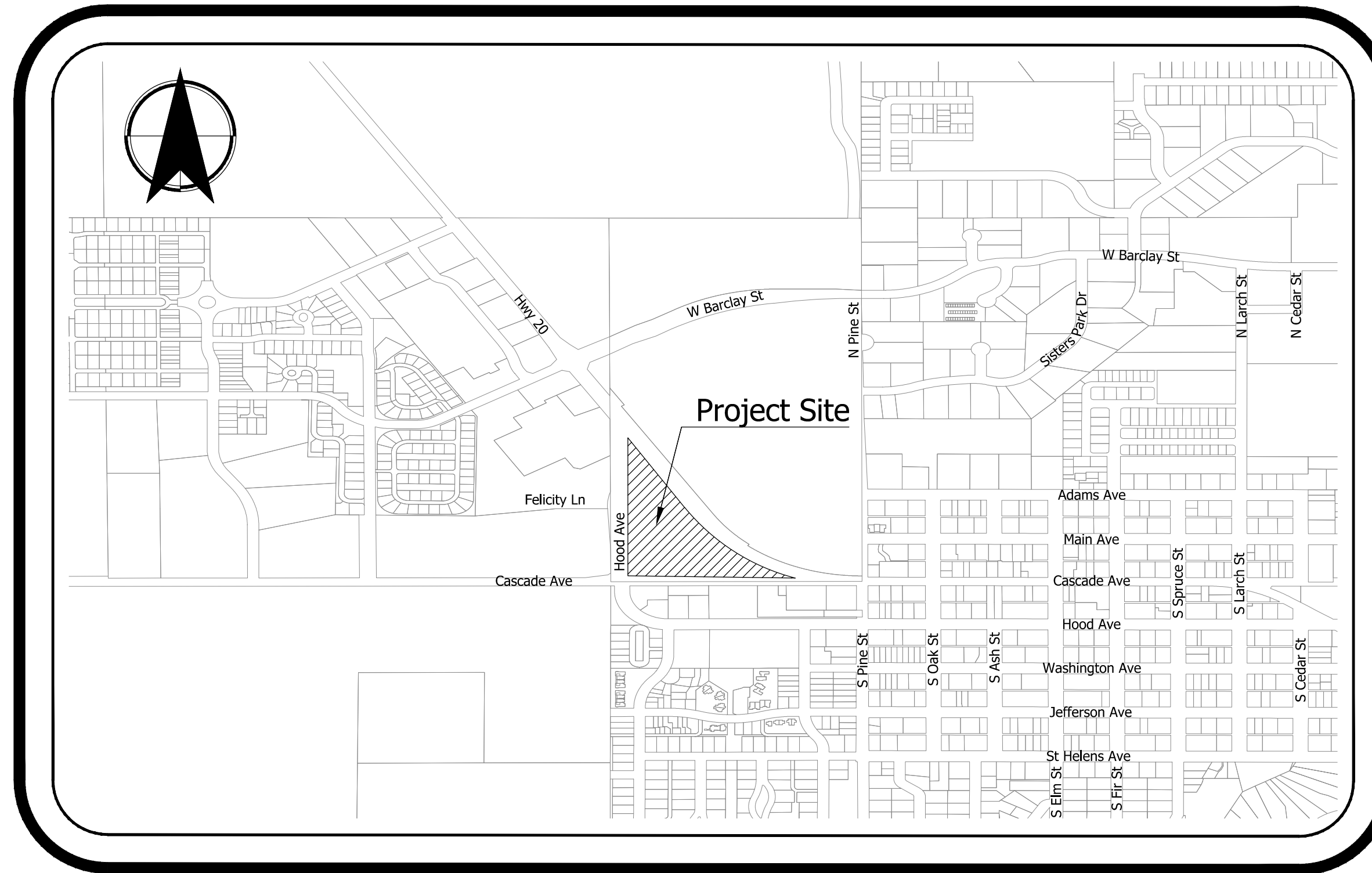
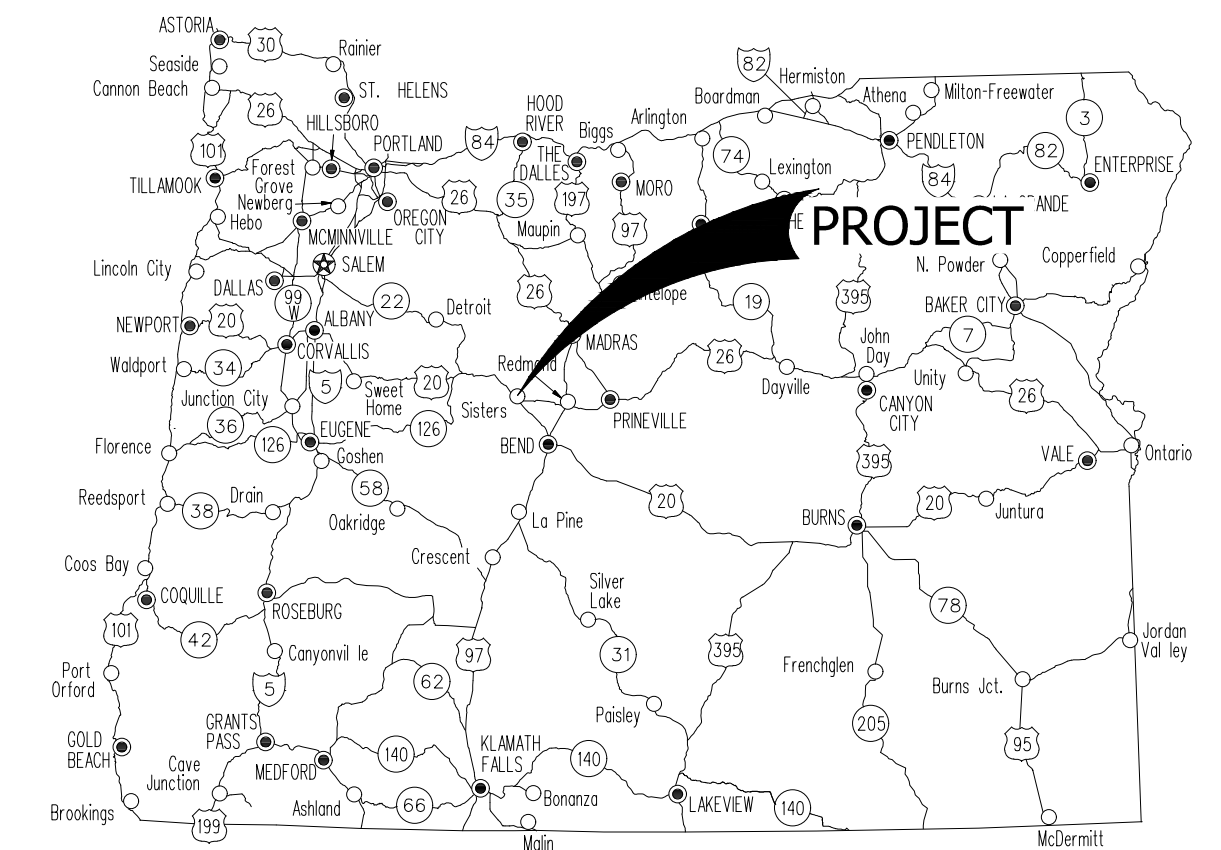


# East Portal Mobility Hub Improvements

GRADING, DRAINAGE, PAVING, SIGNING,  
STRIPING, AND ROADSIDE DEVELOPMENT

PREPARED FOR:  
**City of Sisters**

June 2024



VICINITY MAP

SCALE: NTS

**DATUMS:**

Oregon Coordinate Reference System  
Bend-Redmond-Prineville Zone  
Lambert Conformal Conic Projection (Single Parallel)  
North American Datum of 1983  
Standard Parallel & Grid Origin: 44° 40' 00" N  
Central Meridian: 121° 15' 00" W  
False Northing: 130 000.000 m  
False Easting: 80 000.000 m  
Standard Parallel Scale: 1.00 120 (Exact)

**UTILITY NOTIFICATION:**

ATTENTION: Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Note: The Telephone Number For The Oregon Utility Notification Center Is (503) 232-1987.)

This Design Complies With ORS 92.044 (7) In That No Utility Infrastructure Is Designed To Be Within One Foot Of A Survey Monument Location Shown On A Subdivision Or Partition Plat. No Design Modification Nor Final Field Location Change Shall Be Permitted If It Would Cause Any Utility Infrastructure To Be Placed Within The Prohibited Area.

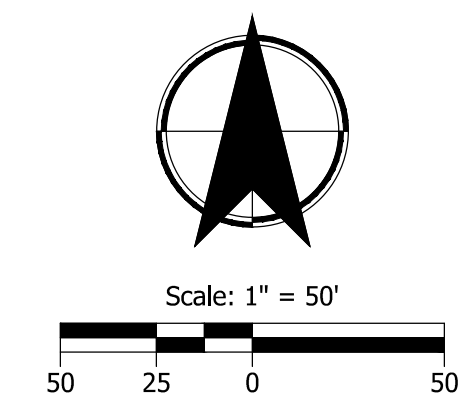
**PROJECT CONTACTS**

**OWNER**  
City of Sisters  
CONTACT: Paul Bertagna  
ADDRESS: 520 E Cascade Avenue  
Sisters, OR 97759  
PHONE: 541.323.5212  
EMAIL: pbertagna@ci.sisters.or.us

**ENGINEER**  
KITTELSON & ASSOCIATES, INC.  
CONTACT: Russell Montgomery, P.E.  
ADDRESS: 851 SW 6th Avenue, Suite 600  
Portland, OR 97204  
PHONE: 503.535.7511  
EMAIL: rmontgomery@kittelson.com

**SURVEYOR**  
BECON CIVIL ENGINEERING & LAND SURVEYING  
CONTACT: Erick Huffman, P.E., P.L.S  
ADDRESS: 549 SW Mill View Way, Suite 100  
Bend, OR 97702  
PHONE: 541.633.3140  
EMAIL: ehuffman@beconeng.com

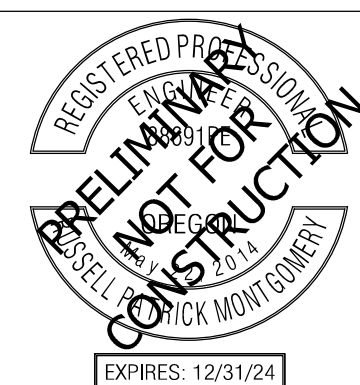
Sheet Index	
C0.0	Cover Sheet
C0.1	General Notes
C0.2	Abbreviations & Legend
C1.0	Existing Conditions & Demolition Plan
C2.0	Site Plan - Mobility Hub
C2.1	Site Plan - W. Hood Ave
C2.2	Site Plan - McKenzie Hwy
C2.3	Dimension Site Plan - Mobility Hub
C2.4	Dimension Site Plan - W. Hood Ave
C2.5	Dimension Site Plan - McKenzie Hwy
C3.0	Grading Plan - Mobility Hub
C3.1	Grading Plan - W. Hood Ave
C3.2	Grading Plan - McKenzie Hwy
C3.3	Grading Details
C4.0	Composite Utility Plan
C5.0	City of Sisters Standard Details
C5.1	ODOT Standard Details
C5.2	Details
EC-1	Erosion & Sediment Control Plan
EC-2	Erosion & Sediment Control Details
EC-3	Erosion & Sediment Control General Notes
SS1.0	Signing Plan - Mobility Hub
SS1.1	Signing Plan - W. Hood Ave
SS1.2	Signing Plan - McKenzie Hwy
SS2.0	Existing Sign Details
SS2.1	Proposed Sign Details
SS3.0	Striping Plan - Mobility Hub
SS3.1	Striping Plan - W. Hood Ave
SS3.2	Striping Plan - McKenzie Hwy
SS4.0	Striping Details
L1.0	Illumination Plan
L1.1	Illumination Plan
L1.2	Illumination Plan
L1.3	Illumination Plan
L1.4	Illumination Plan
L1.5	AGI Luminaire Calculations



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:


851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

SCALE AS SHOWN

DRAWING NAME

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SHEET

C0.0

**GENERAL NOTES**

- All construction and materials shall conform to these plans, the project specifications and the applicable requirements of the 2023 Oregon Standard Specifications, 2017 Oregon Plumbing Specialty Code and requirements of the City of Sisters.
- The completed installation shall conform to all applicable federal, state, and local codes, ordinances and regulations. All permits, licenses and inspections required by the governing authorities for the execution and completion of work shall be secured by the Contractor prior to commencing construction.
- Attention: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: The telephone number for the Oregon Utility Notification Center is (503) 232-1987). Excavators must notify all pertinent companies or agencies with underground utilities in the project area at least 48 business-day hours, but not more than 10 business days prior to commencing an excavation, so utilities may be accurately located.
- The Contractor shall pothole and verify locations, elevations, types and sizes of all existing utilities prior to constructing new piping far enough in advance to allow necessary adjustments in grade and shall notify Engineer of need to adjust piping installation accordingly. Potholing shall sufficiently precede laying of pipe to allow required elevation adjustments to be accomplished without rework. Elevation adjustments shall be expected and are incidental to the work. Deflect pipe as required and within manufacturer's tolerances to avoid existing utilities and complete tie-ins.
- The location of existing underground utilities shown on the plans are for information only and are not guaranteed to be complete or accurate. Contractor shall verify elevations, pipe size, and material types of all underground utilities prior to commencing with construction and shall bring any discrepancies to the attention of the Engineer, 72 hours prior to start of construction to prevent grade and alignment conflicts.
- The Engineer or owner is not responsible for the safety of the Contractor or his crew. All OSHA regulations shall be strictly adhered to in the performance of the work. Contractor to notify City 72 hours prior to cutting any waterlines.
- Temporary and permanent erosion control measures shall be implemented. The Contractor shall adhere to the requirements of the City of Sisters for minimum erosion control measures. The ESC facilities shown in these plans are the minimum requirements for anticipated site conditions. During the construction period, ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment laden water do not leave the site.
- The Contractor is responsible for maintaining all roadways, keeping them clean and free of construction materials and debris, and providing dust control as required.
- Contractor shall maintain all driveways, utilities and services at all times during construction, unless otherwise approved by the City of Sisters.
- The Contractor shall be responsible for coordinating and scheduling all work with the City of Sisters.
- Notify the City of Sisters's inspector 72 hours before starting work. A preconstruction meeting with the City of Sisters and the Contractor's representative shall be required.
- Protect freshly poured concrete curbs and sidewalk from vandalism or other damage for a minimum of twenty-four (24) hours or until cured enough to support typical use, whichever is longer. Any curb or sidewalk damaged by vandalism or other causes shall be replaced at no cost to the City.

**MATERIAL NOTES**

- Materials shall be new. The use of manufacturer's names, models, and numbers is required and intended to establish style, quality, appearance, and usefulness. Proposed substitutions will require written approval from the City of Newberg prior to installation.
- Storm sewer pipe shall be ASTM D3034 PVC (SDR35), ASTM F679 (PS46), AWWA C900, or AWWA C905 pipe conforming to the project specifications. Where pipe materials are specifically indicated in the plans, alternative materials will not be allowed.
- Public water mains shall be restrained ductile iron, Class 52, conforming to the project specifications and the latest revision of ANSI/AWWA C151/A21.51.
- Private water lines 2-inch diameter and smaller shall be Type K copper tubing conforming to the project specifications. When a corrosive potential condition is encountered and the copper service passes over or under an active cathodic protection system, the service shall be installed in a Schedule 40 PVC conduit for a distance of 10-feet on each side of the active system. All conduit placements must be provided with as-built records.
- Concrete for curbs, sidewalk and driveways shall have a minimum compressive strength of 3,300 psi at 28 days.

**CONSTRUCTION NOTES**

**DEMOLITION**

- The Contractor shall be responsible for demolition and disposal of existing AC, curbs, sidewalks and other site elements within the site area to allow for execution of work.
- Except for materials indicated to be stockpiled or to remain the property of the City of Sisters, cleared materials shall become Contractor's property, removed from the site, and disposed of properly.
- Items indicated to be salvaged shall be carefully removed and delivered or stored at the project site as directed by the City of Sisters.
- All landscaping, pavement, curbs and sidewalks, beyond the identified site area, damaged during the construction shall be replaced to their original condition or better at no additional cost to the City.
- Concrete sidewalks shown for demolition shall be removed to the nearest existing construction joint.
- Sawcut straight matchlines to create a butt joint between the existing and new pavement. All cuts through asphalt or concrete shall be vertical sawcuts before asphalt or concrete is restored.

**UTILITIES**

- Adjust all incidental structures, manholes, valve boxes, catch basins, frames and covers, et cetera to finished grade.
- Contractor shall adjust all existing and/or new flexible utilities (water, gas, TV, telephone, electric, et cetera) to clear any existing or new gravity drain utilities (storm drain, sanitary sewer, et cetera) if conflict occurs.
- Contractor shall coordinate with private utility companies for the installation or relocation of gas, electrical, power and telephone service as necessary to construct the project.
- The City of Sisters shall inspect and approve any subgrade for utility improvements before backfilling is allowed. Contractor shall verify and record measurements of exact location and depth before backfilling improvements and submit documentation to the City of Sisters.

**SIDEWALK RAMP GENERAL NOTES**

- Contractor shall be responsible for meeting all Americans with Disabilities (ADA) requirements as defined by the Public Rights-of-Way Accessibility Guidelines (PROWAG). Contractor shall take all necessary field measurements and otherwise verify all dimensions to meet ADA requirements. Should any error or inconsistency exist, the Contractor shall not proceed with the work affected until reported to the Engineer for clarification or correction.
- Complete sidewalk construction prior to paving AC wearing course.
- The maximum closure time for any single curb ramp shall be one week. Submit traffic control plan and pedestrian detour plan for ramp closures. Plan shall include but is not limited to work area protection, sidewalk closures and detours.
- Formwork for ADA ramps must be inspected prior to pouring concrete. Notify Engineer a minimum of 24 hours prior to forms being ready to schedule pre pour inspection.

**TRAFFIC CONTROL NOTES**


- Traffic control/detour plans shall be prepared by the contractor. The initial traffic control plan must be approved by the City prior to the pre-construction conference.
- The Contractor shall provide temporary protection and direction of traffic in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), Oregon Department of Transportation (ODOT) standard drawings, Oregon Standard Specifications for Construction (OSSC), and contract Special Provisions.
- Use temporary pavement markers, barriers, barricades, and signs as required to safely detour pedestrian and vehicular traffic around construction. Label type and location for all items on traffic control plans.
- Appropriate methods of pedestrian and vehicular traffic control, including flaggers, shall be employed by the Contractor to the extent deemed necessary by the traffic control supervisor and as approved by the City and the Engineer to protect workers or third parties and safely accommodate traffic through the work zone.
- The Contractor shall coordinate access to driveways with property owners. Access to roadway approaches within the project limits shall be maintained at all times. Traffic plates shall be used, and secured in a manner acceptable to the City, across all trenches blocking driveways to provide access at all times. At no time shall Contractors detain or delay emergency vehicles.
- The Contractor shall coordinate access for services including, but not limited to, mail delivery, trash pickup, school transportation, and any other special transportation services that exist within the project area.
- Existing signs that conflict with construction signing shall be covered or removed during construction and replaced after construction.
- Grade changes within the traveled lane or a grade change of more than 1-inch will require temporary hot mix asphalt concrete ramp with paper or sand joints as needed.
- The Contractor shall provide safe, stable, and accessible access to all driveway and pedestrian paths connecting to front doors at all times. Temporary interruptions in access shall be coordinated by the Contractor with the property owner or occupant as required.
- Cold plane pavement removal shall be completed on the same shift as the permanent asphalt pavement wearing course. The wearing course must be completed on cold planed streets prior to re-opening the roadway to traffic.

REVISIONS			
REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:



**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**General Notes**

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EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	<b>C0.1</b>

**ABBREVIATIONS**

Δ	Delta Angle	Min.	Minimum
AC	Asphalt Concrete	MJ	Mechanical Joint
ACP	Asphalt Concrete Pavement	NO.	Number
AD	Area Drain	NOM.	Nominal
ADA	American Disabilities Act	N.T.S./NTS	Not to Scale
BC	Bottom Face of Curb	ODOT	Oregon Department of Transportation
BVC	Begin Vertical Curve	OSSC	Oregon Standard Specifications for Construction
BW	Back of Sidewalk	PC	Point of Curvature
CB	Catch Basin	PCC	Point of Compound Curvature
CI	Curb Inlet	PE	Plain End
COMP.	Composite	PGE	Portland General Electric
CoS	City of Sisters	PI	Point of Inflection
DI	Ductile Iron	PSUE	Public Slope & Utility Easement
DWG.	Drawing	PRC	Point of Reverse Curvature
Elec	Electrical	PSDUE	Public Slope, Drainage, & Utility Easement
e	Curb Exposure	PSE	Public Slope Easement
EA	Each	PT	Point of Tangency
EG	Existing Grade	PUE	Public Utility Easement
EAC	Edge of Asphalt Concrete	PVC	Poly Vinyl Chloride
ELEV	Elevation	PVI	Point of Vertical Inflection
EVC	End Vertical Curve	R	Radius
Extg.	Existing	RCP	Reinforced Concrete Pipe
F.L./FL	Flow Line	R.O.W.	Right-of-Way
FLG	Flange	Rt.	Right
FG	Finished Grade	S	Slope
FT	Feet	Sta.	Station
F.T.	Flat Top	SD	Storm Drain
G	Gas	Sht.	Sheet
GV	Gas Valve	T	Telecom
IE	Invert Elevation	TC	Top Face of Curb
Len	Length	THKN.	Thickness
LF	Linear Feet	TRK	Truck
Lt.	Left	VC	Vertical Curve
LVC	Length of Vertical Curve	W	Water
Max.	Maximum	WQ	Water Quality
MH	Manhole	WQMH	Water Quality Manhole

**UTILITIES & SERVICES**

**SEWER & ENVIRONMENTAL**

Agency: City of Sisters  
 Contact: Public Works Department  
 Phone: 541.323.5212

**WATER**

Agency: City of Sisters  
 Contact: Public Works Department  
 Phone: 541.323.5212

**TRANSPORTATION**

Agency: City of Sisters  
 Contact: Public Works Department  
 Phone: 541.323.5212

**FIRE**

Agency: Sisters-Camp Sherman Fire District  
 Contact: Station 701  
 Phone: 541.549.0771

**POLICE**

Agency: Deschutes County Police Department  
 Contact: Emergency / Non-Emergency  
 Phone: 911 / 541.693.6911

**POWER**

Agency: Central Electric Cooperative  
 Contact: Dan McDevitt  
 Phone: 541.312.3549

**TELECOMMUNICATIONS**

Agency: TDS  
 Contact: Chester Parker  
 Phone: 541.480.8963

Agency: CenturyLink  
 Contact: Brandon Aman  
 Email: baman@terratechllc.net

**CITY OF SISTERS STANDARD DETAILS**

- 1-1 - Standard Trenches
- 2-7 - Typical Bulbout Swale Detail
- 2-11 - Standard PCC Curb and Gutter Sections
- 2-12 - Expansion & Contraction Joint Detail
- 2-20 - Typical Stop and Street Sign Combination
- 2-21 - Typical Street Sign Anchor
- 3-7 - Service Lateral

**ODOT STANDARD DRAWINGS**

- RD700 - Curbs
- RD902 - Detectable Warning Surface Details
- RD904 - Detectable Warning Surface Placement for Curb Ramps
- RD905 - Detectable Warning Surface Placement for Directional Curbs
- RD910 - Perpendicular Curb Ramp
- RD912 - Perpendicular Curb Ramp
- RD920 - Parallel Curb Ramp
- RD936 - Combination Curb Ramp
- RD960 - Unique Curb Ramp
- RD1000 - Construction Entrances
- RD1010 - Inlet Protection Type 2, 3, 6, 7, 10 & 11
- RD1040 - Sediment Fence
- RD1070 - Concrete Truck Wash Out
- TM500 - Pavement Marking Standard Detail Blocks
- TM501 - Pavement Marking Standard Detail Blocks
- TM502 - Pavement Marking Standard Detail Blocks
- TM503 - Pavement Marking Standard Detail Blocks
- TM671 - 3 Second Wind Gust Speed Map
- TM676 - Sign Attachments
- TM681 - Perforated Steel Square Tube (PSST) Sign Support Installation
- TM687 - Perforated Steel Square Tube (PSST) Anchor Foundation
- TM688 - Perforated Steel Square Tube (PSST) Slip Base Foundation

**EXISTING LEGEND**

	Right of Way Line		Sanitary Sewer Manhole
	Property Line		Sanitary Sewer Cleanout
	Road Crown Line		Storm Drain Manhole
	Curb Line		Storm Drain Culvert End
	Edge of Asphalt Line		Storm Drain Curb Inlet
	Minor Contour		Water Valve
	Major Contour		Fire Hydrant
	Top of Slope Line		Water Meter
	Toe of Slope Line		Irrigation Valve
	Building Line		Sign
	Cable TV Line		Bollard
	Sanitary Sewer Line		Electrical Junction Box (Riser)
	Storm Drain Line		Power Meter
	Waterline		Bollard Light
	Underground Power Line		Communications Junction Box (Riser)
	Remove/Abandon Existing Pipe		Survey Control Point
	Trees		Survey Monument (Found)
	Tree to be Removed		Sidewalk/Concrete Surface
			Grave Surface/Path

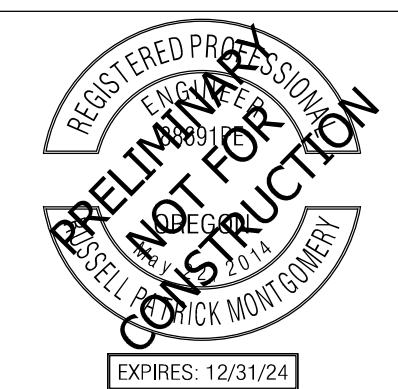
**PROPOSED LEGEND**

	Dedicated Right of Way Line		Sanitary Sewer Cleanout
	Edge of Asphalt Line		Electrical Junction Box
	Gravel Shoulder Line		Electrical Junction Box w/ PCC Apron
	Standard Curb Line		Reduced Pressure Backflow Device
	Edge of Walkway/Path Line		Site Lighting
	Sawcut Line		Bollard Light
	Sanitary Sewer Line		Bicycle Parking
	Water Line		Bench
	Underground Electrical Conduit		Stormwater Infiltration Basin
	Minor Contour		
	Major Contour		
	Grade Break Line		
	Surface Flow Line		
	Grading Daylight - Cut		
	Grading Daylight - Fill		
	Tree Protection Fence		
	Sidewalk/Concrete Surface		
	Vehicular Asphalt Paved Surface		
	Multi-Use Path Paved Surface		
	Topsoil Strippings/Landscape Area		

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Abbreviations & Legend**

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EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	C0.2

**DEMOLITION GENERAL NOTES**

1. THE CONTRACTOR SHALL BE REQUIRED TO VISIT SITE PRIOR TO PREBID MEETING TO FAMILIARIZE THEMSELVES WITH DEMOLITION, GRADING, ETC., AND IMPROVEMENTS TO REMAIN.
2. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY AND ALL ITEMS NOT OTHERWISE LISTED HEREIN THAT CONFLICT WITH THE CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE IF ANY ITEMS NOT SHOWN ON THE PLANS MUST BE REMOVED. FAILURE TO DO SO DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY AND COST FOR REMOVING ITEMS REQUIRED.
3. CONTRACTOR TO DISPOSE OF ALL DEBRIS AND EXCESS MATERIAL ACCORDING TO LOCAL REQUIREMENTS.
4. LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
5. PRIOR TO START OF CONSTRUCTION, CONTRACTOR IS TO NOTIFY UTILITY COMPANIES TO FIELD LOCATE EXISTING UTILITIES IN THE AREA.
6. DEMOLITION CONTRACTOR TO SUBMIT TRUCK ROUTE, SCHEDULE OF DEMOLITION, TRAFFIC CONTROL PLAN, METHOD OF DEMOLITION, AND DUST AND NOISE CONTROL MEASURES, AS REQUIRED, TO OBTAIN EXCAVATION PERMIT.
7. ALL DEMOLISHED ASPHALTIC CONCRETE AND PORTLAND CEMENT CONCRETE SHALL BE REMOVED FROM SITE. UNLESS DETERMINED ACCEPTABLE FOR REUSE BY THE GEOTECHNICAL ENGINEER, ALL RECYCLED FILL MUST BE FREE OF EXTRANEOUS REINFORCING MATERIAL, DEBRIS, OR OTHER DELETERIOUS MATERIAL.
8. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF ANY AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO FOLLOW THE DEQ, CITY OF SISTERS OR DESCHUTES COUNTY GUIDELINES.
9. CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL, SHRUBS, RUBBISH, AND MAN-MADE STRUCTURES INCLUDING, BUT NOT LIMITED TO, ASPHALTIC PAVED SURFACES, GRAVELED AREAS, ETC. WITHIN THE CLEARING LIMITS. THE ITEMS LISTED ABOVE SHALL BE DISPOSED OF OFF-SITE.
10. ALL BURIED STRUCTURES (I.E. TANKS, LEACH LINES, DRAIN TILE, AND PIPES) NOT DESIGNATED TO REMAIN ON THE SITE, SHALL BE REMOVED AND THE RESULTING EXCAVATIONS SHALL BE PROPERLY BACKFILLED AND COMPACTED PRIOR TO ANY GRADING OR FILLING OPERATIONS. THIS IS TO INCLUDE STUMPS AND ROOT BALLS OF TREES TO BE REMOVED FROM THE SITE.
11. ALL UNSUITABLE MATERIAL (SOIL & VEGETATION) REMOVED DURING THE CLEARING, GRUBBING, AND STRIPPING OPERATIONS THAT WILL NOT BE REUSED IN LANDSCAPE AREAS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A SUITABLE LOCATION ACCORDING TO LOCAL REQUIREMENTS.
12. ALL EXISTING REMAINING UTILITIES AND REMAINING IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY AND THE ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT PRIOR DAMAGES.
13. ANY DEMOLITION WITHIN A PUBLIC UTILITY EASEMENT IS TO BE COORDINATED WITH UTILITY PRIOR TO BEGINNING DEMOLITION.
14. IF ASBESTOS IS FOUND DURING DEMOLITION, ALL ASBESTOS SHALL BE REMOVED FROM THE SITE ACCORDING TO THE FOLLOWING REQUIREMENTS. ASBESTOS REMOVAL SHALL BE PERFORMED BY A QUALIFIED ASBESTOS REMOVAL CONTRACTOR AND SHALL BE REMOVED TO A CERTIFIED SITE FOR ASBESTOS WASTE. ALL NECESSARY PERMITS FOR THE REMOVAL SHALL BE OBTAINED BY THE CONTRACTOR OR THE ABATEMENT CONTRACTOR PRIOR TO DISTURBING ANY ASBESTOS MATERIAL.

**WILDLIFE NOTE**

PROTECTION OF WILDLIFE AND WILDLIFE HABITAT - COMPLY WITH THE LAWS OF THE OREGON DEPARTMENT OF FISH AND WILDLIFE AND U.S. FISH AND WILDLIFE SERVICE. CONDUCT OPERATIONS TO AVOID ANY HAZARDS TO THE SAFETY AND PROPAGATION OF WILDLIFE.

MIGRATORY BIRDS - COMPLY WITH THE MIGRATORY BIRD TREATY ACT (16 U.S.C. 703-712) WHICH PROTECTS MOST SPECIES OF BIRDS IN OREGON AND PROHIBITS THE REMOVAL OF NESTS CONTAINING EGGS AND DEPENDENT YOUNG. MIGRATORY BIRDS INCLUDE MOST BIRDS IN OREGON, EXCEPT PIGEONS, HOUSE SPARROWS, AND STARLINGS. EXCEPT WHERE ALLOWED BY THE CONTRACT AND BY PERMIT, DO NOT DISTURB A MIGRATORY BIRD NEST CONTAINING EGGS OR DEPENDENT YOUNG, OR THE SURFACE THE NEST IS BUILT ON. IF MIGRATORY BIRD NESTS ARE ENCOUNTERED THAT CONTAIN EGGS OR DEPENDENT YOUNG, STOP ALL ACTIONS THAT MAY DISRUPT THE NEST AND CONTACT THE ENGINEER. DO NOT RESUME WORK, THAT MAY DISRUPT NESTING, UNTIL APPROVED BY THE ENGINEER.

**UTILITY STATEMENT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

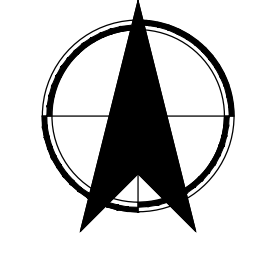
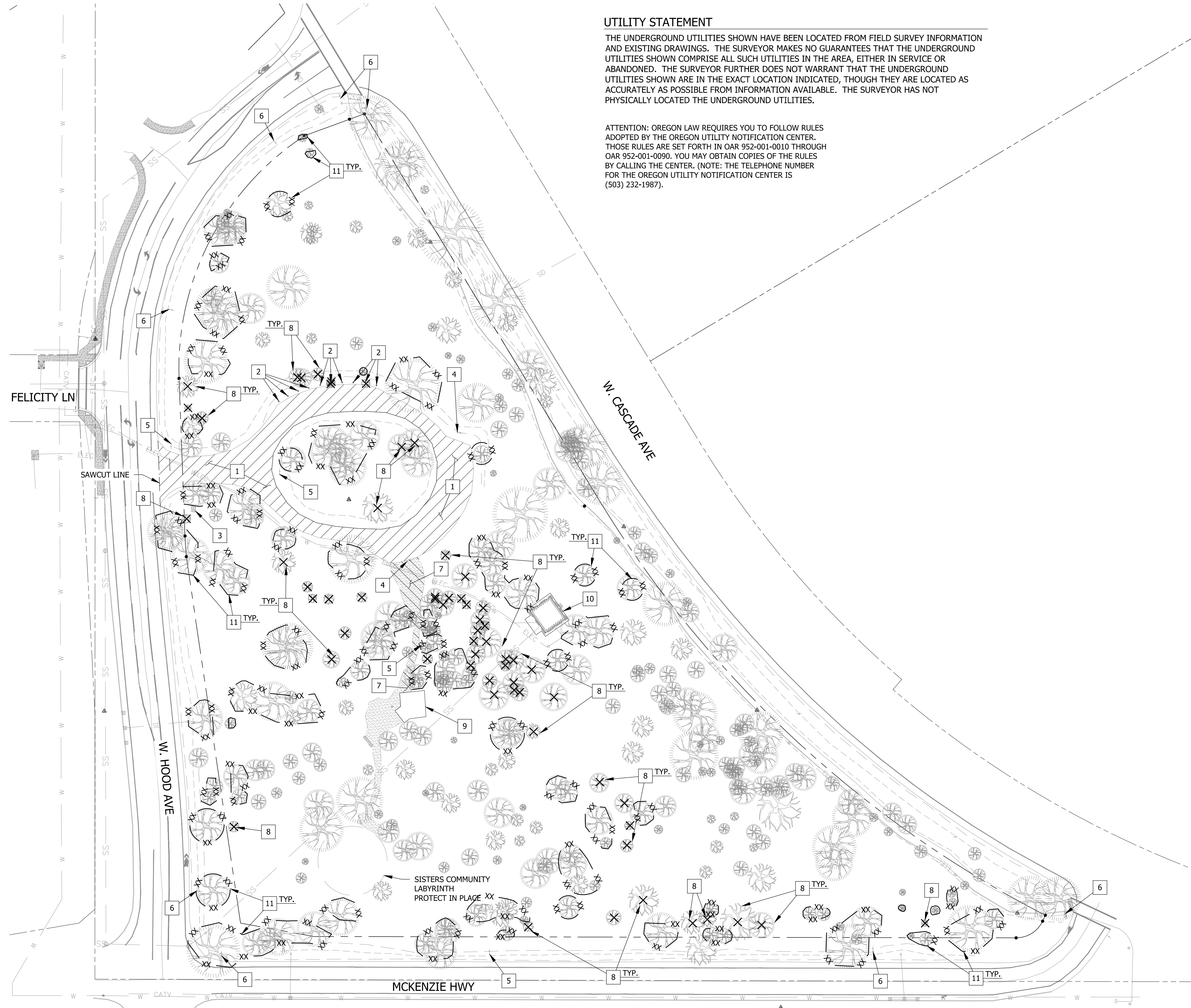
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).

**DEMOLITION NOTES**

- 1 DEMO AND REMOVE EXISTING ASPHALT PAVEMENT.
- 2 REMOVE AND SALVAGE EXISTING BOLLARD TO CITY OF SISTERS PUBLIC WORKS.
- 3 PROTECT IN PLACE EXISTING MONUMENT SIGN.
- 4 REMOVE AND SALVAGE EXISTING SIGN TO CITY OF SISTERS PUBLIC WORKS.
- 5 EXISTING SIGN TO BE RELOCATED, SEE SIGNING AND STRIPING PLANS.
- 6 PROTECT IN PLACE EXISTING SIGN.
- 7 DEMO AND REMOVE EXISTING COMPACTED GRAVEL SURFACE AS NECESSARY FOR PAVEMENT SECTIONS, STRUCTURAL MATERIALS, AND LANDSCAPING.
- 8 REMOVE EXISTING TREE, INCLUDING ROOTS.
- 9 PROTECT IN PLACE EXISTING KIOSK BUILDING.
- 10 PROTECT IN PLACE EXISTING RESTROOM BUILDING AND UTILITY SERVICES.
- 11 INSTALL TREE PROTECTION FENCING, SEE EROSION AND SEDIMENT CONTROL PLAN SHEET EC-1.

**CLEARING AND GRUBBING NOTE**

ANTICIPATED SITE STRIPPING DEPTH IS 12". FINAL DEPTH TO BE DETERMINED IN THE FIELD AND APPROVED BY THE INSPECTOR.

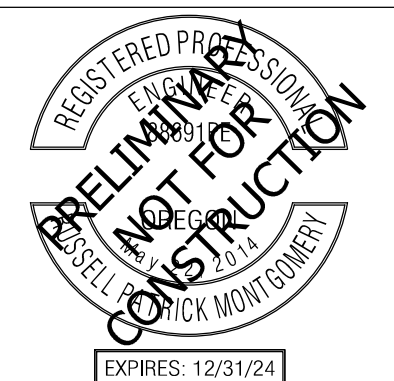


Scale: 1" = 50'  
50 25 0 50

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:


**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

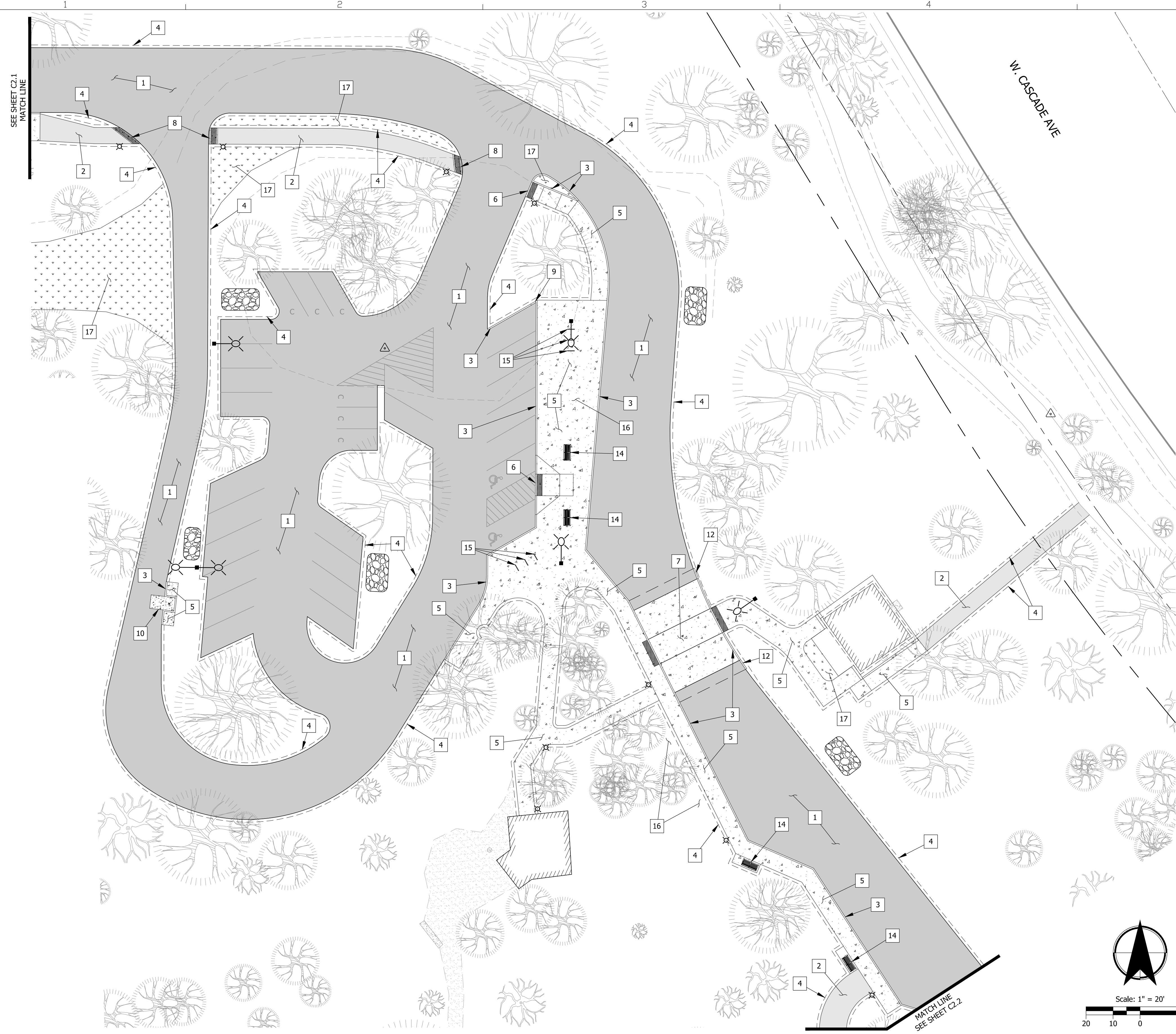


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

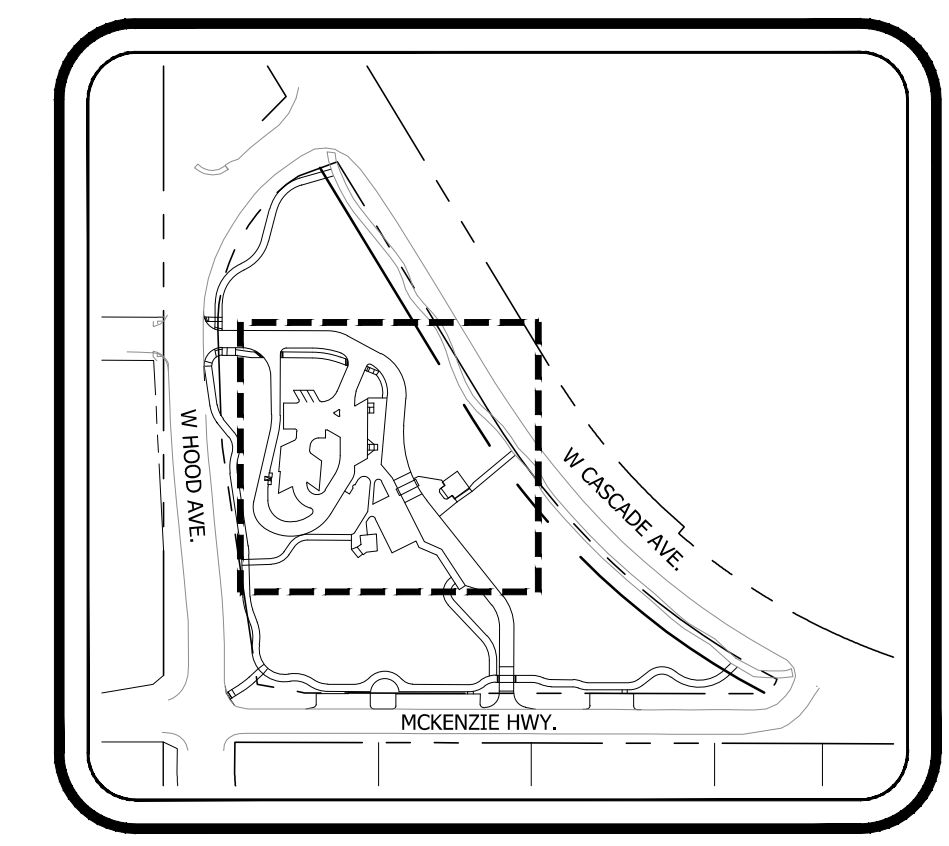


**Existing Conditions & Demolition Plan**  
EAST PORTAL MOBILITY HUB IMPROVEMENTS

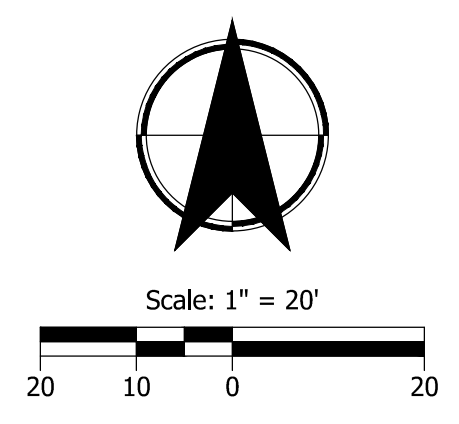
SCALE	AS SHOWN
DRAWING NAME	
SHEET	C1.0



- CONSTRUCTION NOTES**
- 1 CONSTRUCT VEHICLE ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET C5.2.
  - 2 CONSTRUCT MULTI-USE PATH ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET C5.2.
  - 3 CONSTRUCT STANDARD PCC CURB, TYPE II PER CITY OF SISTERS STANDARD DETAIL 2-11 ON SHEET C5.0.
  - 4 CONSTRUCT COMPACTED GRAVEL SHOULDER PER DETAIL 2 ON SHEET C5.2.
  - 5 CONSTRUCT PCC SIDEWALK SECTION, WIDTH PER PLAN, PER CITY OF SISTERS MODIFIED DETAIL 2-12 ON SHEET C5.0.
  - 6 CONSTRUCT ACCESSIBLE CURB RAMP WITH BROOM FINISH, INSTALL TRUNCATED DOMES DETECTABLE WARNING 2' x FULL RAMP WIDTH, SEE GRADING DETAILS ON SHEET C3.3 FOR ADDITIONAL INFORMATION.
  - 7 CONSTRUCT 4,000 PSI CONCRETE RAISED PEDESTRIAN CROSSING WITH IMPACT SLABS PER DETAIL 5 ON SHEET C5.2, INSTALL TRUNCATED DOMES DETECTABLE WARNING 2' x FULL CROSSWALK WIDTH, SEE GRADING DETAIL 5 ON SHEET C3.3 FOR ADDITIONAL INFORMATION.
  - 8 CONSTRUCT PCC SIDEWALK SECTION, 3' x FULL PATH WIDTH AND WET-SET TRUNCATED DOMES DETECTABLE WARNING 2' x FULL PATH WIDTH, SEE DETAIL 3 ON SHEET C5.2.
  - 9 CONSTRUCT 2' WIDE CURB CUT FOR STORMWATER TO DRAIN TO LANDSCAPE AREA.
  - 10 CONSTRUCT PCC RV DUMP STATION PER DETAIL 6 ON SHEET C5.2, PAY STATION, LOCKING CAP, AND WATER TOWER TO BE INSTALLED BY OTHERS, SEE COMPOSITE UTILITY PLAN SHEET C4.0 AND GRADING DETAIL 4 ON SHEET C3.3 FOR REFERENCE.
  - 12 CONSTRUCT CURB TRANSITION FROM 6" TO 0" EXPOSURE, SEE CURB ENDING DETAIL ON ODOT STD. DWG. RD700 ON SHEET C5.1.
  - 14 INSTALL 6' GRETCHEN BENCH WITH LOOP ARMRESTS, MANUFACTURED BY LANDSCAPE FORMS, SURFACE MOUNTED, SEE DETAIL ON SHEET C5.2.
  - 15 INSTALL STAPLE BICYCLE RACK (INVERTED U), FLANGE SURFACE MOUNTED, 4' OFF CURB FACES AND/OR 2' OFF WALL OR OBSTRUCTION, SEE DETAIL ON SHEET C5.2.
  - 16 POTENTIAL BUS SHELTER AREA, TO BE INSTALLED BY OTHERS.
  - 17 LANDSCAPE AREA, INSTALL 12" MIN. STRIPPINGS TOPSOIL.



**KEY MAP**  
SCALE: NTS

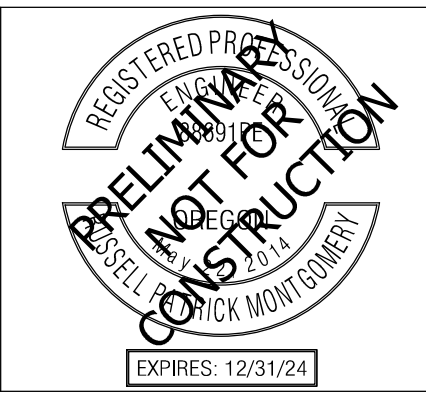


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

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PORTLAND, OR 97204  
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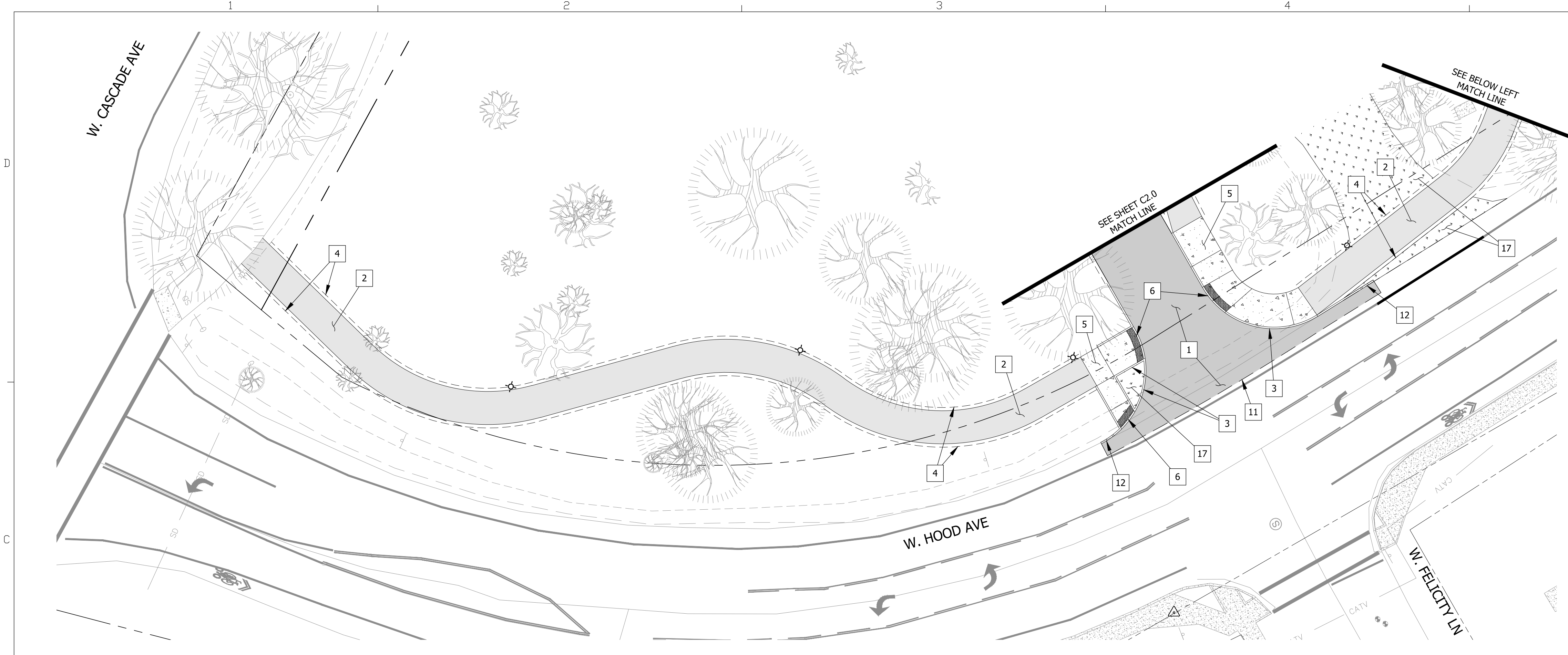
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DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



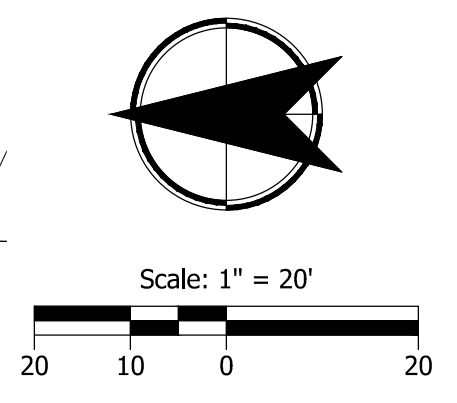
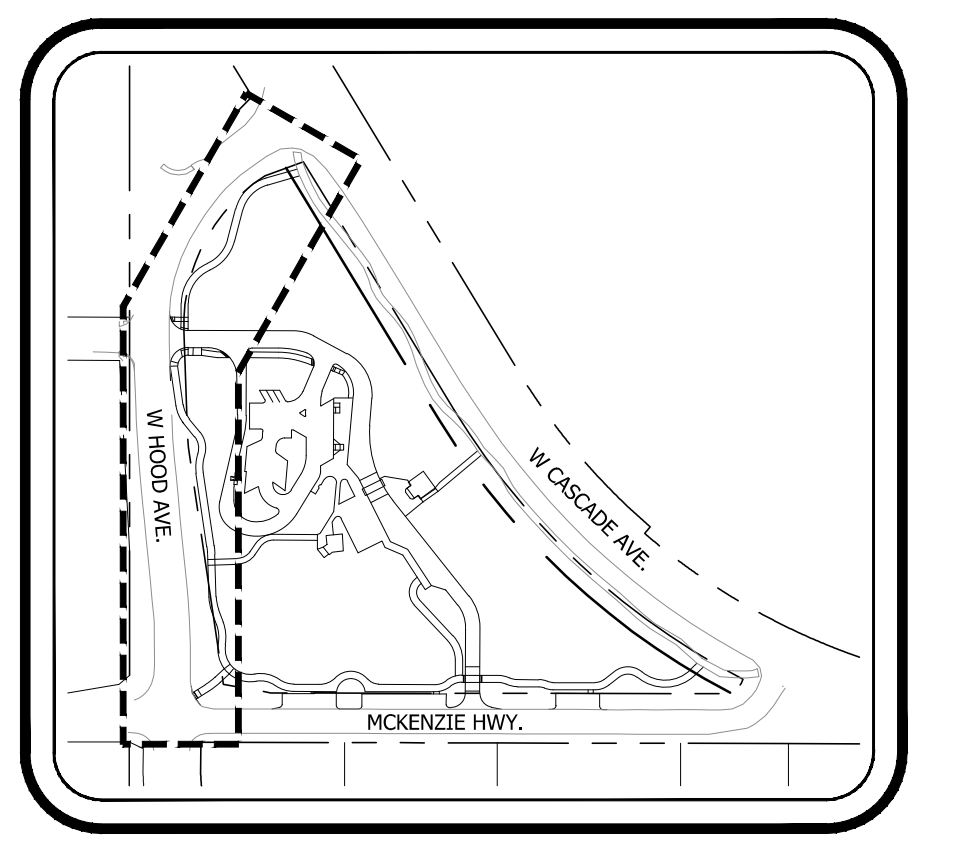
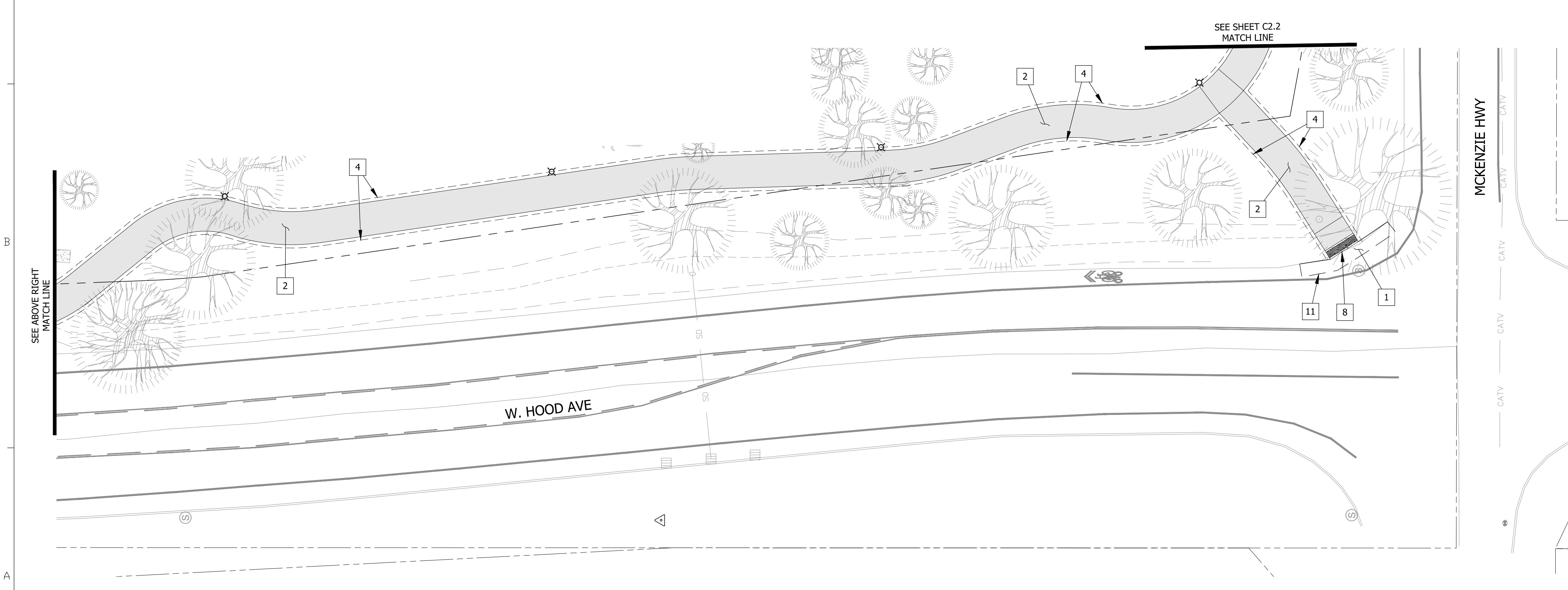
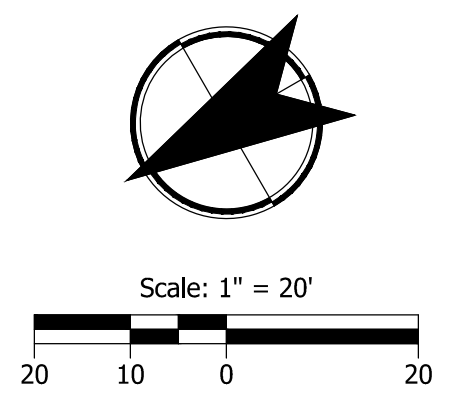
**Site Plan - Mobility Hub**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	C2.0



- CONSTRUCTION NOTES**
- 1 CONSTRUCT VEHICLE ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET C5.2.
  - 2 CONSTRUCT MULTI-USE PATH ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET C5.2.
  - 3 CONSTRUCT STANDARD PCC CURB, TYPE II PER CITY OF SISTERS STANDARD DETAIL 2-11 ON SHEET C5.0.
  - 4 CONSTRUCT COMPACTED GRAVEL SHOULDER PER DETAIL 2 ON SHEET C5.2.
  - 5 CONSTRUCT PCC SIDEWALK SECTION, WIDTH PER PLAN, PER CITY OF SISTERS MODIFIED DETAIL 2-12 ON SHEET C5.0.
  - 6 CONSTRUCT ACCESSIBLE CURB RAMP WITH BROOM FINISH, INSTALL TRUNCATED DOMES DETECTABLE WARNING 2' x FULL RAMP WIDTH, SEE GRADING DETAILS ON SHEET C3.3 FOR ADDITIONAL INFORMATION.
  - 8 CONSTRUCT PCC SIDEWALK SECTION, 3' x FULL PATH WIDTH AND WET-SET TRUNCATED DOMES DETECTABLE WARNING 2' x FULL PATH WIDTH, SEE DETAIL 3 ON SHEET C5.2.
  - 11 SAWCUT AND REMOVE EXISTING AC PAVEMENT. PROVIDE CLEAN EDGE FOR PAVEMENT REPLACEMENT JOINT.
  - 12 CONSTRUCT CURB TRANSITION FROM 6" TO 0" EXPOSURE, SEE CURB ENDING DETAIL ON ODOT STD. DWG. RD700 ON SHEET C5.1.
  - 17 LANDSCAPE AREA, INSTALL 12" MIN. STRIPPINGS TOPSOIL.

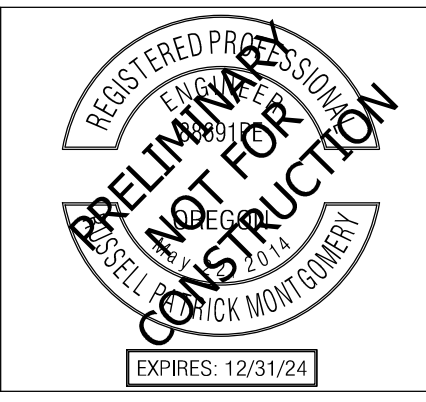


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



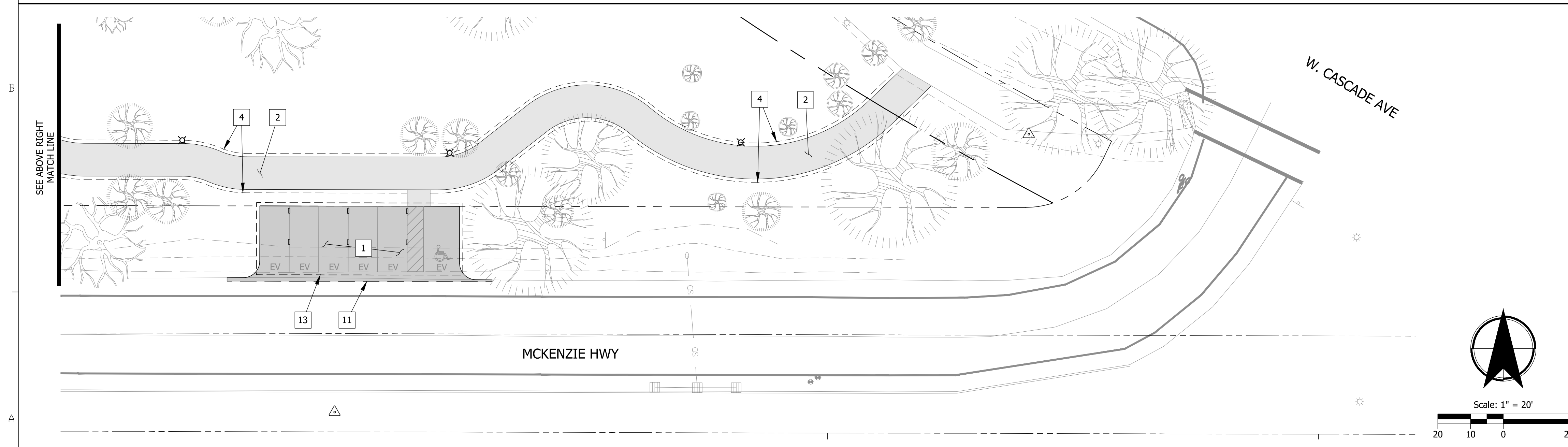
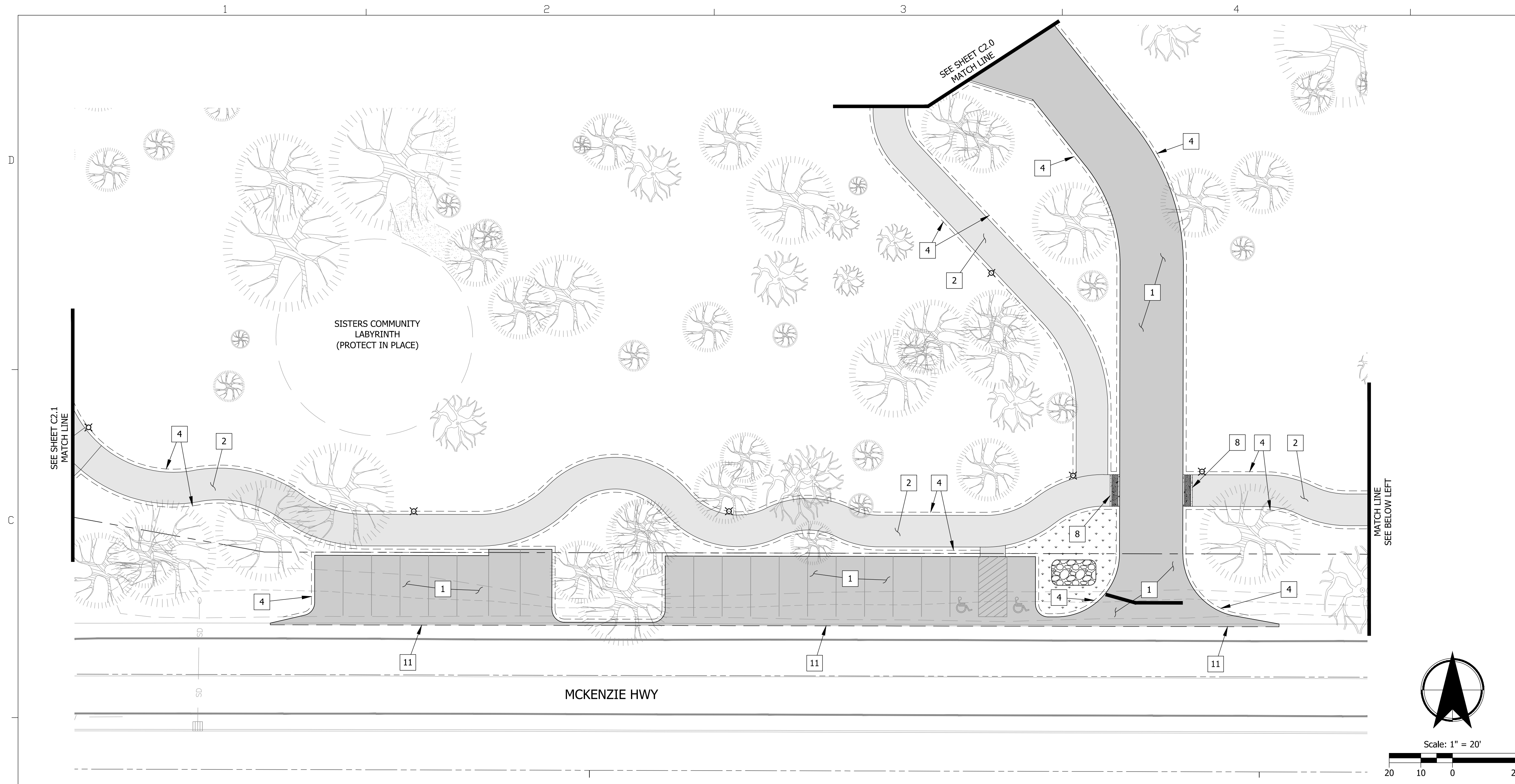
Site Plan - W. Hood Ave

EAST PORTAL MOBILITY HUB IMPROVEMENTS

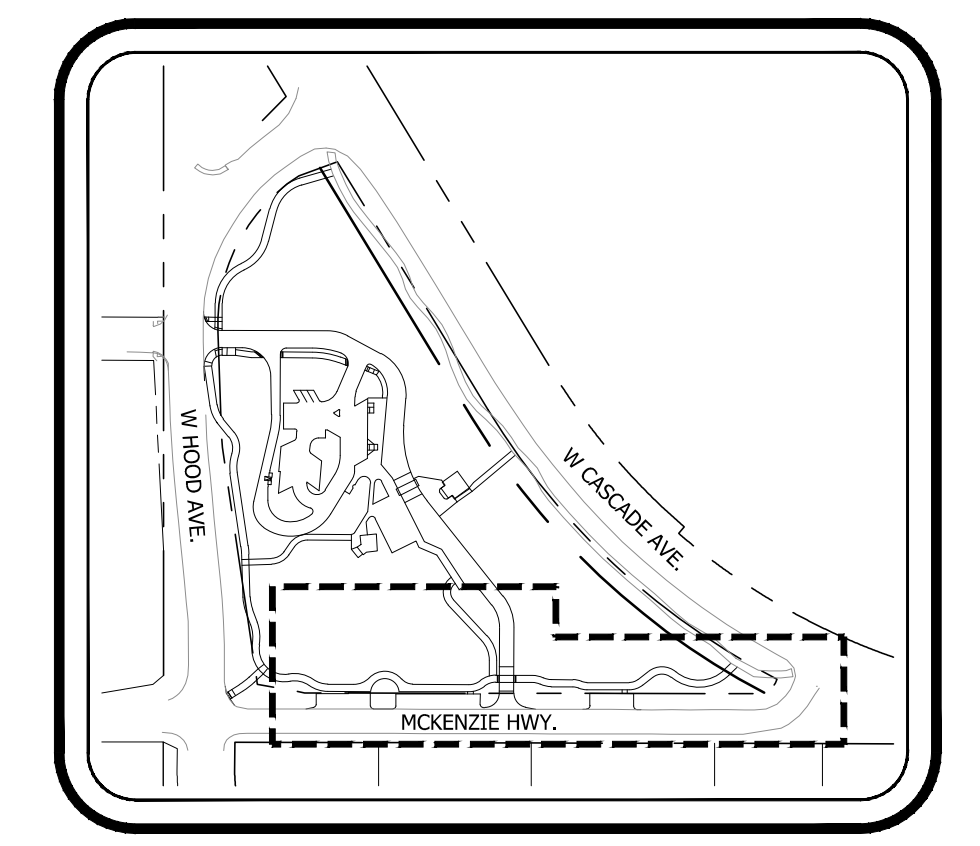
SCALE AS SHOWN

DRAWING NAME

SHEET **C2.1**



- CONSTRUCTION NOTES**
- 1 CONSTRUCT VEHICLE ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET CS.2.
  - 2 CONSTRUCT MULTI-USE PATH ASPHALT PAVING SECTION PER DETAIL 1 ON SHEET CS.2.
  - 4 CONSTRUCT COMPACTED GRAVEL SHOULDER PER DETAIL 2 ON SHEET CS.2.
  - 8 CONSTRUCT PCC SIDEWALK SECTION, 3' x FULL PATH WIDTH AND WET-SET TRUNCATED DOMES DETECTABLE WARNING 2' x FULL PATH WIDTH, SEE DETAIL 3 ON SHEET CS.2.
  - 11 SAWCUT AND REMOVE EXISTING AC PAVEMENT. PROVIDE CLEAN EDGE FOR PAVEMENT REPLACEMENT JOINT.
  - 13 COVERED PARKING CANOPY AND SOLAR PANELS TO BE CONSTRUCTED BY OTHERS.
  - 17 LANDSCAPE AREA, INSTALL 12" MIN. STRIPPINGS TOPSOIL.

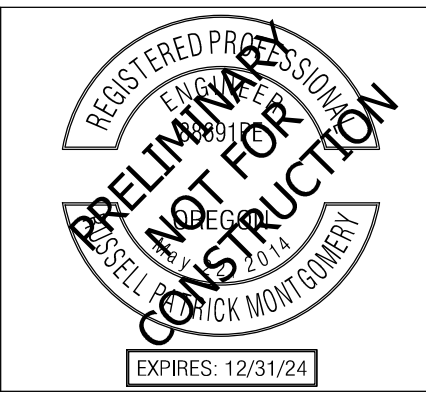


KEY MAP  
SCALE: NTS

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



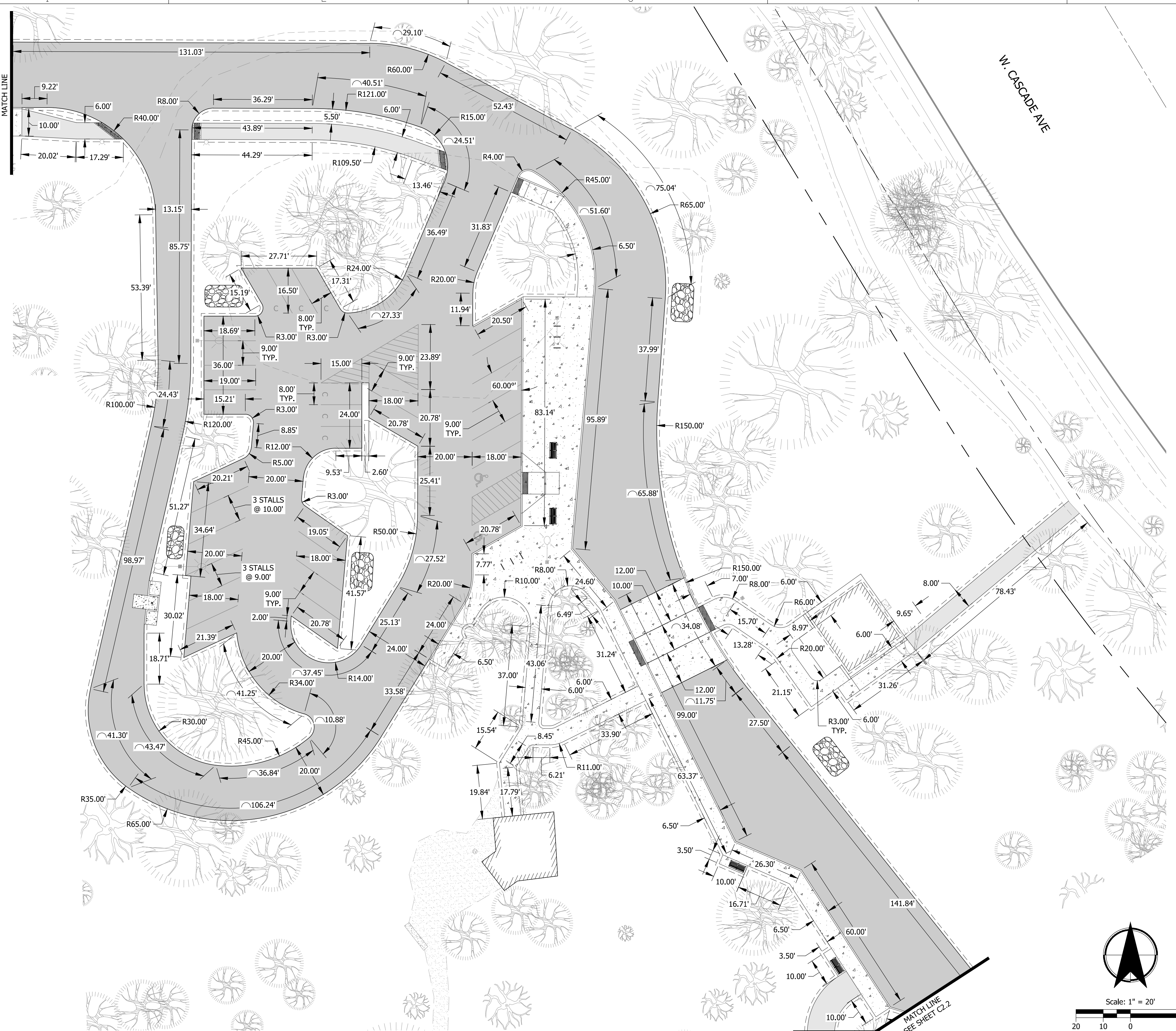
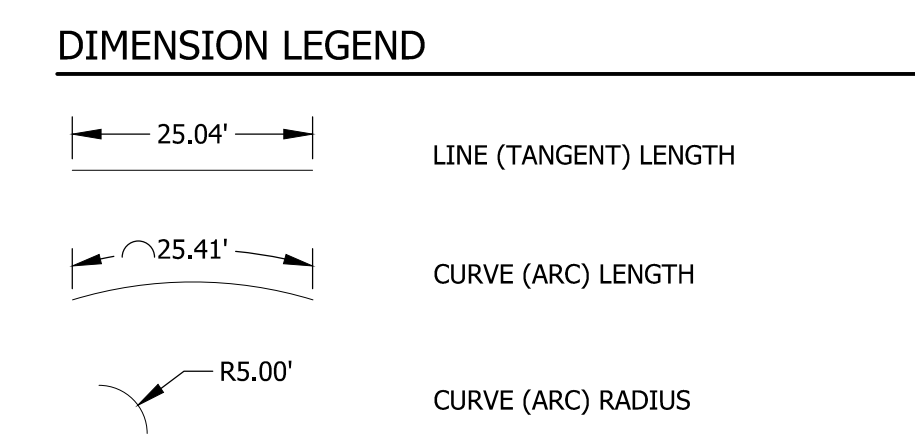
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CHECKED	AMR
DATE	June 2024



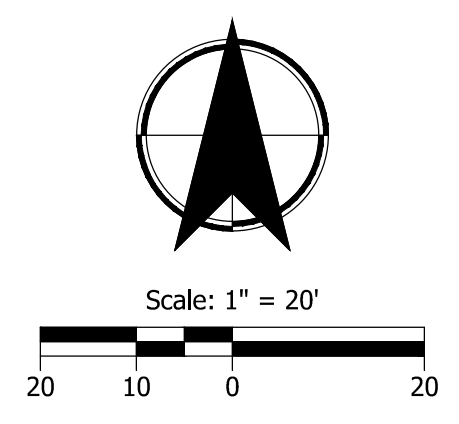
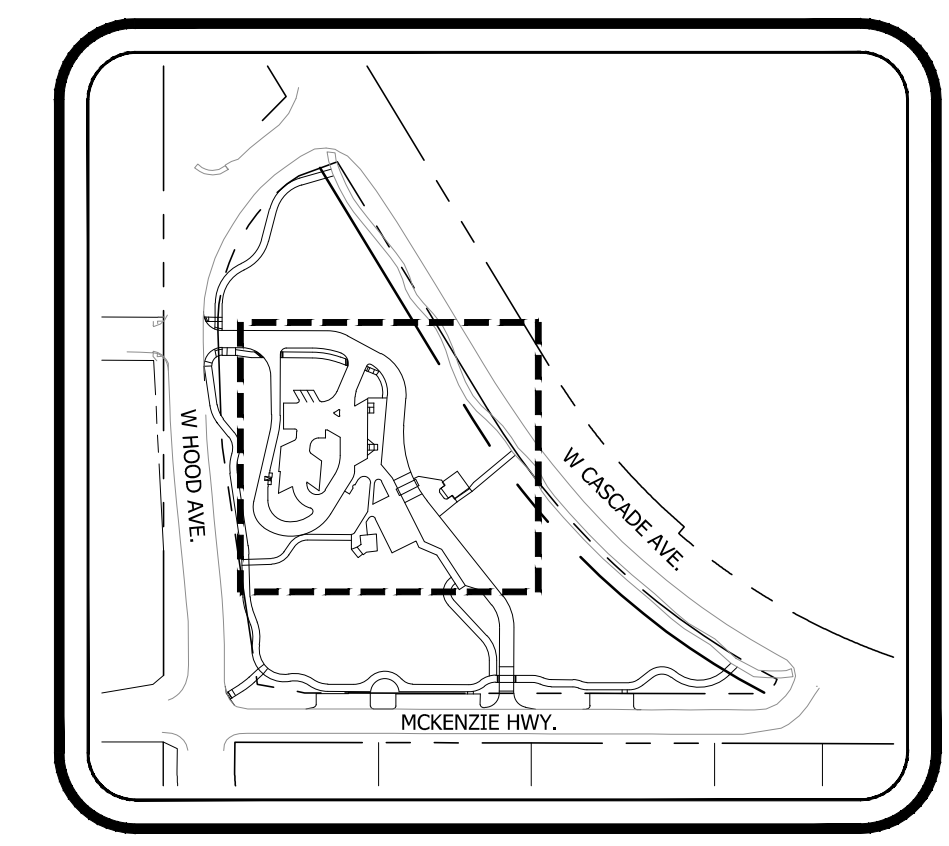
Site Plan - McKenzie Hwy  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: C2.2

SEE SHEET C2.1  
MATCH LINE



W. CASCADE AVE

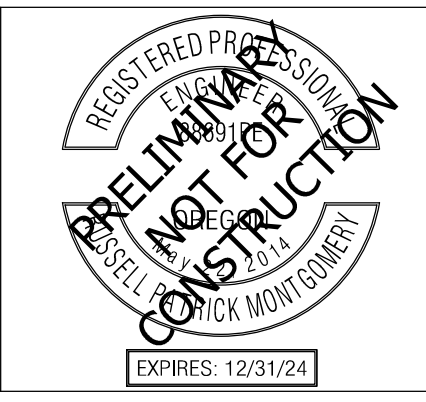


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

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PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

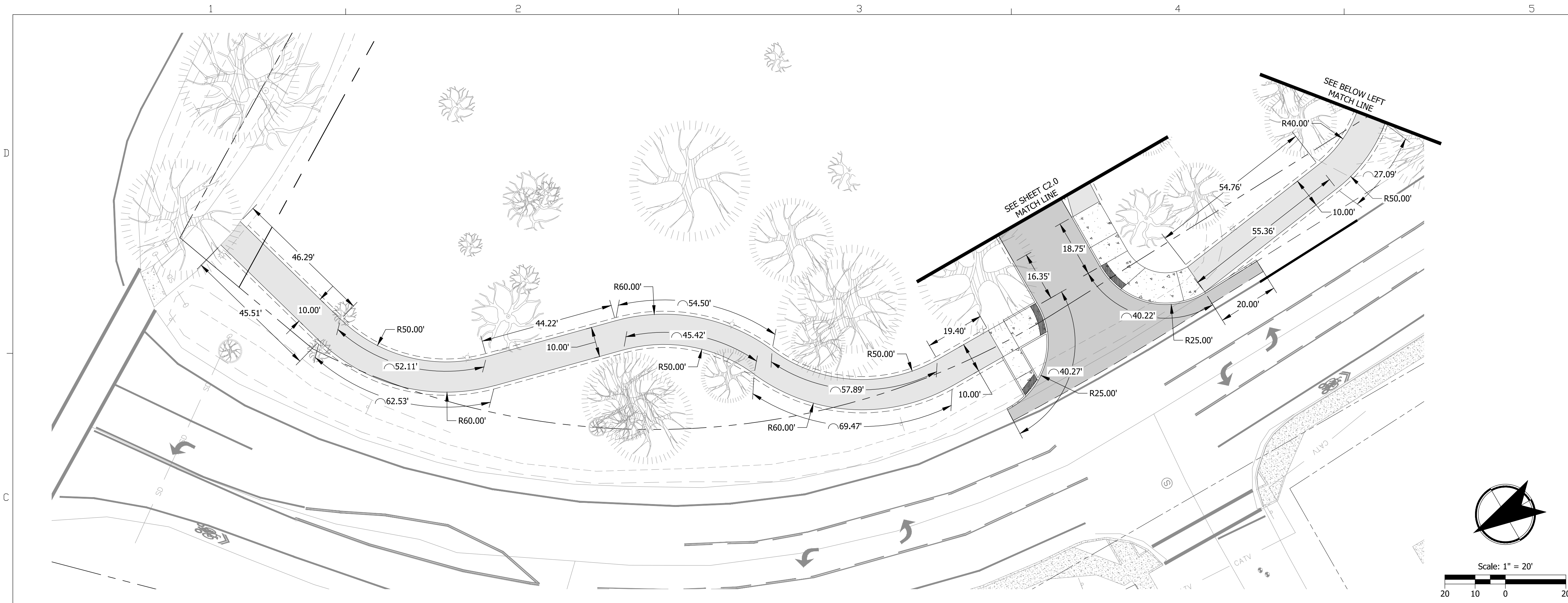


**Dimension Site Plan - Mobility Hub**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

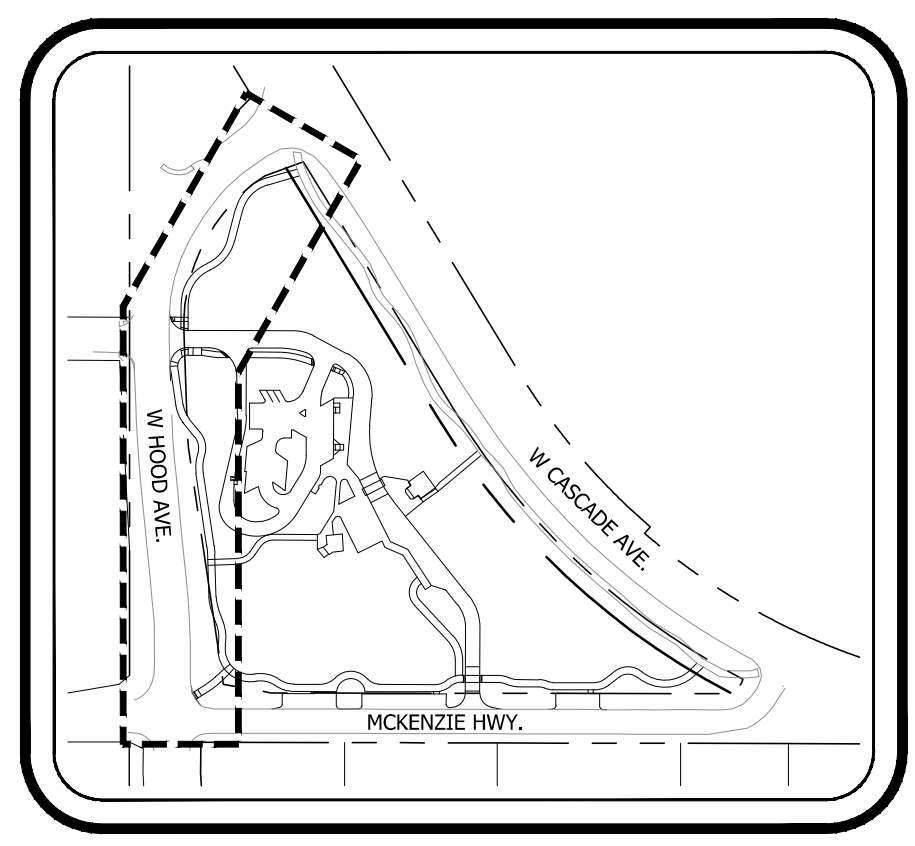
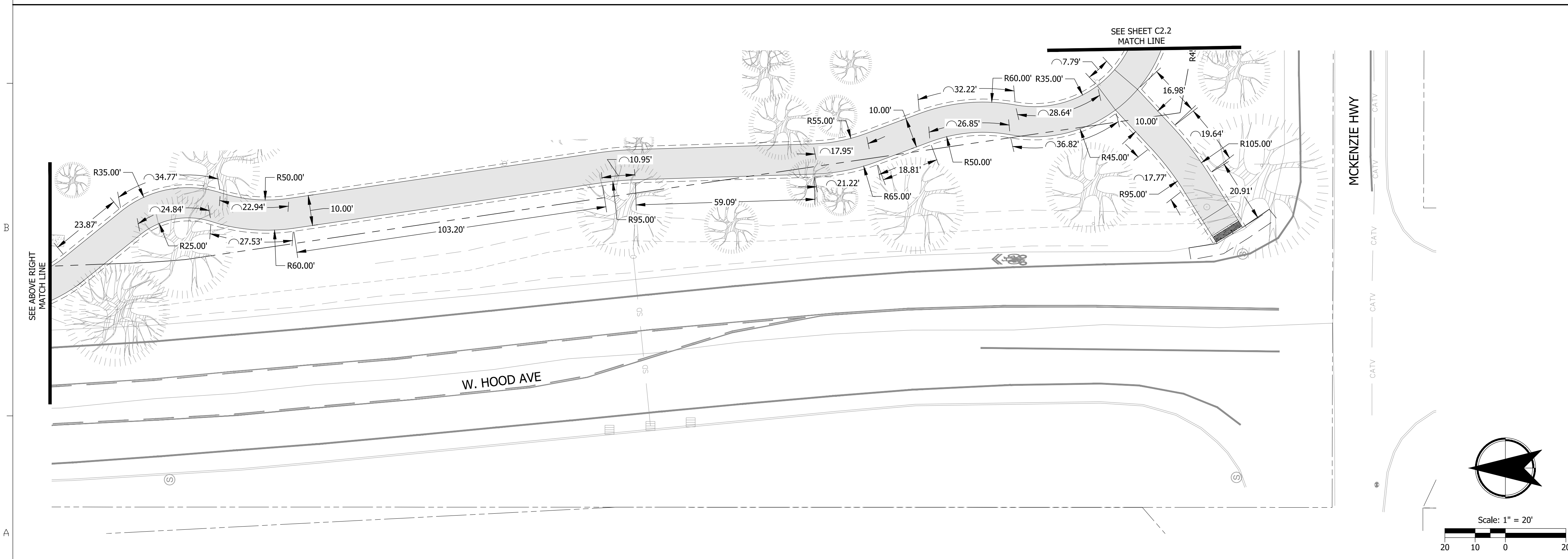
SCALE	AS SHOWN
DRAWING NAME	
SHEET	<b>C2.3</b>





**DIMENSION LEGEND**

	25.04'	LINE (TANGENT) LENGTH
	25.41'	CURVE (ARC) LENGTH
	R5.00'	CURVE (ARC) RADIUS

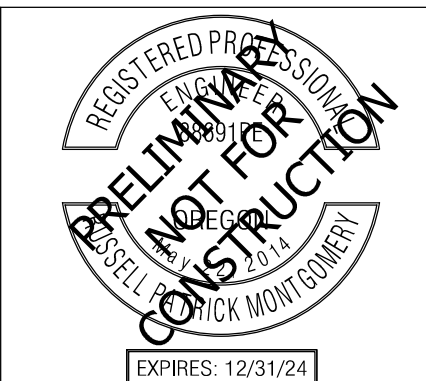


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



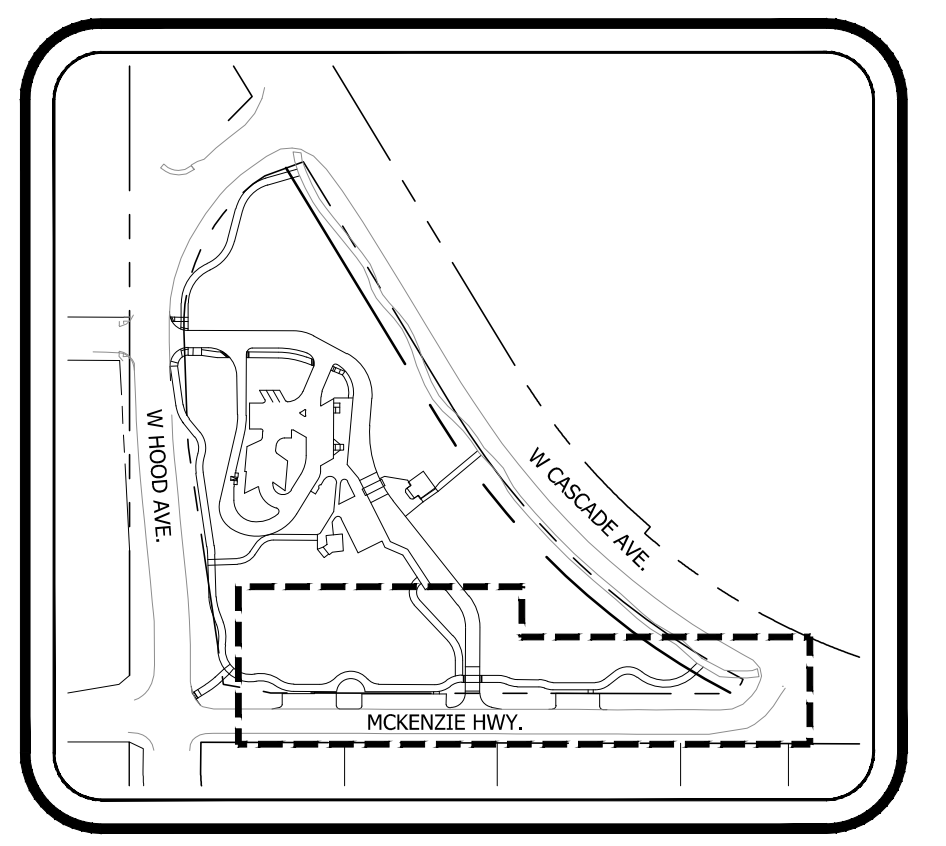
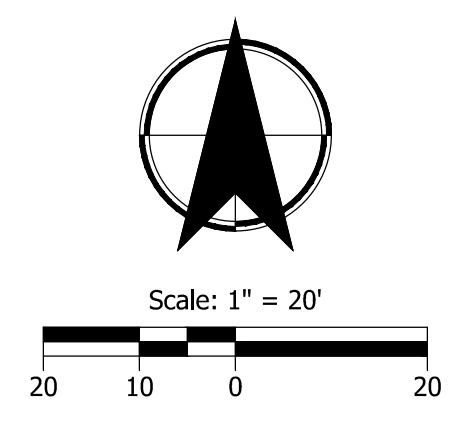
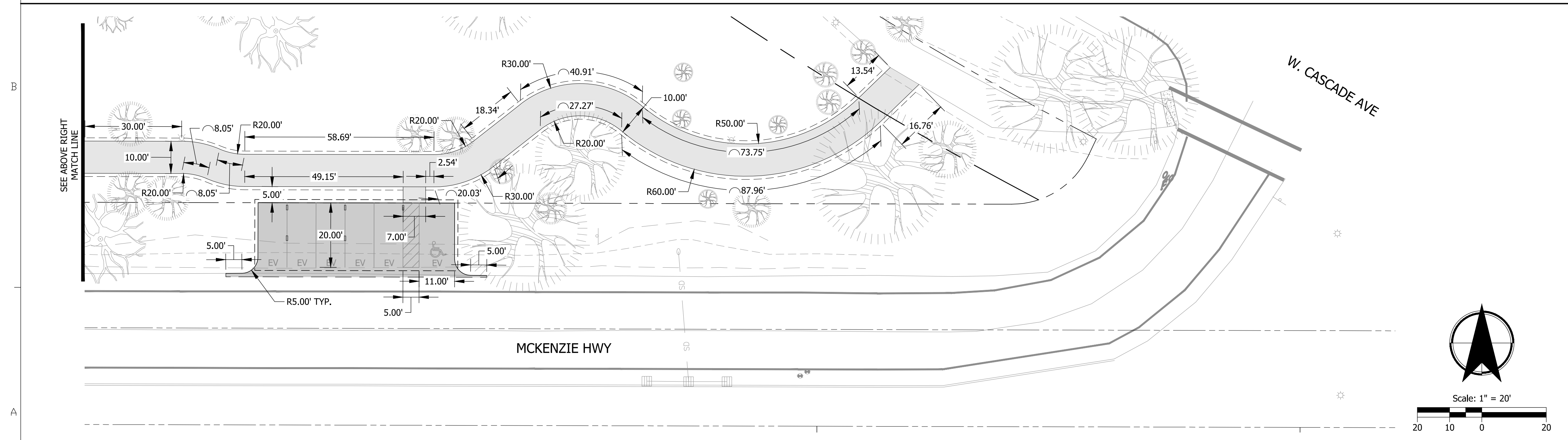
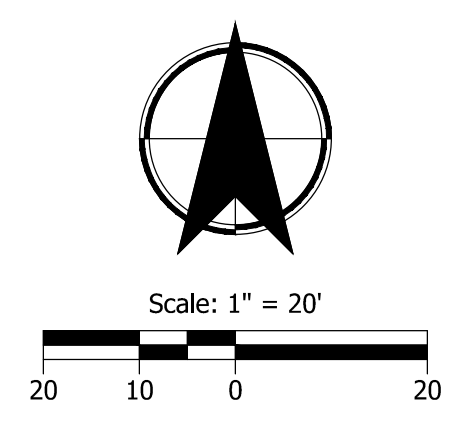
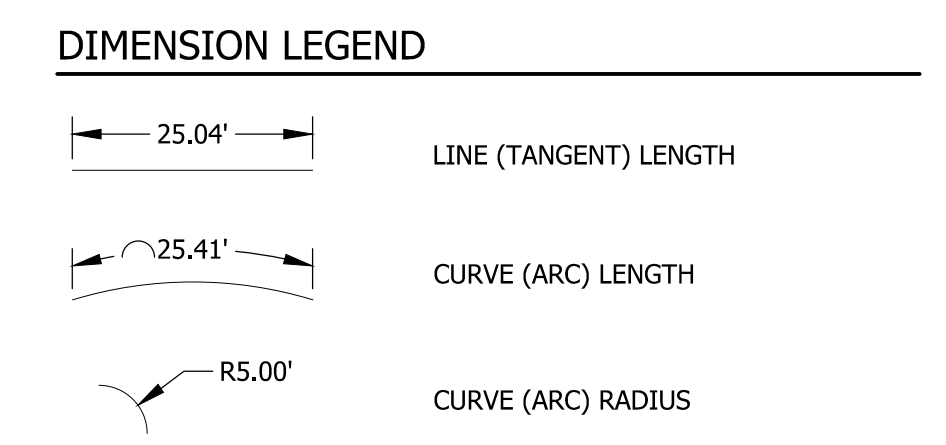
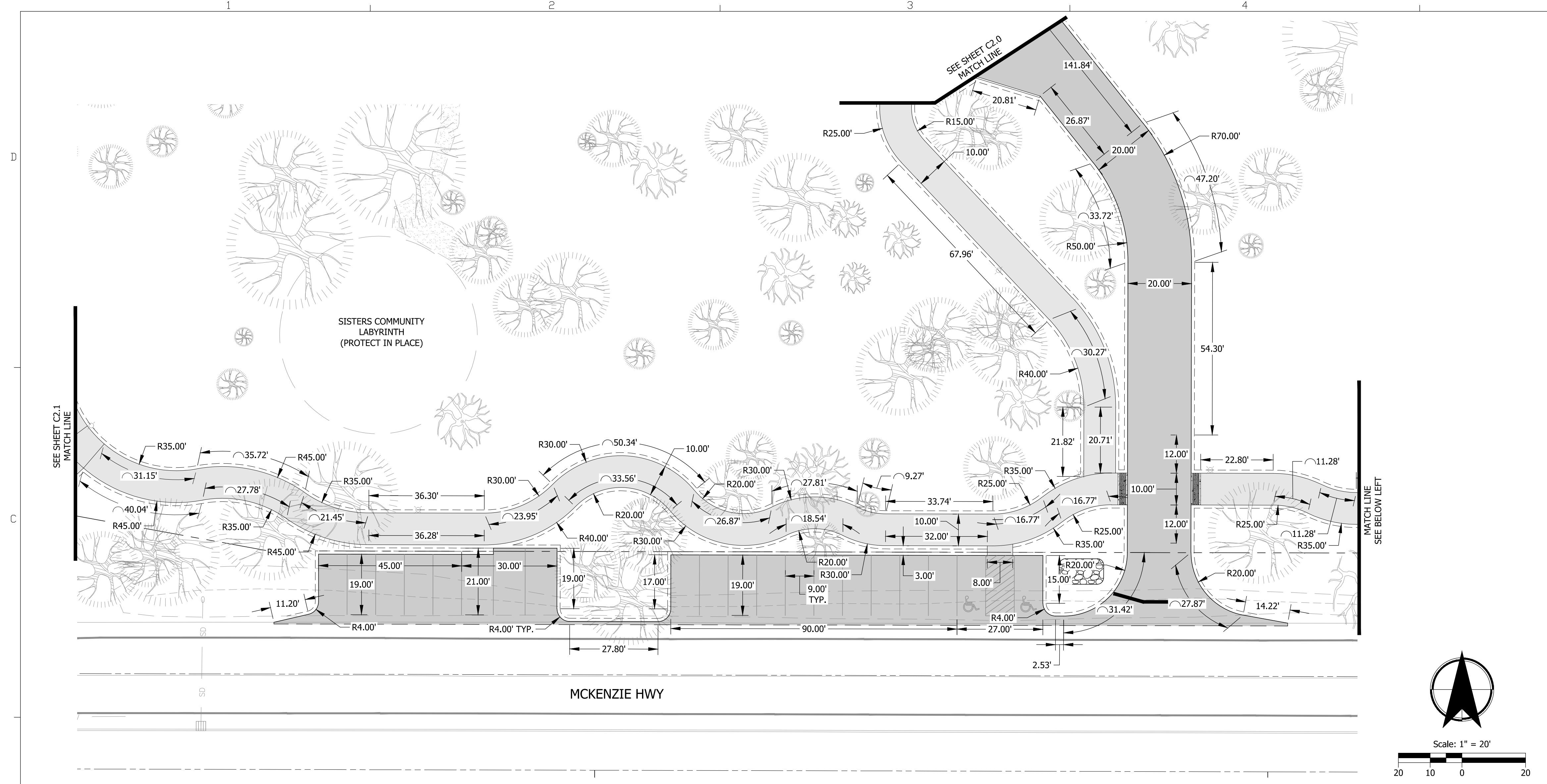
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DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Dimension Site Plan - W. Hood Ave**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	C2.4



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
 PRELIMINARY  
 NOT FOR CONSTRUCTION  
 EXPIRES: 12/31/24

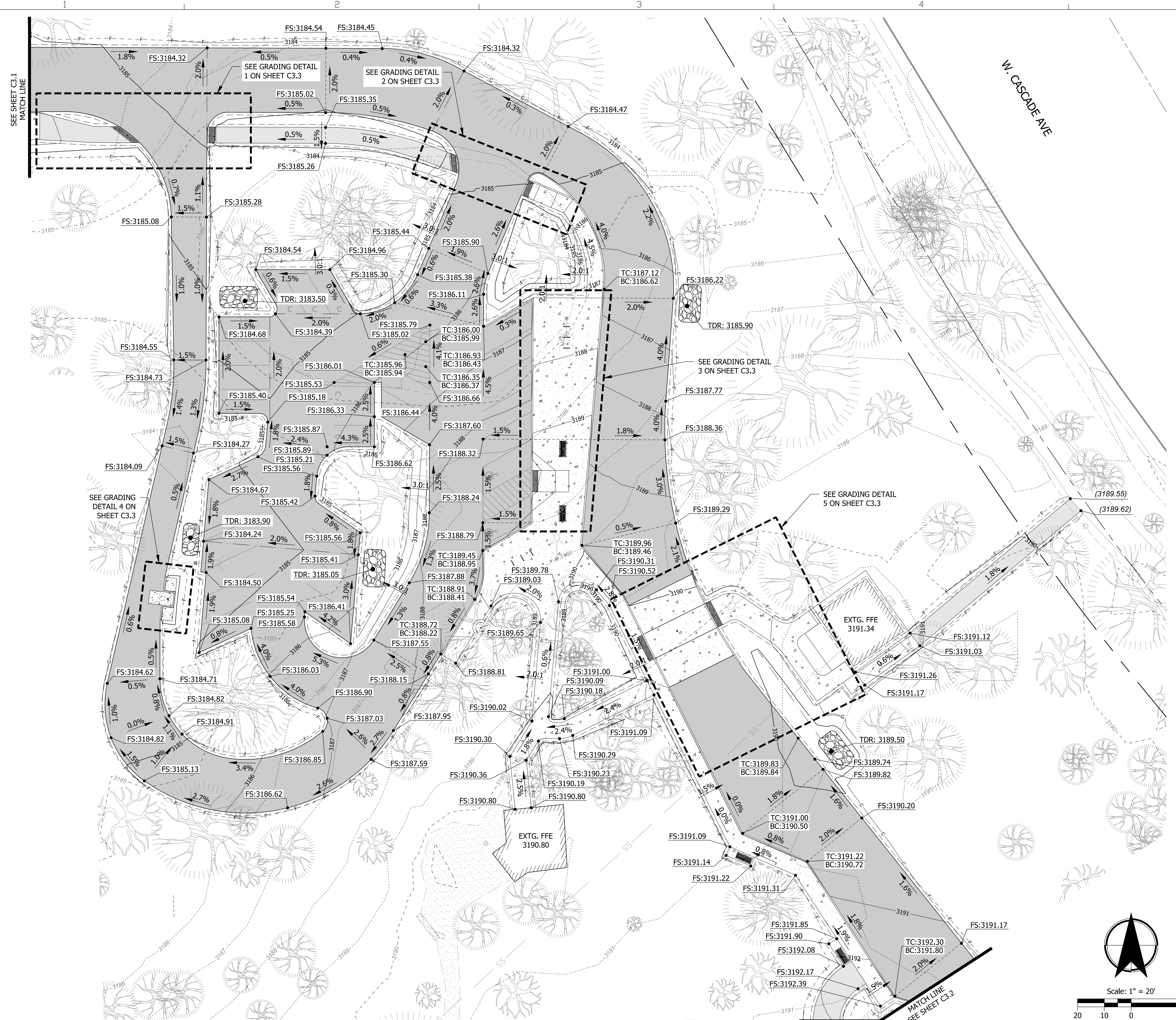
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CHECKED	AMR
DATE	June 2024

**CITY OF SISTERS**  
 EST. 1946

**Dimension Site Plan - McKenzie Hwy**

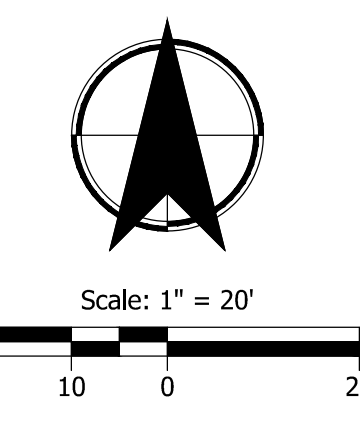
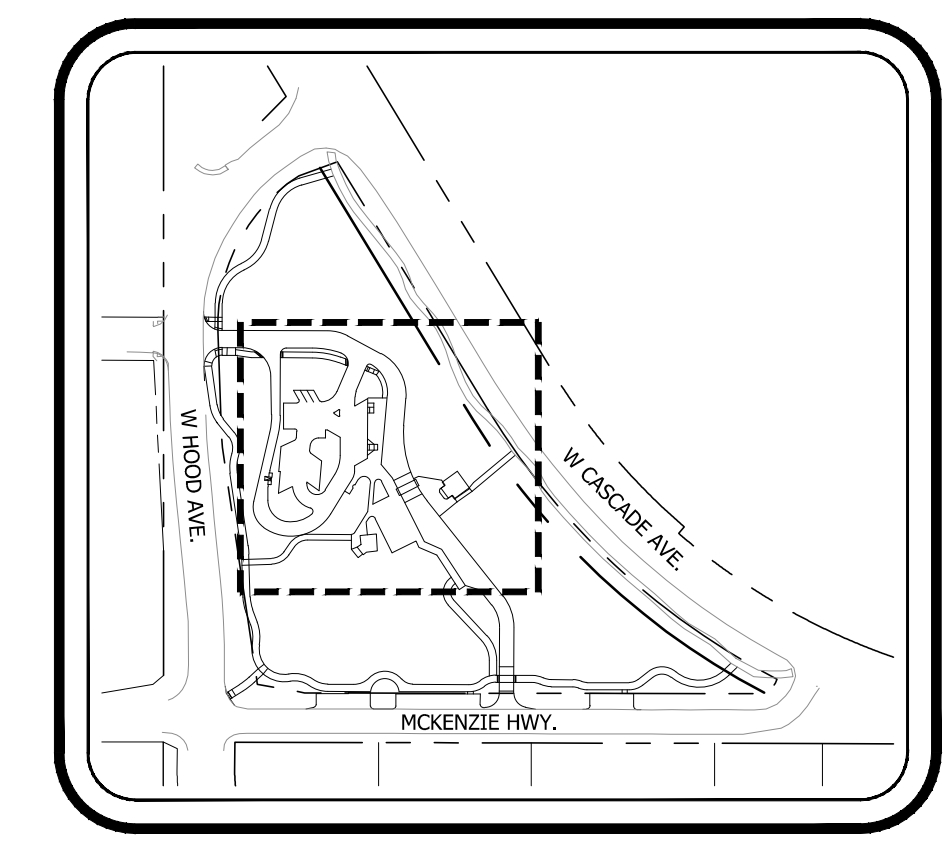
EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	<b>C2.5</b>



**SPOT ELEVATION ABBREVIATIONS**

- R - RIM
- FFE - FINISHED FLOOR ELEVATION
- TC - TOP BACK OF CURB
- BC - BOTTOM FACE OF CURB
- FS - FINISHED SURFACE
- FG - FINISHED GROUND (TOP OF TOPSOIL)
- TDR - TOP OF DRAIN ROCK
- ( ) - EXISTING ELEVATION



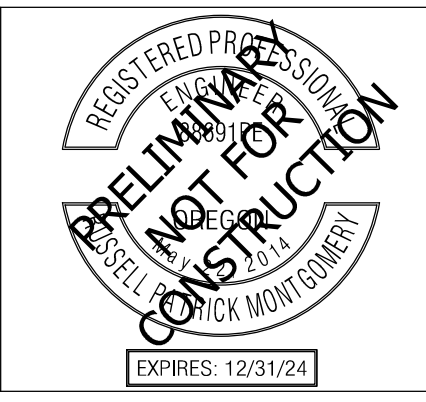
REV.	DESCRIPTION	APPR.	DATE

REVISIONS

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



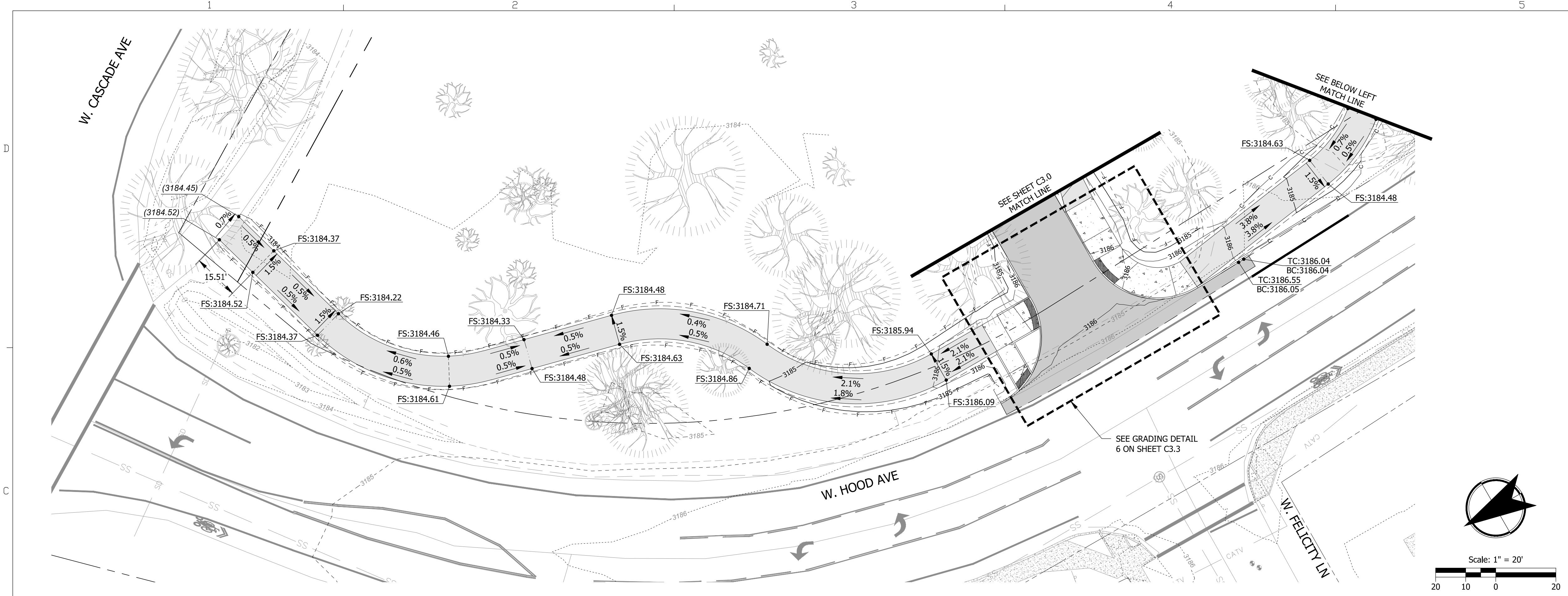
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CHECKED	AMR
DATE	June 2024



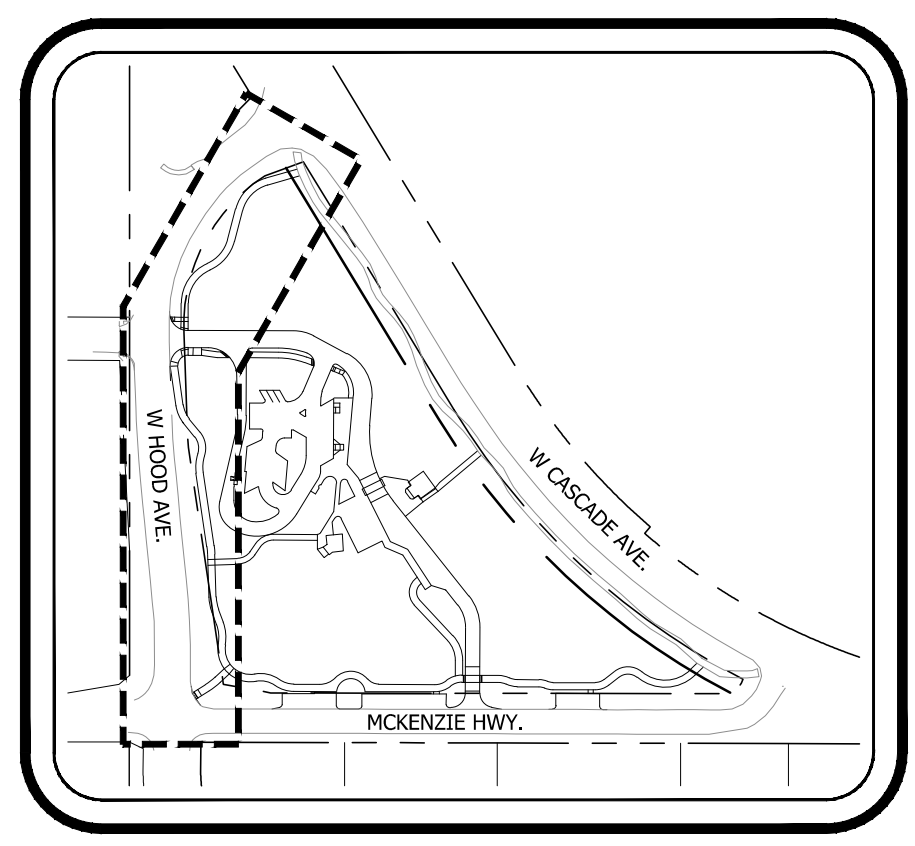
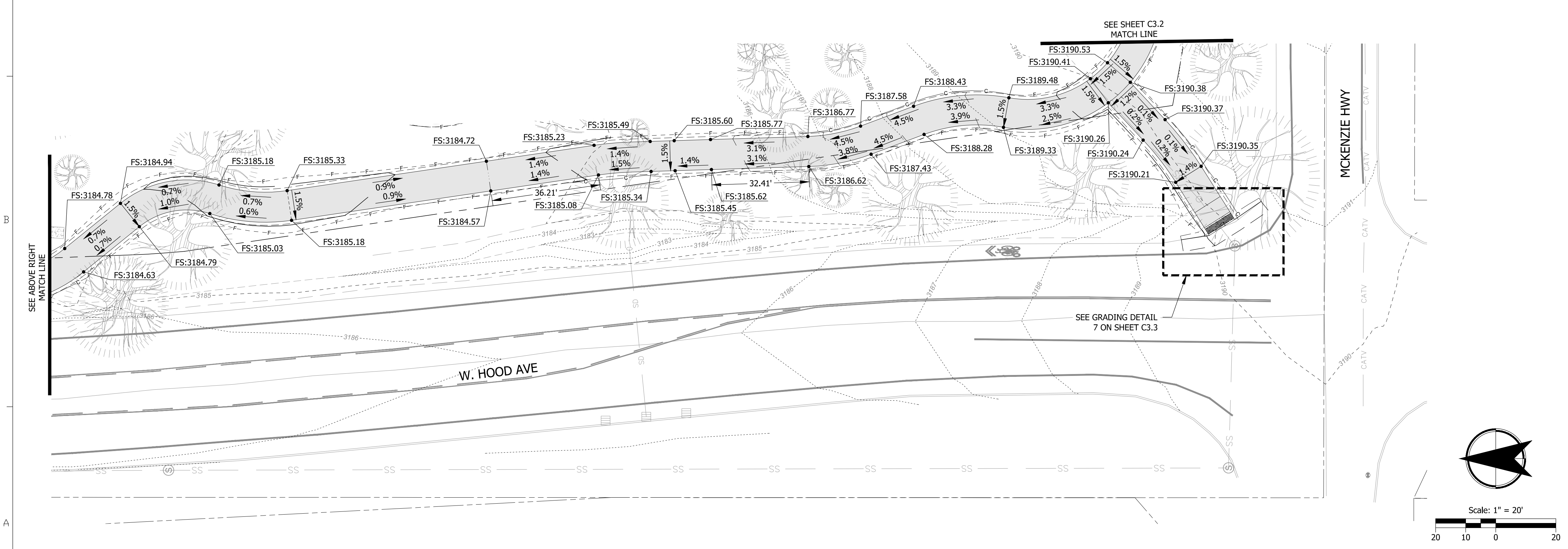
**Grading Plan - Mobility Hub**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: **C3.0**



- SPOT ELEVATION ABBREVIATIONS**
- R - RIM
  - FFE - FINISHED FLOOR ELEVATION
  - TC - TOP BACK OF CURB
  - BC - BOTTOM FACE OF CURB
  - FS - FINISHED SURFACE
  - FG - FINISHED GROUND (TOP OF TOPSOIL)
  - TDR - TOP OF DRAIN ROCK
  - ( ) - EXISTING ELEVATION

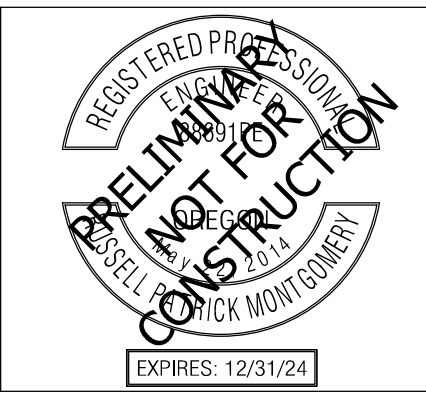


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



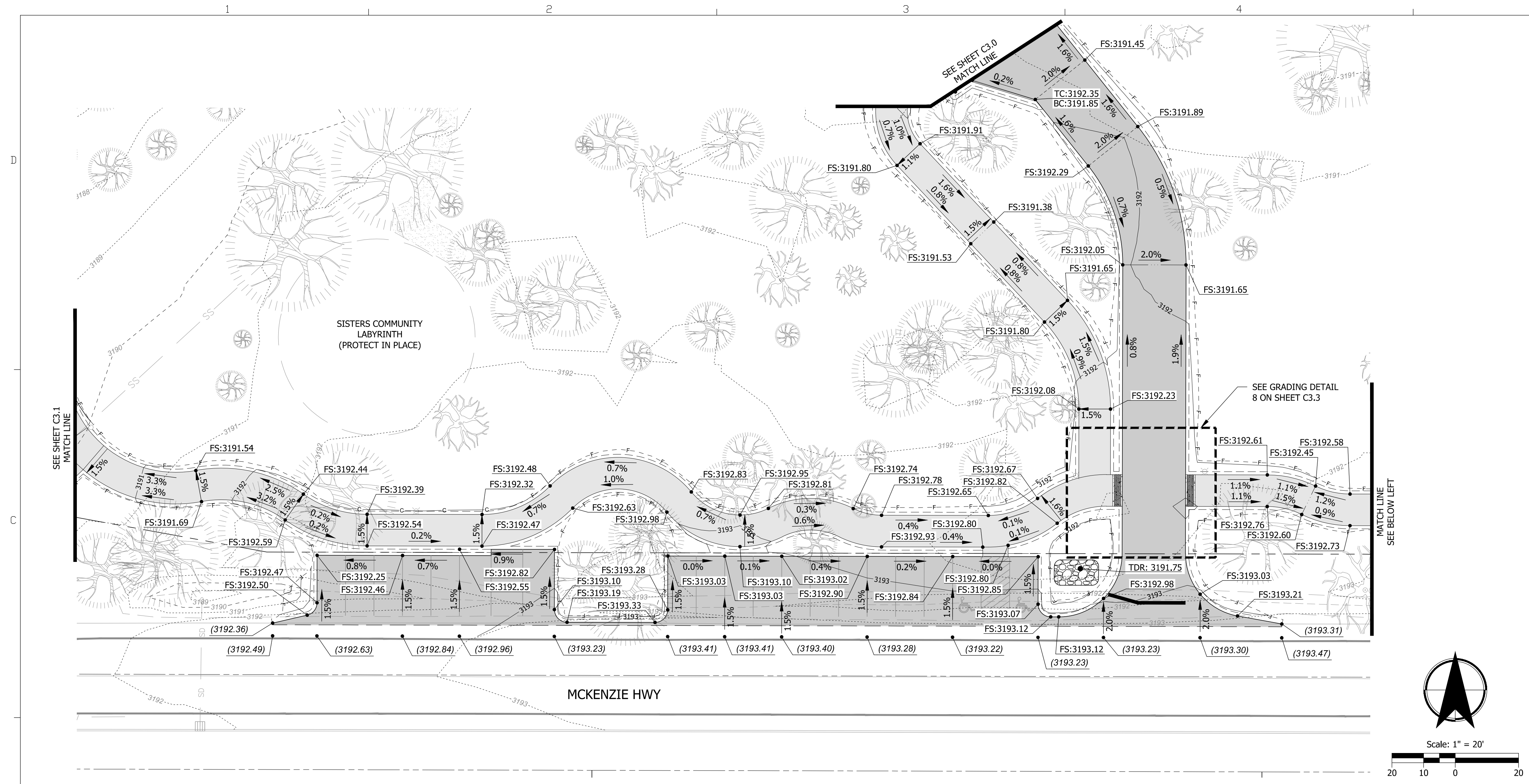
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DATE	June 2024



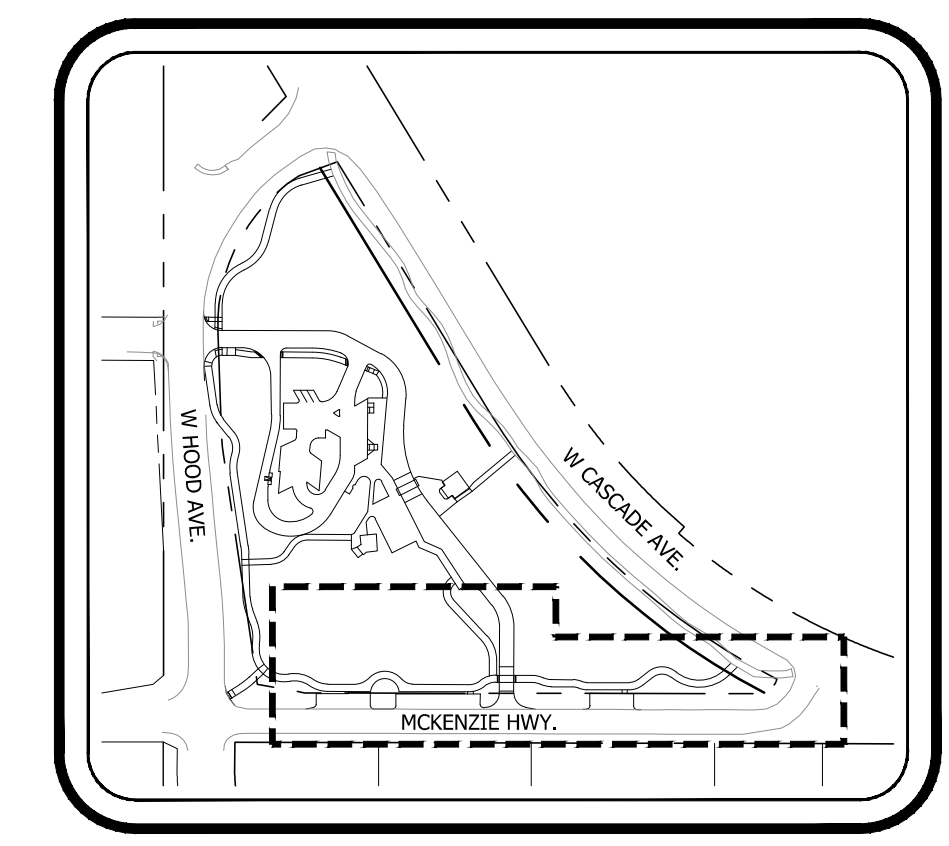
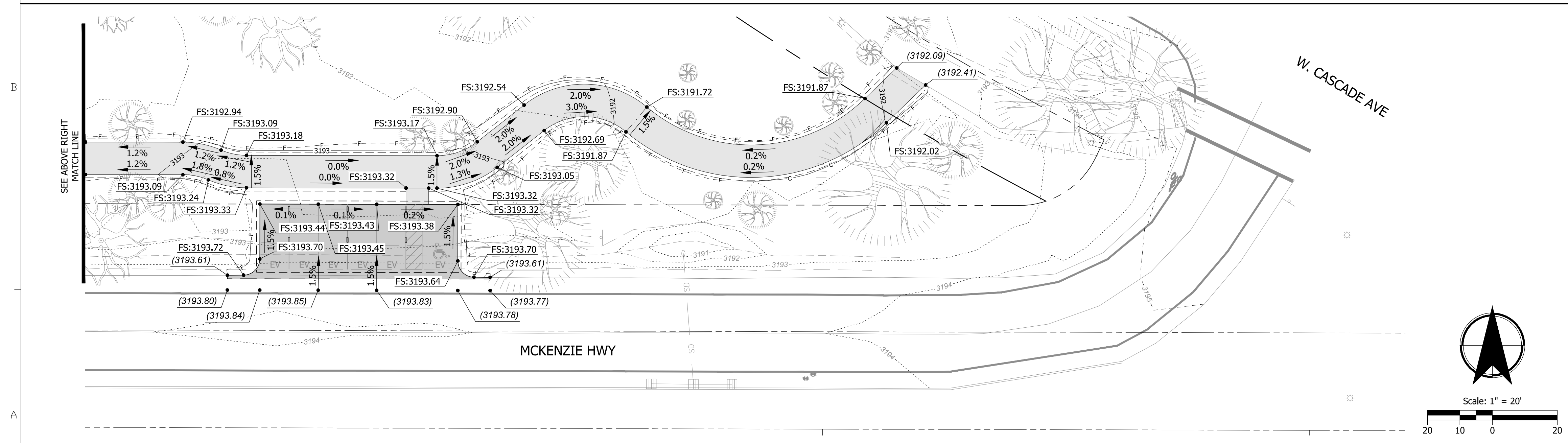
**Grading Plan - W. Hood Ave**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: **C3.1**



- SPOT ELEVATION ABBREVIATIONS**
- R - RIM
  - FFE - FINISHED FLOOR ELEVATION
  - TC - TOP BACK OF CURB
  - BC - BOTTOM FACE OF CURB
  - FS - FINISHED SURFACE
  - FG - FINISHED GROUND (TOP OF TOPSOIL)
  - TDR - TOP OF DRAIN ROCK
  - ( ) - EXISTING ELEVATION

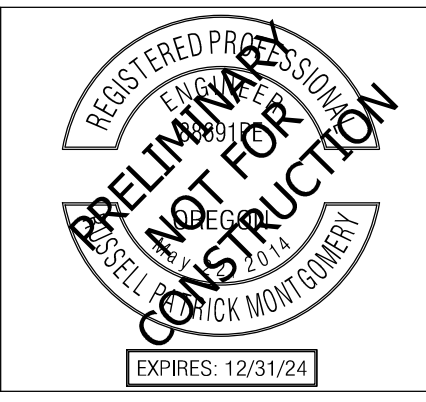


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PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Grading Plan - McKenzie Hwy**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN

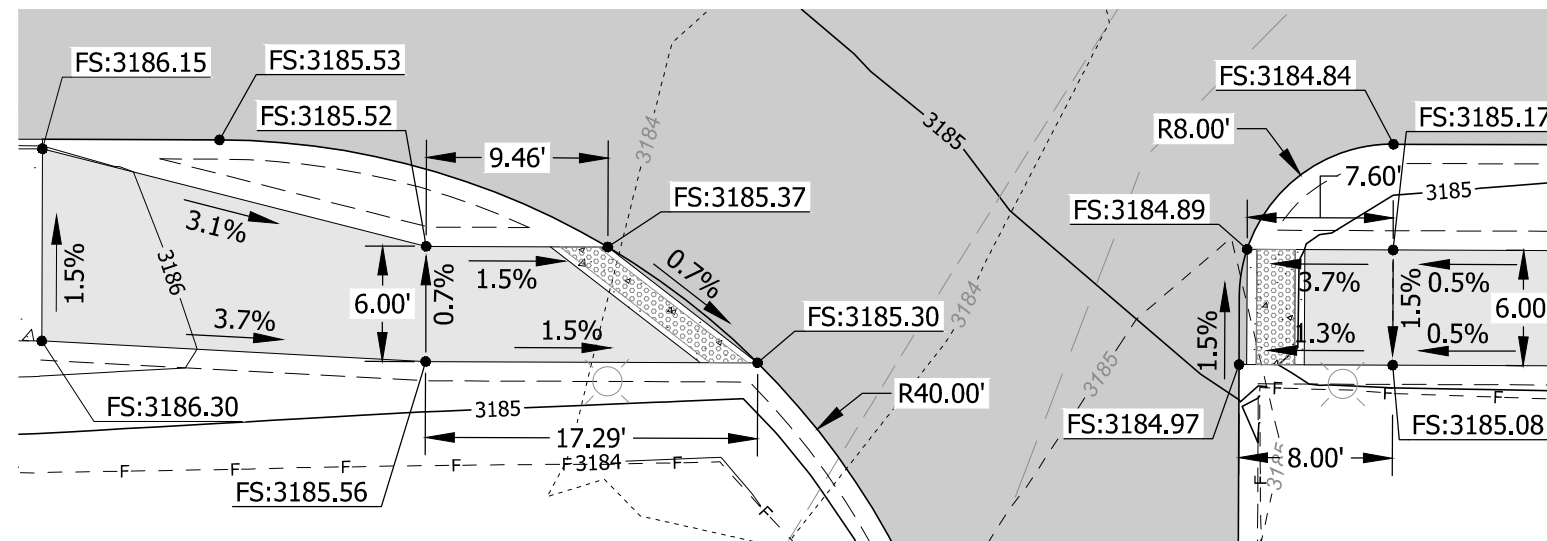
DRAWING NAME

SHEET

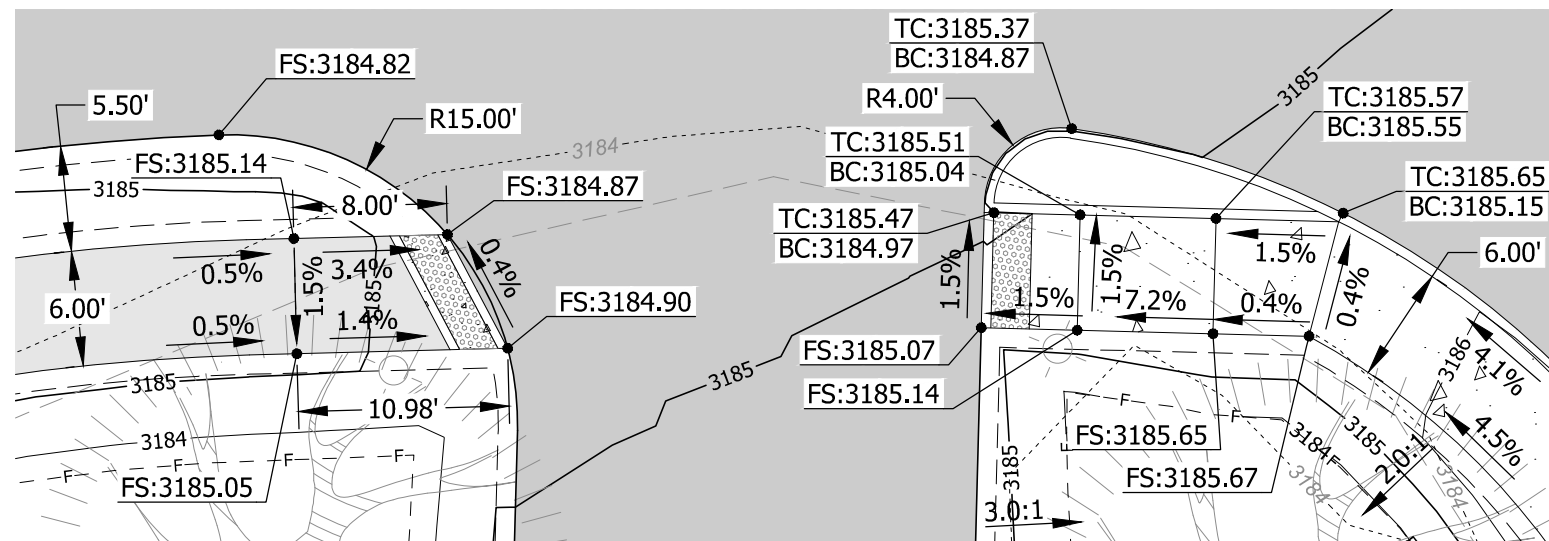
**C3.2**

**SPOT ELEVATION ABBREVIATIONS**

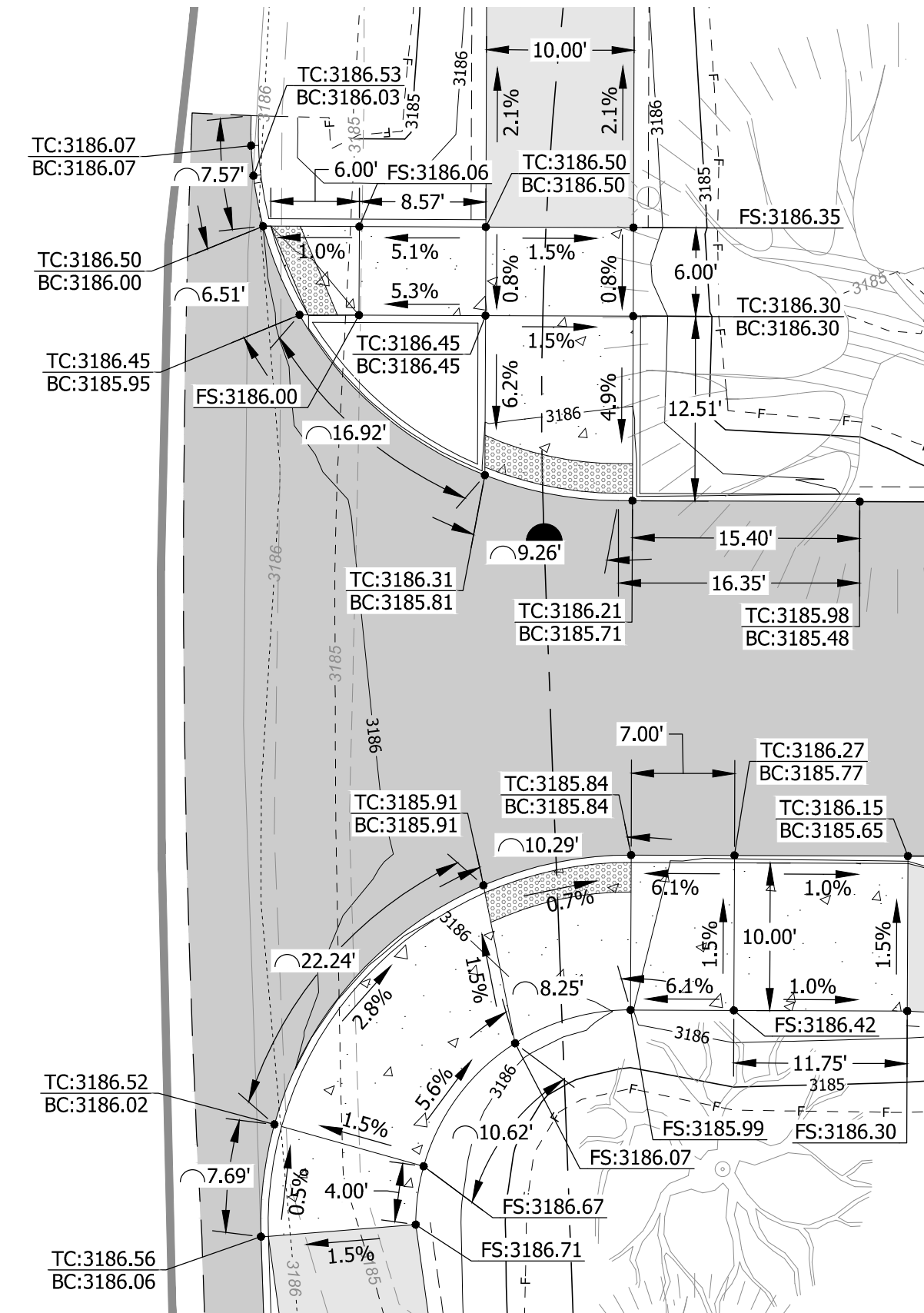
- R - RIM
- FFE - FINISHED FLOOR ELEVATION
- TC - TOP BACK OF CURB
- BC - BOTTOM FACE OF CURB
- FS - FINISHED SURFACE
- FG - FINISHED GROUND (TOP OF TOPSOIL)
- ( ) - EXISTING ELEVATION



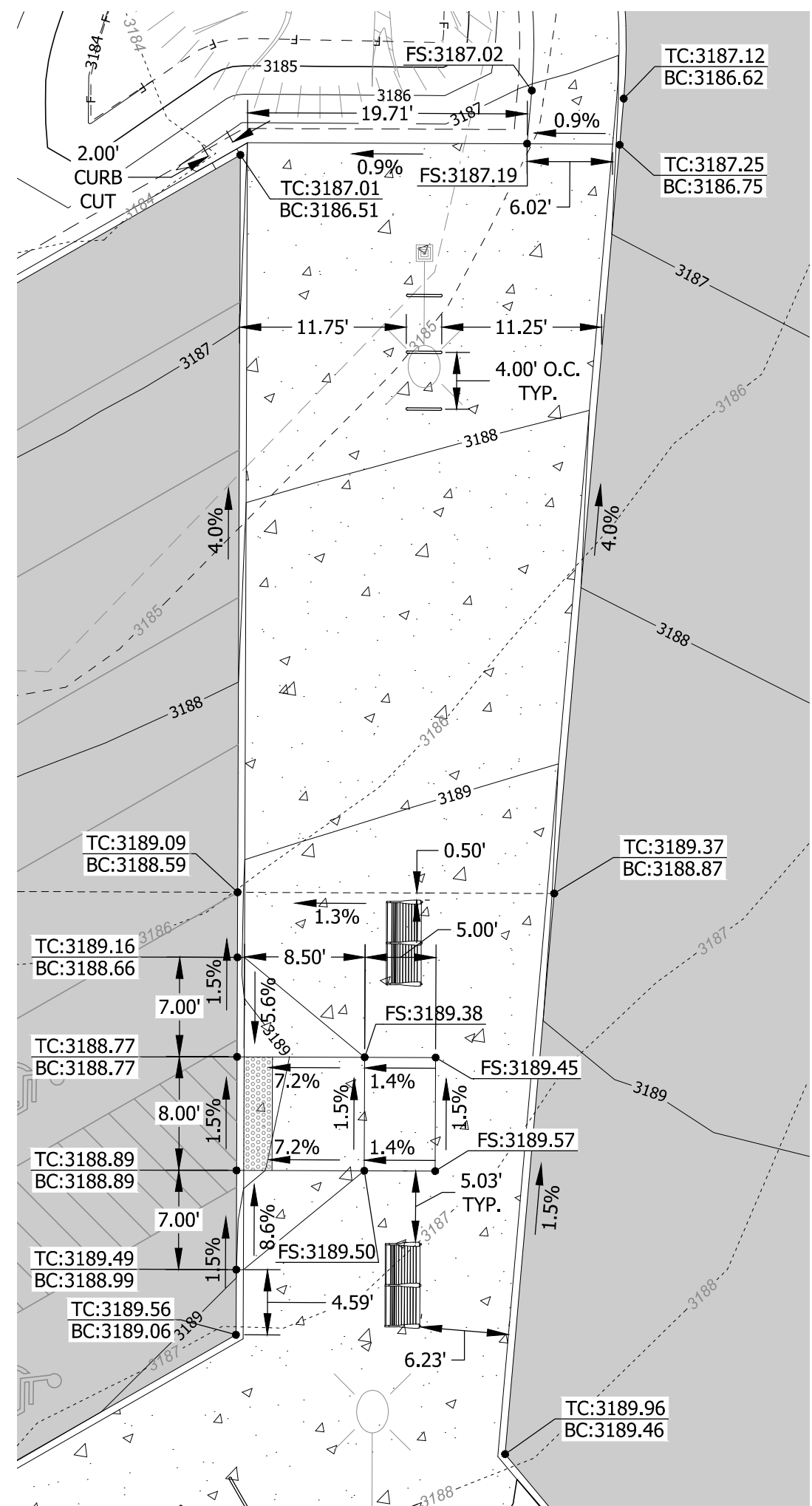
1 DUMP STATION CROSSING GRADING DETAIL  
SCALE: 1" = 10'



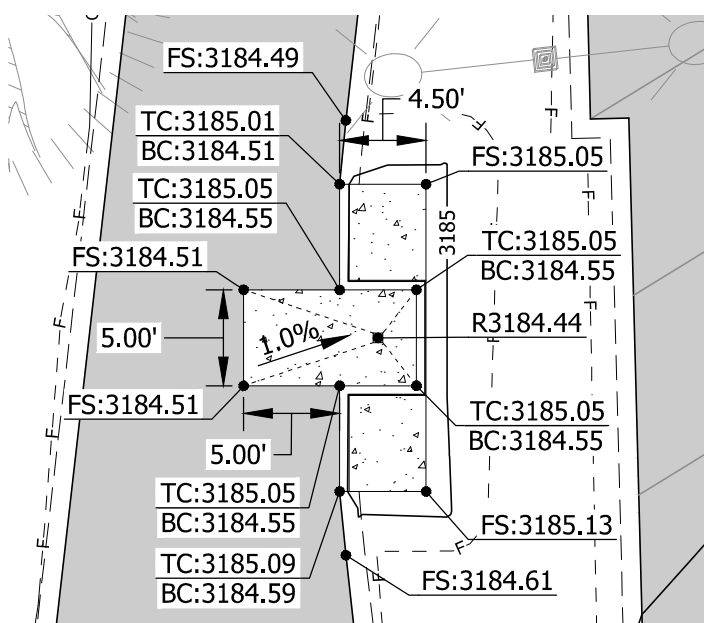
2 PARKING ENTRANCE CROSSING GRADING DETAIL  
SCALE: 1" = 10'



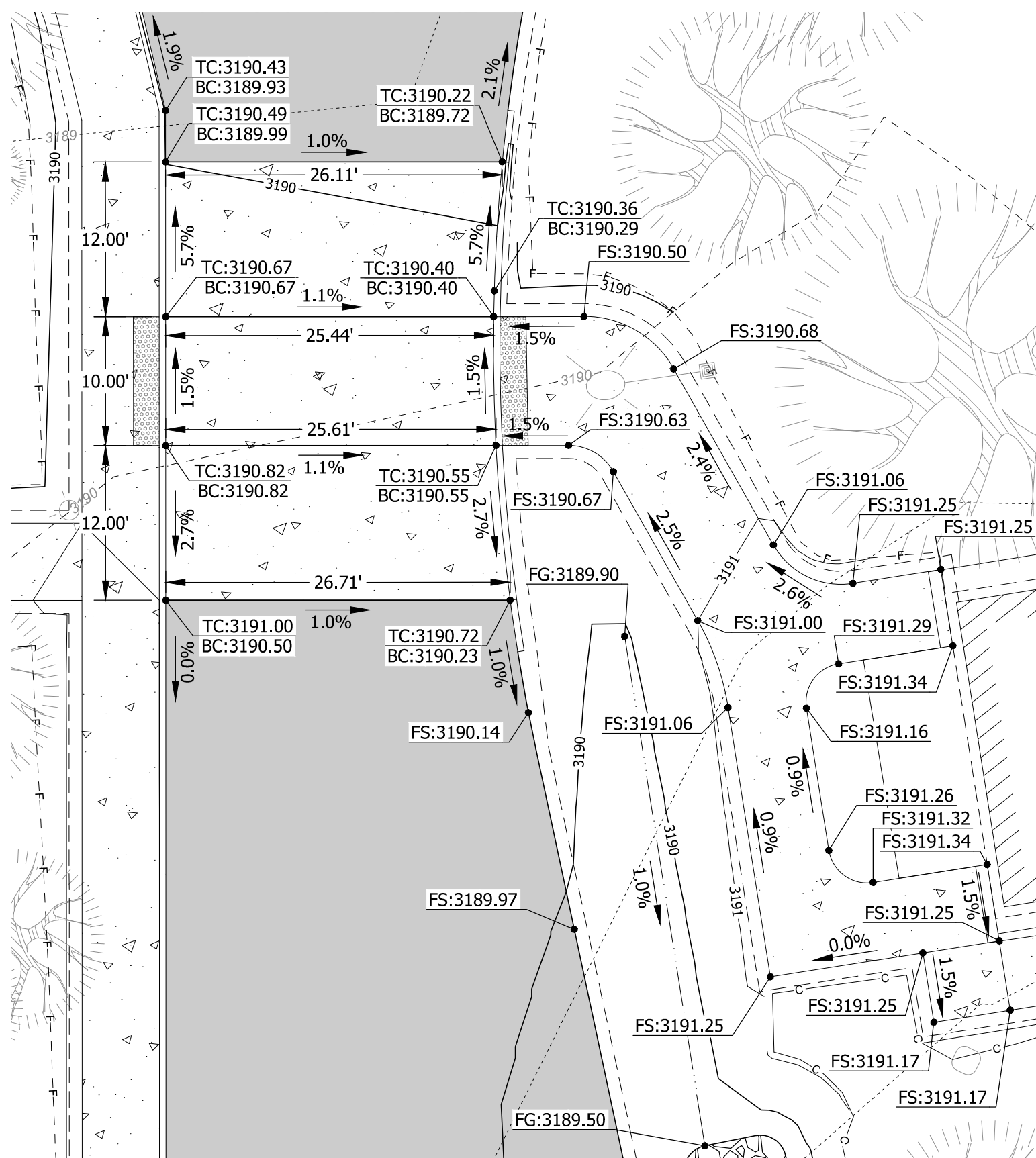
6 SITE ENTRANCE GRADING DETAIL  
SCALE: 1" = 10'



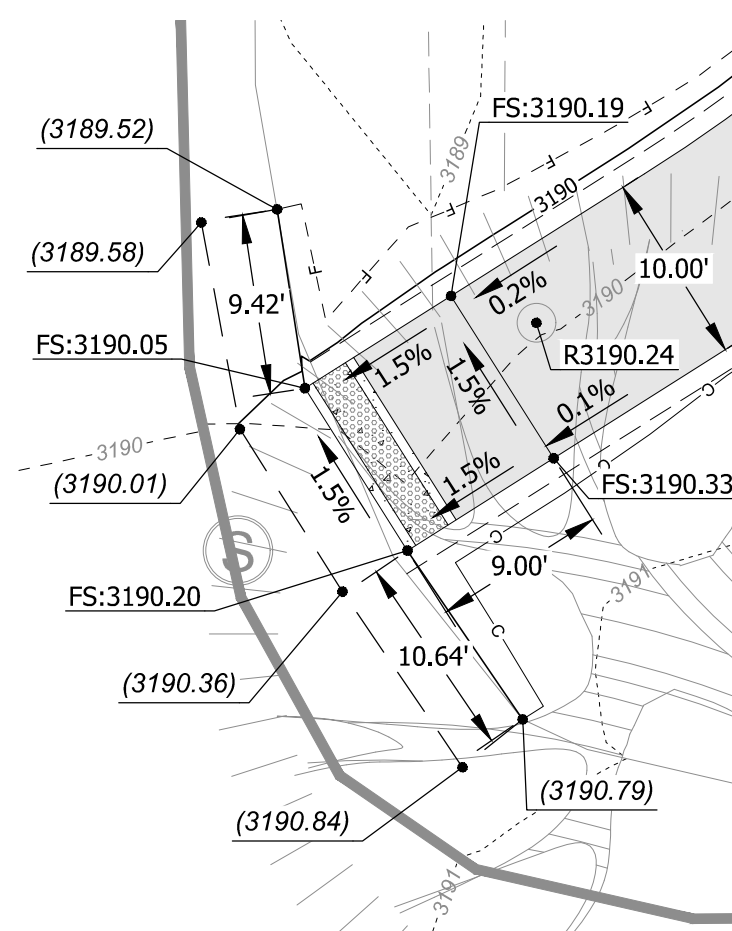
3 CENTRAL PLAZA GRADING DETAIL  
SCALE: 1" = 10'



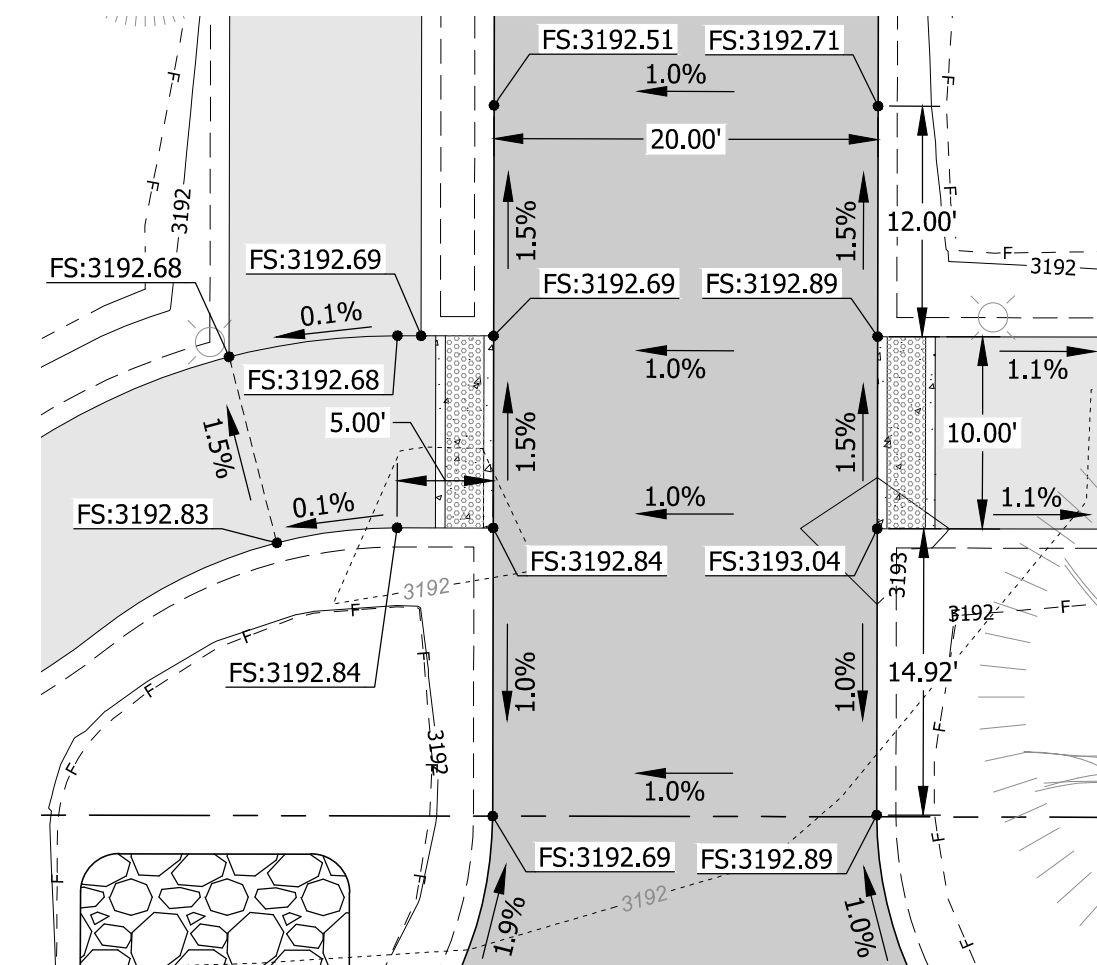
4 DUMP STATION GRADING DETAIL  
SCALE: 1" = 10'



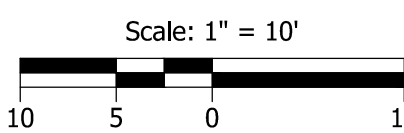
5 RESTROOM RAISED CROSSING GRADING DETAIL  
SCALE: 1" = 10'



7 SW CURB RAMP GRADING DETAIL  
SCALE: 1" = 10'



8 BUS EXIT RAISED CROSSING GRADING DETAIL  
SCALE: 1" = 10'



REV.	DESCRIPTION	APPR.	DATE

REVISIONS: [Table with 4 columns: REV, DESCRIPTION, APPR, DATE]

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

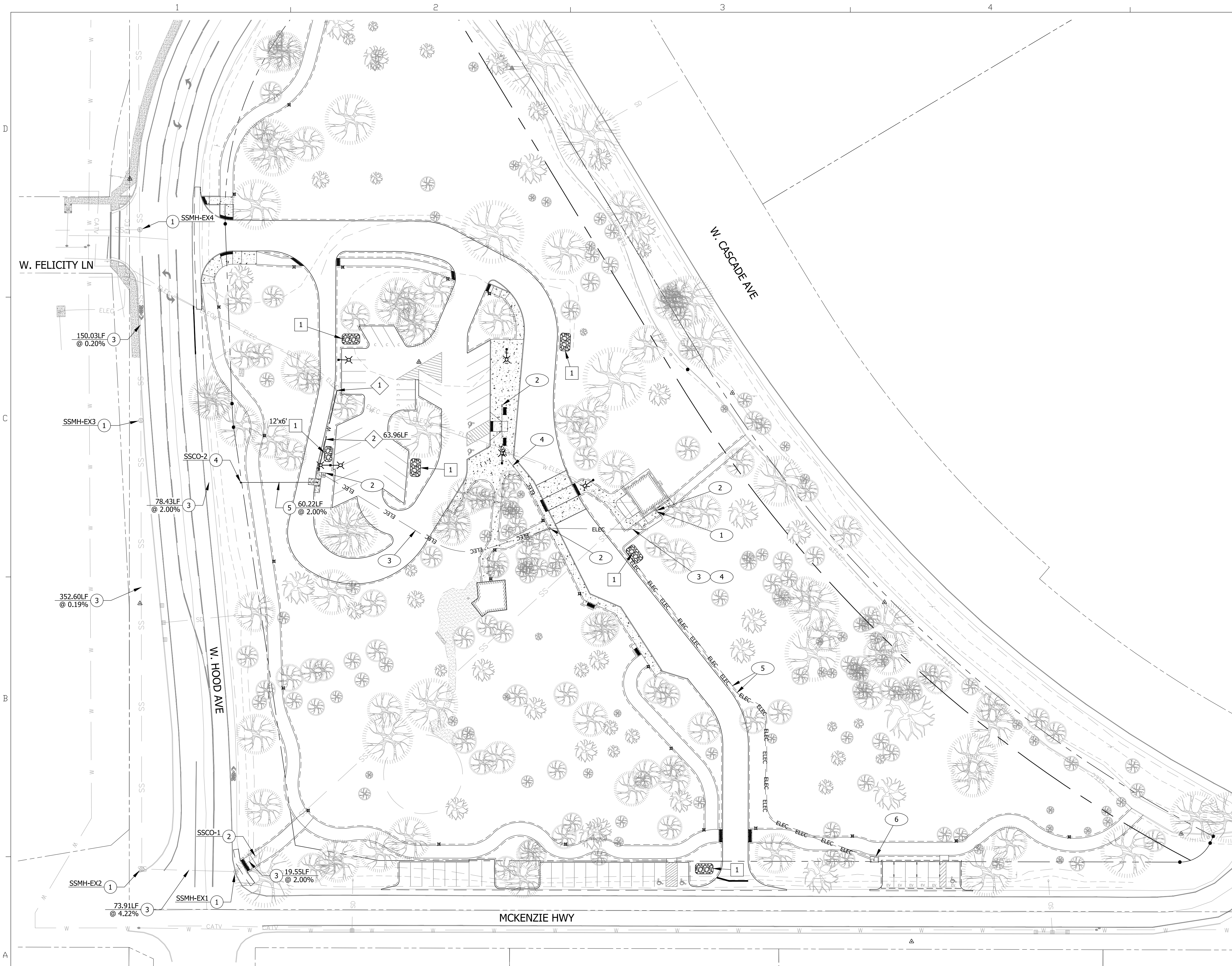
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 CIVIL  
 OR. REG. NO. 23781  
 EXPIRES: 12/31/24

DESIGN: RPM  
 DRAFTED: CCT/ATW  
 CHECKED: AMR  
 DATE: June 2024

**CITY OF SISTERS**  
EST. 1946

**Grading Details**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME: Grading Details  
 SHEET: C3.3



**SANITARY SEWER CONSTRUCTION NOTES**

- 1 EXISTING SANITARY SEWER MANHOLE, PROTECT IN PLACE
- 2 EXISTING SANITARY SEWER CLEANOUT, ADJUST FRAME AND COVER TO FINISHED GRADE
- 3 EXISTING SANITARY SEWER PIPE, LENGTH AND SLOPE PER PLAN
- 4 CONNECT TO EXISTING 6" SANITARY SEWER STUB, INSTALL 6" SANITARY SEWER CLEANOUT PER STRUCTURE DATE TABLE ON THIS SHEET AND CITY OF SISTERS STANDARD DETAIL 3-7 ON SHEET C5.0
- 5 INSTALL 6" PVC SANITARY SEWER PIPE BEDDING AND BACKFILL PER CITY OF SISTERS STANDARD DETAIL 1-1 ON SHEET C5.0

**SANITARY SEWER MANHOLE DATA**

SSMH-EX1  
RIM = 3190.28  
IE IN (6" NE) = 3181.38  
IE OUT (8" W) = 3181.38

SSMH-EX2  
RIM = 3189.86  
IE IN (8" E) = 3178.26  
IE OUT (12" N) = 3178.26

SSMH-EX3\*  
RIM = 3186.46  
IE IN (12" S) = 3177.57  
IE OUT (12" N) = 3177.57

SSMH-EX4  
RIM = 3186.18  
IE IN (12" S) = 3177.28  
IE IN (8" W) = 3177.28  
IE OUT (12" N) = 3177.28

**SANITARY SEWER CLEANOUT DATA**

SSCO-EX1  
RIM = 3189.95  
IE IN (6" NE) = 3181.77  
IE OUT (6" SW) = 3181.77

SSCO-2  
RIM = 3184.31  
IE IN (6" E) = 3179.24  
IE OUT (6" W) = 3179.24

\*INVERT NOT SURVEYED, CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION

**WATER CONSTRUCTION NOTES**

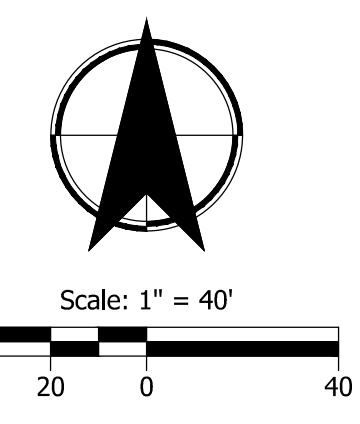
- 1 CONNECT TO EXISTING 2" DOMESTIC WATER SERVICE WITH A 2"x2" TEE AND 2" BALL VALVE ISOLATION IN BOX PER CURRENT PLUMBING CODE. NOTIFY THE CITY PROJECT MANAGER A MINIMUM OF TWO (2) WORKING DAYS BEFORE WATER SHUT-OFF IS NEEDED
- 2 INSTALL 2" PEX, SERVICE LINE. CUT AND CAPPED MARKED WITH 2x4, MINIMUM 36" COVER, BEDDING AND BACKFILL PER CITY OF SISTERS STANDARD DETAIL 1-1 ON SHEET C5.0

**STORM DRAINAGE CONSTRUCTION NOTES**

- 1 CONSTRUCT INFILTRATION BASIN, SEE GRADING PLAN FOR TOP OF DRAIN ROCK ELEVATION, SEE DETAIL 4 ON SHEET C5.2

**ELECTRICAL CONSTRUCTION NOTES**

- 1 INSTALL 20 AMP CIRCUIT TO PROPOSED DUMP STATION. CONDUIT LOCATION SHOWN IS APPROXIMATE ONLY. FINAL LOCATION TO BE DETERMINED IN THE FIELD AND APPROVED BY THE INSPECTOR. VERIFY EXISTING SERVICE PANEL CAN ACCOMMODATE DUMP STATION. PROVIDE PROPOSED BUILDING ENTRANCE PLAN FOR CONDUIT AND OBTAIN APPROVAL FROM CITY PRIOR TO INSTALLATION. CONDUIT ENTRY MUST MEET BUILDING AESTHETICS.
- 2 INSTALL JUNCTION BOX.
- 3 INSTALL 2" CONDUIT WITH POLY PULL LINE FOR 20 AMP CIRCUIT TO DUMP STATION.
- 4 INSTALL 2" SPARE CONDUIT WITH POLY PULL LINE.
- 5 INSTALL (2) 3" CONDUIT WITH POLY PULL LINE FOR ELECTRICAL SERVICE TO FUTURE EV CHARGING.
- 6 INSTALL 644 VAULT.

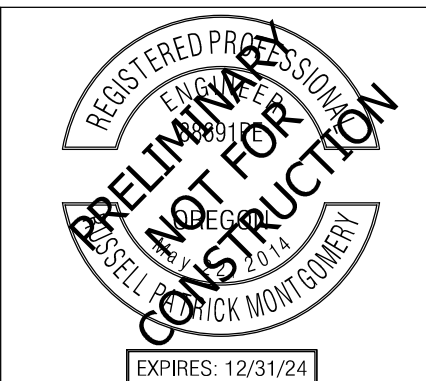


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

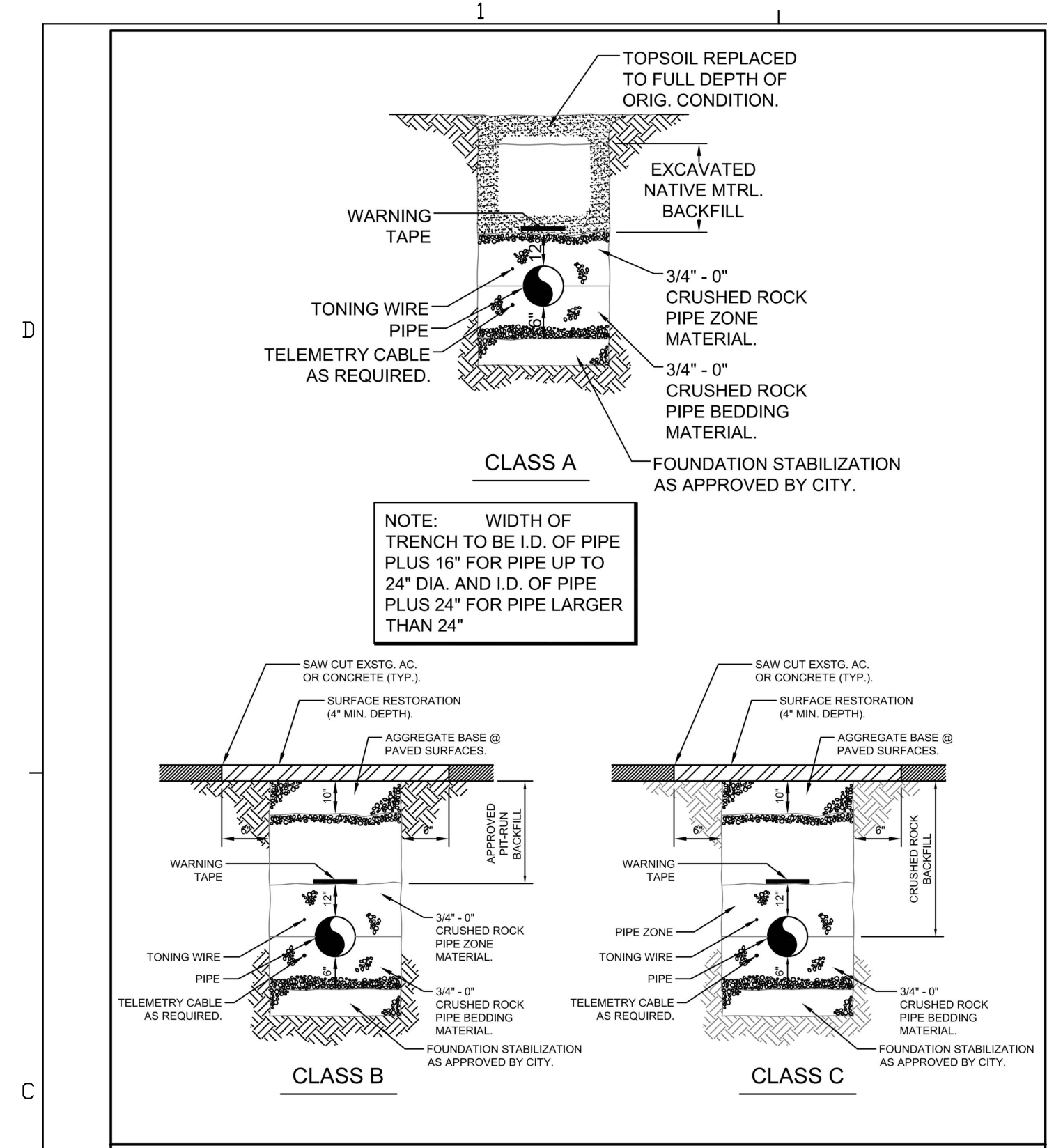


SCALE AS SHOWN

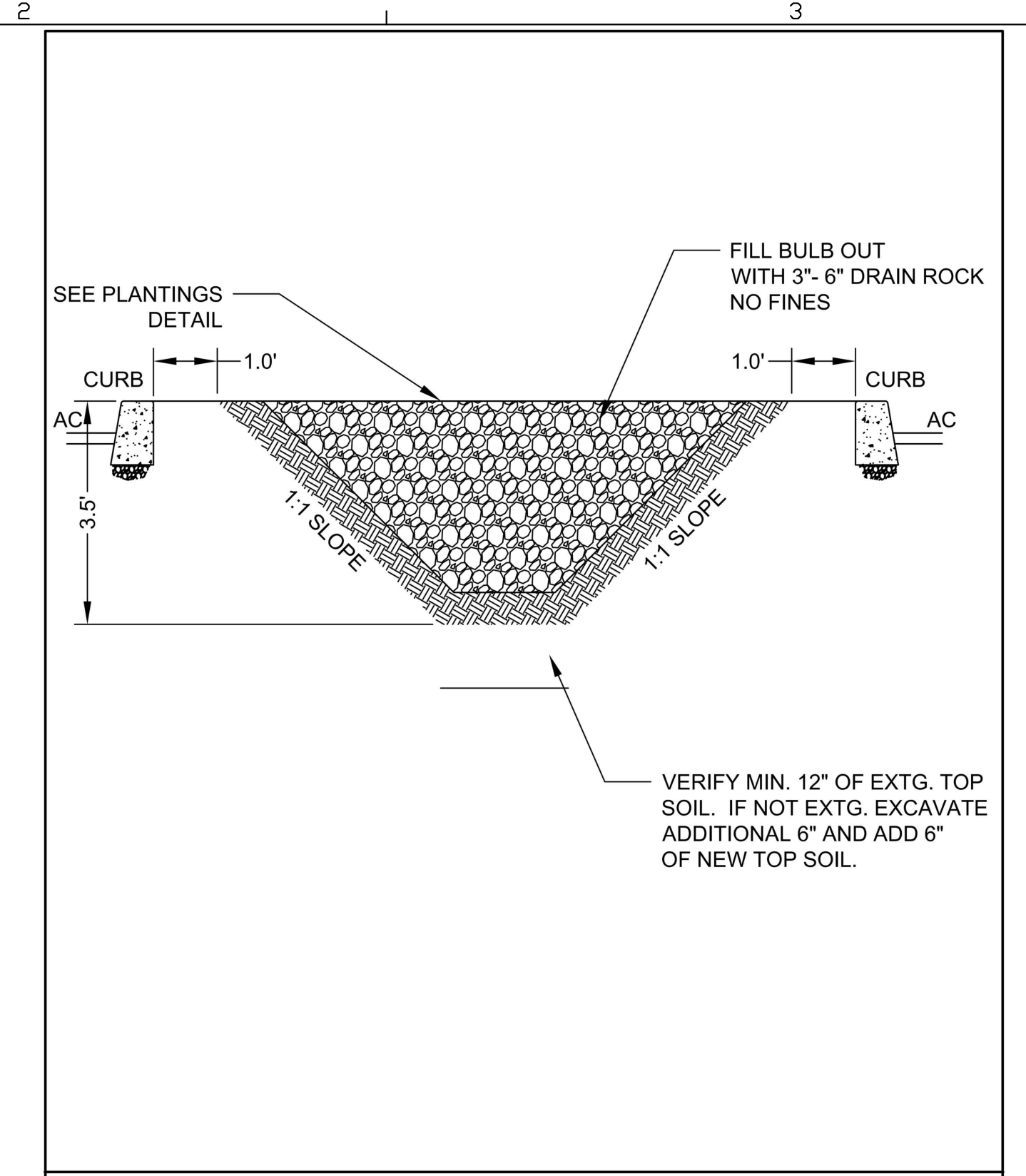
DRAWING NAME  
**Composite Utility Plan**

SHEET  
**C4.0**

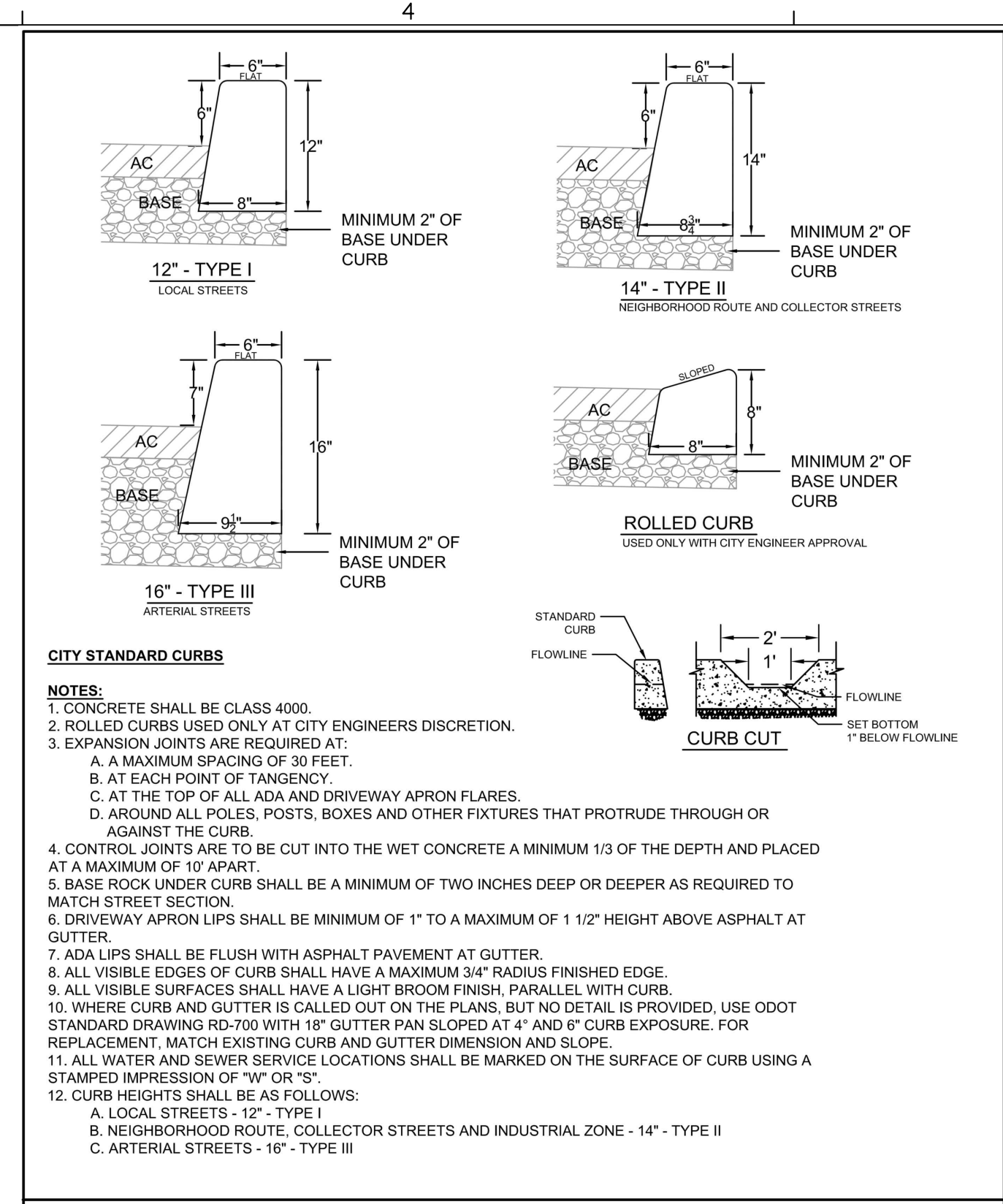
EAST PORTAL MOBILITY HUB IMPROVEMENTS



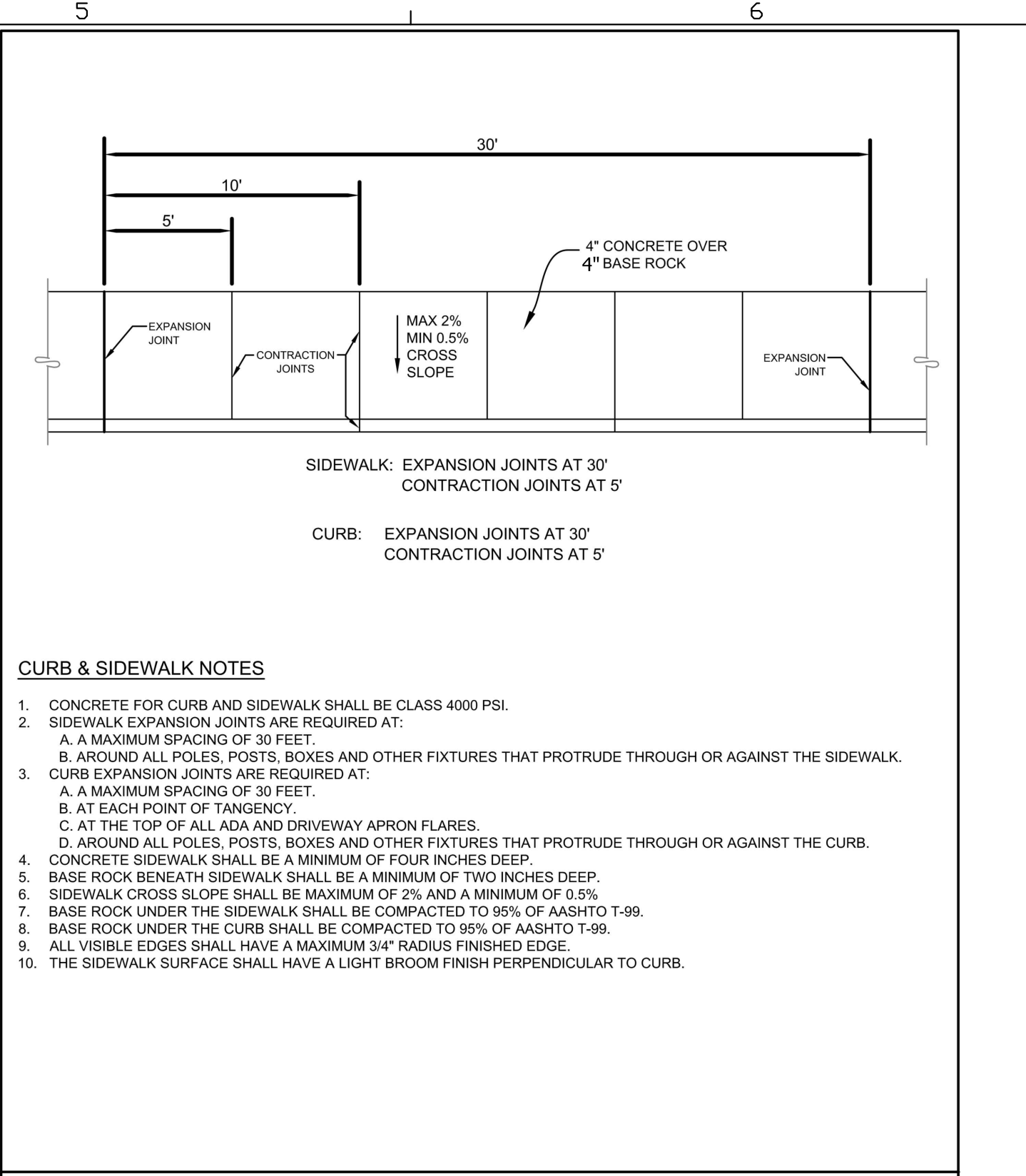
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	STANDARD TRENCHES	APPROVED BY: PB	REVISION DATE: 2/10/2020



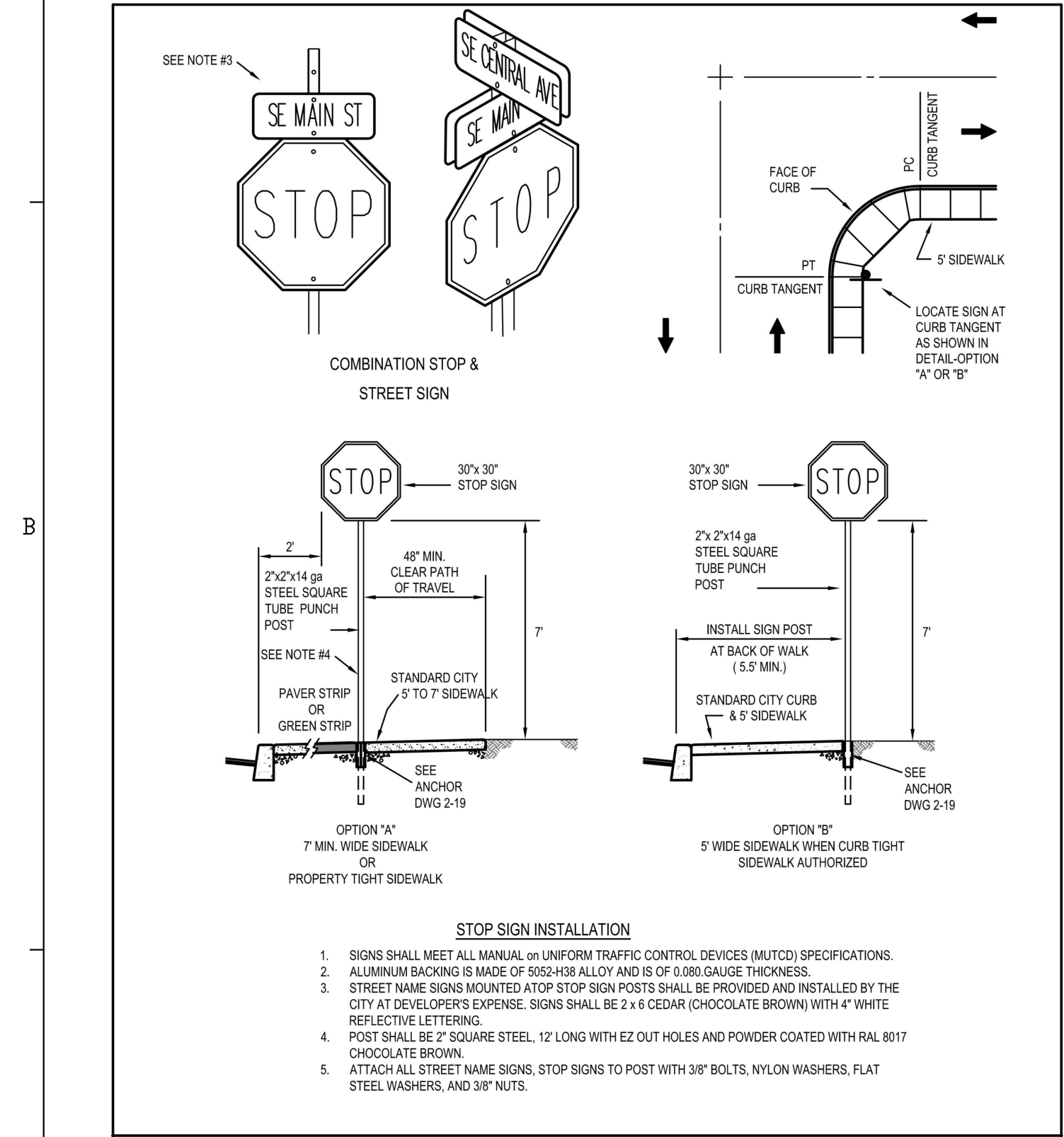
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	TYPICAL BULB OUT SWALE DETAIL	APPROVED BY: PB	REVISION DATE: 2/10/2020



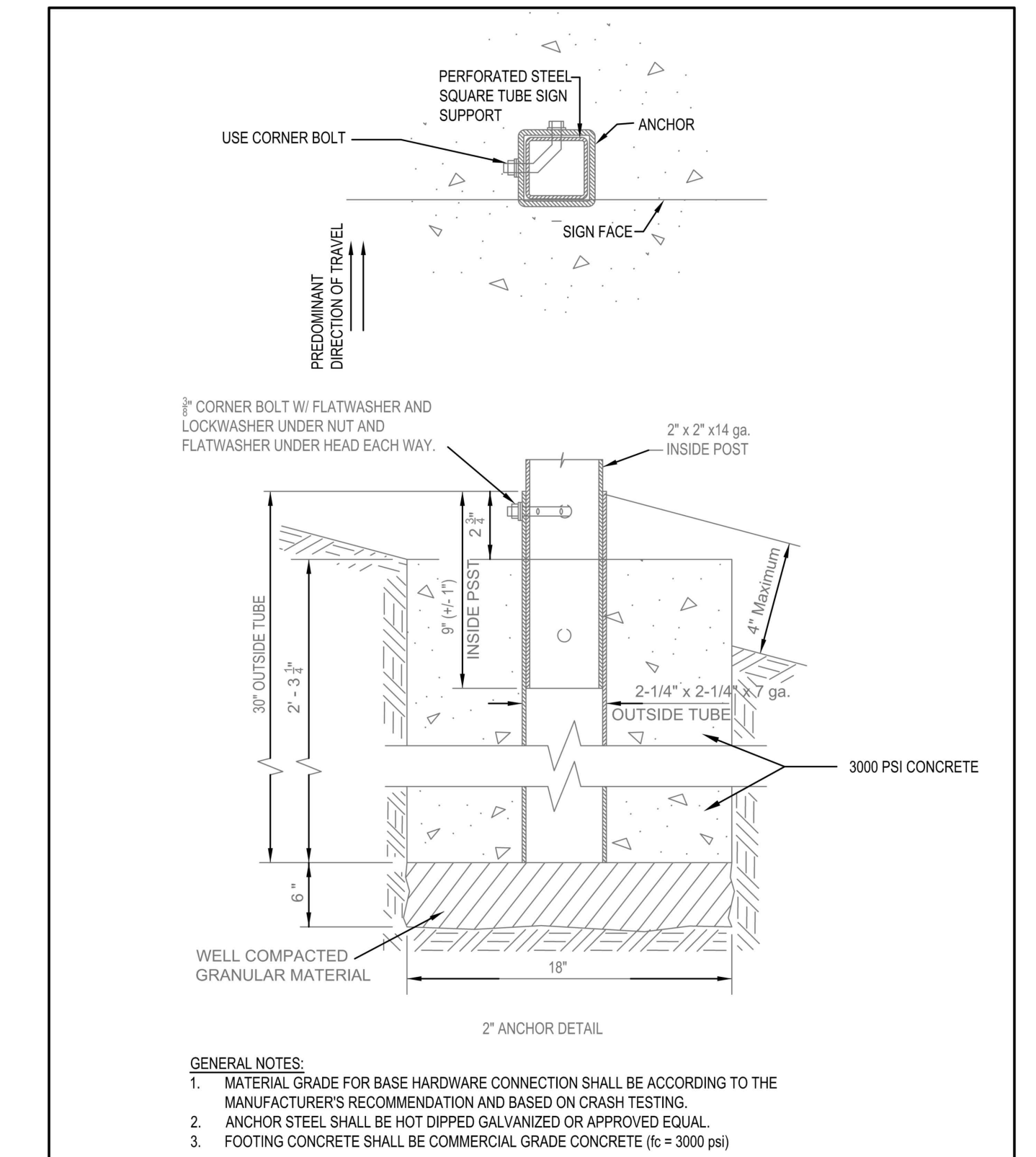
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	STANDARD PCC CURB AND GUTTER SECTION	APPROVED BY: PB	REVISION DATE: 2/10/2020



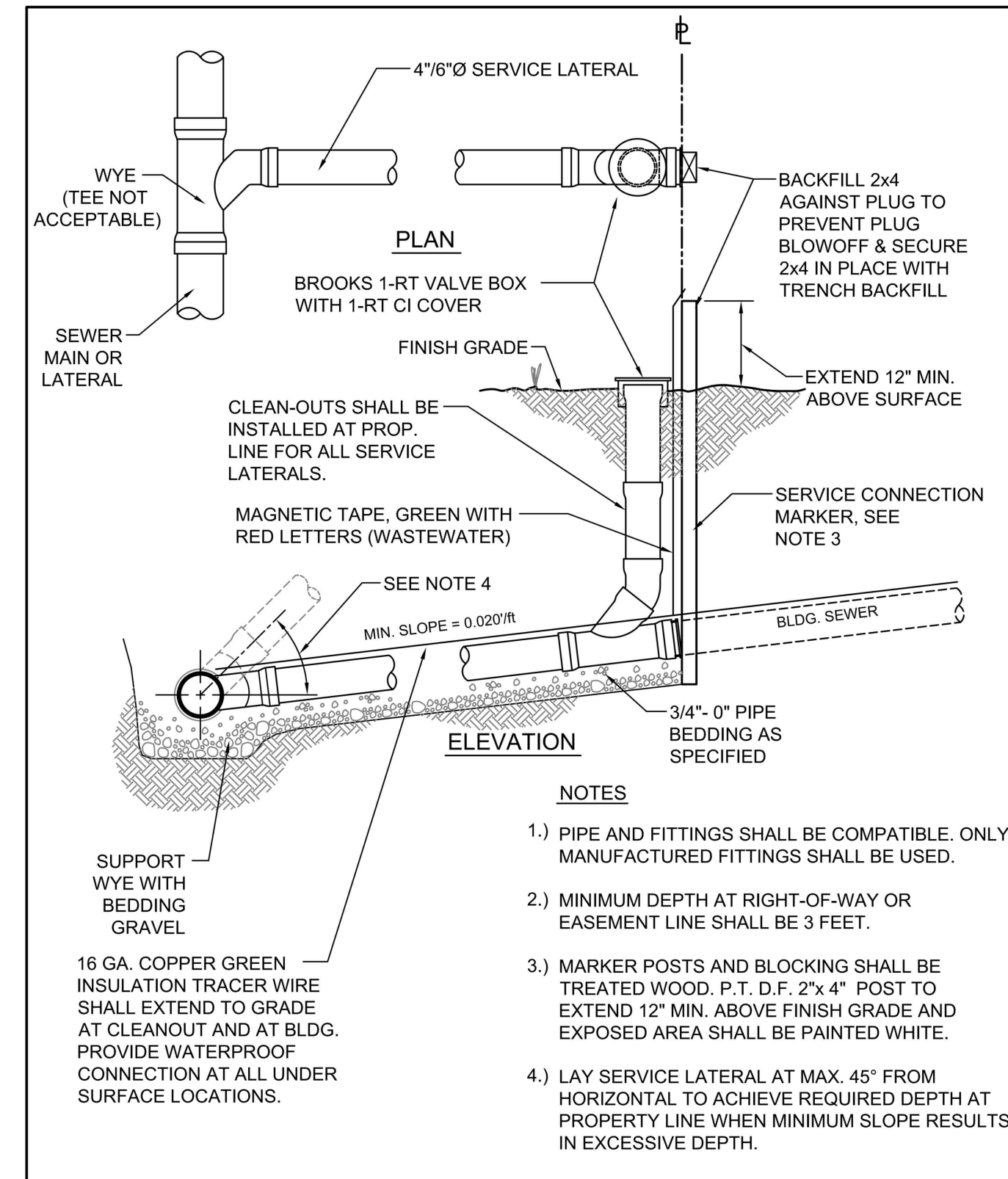
	<b>City of Sisters • Standard Detail</b>	SCALE: NONE	MODIFIED DRAWING NO. 2-12
	EXPANSION AND CONTRACTION JOINT DETAIL	APPROVED BY: PB	REVISION DATE: 2/10/2020



	<b>City of Sisters • Standard Detail</b>	SCALE: NONE	DRAWING NO. 2-20
	TYPICAL STOP AND STREET SIGN COMBINATION	APPROVED BY: PB	REVISION DATE: 2/10/2020



	<b>City of Sisters • Standard Detail</b>	SCALE: NONE	DRAWING NO. 2-21
	TYPICAL STREET SIGN ANCHOR	APPROVED BY: PB	REVISION DATE: 2/10/2020



	<b>City of Sisters • Standard Detail</b>	SCALE: NONE	DRAWING NO. 3-7
	SERVICE LATERAL	APPROVED BY: PB	REVISION DATE: 2/10/2020

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:	

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF OREGON  
 NO. 12345  
 EXPIRES: 12/31/24

DESIGN: RPM  
 DRAFTED: CCT/ATW  
 CHECKED: AMR  
 DATE: June 2024

SCALE: AS SHOWN  
 DRAWING NAME: City of Sisters Standard Details  
 SHEET: EAST PORTAL MOBILITY HUB IMPROVEMENTS  
**C5.0**



D  
C  
B  
A

1

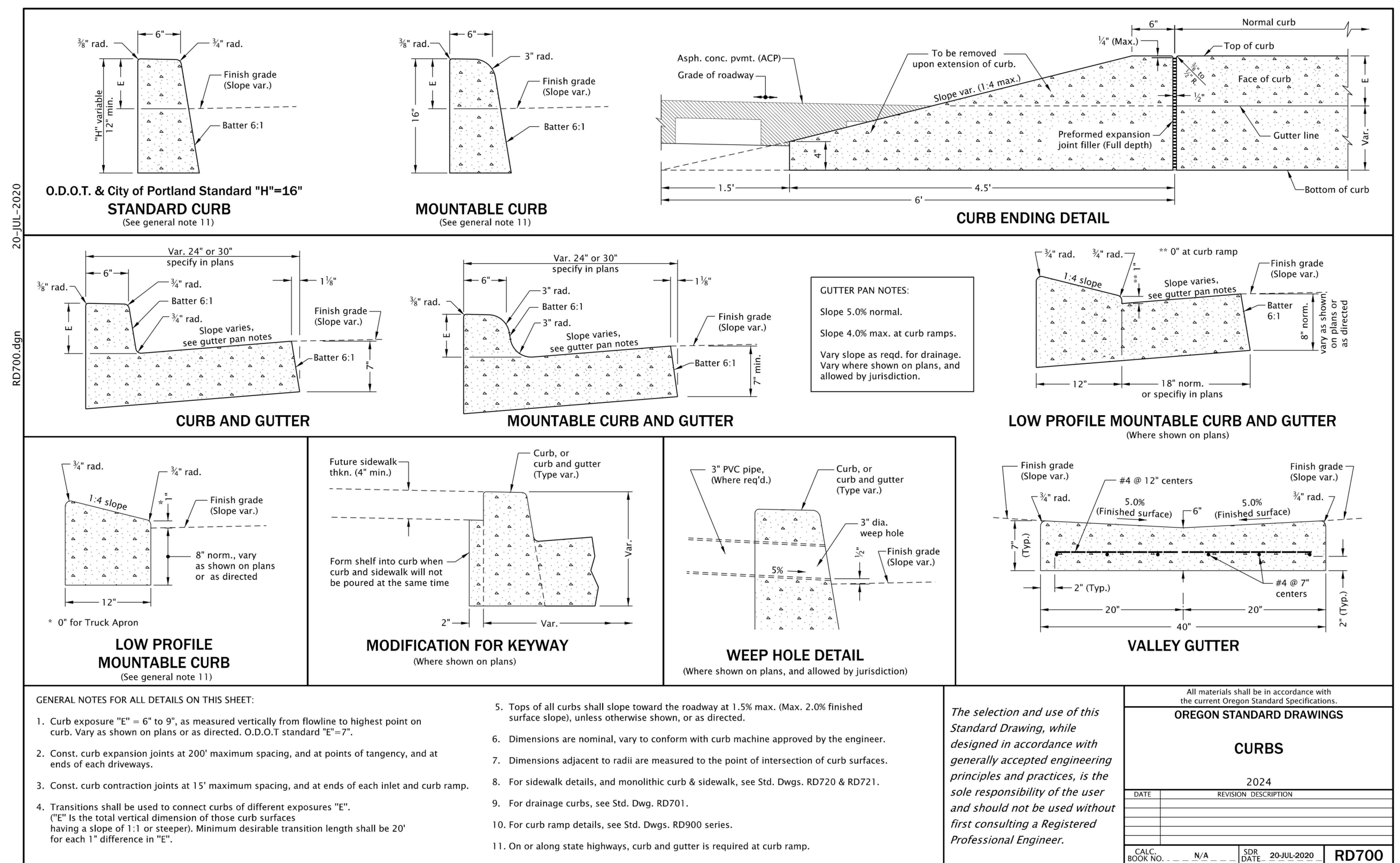
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3

4

5

6



RD700.dgn 20-JUL-2020

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
 DANIEL M. WICK  
 CIVIL ENGINEER  
 LICENSE NO. 2014  
 EXPIRES: 12/31/24

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

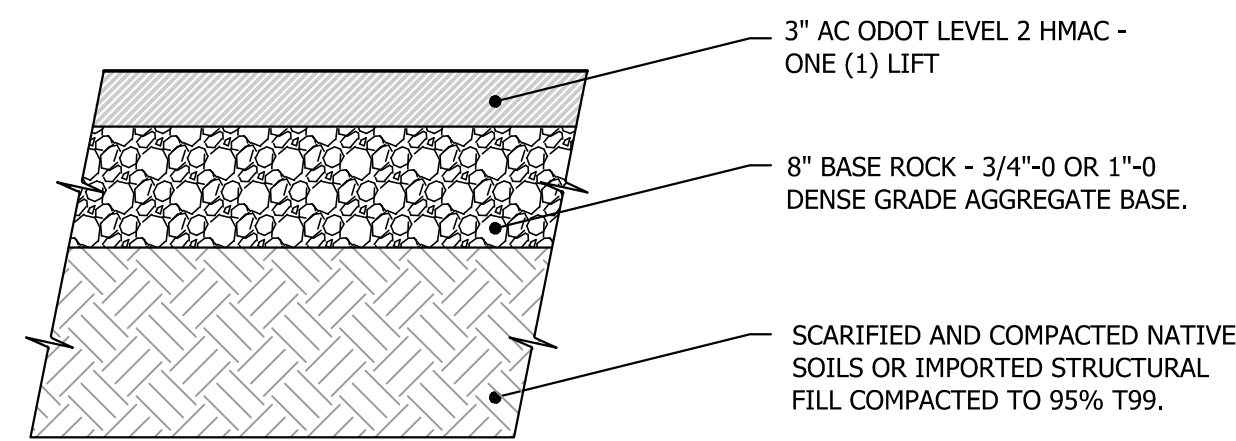
**CITY OF SISTERS**  
EST. 1946

SCALE: AS SHOWN

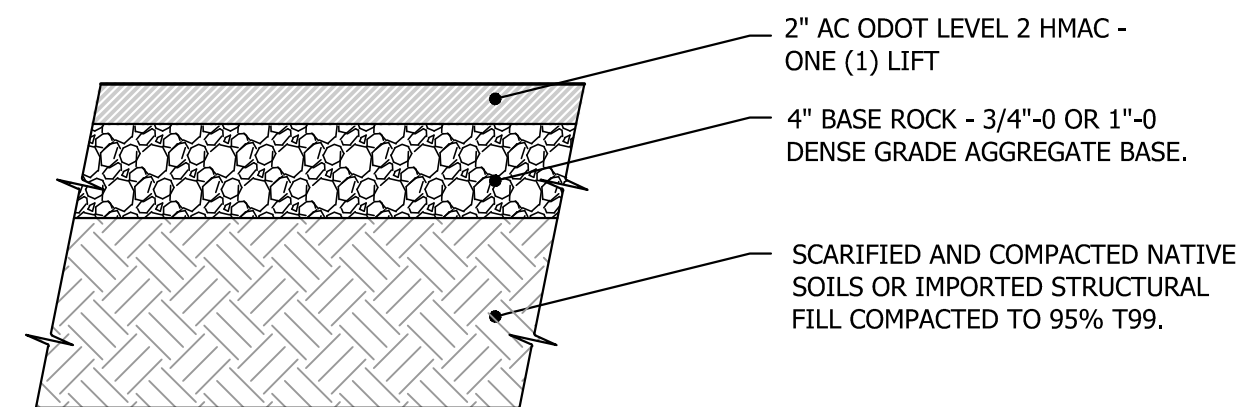
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SHEET: EAST PORTAL MOBILITY HUB IMPROVEMENTS

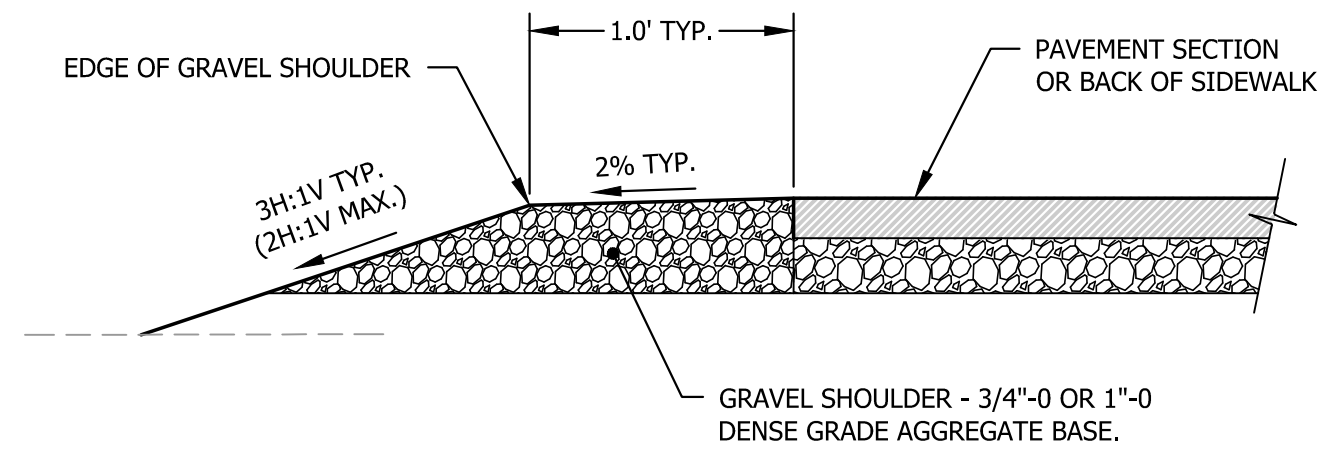
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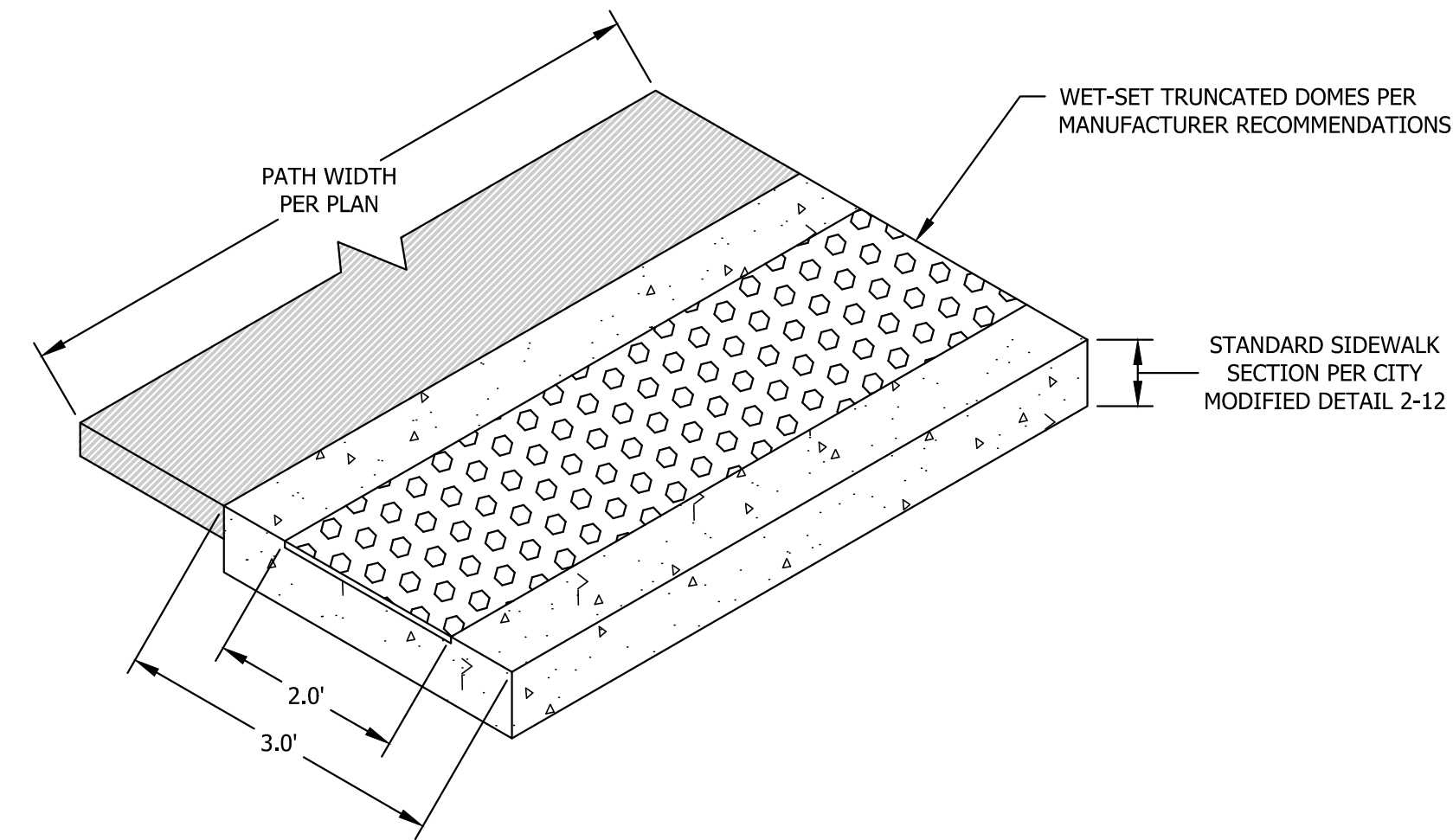
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TYPICAL A.C. PAVEMENT STRUCTURAL SECTION  
NOT TO SCALE



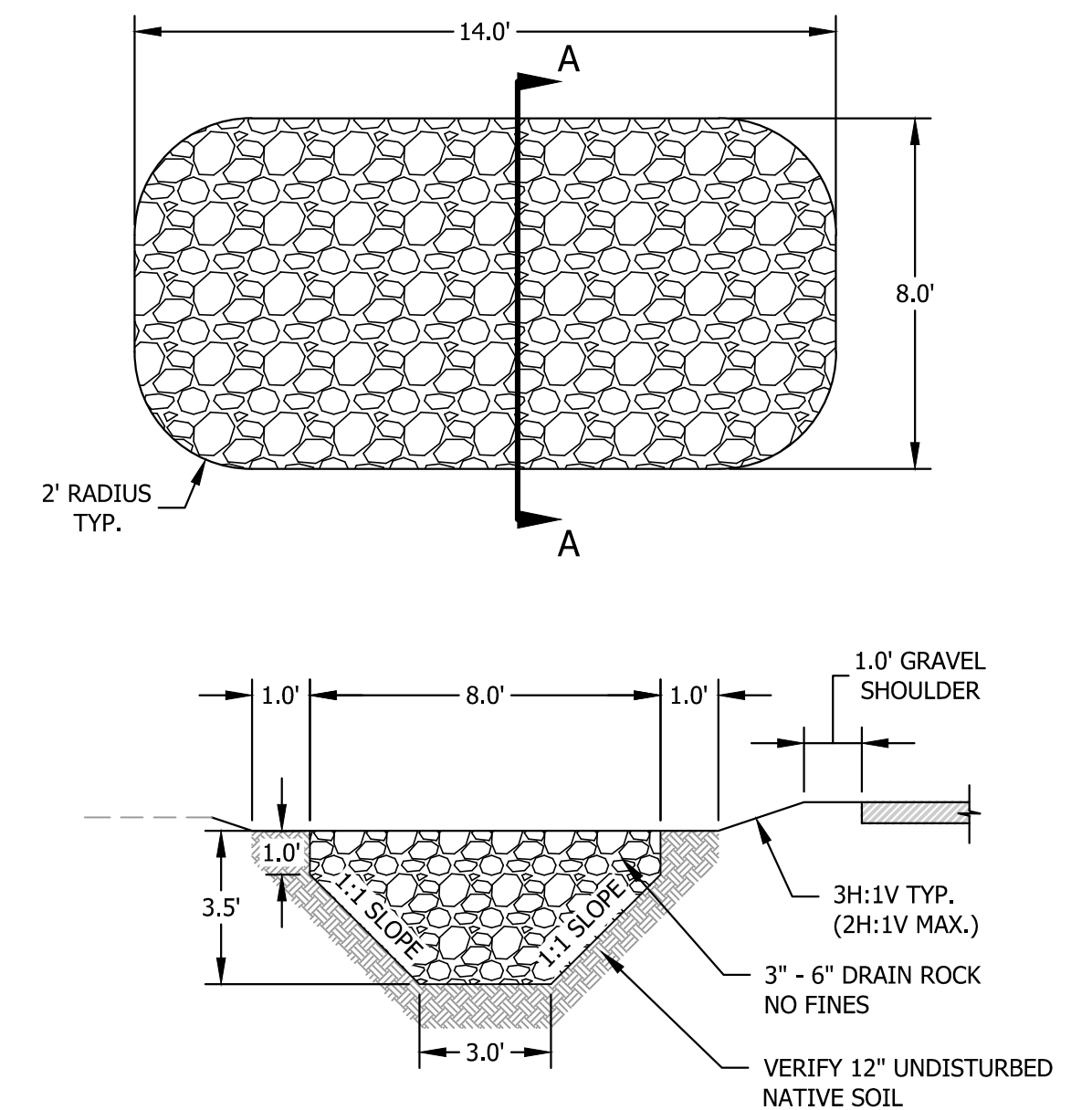
**MULTI-USE PATH PAVING SECTION**  
TYPICAL A.C. PAVEMENT STRUCTURAL SECTION  
NOT TO SCALE



**2 COMPACTED GRAVEL SHOULDER DETAIL**  
SCALE: NOT TO SCALE

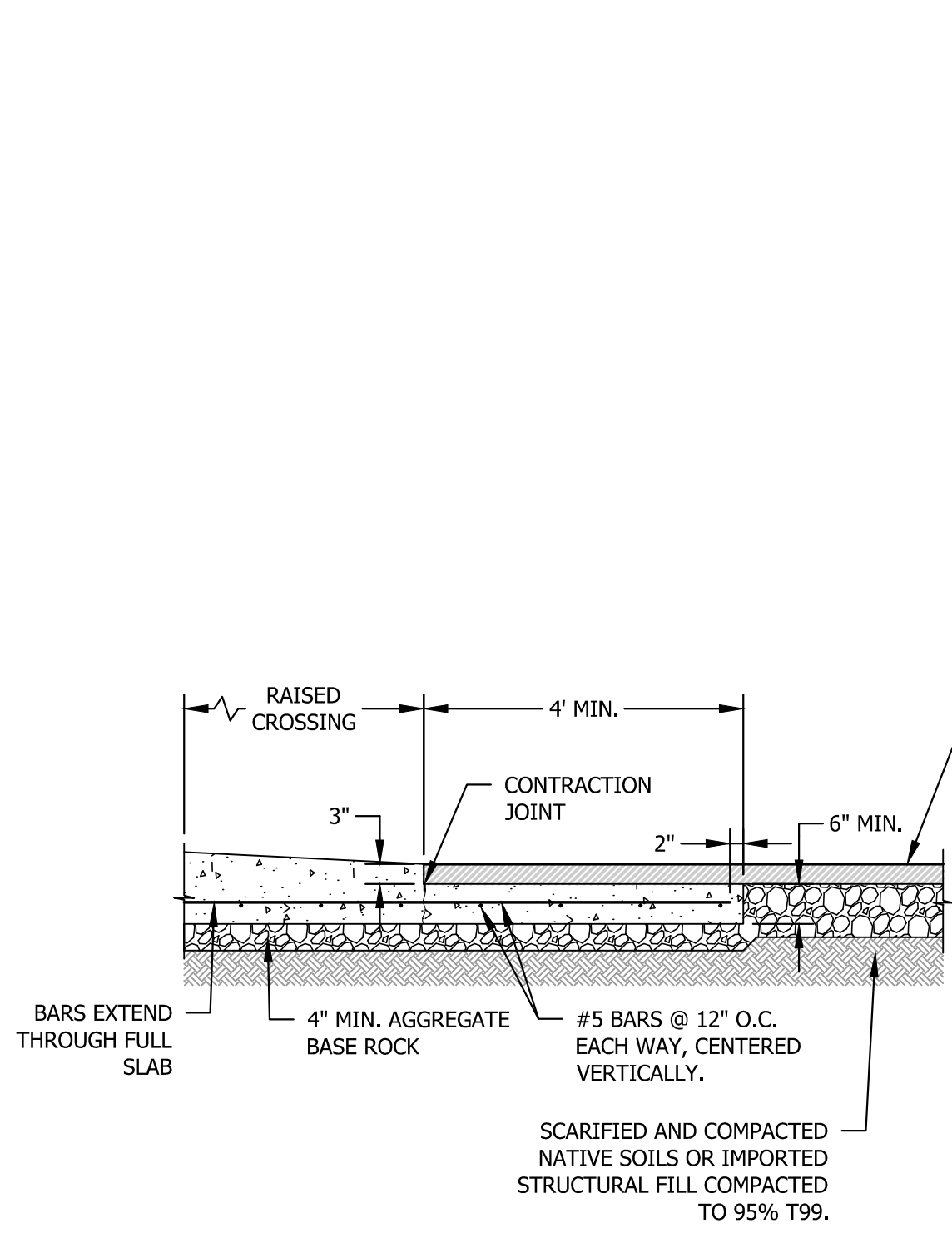


**3 TRUNCATED DOMES AT MULTI-USE PATH CROSSING**  
SCALE: NOT TO SCALE

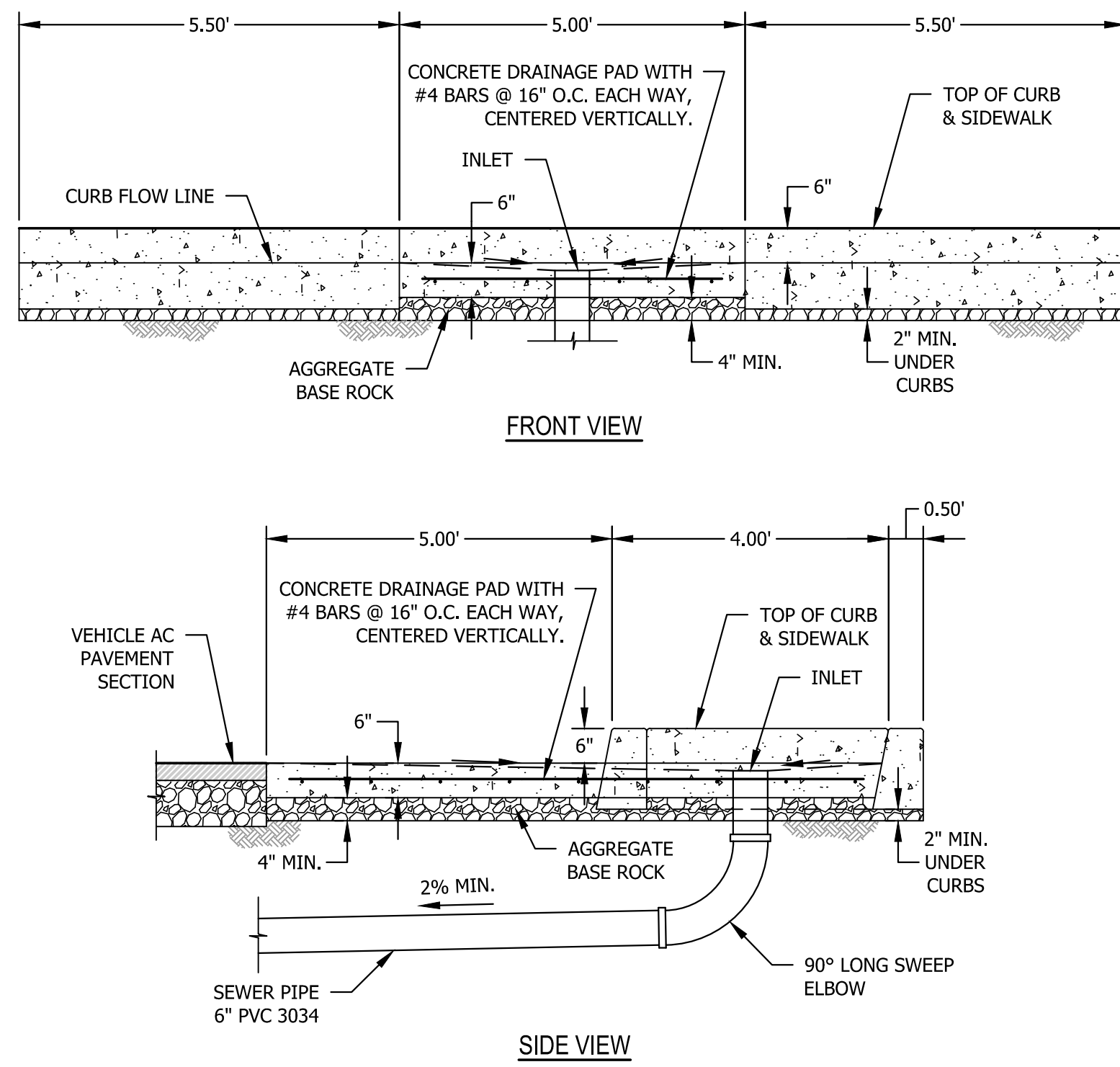


**4 INFILTRATION BASIN DETAIL**  
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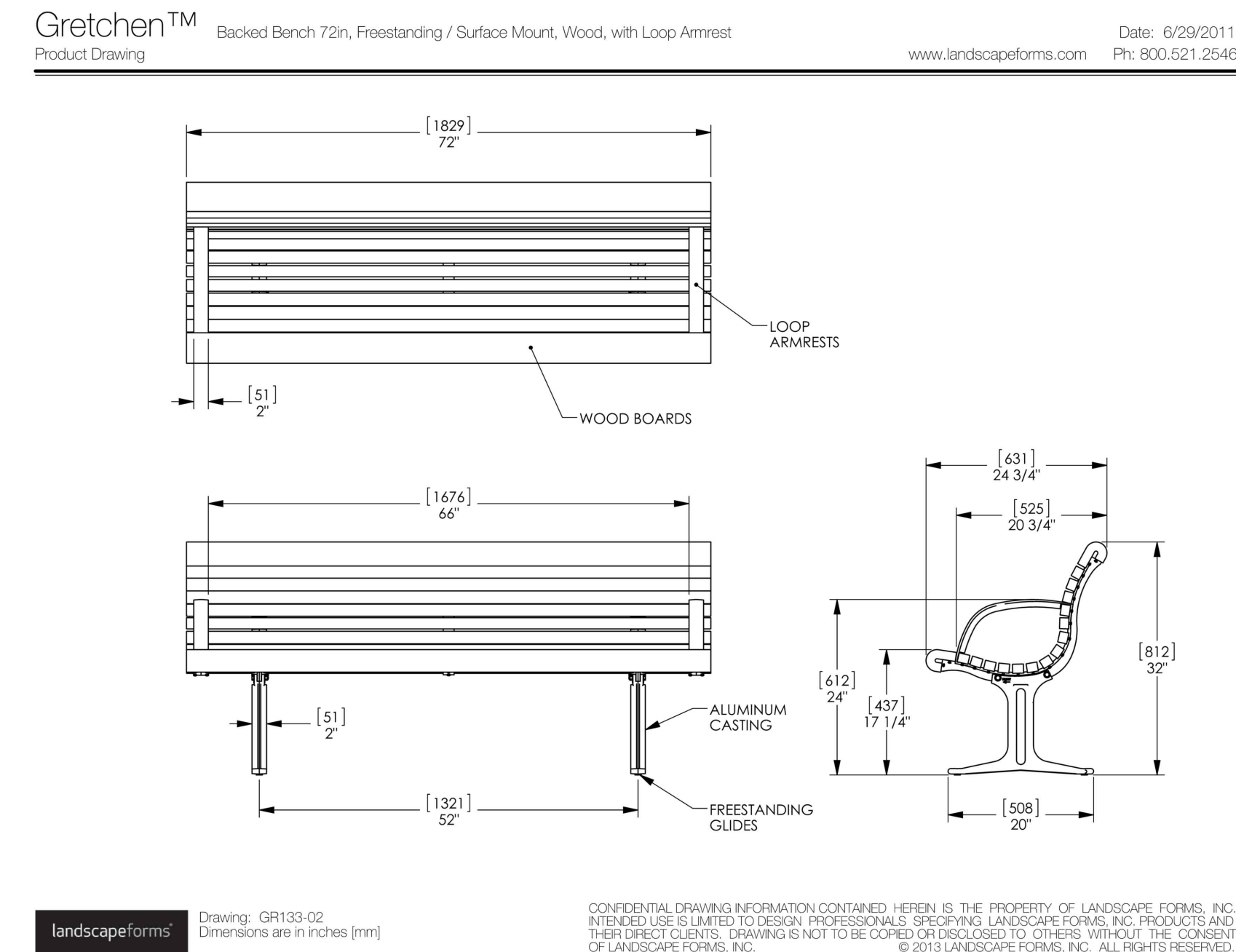
**1 ASPHALT CONCRETE PAVEMENT SECTIONS**  
SCALE: NOT TO SCALE



**5 CONCRETE IMPACT SLAB DETAIL**  
SCALE: NOT TO SCALE



**6 RV DUMP STATION DETAIL**  
SCALE: NOT TO SCALE



landscapiforms Drawing: GR133-02 Dimensions are in inches (mm)  
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**HUNTCO** Bike racks, lockers, benches and architectural site furnishings since 1982. PHONE 503.224.8700 FAX 503.274.2655 EMAIL Sales@Huntco.com WEB Huntco.com Twitter @HuntcoSupply MAIL P.O. Box 10885 Portland, OR 97296-0885

**THE STAPLE**  
The ever-classic "Staple" style bike rack is Portland City Code approved. Lock it up!

**CONSTRUCTION/MATERIAL OPTIONS**  
 ✓ 2" Sch. 40 Round Steel Pipe (Round)  
 1.5" Sch. 40 Round Steel Pipe  
 2" x 2" Square Steel Tubing (Pipecutter Proof)  
 5/8" x 2 1/2" Steel Flat Bar (Pipecutter Proof)  
 - Steel Flanges (Varies)  
 - Custom Size Height/Length

**DIMENSIONS**  
 - 30" Length  
 - 5.5" Width  
 - 36" Height  
 - Custom Size Height/Length

**MOUNTING OPTIONS**  
 ✓ Flange Mount (Shown)  
 (6) .63" Mounting Holes  
 In-Ground  
 11" Leg Extensions

**FINISH OPTIONS**  
 ✓ 304 Stainless Steel #4 Satin Finish  
 316 Stainless Steel #4 Satin Finish (available at additional cost)  
 Hot Dipped Galvanized  
 Powder Coating  
 Thermoplastic Coating

**ADDITIONAL OPTIONS**  
 Flange Cover (available at addtl. cost, round pipe only)

**RECOMMENDED LAYOUT**  
 NOTES:  
 \*Bike" is 70"  
 # Minimum Spacing  
 (F) Recommended Spacing

**CONTRACTOR:**  
**JOB:**  
**NOTES:**

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

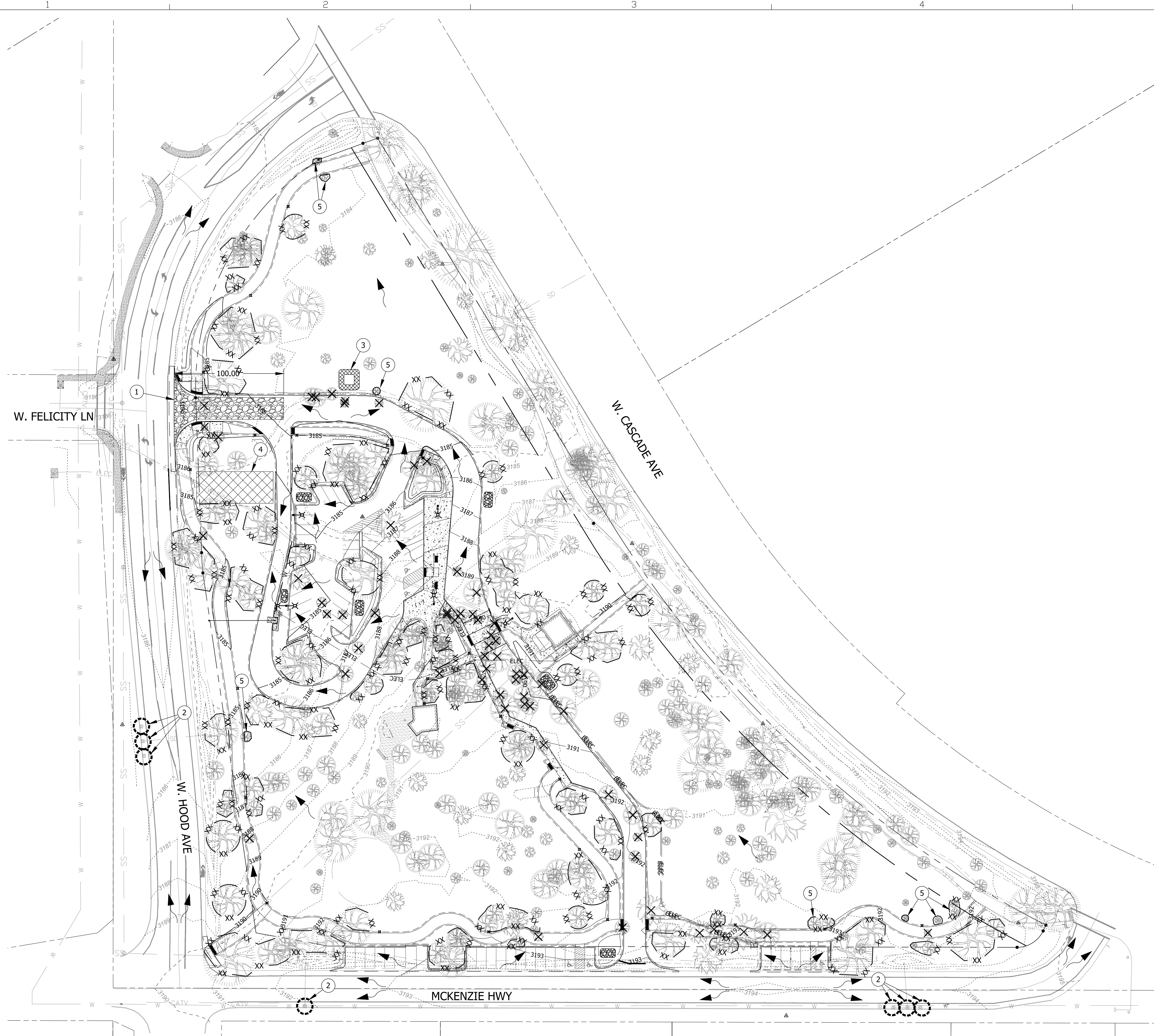
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 PRELIMINARY NOT FOR CONSTRUCTION  
 EXPIRES: 12/31/24

DESIGN: RPM  
 DRAFTED: CCT/ATW  
 CHECKED: AMR  
 DATE: June 2024

**CITY OF SISTERS**  
EST. 1946

**Details**  
EAST PORTAL MOBILITY HUB IMPROVEMENTS

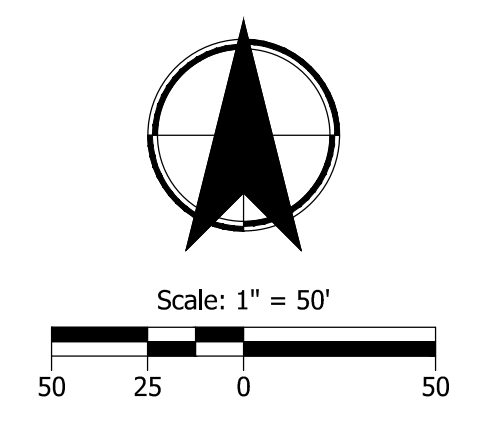
SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: **C5.2**



**LEGEND**

- Existing Right of Way Line
- Dedicated Right of Way Line
- Existing Property Line
- Existing Minor Contour
- Existing Major Contour
- Proposed Minor Contour
- Proposed Major Contour
- Proposed Tree Protection Fence
- Flow Arrow
- Extg./Proposed Manhole
- Extg./Proposed Catch Basin
- Inlet Protection
- Construction Entrance
- Staging Area
- Concrete Wash Out Facility
- Trees to Remain
- Tree to be Removed. Timber Greater Than 6" DBH to be Left Onsite for Owner or Donation to Charity. Contractor to Coordinate with Owner or City Selected Charity for Pickup.

- EROSION CONTROL CONSTRUCTION NOTES**
- 1 INSTALL CONSTRUCTION ENTRANCE TYPE 1, SEE ODOT STD. DWG. RD1000 ON SHEET EC-2.
  - 2 INSTALL TYPE 3 INLET PROTECTION, SEE ODOT STD. DWG. RD1010 ON SHEET EC-2.
  - 3 INSTALL MINIMUM 10'x10'x2' DEEP CONCRETE TRUCK WASH OUT AREA. LOCATION MAY VARY, GRADE AS NEEDED TO CONTAIN CONC. WASTE MATERIAL. CONTRACTOR TO DISPOSE OF WASTE AND RESTORE WASH OUT AS NEEDED. DO NOT DISPOSE OF WASTE WATER INTO STORM DRAIN SYSTEM. SEE ODOT STD. DWG. RD1070 ON SHEET EC-2.
  - 4 CONTRACTOR TO LOCATE A SPECIFIED AREA FOR STAGING, EQUIPMENT MAINTENANCE, PORT-A-POTTY, FUELING, AND SOLID WASTE. STAGING AREA TO INCLUDE HAZARDOUS WASTE MANAGEMENT AND SPILL KIT AVAILABLE AT ALL TIMES.
  - 5 INSTALL 4' TALL PLASTIC ORANGE SAFETY FENCE FOR TREE PROTECTION.

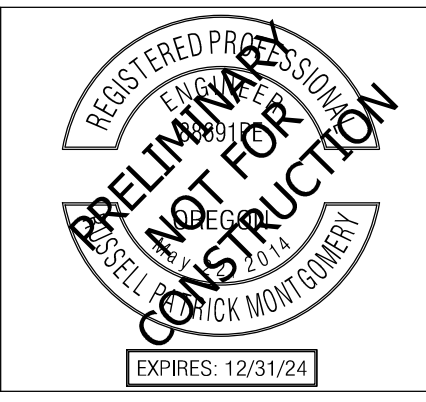


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



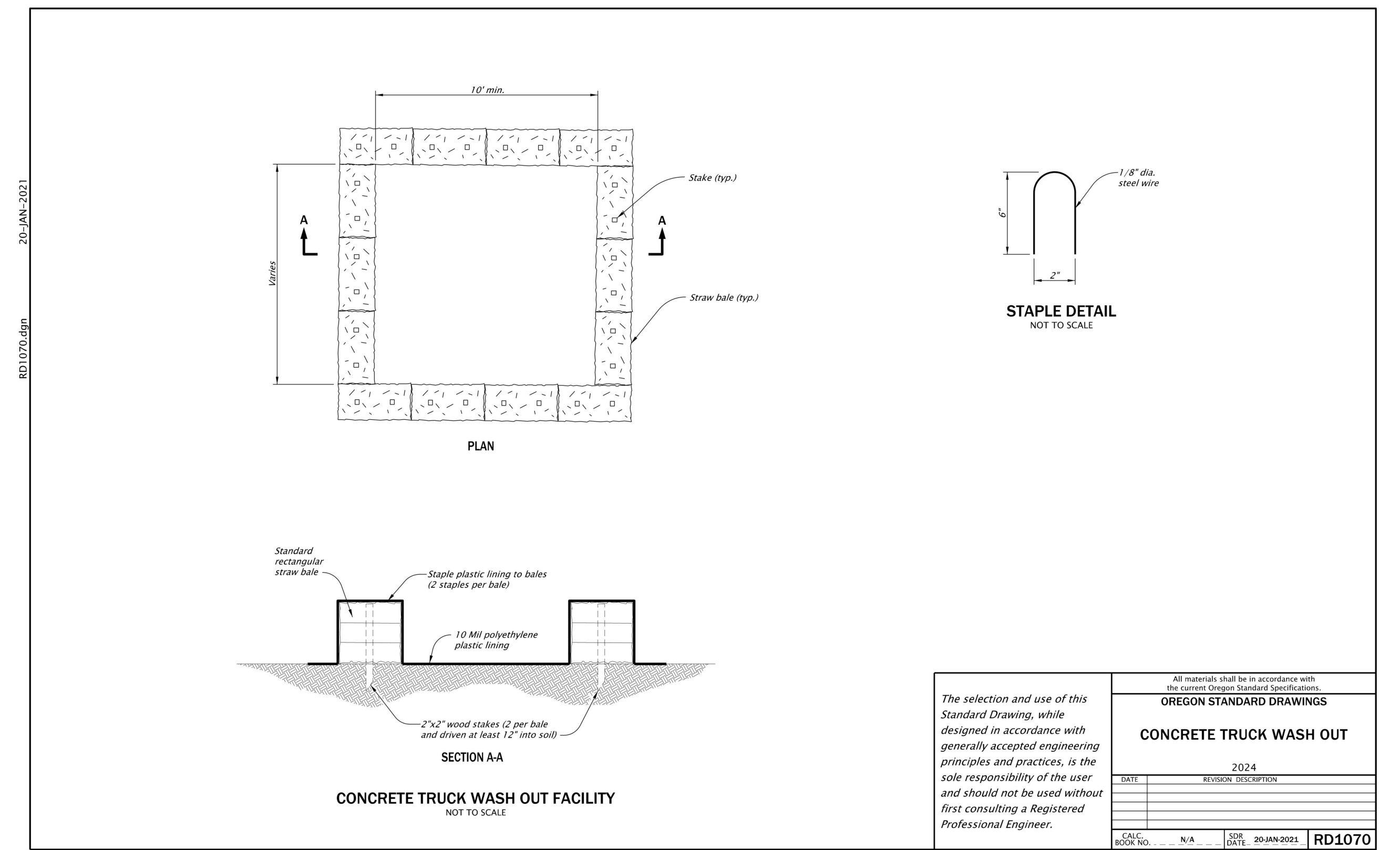
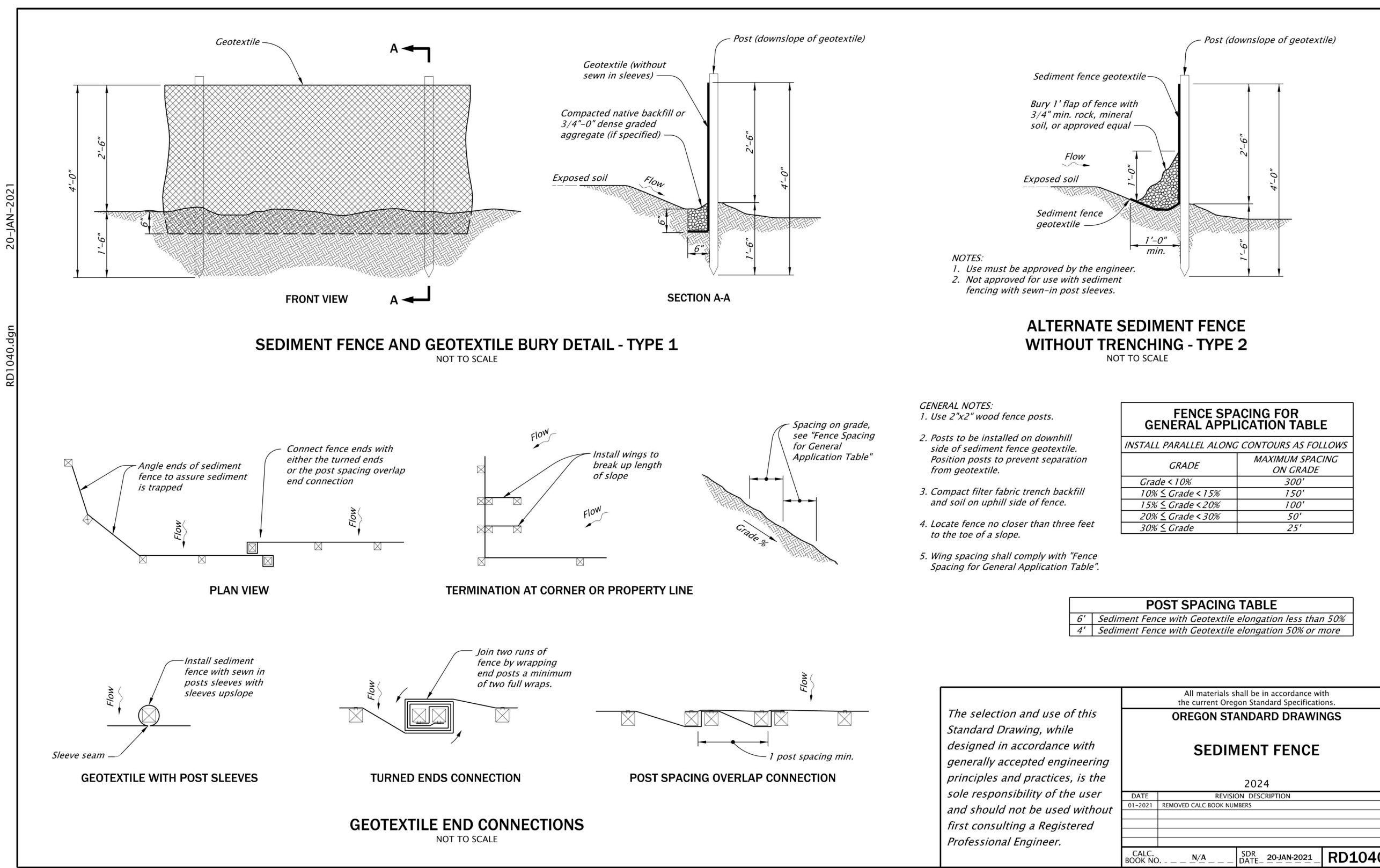
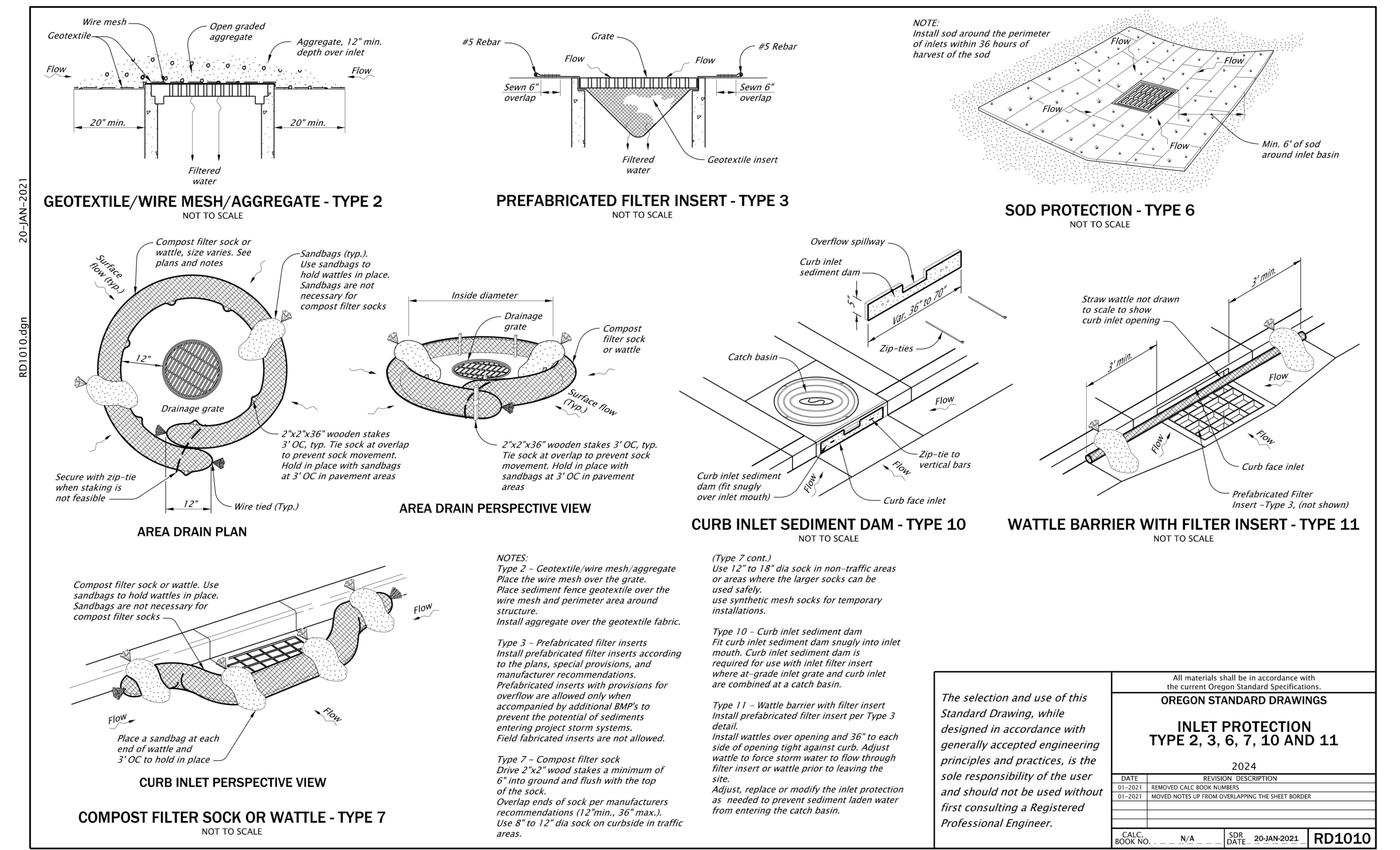
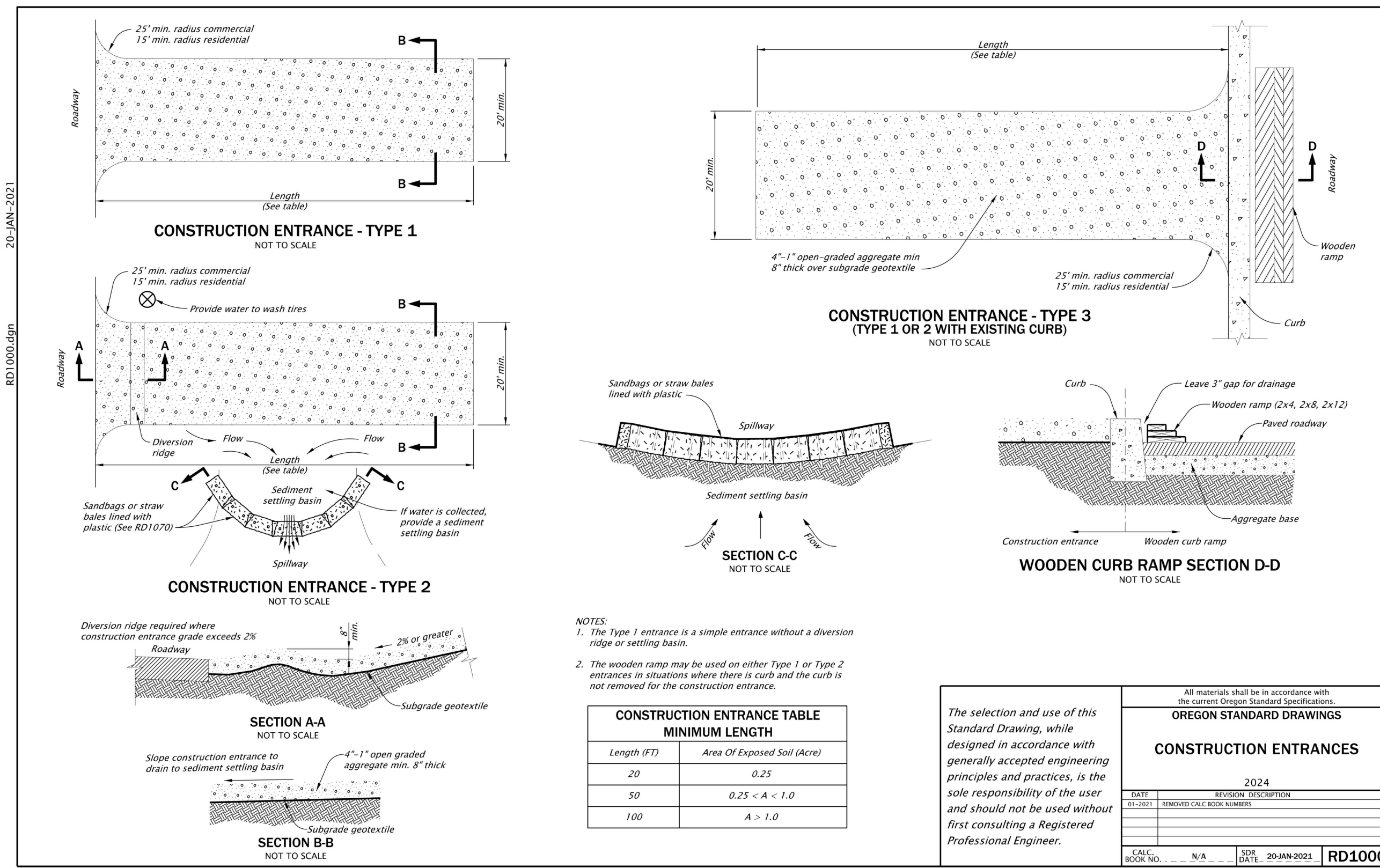
DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Erosion & Sediment Control Plan**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE AS SHOWN  
 DRAWING NAME  
 SHEET **EC-1**



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

NO.	DESCRIPTION

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
PRELIMINARY DESIGN  
NOT FOR CONSTRUCTION  
CASSIELL MONTGOMERY  
EXPIRES: 12/31/24

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

**CITY OF SISTERS**  
EST. 1946

**Erosion & Sediment Control Details**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	EC-2

**STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:**

- Once known, include a list of all contractors that will engage in construction activities on site, and the areas of the site where the contractor(s) will engage in construction activities. Revise the list as appropriate until permit coverage is terminated (Section 4.4.c.i). In addition, include a list of all personnel (by name and position) that are responsible for the design, installation and maintenance of stormwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section 4.4.c.ii)
- Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)
- Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)
- Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)
- The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)
- The ESCP must be accurate and reflect site conditions. (Section 4.8)
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)
- Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)
- Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)
- Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)
- Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)
- Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)
- Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Sections 2.1.3)
- Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and streambanks. (Sections 2.1.1. and 2.2.16)
- Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)
- Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads.(Sections 2.2.20 and 2.2.21)
- Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)
- Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)
- Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land- disturbing activities. (Section 2.2.7)
- When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)
- Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)
- Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)
- Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)
- Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Sections 2.2.15 and 2.3)
- Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)
- If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)
- Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)
- Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)
- Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)
- The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)
- If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Section 1.2.9)
- Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Section 2.2)
- As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)
- Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Section 2.1.5.c)
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)
- Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)
- The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19)
- Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar days. (Section 6.5.f.)
- Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)
- Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained soils must be removed and disposed of properly, unless needed for long term use following termination of permit coverage. (Section 2.2.21)

**BMP MATRIX FOR CONSTRUCTION PHASES**

Refer to DEQ Guidance Manual for a comprehensive list of available BMP's

	CLEARING	MASS GRADING	UTILITY INSTALLATION	CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
<b>EROSION PREVENTION</b>						
PRESERVE NATURAL VEGETATION	** X	X	X	X	X	X
GROUND COVER					X	X
HYDRAULIC APPLICATIONS						
PLASTIC SHEETING						
MATTING						X
DUST CONTROL	X	X	X	X	X	X
TEMPORARY/ PERMANENT SEEDING***			X	X	X	X
BUFFER ZONE						
OTHER:						
<b>SEDIMENT CONTROL</b>						
SEDIMENT FENCE (PERIMETER)						
SEDIMENT FENCE (INTERIOR)						
STRAW WATTLES						
FILTER BERM						
INLET PROTECTION			X	X	X	X
DEWATERING						
SEDIMENT TRAP						
NATURAL BUFFER ENCROACHMENT						
OTHER:						
<b>RUN OFF CONTROL</b>						
CONSTRUCTION ENTRANCE	X	X	X	X		
OUTLET PROTECTION						
<b>POLLUTION PREVENTION</b>						
PROPER SIGNAGE	X	X	X	X	X	X
HAZ WASTE MGMT	X	X	X	X	X	X
SPILL KIT ON-SITE	X	X	X	X	X	X
CONCRETE WASHOUT AREA				X	X	X
OTHER:						

- \* Signifies additional BMP's required for work within 50' of water of the state.
- \*\* Signifies BMP that will be installed prior to any ground disturbing activity.
- \*\*\* Seed Between April 15 - Oct. 15

**WATER MANAGEMENT AND EROSION CONTROL NOTES**

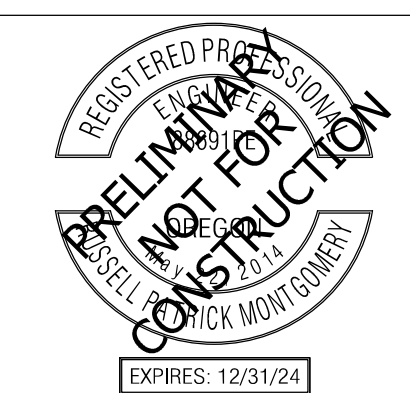
- The Contractor Shall Be Required To Perform Preventive Dust Control Measures To Ensure That Dust Resulting From The Contractor's Performance Of The Work Is Controlled In Conformance With The Standard Specifications And Federal, State, Local, And Permit Requirements.
- The Contractor Shall Be Responsible For Implementing All Temporary Erosion Control Measures. The Erosion Control Measures Shall Be In Accordance With All Federal, State, And Local Requirements. The Contractor Shall Be Responsible For The Maintenance And Performance Of The Temporary Erosion Control Measures Throughout The Duration Of The Project. See Special Provisions Regarding Temporary Erosion Control Facility Removal.
- The Contractor Shall Have An Emergency Spill Kit Onsite At All Times.
- No Native Trees Or Wetland Vegetation Shall Be Removed Unless They Are Shown And Noted To Be Removed On The Plans, Or As Directly Specified On-site By City of Newberg. All Trees Conflicting With Grading Shall Be Trimmed. No Grading Shall Take Place Within The Drip Line Of Trees Not To Be Removed Unless Otherwise Approved.
- Permit Conditions May Contain Specific Requirements For The Control Of Off-site Turbidity From Project Operations. Turbidity Will Be Monitored On A Frequent Basis. Turbidity Amounts In Excess Of The Permitted Amount And/or Durations Will Cause Work To Be Stopped Until Improved Practices Are In Effect And The Problems Controlled. The Contractor Is Completely Responsible For Any Project Delays That Occur By Nature Of This Failure To Adequately Contain Sediment On-site.
- The Contractor Shall Follow Provisions Set Forth In The Project Permits, And Install BMP's To Control Sediment And Minimize Disturbance To Existing Vegetation.
- The Plans May Show Construction Sequencing. These Are Provided To The Contractor For Consideration. Contractor Is To Use This Plan Or Develop A New Plan For The Engineer's Approval.

**EQUIPMENT NOTES**

- All External Grease And Oil Shall Be Pressure-washed Off The Equipment Prior To Transport To The Site. All Equipment Shall Use Vegetable Oil Hydraulic Fluid.
- The Contractor Shall Use Only Designated Specific Sites For Storage Of Equipment And Materials As Shown On These Plans. The Contractor Shall Be Responsible For The Security Of All Equipment And Materials.
- The Contractor Is Responsible To Ensure That No Petroleum Products, Hydraulic Fluid, Sediments, Sediment-laden Water, Chemicals, Or Any Other Toxic Or Deleterious Materials Are Allowed To Enter Or Leach Into The River.
- Equipment Shall Be Checked Daily For Leaks, And Any Necessary Repairs Shall Be Completed Prior To Commencing Work Activities Along The River, Groundwater Or Wetlands.

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:



DESIGN	RPM
DRAFTED	CCT/IATW
CHECKED	AMR
DATE	June 2024

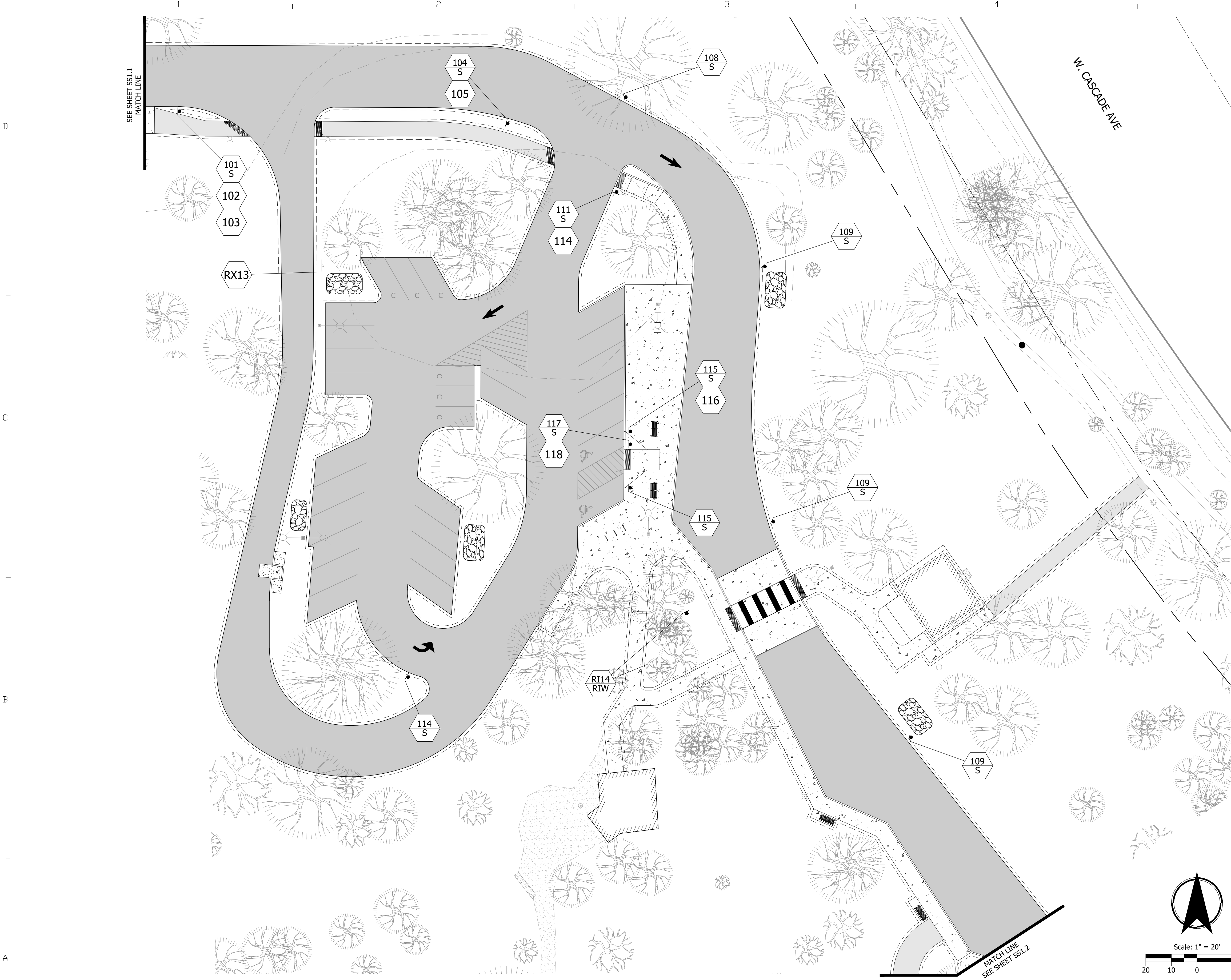


**Erosion & Sediment Control  
General Notes**










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EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	<b>EC-3</b>



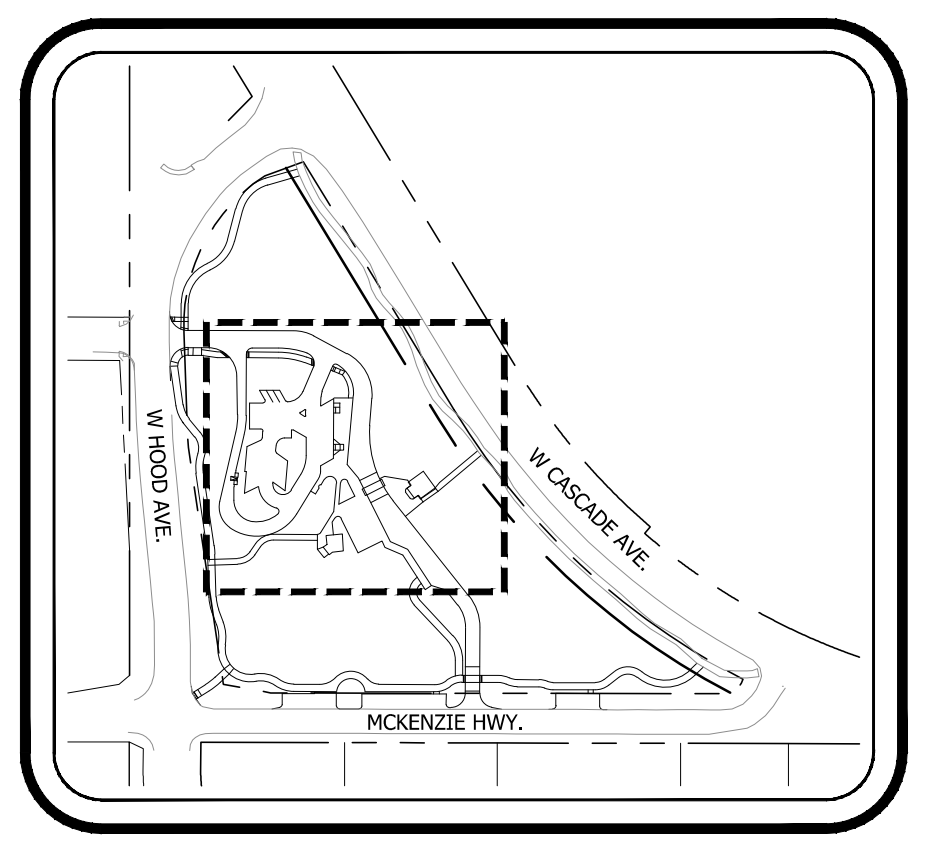
**SIGNING LEGEND**

-  Install new sign (N).
-  Install new sign (N) on new (M) sign support.
-  Remove existing sign (N)
-  Reinstall existing sign (N)
-  Retain and protect existing sign (N) and support
-  Remove and save existing sign (N) and remove (M) sign support
-  Reinstall existing sign (N) on new (M) sign support
-  Remove and save existing sign (N) and (M) sign support
-  Reinstall existing sign (N) and (M) sign support

N = Sign number (See Sheets SS2.0 & SS2.1)  
M = Material options are:  
S = Perforated steel square tube sign support  
W = Wood post

**SIGNING GENERAL NOTES**

1. All signing shall conform to the requirements and specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition, the 2024 Oregon Standard Specifications for Construction, and Current City of Sisters Road Standards.
2. The locations of sign installations shown are approximate, with final locations to be determined in the field.
3. Existing signs not shown are to remain in place unless otherwise directed by the City.



**KEY MAP**  
SCALE: NTS

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

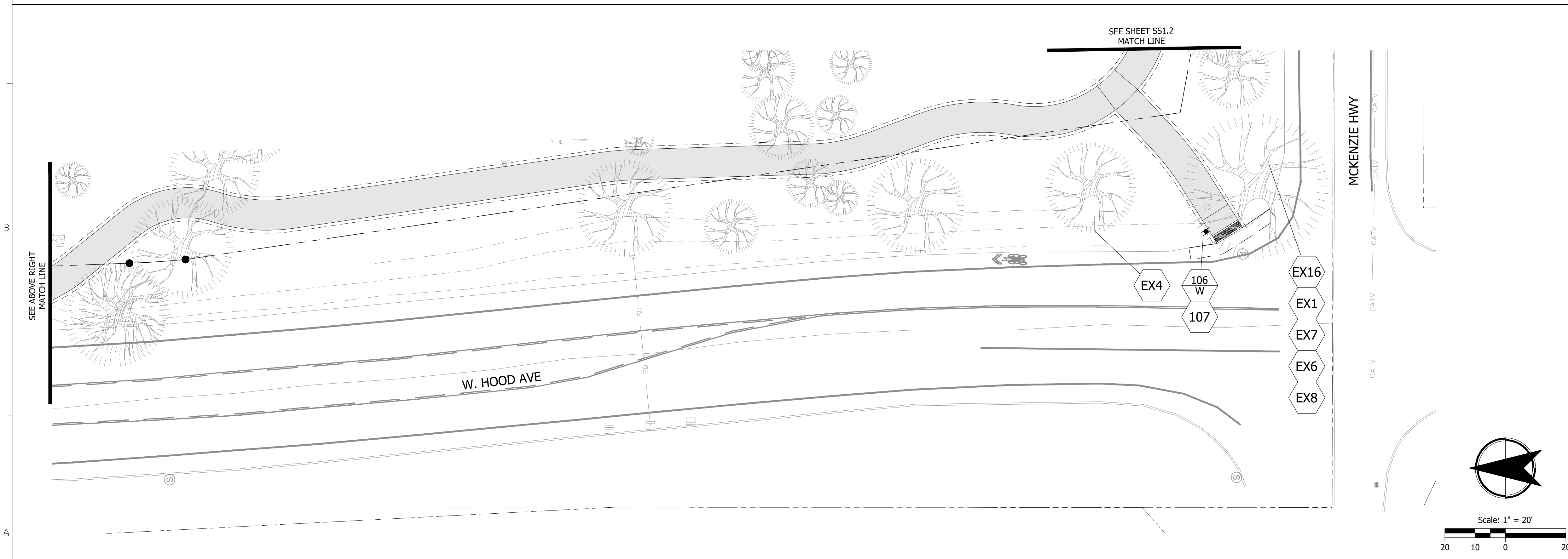
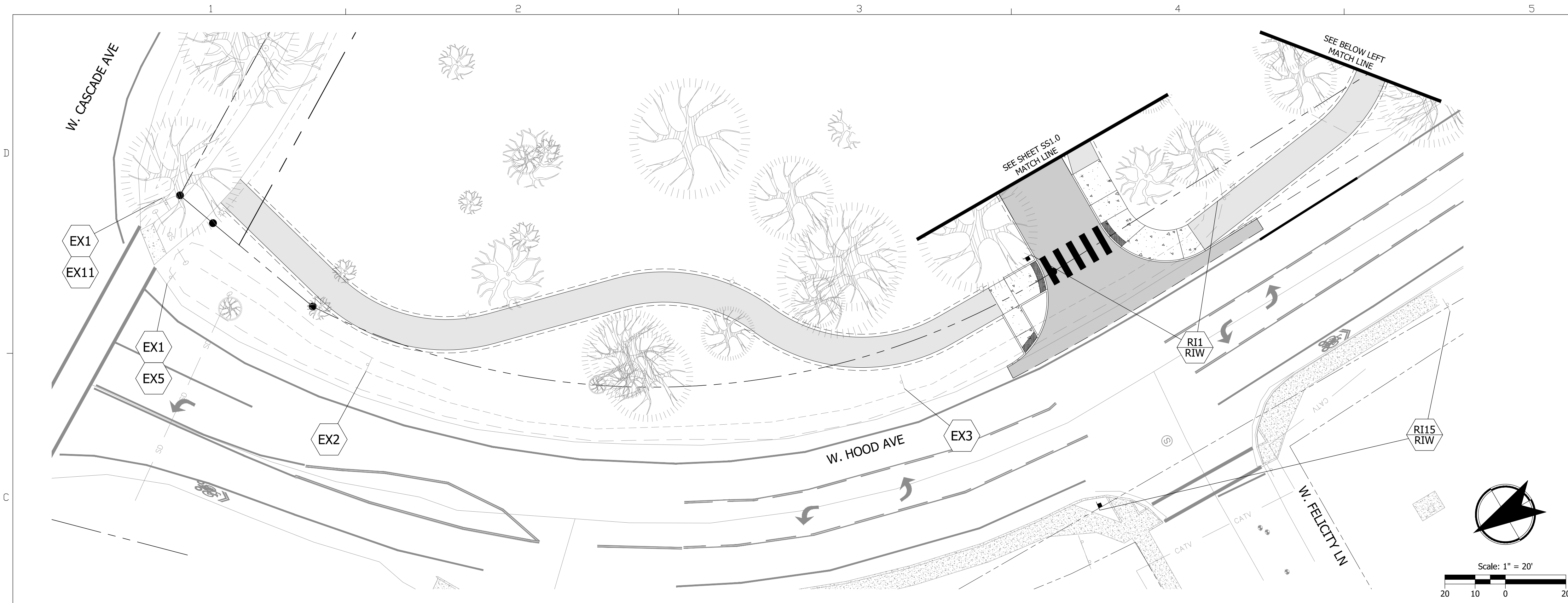
REGISTERED PROFESSIONAL ENGINEER  
**PRELIMINARY NOT FOR CONSTRUCTION**  
CASSIEL MONTGOMERY  
EXPIRES: 12/31/24

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024


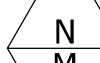



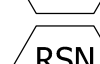
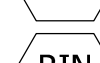
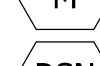

  
**CITY OF SISTERS**  
EST. 1946

**Signing Plan - Mobility Hub**  
EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
DRAWING NAME:  
SHEET: **SS1.0**



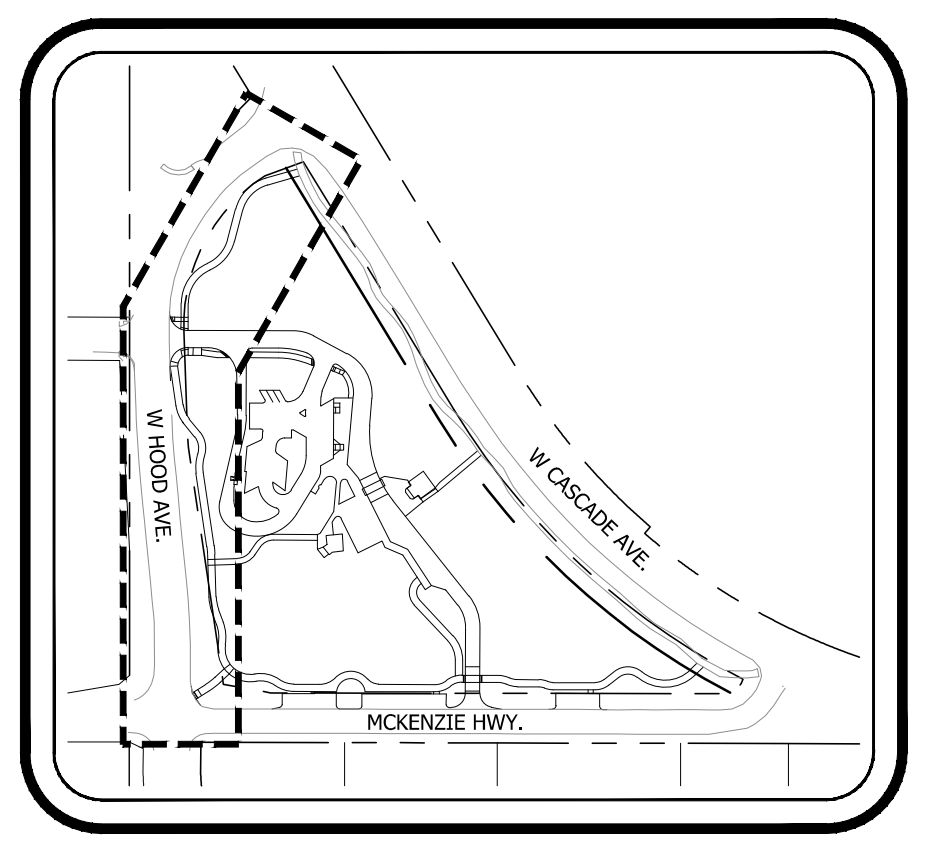
**SIGNING LEGEND**

-  Install new sign (N).
-  Install new sign (N) on new (M) sign support.
-  Remove existing sign (N)
-  Reinstall existing sign (N)
-  Retain and protect existing sign (N) and support
-  Remove and save existing sign (N) and remove (M) sign support
-  Reinstall existing sign (N) on new (M) sign support
-  Remove and save existing sign (N) and (M) sign support
-  Reinstall existing sign (N) and (M) sign support

N = Sign number (See Sheets SS2.0 & SS2.1)  
M = Material options are:  
S = Perforated steel square tube sign support  
W = Wood post

**SIGNING GENERAL NOTES**

1. All signing shall conform to the requirements and specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition, the 2024 Oregon Standard Specifications for Construction, and Current City of Sisters Road Standards.
2. The locations of sign installations shown are approximate, with final locations to be determined in the field.
3. Existing signs not shown are to remain in place unless otherwise directed by the City.

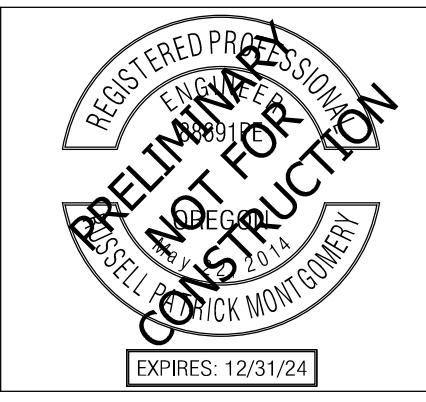


KEY MAP  
SCALE: NTS

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

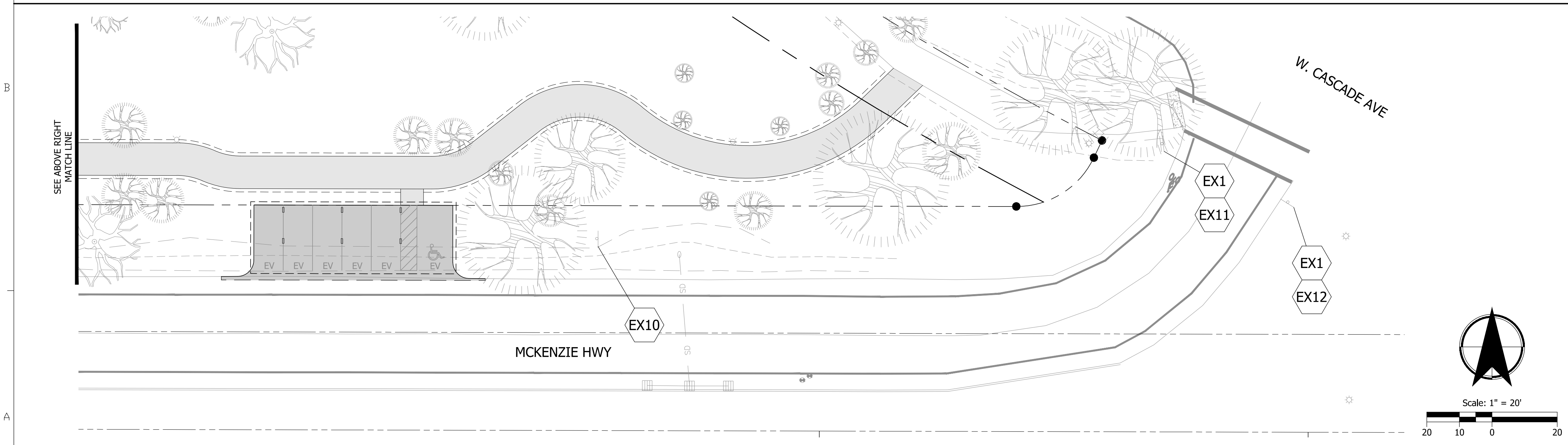
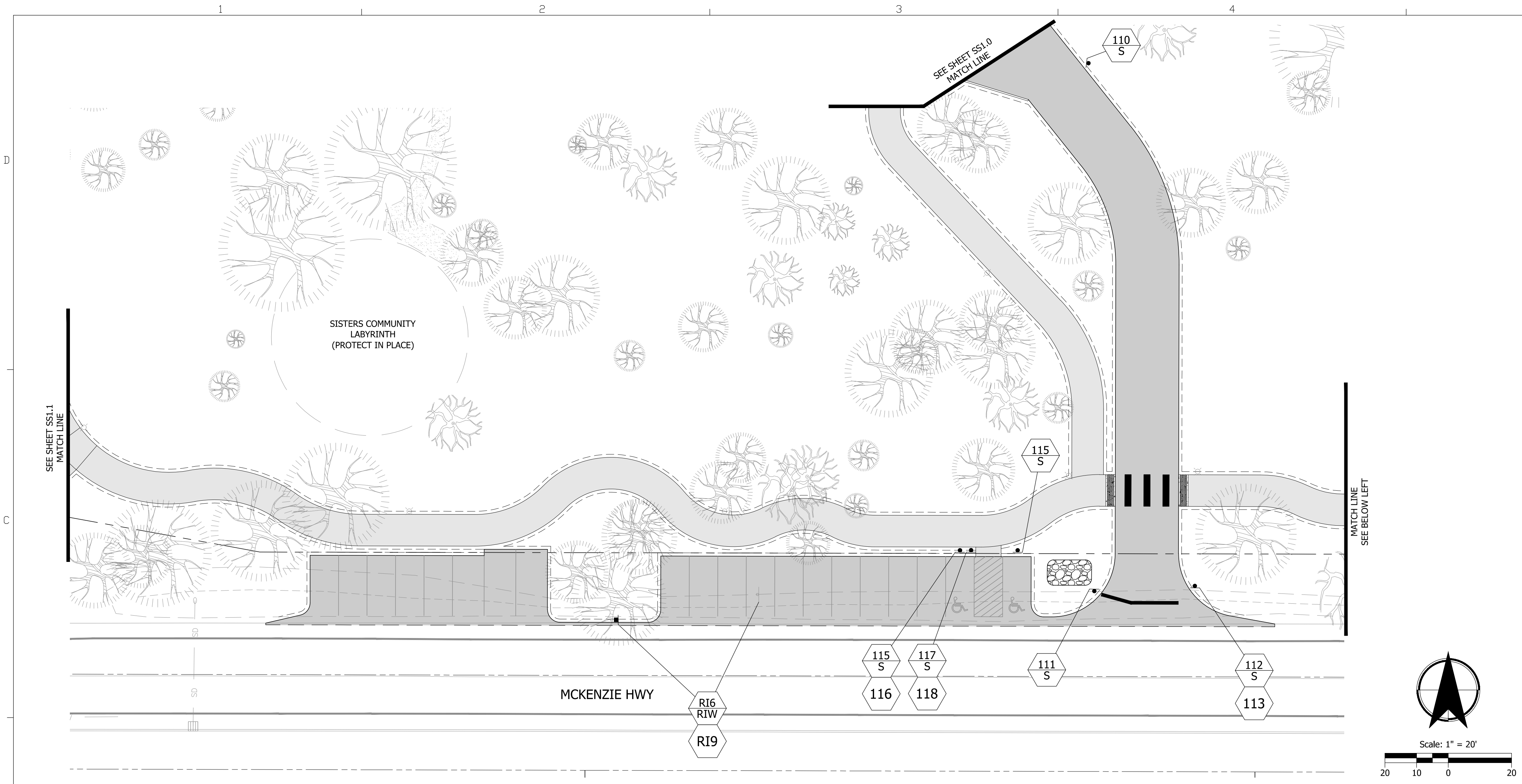


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



Signing Plan - W. Hood Ave  
EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
DRAWING NAME:  
SHEET: **SS1.1**



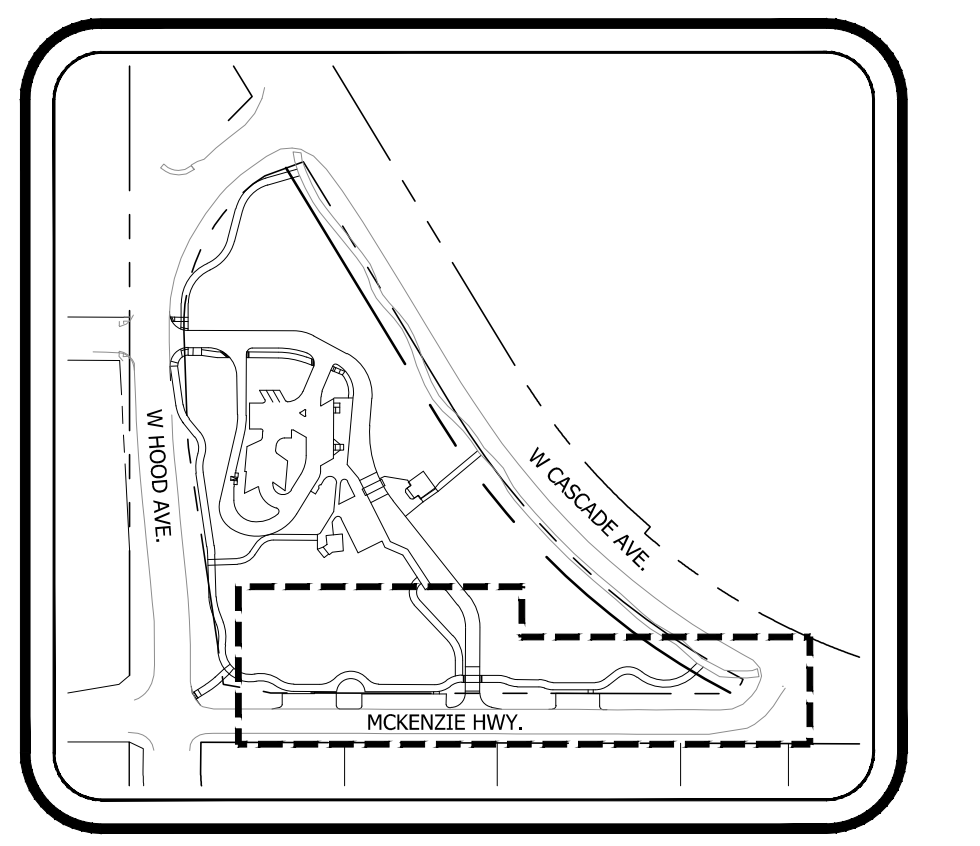
**SIGNING LEGEND**

- Install new sign (N).
- Install new sign (N) on new (M) sign support.
- Remove existing sign (N)
- Reinstall existing sign (N)
- Retain and protect existing sign (N) and support
- Remove and save existing sign (N) and remove (M) sign support
- Reinstall existing sign (N) on new (M) sign support
- Remove and save existing sign (N) and (M) sign support
- Reinstall existing sign (N) and (M) sign support

N = Sign number (See Sheets SS2.0 & SS2.1)  
M = Material options are:  
S = Perforated steel square tube sign support  
W = Wood post

**SIGNING GENERAL NOTES**

1. All signing shall conform to the requirements and specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition, the 2024 Oregon Standard Specifications for Construction, and Current City of Sisters Road Standards.
2. The locations of sign installations shown are approximate, with final locations to be determined in the field.
3. Existing signs not shown are to remain in place unless otherwise directed by the City.



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
**PRELIMINARY NOT FOR CONSTRUCTION**  
CASSIUS L. QUICK MONTGOMERY  
EXPIRES: 12/31/24

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

**CITY OF SISTERS**  
EST. 1946

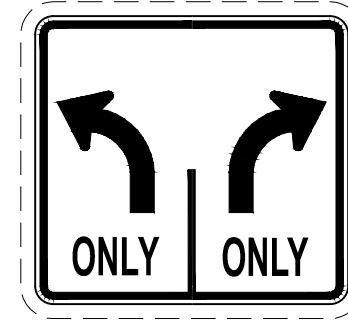
SCALE: AS SHOWN  
DRAWING NAME: **Signing Plan - McKenzie Hwy**  
SHEET: **SS1.2**  
EAST PORTAL MOBILITY HUB IMPROVEMENTS



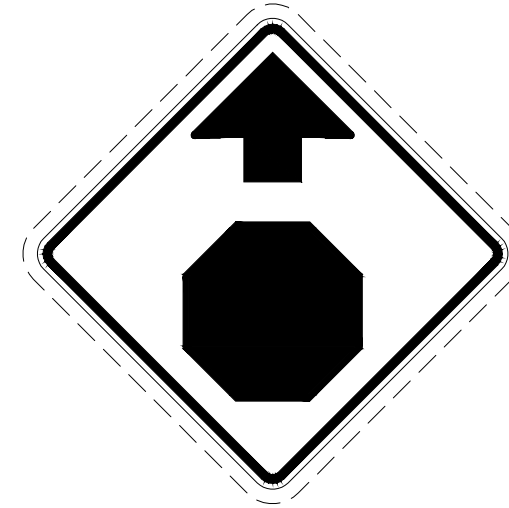
# EXISTING SIGN LEGEND



1 R1-1 EXISTING



2 R3-8 EXISTING



3 D3-1 EXISTING



4 R2-1 EXISTING



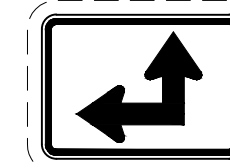
5 D3-1 EXISTING



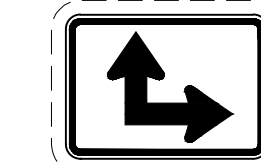
6 M1-5(OR) EXISTING



7 R1-3P EXISTING



8 M6-6L EXISTING



9 M6-6R EXISTING



10 EXISTING



11 R5-3 EXISTING



12 R3-5R EXISTING



13 R4-7A EXISTING



14 EXISTING



15 EXISTING

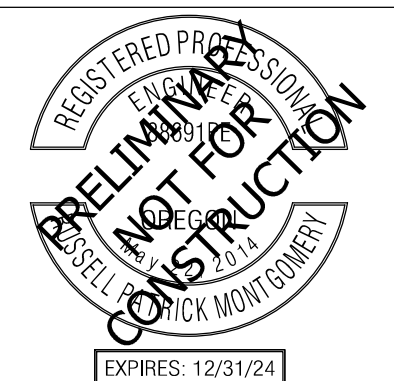


16 D3-1 EXISTING

REVISIONS			
REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
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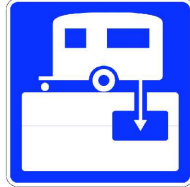
DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



Existing Sign Details  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	SS2.0

# PROPOSED SIGN LEGEND




101 D9-12  
24" x 24"  
White on Blue Background  
Sheet Aluminum




102 M4-5 Modified  
24" x 12"  
White on Blue Background  
Sheet Aluminum



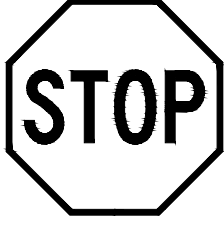
103 M5-1(R)  
21" x 15"  
White on Blue Background  
Sheet Aluminum




104 R3-5(R)  
30" x 36"  
Sheet Aluminum



105 OR3-7a  
30" x 9"  
Black on White Background  
Sheet Aluminum



106 R1-1  
24" x 24"  
Sheet Aluminum



107 R5-3  
24" x 24"  
Sheet Aluminum



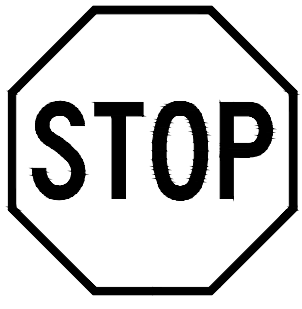
108 R7-1(R) - Per OFC C103.6  
12" x 18"  
Red on White Background  
Sheet Aluminum




109 R7-1(LR) - Per OFC C103.6  
12" x 18"  
Red on White Background  
Sheet Aluminum




110 R7-1(L) - Per OFC C103.6  
12" x 18"  
Red on White Background  
Sheet Aluminum



111 R1-1  
30" x 30"  
Sheet Aluminum



112 R5-1  
30" x 30"  
Sheet Aluminum



113 R5-1A  
30" x 18"  
Sheet Aluminum



114 R3-5(L)  
30" x 36"  
Sheet Aluminum



115 R7-8  
12" x 18"  
Green Legend on White Background  
White Symbol on Blue Background  
Sheet Aluminum



116 R7-8P  
18" x 9"  
Green on White Background  
Sheet Aluminum



117 OR7-9  
12" x 18"  
Red Legend on White Background  
White Symbol on Blue Background  
Sheet Aluminum



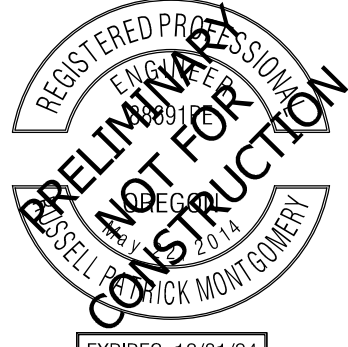
118 OR7-9a  
12" x 8"  
Red on White Background  
Sheet Aluminum

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:



**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



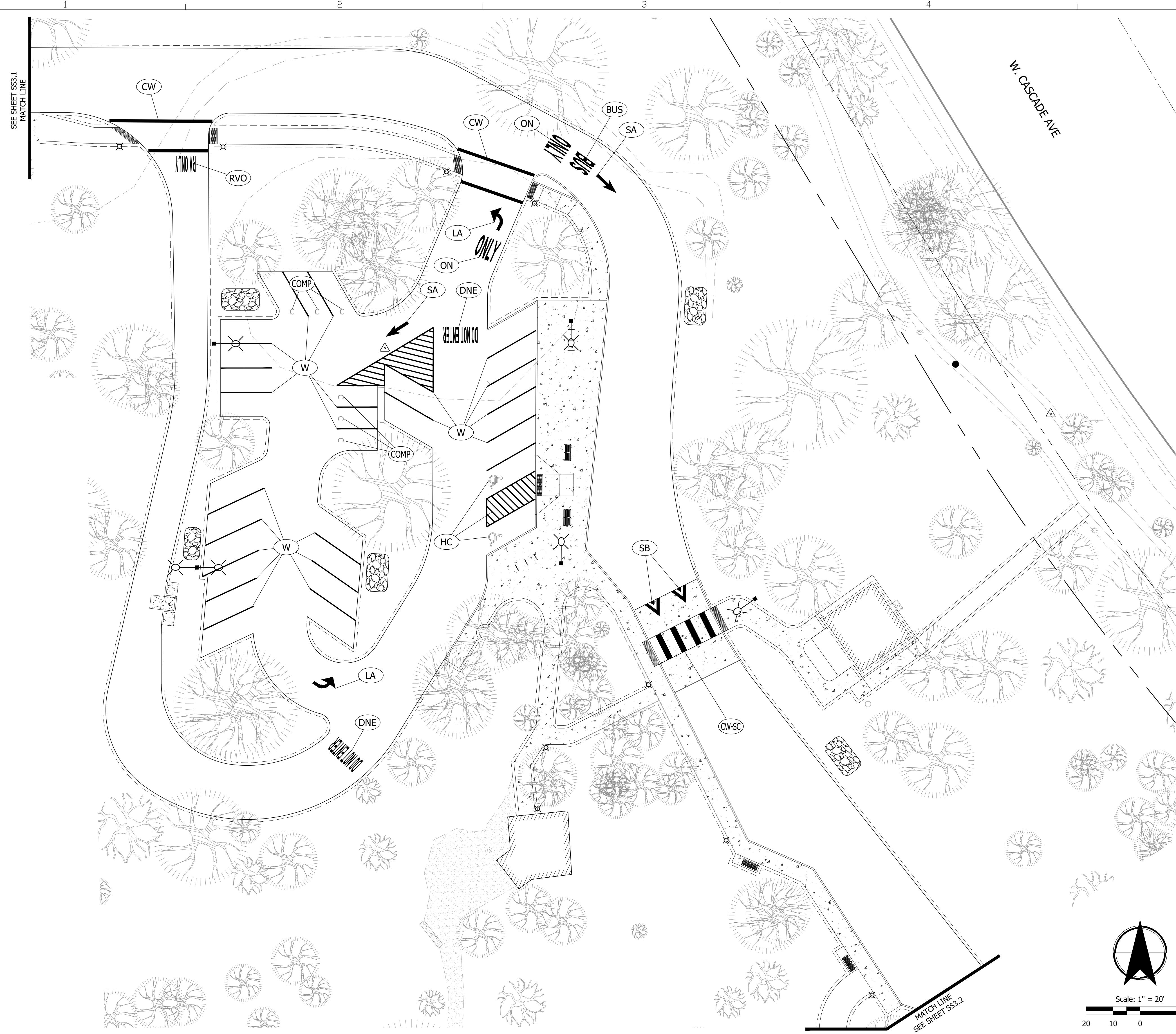
**CITY OF SISTERS**  
EST. 1946

**Proposed Sign Details**

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EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	SS2.1

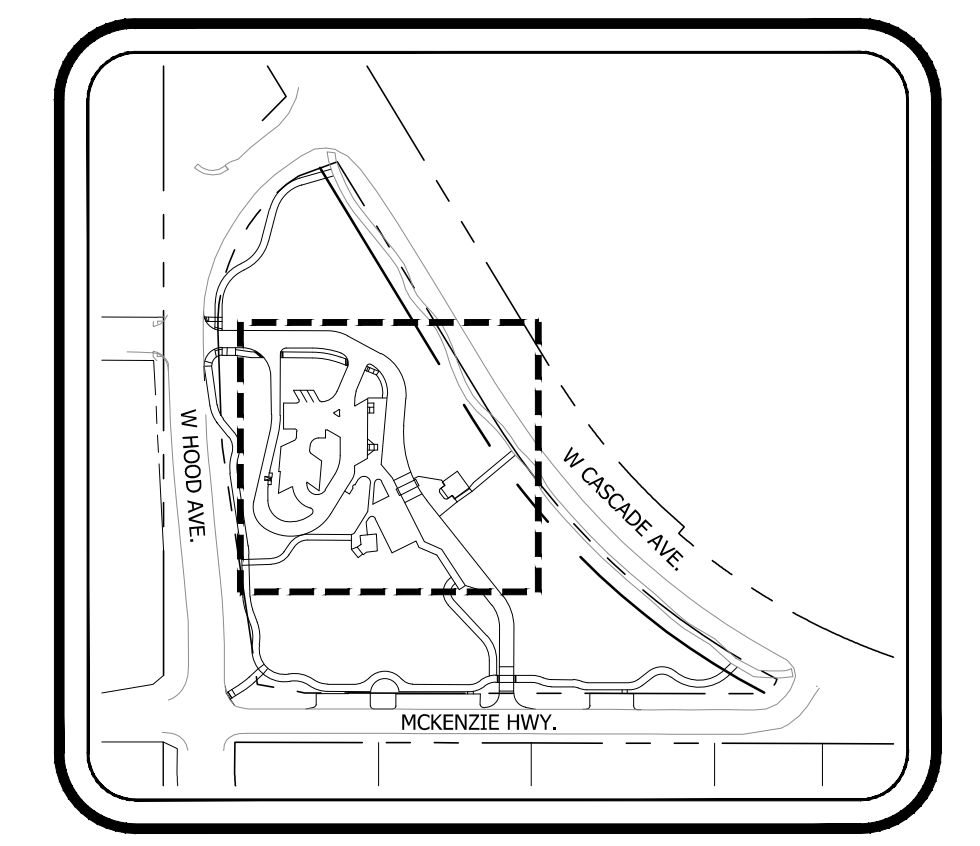


**STRIPING LEGEND**

- W Install 4" white line, paint
- W-2 Install 8" white line, paint
- CW Install standard crosswalk with two 1' white bars, Type B
- CW-SC Install standard continental crosswalk 2' white bars, Type B
- HC Install disabled parking detail (white), Type B
- SA Install straight arrow (white), Type B
- LA Install left arrow (white), Type B
- BUS Install "BUS" legend (white), Type B
- ON Install "ONLY" legend (white), Type B
- RVO Install "RV" legend (white) 24" tall, Type B
- DNE Install "DO NOT ENTER" legend (white) 24" tall, Type B
- COMP Install "C" legend (white) 24" tall, Type B
- SB Install speed bump marking (white), Type B

**STRIPING GENERAL NOTES**

1. All pavement markings shall conform to the required specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition and current City of Sisters Road Standards. See ODOT Standard Drawings TM500, TM501, and TM503 on Sheet SS4.0.
2. The final layout for all pavement markings shall first be approved by the City prior to application.

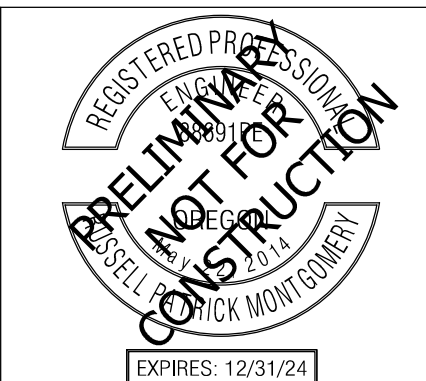


**KEY MAP**  
SCALE: NTS

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

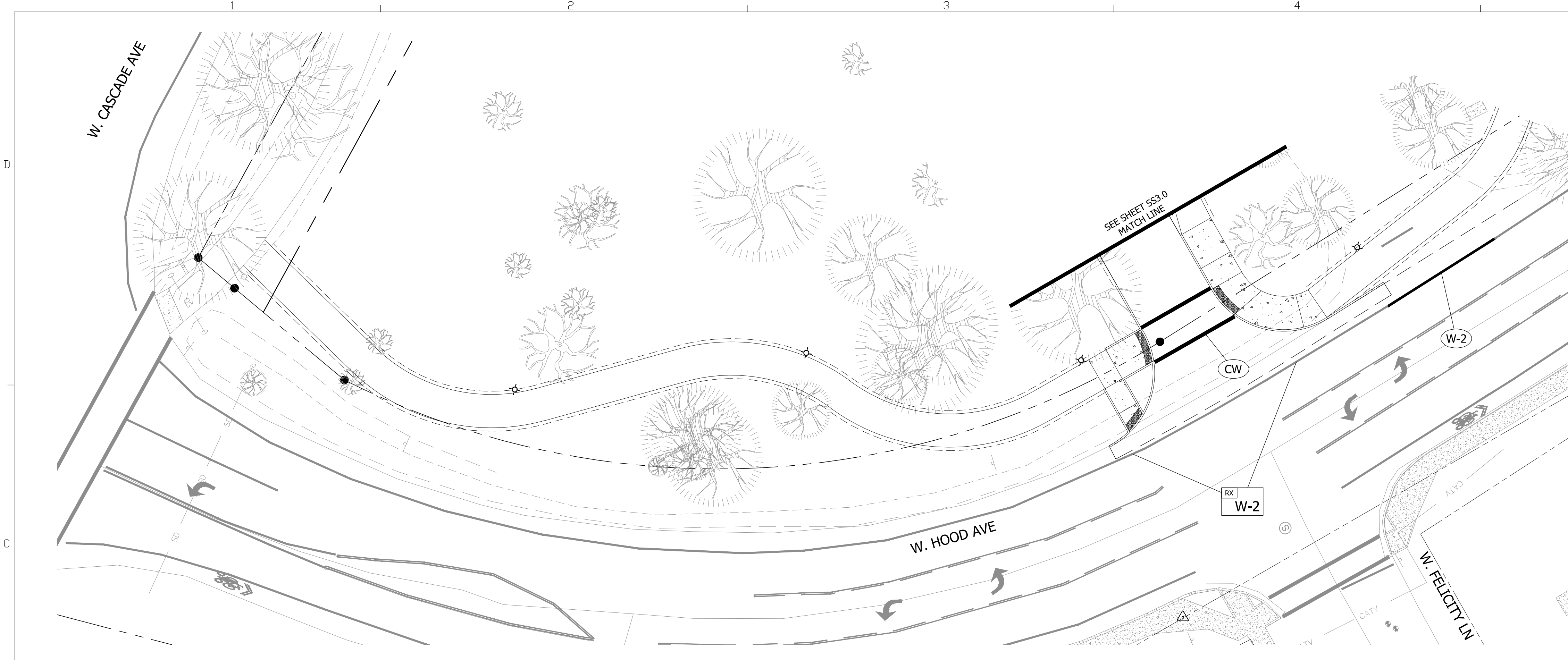


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Striping Plan - Mobility Hub**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: **SS3.0**

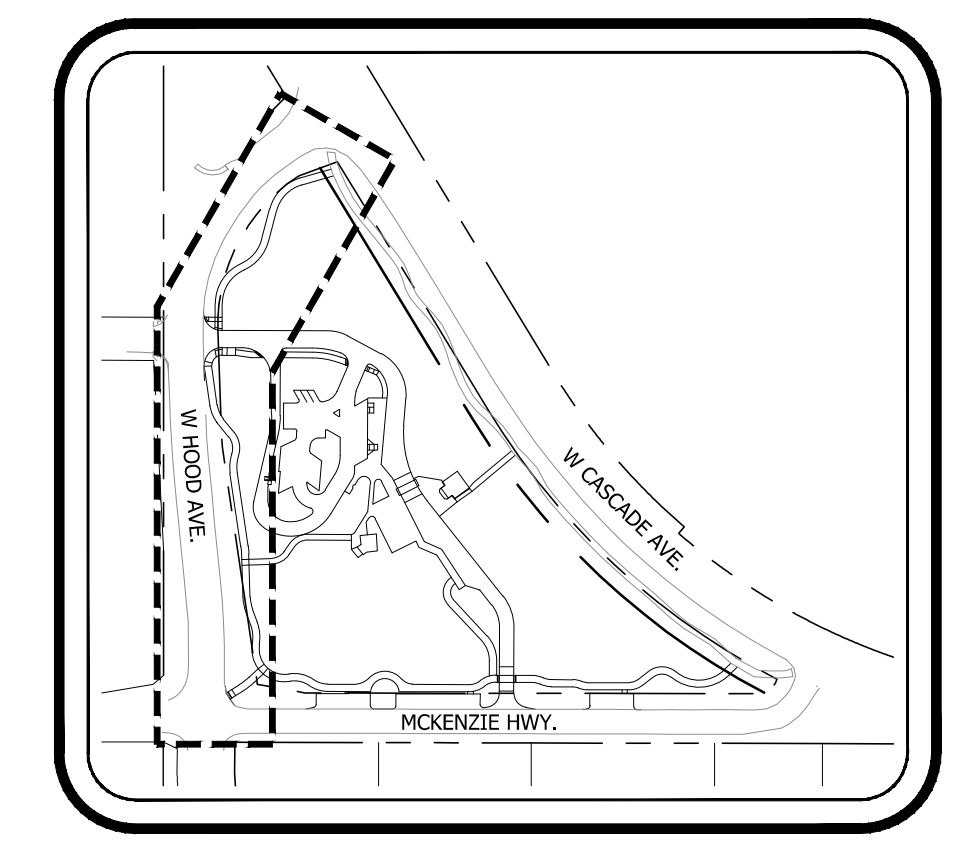


**STRIPING LEGEND**

- W Install 4" white line, paint
- W-2 Install 8" white line, paint
- CW Install standard crosswalk with two 1' white bars, Type B
- HC Install disabled parking detail (white), Type B
- RX W-2 Remove 8" white line

**STRIPING GENERAL NOTES**

1. All pavement markings shall conform to the required specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition and current City of Sisters Road Standards. See ODOT Standard Drawings TM500, TM501, and TM503 on Sheet SS4.0.
2. The final layout for all pavement markings shall first be approved by the City prior to application.

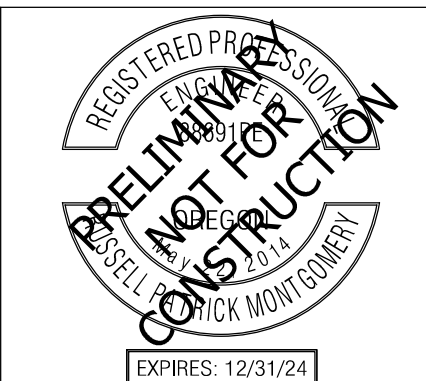


**KEY MAP**  
SCALE: NTS

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

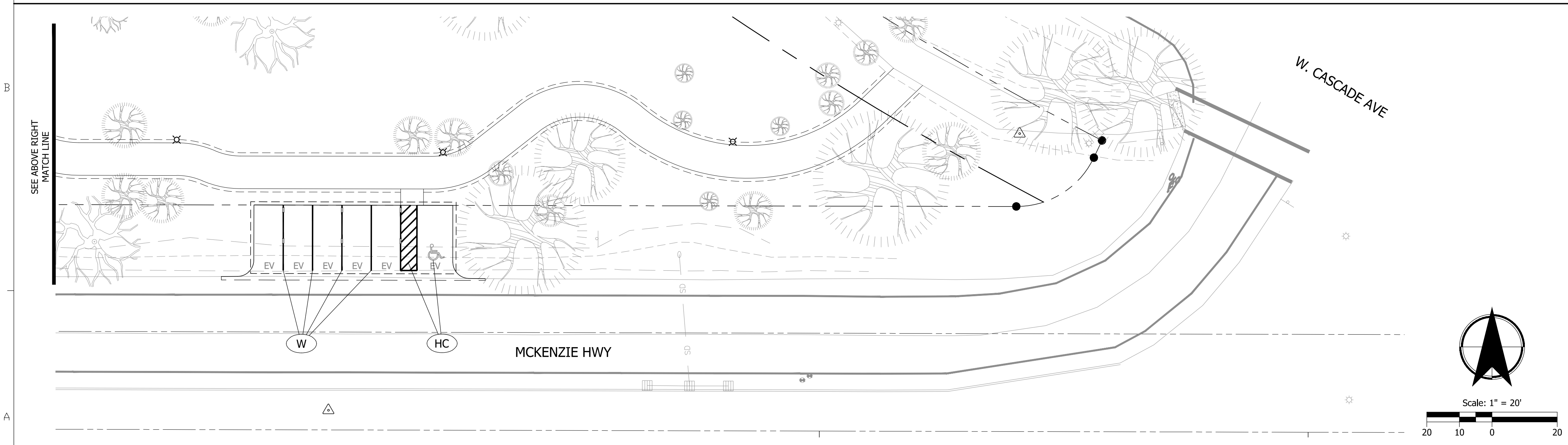
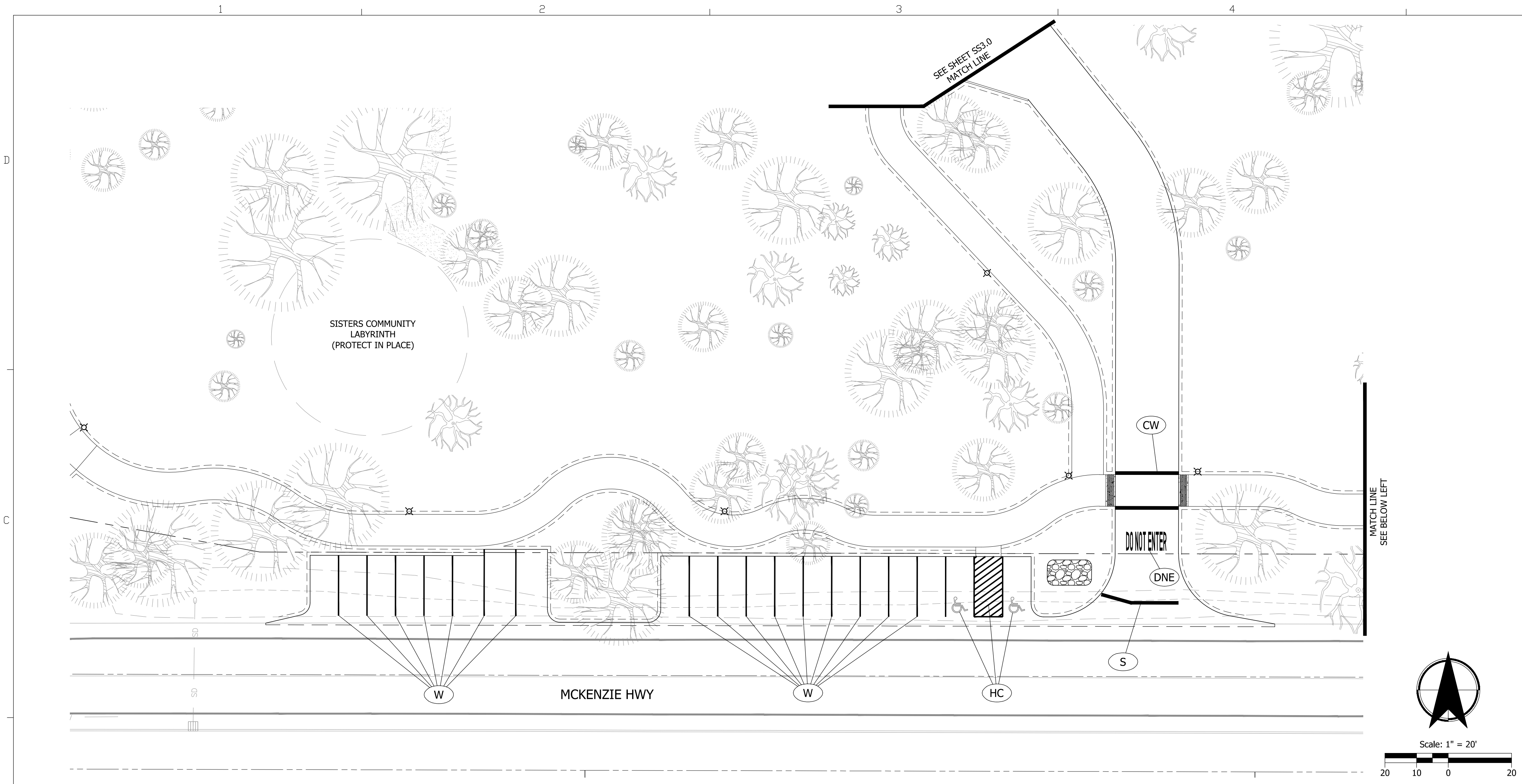


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**Striping Plan - W. Hood Ave**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE AS SHOWN  
 DRAWING NAME  
 SHEET **SS3.1**

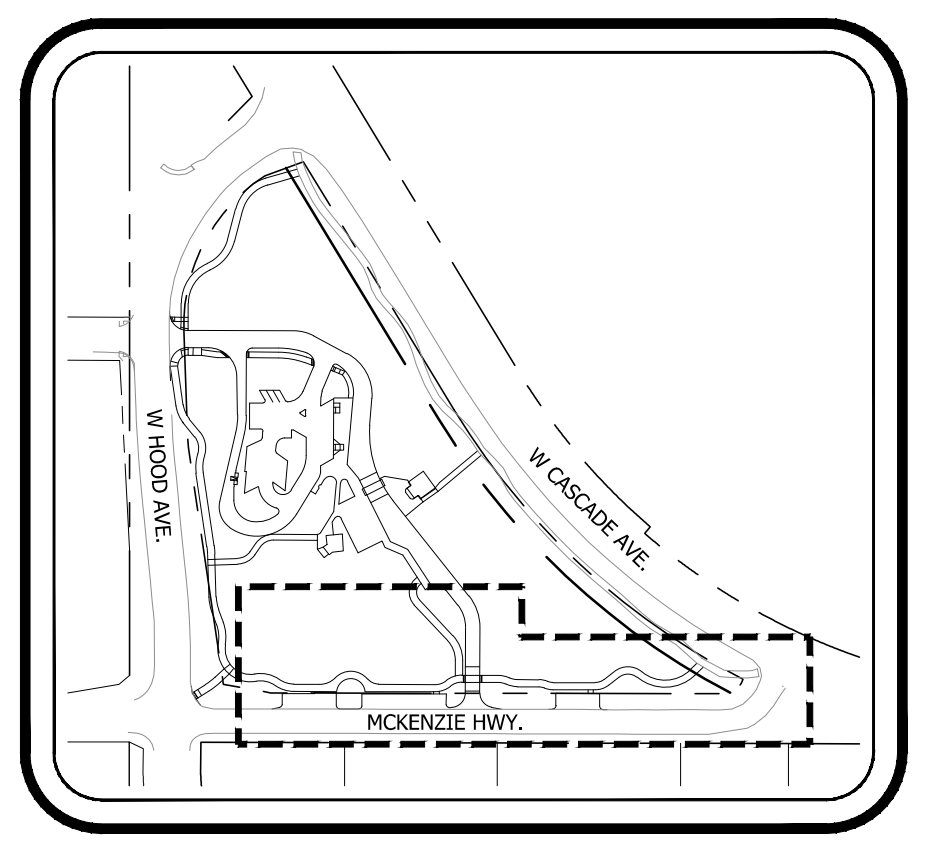


**STRIPING LEGEND**

- W** Install 4" white line, paint
- W-2** Install 8" white line, paint
- CW** Install standard crosswalk with two 1' white bars, Type B
- HC** Install disabled parking detail (white), Type B
- DNE** Install "DO NOT ENTER" legend (white) 24" tall, Type B
- S** Install stop bar 1' white bar, Type B

**STRIPING GENERAL NOTES**

1. All pavement markings shall conform to the required specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition and current City of Sisters Road Standards. See ODOT Standard Drawings TM500, TM501, and TM503 on Sheet SS4.0.
2. The final layout for all pavement markings shall first be approved by the City prior to application.



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 EXPIRES: 12/31/24

**PRELIMINARY NOT FOR CONSTRUCTION**

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

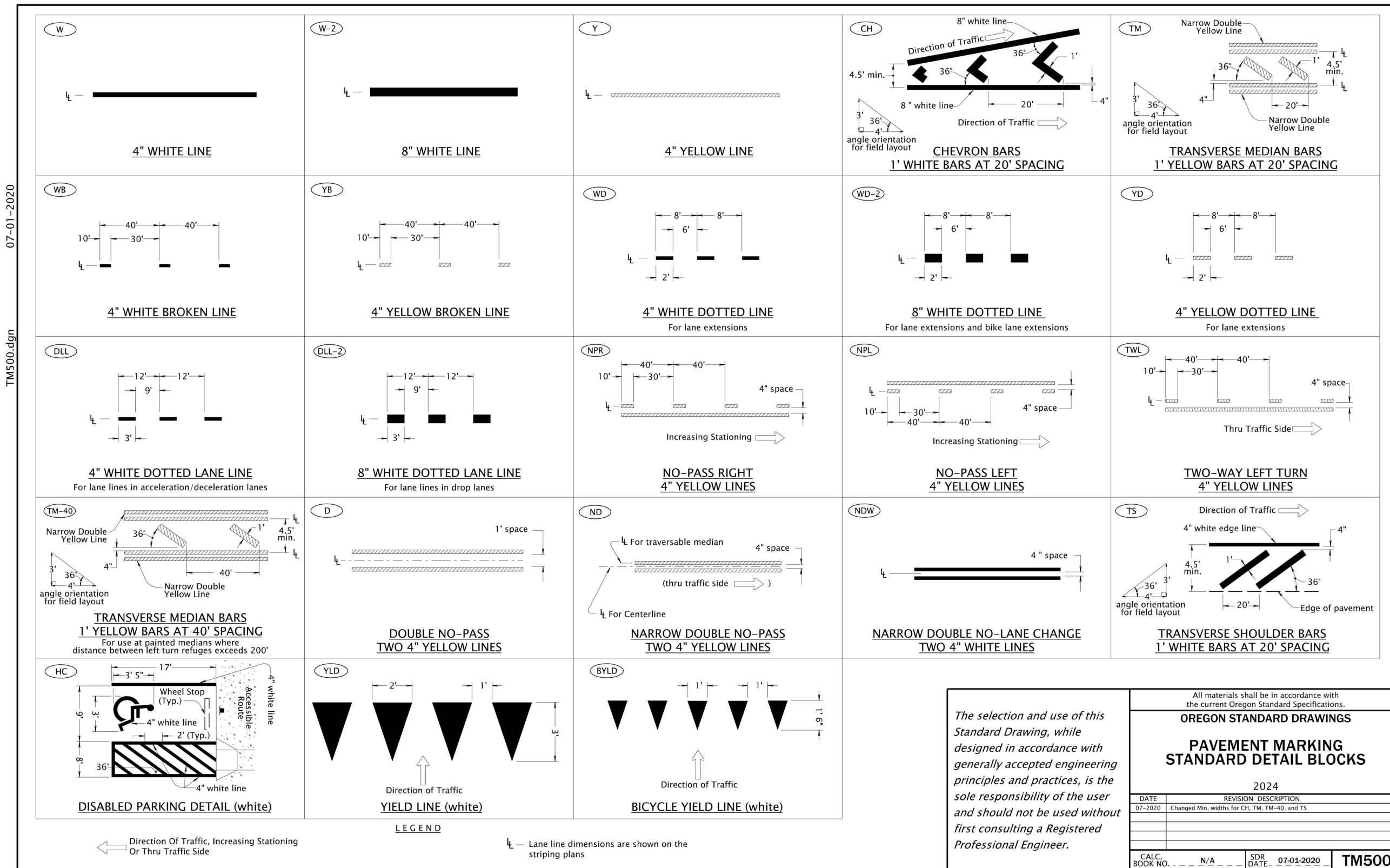
**CITY OF SISTERS**  
EST. 1946

SCALE: AS SHOWN

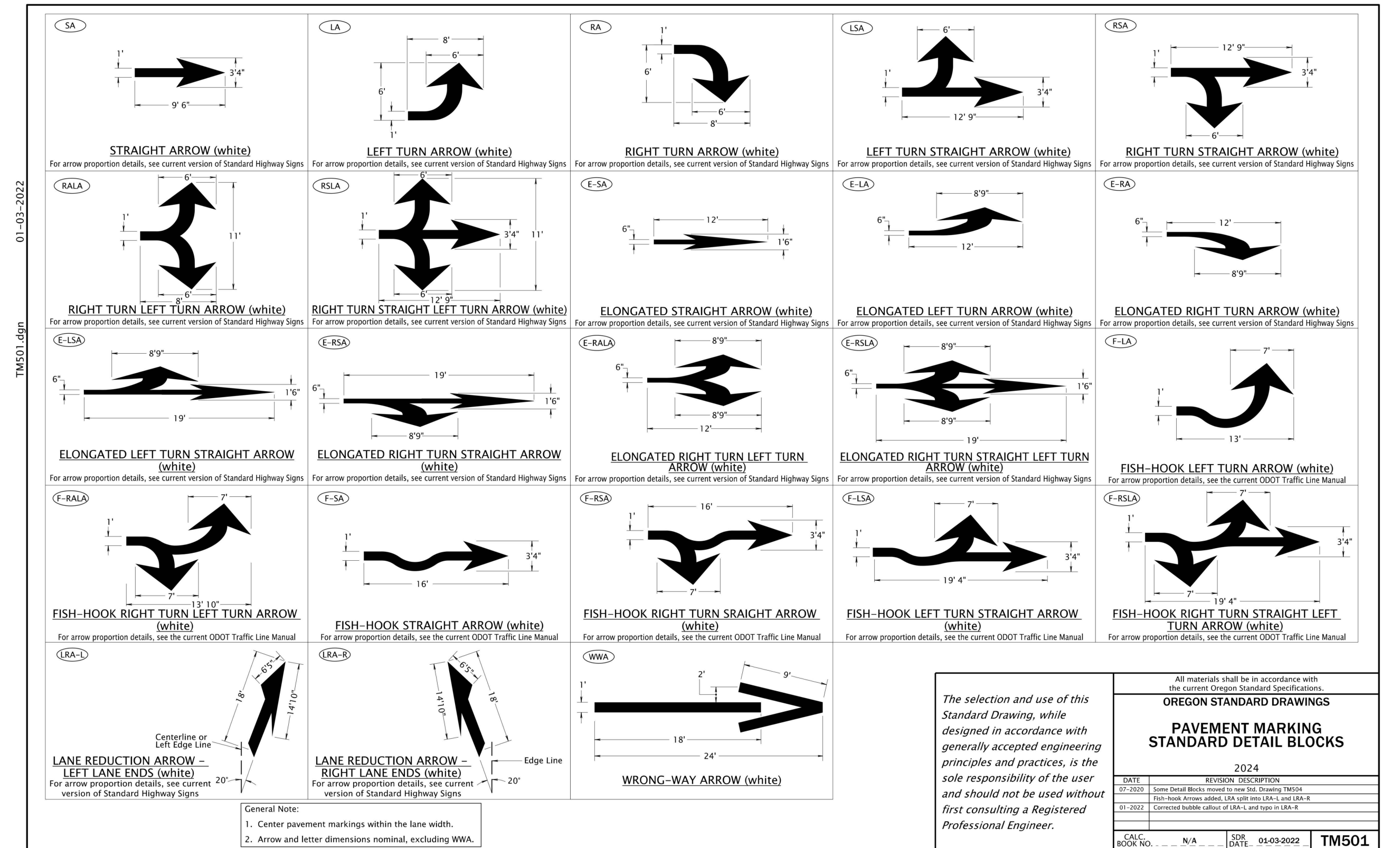
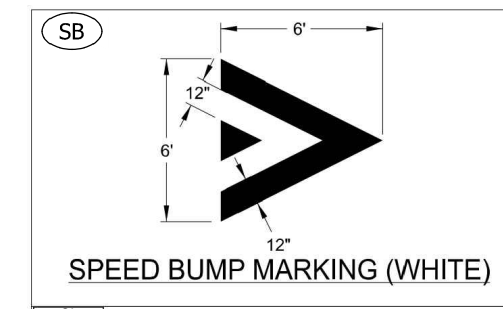
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SHEET: **SS3.2**

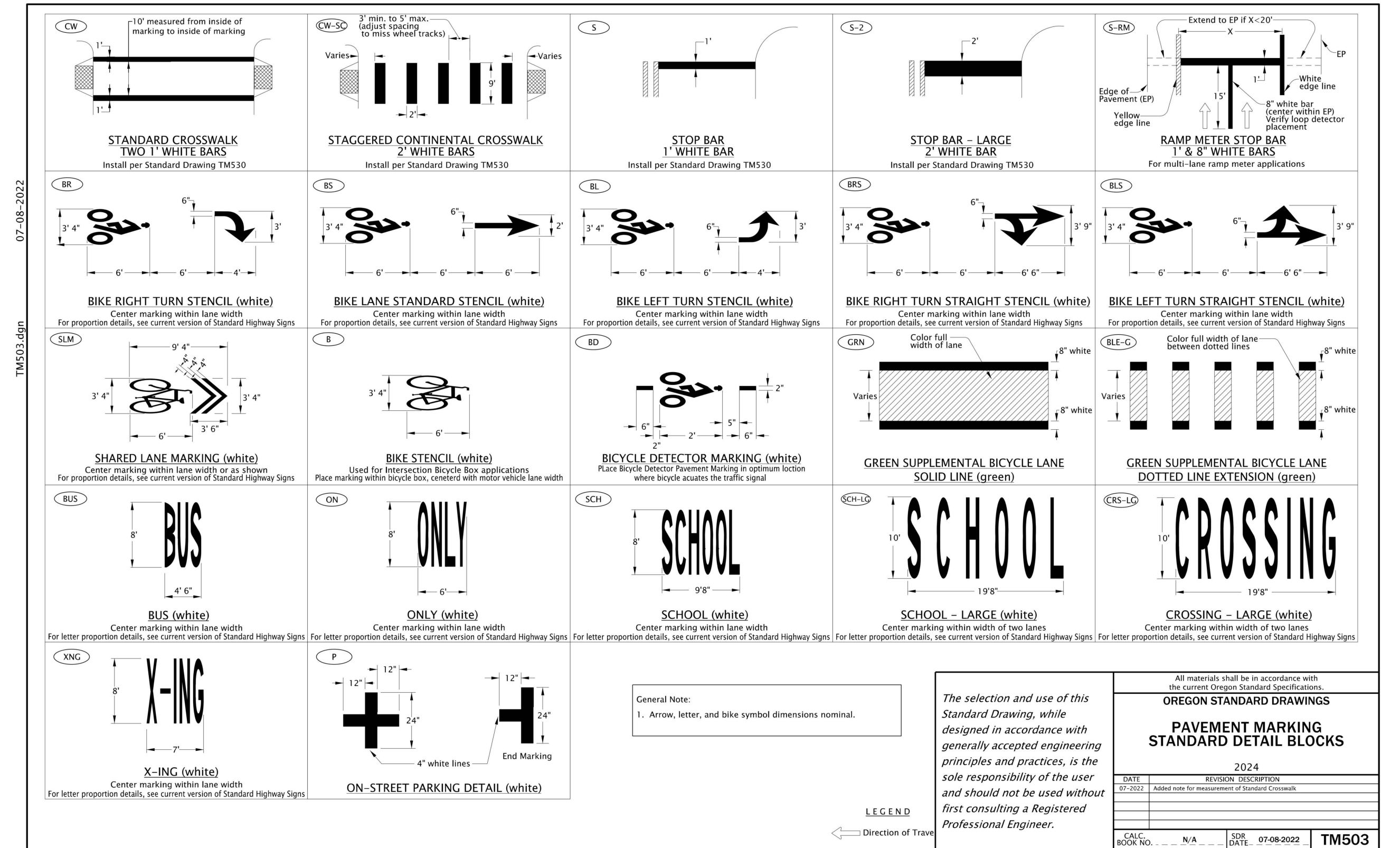
EAST PORTAL MOBILITY HUB IMPROVEMENTS



Effective Date: June 1, 2024 - November 30, 2024



Effective Date: June 1, 2024 - November 30, 2024



Effective Date: June 1, 2024 - November 30, 2024

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
 PRELIMINARY NOT FOR CONSTRUCTION  
 CASSELL MONTGOMERY  
 EXPIRES: 12/31/24

DESIGN: RPM  
 DRAFTED: CCT/ATW  
 CHECKED: AMR  
 DATE: June 2024






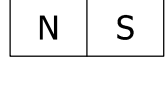
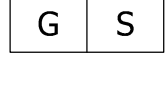




SCALE: AS SHOWN  
 DRAWING NAME: Striping Details  
 SHEET: SS4.0  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

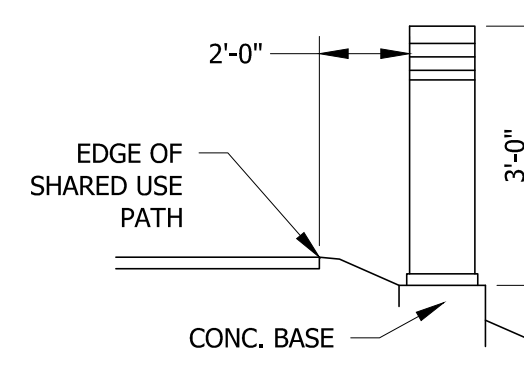
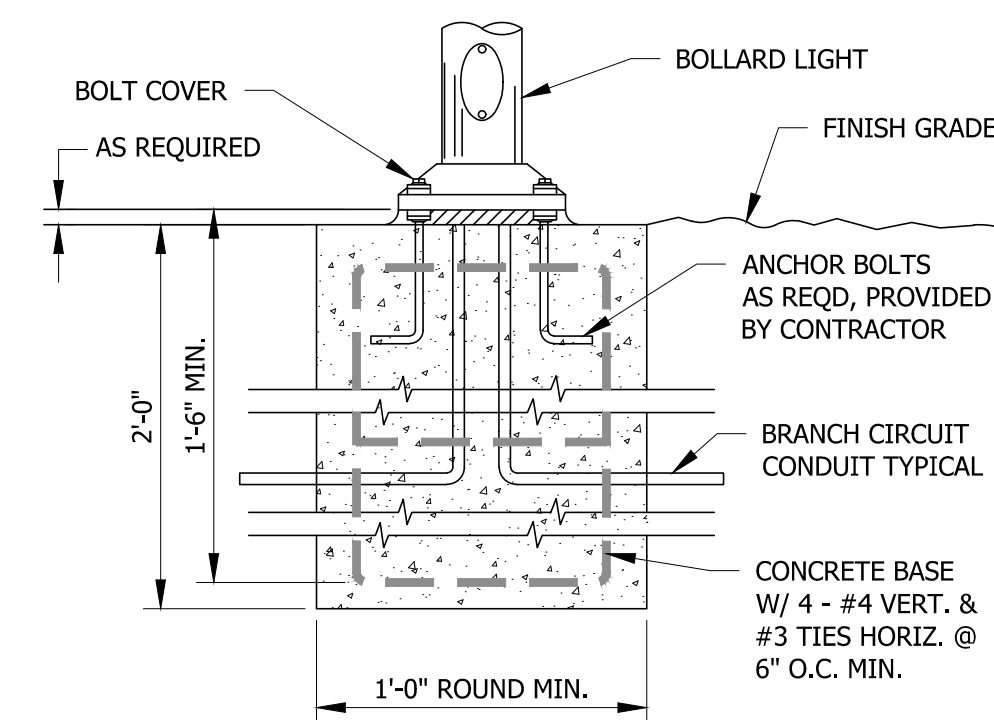
## GENERAL NOTES

- All illumination related work other than pole foundation shall be paid for at the contract price for "Switching, conduit, and wiring - Lump Sum."
- Foundations, junction boxes, and conduit shall be installed at locations shown on plans. If conflicts arise, foundation, junction box, and conduit locations may be modified in the field per engineer's approval. All lighting equipment must be placed within the right-of-way. Place conduit in same trench as other conduits whenever possible.
- Location of all existing utilities shall be verified prior to beginning any work. Coordinate all work with utility companies to eliminate conflicts.
- Final light pole location(s) shall be approved in the field by the engineer prior to foundation installation.
- This illumination plans set is accompanied by Oregon Department of Transportation (ODOT) Standard Drawing TM300 & TM301.
- All conduit elbows shall be factory made and be long radius 36". For conduit runs longer than 150' or containing more than 270 degrees of bends, elbows shall be fiberglass.
- Contractor to coordinate with Central Electric Cooperative (CEC) ten (10) business days in advance of commencing illumination work. Contact Dan McDevitt (dmcdevitt@cec.coop // 541.312.3549).
- Light levels are based on ANSI/IES RP-8-18, Design and Maintenance of Roadway and Parking Facility Lighting criteria.
- Conduit runs and junction box locations shown are schematic. Place junction boxes in a flat area (<2%), accessible to maintenance personnel.

## ILLUMINATION LEGEND

-  Install aluminum light pole (LP) with evluma RX2-070-E3-T3-G1 fixture or approved equal, pole number (N). Foundation shall be Utility Vault precast concrete (part 5CL-LB), or approved equal.
-  Install bollard light (BL) per detail on this sheet, bollard number (N). KIM Lighting part #: VSB/10LXKU/XX Vandal Proof Contractor shall submit bollard light specification sheet to Owner for approval prior to installation; bollard light shall be light emitting diode (LED) type luminaire; bollard light shall also be compliant with City of Sisters Ordinance No 251 H (Dark Skies); bollard shall be aluminum material and earth-tone in color; contractor shall install conduit and wire to existing shared-use path electrical circuit; contractor to coordinate with City of Sisters for connection to circuit.
-  Install 17"x10"x12" (min dimension) precast concrete junction box
-  Install 17"x10"x12" (min dimension) precast concrete junction box with concrete apron
-  Install (S=size) inch electrical conduit
-  Install (N=number) No. (S=AWG wire size) XHHN wires
-  Install Ground (S=AWG wire size) XHHN wires
-  Install poly pull line
-  Install BMCL

AREA	DESIGN LIGHTING RESULTS		
		Average Illuminance (fc)	Uniformity
MAIN PARKING LOT	Max: 12.0 Min: 0.1	1.9	18.8 : 1
BUS TURNOUT	Max: 7.4 Min: 0.1	1.6	15.9 : 1
MOTORHOME DUMPING	Max: 9.5 Min: 0.1	1.7	16.5 : 1



NOTE: DESIGN BASED ON KIM LIGHTING PART # VSB/10LXKU/XX VANDAL PROOF. CONTRACTOR SHALL SUBMIT BOLLARD LIGHT SPECIFICATION SHEET TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

BOLLARD LIGHT SHALL BE LIGHT EMITTING DIODE (LED) TYPE LUMINAIRE. BOLLARD LIGHT SHALL ALSO BE COMPLIANT WITH CITY OF SISTERS ORDINANCE NO. 251 H (DARK SKIES). BOLLARD SHALL BE ALUMINUM MATERIAL AND EARTH-TONE IN COLOR.

CONTRACTOR SHALL INSTALL PER MANUFACTURER RECOMMENDATIONS AND SHALL PROVIDE ALL HARDWARE AND APPURTENANCES NECESSARY FOR A COMPLETED FUNCTIONAL BOLLARD LIGHT.

**CONCRETE BASE AND BOLLARD LIGHT**  
NOT TO SCALE

REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER  
PRELIMINARY NOT FOR CONSTRUCTION  
CASSIDY MONTGOMERY  
EXPIRES: 12/31/24

DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

**CITY OF SISTERS**  
EST. 1946

**ILLUMINATION PLAN**  
EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	L1.0

SEE SHEET L1.4  
MATCH LINE

W Felicity Ln

W Cascade Ave










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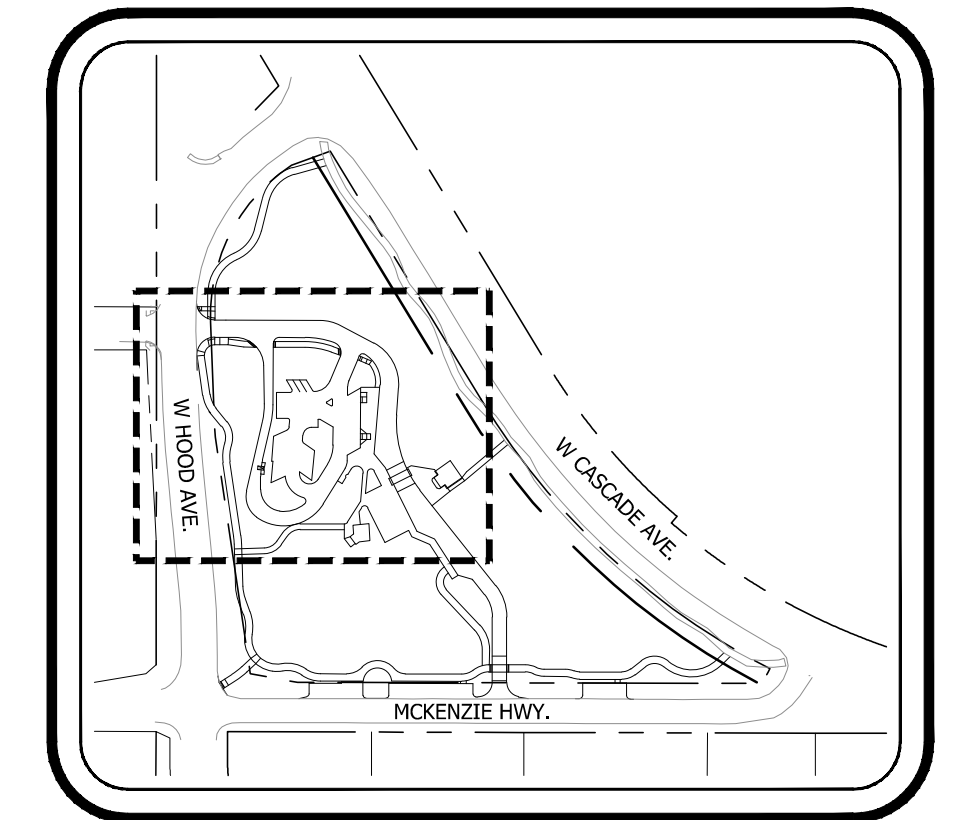
W. HOOD AVE

MATCH LINE  
SEE SHEET L1.2

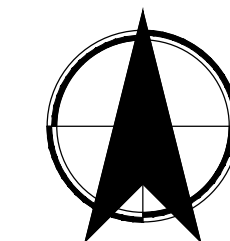
MATCH LINE  
SEE SHEET L1.2

### ILLUMINATION LEGEND

-  Install aluminum light pole (LP) with evluma RX2-070-E3-T3-G1 fixture or approved equal, pole number (N). Foundation shall be Utility Vault precast concrete (part 5CL-LB), or approved equal.
-  Install bollard light (BL) per detail on this sheet, bollard number (N). KIM Lighting part #: VSB/10LXKU/XX Vandal Proof  
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-  Install Ground (S=AWG wire size) XHHN wires
-  Install poly pull line
-  Install BMCL



KEY MAP  
SCALE: NTS



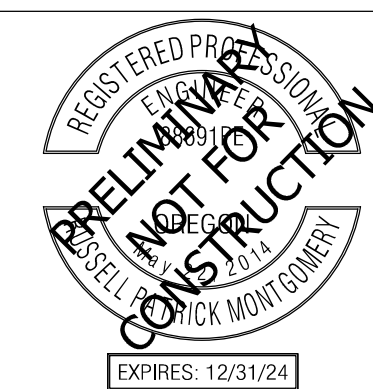
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REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:



851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

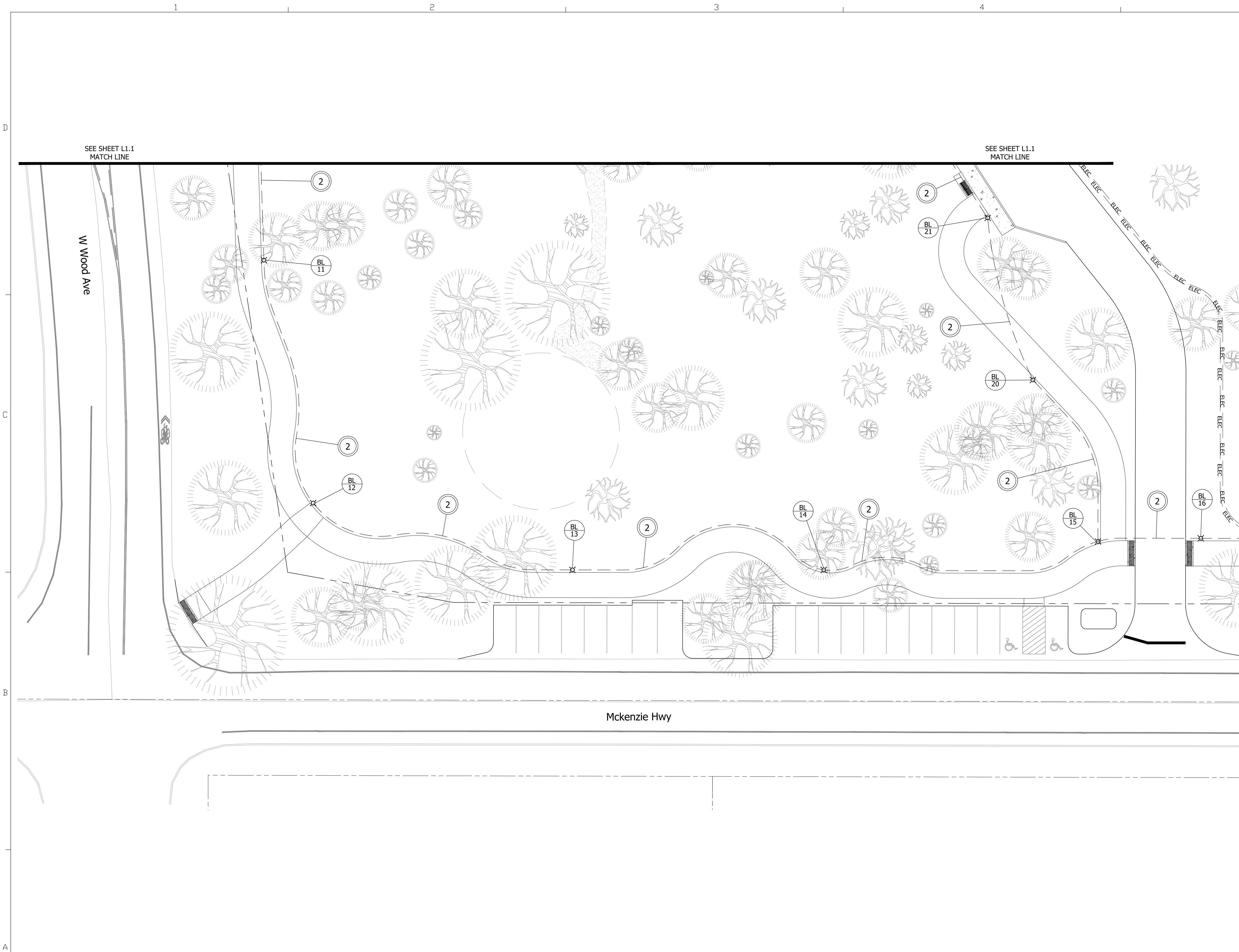







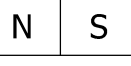
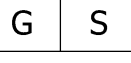


## ILLUMINATION PLAN

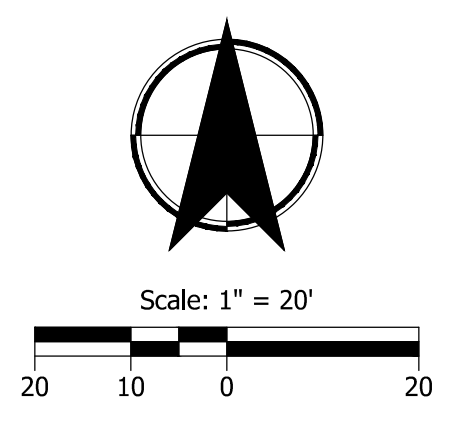
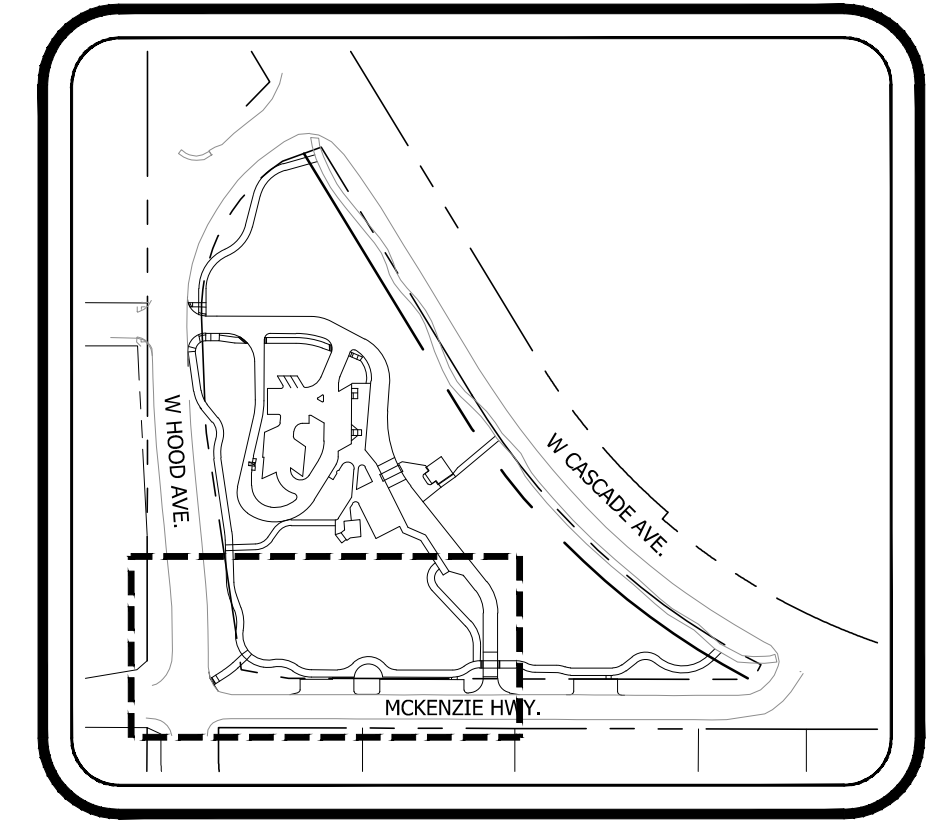
EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE AS SHOWN  
DRAWING NAME  
SHEET  
**L1.1**





- ### ILLUMINATION LEGEND
-  Install aluminum light pole (LP) with evluma RX2-070-E3-T3-G1 fixture or approved equal, pole number (N). Foundation shall be Utility Vault precast concrete (part 5CL-LB), or approved equal.
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  -  Install Ground (S=AWG wire size) XHHN wires
  -  Install poly pull line
  -  Install BMCL

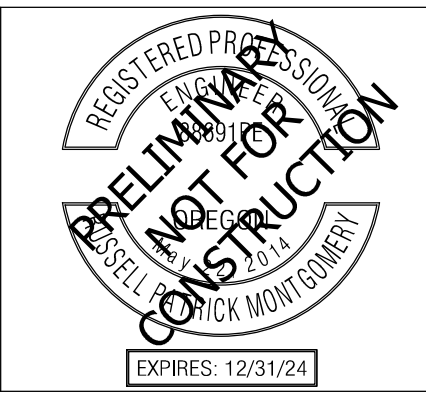


REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169



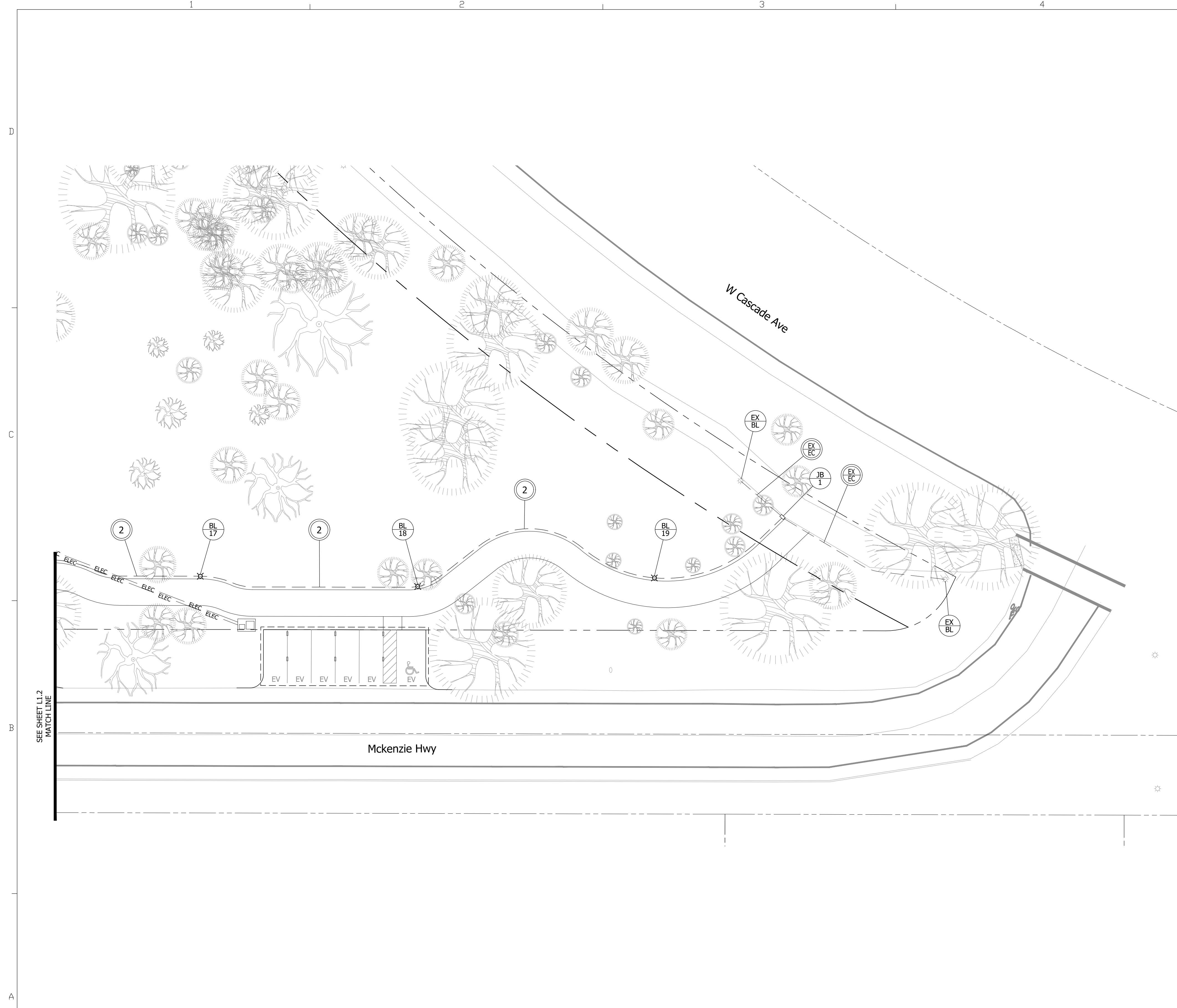
DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



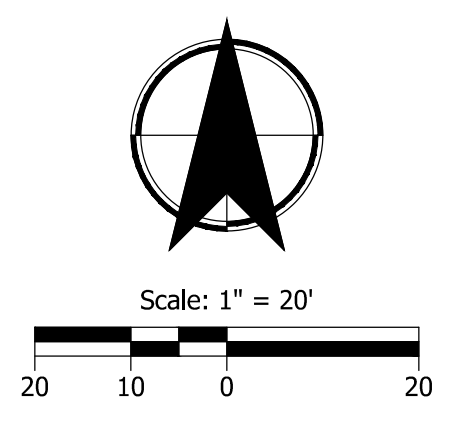
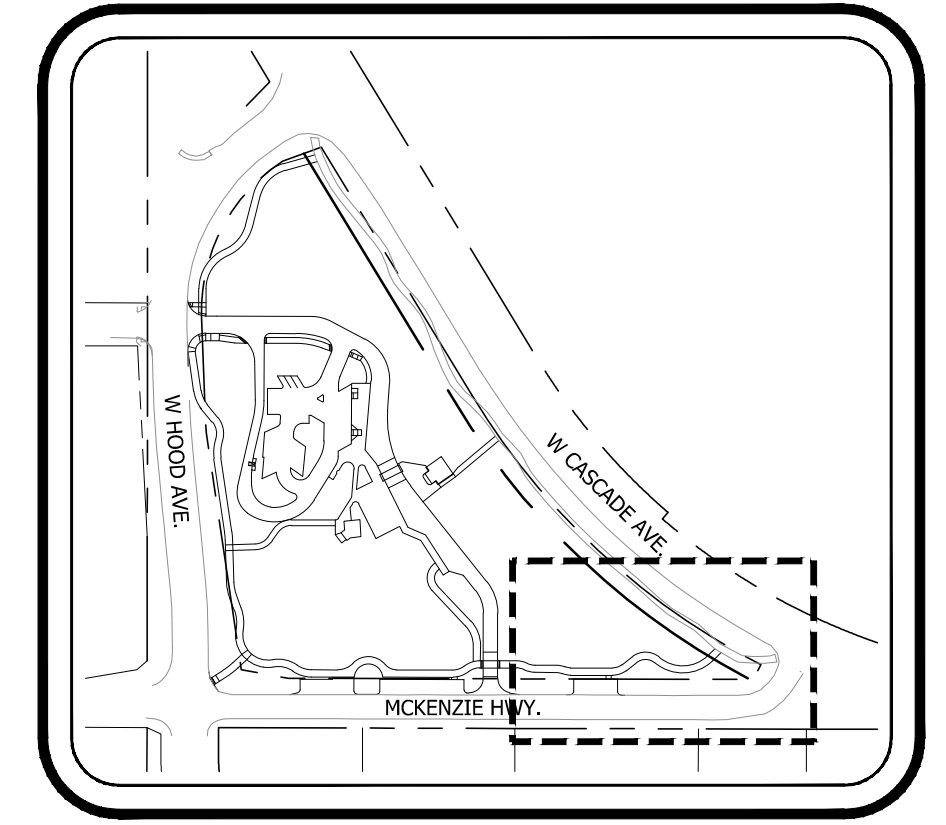
**ILLUMINATION PLAN**

EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	L1.2



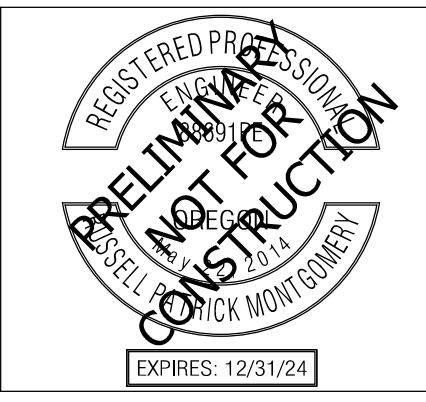
- ### ILLUMINATION LEGEND
- Install aluminum light pole (LP) with evluma RX2-070-E3-T3-G1 fixture or approved equal, pole number (N). Foundation shall be Utility Vault precast concrete (part 5CL-LB), or approved equal.
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  - Install poly pull line
  - Install BMCL



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

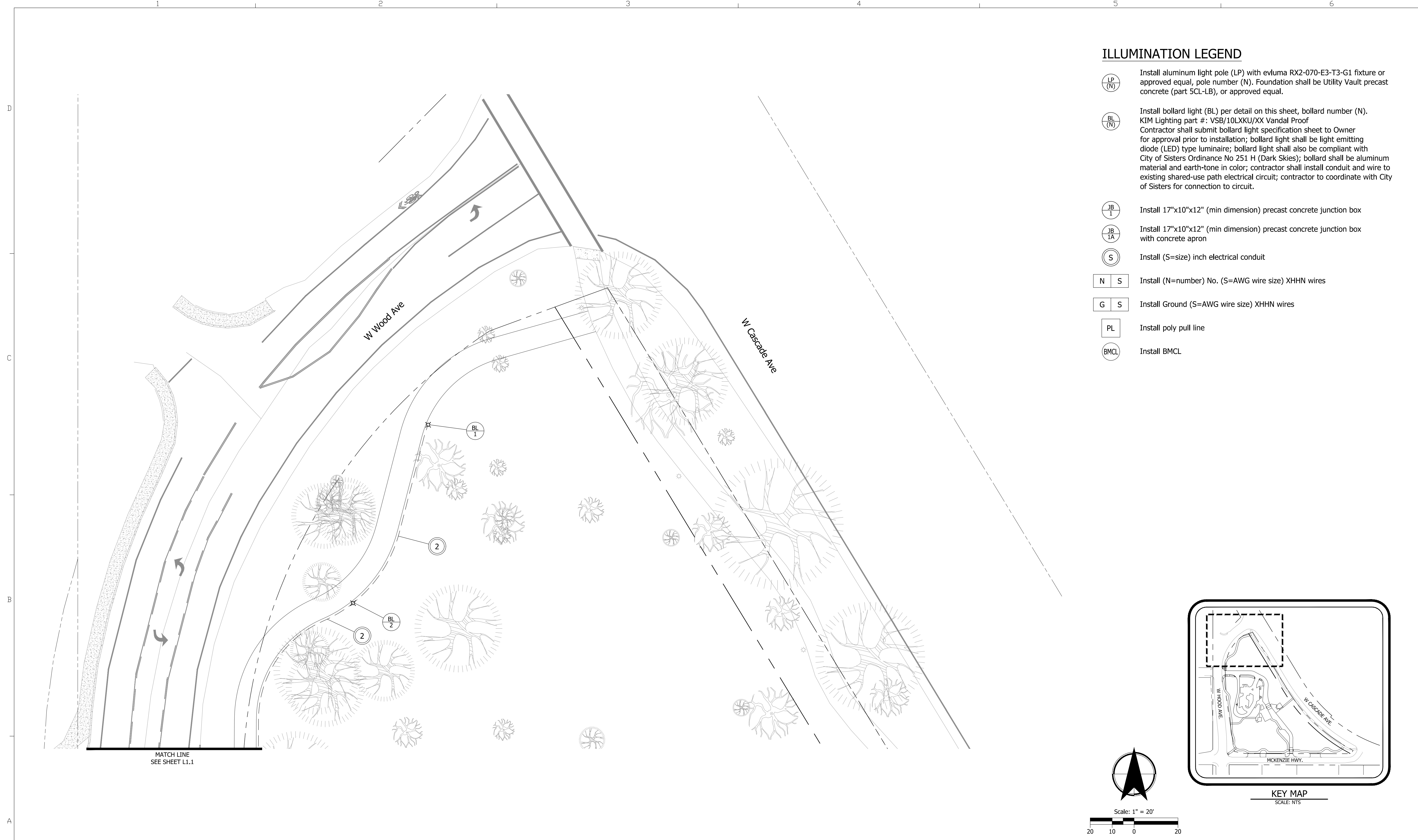







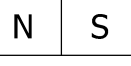
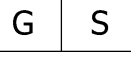


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

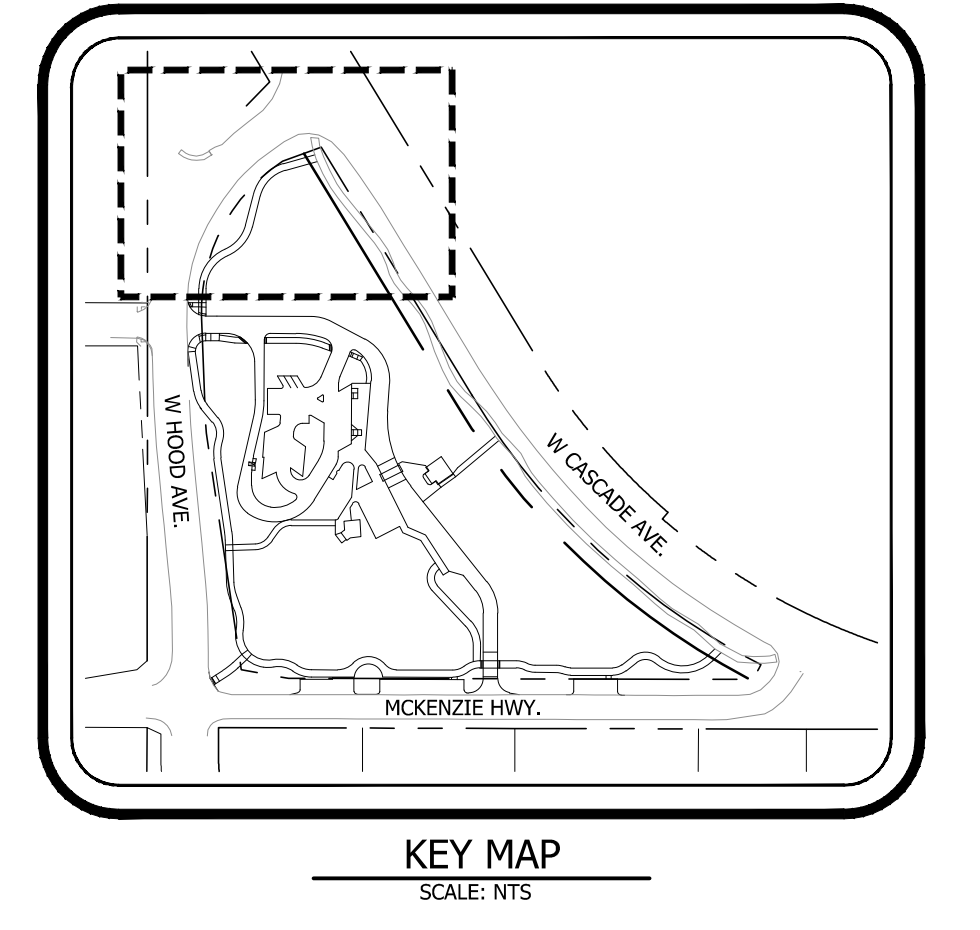
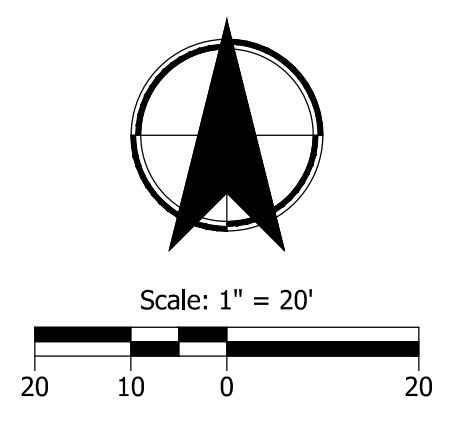


**ILLUMINATION PLAN**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE	AS SHOWN
DRAWING NAME	
SHEET	L1.3



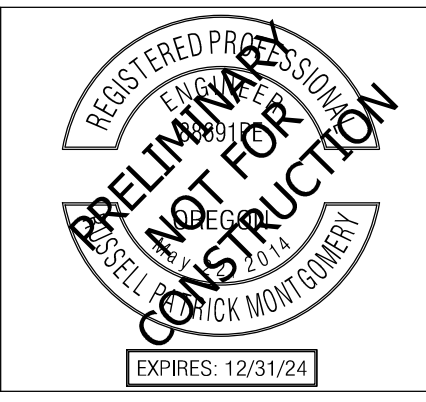
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-  Install aluminum light pole (LP) with evluma RX2-070-E3-T3-G1 fixture or approved equal, pole number (N). Foundation shall be Utility Vault precast concrete (part 5CL-LB), or approved equal.
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  -  Install Ground (S=AWG wire size) XHHN wires
  -  Install poly pull line
  -  Install BMCL



REVISIONS			
REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

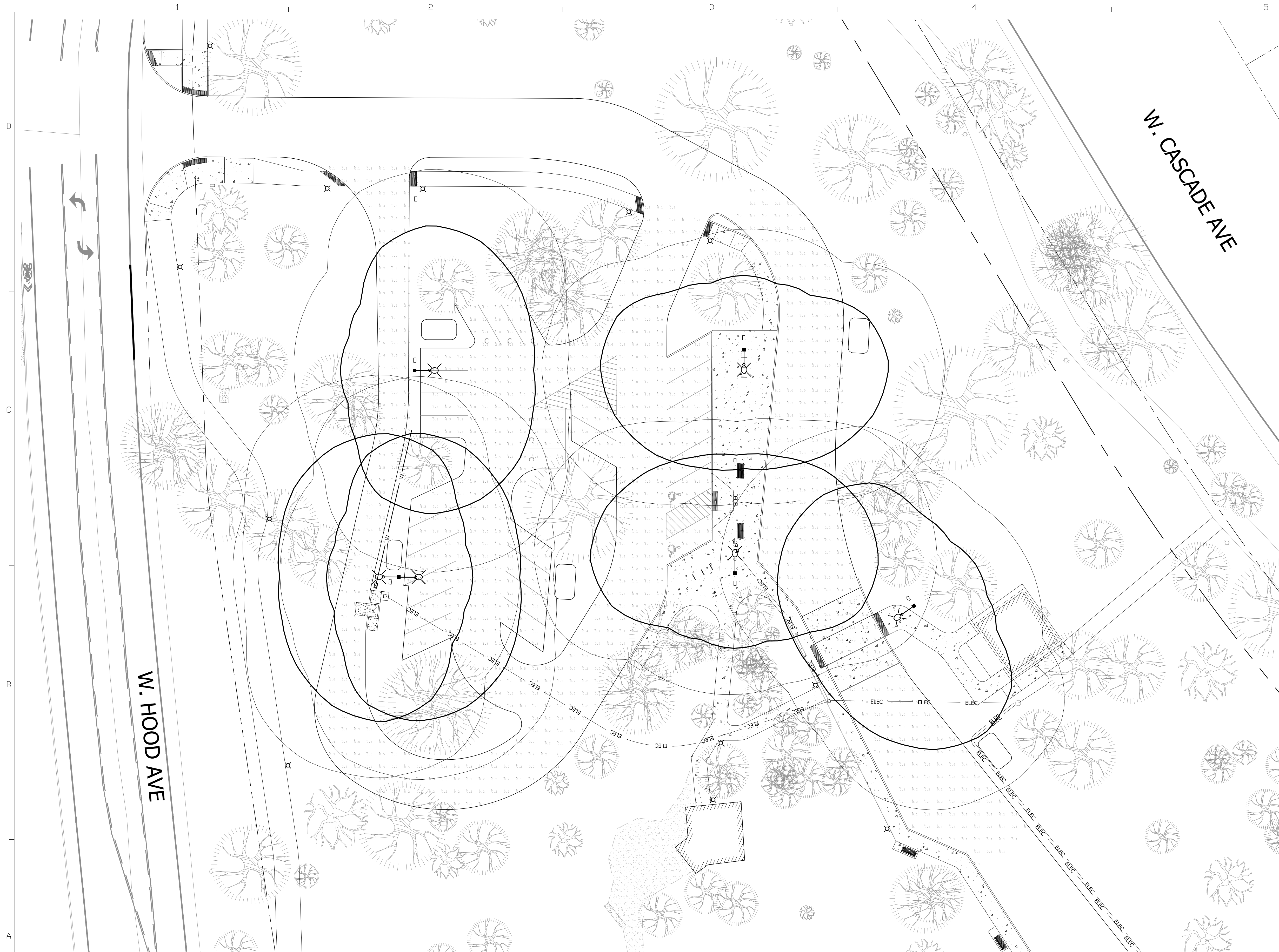


DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024

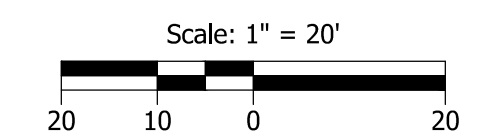
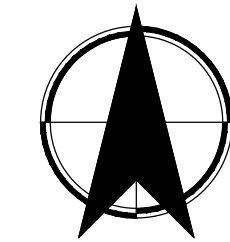


**ILLUMINATION PLAN**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE: AS SHOWN  
 DRAWING NAME:  
 SHEET: **L1.4**



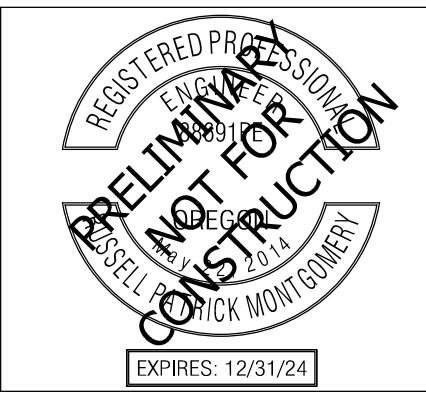
AREA	DESIGN LIGHTING RESULTS		
		Average Illuminance (fc)	Uniformity
MAIN PARKING LOT	Max: 12.0 Min: 0.1	1.9	18.8 : 1
BUS TURNOUT	Max: 7.4 Min: 0.1	1.6	15.9 : 1
MOTORHOME DUMPING	Max: 9.5 Min: 0.1	1.7	16.5 : 1



REV.	DESCRIPTION	APPR.	DATE

REFERENCE INFORMATION:

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169



DESIGN	RPM
DRAFTED	CCT/ATW
CHECKED	AMR
DATE	June 2024



**AGI LUMINAIRE CALCULATIONS**  
 EAST PORTAL MOBILITY HUB IMPROVEMENTS

SCALE AS SHOWN  
 DRAWING NAME  
 SHEET **L1.5**