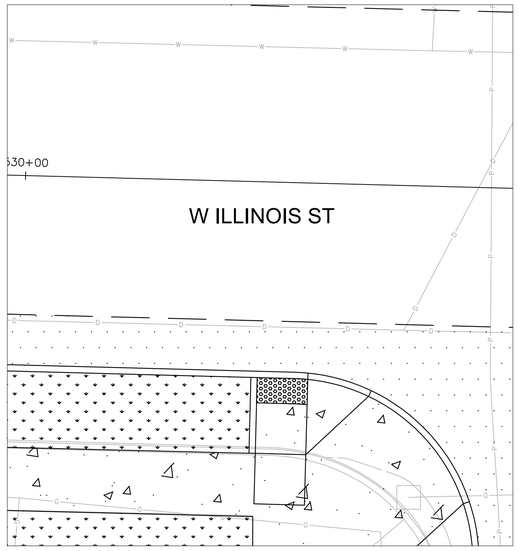
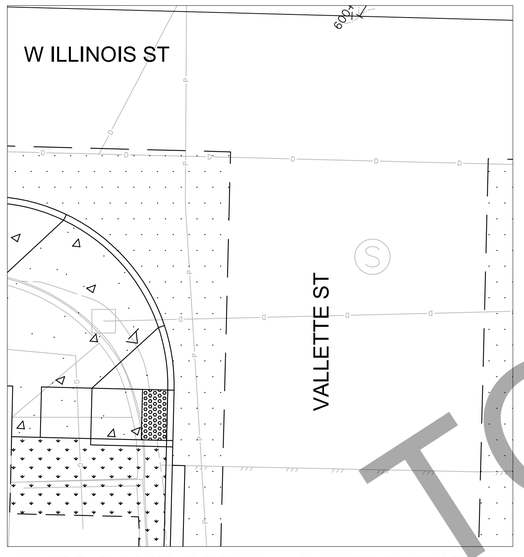


CURB RAMP DETAIL - SOUTHWEST (1)
W ILLINOIS ST & VALLETTE ST



CURB RAMP DETAIL - SOUTHWEST (2)
W ILLINOIS ST & VALLETTE ST

CURB RAMP DETAIL - SOUTHEAST
W ILLINOIS ST & VALLETTE ST

W ILLINOIS ST – SW (1) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SW (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

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STATE OF WASHINGTON
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PRELIMINARY

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PV12

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & VALLETTE ST

SHEET 46 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

NOTES

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3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

CURB RAMP GENERAL NOTES:

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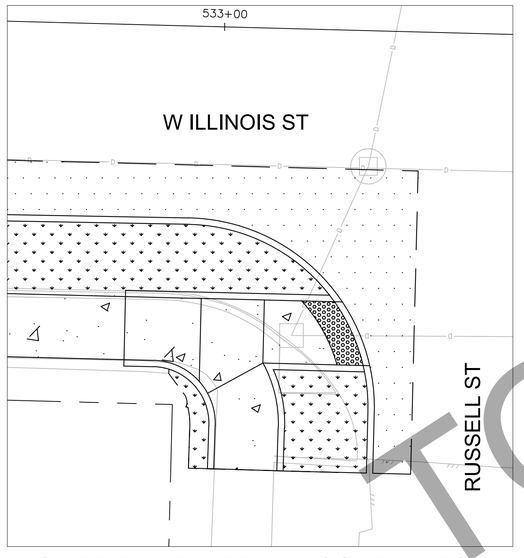
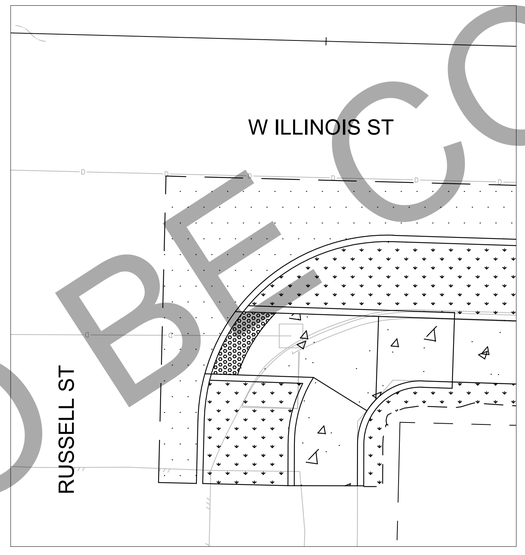


CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & RUSSELL ST



CURB RAMP DETAIL - SOUTHEAST
W ILLINOIS ST & RUSSELL ST

W ILLINOIS ST – SW CURB RAMP DATA													
POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SE CURB RAMP DATA													
POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

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PV13

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & RUSSELL ST

SHEET 47 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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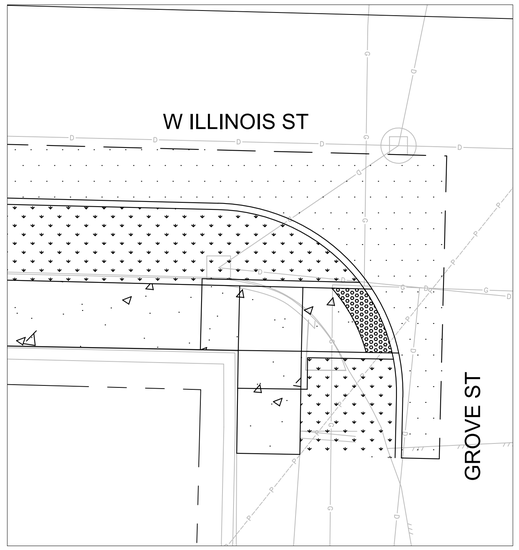
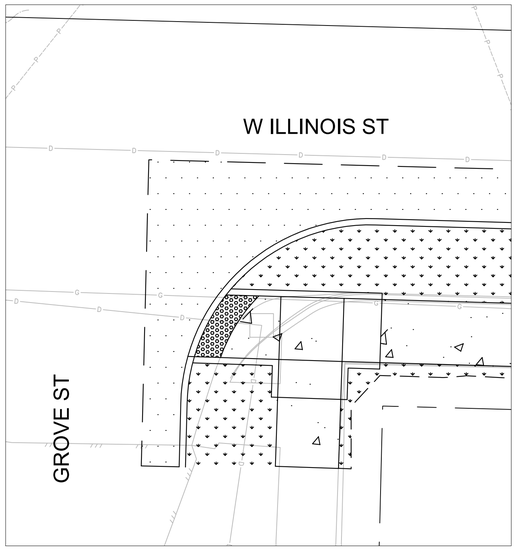
SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & GROVE ST



CURB RAMP DETAIL - SOUTHEAST
W ILLINOIS ST & GROVE ST

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA-COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA-COMPLIANT CURB RAMPS DURING CONSTRUCTION.
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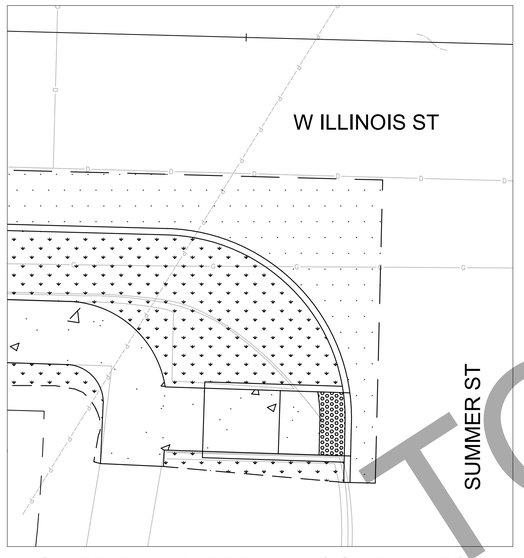
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.



CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & SUMMER ST

W ILLINOIS ST & GROVE ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST & GROVE ST – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST & SUMMER ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

TO BE COMPLETED

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PV14

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & GROVE ST & SUMMER ST

SHEET 48 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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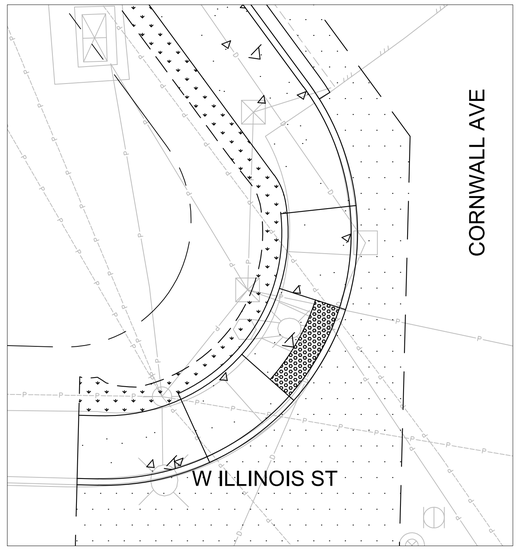
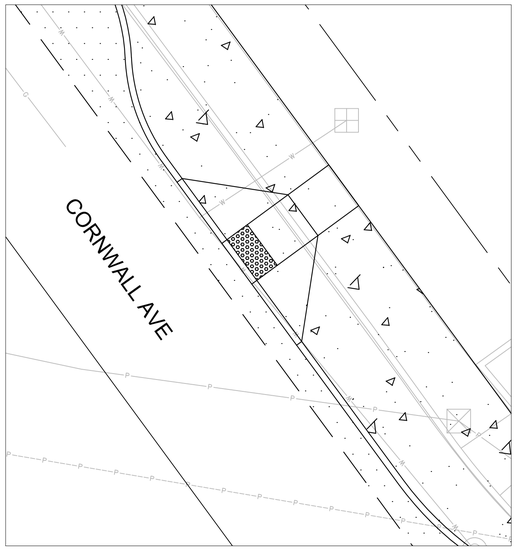
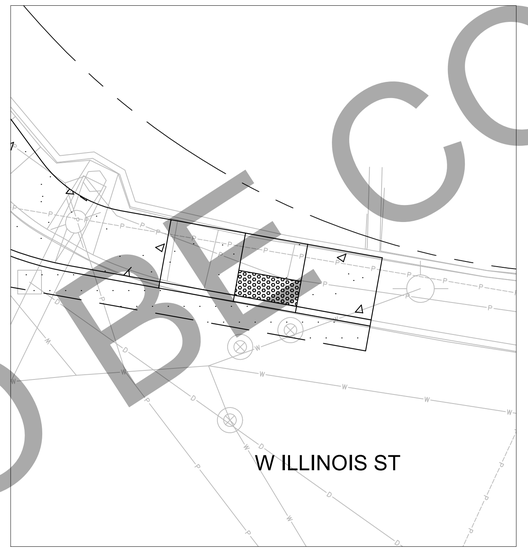
SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - NORTHWEST
W ILLINOIS ST & CORNWALL AVE



CURB RAMP DETAIL - NORTHEAST (1)
W ILLINOIS ST & CORNWALL AVE



CURB RAMP DETAIL - NORTHEAST (2)
W ILLINOIS ST & CORNWALL AVE

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
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6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

W ILLINOIS ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE (1) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

TO BE COMPLETED

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STATE OF WASHINGTON
22551
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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(TEL) 425 821-3665
(FAX) 425 825-8434

PV15

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & CORNWALL AVE

SHEET 49 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

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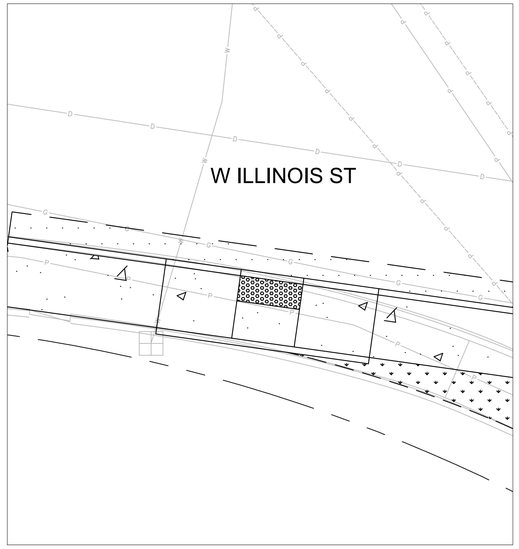
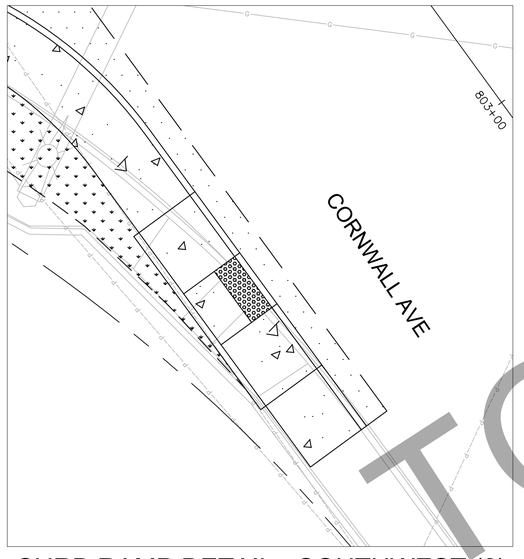
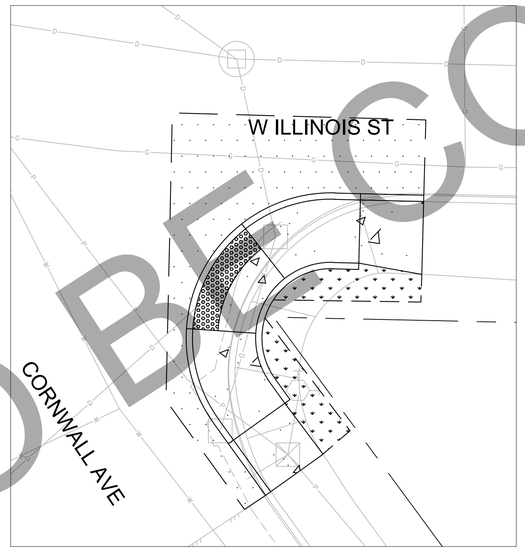


CURB RAMP DETAIL - SOUTHWEST (1)
W ILLINOIS ST & CORNWALL AVE



CURB RAMP DETAIL - SOUTHWEST (2)
W ILLINOIS ST & CORNWALL AVE



CURB RAMP DETAIL - SOUTHEAST
W ILLINOIS ST & CORNWALL AVE

W ILLINOIS ST – SW (1) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SW (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

TO BE COMPLETED

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PV16

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

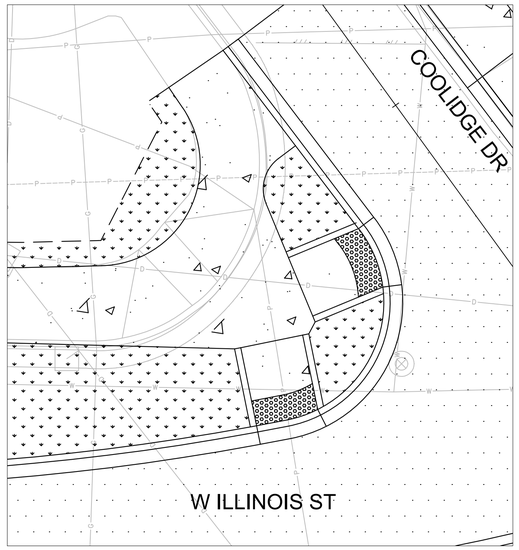
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & CORNWALL AVE

SHEET 50 OF 102

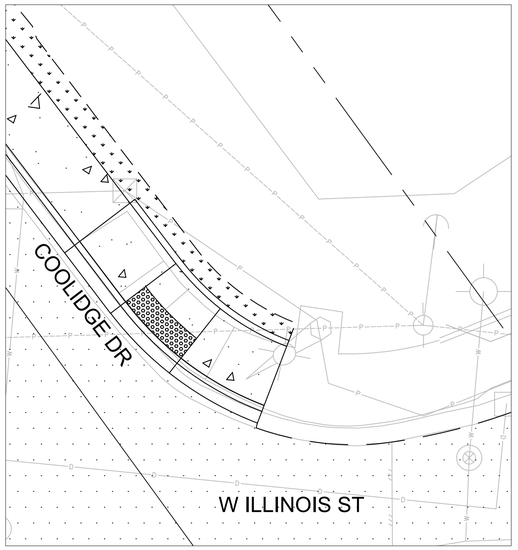
CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1-21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-DETAILS.DWG

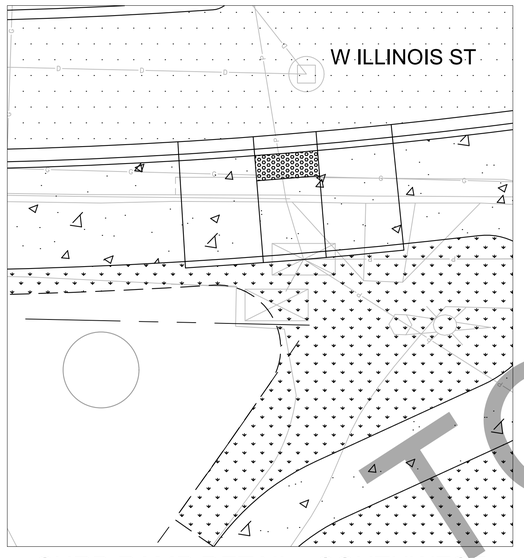
SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - NORTHWEST
W ILLINOIS ST & COOLIDGE DR



CURB RAMP DETAIL - NORTHEAST
W ILLINOIS ST & COOLIDGE DR



CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & COOLIDGE DR

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA–COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA–COMPLIANT CURB RAMPS DURING CONSTRUCTION.
3. SAWCUT CURB, GUTTER, AND SIDEWALK FOR REMOVAL AT EXPANSION JOINTS ONLY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. CURB RAMP LENGTHS MAY BE ADJUSTED TO ACHIEVE REQUIRED SLOPES AND TO ACCOMMODATE EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CURB RAMP THAT CANNOT BE CONSTRUCTED TO FULL COMPLIANCE PRIOR TO PLACING CONCRETE. ANY WORK THAT IS COMPLETE THAT IS NON–COMPLIANCE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

TO BE COMPLETED

W ILLINOIS ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

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BRETT ADAM BLOCK
STATE OF WASHINGTON
52551
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3665
(FAX) 425 825-8434

PV17

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

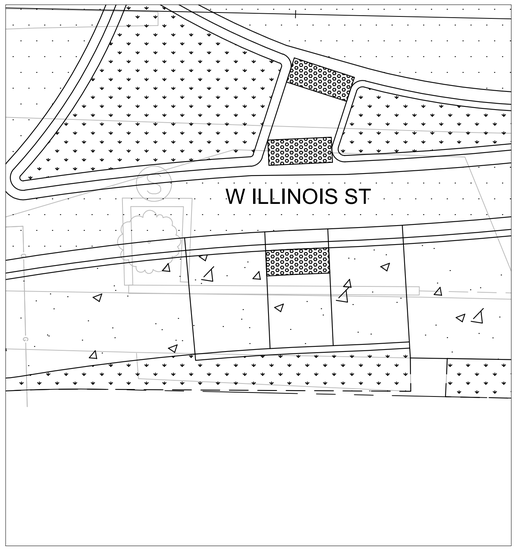
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & COOLIDGE DR

SHEET 51 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-DETAILS.DWG

SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - SOUTHEAST (1)
W ILLINOIS ST & SUNSET DR

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA–COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA–COMPLIANT CURB RAMPS DURING CONSTRUCTION.
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2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

NOT COMPLETED

W ILLINOIS ST – SE (1) CURB RAMP DATA

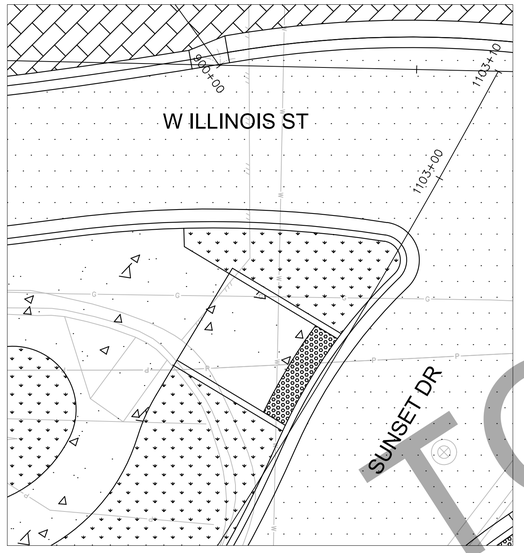
POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SW CURB RAMP DATA

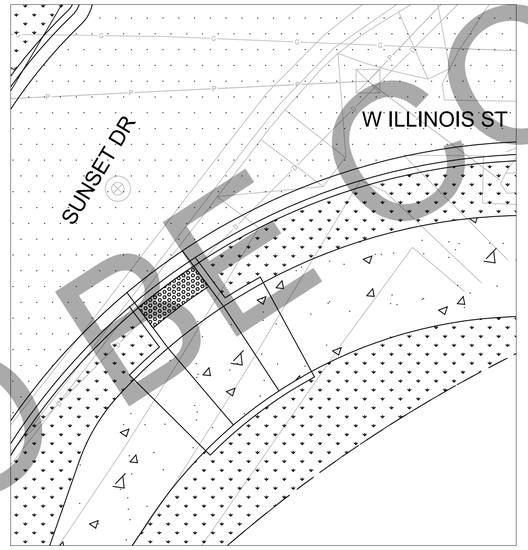
POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – SE (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	



CURB RAMP DETAIL - SOUTHWEST
W ILLINOIS ST & SUNSET DR



CURB RAMP DETAIL - SOUTHEAST (2)
W ILLINOIS ST & SUNSET DR

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PV18

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & SUNSET DR

SHEET 52 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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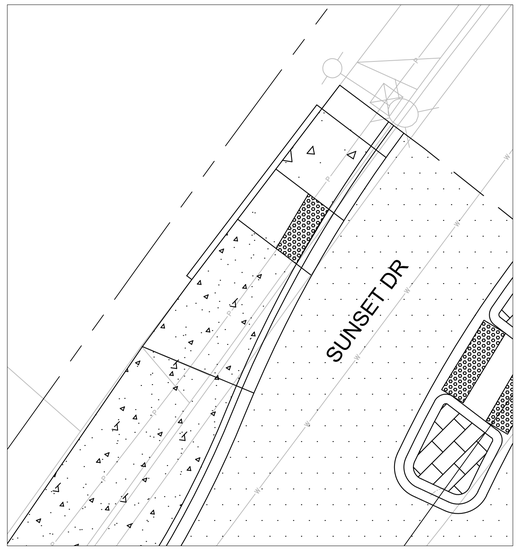
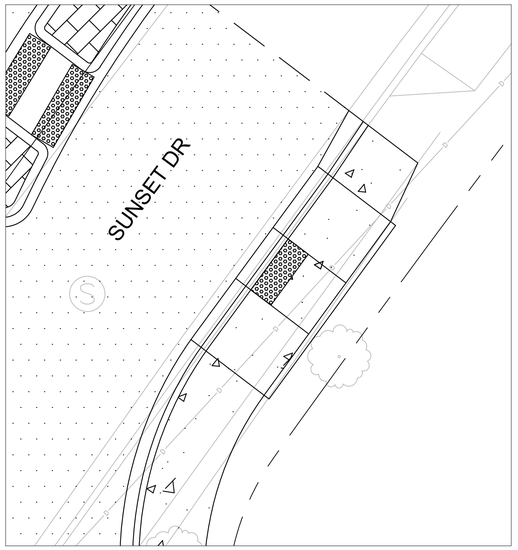
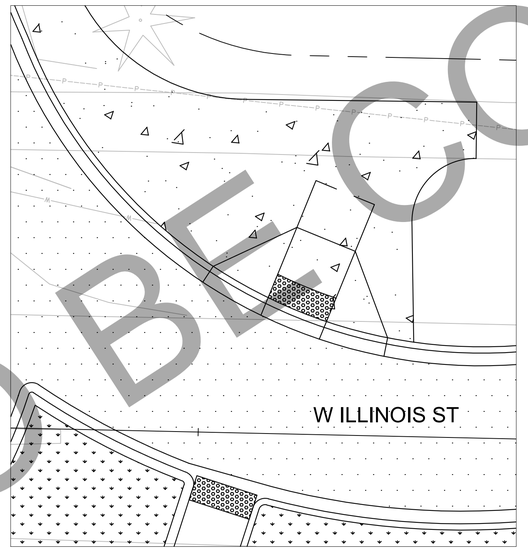
SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - NORTHWEST
W ILLINOIS ST & SUNSET DR



CURB RAMP DETAIL - NORTHEAST (1)
W ILLINOIS ST & SUNSET DR



CURB RAMP DETAIL - NORTHEAST (2)
W ILLINOIS ST & SUNSET DR

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA–COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA–COMPLIANT CURB RAMPS DURING CONSTRUCTION.
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4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

W ILLINOIS ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE (1) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W ILLINOIS ST – NE (2) CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

TO BE COMPLETED

90% SUBMITTAL

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KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3665
(FAX) 425 825-8434

PV19

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W ILLINOIS ST & SUNSET DR

SHEET 53 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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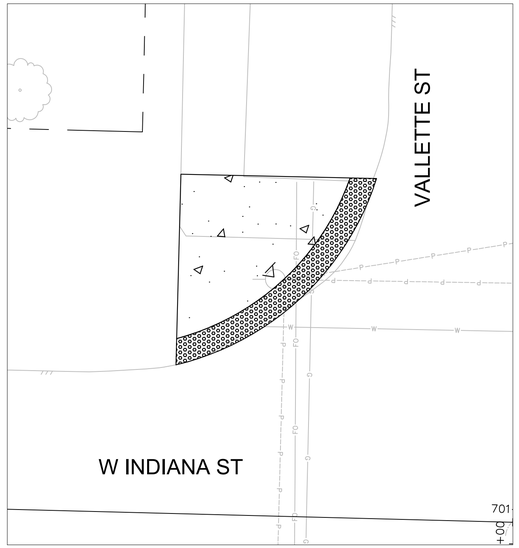
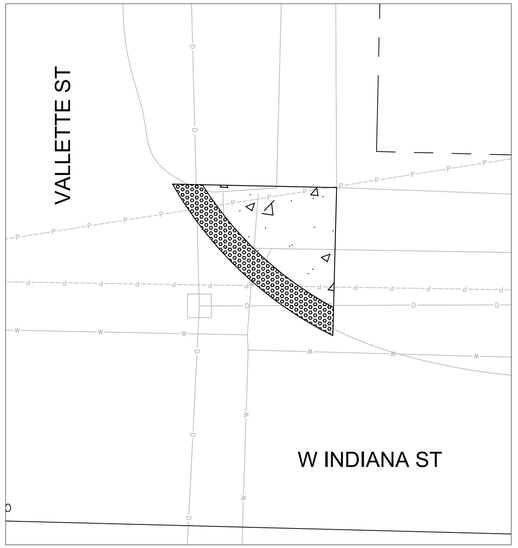
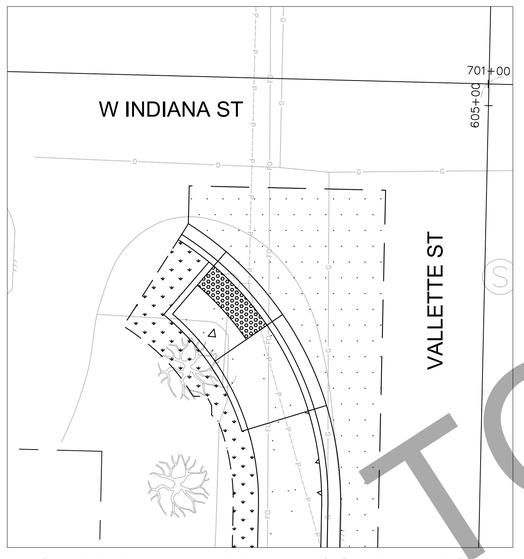
SEC.19 T.38N. R.3E. W.M.



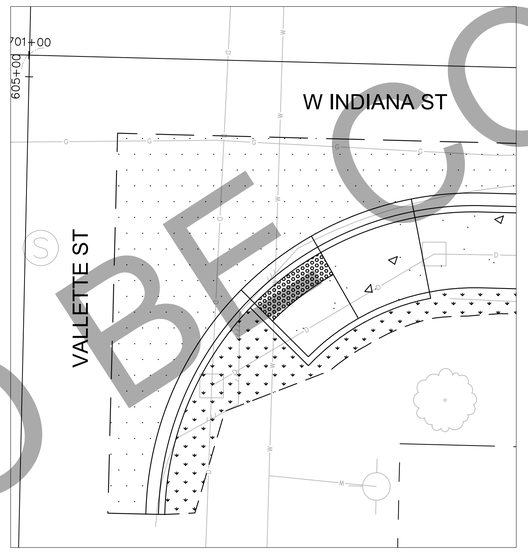
CURB RAMP DETAIL - NORTHWEST
W INDIANA ST & VALLETTE ST



CURB RAMP DETAIL - NORTHEAST
W INDIANA ST & VALLETTE ST



CURB RAMP DETAIL - SOUTHWEST
W INDIANA ST & VALLETTE ST



CURB RAMP DETAIL - SOUTHEAST
W INDIANA ST & VALLETTE ST

CURB RAMP GENERAL NOTES:

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5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

W INDIANA ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W INDIANA ST – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W INDIANA ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

W INDIANA ST – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

TO BE COMPLETED

90% SUBMITTAL

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BRENT ADAM BLOCK
STATE OF WASHINGTON
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12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3665
(FAX) 425 825-8434

PV20

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
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CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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Vert. AS NOTED

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Date 10/02/2023
Field Bk.

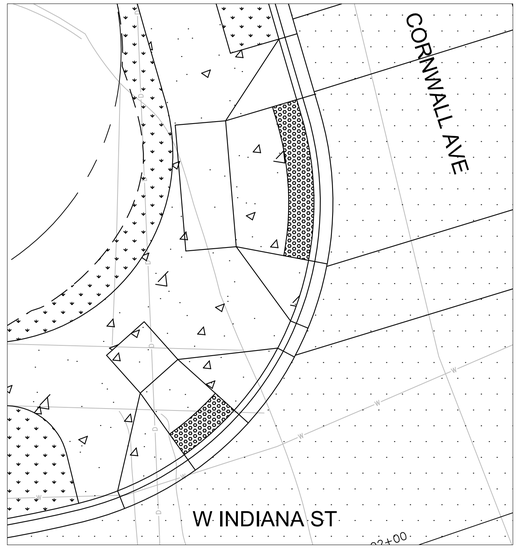
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W INDIANA ST & VALLETTE ST

SHEET 54 OF 102

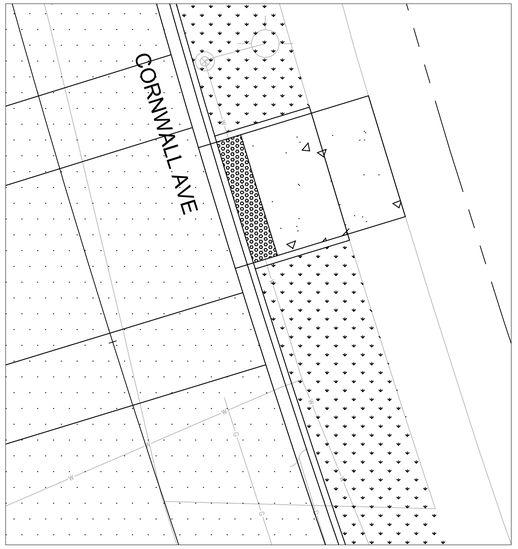
CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-PAVING-DETAILS.DWG

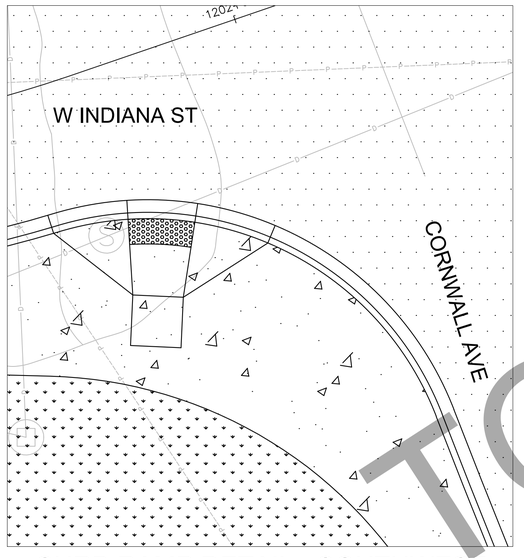
SEC.19 T.38N. R.3E. W.M.



CURB RAMP DETAIL - NORTHWEST
W INDIANA ST & CORNWALL AVE



CURB RAMP DETAIL - NORTHEAST
W INDIANA ST & CORNWALL AVE



CURB RAMP DETAIL - SOUTHWEST
W INDIANA ST & CORNWALL AVE

CURB RAMP GENERAL NOTES:

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4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

TO BE COMPLETED

W INDIANA ST – NW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W INDIANA ST – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

W INDIANA ST – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW			
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	

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PRELIMINARY

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PV21

Date	No	Revision	By
	4		
	3		
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PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - W INDIANA ST & CORNWALL AVE

SHEET 55 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE NT01 & NT02 FOR GENERAL NOTES & TESC NOTES.
2. SEE LGFOR LEGEND.
3. SEE SHEETS DM01 - DM10 FOR DEMOLITION LIMITS.
4. SEE SHEETS TS01 - TS03 FOR TYPICAL SECTIONS.
5. SEE SHEETS EC01 - SD10 FOR DRAINAGE DETAILS.
6. SEE SHEETS ##### - ##### FOR STANDARD PLANS & DETAILS.

CURB RAMP GENERAL NOTES:

1. SEE SHEET PV09 FOR CONSTRUCTION NOTES AND LEGEND.
2. FIELD STAKE FINAL CURB, GUTTER, SIDEWALK, AND CURB RAMP. LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE INTENT OF THESE CONSTRUCTION DETAILS IS TO PROVIDE ADA–COMPLIANT CURB RAMPS. THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT BY THE ENGINEER TO ACHIEVE ADA–COMPLIANT CURB RAMPS DURING CONSTRUCTION.
3. SAWCUT CURB, GUTTER, AND SIDEWALK FOR REMOVAL AT EXPANSION JOINTS ONLY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
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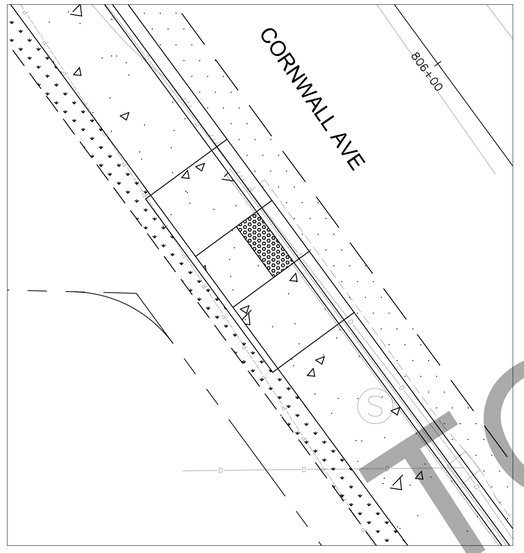
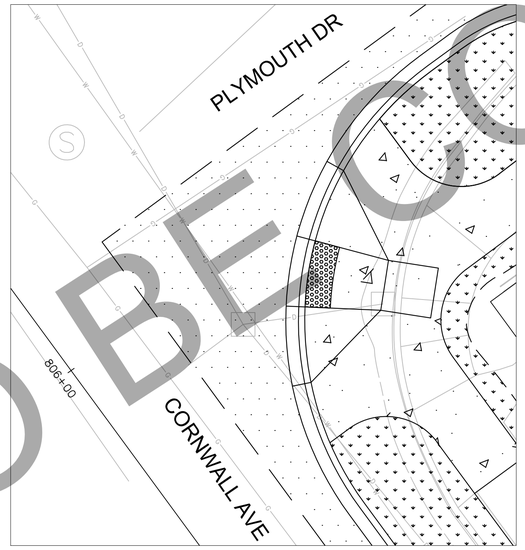


CURB RAMP DETAIL - SOUTHWEST
PLYMOUTH DR & CORNWALL AVE



CURB RAMP DETAIL - SOUTHEAST
PLYMOUTH DR & CORNWALL AVE

CORNWALL AVE – SW CURB RAMP DATA													
POINT	SAWCUT			FL			BOC			BSW			
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CORNWALL AVE – SE CURB RAMP DATA													
POINT	SAWCUT			FL			BOC			BSW			
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PV22

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CITY ENGINEER C.M.A.S.
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CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS - PLYMOUTH DR & CORNWALL AVE

SHEET 56 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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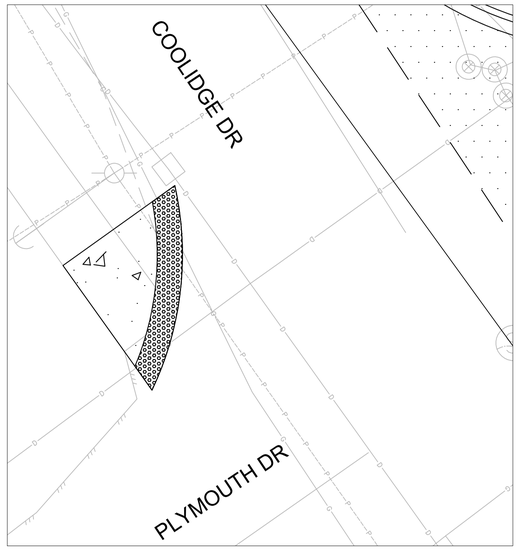
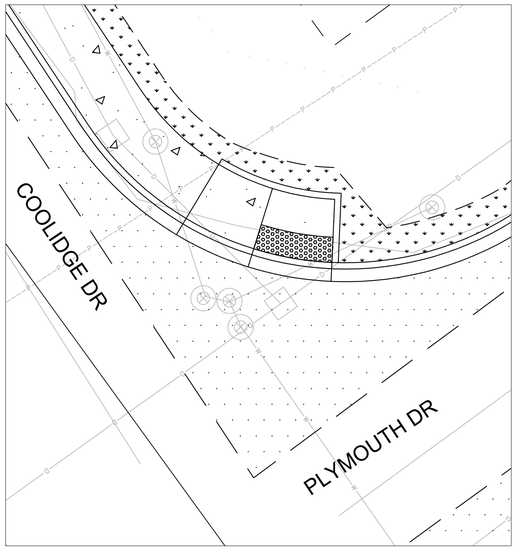
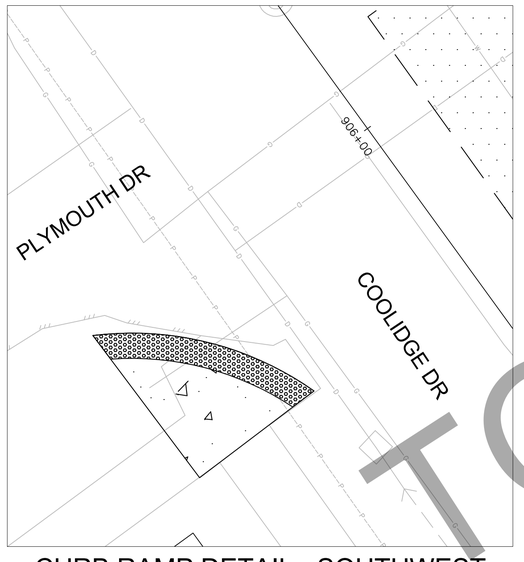


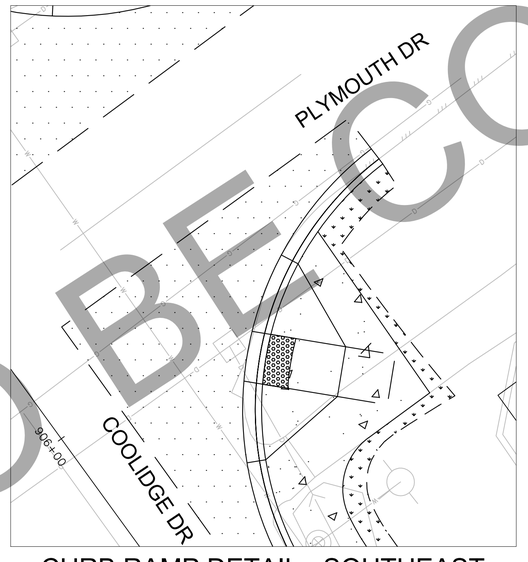
CURB RAMP DETAIL - NORTHWEST
PLYMOUTH DR & COOLIDGE DR



CURB RAMP DETAIL - NORTHEAST
PLYMOUTH DR & COOLIDGE DR



CURB RAMP DETAIL - SOUTHWEST
PLYMOUTH DR & COOLIDGE DR



CURB RAMP DETAIL - SOUTHEAST
PLYMOUTH DR & COOLIDGE DR

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COOLIDGE DR – NW CURB RAMP DATA

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COOLIDGE DR – NE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

COOLIDGE DR – SW CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

COOLIDGE DR – SE CURB RAMP DATA

POINT	SAWCUT			FL			BOC			BSW		
	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.	STA.	OFF.	ELEV.

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DIRECTOR PUBLIC WORKS E.C.J
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SHEET 57 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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EROSION CONTROL NOTES:

THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS OR CONTRACTOR CONSTRUCTION METHODS AND TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.

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

ANY DRAINAGE CONVEYANCE DISCOVERED DURING CONSTRUCTION WILL BE REMOVED OR CONNECTED TO THE NEW DRAINAGE SYSTEM WITH THE DIRECTION OF THE ENGINEER. DISTURBED SOILS SHALL BE MULCHED.

SAWCUTTING SLURRY AND CUTTINGS SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS.

DURING ANY DITCH, CREEK, OR DRAINAGE WORK RUNOFF SHALL BE DIVERTED AROUND THE PROJECT WITH A PUMP, DIVERSIONS, BARRIERS, OR OTHER ADEQUATE METHODS APPROVED BY THE ENGINEER.

CONTRACTOR SHALL PROVIDE TREATMENT (AS NEEDED) TO WATER COLLECTED DURING DEWATERING FROM CREEK BEFORE DISCHARGING BACK TO CREEK TO PREVENT VIOLATION OF PERMITS AND ALLOWED MIXING ZONE. THESE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE CITY. METHODS FOR DEWATERING AND TREATMENT SHALL BE PROVIDED INT THE STREAM DIVERSION PLANS AND PROVIDED A MINIMUM OF 30 WORKING DAYS PRIOR TO PERFORMING THE WORK.

ENVIRONMENTAL NOTES:

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH BMC 15.42 AND THE 2012 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (AS AMENDED) ADDRESSING ALL APPLICABLE MINIMUM REQUIREMENTS. THE AREAS OF NEW AND/OR REPLACED IMPERVIOUS SURFACE ARE INCLUDED IN THE SWPPP. THE PLAN HAS BEEN REVIEWED & APPROVED BY THE CITY OF BELLINGHAM. THE CITY STORMWATER PERMIT SHALL BE PAID FOR AND PROVIDED BY CITY OF BELLINGHAM. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT TRANSFER WHEN REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE STORMWATER PREVENTION PLAN (SWPPP) AS NEEDED BASED ON THEIR CONSTRUCTION METHODS

ELEMENTS OF CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER BMC 15.42.060 (F)(2)(E):

ELEMENT 1 – PRESERVE VEGETATION/MARK CLEARING LIMITS

PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA SHOULD BE CLEARLY MARKED, BOTH IN THE FIELD AND ON THE PLANS, TO PREVENT DAMAGE AND OFF-SITE IMPACTS. PLASTIC, METAL, OR STAKE WIRE FENCE MAY BE USED TO MARK THE CLEARING LIMITS. RETAIN THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.

ELEMENT 2 – ESTABLISH CONSTRUCTION ACCESS

(A) CONSTRUCTION VEHICLE ACCESS AND EXIT SHALL BE LIMITED TO ONE ROUTE IF POSSIBLE.

(B) ACCESS POINTS SHALL BE STABILIZED WITH QUARRY SPALLS OR CRUSHED ROCK TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.

(C) WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON SITE, IF APPLICABLE.

(D) PUBLIC ROADS SHALL AT A MINIMUM BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

(E) STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON SITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS.

(F) CONTROL STREET WASH WASTEWATER BY PUMPING BACK ON SITE, OR OTHERWISE PREVENT IT FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.

ELEMENT 3 – CONTROL FLOW RATES

(A) PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM OF DEVELOPMENT SITES FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATERS DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.

(B) PROPERTIES SUBJECT TO MINIMUM REQUIREMENT NO. 5 AND/OR NO. 7 SHALL IMPLEMENT CONTROLS AS EARLY IN THE DEVELOPMENT AS IS PRACTICABLE TO MITIGATE FOR FLOW RATES.

(C) WHERE NECESSARY TO COMPLY WITH MINIMUM REQUIREMENT NO. 7, STORMWATER RETENTION/DETENTION FACILITIES SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. DETENTION FACILITIES SHALL BE FUNCTIONAL PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS (E.G., IMPERVIOUS SURFACES).

(D) IF PERMANENT INFILTRATION PONDS ARE USED FOR FLOW CONTROL DURING CONSTRUCTION, THESE FACILITIES SHOULD BE PROTECTED FROM SILTATION DURING THE CONSTRUCTION PHASE.

ELEMENT 4 – INSTALL SEDIMENT CONTROLS

(A) DESIGN, INSTALL, AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS.

(B) CONSTRUCT SEDIMENT CONTROL BMPS (SEDIMENT PONDS, TRAPS, FILTERS, ETC.) AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPS SHALL BE FUNCTIONAL BEFORE OTHER LAND-DISTURBING ACTIVITIES TAKE PLACE.

(C) MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORMWATER RUNOFF, AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.

(D) DIRECT STORMWATER RUNOFF FROM DISTURBED AREAS THROUGH A SEDIMENT POND OR OTHER APPROPRIATE SEDIMENT REMOVAL BMP, BEFORE THE RUNOFF LEAVES A CONSTRUCTION SITE OR BEFORE DISCHARGE TO AN INFILTRATION FACILITY. RUNOFF FROM FULLY STABILIZED AREAS MAY BE DISCHARGED WITHOUT A SEDIMENT REMOVAL BMP, BUT MUST MEET THE FLOW CONTROL PERFORMANCE STANDARD IN SUBSECTION (F)(2)(E)(III)(A) OF THIS SECTION.

(E) LOCATE BMPS INTENDED TO TRAP SEDIMENT ON SITE IN A MANNER TO AVOID INTERFERENCE WITH THE MOVEMENT OF JUVENILE SALMONIDS ATTEMPTING TO ENTER OFF-CHANNEL AREAS OR DRAINAGES.

(F) WHERE FEASIBLE, DESIGN OUTLET STRUCTURES THAT WITHDRAW IMPOUNDED STORMWATER FROM THE SURFACE TO AVOID DISCHARGING SEDIMENT THAT IS STILL SUSPENDED LOWER IN THE WATER COLUMN.

ELEMENT 5 – STABILIZE SOILS

(A) ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPS THAT PROTECT THE SOIL FROM THE EROSIVE FORCES OF RAINDROP IMPACT AND FLOWING WATER, AND WIND EROSION. APPLICABLE BMPS INCLUDE, BUT ARE NOT LIMITED TO: TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), THE EARLY APPLICATION OF GRAVEL BASE EARLY ON AREAS TO BE PAVED, AND DUST CONTROL.

(B) CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION.

(C) CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION.

(D) FROM OCTOBER 1ST THROUGH APRIL 30TH OF EACH YEAR, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1ST TO SEPTEMBER 30TH OF EACH YEAR, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS. THIS CONDITION APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT.

(E) STABILIZE SOILS AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.

(F) MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY.

(G) MINIMIZE THE DISTURBANCE OF STEEP SLOPES.

(H) MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

(I) APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.

(J) SOIL STABILIZATION MEASURES SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND POTENTIAL WATER QUALITY IMPACTS THAT STABILIZATION AGENTS MAY HAVE ON DOWNSTREAM WATERS OR GROUND WATER.

(K) SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES AND, WHERE POSSIBLE, LOCATE AWAY FROM STORM DRAIN INLETS, WATERWAYS AND DRAINAGE CHANNELS.

(L) WORK ON LINEAR CONSTRUCTION SITES AND ACTIVITIES, INCLUDING RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL NOT EXCEED THE CAPABILITY OF THE INDIVIDUAL CONTRACTOR FOR HIS PORTION OF THE PROJECT TO INSTALL THE BEDDING MATERIALS, ROADBEDS, STRUCTURES, PIPELINES, AND/OR UTILITIES, AND TO STABILIZE THE DISTURBED SOILS, MEETING THE TIMING CONDITIONS LISTED ABOVE.I

(M) N ADDITION, AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR, THOSE SITES UNABLE TO MAINTAIN THE QUALITY OF THEIR STORMWATER DISCHARGE MAY BE REQUIRED TO PROVIDE SOIL STABILIZATION TO ALL EXPOSED SOIL AREAS REGARDLESS OF THE WORKING STATUS OF THE AREA. UPON WRITTEN NOTIFICATION, THE PROPERTY OWNER SHALL PROVIDE FULL STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 24 HOURS.

ELEMENT 6 – PROTECT SLOPES

(A) CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED 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 (FOR EXAMPLE, TRACK WALKING).

(B) CONSIDER SOIL TYPE AND ITS POTENTIAL FOR EROSION.

(C) REDUCE SLOPE RUNOFF VELOCITIES BY REDUCING THE CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND DIVERSIONS, REDUCE SLOPE STEEPNESS, AND ROUGHEN SLOPE SURFACE.

(D) DIVERT UP-SLOPE DRAINAGE AND RUN-ON WATERS FROM OFF SITE WITH INTERCEPTORS AT THE TOP OF SLOPE. OFF-SITE STORMWATER SHOULD BE HANDLED SEPARATELY FROM STORMWATER GENERATED ON THE SITE. DIVERSION OF OFF-SITE STORMWATER AROUND THE SITE MAY BE A VIABLE OPTION. DIVERTED FLOWS SHALL BE REDIRECTED TO THE NATURAL DRAINAGE LOCATION AT OR BEFORE THE PROPERTY BOUNDARY.

(E) CONTAIN DOWN SLOPE COLLECTED FLOWS IN PIPES, SLOPE DRAINS, OR PROTECTED CHANNELS TO PREVENT EROSION. TEMPORARY PIPE SLOPE DRAINS MUST HANDLE THE PEAK VOLUMETRIC FLOW RATE CALCULATED USING A 10-MINUTE TIME STEP FROM A TYPE 1A, 10-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION. ALTERNATIVELY, THE 10-YEAR ONE-HOUR FLOW RATE PREDICTED BY AN APPROVED CONTINUOUS RUNOFF MODEL, INCREASED BY A FACTOR OF 1.6, MAY BE USED. THE HYDROLOGIC ANALYSIS MUST USE THE EXISTING LAND COVER CONDITION FOR PREDICTING FLOW RATES FROM TRIBUTARY AREAS OUTSIDE THE PROJECT LIMITS. FOR TRIBUTARY AREAS ON THE PROJECT SITE, THE ANALYSIS MUST USE THE TEMPORARY OR PERMANENT PROJECT LAND COVER CONDITION, WHICHEVER WILL PRODUCE THE HIGHEST FLOW RATES. IF USING THE WESTERN WASHINGTON HYDROLOGY MODEL TO PREDICT FLOWS, BARE SOIL AREAS SHOULD BE MODELED AS 'LANDSCAPED AREA.'.

(F) PROVIDE DRAINAGE TO REMOVE GROUND WATER INTERSECTING THE SLOPE SURFACE OF EXPOSED SOIL AREAS.

(G) EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.

(H) CHECK DAMS SHALL BE PLACED AT REGULAR INTERVALS WITHIN TRENCHES THAT ARE CUT DOWN A SLOPE.

(I) STABILIZE SOILS ON SLOPES, AS SPECIFIED IN ELEMENT NO. 5.

ELEMENT 7 – PROTECT DRAIN INLETS

(A) ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT BEING FILTERED OR TREATED TO REMOVE SEDIMENT.

(B) ALL APPROACH ROADS SHALL BE KEPT CLEAN, AND ALL SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT UNLESS TREATMENT IS PROVIDED BEFORE THE STORM DRAIN DISCHARGES TO WATERS OF THE STATE.

ELEMENT 8 – STABILIZE CHANNELS AND OUTLETS

(A) ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED, CONSTRUCTED AND STABILIZED TO PREVENT EROSION FROM EXPECTED PEAK FLOWS. CHANNELS MUST HANDLE THE PEAK VOLUMETRIC FLOW RATE CALCULATED USING A 10-MINUTE TIME STEP FROM A TYPE 1A, 10-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION. ALTERNATIVELY, THE 10-YEAR, ONE-HOUR FLOW RATE INDICATED BY AN APPROVED CONTINUOUS RUNOFF MODEL, INCREASED BY A FACTOR OF 1.6, MAY BE USED. THE HYDROLOGIC ANALYSIS MUST USE THE EXISTING LAND COVER CONDITION FOR PREDICTING FLOW RATES FROM TRIBUTARY AREAS OUTSIDE THE PROJECT LIMITS. FOR TRIBUTARY AREAS ON THE PROJECT SITE, THE ANALYSIS SHALL USE THE TEMPORARY OR PERMANENT PROJECT LAND COVER CONDITION, WHICHEVER WILL PRODUCE THE HIGHEST FLOW RATES. IF USING THE WESTERN WASHINGTON HYDROLOGY MODEL TO PREDICT FLOWS, BARE SOIL AREAS SHOULD BE MODELED AS "LANDSCAPED AREA".

(B) STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES AND DOWNSTREAM REACHES SHALL BE PROVIDED AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.

ELEMENT 9 – CONTROL POLLUTANTS

(A) DESIGN, INSTALL, IMPLEMENT AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS.

(B) ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

(C) COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC, AS CURRENTLY ENACTED OR HEREAFTER MODIFIED, FOR THE DEFINITION OF INERT WASTE, WHICH IS INCORPORATED HEREIN BY THIS REFERENCE).

(D) MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.

(E) WHEEL WASH, OR TIRE BATH WASTEWATER, SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER.

(F) APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED FOR APPLICATION RATES AND PROCEDURES.

(G) MANAGEMENT OF PH-MODIFYING SOURCES SHALL PREVENT CONTAMINATION OF RUNOFF AND STORMWATER COLLECTED ON THE SITE. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.

(H) ADJUST THE PH OF STORMWATER IF NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.

(I) ASSURE THAT WASHOUT OF CONCRETE TRUCKS IS PERFORMED OFF SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT DUMP EXCESS CONCRETE ON SITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. CONCRETE SPILLAGE OR CONCRETE DISCHARGE TO SURFACE WATERS OF THE STATE IS PROHIBITED.

(J) OBTAIN WRITTEN APPROVAL FROM ECOLOGY BEFORE USING CHEMICAL TREATMENT OTHER THAN CO2 OR DRY ICE TO ADJUST PH.

ELEMENT 10 – CONTROL DE-WATERING

(A) ALL FOUNDATION, VAULT, AND TRENCH DEWATERING WATER, WHICH HAVE SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM, PRIOR TO DISCHARGE TO A SEDIMENT TRAP OR SEDIMENT POND. CHANNELS MUST BE STABILIZED, AS SPECIFIED IN

(B) CLEAN, NON-TURBID DEWATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS, AS SPECIFIED IN ELEMENT NO. 8, PROVIDED THE DEWATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF THE RECEIVING WATERS. THESE CLEAN WATERS SHOULD NOT BE ROUTED THROUGH SEDIMENT PONDS WITH STORMWATER.

(C) HIGHLY TURBID OR OTHERWISE CONTAMINATED DEWATERING WATER, SUCH AS FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM, SHALL BE HANDLED SEPARATELY FROM STORMWATER AT THE SITE.

(D) OTHER DISPOSAL OPTIONS, DEPENDING ON SITE CONSTRAINTS, MAY INCLUDE, BY WAY OF EXAMPLE: (1) INFILTRATION, (2) TRANSPORT OFF SITE IN VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS, (3) ON-SITE TREATMENT USING ECOLOGY APPROVED CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES, (4) SANITARY OR COMBINED SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, OR THERE IS NO OTHER OPTION, (5) USE OF A SEDIMENTATION BAG THAT DISCHARGES TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DEWATERING.

ELEMENT 11 – MAINTAIN BMPS

(A) ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMPS.

(B) SEDIMENT CONTROL BMPS SHALL BE INSPECTED WEEKLY OR AFTER A RUNOFF-PRODUCING STORM EVENT DURING THE DRY SEASON AND DAILY DURING THE WET SEASON. ALL PROJECTS THAT DISTURB AN AREA GREATER THAN ONE ACRE SHALL HAVE A CERTIFIED EROSION CONTROL LEAD AVAILABLE TO THE SITE. THIS EROSION CONTROL LEAD SHALL BE RESPONSIBLE TO PROVIDE OVERVIEW OF ONGOING DAY-TO-DAY EROSION CONTROL REQUIREMENTS. THE EROSION CONTROL LEAD SHALL (WITHIN 24 HOURS) REPORT TO THE CITY AND DEPARTMENT OF ECOLOGY ANY SITE DISCHARGES THAT EXCEED STATE WATER QUALITY STANDARDS THAT HAVE OR ARE LIKELY TO HAVE ENTERED WATERS OF THE STATE.

(C) ALL 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 REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BMPS OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

ELEMENT 12 – MANAGE THE PROJECT

(A) PHASING OF CONSTRUCTION. DEVELOPMENT PROJECTS SHALL BE PHASED WHERE FEASIBLE IN ORDER TO PREVENT, TO THE MAXIMUM EXTENT PRACTICABLE, THE TRANSPORT OF SEDIMENT FROM THE DEVELOPMENT SITE DURING CONSTRUCTION. REVEGETATION OF EXPOSED AREAS AND MAINTENANCE OF THAT VEGETATION SHALL BE AN INTEGRAL PART OF THE CLEARING ACTIVITIES FOR ANY PHASE.

(B) WHEN ESTABLISHING THESE PERMITTED CLEARING AND GRADING AREAS, CONSIDERATION SHOULD BE GIVEN TO MINIMIZING REMOVAL OF EXISTING TREES AND MINIMIZING DISTURBANCE/COMPACTION OF NATIVE SOILS EXCEPT AS NEEDED FOR BUILDING PURPOSES. PERMITTED CLEARING AND GRADING AREAS AND ANY OTHER AREAS REQUIRED TO PRESERVE CRITICAL OR SENSITIVE AREAS, BUFFERS, NATIVE GROWTH PROTECTION EASEMENTS, OR TREE RETENTION AREAS, SHALL BE DELINEATED ON THE SITE PLANS AND THE DEVELOPMENT SITE.

(C) COORDINATION WITH UTILITIES AND OTHER CONTRACTORS. THE PRIMARY PROJECT PROPONENT SHALL EVALUATE, WITH INPUT FROM UTILITIES AND OTHER CONTRACTORS, THE STORMWATER MANAGEMENT REQUIREMENTS FOR THE ENTIRE PROJECT, INCLUDING THE UTILITIES, WHEN PREPARING THE CONSTRUCTION SWPPP.

(D) INSPECTION AND MONITORING. ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

(E) FOR ANY PROJECT DISTURBING MORE THAN ONE ACRE, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL SHALL BE IDENTIFIED IN THE CONSTRUCTION SWPPP AND SHALL BE ON SITE OR ON CALL AT ALL TIMES. CERTIFICATION MAY BE THROUGH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/ASSOCIATED GENERAL CONTRACTORS (WSDOT/AGC) CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL CERTIFICATION PROGRAM OR ANY EQUIVALENT LOCAL OR NATIONAL CERTIFICATION AND/OR TRAINING PROGRAM, IN THE CITY'S DISCRETION.

(F) WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER.

(G) MAINTENANCE OF THE CONSTRUCTION SWPPP. THE CONSTRUCTION SWPPP SHALL BE RETAINED ON SITE. THE CONSTRUCTION SWPPP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.

ELEMENT 13 – PROTECT LOW IMPACT DEVELOPMENT BMPS.

(A) PROTECT ALL BIO-RETENTION AND RAIN GARDEN BMPS FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIO-RETENTION AND/OR RAIN GARDEN BMPS. RESTORE THE BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIO-RETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.

(B) PREVENT COMPACTING BIO-RETENTION 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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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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Job. No. ES-0560 / ES-0561
Date 18/11/2022
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
EROSION CONTROL NOTES & SWPPP ELEMENTS

SHEET 58 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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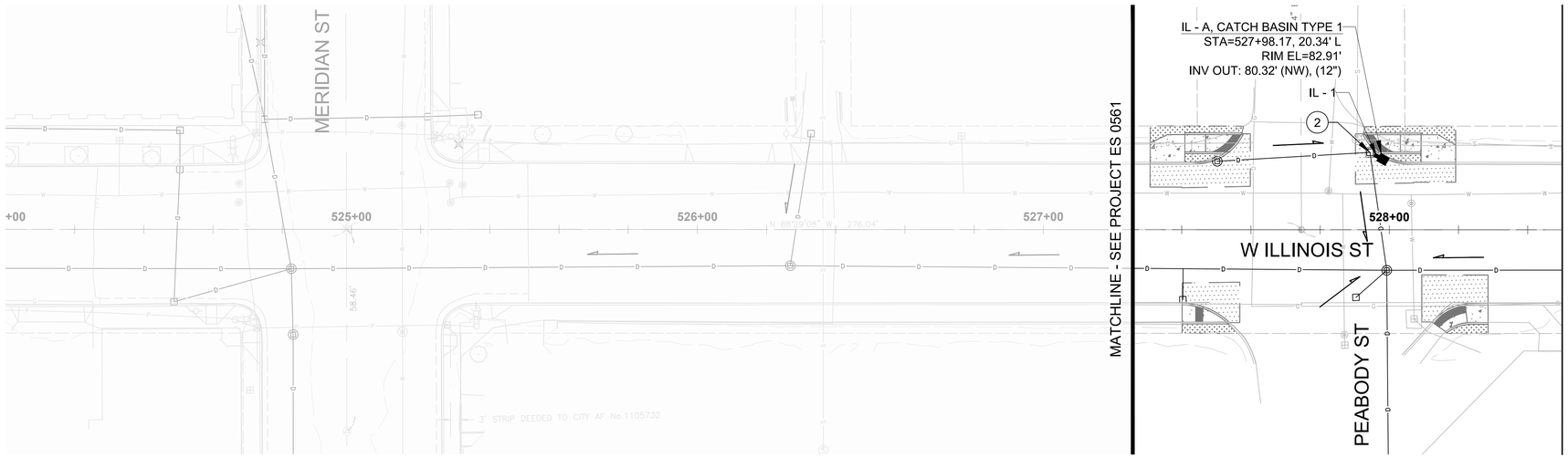
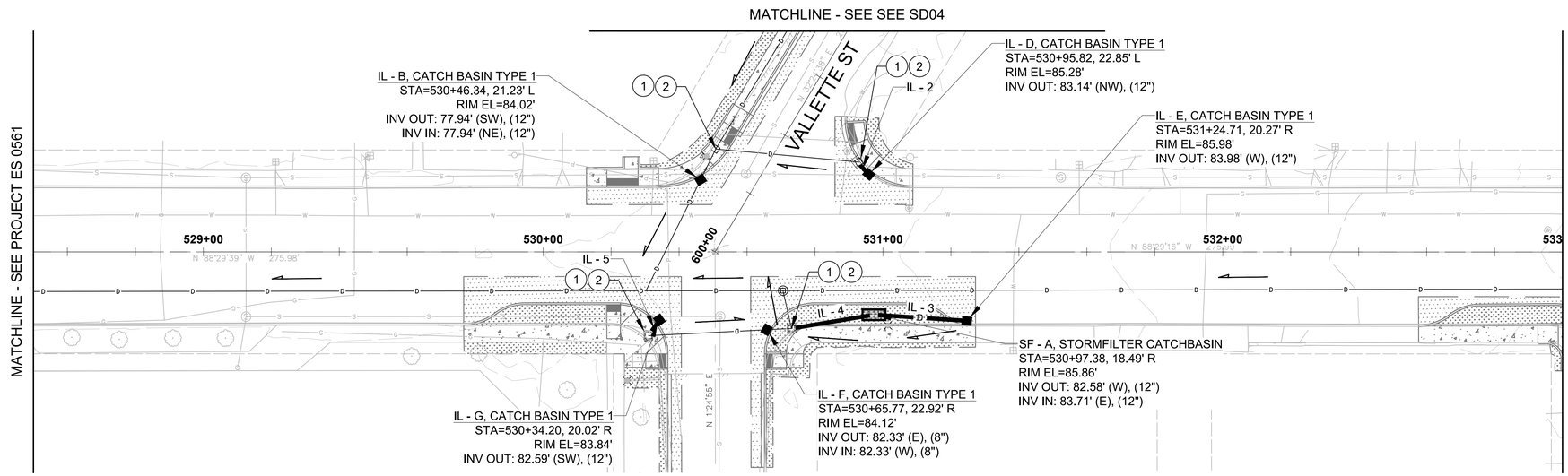
SEC.19 T.38N. R.3E. W.M.





GENERAL NOTES

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(XX) CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 1	12"	CPSSP	4 LF	1.00%	80.28' 80.32'	527+94.42, 22.39' L 527+98.17, 20.34' L
IL - 2	12"	CPSSP	5 LF	1.00%	83.09' 83.14'	530+92.33, 26.51' L 530+95.82, 22.85' L
IL - 3	12"	CPSSP	27 LF	1.00%	83.71' 83.98'	530+97.38, 18.49' R 531+24.71, 20.27' R

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 4	12"	CPSSP	25 LF	1.00%	82.33' 82.58'	530+73.10, 22.55' R 530+97.38, 18.49' R
IL - 5	12"	CPSSP	6 LF	1.00%	82.53' 82.59'	530+30.98, 24.67' R 530+34.20, 20.02' R

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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (1 OF 10)

SHEET 59 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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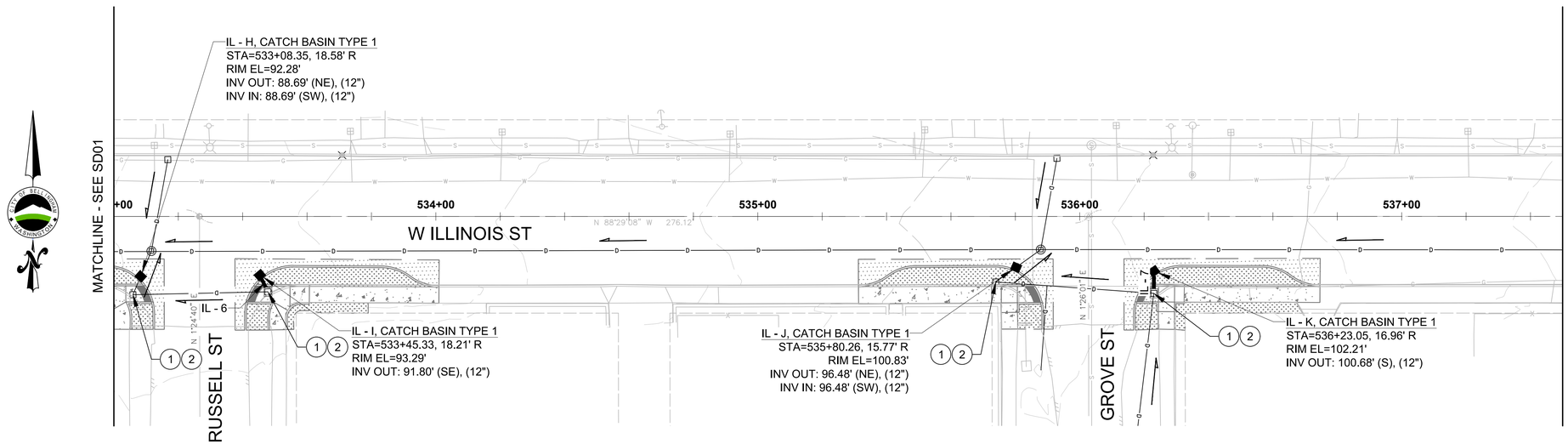

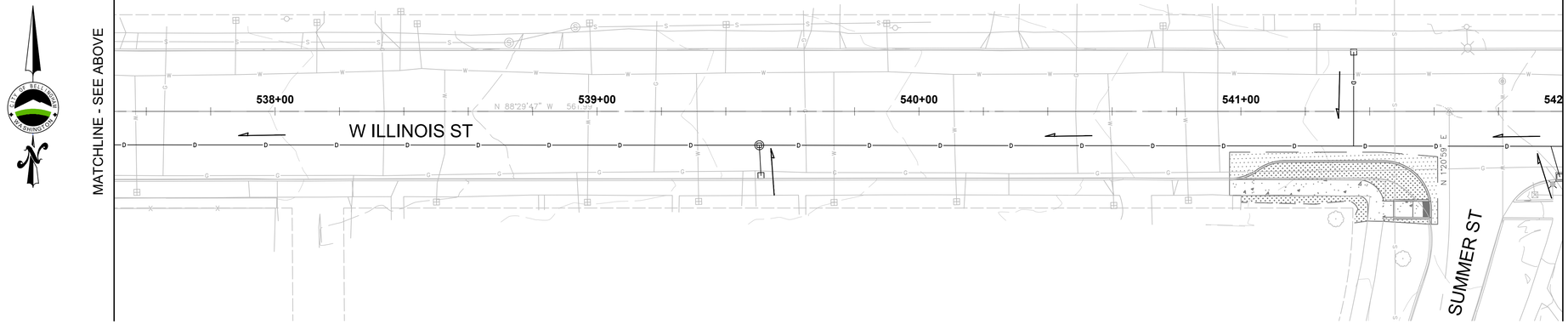

GENERAL NOTES

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2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND OR POTHOLING THE LOCATION, DEPTH, SIZE, MATERIAL AND CONFIGURATION OF EXISTING UTILITIES. VERIFICATION SHALL BE COMPLETED EARLY ENOUGH IN CONSTRUCTION SO AS TO ADJUST THE PROPOSED STORM SEWER LAYOUT TO ACCOMMODATE ACTUAL FIELD CONDITIONS

(XX) CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 6	12"	CPSSP	6 LF	1.00%	91.80' 91.74'	533+45.33, 18.21' R 533+47.85, 23.39' R
IL - 7	12"	CPSSP	7 LF	1.00%	100.61' 100.68'	536+23.01, 23.87' R 536+23.05, 16.96' R

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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (2 OF 10)

SHEET 60 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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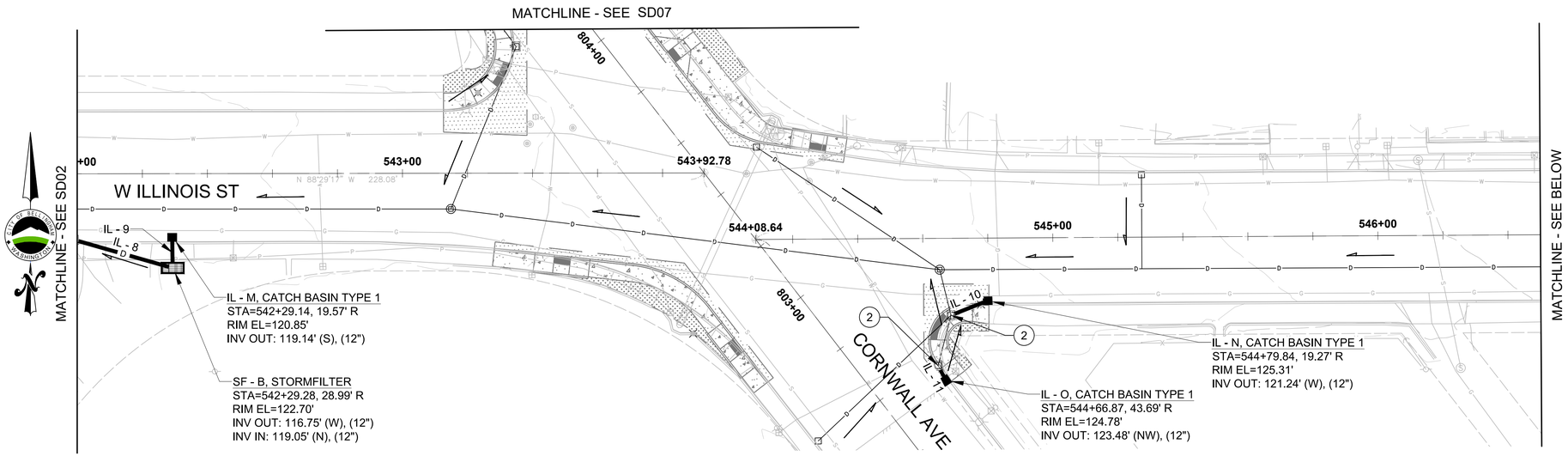
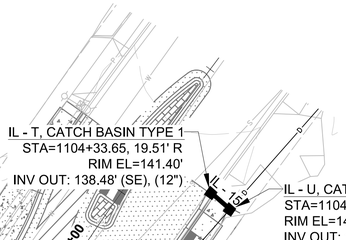


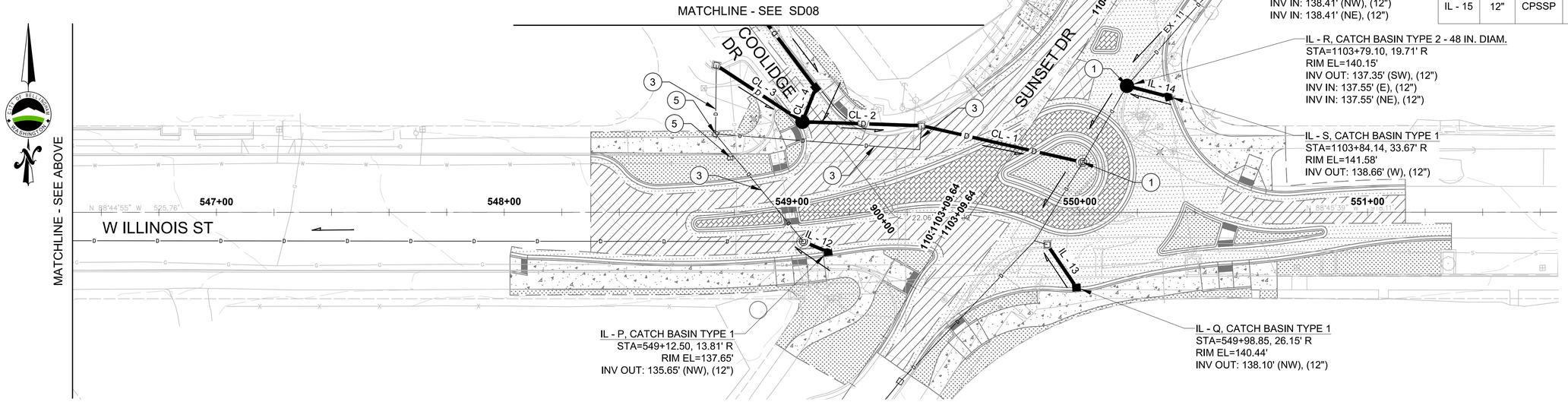
PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 8	12"	CPSSP	31 LF	1.00%	116.44' 116.75'	541+99.07, 20.33' R 542+29.28, 28.99' R
IL - 9	12"	CPSSP	9 LF	1.00%	119.05' 119.14'	542+29.28, 28.99' R 542+29.14, 19.57' R
IL - 10	12"	CPSSP	12 LF	1.00%	121.12' 121.24'	544+68.55, 23.65' R 544+79.84, 19.27' R

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 11	12"	CPSSP	5 LF	1.00%	123.48' 123.43'	544+66.87, 43.69' R 544+64.51, 39.10' R
IL - 12	12"	CPSSP	9 LF	10.00%	134.73' 135.65'	549+04.00, 10.18' R 549+12.50, 13.81' R
IL - 13	12"	CPSSP	18 LF	10.00%	136.30' 138.10'	549+88.71, 11.26' R 549+98.85, 26.15' R





PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IL - 14	12"	CPSSP	15 LF	7.50%	137.55' 138.66'	1103+79.10, 19.71' R 1103+84.14, 33.67' R
IL - 15	12"	CPSSP	7 LF	1.00%	138.48' 138.41'	1104+33.65, 19.51' R 1104+32.97, 26.05' R

GENERAL NOTES

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(XX) CONSTRUCTION NOTES

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2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

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2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (3 OF 10)

SHEET 61 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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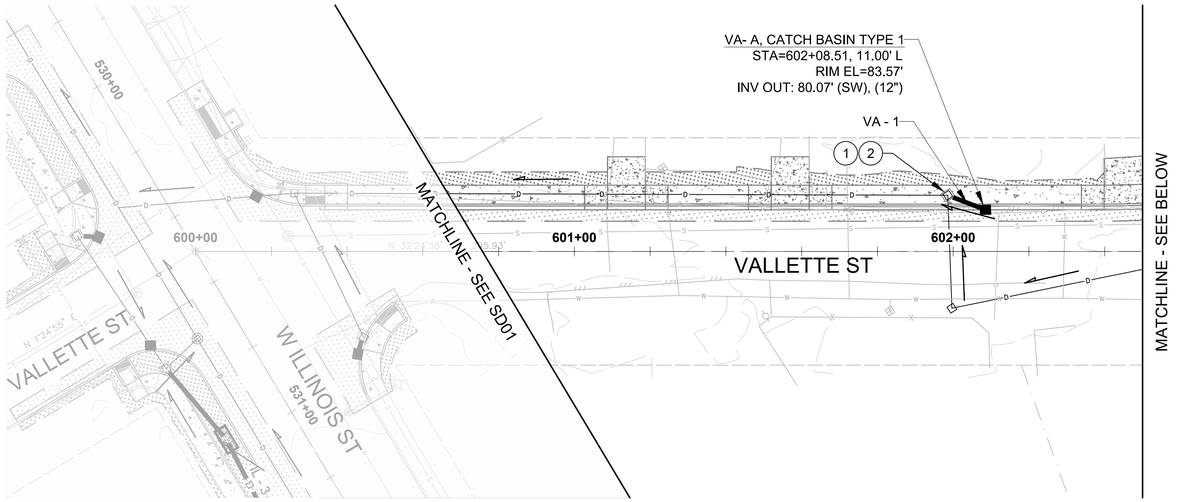

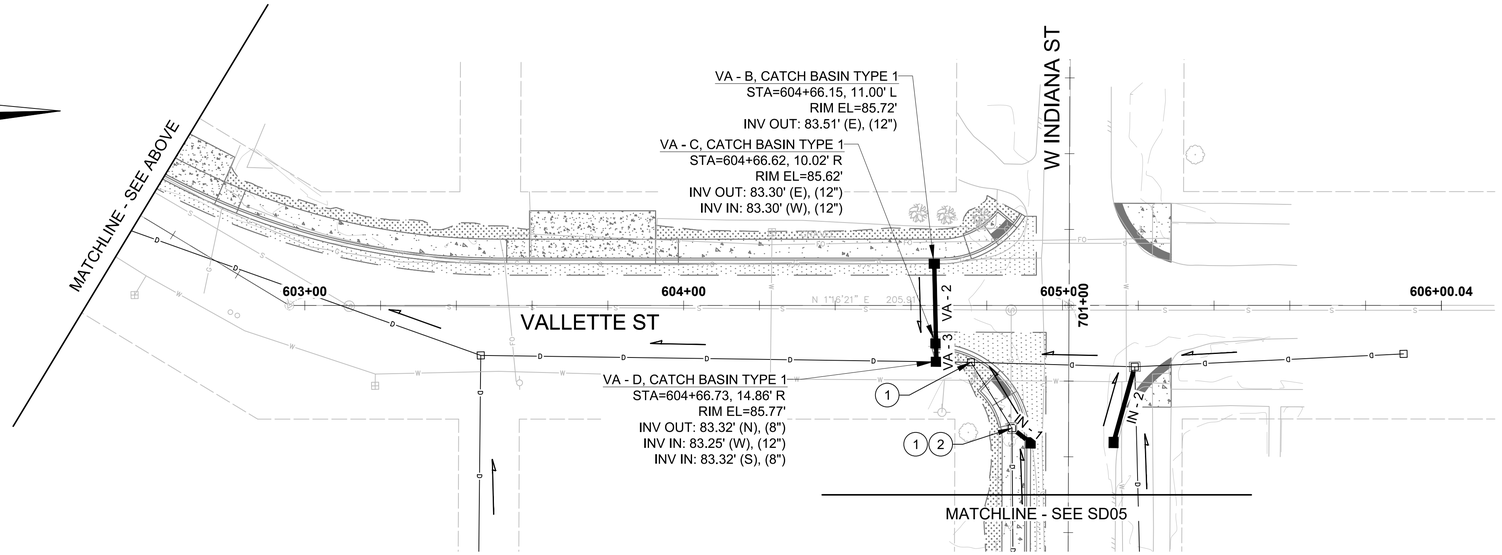

GENERAL NOTES

1. STATION & OFFSET FOR DRAINAGE STRUCTURES ARE TO CENTER OF STRUCTURES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND OR POTHOLING THE LOCATION, DEPTH, SIZE, MATERIAL AND CONFIGURATION OF EXISTING UTILITIES. VERIFICATION SHALL BE COMPLETED EARLY ENOUGH IN CONSTRUCTION SO AS TO ADJUST THE PROPOSED STORM SEWER LAYOUT TO ACCOMMODATE ACTUAL FIELD CONDITIONS

(XX) CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
VA - 1	12"	CPSSP	11 LF	0.98%	79.97' 80.07'	601+98.57, 14.83' L 602+08.51, 11.00' L
VA - 2	12"	CPSSP	21 LF	1.00%	83.51' 83.30'	604+66.15, 11.00' L 604+66.62, 10.02' R
VA - 3	12"	CPSSP	5 LF	1.00%	83.30' 83.25'	604+66.62, 10.02' R 604+66.73, 14.86' R

PRELIMINARY

90% SUBMITTAL

811 Call 811 two business days before you dig

0 10 20 40 60

SD04

TRANTECH Engineering LLC
1221 FRASER ST., SUITE E-3
BELLINGHAM, WASHINGTON
98229
(TEL) 425 255-2563

Date	No	Revision	By
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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (4 OF 10)

SHEET 62 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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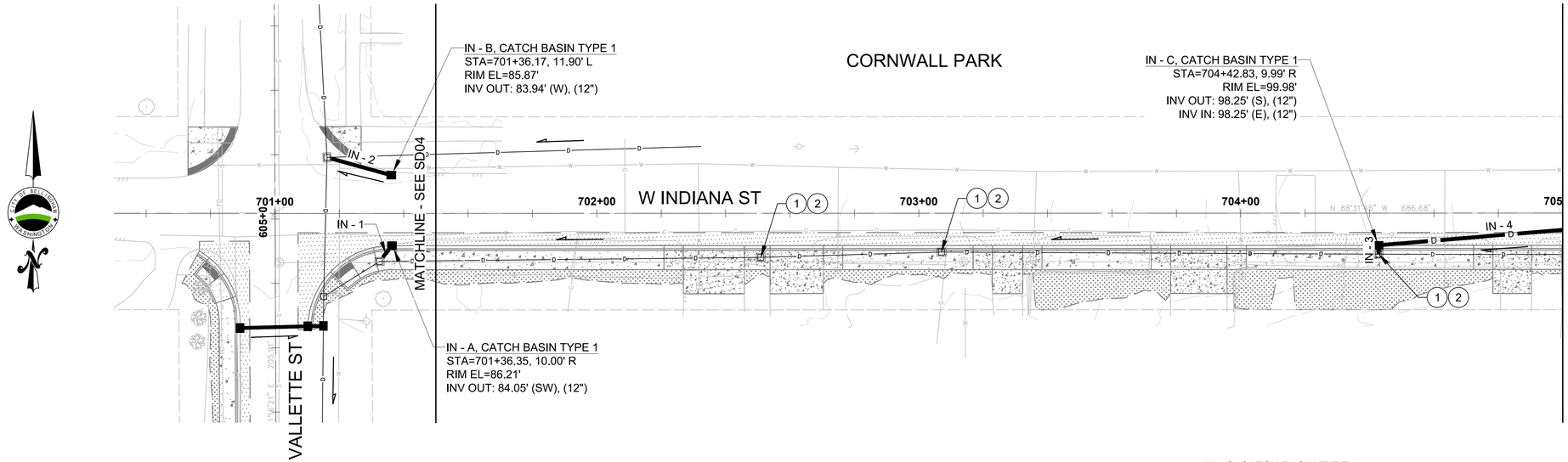

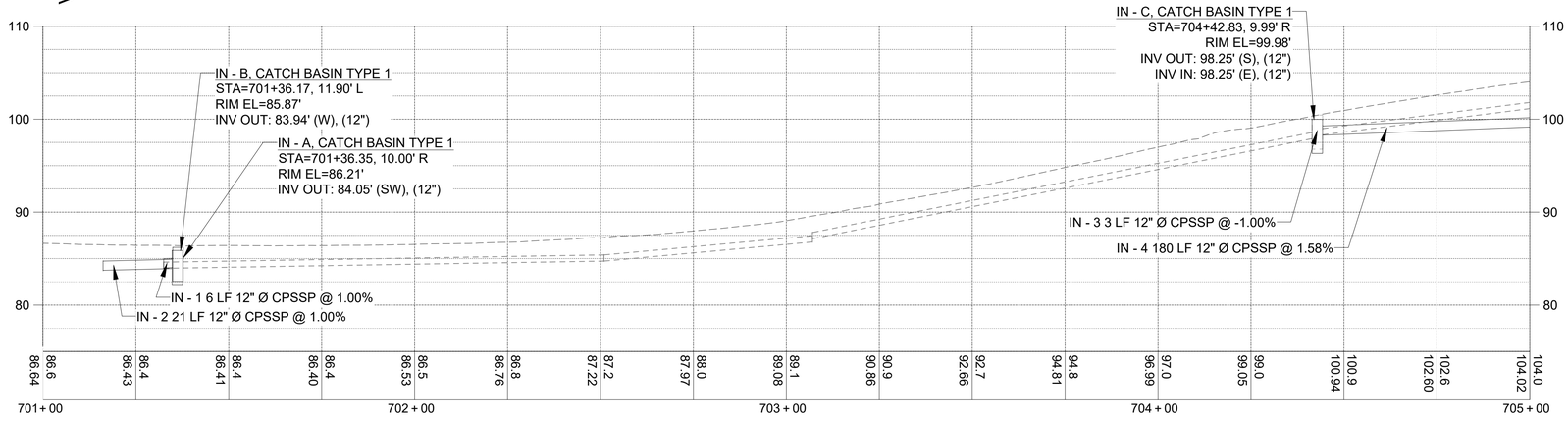

GENERAL NOTES

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(XX) CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
IN - 1	12"	CPSSP	6 LF	1.00%	83.99' 84.05'	701+32.49, 14.92' R 701+36.35, 10.00' R
IN - 2	12"	CPSSP	21 LF	1.00%	83.73' 83.94'	701+16.19, 17.42' L 701+36.17, 11.90' L
IN - 3	12"	CPSSP	3 LF	-1.00%	98.28' 98.25'	704+42.86, 12.76' R 704+42.83, 9.99' R

PRELIMINARY

90% SUBMITTAL

811 Call 811 two business days before you dig

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1221 FRASER ST., SUITE E-3
BELLINGHAM, WASHINGTON
98229
(TEL) 425 255-2563

SD05

Date	No	Revision	By
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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (5 OF 10)

SHEET 63 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
DETENTION TANK	96"	CMP	275 LF	0.00%	100.10' 100.10'	706+26.55, 5.00' L 708+95.96, 23.62' L
IN - 4	12"	CPSSP	180 LF	1.58%	98.25' 101.10'	704+42.83, 9.99' R 706+22.05, 5.00' L
IN - 5	12"	CPSSP	4 LF	-1.00%	107.34' 107.38'	706+18.43, 13.16' R 706+21.51, 10.00' R
IN - 6	12"	CPSSP	148 LF	0.65%	116.00' 116.96'	1200+31.68, 16.56' L 1201+88.94, 25.76' L
IN - 7	12"	CPSSP	14 LF	20.00%	104.13' 107.00'	708+99.94, 25.07' L 709+10.10, 15.55' L
IN - 8	12"	CPSSP	25 LF	20.00%	109.06' 114.00'	709+10.10, 15.55' L 709+33.21, 9.57' L
IN - 9	12"	CPSSP	12 LF	26.06%	120.00' 116.76'	709+23.63, 17.03' L 709+33.21, 9.57' L

GENERAL NOTES

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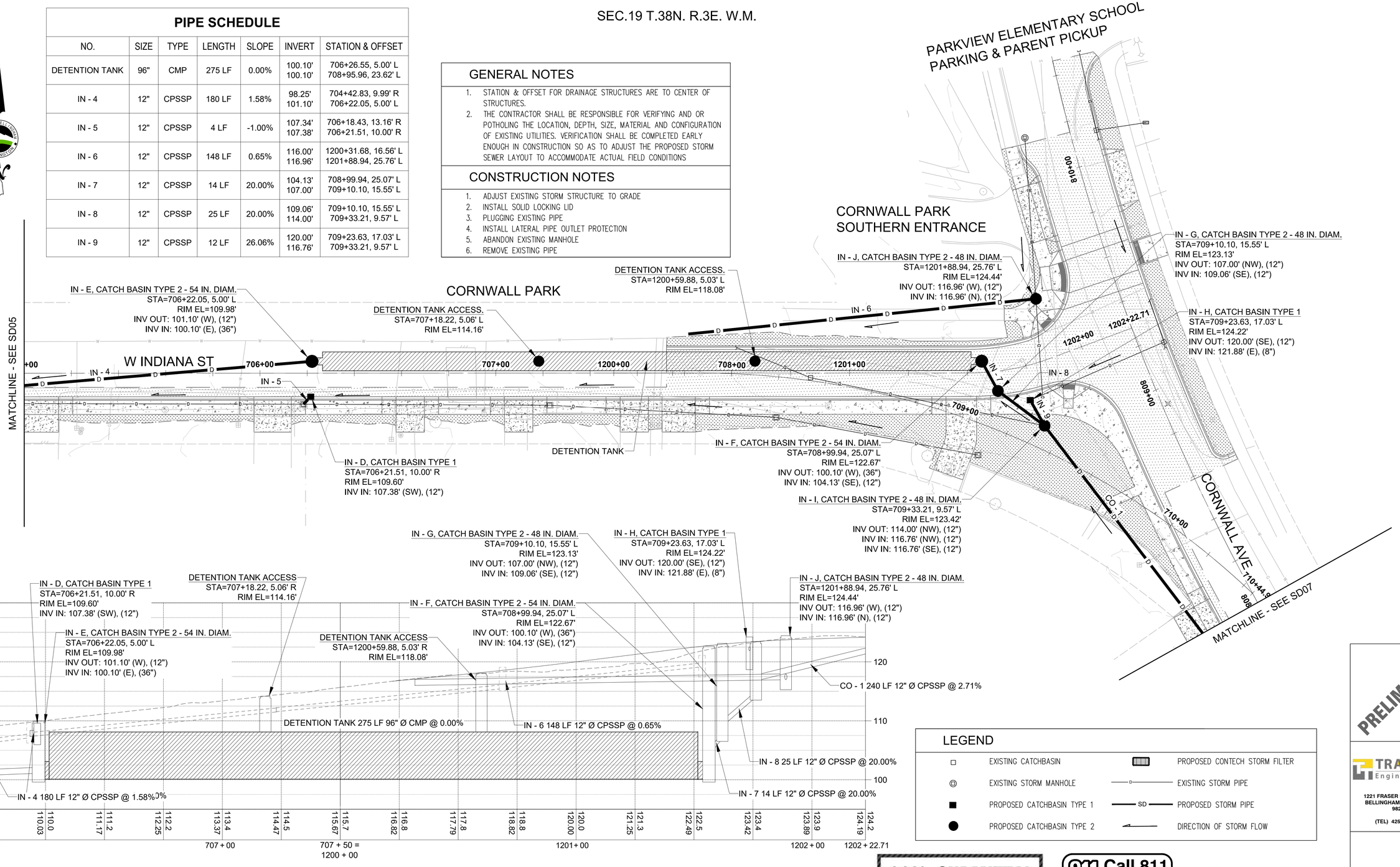
CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE



LEGEND

□	EXISTING CATCHBASIN	▭	PROPOSED CONTECH STORM FILTER
◎	EXISTING STORM MANHOLE	—▫—	EXISTING STORM PIPE
■	PROPOSED CATCHBASIN TYPE 1	—SD—	PROPOSED STORM PIPE
●	PROPOSED CATCHBASIN TYPE 2	◁—	DIRECTION OF STORM FLOW

PRELIMINARY

90% SUBMITTAL

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1221 FRASER ST., SUITE E-3
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SD06

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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (6 OF 10)

SHEET 64 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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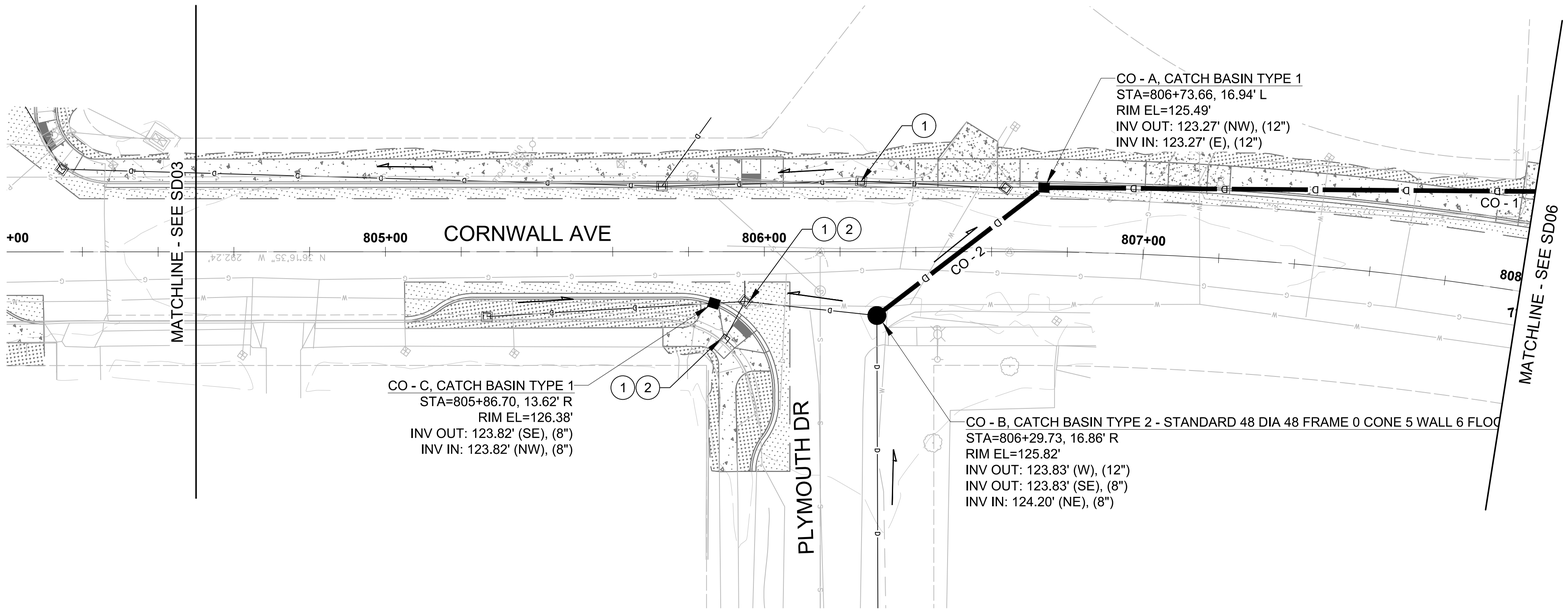

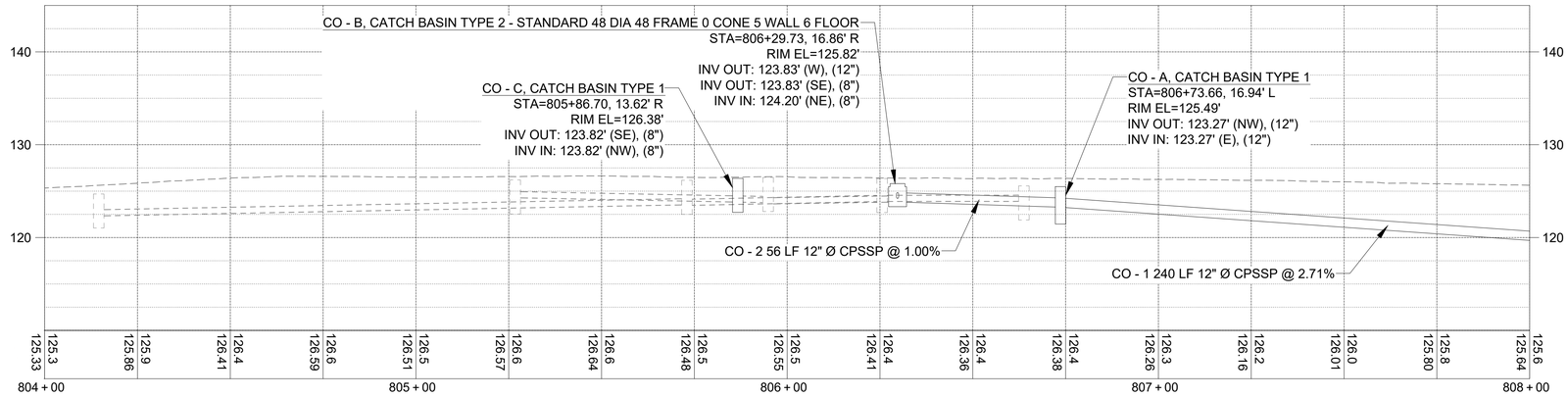

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
CO - 1	12"	CPSSP	240 LF	2.71%	116.76' 123.27'	809+03.64, 49.43' L 806+73.66, 16.94' L
CO - 2	12"	CPSSP	56 LF	1.00%	123.27' 123.83'	806+73.66, 16.94' L 806+29.73, 16.86' R

GENERAL NOTES

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(XX) CONSTRUCTION NOTES

1. ADJUST EXISTING STORM STRUCTURE TO GRADE
2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PRELIMINARY

TRANTECH Engineering LLC
1221 FRASER ST., SUITE E-3
BELLINGHAM, WASHINGTON
98229
(TEL) 425 255-2563

90% SUBMITTAL

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SD07

Date	No	Revision	By
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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (7 OF 10)

SHEET 65 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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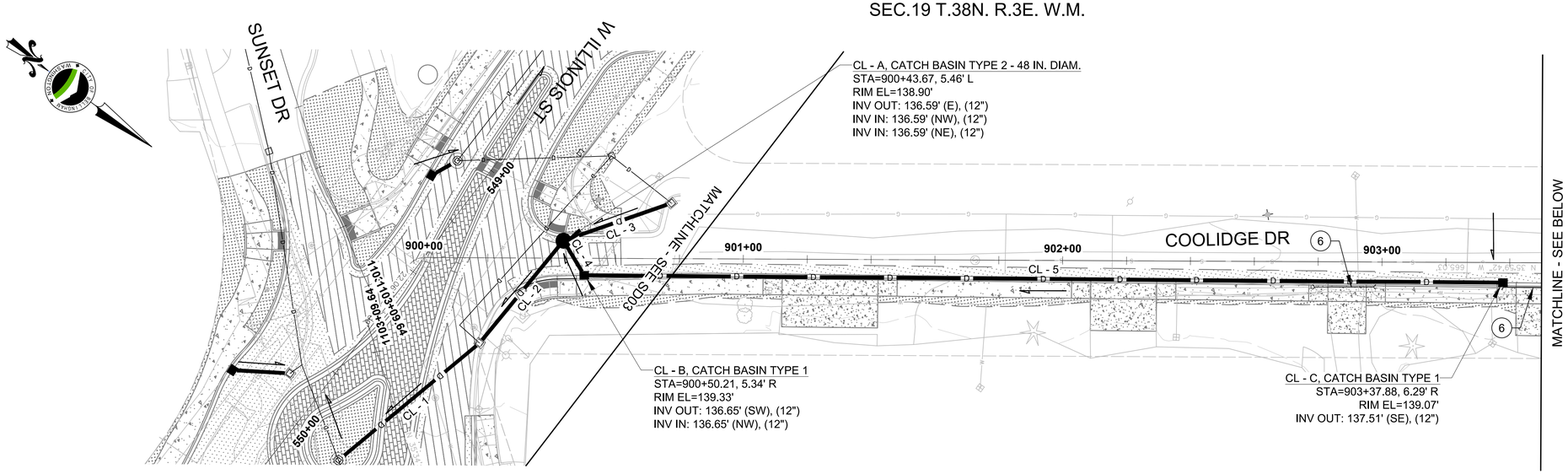

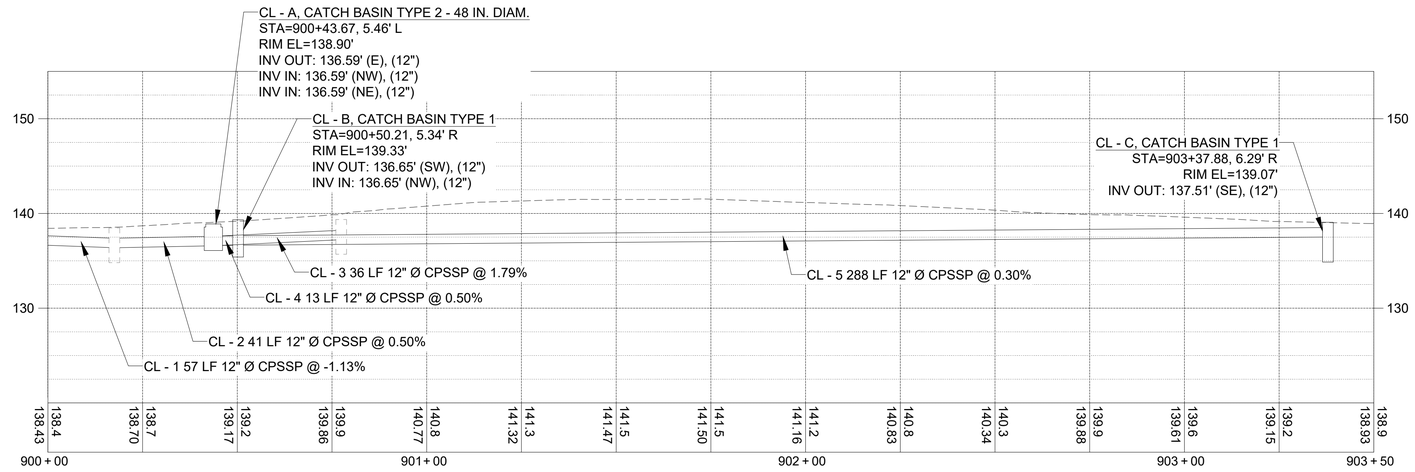

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
CL - 1	12"	CPSSP	57 LF	-1.13%	136.38' 137.03'	900+17.54, 26.69' R ???, ???' ???
CL - 2	12"	CPSSP	41 LF	0.50%	136.59' 136.38'	900+43.67, 5.46' L 900+17.54, 26.69' R
CL - 3	12"	CPSSP	36 LF	1.79%	137.23' 136.59'	900+77.42, 17.38' L 900+43.67, 5.46' L

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
CL - 4	12"	CPSSP	13 LF	0.50%	136.59' 136.65'	900+43.67, 5.46' L 900+50.21, 5.34' R
CL - 5	12"	CPSSP	288 LF	0.30%	136.65' 137.51'	900+50.21, 5.34' R 903+37.88, 6.29' R

GENERAL NOTES

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(XX) CONSTRUCTION NOTES

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2. INSTALL SOLID LOCKING LID
3. PLUGGING EXISTING PIPE
4. INSTALL LATERAL PIPE OUTLET PROTECTION
5. ABANDON EXISTING MANHOLE
6. REMOVE EXISTING PIPE

LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PRELIMINARY

TRANTECH Engineering LLC
1221 FRASER ST., SUITE E-3
BELLINGHAM, WASHINGTON
98229
(TEL) 425 255-2563

90% SUBMITTAL

811 Call 811 two business days before you dig

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SD08

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Date	No	Revision	By

PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (8 OF 10)

SHEET 66 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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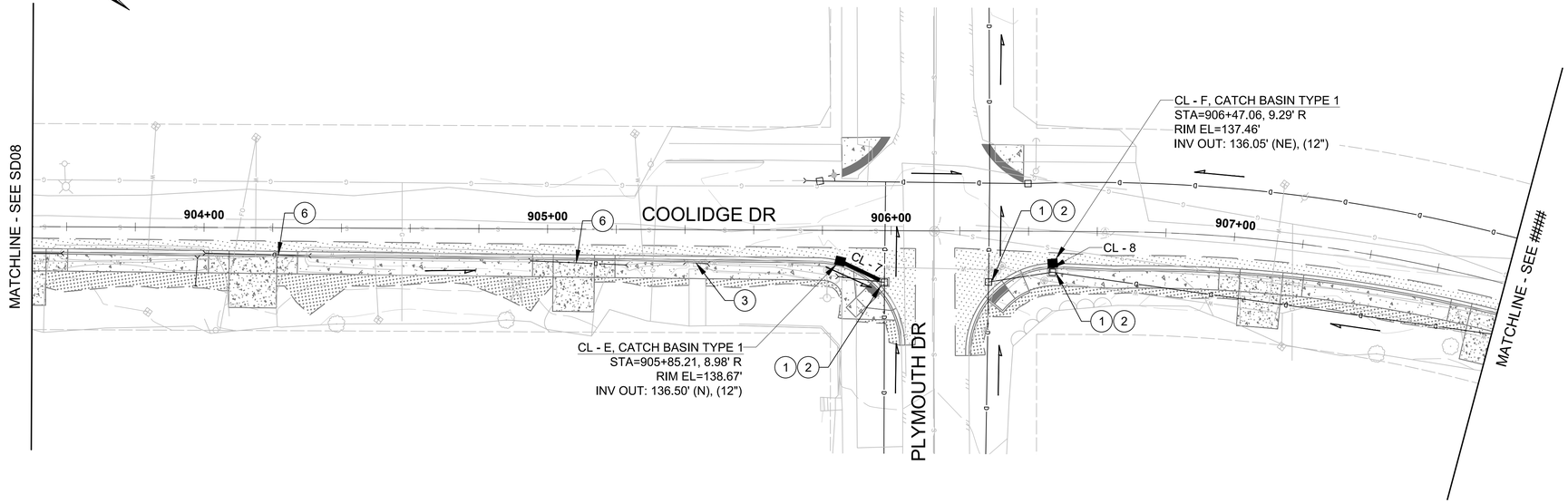

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LEGEND

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
CL - 7	12"	CPSSP	14 LF	1.00%	136.50' 136.36'	905+85.21, 8.98' R 905+98.11, 15.09' R
CL - 8	12"	CPSSP	3 LF	1.00%	136.05' 136.02'	906+47.06, 9.29' R 906+47.00, 11.91' R

PRELIMINARY

TRANTECH Engineering LLC
1221 FRASER ST., SUITE E-9
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98229
(TEL) 425 255-2563

90% SUBMITTAL

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SD09

Date	No	Revision	By
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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (9 OF 10)

SHEET 67 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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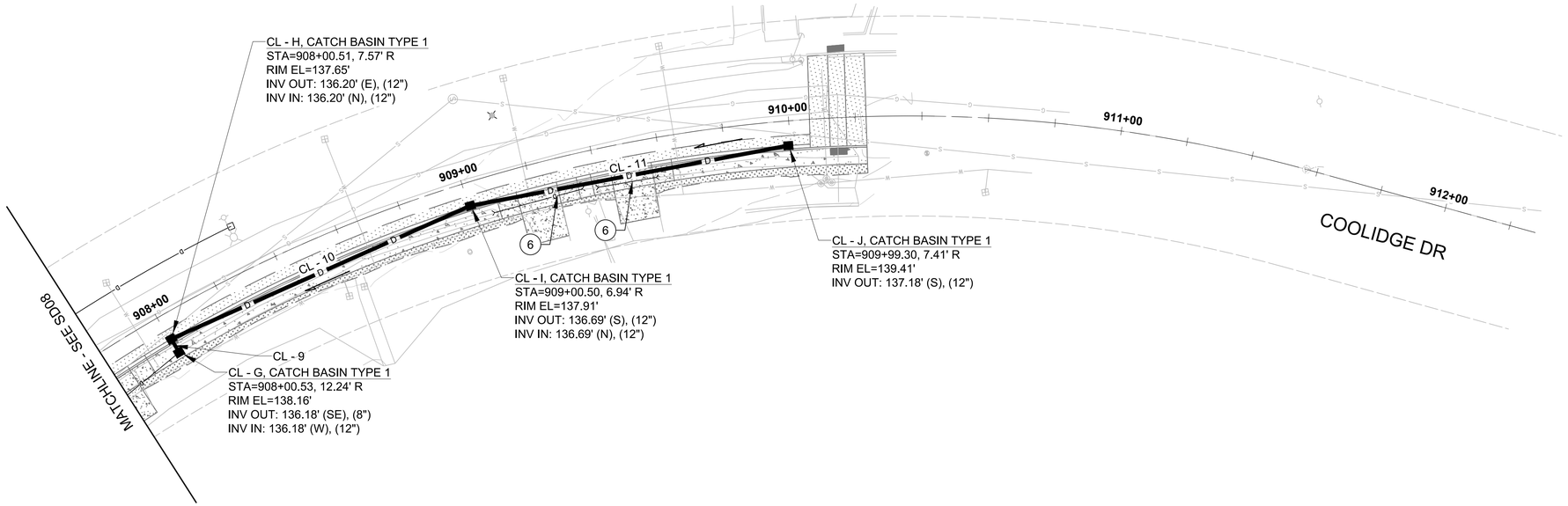

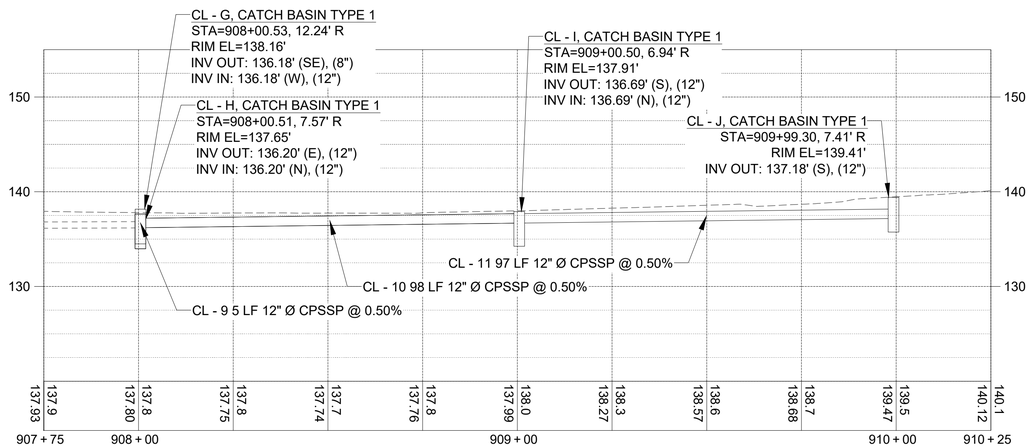

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6. REMOVE EXISTING PIPE

LEGEND

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- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN TYPE 1
- PROPOSED CATCHBASIN TYPE 2
- PROPOSED CONTECH STORM FILTER
- EXISTING STORM PIPE
- SD — PROPOSED STORM PIPE
- DIRECTION OF STORM FLOW

PIPE SCHEDULE

NO.	SIZE	TYPE	LENGTH	SLOPE	INVERT	STATION & OFFSET
CL - 9	12"	CPSSP	5 LF	0.50%	136.20' 136.18'	908+00.51, 7.57' R 908+00.53, 12.24' R
CL - 10	12"	CPSSP	98 LF	0.50%	136.20' 136.69'	908+00.51, 7.57' R 909+00.50, 6.94' R
CL - 11	12"	CPSSP	97 LF	0.50%	136.69' 137.18'	909+00.50, 6.94' R 909+99.30, 7.41' R

PRELIMINARY

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TRANTECH Engineering LLC
1221 FRASER ST., SUITE E-3
BELLINGHAM, WASHINGTON
98229
(TEL) 425 255-2563

SD10

Date	No	Revision	By
	4		
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PROJECT ENGINEER BAS
DESIGNED/DRAWN
INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
2926

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PROPOSED STORM DRAINAGE PLAN (10 OF 10)

SHEET 68 OF 102

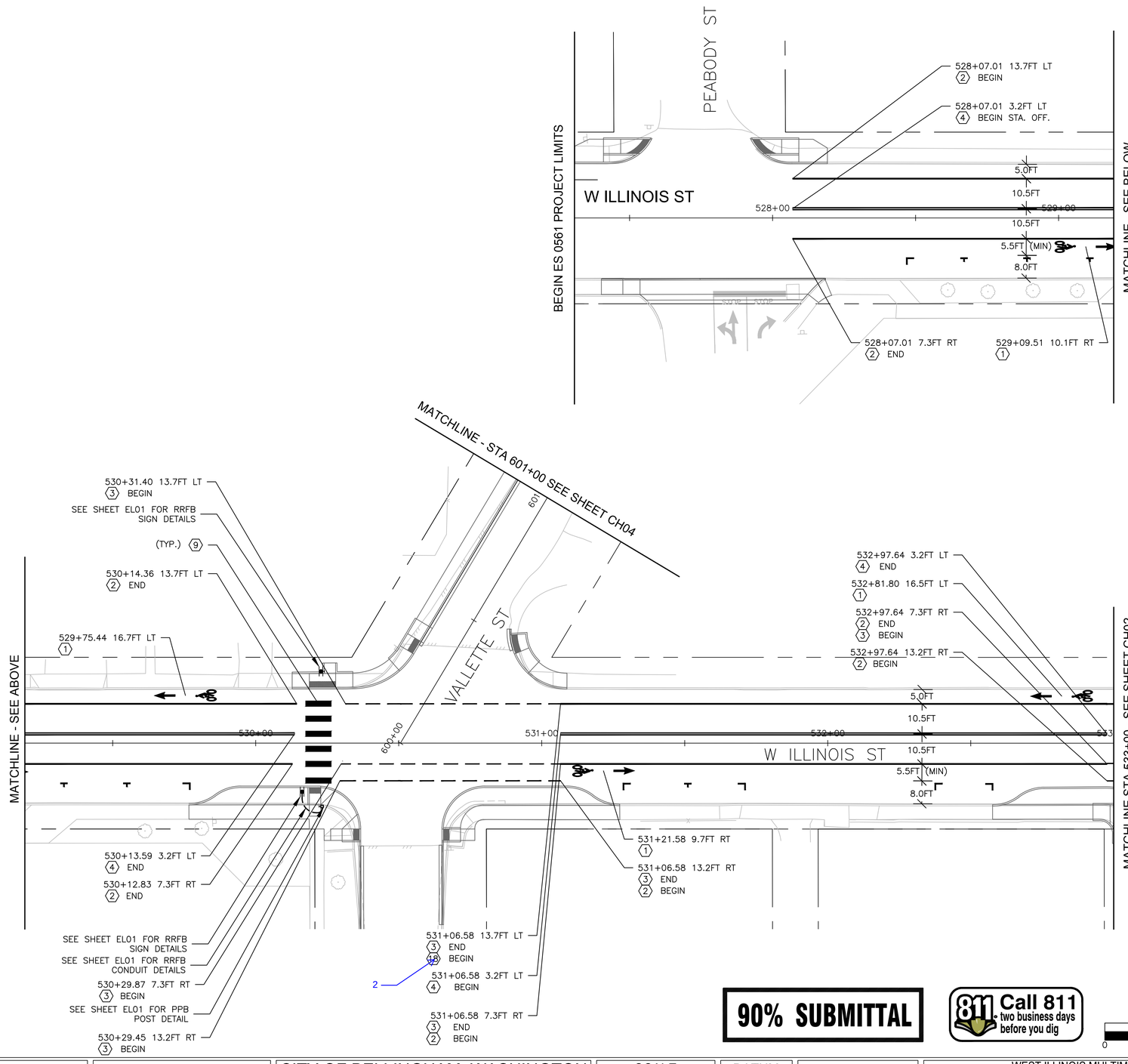
CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Z:\2022\2022018 - CITY OF BELLINGHAM PARKVIEW SRTS ES560\000 CAD 2020\010 DRAWING\B-CIVIL SHEET\2022018_SD.DWG

SEC.19 T.38N. R.3E. W.M.

CHANNELIZATION CONSTRUCTION NOTES

1. INSTALL WHITE THERMOPLASTIC BIKE LANE SYMBOL AND ARROW PER CITY OF BELLINGHAM STANDARD DRAWING TC-315.
2. INSTALL 6" WHITE PLASTIC SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10 AND CITY OF BELLINGHAM STANDARD DRAWING TC-315.
3. INSTALL 4" WHITE PLASTIC DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10.
4. INSTALL DOUBLE YELLOW CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.
5. INSTALL YELLOW SKIP CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.
6. INSTALL WHITE THERMOPLASTIC TYPE 2SL (LEFT) TRAFFIC ARROW PER WSDOT STANDARD PLANS M-24.40.
7. INSTALL WHITE THERMOPLASTIC BIKE LANE SYMBOL PER CITY OF BELLINGHAM STANDARD DRAWING TC-315.
8. INSTALL GREEN MMA BIKE BOX PER DETAILS ON SHEET CHD01.
9. INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.
10. INSTALL WHITE PAINTED STOP LINE PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.
11. INSTALL 4" WHITE PLASTIC SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10.
12. INSTALL 8" WHITE PLASTIC DIAGONAL CROSSHATCH MARKING AT 30' SPACING PER WSDOT STANDARD PLAN M-24.60.
13. INSTALL 4" YELLOW PLASTIC SOLID LINE PER WSDOT STANDARD PLAN M-20.10.
14. INSTALL 8" WHITE PLASTIC WIDE SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10-02.
15. INSTALL 12" WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10.
16. INSTALL WHITE THERMOPLASTIC YIELD LINE SYMBOL PER WSDOT STD. PLAN M-24.60.
17. INSTALL WHITE THERMOPLASTIC SHARED LANE MARKING PER CITY OF BELLINGHAM STANDARD DRAWING TC-316.
18. INSTALL SHARED LANE MARKING PER CITY OF BELLINGHAM STANDARD DRAWING TC-316.
19. INSTALL CHEVRON PER DETAIL SHEET DET06.



CHANNELIZATION GENERAL NOTES

1) ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF BELLINGHAM STANDARD PLANS AND SPECIFICATIONS, THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARDS AND SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE CONTRACT UNLESS OTHERWISE NOTED.
2) A COPY OF THE APPROVED PLANS SHALL BE ON SITE DURING CONSTRUCTION.
3) ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
4) ALL EXISTING SIGNING AND STRIPING THAT CONFLICT WITH THE PROPOSED SIGNING AND STRIPING, OR AS DIRECTED BY THE ENGINEER, SHALL BE REMOVED. EXISTING SIGNING AND STRIPING TO REMAIN THAT ARE DAMAGED OR OTHERWISE ALTERED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
5) STATIONING FOR ALL PAVEMENT MARKING SYMBOLS AND LETTERING IS MEASURED TO THE CENTER OF THE SYMBOL. ALL SYMBOLS AND LETTERING SHALL BE PERPENDICULAR TO THE ADJACENT LANE STRIPING AND CENTERED WITHIN THE LANE UNLESS OTHERWISE NOTED.
6) SEE RRFB, PAVING, AND CURB RAMP PLANS FOR FURTHER DETAILS.
7) SIGNAGE DESIGN AND IMPLEMENTATION TO BE COMPLETED BY THE CITY OF BELLINGHAM.

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CH01

Date	No	Revision	By
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INSPECTOR

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE: Horiz. AS NOTED; Vert. AS NOTED
DATUM: NAD 83/98 NAVD 88
Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN ILLINOIS

SHEET 69 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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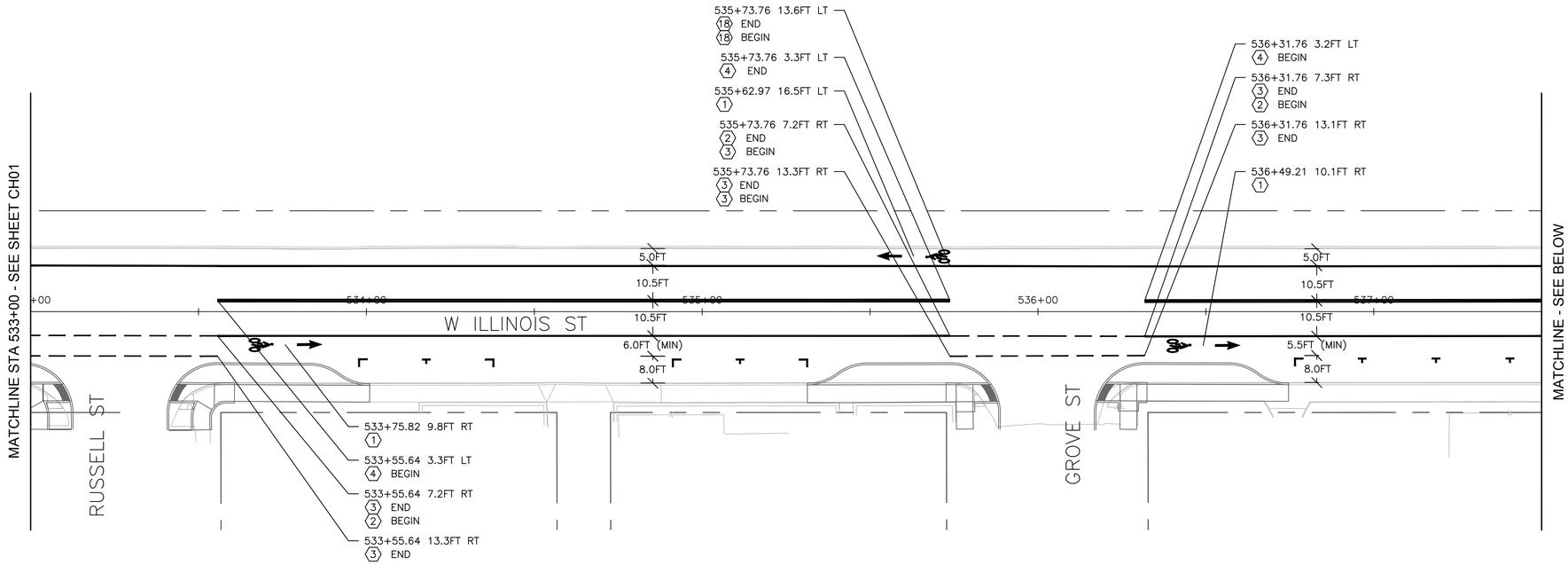
SEC.19 T.38N. R.3E. W.M.

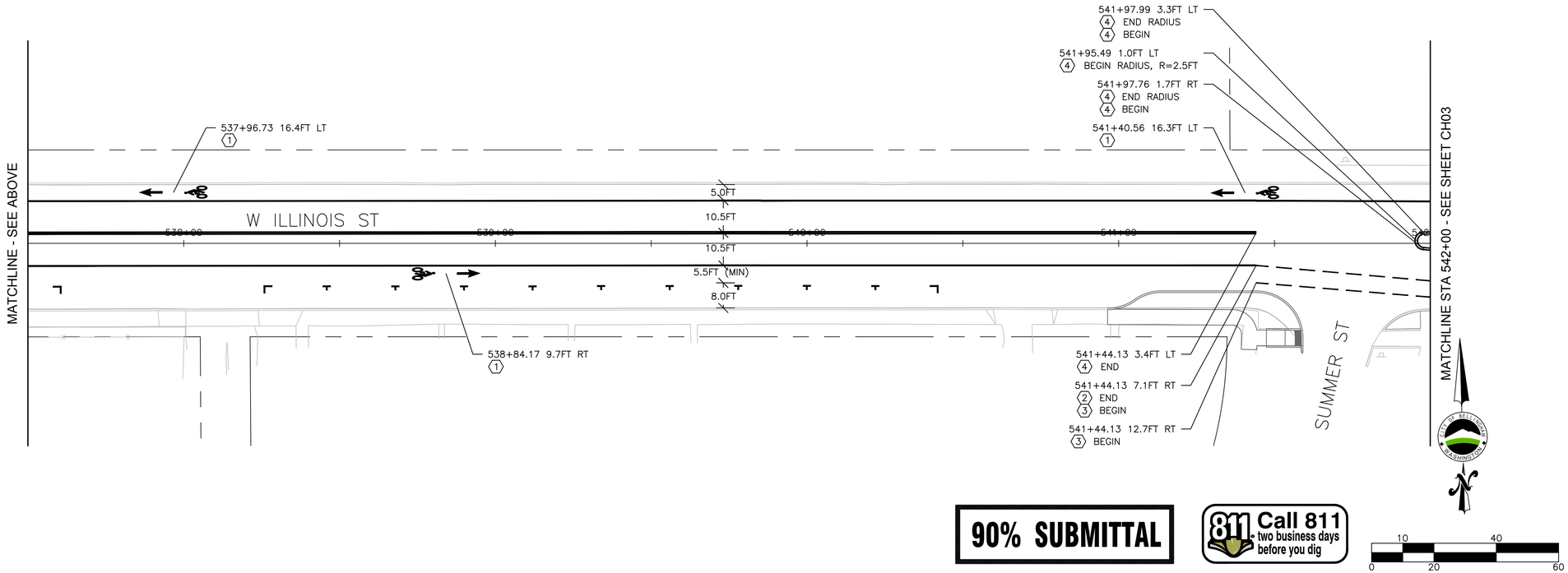
NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

1. INSTALL WHITE THERMOPLASTIC BIKE LANE SYMBOL AND ARROW PER CITY OF BELLINGHAM STANDARD DRAWING TC-315.
2. INSTALL 6" WHITE PLASTIC SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10 AND CITY OF BELLINGHAM STANDARD DRAWING TC-315.
3. INSTALL 4" WHITE PLASTIC DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10.
4. INSTALL DOUBLE YELLOW CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.





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CH02

Date	No	Revision	By
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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN ILLINOIS

SHEET 70 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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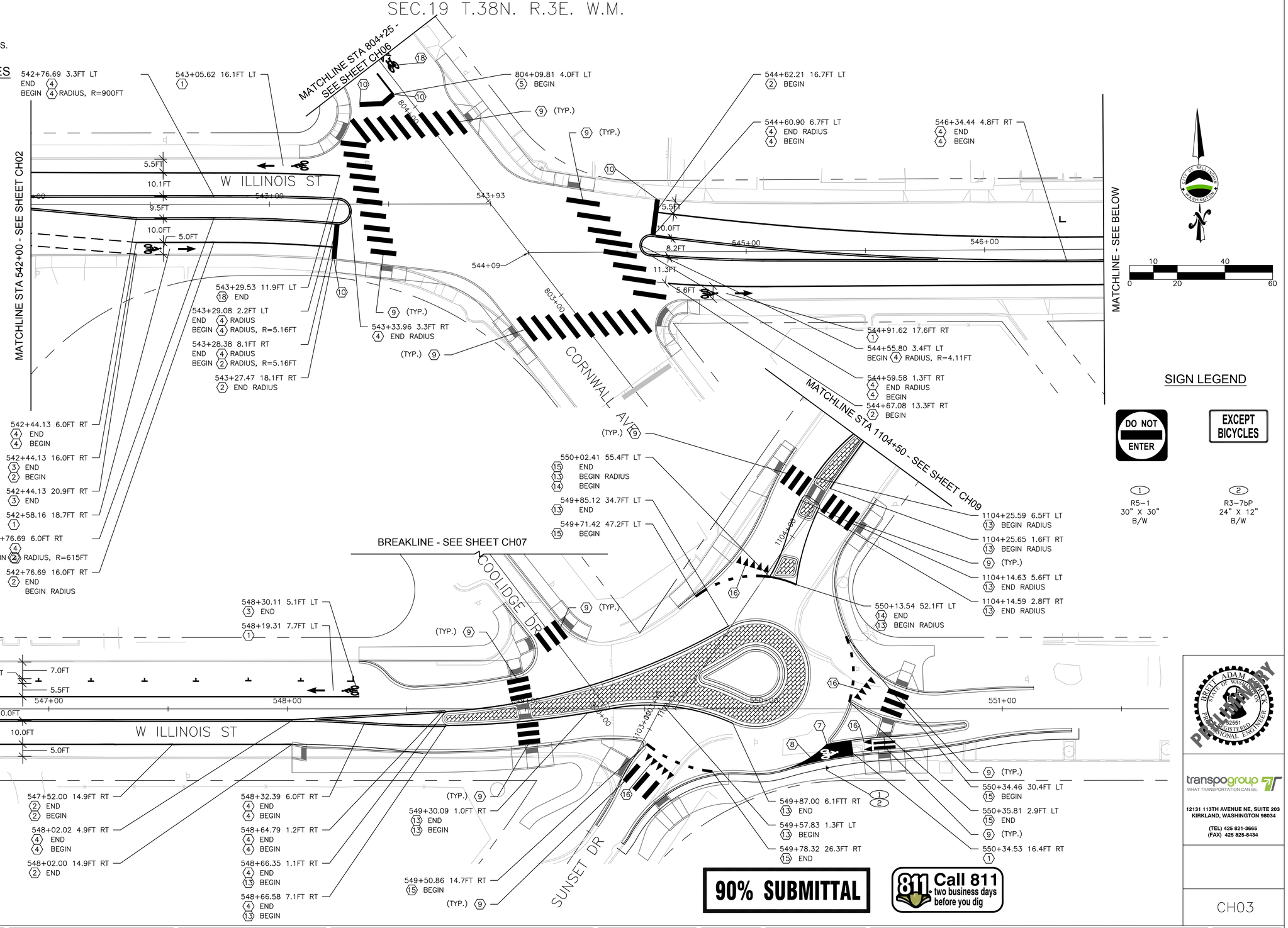
SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

1. INSTALL WHITE THERMOPLASTIC BIKE LANE SYMBOL AND ARROW PER CITY OF BELLINGHAM STANDARD DRAWING TC-315.
2. INSTALL 6" WHITE PLASTIC SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10 AND CITY OF BELLINGHAM STANDARD DRAWING TC-315.
3. INSTALL 4" WHITE PLASTIC DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10.
4. INSTALL DOUBLE YELLOW CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.
5. INSTALL YELLOW SKIP CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.
7. INSTALL WHITE THERMOPLASTIC BIKE LANE SYMBOL PER CITY OF BELLINGHAM STANDARD DRAWING TC-315.
8. INSTALL GREEN MMA BIKE BOX PER DETAILS ON SHEET CHD01.
9. INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.
10. INSTALL WHITE PAINTED STOP LINE PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.
13. INSTALL 4" YELLOW PLASTIC SOLID LINE PER WSDOT STANDARD PLAN M-20.10.
14. INSTALL 8" WHITE PLASTIC WIDE SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10-02.
15. INSTALL 12" WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-02.
16. INSTALL WHITE THERMOPLASTIC YIELD LINE SYMBOL PER WSDOT STD. PLAN M-24.60-04.



SIGN LEGEND

(1) R5-1 30" X 30" B/W

(2) R3-7bP 24" X 12" B/W

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CH03

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN ILLINOIS

SHEET 71 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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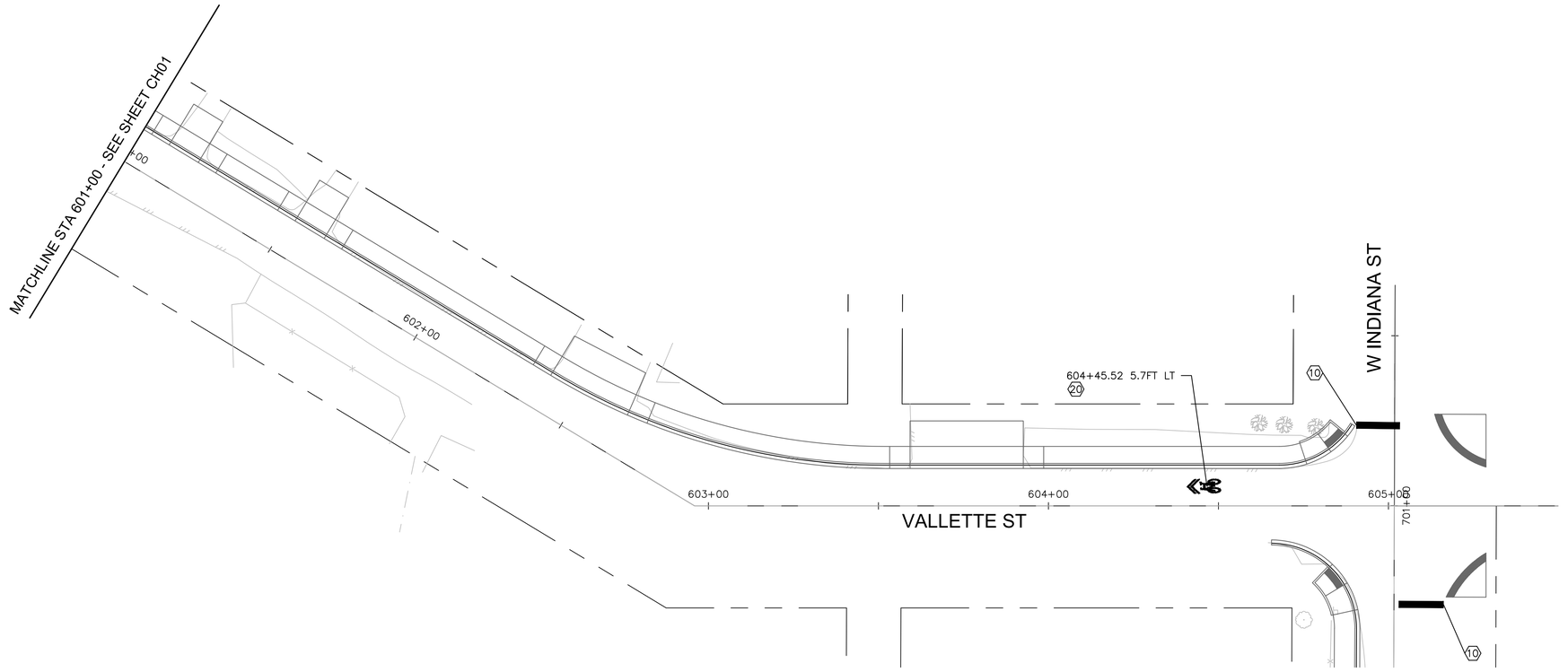
NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

(9) INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(20) REPLACE SHARED LANE MARKING PER CITY OF BELLINGHAM STANDARD DRAWING TC-316.



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CH04

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Date	No	Revision	By

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN INDIANA

SHEET 72 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

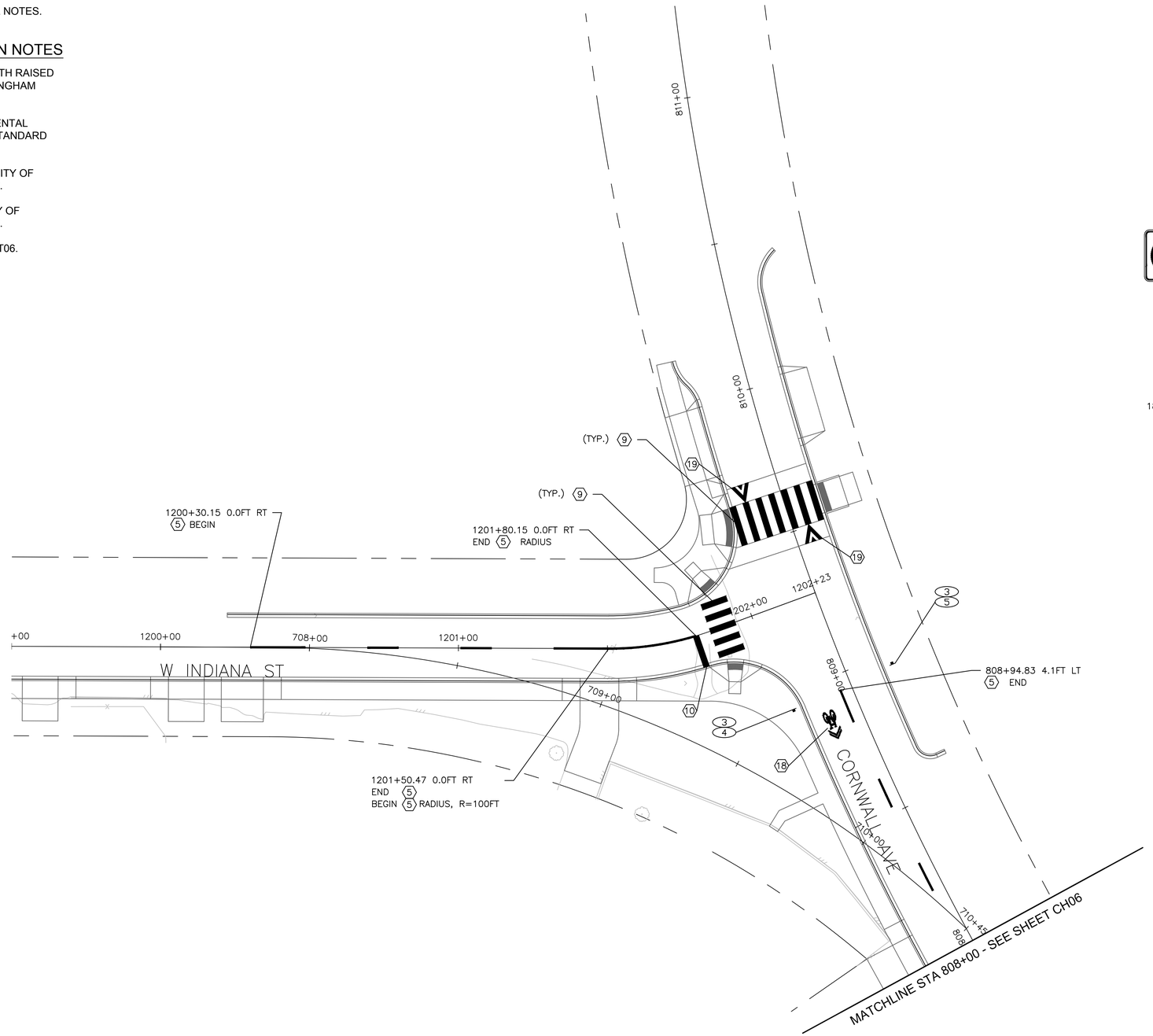
(5) INSTALL YELLOW SKIP CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.

(9) INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(10) INSTALL WHITE PAINTED STOP LINE PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(18) INSTALL SHARED LANE MARKING PER CITY OF BELLINGHAM STANDARD DRAWING TC-316.

(19) INSTALL CHEVRON PER DETAIL SHEET DET06.



SIGN LEGEND

(3) R9-3A 18" X 18" B/W

(4) R9-3BL 12" X 18" B/W

(5) R9-3BR 12" X 18" B/W

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CH05

Date	No	Revision	By
	4		
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN CORNWALL

SHEET 73 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES

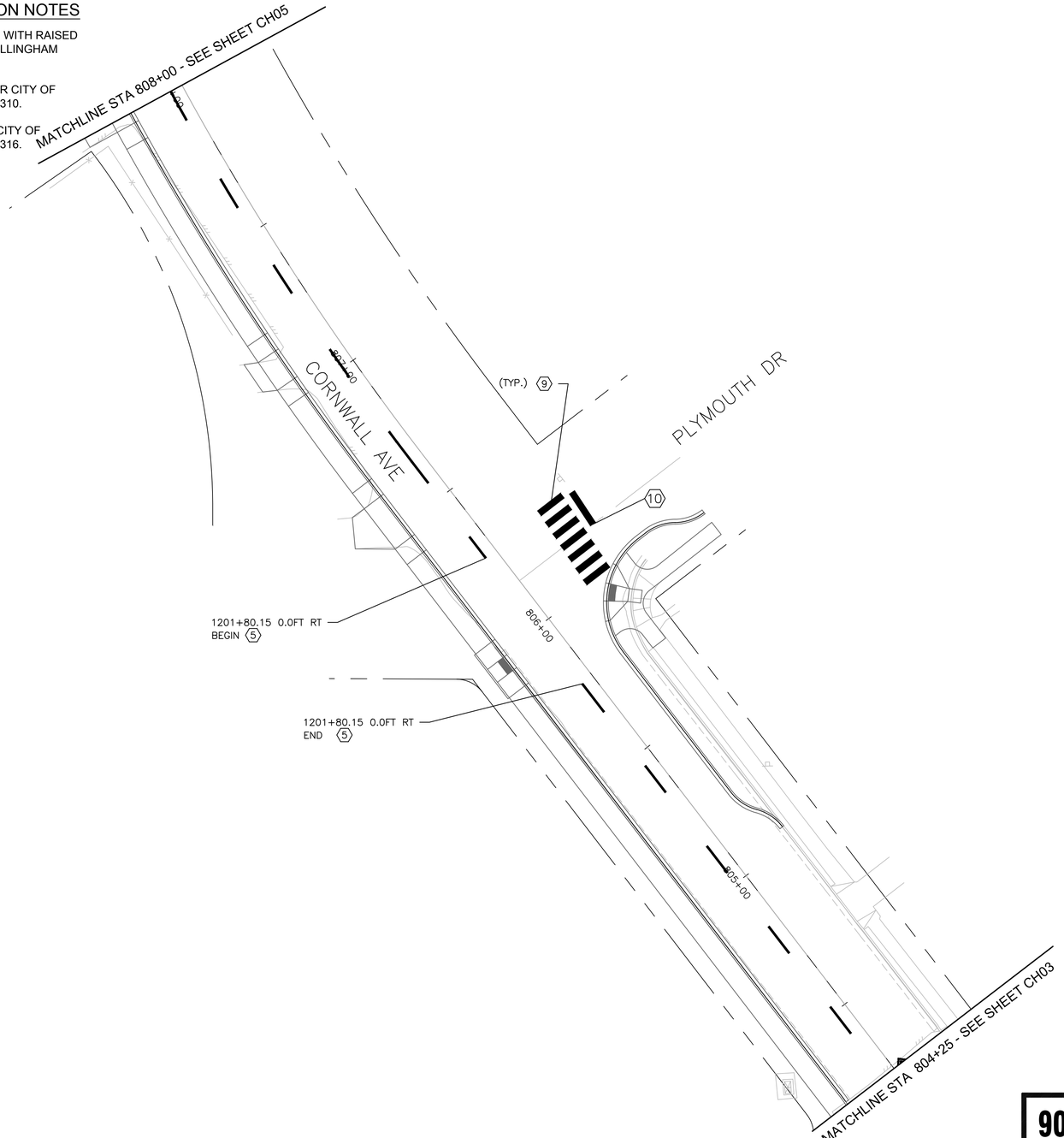
1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

(5) INSTALL YELLOW SKIP CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.

(10) INSTALL WHITE PAINTED STOP LINE PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(18) INSTALL SHARED LANE MARKING PER CITY OF BELLINGHAM STANDARD DRAWING TC-316.



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CH06

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DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN CORNWALL

SHEET 74 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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SEC.19 T.38N. R.3E. W.M.

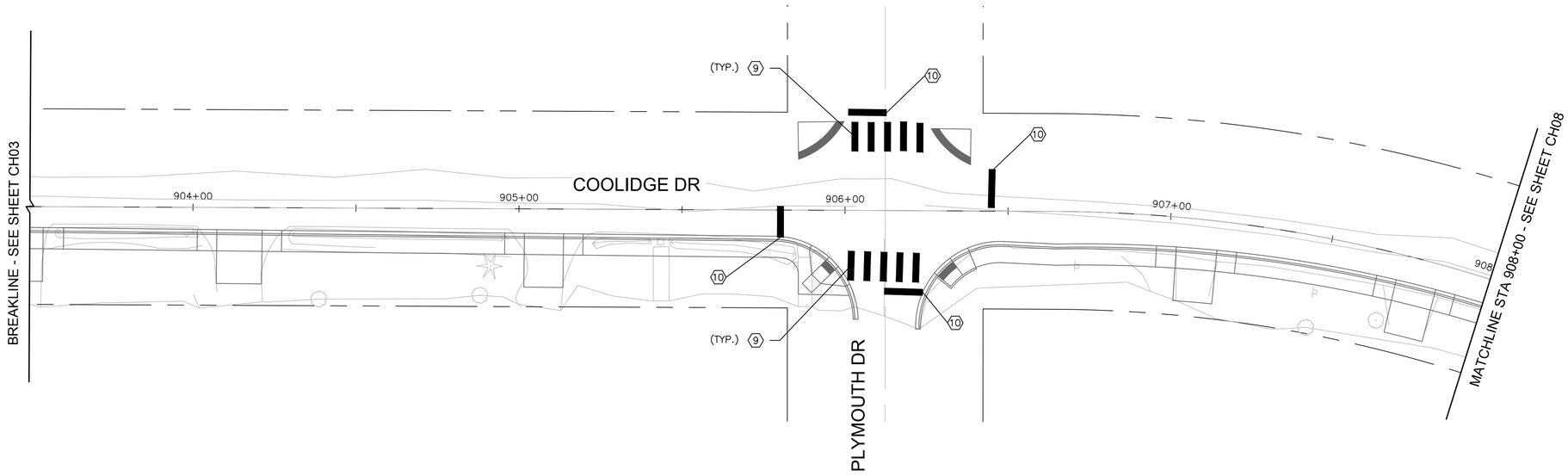
NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

(9) INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(10) INSTALL WHITE PAINTED STOP LINE PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.



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CH07

	No	Revision	By
	4		
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Date			

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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN COOLIDGE

SHEET 75 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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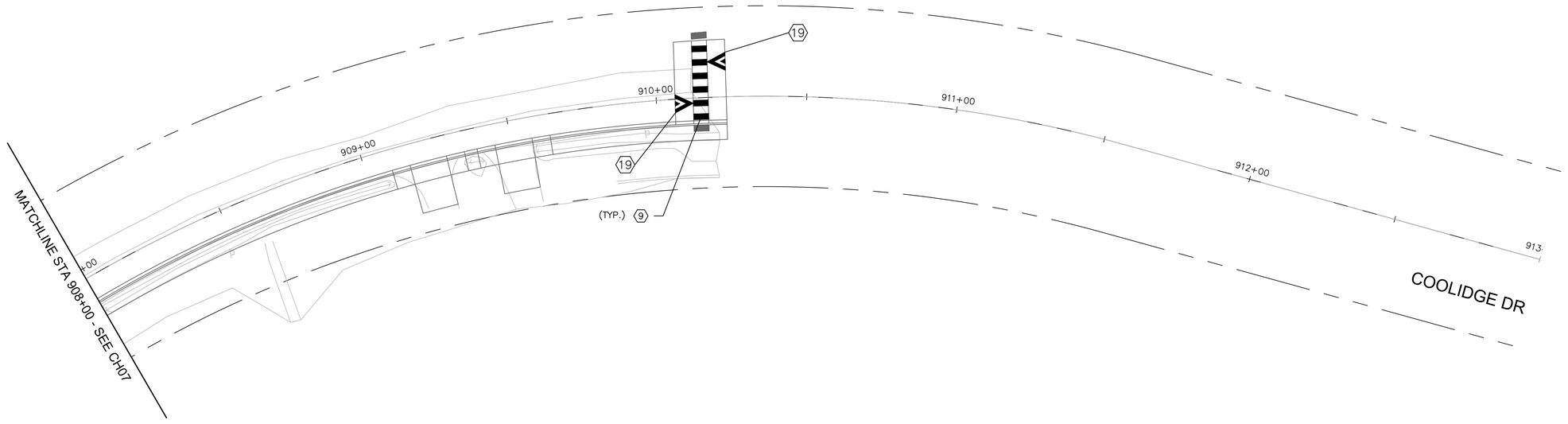
NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

(9) INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF BELLINGHAM STANDARD DRAWING TC-310.

(19) INSTALL CHEVRON PER DETAIL SHEET #####.



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STATE OF WASHINGTON
22551
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PRELIMINARY

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CH08

Date	No	Revision	By
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN COOLIDGE

SHEET 76 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-CHANNELIZATION-PLAN-PARKVIEW.DWG

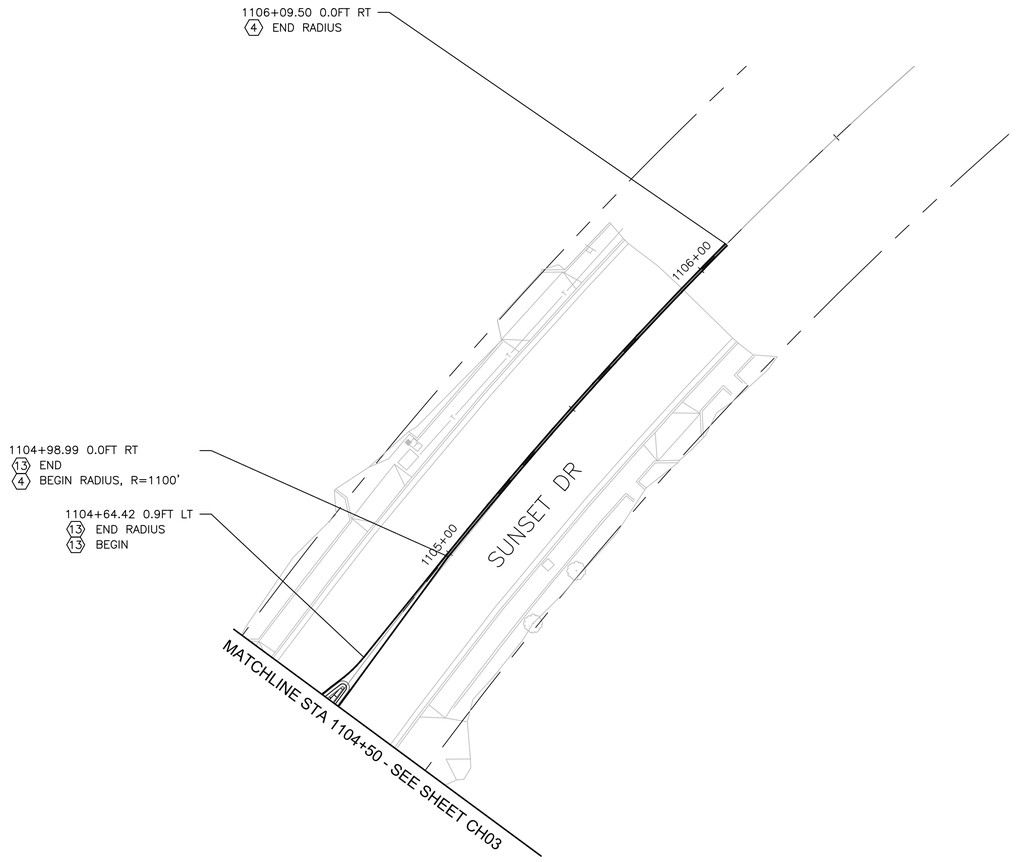
NOTES

1. SEE CH01 FOR CHANNELIZATION GENERAL NOTES.

CHANNELIZATION CONSTRUCTION NOTES

(4) INSTALL DOUBLE YELLOW CENTER STRIPE WITH RAISED PAVEMENT MARKINGS PER CITY OF BELLINGHAM STANDARD DRAWING TC-305.

(13) INSTALL 4" YELLOW PLASTIC SOLID LINE PER WSDOT STANDARD PLAN M-20.10.



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CH09

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CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
CHANNELIZATION PLAN SUNSET

SHEET 77 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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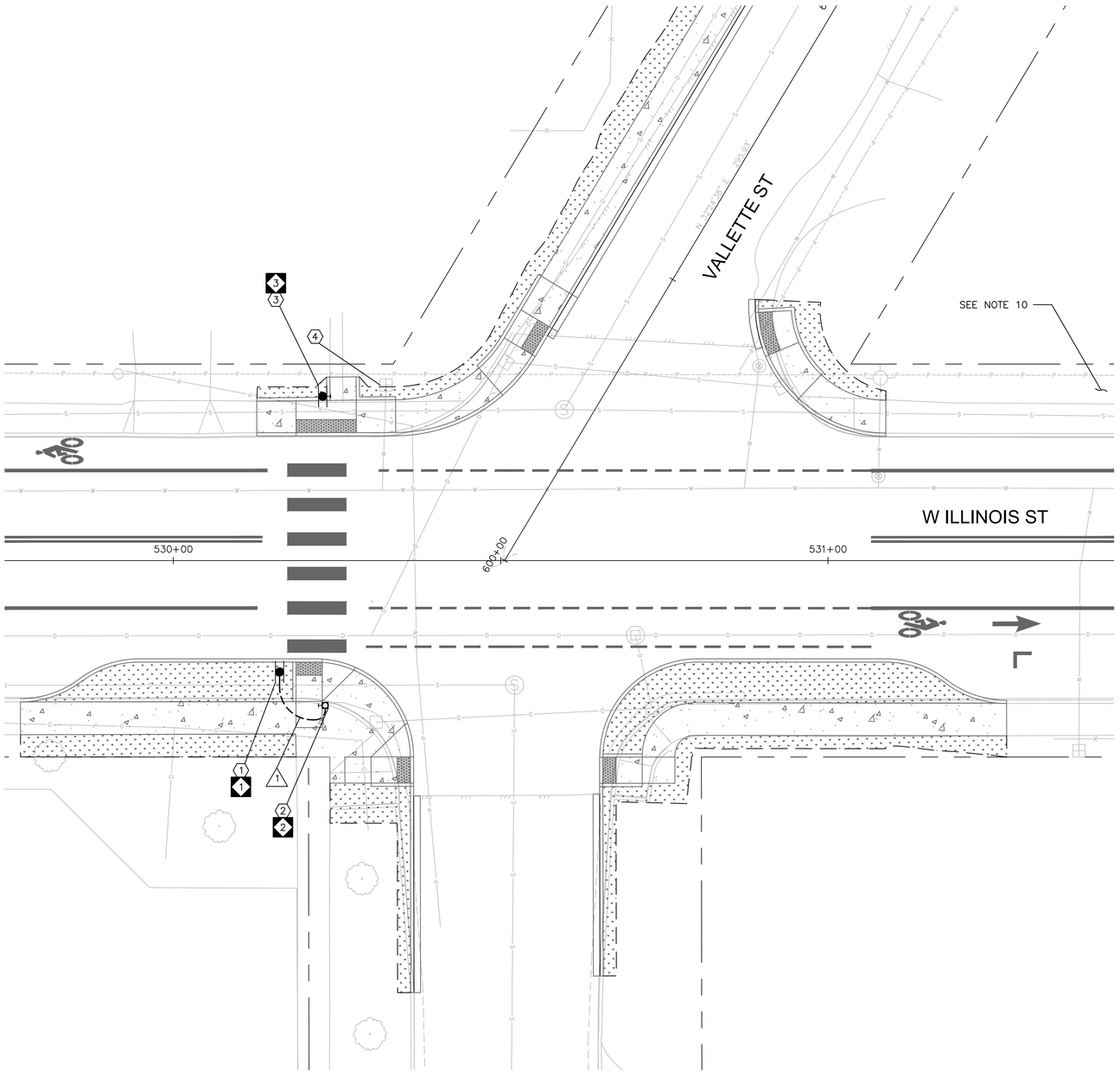

RRFB GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY AND STAKE FINAL LOCATIONS OF ALL PROPOSED RRFB SIGNS AND FOUNDATIONS WITH THE ENGINEER PRIOR TO INSTALLATION. ALL PROPOSED SIGNS AND FOUNDATIONS SHALL BE LOCATED WITHIN RIGHT-OF-WAY AND PANELS SHALL NOT OVERHANG OUTSIDE OF RIGHT-OF-WAY. SIGN PANELS THAT OVERHANG SIDEWALKS/PATHWAYS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 7 FT FROM THE BOTTOM OF THE LOWEST PANEL TO THE ADJACENT SIDEWALK/PATHWAY SURFACE.
2. SIGN CODES REFER TO THE MUTCD.
3. ROADSIDE W16-7P SIGN SHALL HAVE ARROW POINT DOWNWARD TOWARDS THE DIRECTION OF THE CROSSWALK EITHER TO RIGHT (W16-7PR) OR TO THE LEFT (W16-7PL).
4. SEE CHANNELIZATION, SIGNING, PAVING, AND CURB RAMP PLANS FOR FURTHER DETAILS.
5. THE LOCATION OF EXISTING FEATURES AND UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING ELECTRICAL WORK. NOT ALL EXISTING FEATURES AND UTILITIES MAY BE SHOWN.
6. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT UTILITY AGENCIES 48 HOURS PRIOR TO COMMENCING WORK AND SHALL COORDINATE WITH ALL AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY AGENCY IMMEDIATELY UPON DAMAGE AND SHALL BE RESPONSIBLE FOR REPLACING DAMAGED EQUIPMENT TO THE SATISFACTION OF THE AFFECTED UTILITY AGENCY.
7. POLE FOUNDATION LOCATIONS SHALL BE STAKED IN THE FIELD, POTHOLED TO VERIFY NO POTENTIAL UTILITY CONFLICTS EXIST, AND APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
8. THE CONTRACTOR SHALL CHECK FOR MINIMUM OVERHEAD CLEARANCE BETWEEN ANY OVERHEAD POWER AND COMMUNICATION LINES PRIOR TO PLACING FOUNDATIONS.
9. PEDESTRIAN PUSHBUTTON SHALL BE LOCATED WITHIN A 9-INCH REACH FROM CURB RAMP LANDING AREAS PER ADA ACCESSIBILITY GUIDELINES.
10. CONTRACTOR TO TRIM ANY TREE BRANCHES AND/OR VEGETATION TO PROVIDE VISIBILITY OF FLASHING RRFB UNIT(S) FROM THE TRAVELED WAY AND SKY VISIBILITY FOR SOLAR PANEL PER CITY OF BELLINGHAM DIRECTION.
11. SEE SHEET ELD01 FOR RECTANGULAR RAPID FLASHING BEACON (RRFB) DETAIL.

RRFB CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION AND INSTALL DOUBLE SIDED RECTANGULAR RAPID FLASHING BEACON (RRFB) POLE AND SIGN(S). INSTALL NEW SIGNS ON POLE ORIENTED PARALLEL TO CROSSWALK.
2. CONSTRUCT FOUNDATION AND INSTALL PEDESTRIAN PUSHBUTTON (PPB) POST WITH BREAKAWAY BASE. INSTALL ONE PEDESTRIAN PUSHBUTTON ON POST ORIENTED PARALLEL TO CROSSWALK.
3. CONSTRUCT CURB BASE FOUNDATION AND INSTALL DOUBLE SIDED RECTANGULAR RAPID FLASHING BEACON (RRFB) POLE, PUSHBUTTON, AND SIGN(S). INSTALL NEW PEDESTRIAN PUSHBUTTON AND SIGNS ON POLE ORIENTED PARALLEL TO CROSSWALK.
4. MAINTAIN AND PROTECT EXISTING CITY WATER METER.

LEGEND

- DOUBLE SIDED RRFB POLE
- PEDESTRIAN PUSHBUTTON POST
- PEDESTRIAN PUSHBUTTON
- CONDUIT
- CONSTRUCTION NOTE
- POLE NOTE
- WIRE NOTE

POLE SCHEDULE

POLE NO.	CENTERLINE STATIONING	STATION	POLE OFFSET	COMMENT
1	ILLINOIS ST			
2	ILLINOIS ST			
3	ILLINOIS ST			

TO BE COMPLETED

WIRING SCHEDULE

NO.	RACEWAY CONDUIT SIZE*	PPB 2C(SH)	CONDUIT FILL	COMMENTS
1	1" SCH80	1	6.47%	PPB POWER

*ALL CONDUIT SHALL BE PVC AND SHALL CONTAIN A GROUND WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR (MINIMUM NO. 8) UNLESS OTHERWISE NOTED.

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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
RRFB-PLAN-VALLETTE

SHEET 78 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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TRAFFIC SIGNAL GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF BELLINGHAM STANDARD PLANS AND SPECIFICATIONS, THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD PLANS, AND THE CONTRACT, UNLESS OTHERWISE NOTED.
2. A COPY OF THE APPROVED PLANS SHALL BE ON SITE DURING CONSTRUCTION.
3. ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
4. THE LOCATION OF EXISTING FEATURES AND UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING TRAFFIC SIGNAL WORK. NOT ALL EXISTING FEATURES AND UTILITIES MAY BE SHOWN.
5. THE CONTRACTOR SHALL SEQUENCE WORK TO MAINTAIN EXISTING TRAFFIC AND PEDESTRIAN SIGNAL EQUIPMENT IN-PLACE AND OPERATIONAL UNTIL FINAL SIGNAL EQUIPMENT IS OPERATIONAL, UNLESS OTHERWISE APPROVED IN WRITING BY CITY OF BELLINGHAM.
6. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT UTILITY AGENCIES 48 HOURS PRIOR TO COMMENCING WORK AND SHALL COORDINATE WITH ALL AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY AGENCY IMMEDIATELY UPON DAMAGE AND SHALL BE RESPONSIBLE FOR REPLACING DAMAGED EQUIPMENT TO THE SATISFACTION OF THE AFFECTED UTILITY AGENCY.
7. THE CONTRACTOR SHALL SALVAGE AND DELIVER ALL EXISTING SIGNAL EQUIPMENT SPECIFIED FOR REMOVAL BACK TO CITY OF BELLINGHAM, UNLESS OTHERWISE NOTED IN WRITING BY THE ENGINEER.
8. THE LOCATIONS OF PROPOSED CONDUITS AND JUNCTION BOXES SHOWN IN THESE PLANS ARE GRAPHICAL REPRESENTATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY FINAL LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL REPAIR ALL EXPOSED HOLES ON TRAFFIC SIGNAL POLES/ARMS RESULTING FROM THE REMOVAL, RELOCATION, OR REPLACEMENT OF EXISTING COMPONENTS, USING A METHOD AS APPROVED BY THE ENGINEER AND/OR THE CITY OF BELLINGHAM.
10. POLE FOUNDATION LOCATIONS SHALL BE STAKED IN THE FIELD, POTHOLED TO VERIFY NO POTENTIAL UTILITY CONFLICTS EXIST, AND APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
11. PEDESTRIAN PUSHBUTTON (PPB) POSTS AND FOUNDATIONS SHALL BE INSTALLED PER WSDOT STANDARD PLAN J-20.10. PPB POSTS WITH CURB BASES SHALL BE INSTALLED PER WSDOT STANDARD PLAN J-20.11. BREAKAWAY PPB POSTS AND FOUNDATIONS SHALL BE INSTALLED PER WSDOT STANDARD PLAN J-20.15.
12. PEDESTRIAN SIGNAL (PS) POLES AND FOUNDATIONS SHALL BE INSTALLED PER WSDOT STANDARD PLANS J-20.16, J-20.20, AND J-21.10. PS POLES WITH CURB BASES SHALL BE INSTALLED PER WSDOT STANDARD PLANS J-20.11, J-20.16, AND J-20.20.
13. PEDESTRIAN PUSHBUTTONS SHALL BE APS (ACCESSIBLE PEDESTRIAN SIGNALS) STYLE PER WSDOT STANDARD PLAN J-20.26 AND SHALL INCLUDE PEDESTRIAN PUSHBUTTON INSTRUCTIONAL SIGN. THE CONTRACTOR SHALL CONFIRM THE ORIENTATION OF THE PEDESTRIAN PUSHBUTTONS WITH THE ENGINEER PRIOR TO ORDERING EQUIPMENT. THE FACE OF PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED PARALLEL WITH THE ASSOCIATED CROSSWALK, UNLESS OTHERWISE NOTED. PEDESTRIAN PUSHBUTTON SHALL HAVE SPEECH MESSAGES INDICATING THE ROADWAY CROSSING NAMES AS NOTED ON THE TABLE ON SHEET TS02. APS PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED WITHIN A 9-INCH REACH FROM CURB RAMP LANDING AREAS, PER AMERICANS WITH DISABILITY ACT (ADA) GUIDELINES.
14. PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE LED WITH Z-CRATE VISORS AND MOUNTED PER WSDOT STANDARD PLAN J-75.10.
15. THE CONTRACTOR SHALL LABEL ALL CONDUCTORS FOR PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS WITHIN EACH JUNCTION BOX.
16. THE CONTRACTOR SHALL REMOVE ALL EXISTING CONDUCTORS ASSOCIATED WITH EXISTING SIGNAL EQUIPMENT SPECIFIED FOR REMOVAL, UNLESS OTHERWISE NOTED. CAP AND ABANDON EXISTING UNUSED CONDUIT. REMOVE PORTIONS OF ABANDONED CONDUIT WHERE IN CONFLICT WITH NEW CONDUIT, UNLESS OTHERWISE NOTED.
17. PROPOSED AND MODIFIED JUNCTION BOXES SHALL BE BONDED AND GROUNDED PER NEC REQUIREMENTS.
18. COORDINATE INSTALLATION OF THE RADAR DETECTION SYSTEM WITH THE CITY OF BELLINGHAM AND/OR ENGINEER.
19. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSHBUTTONS SHALL BE SECURELY COVERED WHEN NOT IN OPERATION.
20. ALL LIDS AND FRAMES FOR JUNCTION BOXES WITHIN SIDEWALK SECTIONS SHALL HAVE SLIP-RESISTANCE LIDS.
21. NEW VEHICLE SIGNAL HEADS INSTALLED SHALL BE TYPE N OR TYPE M MOUNTED ON MAST ARMS WITH PLUMBIZER LOCATED BETWEEN RED AND YELLOW INDICATIONS PER WSDOT STNADARD PLAN J-75.20, UNLESS OTHERWISE NOTED.
22. NEW PEDESTRIAN SIGNAL HEADS INSTALLED ON SIGNAL BRIDGE SHALL BE TYPE E MOUNT PER WSDOT STANDARD PLAN J-75.10.
23. NEW PEDESTRIAN SIGNAL HEADS INSTALLED ON TYPE PS SIGNAL POLE SHALL BE TYPE C OR TYPE D MOUNT PER WSODT STANDARD PLAN J-75.10.
24. ANY EXISTING UTILITIES THAT ARE IN SERVICE SHALL BE OPERATIONAL AT ALL TIMES.
25. THE CONTRACTOR SHALL SUBMIT ALL MATERIAL CUT SHEETS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION.
26. THE CONTRACTOR SHALL VERIFY FOUNDATION LOCATIONS ARE FREE OF UTILITY CONFLICT.

TRAFFIC SIGNAL LEGEND

DESCRIPTION	EXISTING	PROPOSED
RIGHT-OF-WAY		
CONDUIT		
CONSTRUCTION NOTE		(#)
SIGNAL POLE CONSTRUCTION NOTE		(#)
WIRE NOTE		#△
SIGNAL POLE AND MAST ARM		
PEDESTRIAN SIGNAL STANDARD (PS)		○
ACCESSIBLE PEDESTRIAN PUSHBUTTON POST (PPB)		▫
APS PUSHBUTTON ASSEMBLY		◂
PEDESTRIAN SIGNAL HEAD		
TYPE 1 JUNCTION BOX		
TYPE 2 JUNCTION BOX		
TYPE 8 JUNCTION BOX		
SIGNAL CONTROLLER CABINET		
SIGNAL HEAD		
RADAR DETECTION ZONE		
STOP LINE RADAR DETECTOR		
EMERGENCY VEHICLE PREEMPTION DETECTOR (EVP)		
SIGNAL MOUNTED SIGN		
CONDUIT		

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Date 10/02/2023
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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC SIGNAL NOTES

SHEET 79 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES TO REVIEWER

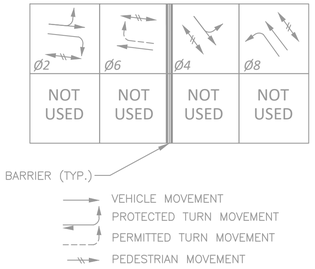
1. EXISTING SIGNAL WIRING TO BE VERIFIED BY A FIELD VISIT BETWEEN 60% TO 90% SUBMITTAL.
2. EXISTING TRAFFIC SIGNAL PHASING APPEARS TO SHOW SPLIT PHASING FOR ALL APPROACHES. THE PROPOSED DESIGN DEPICTS SPLIT PHASING TO REMAIN FOR ONLY THE CORNWALL AVE APPROACHES. THE ILLINOIS ST APPROACHES ARE PROPOSED TO RUN CONCURRENTLY WITH PERMISSIVE LEFT TURNS. SEE SIGNAL PHASING DIAGRAM FOR FURTHER DETAILS. PLEASE ADVISE IF THIS SIGNAL PHASING IS APPROPRIATE.
3. IF PERMISSIVE LEFTS ARE TO BE ALLOWED FOR THE EB AND WB ILLINOIS DIRECTIONS, THE R10-12 SIGN (LEFT TURN YIELD ON GREEN BALL) CAN BE UTILIZED ON THE MAST ARM TO FURTHER INDICATE THIS CONDITION. PLEASE ADVISE IF THIS SIGN SHOULD BE ADDED.
4. EXISTING LOOPS ARE TO BE IMPACTED AND RADAR DETECTION IS PROPOSED AS SHOWN. PLEASE ADVISE IF RADAR DETECTION OR LOOP DETECTION ARE APPROPRIATE FOR THIS SIGNAL MODIFICATION.
5. WILL ADVANCED DETECTION BE REQUIRED? IF SO, WHAT DISTANCE SHOULD THOSE BE IMPLEMENTED AT?

NOTES

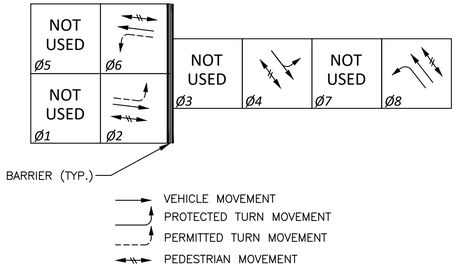
1. SEE SHEET SG01 FOR TRAFFIC SIGNAL GENERAL NOTES, AND LEGEND.
2. SEE SHEET SG03 FOR TRAFFIC SIGNAL FIELD WIRING TERMINATIONS.
3. SEE SHEET SG04 FOR TRAFFIC SIGNAL POLE CHART.
4. SEE CHANNELIZATION, PAVING, DRAINAGE, AND CURB RAMP PLANS FOR FURTHER DETAILS.

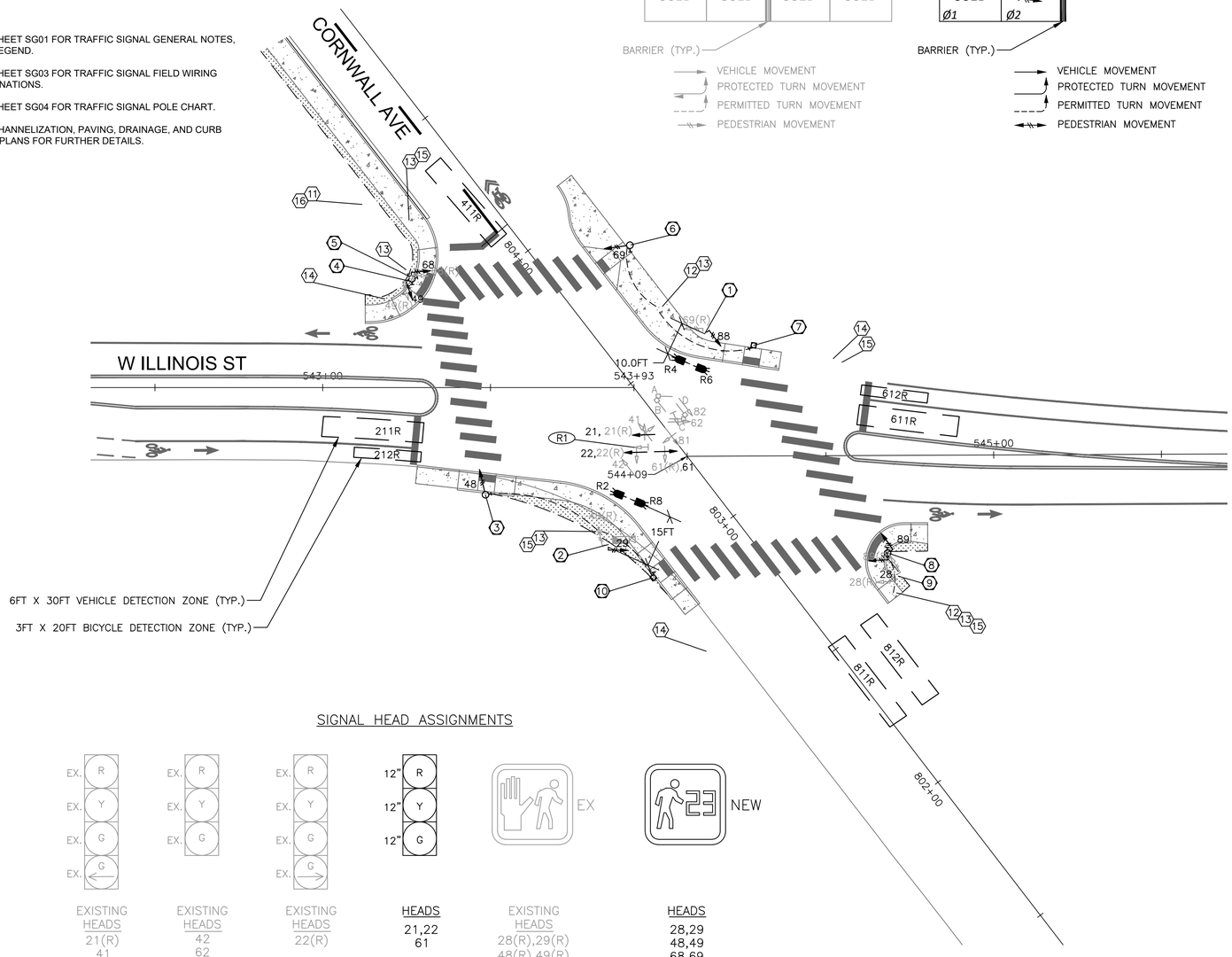
SEC.19 T.38N. R.3E. W.M.

EXISTING SIGNAL PHASING



PROPOSED SIGNAL PHASING





SIGNAL HEAD ASSIGNMENTS

EXISTING HEADS	EXISTING HEADS	EXISTING HEADS	HEADS	EXISTING HEADS	HEADS
21(R) 41 61(R) 81	42 62 82	22(R)	21,22 61	28(R),29(R) 48(R),49(R) 68(R),69(R) 88(R),89(R)	28,29 48,49 68,69 88,89

(R) = REMOVE

WIRING SCHEDULE

# NO.	RACEWAY CONDUIT SIZE*	VEH DET 2C(SH)	EVP DET 3C(SH)	PPB 2C(SH)	VEH INDICATION 5C
1	2" SCH80			1	1
2	2" SCH80			1	2
3	1" SCH80				
4	EX 3"	5 (EX)	1 (EX)	2	2, 2 (EX), 2 (R)
5	EX 3"	4 (EX)	1 (EX)	2	2, 2 (EX), 2 (R)
6	EX 3"	5 (EX)	1 (EX)	2	2, 2 (EX), 2 (R)
	EX 3"	4 (EX)	1 (EX)	2	4 (EX)
7	EX 3"		1 (EX)		4 (EX)
8	EX 3"	4 (EX)	1 (EX)	4	2, 2 (EX), 2 (R)
	EX 3"	5 (EX)	1 (EX)		4 (EX)
9	EX 3"	5 (EX)	1 (EX)	2	2, 2 (EX), 2 (R)
10	EX 3"	4 (EX)	1 (EX)	2	4 (EX)
11	EX 2"				2 (R)
	EX 3"		1 (EX)		4 (EX)

*ALL CONDUIT SHALL BE PVC AND SHALL CONTAIN A GROUND WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR (MINIMUM NO. 8) UNLESS OTHERWISE NOTED.

EX = EXISTING TO REMAIN
R = REMOVE

TO BE COMPLETED

PRE-EMPTION SCHEDULE (EX.)

CHANNEL	SIGNAL PHASE(S)
A	ø2
B	ø4
C	ø6
D	ø8

CONSTRUCTION NOTES:

1. MAINTAIN AND PROTECT EXISTING TRAFFIC SIGNAL POLE, BRIDGE AND ALL APPURTENANCES. REMOVE EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLIES AND PEDESTRIAN SIGNAL HEADS FROM POLE. REPAIR RESULTANT HOLES IN POLE WITH WATERTIGHT SEAL AS APPROVED BY THE ENGINEER. INSTALL ONE PEDESTRIAN SIGNAL HEAD (TYPE E MOUNT) ON POLE. INSTALL TWO STOP LINE RADAR DETECTORS ON SIGNAL BRIDGE PER MANUFACTURER'S RECOMMENDATION. REMOVE AND REPLACE ONE VEHICLE SIGNAL HEAD ON EXISTING TENON.
2. MAINTAIN AND PROTECT EXISTING TRAFFIC SIGNAL POLE, BRIDGE AND ALL APPURTENANCES. REMOVE EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLIES AND PEDESTRIAN SIGNAL HEADS FROM POLE. REPAIR RESULTANT HOLES IN POLE WITH WATERTIGHT SEAL AS APPROVED BY THE ENGINEER. INSTALL ONE PEDESTRIAN SIGNAL HEAD (TYPE E MOUNT) ON POLE. INSTALL TWO STOP LINE RADAR DETECTORS ON SIGNAL BRIDGE PER MANUFACTURER'S RECOMMENDATION. REMOVE AND REPLACE TWO VEHICLE SIGNAL HEADS ON EXISTING TENON.
3. CONSTRUCT CURB BASE TYPE FOUNDATION AND INSTALL TYPE PS SIGNAL POLE. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON WITH APS SPEECH MESSAGE AS SHOWN IN TABLE ON THIS SHEET AND ONE COUNTDOWN STYLE PEDESTRIAN SIGNAL HEAD (TYPE D MOUNT) ON POLE.
4. REMOVE EXISTING POLE AND ALL APPURTENANCES.
5. CONSTRUCT CURB BASE TYPE FOUNDATION AND INSTALL TYPE PS SIGNAL POLE. INSTALL TWO APS STYLE PEDESTRIAN PUSHBUTTON ASSEMBLIES WITH APS SPEECH MESSAGES AS SHOWN IN TABLE ON THIS SHEET AND TWO COUNTDOWN STYLE PEDESTRIAN SIGNAL HEADS (TYPE C MOUNT) ON POLE.
6. CONSTRUCT FOUNDATION AND INSTALL TYPE PS SIGNAL POLE. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH APS SPEECH MESSAGE AS SHOWN IN TABLE ON THIS SHEET AND ONE COUNTDOWN STYLE PEDESTRIAN SIGNAL HEAD (TYPE D MOUNT) ON POLE.
7. CONSTRUCT CURB BASE TYPE FOUNDATION AND INSTALL PEDESTRIAN PUSHBUTTON POST. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH APS SPEECH MESSAGE AS SHOWN IN TABLE ON THIS SHEET.
8. CONSTRUCT CURB BASE TYPE FOUNDATION AND INSTALL TYPE PS SIGNAL POLE. INSTALL TWO APS STYLE PEDESTRIAN PUSHBUTTON ASSEMBLIES WITH APS SPEECH MESSAGES AS SHOWN IN TABLE ON THIS SHEET AND TWO COUNTDOWN STYLE PEDESTRIAN SIGNAL HEADS (TYPE C MOUNT) ON POLE.
9. REMOVE EXISTING POLE AND ALL APPURTENANCES.
10. CONSTRUCT CURB BASE TYPE FOUNDATION AND INSTALL PEDESTRIAN PUSHBUTTON POST. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH APS SPEECH MESSAGE AS SHOWN IN TABLE ON THIS SHEET.
11. MAINTAIN AND PROTECT EXISTING TRAFFIC SIGNAL CONTROLLER CABINET. INSTALL ONE CENTRAL CONTROL UNIT WITH TRAFFIC SIGNAL CONTROLLER CABINET FOR 2-WIRE APS SYSTEM.
12. MAINTAIN AND PROTECT EXISTING JUNCTION BOX. ADJUST LID AND FRAME TO BE FLUSH WITH FINAL GRADE.
13. ROUTE NEW CONDUIT INTO EXISTING JUNCTION BOX.
14. MAINTAIN AND PROTECT EXISTING UTILITY POLE.
15. ABANDON EXISTING INDUCTION LOOP DETECTOR. REMOVE EXISTING LOOP LEAD-INS BACK TO CONTROLLER CABINET.
16. INSTALL RADAR VEHICLE DETECTION EQUIPMENT WITHIN EXISTING TRAFFIC SIGNAL CONTROLLER CABINET PER MANUFACTURER'S RECOMMENDATION AND CITY OF BELLINGHAM'S DIRECTION.

SIGN LEGEND

R3-8 (MOD)
EX. REMOVE
R1

APS SPEECH MESSAGES

STREET (A)	STREET (B)	ARROW DIRECTION	QUANTITY
CORNWALL	ILLINOIS	LT	2
CORNWALL	ILLINOIS	RT	2
ILLINOIS	CORNWALL	LT	2
ILLINOIS	CORNWALL	RT	2

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PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TNK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

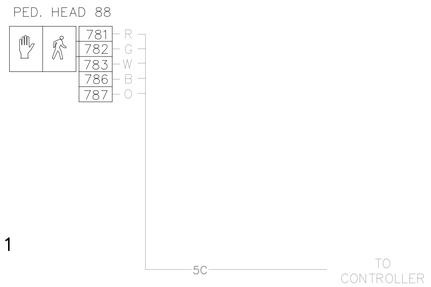
WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC SIGNAL PLAN

SHEET 80 OF 102

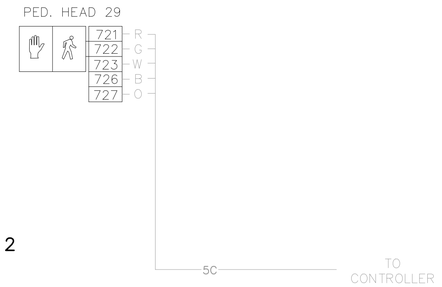
CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-SGNL-PLAN-CORNWALL.DWG

FIELD WIRE TERMINATIONS



POLE NO. 1



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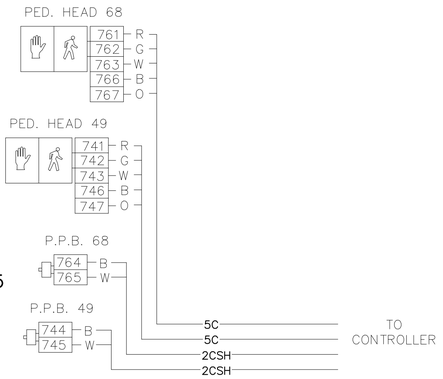

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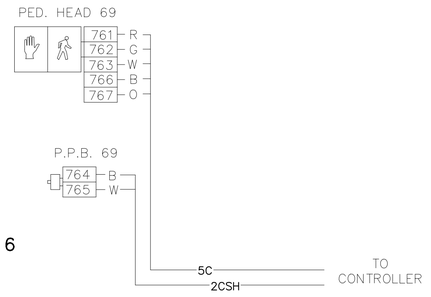

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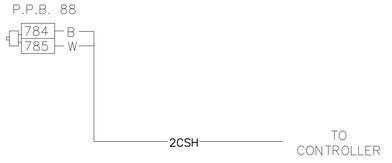

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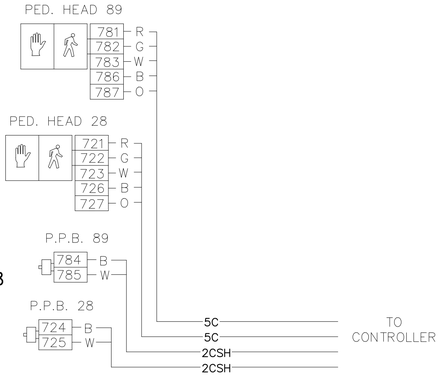

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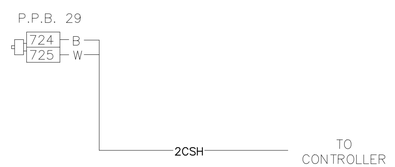

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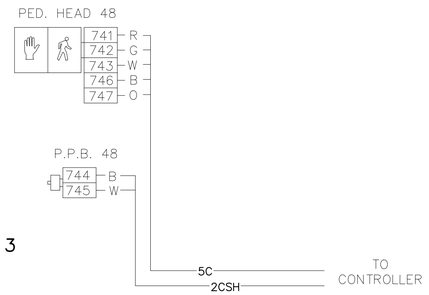

POLE NO. 3

NOTE:

1. NOT ALL WIRING SHOWN. EXISTING WIRING NOT SHOWN SHALL REMAIN AS–IS.

TUAN VAN NGUYEN
STATE OF WASHINGTON
20111183
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

transpogroup
WHAT TRANSPORTATION CAN BE.

12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034

(TEL) 425 821-3665
(FAX) 425 825-8434

90% SUBMITTAL

811 Call 811 two business days before you dig

SG03

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TNNK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
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CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC SIGNAL WIRING DIAGRAM

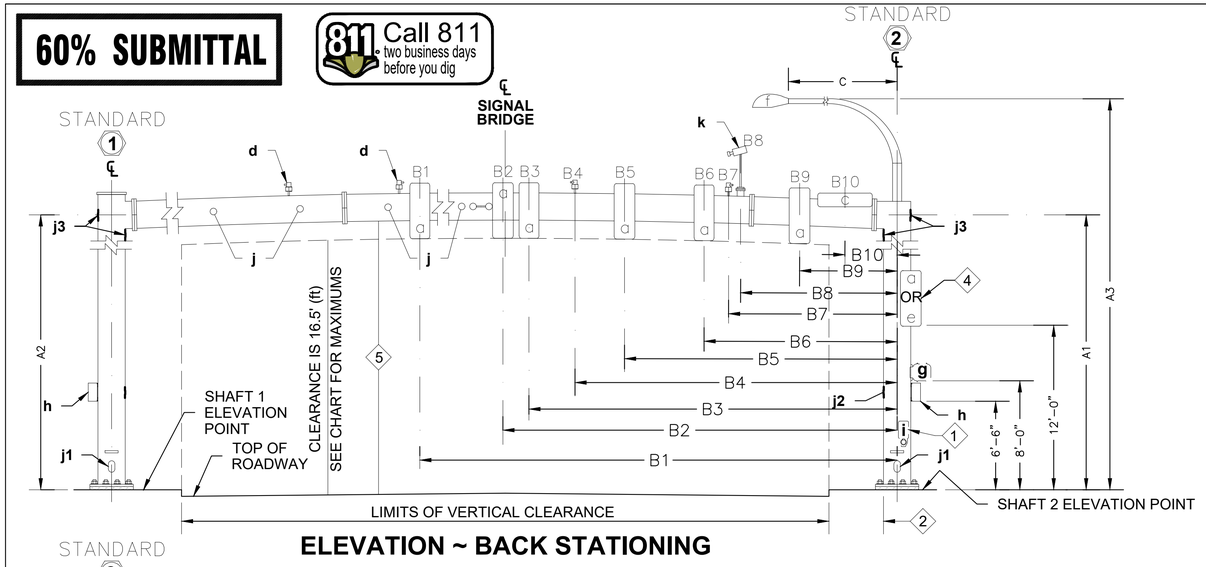
SHEET 81 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

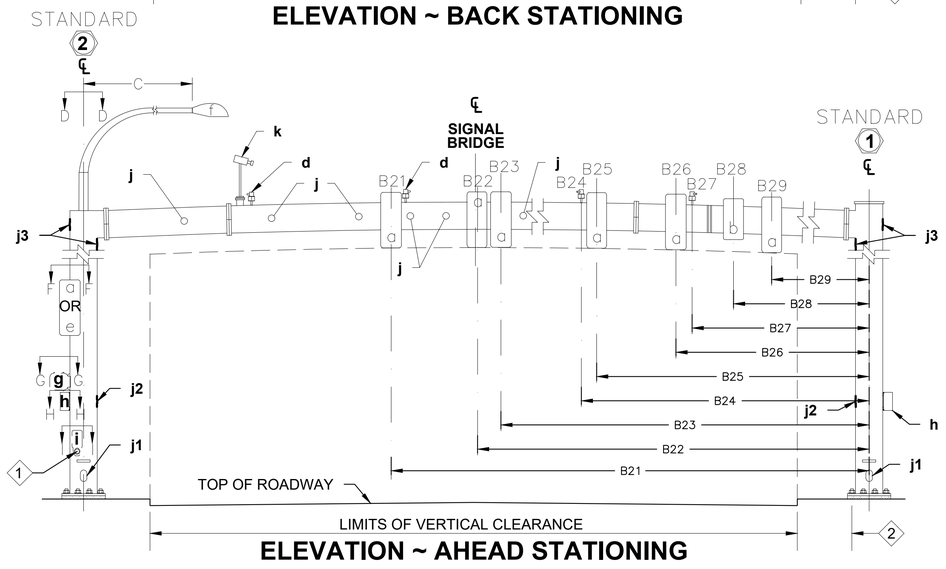
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-SGNL-PLAN-CORNWALL.DWG

60% SUBMITTAL

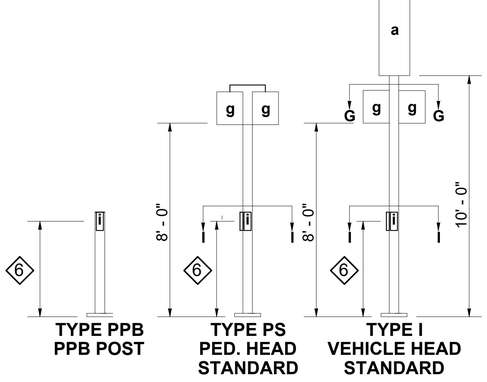
811 Call 811 two business days before you dig

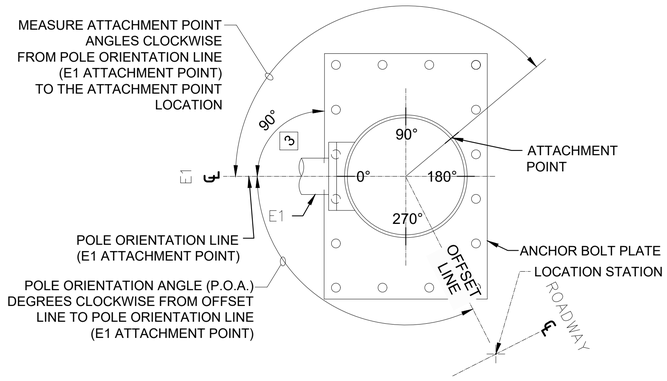


ELEVATION ~ BACK STATIONING



ELEVATION ~ AHEAD STATIONING





POLE ORIENTATION AND ATTACHMENT POINT DETAIL

GENERAL NOTES

1. MOUNTING COUPLING SHALL BE INSTALLED AT OFFSET DISTANCE INDICATED IN CHART FOR ALL SIGNAL HEADS INSTALLED ON THE SIGNAL BRIDGE BEAM. ALL OTHER HARDWARE INSTALLED ON THE BEAM IS TO BE FIELD INSTALLED.
2. ALL HARDWARE INSTALLED ON THE SHAFTS OF THE SIGNAL BRIDGE IS TO BE FIELD INSTALLED.
3. MAXIMUM LENGTH OF THE SIGNAL BRIDGE IS 200' (FT), MEASURED FROM CENTERLINE OF STANDARD # 1 TO CENTERLINE OF STANDARD # 2.
4. VERIFY HAND HOLE LOCATIONS WITH THE ENGINEER PRIOR TO FABRICATION.
5. HAND HOLES SHALL BE INSTALLED AT THE TIME OF FABRICATION.
6. INSTALL HAND HOLE ON OUTSIDE OF THE POST AT BEAM LEVEL WHEN FOUNDATION IS CAST AT GRADE. INSTALL HAND HOLE ON TRAFFIC SIDE OF POST WHEN SIGNAL BRIDGE IS MOUNTED ON BRIDGE, RETAINING WALL OR OTHER STRUCTURE.

KEY NOTES

1. HEIGHT OF PEDESTRIAN PUSHBUTTON: 42" (IN)
2. PLACEMENT SHALL BE 4' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER; 3' - 0" MIN. FROM FACE OF GUARDRAIL; 4' - 0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE (TOE). MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER TO FACE OF POLE
3. DMS OR VMS IS NOT ALLOWED ON THIS SIGNAL BRIDGE.
4. FOR SHAFT-MOUNTED SIGNS THERE SHALL BE 2' - 0" MIN. FROM THE FACE OF THE CURB OR THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN
5. MINIMUM SIGNAL BRIDGE VERTICAL CLEARANCE 20' - 0" ABOVE THE ROADWAY
6. 3' - 6" MEASURED FROM SIDEWALK SURFACE TO CENTER OF PEDESTRIAN PUSH BUTTON

LEGEND

a. VEHICLE DISPLAY
b. MAST ARM-MOUNTED SIGN
c. STREET NAME SIGN
d. PREEMPT DETECTOR
e. POST-MOUNTED SIGN
f. LUMINAIRE
g. PEDESTRIAN DISPLAY
h. TERMINAL CABINET
i. APS ASSEMBLY
j. HAND HOLE
k. CAMERA

SIGN NOTES

SIGN **b** - MAXIMUM SIZE IS 3' (FT) x 3' (FT), 9 SQ. FT.

SIGN **c** - MAXIMUM SIZE IS 4' (FT) x 12' (FT), 48 SQ. FT. INSTALLED 1' - 0" MINIMUM AND 2' - 6" MAXIMUM TO SIGN EDGE FROM CENTERLINE OF THE POST.

SIGN **e** - MAXIMUM SIZE IS 4' (FT) x 4' (FT), 16 SQ. FT.

STANDARD TYPE		STANDARD PLAN REFERENCES			
		POLE	FOUNDATION		ELECTRICAL
			STANDARD	CURB	
PPB	FIXED	J-20.10	J-20.10	J-20.11	J-20.10
	BREAK AWAY	J-20.15	J-20.15		J-20.15
PS		J-20.16	J-21.10		J-20.20
I		J-21.15	J-21.10		J-21.20
II, III, SD		N/A	J-26.10, J-26.15	N/A	N/A

SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY

HORIZONTAL DISTANCE FROM STOP LINE	40' (FT)		45' (FT)		50' (FT)		53' – 180' (FT)	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12" 5 SECTION DOGHOUSE 12"	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
4 SECTION 12"	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
5 SECTION 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'
	MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY							

SIGNAL BRIDGE DETAIL CHART

STD. No.	CENTERLINE STATIONING	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)			SIGNAL MASTARM DATA																					LUMINAIRE ARM (ft)	CALCULATED POLE XYZ(FT³)	POLE ATTACHMENT POINT ANGLES (deg.)								FOUNDATION DESIGN XYZ(FT³)	FOUNDATION DEPTH (FT)	REMARKS
		STATION	OFFSET (FT)	LT.	RT.	ELEV.(FT)	P.O.A		A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	C		D	E1	E2	F	G1	G2	H	I1	I2			
1	ILLINOIS																																														
2	ILLINOIS																																														
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6	ILLINOIS																																														
7	ILLINOIS																																														
8	ILLINOIS																																														
10	ILLINOIS																																														

TO BE COMPLETED

TRANSPO GROUP
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KIRKLAND, WASHINGTON 98034
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SG04

No	Revision	By	Date
4			
3			
2			
1			

PROJECT ENGINEER BAS
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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC SIGNAL POLE CHART

SHEET 82 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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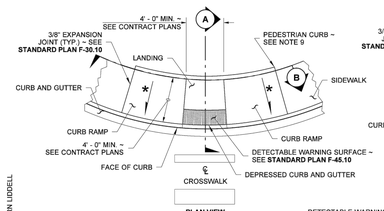
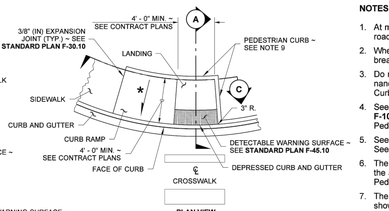
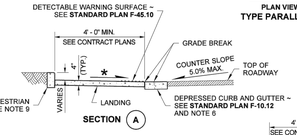


PLAN VIEW
TYPE PARALLEL A



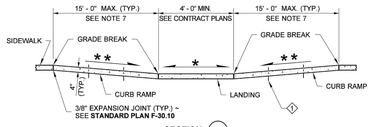
PLAN VIEW
TYPE PARALLEL B

DRAWN BY: FERN LIDDELL

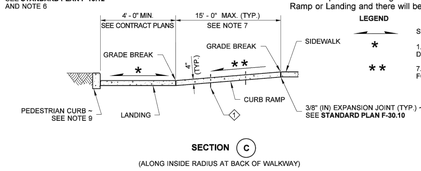


SECTION (A)

1 CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.1** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0"PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



SECTION (B)
(ALONG INSIDE RADIUS AT BACK OF WALKWAY)



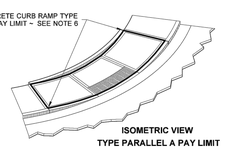
SECTION (C)
(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

LEGEND

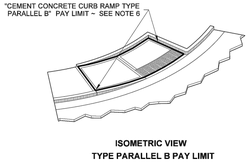
SLOPE IN EITHER DIRECTION

* 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) ~ SEE NOTE 7



ISOMETRIC VIEW
TYPE PARALLEL A PAY LIMIT



ISOMETRIC VIEW
TYPE PARALLEL B PAY LIMIT

NOTES

1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

R. SCOTT ZELLER — STATE OF WASHINGTON — 29580 — REGISTERED PROFESSIONAL ENGINEER

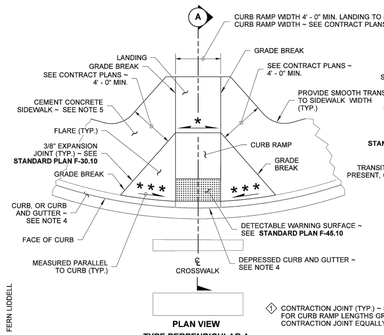
Zeller, Scott
Jun 24 2016 7:19 AM

PARALLEL CURB RAMP

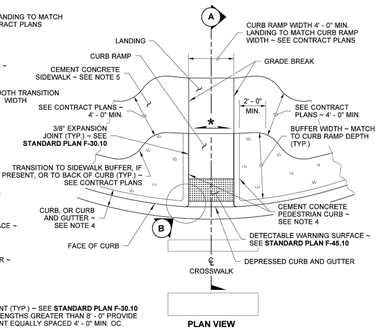
STANDARD PLAN F-40.12-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 29 2016 2:27 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



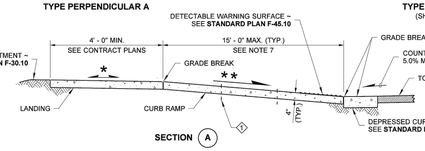
PLAN VIEW
TYPE PERPENDICULAR A



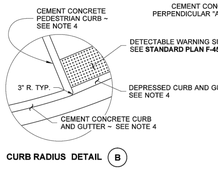
PLAN VIEW
TYPE PERPENDICULAR B
(SHOWN WITH BUFFER)

DRAWN BY: FERN LIDDELL

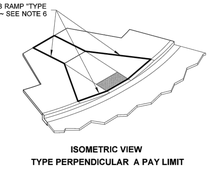
1 CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.10** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



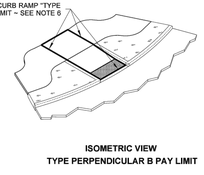
SECTION (A)



CURB RADIUS DETAIL (B)



ISOMETRIC VIEW
TYPE PERPENDICULAR A PAY LIMIT



ISOMETRIC VIEW
TYPE PERPENDICULAR B PAY LIMIT

NOTES

1. At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in front of the Curb Ramp where it connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
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8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

LEGEND

SLOPE IN EITHER DIRECTION

* 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)

*** 9.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (10% MAX.)

R. SCOTT ZELLER — STATE OF WASHINGTON — 29580 — REGISTERED PROFESSIONAL ENGINEER

Digitally signed by R. Scott Zeller
Date: 2020.09.22 13:23:53 -07'00'

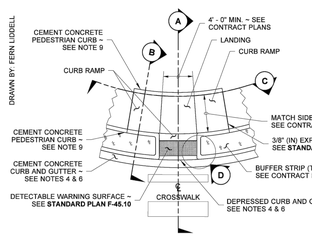
PERPENDICULAR CURB RAMP

STANDARD PLAN F-40.15-04

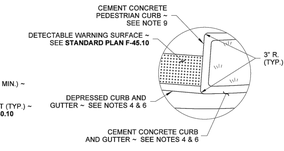
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.25 14:44:37 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



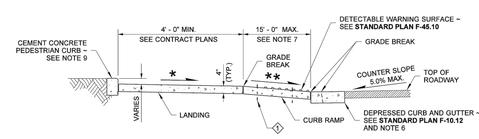
PLAN VIEW
TYPE COMBINATION
WITH BUFFER



DETAIL (D)
CURB RADIUS DETAIL

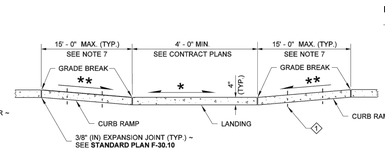
NOTES

1. At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include the abutting landing in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.



SECTION (A)

1 CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.10** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



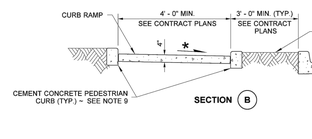
SECTION (C)
(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

LEGEND

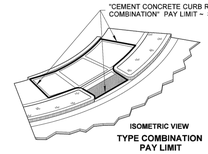
SLOPE IN EITHER DIRECTION

* 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)



SECTION (B)



ISOMETRIC VIEW
TYPE COMBINATION
PAY LIMIT

R. SCOTT ZELLER — STATE OF WASHINGTON — 29580 — REGISTERED PROFESSIONAL ENGINEER

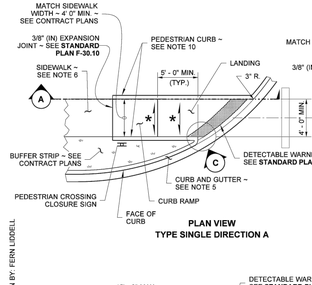
Zeller, Scott
Jun 24 2016 7:20 AM

COMBINATION CURB RAMP

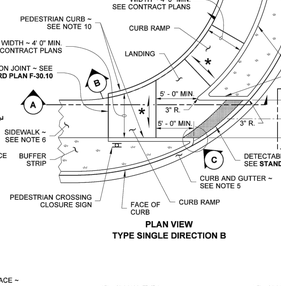
STANDARD PLAN F-40.14-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 29 2016 2:28 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



PLAN VIEW
TYPE SINGLE DIRECTION A

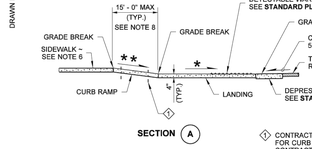


PLAN VIEW
TYPE SINGLE DIRECTION B

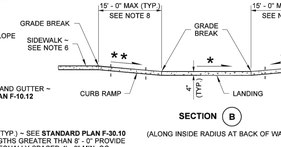
NOTES

1. This plan is to be used where pedestrian crossing in one direction is not permitted.
2. At marked crosswalks, the connection between the Landing and the roadway must be contained within the width of the crosswalk markings.
3. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
4. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing or in the Depressed Curb and Gutter where the Landing connects to the roadway.
5. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
6. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
7. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
8. The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
9. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
10. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

DRAWN BY: FERN LIDDELL



SECTION (A)



SECTION (B)
(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

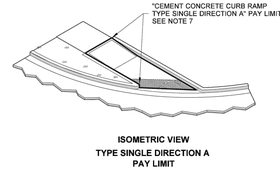
1 CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.10** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.

LEGEND

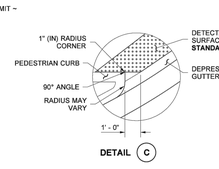
SLOPE IN EITHER DIRECTION

* 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

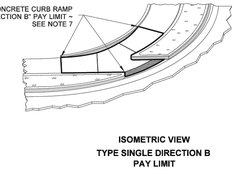
** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) SEE NOTE 7



ISOMETRIC VIEW
TYPE SINGLE DIRECTION A
PAY LIMIT



DETAIL (C)



ISOMETRIC VIEW
TYPE SINGLE DIRECTION B
PAY LIMIT

R. SCOTT ZELLER — STATE OF WASHINGTON — 29580 — REGISTERED PROFESSIONAL ENGINEER

Zeller, Scott
Jun. 24 2016 7:21 AM

SINGLE DIRECTION CURB RAMP

STANDARD PLAN F-40.16-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 29 2016 2:29 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

90% SUBMITTAL

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BRETT ADAM BARRY — STATE OF WASHINGTON — 52557 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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WHAT TRANSPORTATION CAN BE.
12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034
(TEL) 425 821-3665
(FAX) 425 825-8434

DET01

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

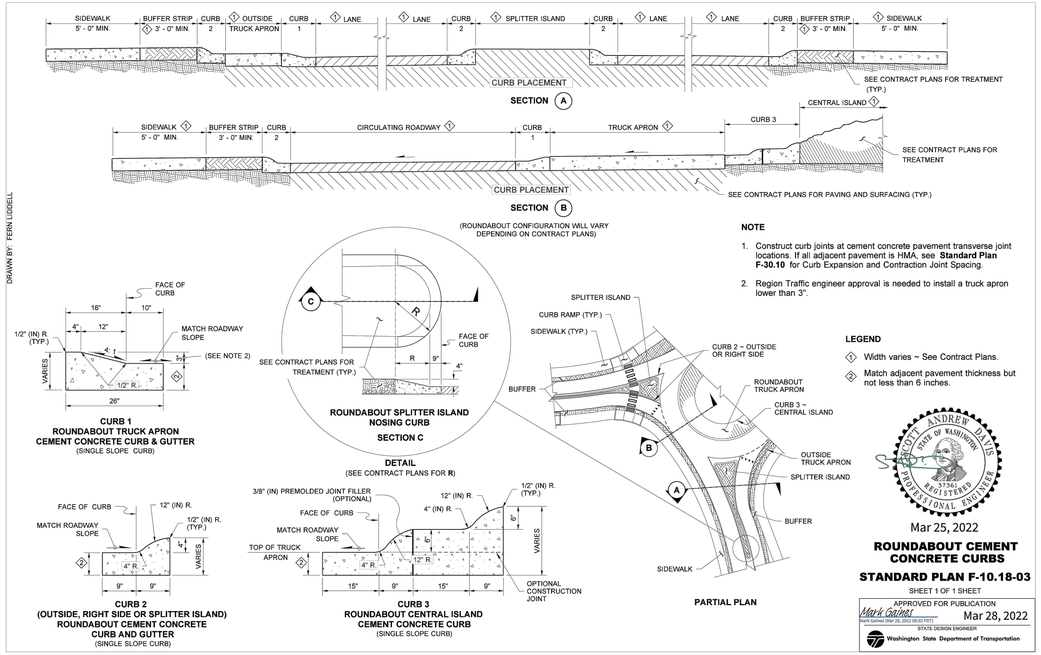
Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

SHEET 83 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-DETAILS.DWG



NOTE

1. Construct curb joints at cement concrete pavement transverse joint locations. If all adjacent pavement is HMA, see **Standard Plan F-30.10** for Curb Expansion and Contraction Joint Spacing.
2. Region Traffic engineer approval is needed to install a truck apron lower than 3".

LEGEND

① Width varies ~ See Contract Plans.

② Match adjacent pavement thickness but not less than 6 inches.

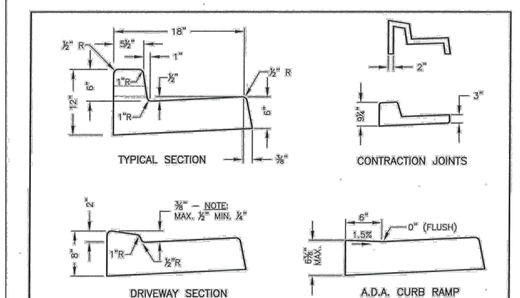
Mar 25, 2022

ROUNDABOUT CEMENT CONCRETE CURBS

STANDARD PLAN F-10.18-03

SHEET 1 OF 1 SHEET

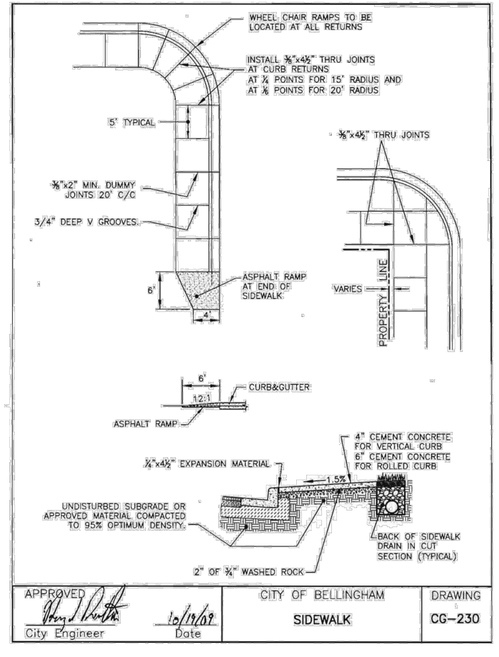
APPROVED FOR PUBLICATION
Mark Gaines Mar 28, 2022
Mark Gaines (Mar 28, 2022 08:53 PDT)
STATE DESIGN ENGINEER
Washington State Department of Transportation



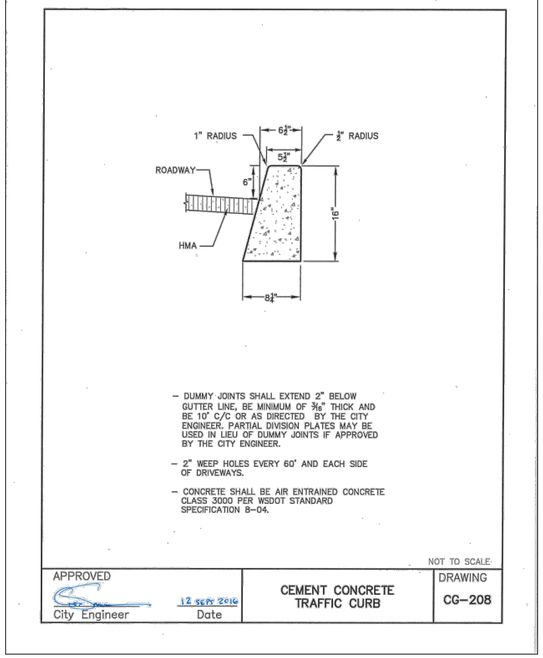
GENERAL NOTES:

1. CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE. TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. ⅜" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
2. ALL RADII LESS THAN 100' SHALL USE FLEXIBLE WOOD OR METAL FORMS TO ELIMINATE ANGULAR POINTS AT 10' SECTION POINTS.
3. 2"ø PVC SCHD 40 WEEP HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION AND AT MAX. OF 60' C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY CITY ENGINEER.
4. ¾" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS, & COLD JOINTS OR A MAX. OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE ½" BELOW THE BOTTOM OF GUTTER.
5. CONCRETE SHALL BE COMMERCIAL CONCRETE CLASS 3000 PER WSDOT SPEC. 6-02.3(2)B.
6. FINISHED WORK SHALL NOT VARY MORE THAN ¼-INCH IN GRADE AND ½-INCH IN ALIGNMENT WHEN CHECKED WITH A 10-FOOT STRAIGHT EDGE.
7. EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH.
8. WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
9. FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

APPROVED	CITY OF BELLINGHAM	DRAWING
City Engineer — Date: 24 MAY 2018	TYPE 'A' MODIFIED CURB AND GUTTER	CG-200



APPROVED	CITY OF BELLINGHAM	DRAWING
City Engineer — Date: 10/19/07	SIDEWALK	CG-230



– DUMMY JOINTS SHALL EXTEND 2" BELOW GUTTER LINE, BE MINIMUM OF ⅜" THICK AND BE 10' C/C OR AS DIRECTED BY THE CITY ENGINEER. PARTIAL DIVISION PLATES MAY BE USED IN LIEU OF DUMMY JOINTS IF APPROVED BY THE CITY ENGINEER.

– 2" WEEP HOLES EVERY 60' AND EACH SIDE OF DRIVEWAYS.

– CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000 PER WSDOT STANDARD SPECIFICATION 8-04.

NOT TO SCALE

APPROVED	CEMENT CONCRETE TRAFFIC CURB	DRAWING
City Engineer — Date: 12 SEPT 2016		CG-208

90% SUBMITTAL

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PRELIMINARY — BRETT ADAM DAVIS — STATE OF WASHINGTON — 52551 — REGISTERED PROFESSIONAL ENGINEER

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(TEL) 425 821-3665
(FAX) 425 825-8434

DET02

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

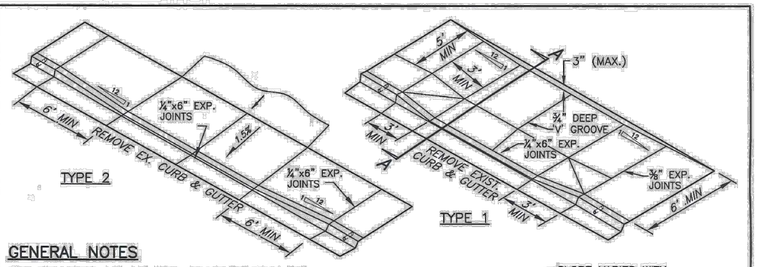
SHEET 84 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

\\SRV-DFS-WA\PROJECTS\21\1-21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-DETAILS.DWG

APPROVED
City Engineer
Date 2/22/13

CITY OF BELLINGHAM
DRIVEWAY SECTIONS
CG-260 DRAWING



GENERAL NOTES

FOR DRIVEWAYS 12'–16' WIDE, PLACE ¾" DEEP "V" GROOVE AT MID PT. FOR DRIVEWAYS 17'–30' WIDE, PLACE ¾" DEEP "V" GROOVE AT 1/3 PTS.

DRIVEWAY SECTIONS SHALL BE 6" THICK MINIMUM.

DRIVEWAY SECTIONS AND RAMPS SHALL BE 6" MINIMUM CONCRETE CLASS 'C'.

A 2"ø PVC SCHD 40 WEEP HOLE SHALL BE INSTALLED EACH SIDE OF DRIVEWAY.

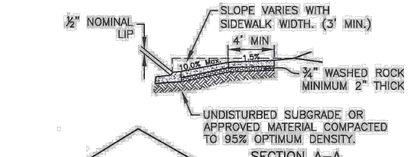
DRIVEWAY WIDTHS SHALL BE A MINIMUM OF 12' AND A MAXIMUM OF 30' (OR MATCH EXISTING AS DIRECTED).

ALL JOINTS SHALL BE CLEANED AND EDGED.

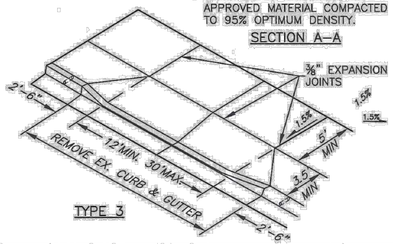
SECTION SHALL BE BRUSH FINISHED (PARALLEL TO STREET) WITH FIBER BRUSH.

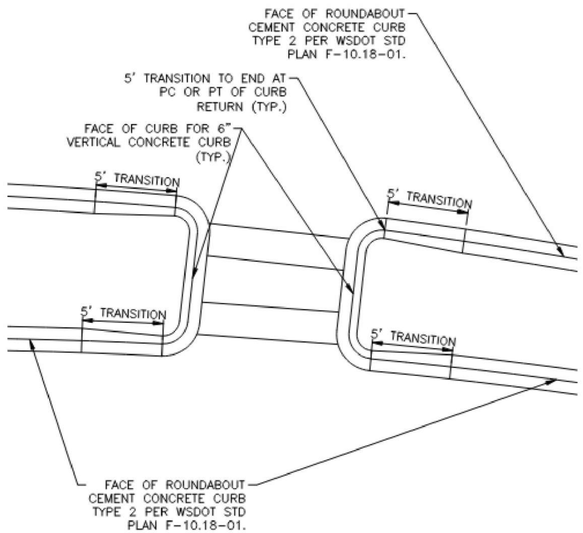
FOR CURB CUTS THAT DO NOT HAVE AN ADJACENT SIDEWALK, THE DRIVEWAY ELEVATION 5 FEET BEHIND THE CURB SHALL BE 0.5 FEET ABOVE THE CORRESPONDING LIP OF GUTTER. THE DRIVEWAY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT THE FLOW CAPACITY OF THE GUTTER IS NOT COMPROMISED.

ALL SLOPES ARE RELATIVE TO THE GUTTER FLOW LINE.

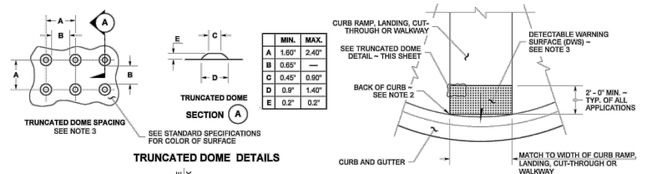


SECTION A–A





DETAIL A
MEDIAN REFUGE ISLAND
N.T.S.



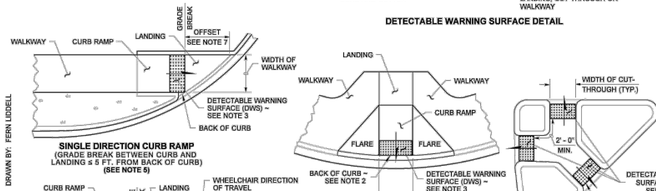
	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

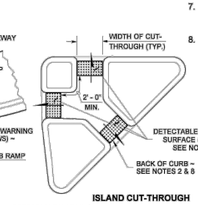
TRUNCATED DOME DETAILS

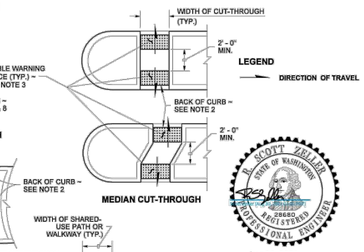
DETECTABLE WARNING SURFACE DETAIL

NOTES

1. Permanent Detectable Warning Surfaces (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the Manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2" (in) on each side of the DWS is permitted.
2. Permanent Detectable Warning Surfaces (DWS) shall be placed on a minimum 4" (in) thick concrete pad. The DWS panel shall be placed adjacent to the back of the curb and with no more than a 2" (in) gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2" (in) from the back of the curb is permitted (measured at the leading corners of the DWS panel).
3. The rows of truncated domes shall be aligned to be parallel to the direction of travel, and perpendicular to the grade break at the back of curb.
4. If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
5. See **Standard Plans** for sidewalk and curb ramp details.
6. If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail crossing.
7. When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.
8. Glued or stick down Detectable Warning Surfaces are allowed only for temporary work zone applications.







PLACEMENT GUIDELINES

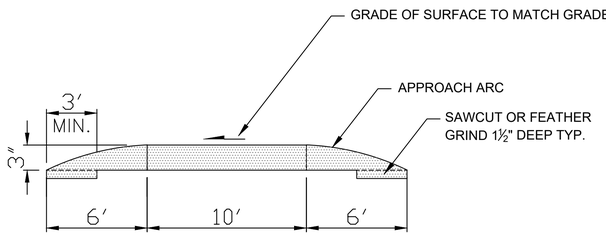
R. SCOTT ZELLER
STATE OF WASHINGTON
28582
REGISTERED PROFESSIONAL ENGINEER
Aug 30, 2021

DETECTABLE WARNING SURFACE

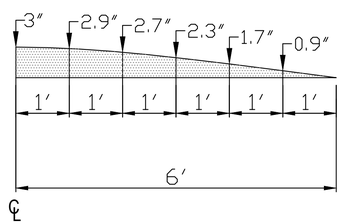
STANDARD PLAN F-45.10-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Aug 31, 2021
STATE DESIGN ENGINEER
Washington State Department of Transportation



RAISED CROSSWALK SECTION
DETAIL
N.T.S



APPROACH ARC DETAIL

RAISED CROSSWALK DETAIL
N.T.S

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DET03

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	4			
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

SHEET 85 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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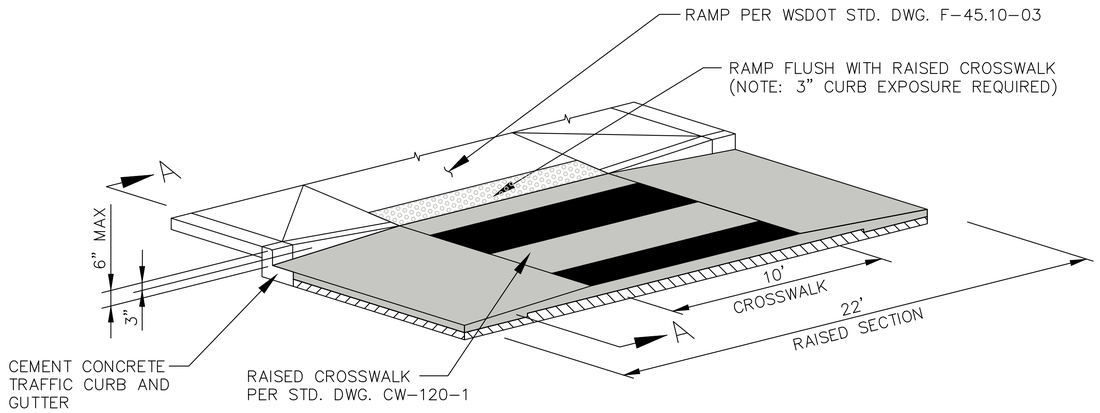
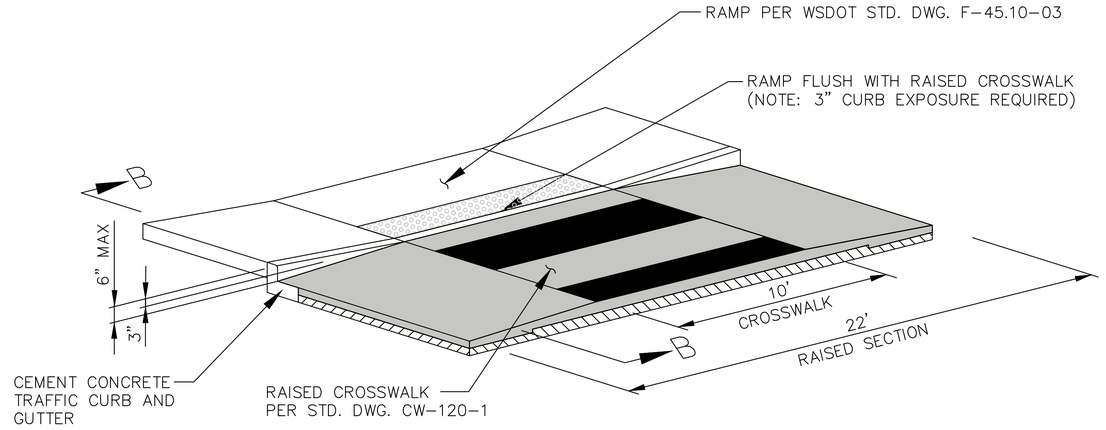


MODIFIED PERPENDICULAR CURB RAMP



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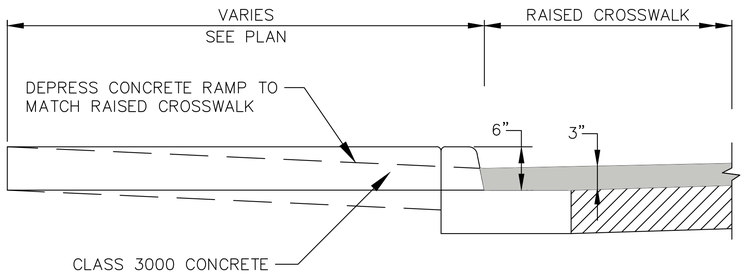
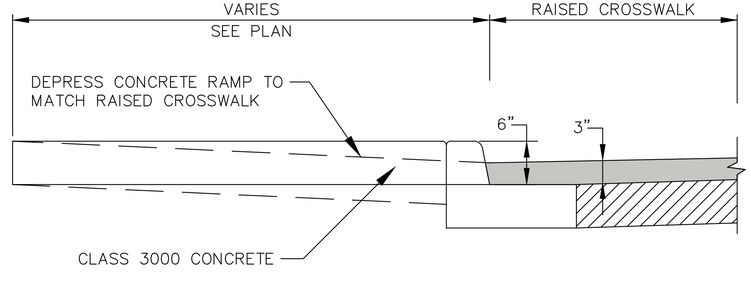


SECTION A-A



SECTION B-B

RAISED CROSSWALK WITH PERPENDICULAR CURB RAMP
N.T.S

RAISED CROSSWALK WITH PARALLEL CURB RAMP
N.T.S

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BRENT ADAM SWICK
STATE OF WASHINGTON
22551
REGISTERED
PROFESSIONAL ENGINEER

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DET04

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
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Job. No. ES-0560 / ES-0561
Date 10/02/2023
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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

SHEET 86 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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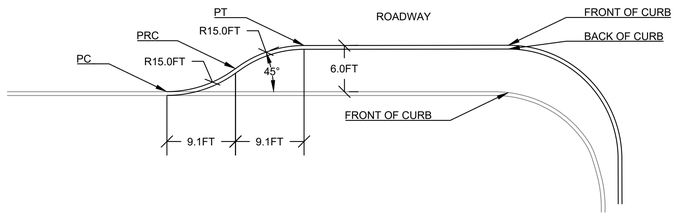

CURB EXTENSION
N.T.S

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

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Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

SHEET 87 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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STATE OF WASHINGTON
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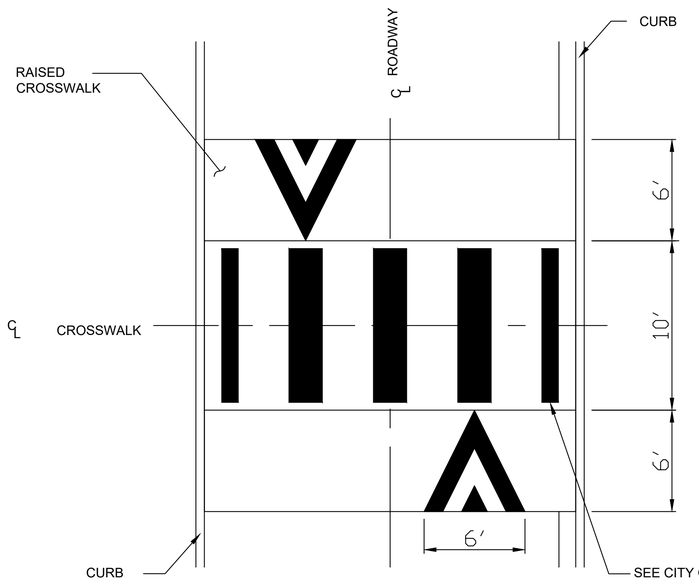
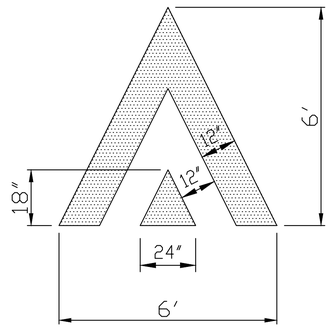
DET05



RAISED CROSSWALK MARKING DETAIL
N.T.S



CHEVRON DETAIL
N.T.S.

NOTES:

1. RAISED CROSSWALK CHEVRON MARKING SHALL BE THERMOPLASTIC, HEAT FUSED PREFORMED, 90 MIL., OR EQUAL APPROVED BY THE ENGINEER.
2. CHEVRON TO BE CENTERED IN THE DRIVING LANE. LOCATION SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

BRETT ADAM BERRY — STATE OF WASHINGTON — 22551 — REGISTERED PROFESSIONAL ENGINEER
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DET06

Date	No	Revision	By
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
PAVING DETAILS

SHEET 88 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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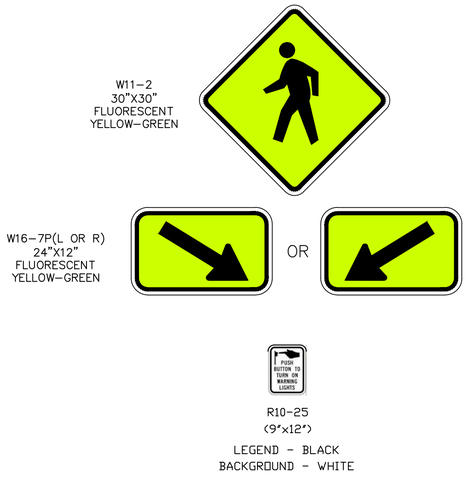
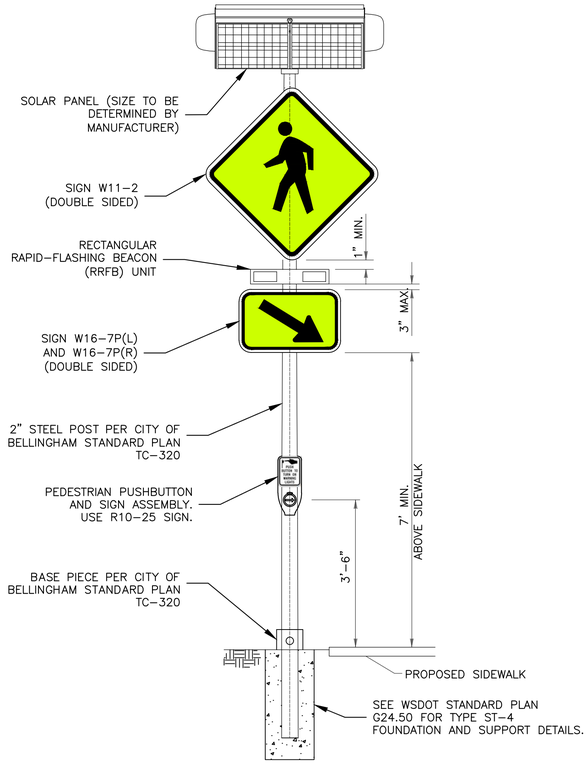


R10-25
(9"x12")

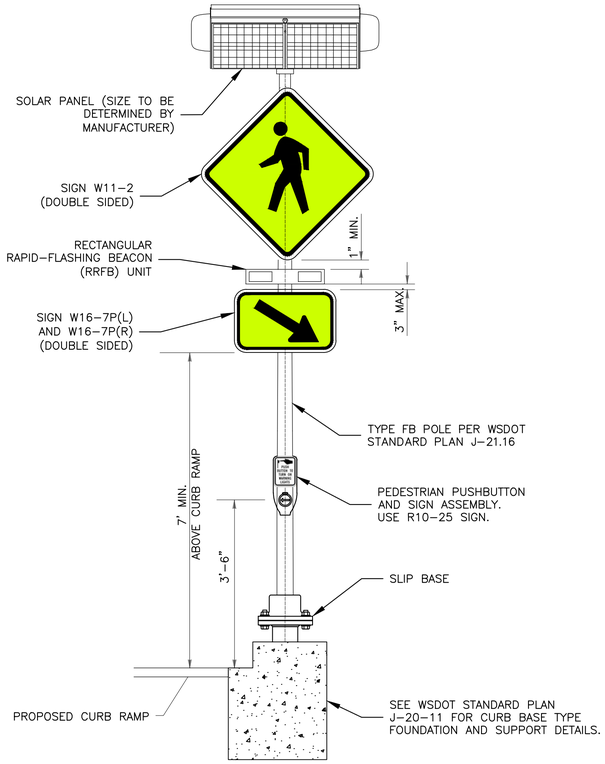
LEGEND - BLACK
BACKGROUND - WHITE

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.



TYPICAL INSTALLATION



CURB BASE TYPE INSTALLATION

RECTANGULAR RAPID FLASHING BEACON (RRFB) AND SIGN DETAIL

N.T.S.

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STATE OF WASHINGTON
20111183
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ELD01

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PROJECT ENGINEER BAS
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INSPECTOR D.K.

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
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DATUM
2926

Job. No. ES-0561
Date 2/10/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
RRFB DETAILS

SHEET 89 OF 53

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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LEGEND

DESCRIPTION	SYMBOL
RIGHT–OF–WAY	
SIGN NOTE	(#)
DIRECTION OF TRAVEL	
CHANNELIZATION DEVICE (HIGH VISIBILITY)	
TEMPORARY SIGN ON PORTABLE CRASHWORTHY SUPPORT	
TYPE III BARRICADE	
FLAGGER	
WORK AREA	

TRAFFIC CONTROL GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6, WSDOT STANDARD SPECIFICATIONS, AND THE CONTRACT, UNLESS OTHERWISE NOTED. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.

2. POSTED SPEEDS WITHIN THE PROJECT SITE ARE AS FOLLOWS:
   - N SEQUIM AVE (SOUTH OF W DEYTONA ST) = 25 MPH
   - N SEQUIM AVE (NORTH OF W DEYTONA ST) = 30 MPH
   - OLD OLYMPIC HWY = 30 MPH
   - PORT WILLIAMS RD = 35 MPH

   NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF ANY ROAD CLOSURES OR DETOURS:
   - CITY OF SEQUIM PUBLIC WORKS – 360–683–4903
   - CLALLAM TRANSIT – 360–452–4511

3. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES, UNLESS OTHERWISE NOTED IN THESE PLANS OR APPROVED BY THE ENGINEER.

4. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY AND COORDINATE ANY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER A MINIMUM OF 2 WORKING DAYS IN ADVANCE.

5. MAINTAIN ACCESS TO TRANSIT STOPS AT ALL TIMES. COORDINATE WITH CLALLAM TRANSIT (360–452–4511) A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF IMPLEMENTING TEMPORARY TRAFFIC CONTROL THAT WOULD IMPACT A TRANSIT STOP. COORDINATE WITH CLALLAM TRANSIT REGARDING REQUIREMENTS FOR TEMPORARILY RELOCATING TRANSIT STOPS.

6. FLAGGING STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS AS APPROVED BY THE ENGINEER. FLAGGERS SHOULD BE VISIBLE AND DISCERNABLE AS A FLAGGER FROM A MINIMUM DISTANCE OF 1,000'.

7. MAINTAIN EXISTING LANE WIDTHS AT ALL TIMES. DEVICES SHALL BE OFFSET FROM LANE/EDGE LINES BY A MINIMUM OF 2'. THE TRAFFIC CONTROL SUPERVISOR MAY FIELD–ADJUST DEVICES UP TO THE LANE/EDGE LINE IF NEEDED, BUT DEVICES SHALL NOT ENCROACH INTO THE OPEN LANE. WHERE EXISTING LANE WIDTHS CANNOT FEASIBLY BE MAINTAINED, LANE WIDTHS SHALL BE 11' MINIMUM AT ALL TIMES, UNLESS OTHERWISE NOTED IN THESE PLANS.

8. DEVICE SPACING AT CORNERS SHALL BE A MAXIMUM OF 8' APART. THE TRAFFIC CONTROL SUPERVISOR MAY FIELD–ADJUST DEVICES TO PROVIDE TIGHTER SPACING FOR THE PROTECTION OF ROADSIDE FEATURES.

9. WHERE STEEL PLATES ARE NECESSARY TO COVER AN EXCAVATION WITHIN THE ROADWAY, EACH SIDE OF THE PLATE SHALL HAVE A MINIMUM 12" BEARING ON THE SIDES OF THE EXCAVATION. PLATES SHALL BE ANCHORED AND BEDDED ON TEMPORARY PAVEMENT PATCH MATERIAL, SHIMMED TO PREVENT MOVEMENT, ORIENTED PERPENDICULAR TO TRAFFIC, WITH BEDDING TAPERED ON ALL SIDES TO PROVIDE SMOOTH TRANSITION FOR ALL USERS. PLATES SHALL BE TEXTURED TO PROVIDE A NON–SKID SURFACE AS APPROVED BY THE ENGINEER. PLATES SHALL BE DELINEATED WITH PAINT AT ITS EDGES AND WARNING SIGN(S) W8–24 (STEEL PLATE AHEAD) INSTALLED AS DIRECTED BY THE ENGINEER.

10. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE CRASHWORTHY AND COMPLY WITH MUTCD PART 6.

11. CHANNELIZATION DEVICES USED DURING HOURS OF DARKNESS SHALL HAVE RETROREFLECTIVE BANDS.

12. EXISTING SIGNAGE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SIGNAGE SHALL BE REMOVED OR SECURELY COVERED BY A METHOD APPROVED BY THE ENGINEER.

13. TEMPORARY TRAFFIC CONTROL SIGNS IN PLACE AT ONE LOCATION CONTINUOUSLY FOR LONGER THAN THREE DAYS SHALL BE CLASS A.

14. CLASS A CONSTRUCTION SIGNING SHALL BE INSTALLED AS SHOWN IN THESE PLANS AND PER WSDOT STANDARD PLANS K–80.10 AND G–22.10.

15. THE CONTRACTOR SHALL FIELD STAKE AND VERIFY FINAL LOCATIONS OF PROPOSED CLASS A SIGNS WITH THE ENGINEER PRIOR TO INSTALLATION.

16. SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND, UNLESS OTHERWISE NOTED IN THESE PLANS.

17. DIAMOND SHAPED WARNING SIGNS SHALL BE 48" X 48", UNLESS OTHERWISE NOTED IN THESE PLANS.

18. SIGNS MOUNTED TO TYPE 3 BARRICADES SHALL BE INSTALLED PER WSDOT STANDARD PLAN K–80.20 OR THE MANUFACTURER'S RECOMMENDATIONS.

19. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) BOARDS SHOULD BE LOCATED BEHIND GUARDRAIL OR BARRIER WHEREVER FEASIBLE. PCMS BOARDS NOT LOCATED BEHIND GUARDRAIL OR BARRIER SHALL HAVE A TAPER CONSISTING A MINIMUM OF 3 CHANNELIZATION DEVICES IN ADVANCE OF THE PCMS BOARD. PCMS BOARDS SHALL BE REMOVED WHEN NOT DISPLAYING ANY MESSAGES.

20. TYPE 3 BARRICADES SHALL BE INSTALLED PER WSDOT STANDARD PLAN K–80.20.

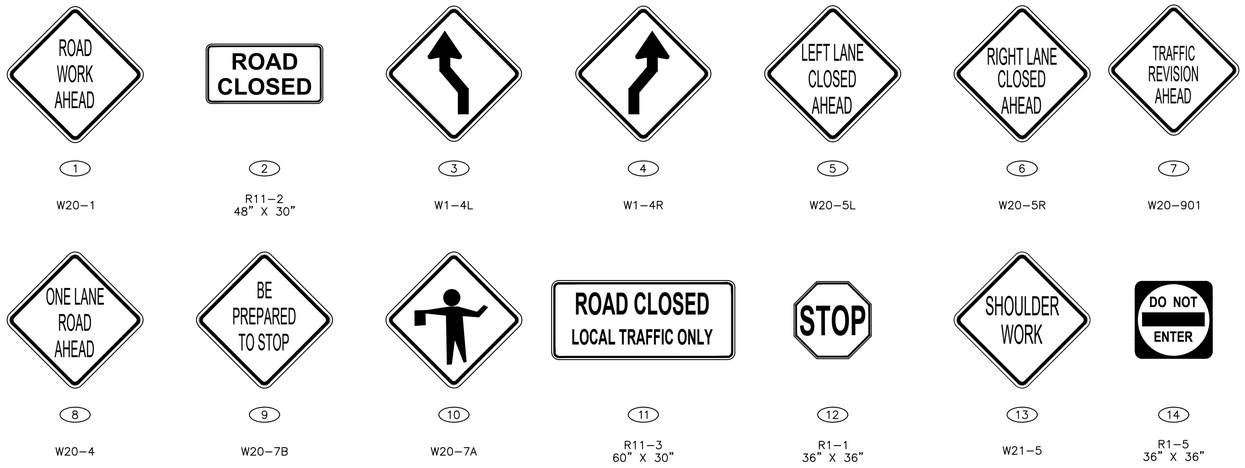
21. PROVIDE PEDESTRIAN AND BICYCLE TRAFFIC WITH AN ALTERNATE ROUTE WHEN EXISTING FACILITIES ARE INTERRUPTED BY CONSTRUCTION ACTIVITIES. ALTERNATIVE ROUTES SHALL BE CLEARLY DELINEATED AND SEPARATED FROM THE CONSTRUCTION ACTIVITIES.

CHANNELIZATION DEVICE SPACING (FT)		
MPH	TAPER	TANGENT
50 / 65	40	80
35 / 45	30	60
25 / 30	20	40

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ±
URBAN STREETS	25 MPH OR LESS	100' ±

MINIMUM LANE CLOSURE TAPER LENGTH = L (FT)										
LANE WIDTH (FT)	POSTED SPEED (MPH)									
	20	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	–	–	–
11	115	165	225	295	495	550	605	660	–	–
12	125	180	245	320	540	600	660	720	780	840

SIGN LEGEND



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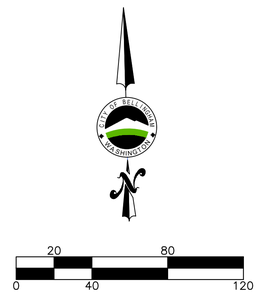

BRETT ADAM ANTHONY
STATE OF WASHINGTON
22551
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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TC01

Date	No	Revision	By
	4		
	3		
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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
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SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL NOTES

SHEET 90 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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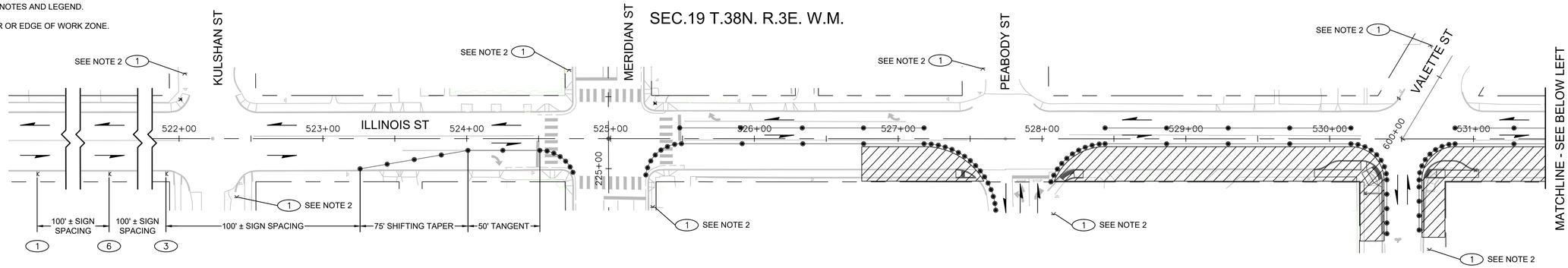
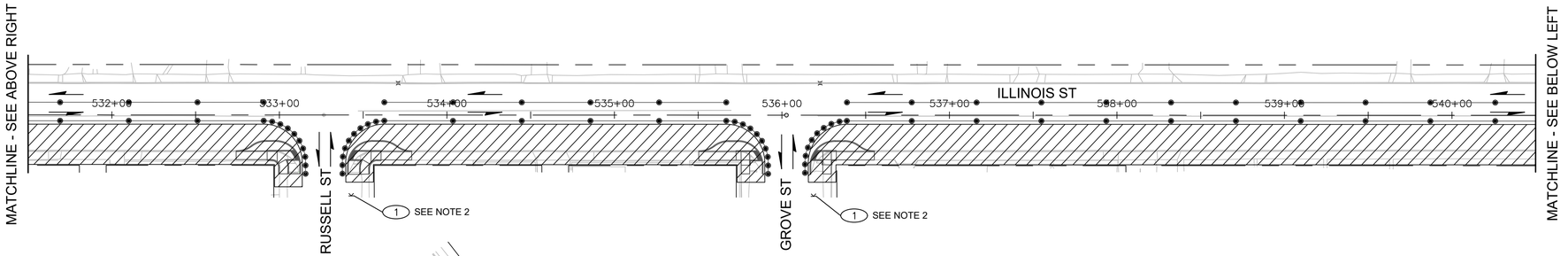
NOTES

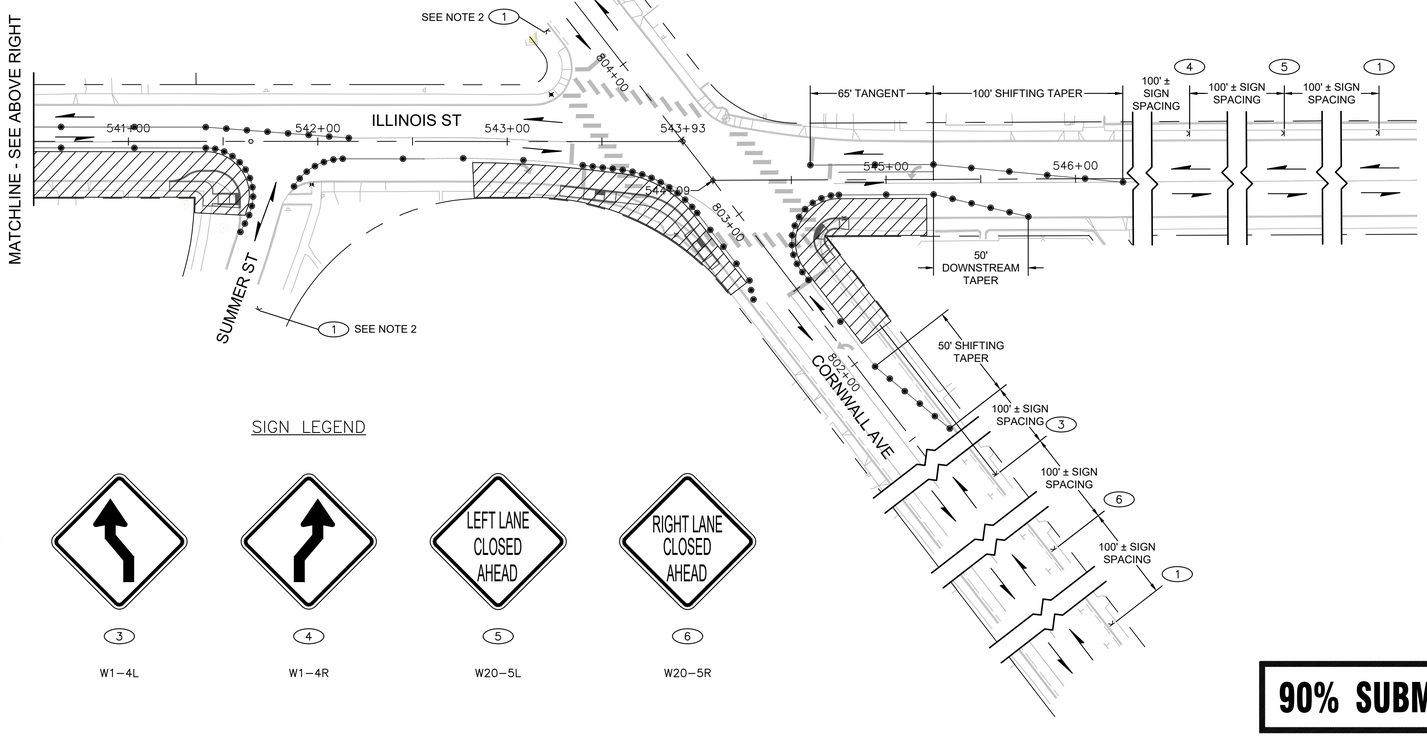
1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.







SIGN LEGEND

1 W20-1 | 3 W1-4L | 4 W1-4R | 5 W20-5L | 6 W20-5R

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TC02

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PROJECT ENGINEER BAS
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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTOL PLAN - ILLINOIS A

SHEET 91 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360)778-7924

Plotted: 02-Oct-2023 By: tnguyen \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-illinois.dwg Layout: TTC02

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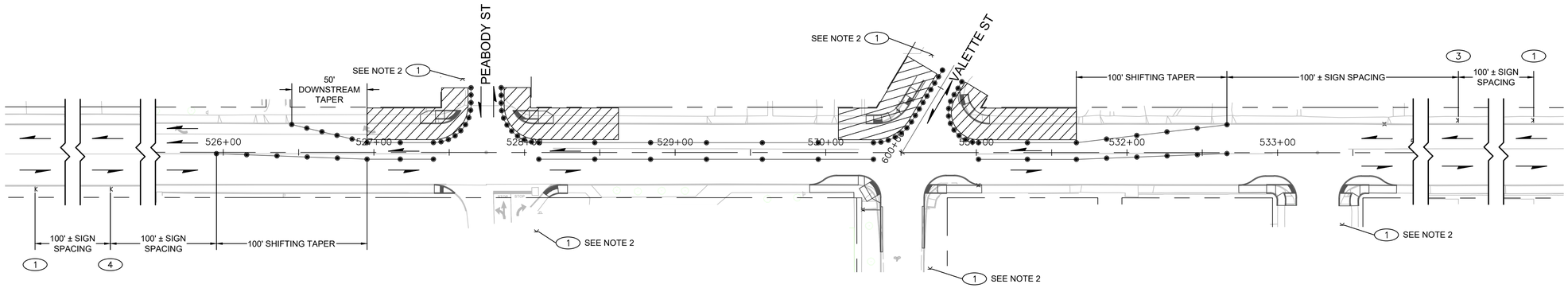
NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1 W20−1

3 W1−4L

4 W1−4R

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Call 811 two business days before you dig

10 40
0 20 60

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TC03

Date	No	Revision	By
	4		
	3		
	2		
	1		

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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SCALE
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTOL PLAN - ILLINOIS B

SHEET 92 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

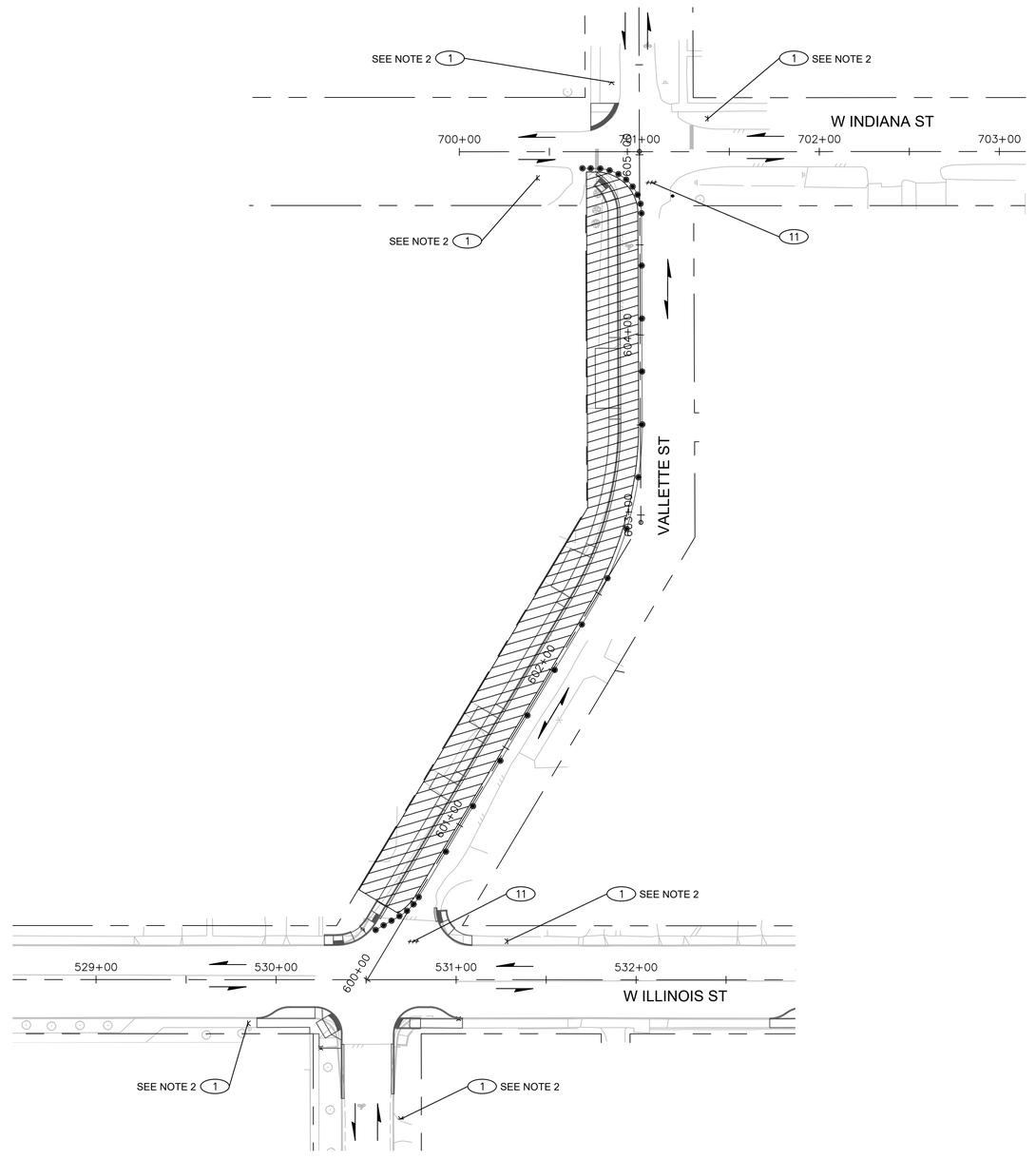
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-ILLINOIS.DWG

NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1

W20-1

11

R11-3
60" X 30"

90% SUBMITTAL

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0 20 60

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TC04

No	Date	Revision	By
4			
3			
2			
1			

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CITY ENGINEER C.M.A.S.
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ENGINEERING DIVISION

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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - VALLETTE

SHEET 93 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 4:24pm - jakej \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-val_ind-cool.dwg Layout: TTC03

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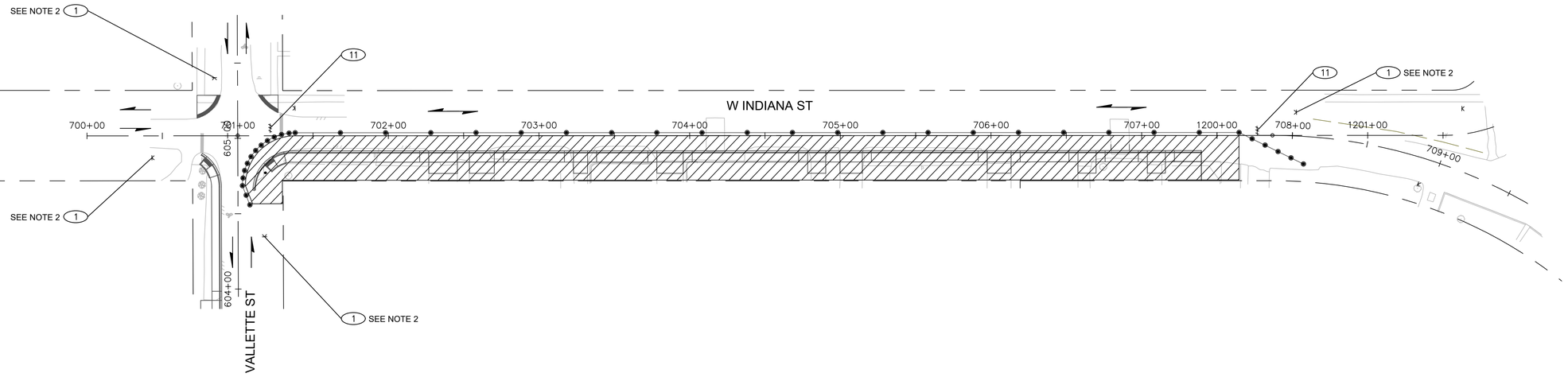
NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1
W20-1

11
R11-3
60" X 30"

90% SUBMITTAL

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TC05

	4		
	3		
	2		
	1		
Date	No	Revision	By

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SCALE
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Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - INDIANA

SHEET 94 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360)778-7924

File: N:\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-VAL_IND-COOL.dwg Layout: TTC04

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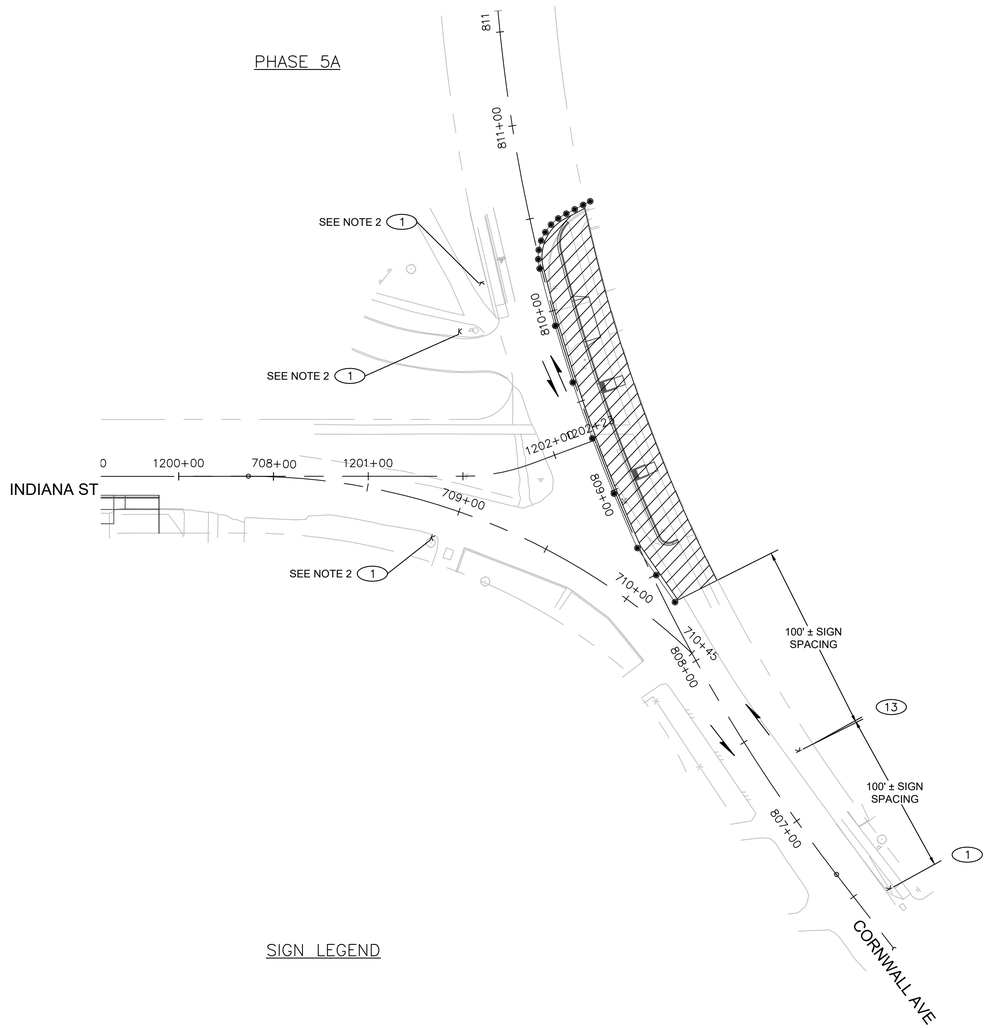
NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

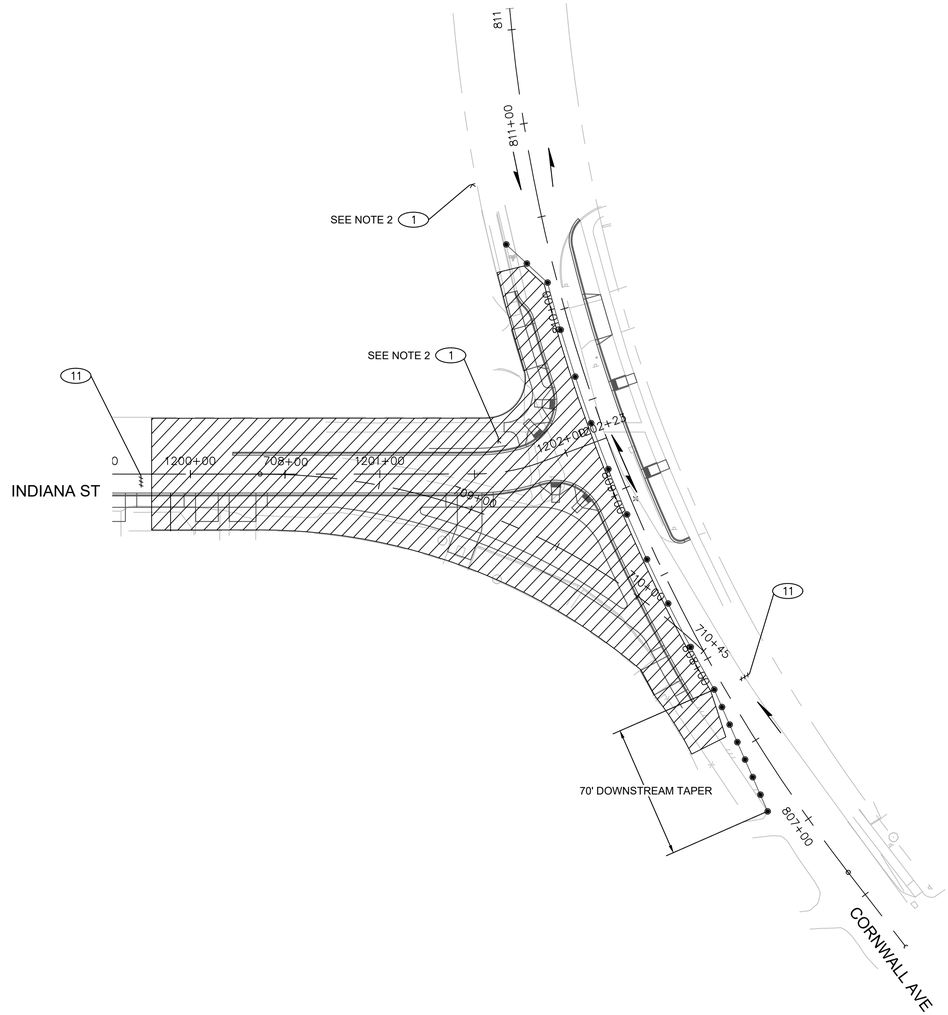
SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.

PHASE 5A



PHASE 5B



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TC06

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	4		
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	2		
	1		

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

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SCALE
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Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTOL PLAN - CORNWALL A & B

SHEET 95 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 4:24pm nikki \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-cornwall.dwg Layout: 5AB

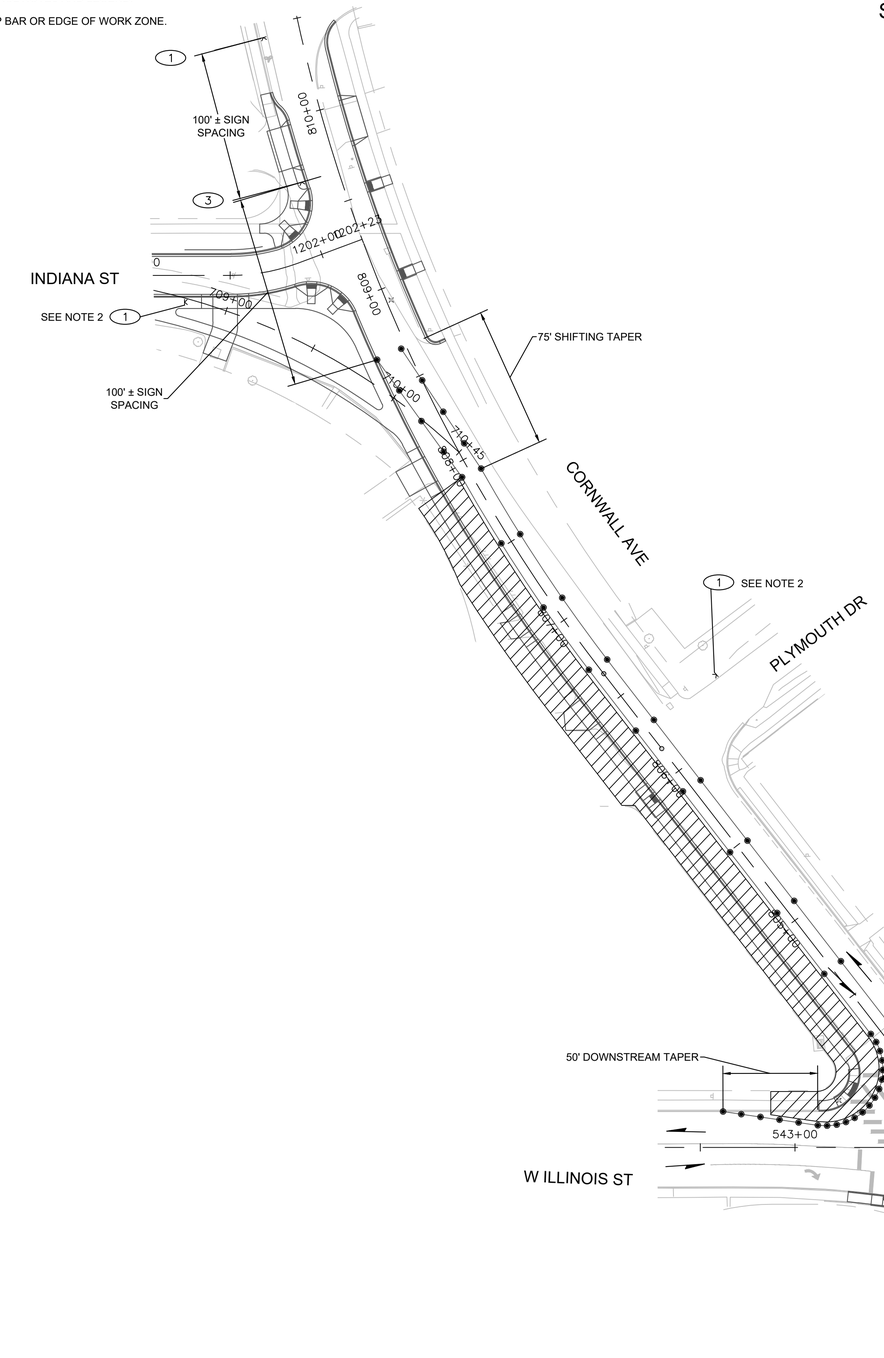
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-CORNWALL.DWG

NOTES

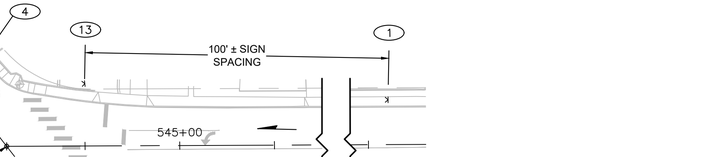
1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND



1	3	4	13
W20-1	W1-4L	W1-4R	W21-5

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TC07

Date	No	Revision	By
	4		
	3		
	2		
	1		

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTOL PLAN - CORNWALL C

SHEET 96 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 1:24pm - jake \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-cornwall.dwg Layout: 6A

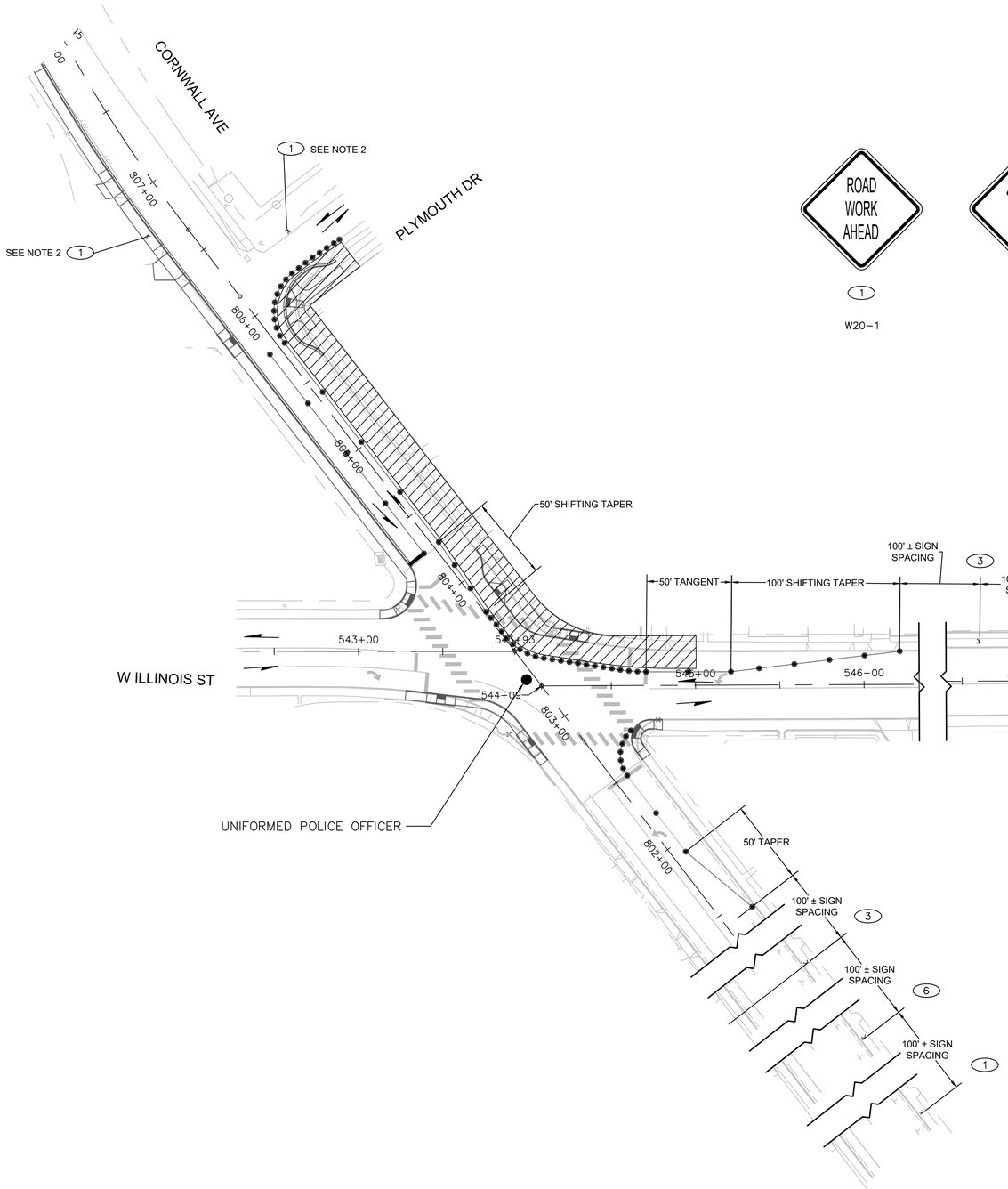
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-CORNWALL.DWG

NOTES

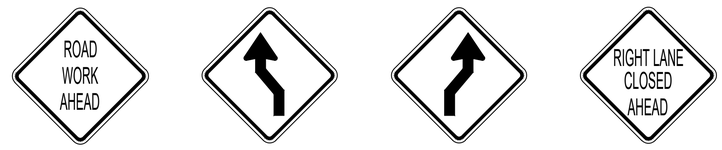
1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



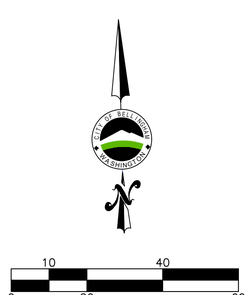
SIGN LEGEND



1	3	4	6
W20-1	W1-4L	W1-4R	W20-5R

90% SUBMITTAL

Call 811 two business days before you dig



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TC08

No	Date	Revision	By
4			
3			
2			
1			

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INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTOL PLAN - CORNWALL D

SHEET 97 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 4:24pm jakej \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-cornwall.dwg Layout: 6B

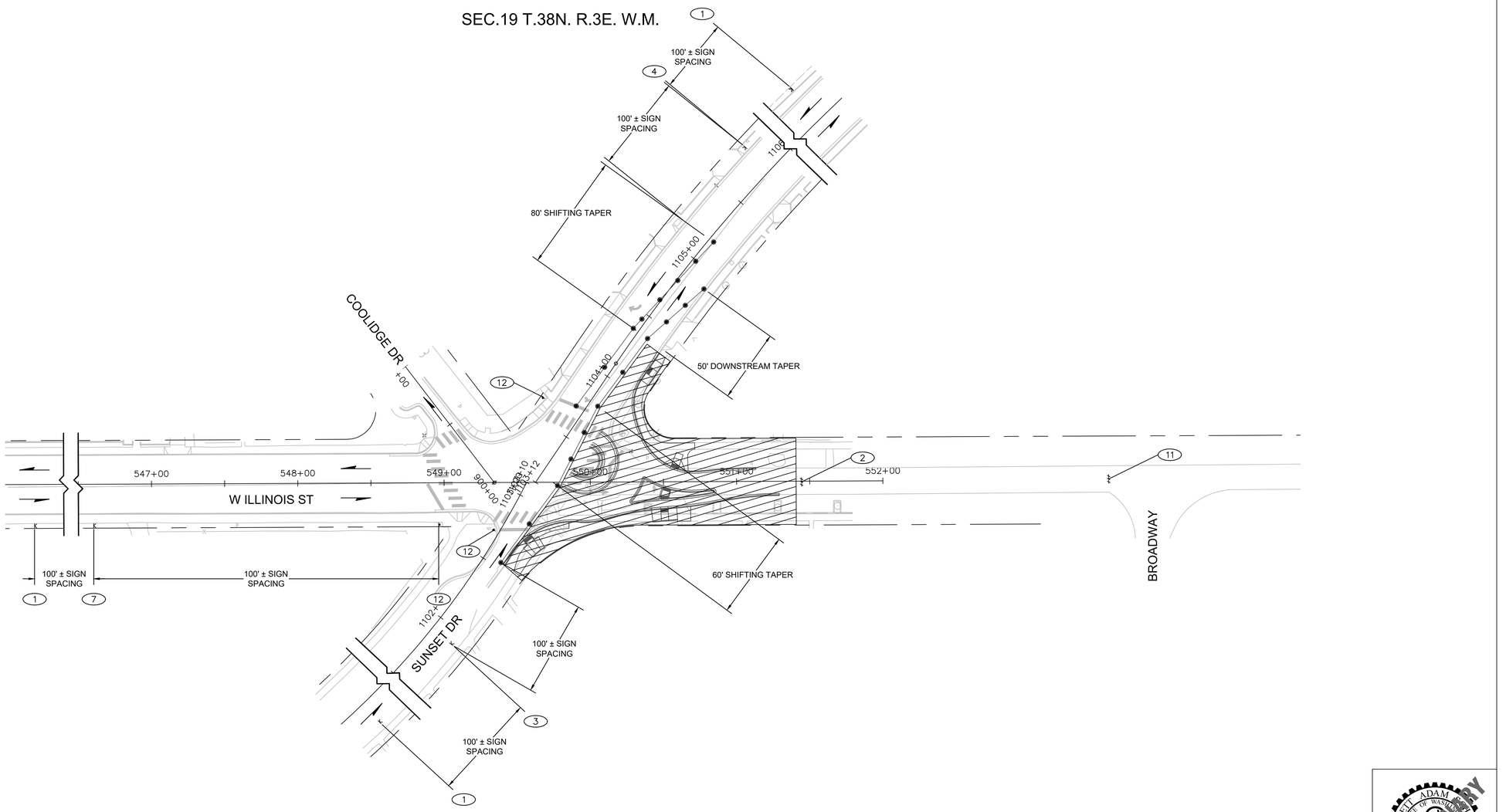
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-CORNWALL.DWG

NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1	2	3	4	7	11	12
W20-1	R11-2 48" X 30"	W1-4L	W1-4R	W20-901	R11-3 60" X 30"	R1-1 36" X 36"

90% SUBMITTAL

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TC09

No	Date	Revision	By
4			
3			
2			
1			

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INSPECTOR

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CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S

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SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - RAB A

SHEET 98 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360)778-7924

Plotted: 2023 Oct 02 - 08:30 \\srv-dfs-wa\projects\21\1.21273.00 - bellingham illinois multimodal es 0561\engineering\cad\plan sheets\21272-tg-mot-plan-rab.dwg Layout: TTC09

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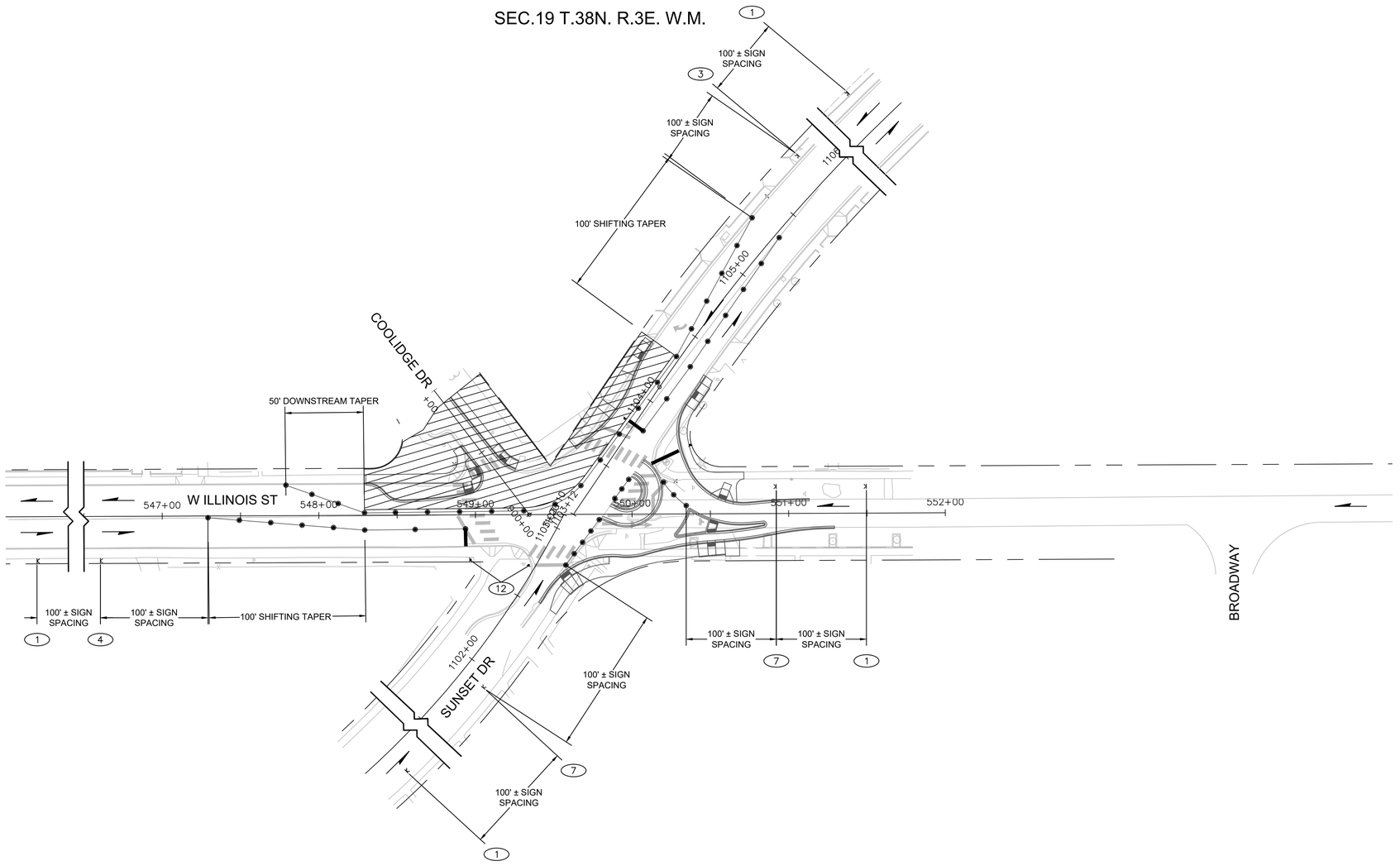
NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1	3	4	7	12
W20-1	W1-4L	W1-4R	W20-901	R1-1 36" X 36"

90% SUBMITTAL

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TC10

No	Date	Revision	By
4			
3			
2			
1			

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Horiz. AS NOTED
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DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - RAB B

SHEET 99 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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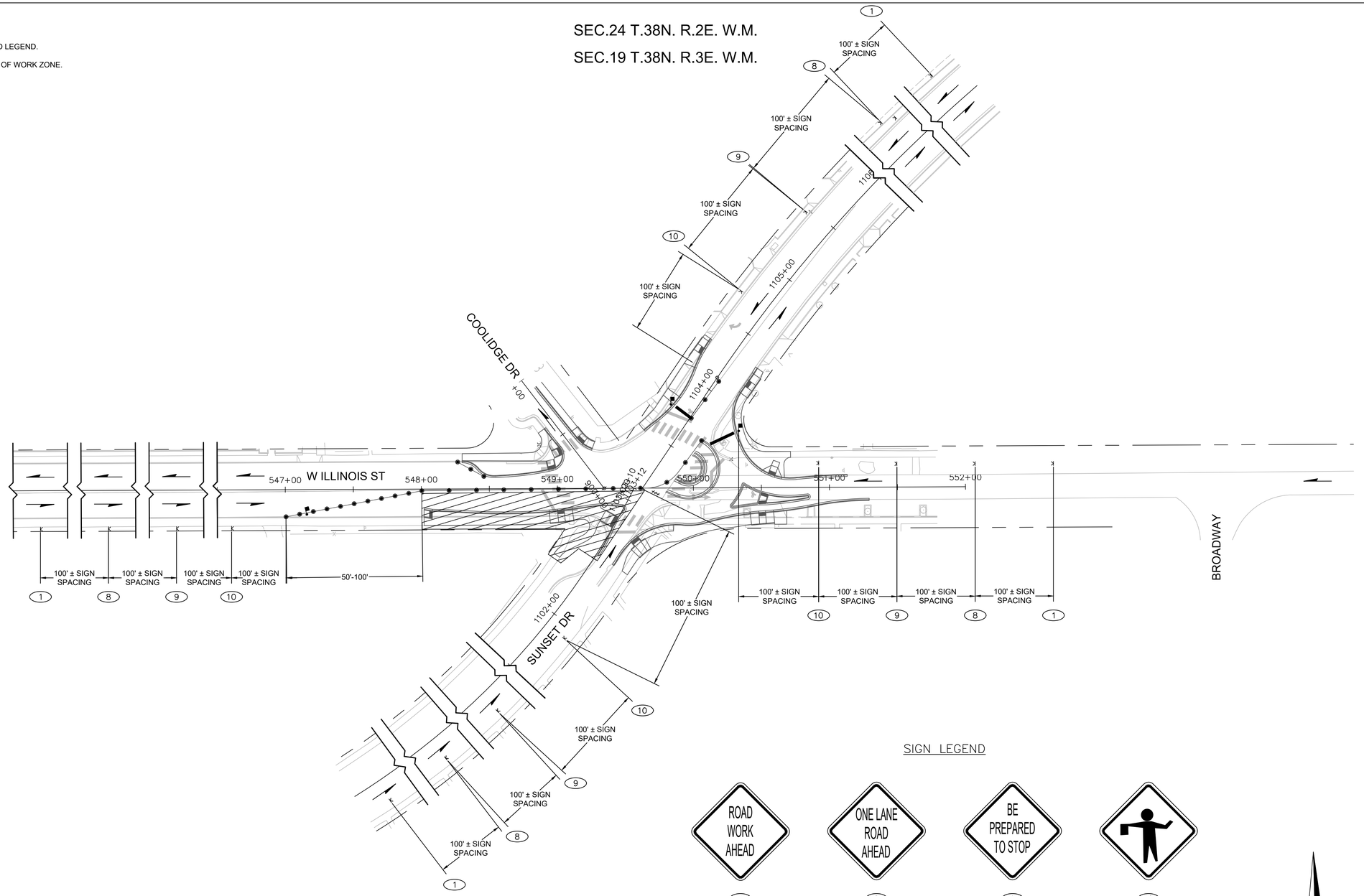
NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

W20-1 W20-4 W20-7B W20-7A

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TC11

Date	No	Revision	By
	4		
	3		
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	1		

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
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ENGINEERING DIVISION

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Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - RAB C

SHEET 100 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

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NOTES

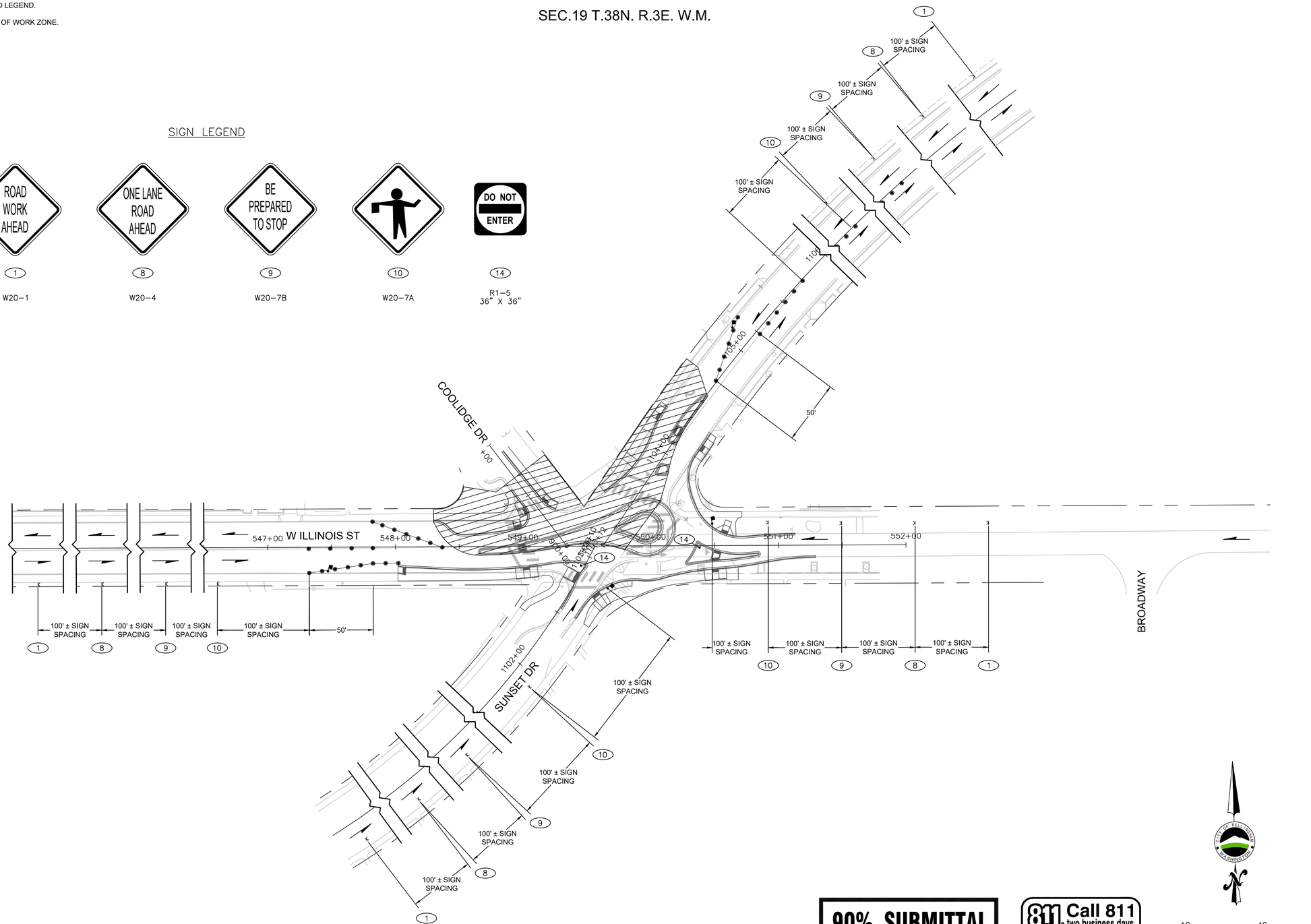
1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.

SIGN LEGEND

1	8	9	10	14
W20-1	W20-4	W20-7B	W20-7A	R1-5 36" X 36"



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TC12

Date	No	Revision	By
	4		
	3		
	2		
	1		

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DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS NOTED
Vert. AS NOTED

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0560 / ES-0561
Date 10/02/2023
Field Bk.

WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - RAB D

SHEET 101 OF 102

CONTACT PERSON: FREEMAN ANTHONY , PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 1:24pm - jake \\srv-dfs-wa\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\engineering\CAD\plan sheets\21272-TG-MOT-PLAN-RAB.dwg - Layout: TTC12

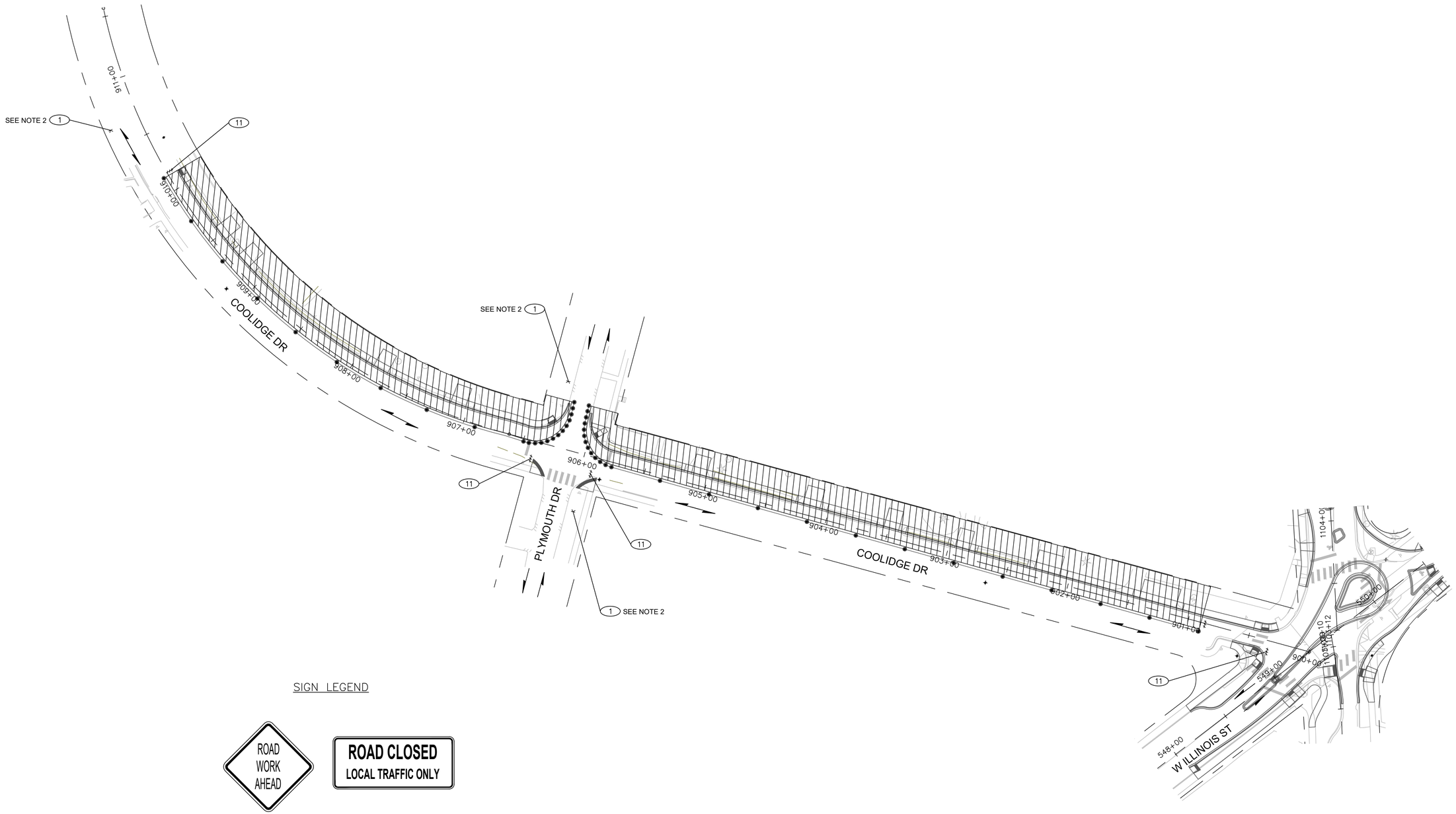
\\SRV-DFS-WA\PROJECTS\21\1.21273.00 - BELLINGHAM ILLINOIS MULTIMODAL ES 0561\ENGINEERING\CAD\PLAN SHEETS\21272-TG-MOT-PLAN-RAB.DWG

NOTES

1. SEE TC01 FOR TRAFFIC CONTROL NOTES AND LEGEND.
2. PLACE SIGN 100' ± FROM STOP BAR OR EDGE OF WORK ZONE.

SEC.24 T.38N. R.2E. W.M.

SEC.19 T.38N. R.3E. W.M.



SIGN LEGEND

1
W20-1

11
R11-3
60" X 30"

90% SUBMITTAL

Call 811 two business days before you dig

0 10 20 40 60

BRETT ADAM SCHICK
STATE OF WASHINGTON
22557
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

transpogroup
WHAT TRANSPORTATION CAN BE.

12131 113TH AVENUE NE, SUITE 203
KIRKLAND, WASHINGTON 98034

(TEL) 425 821-3665
(FAX) 425 825-8434

TC13

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER BAS
DESIGNED/DRAWN KBC/TN/JK/OS
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR C.M.A.S.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
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WEST ILLINOIS MULTIMODAL IMPROVEMENTS
PARKVIEW SAFE ROUTES TO SCHOOL
TRAFFIC CONTROL PLAN - COOLIDGE

SHEET 102 OF 102

CONTACT PERSON: FREEMAN ANTHONY, PROJECT ENGINEER AT (360) 778-7924

Feb 10, 2023 - 2:21pm \\srv-dfs-wa\projects\21\1.21273.00 - Bellingham Illinois multimodal es 0561\engineering\CAD\plan sheets\21272-TG-MOT-PLAN-VAL-IND-COOL.dwg Layout: TTC07

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