Sheet List	Table
1	Cover Sheet & Index
1A	Survey Control
1B	General Notes
2A	Typical Sections
2B	Details
2B-2	Details
2B-3	Details
2C	Concrete Jointing Plan
3	Roadway & Stormwater
3A-2	Curb Ramp Details
3A-3	Curb Ramp Details
3A-4	Curb Ramp Details
3A-5	Curb Ramp Details
IL-1	Illumination Legend
IL-2	Illumination Plan
IL-3	Illumination Details
SS-1	Signing & Striping Plans
SS-2	Striping Details

Signing Details

Signing Details

Irrigation Details

Planting Plan

Site Details

Planting Details

Layout Enlargements

L2.03

L3.01

L3.02

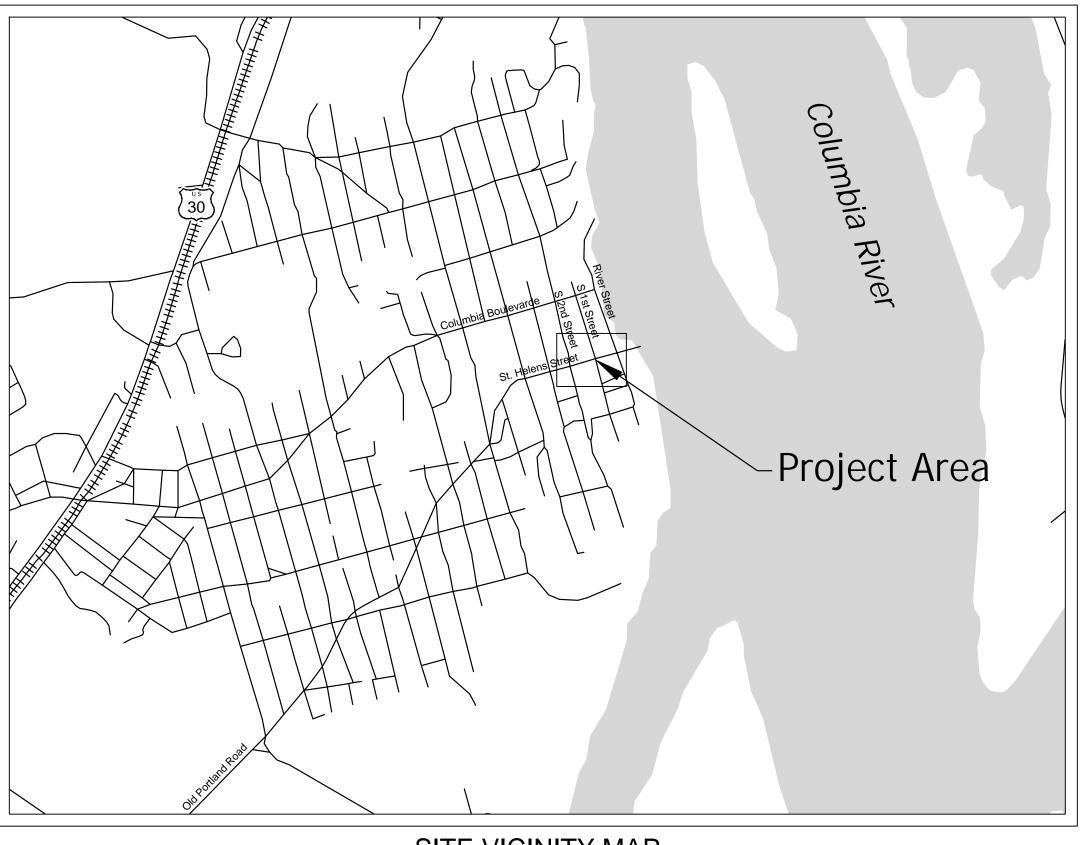
L4.00

L4.01

OWNER

S. 1st Street at St. Helens Street Intersection Improvements

June, 2022



SITE VICINITY MAP N.T.S.

SITE PLAN

CIVIL ENGINEER

City of St. Helens Contact: Sharon Darroux, PMP 265 Strand Street St Helens, OR 97051 Email: sdarroux@sthelensoregon.gov

LANDSCAPE ARCHITECT

Greenworks, PC Contact: Andrew Holder 24 NW 2nd Avenue, Suite 100 Portland, OR 97209 Email: andrewh@greenworkspc.com

Kittelson & Associates, Inc. Contact: Tony Roos, P.E., Caleb Cox, P.E. 851 SW 6th Avenue, Suite 600 Portland, OR 97204 Tel: 503-535-7415 Email: troos@kittelson.com, ccox@kittelson.com

SURVEYOR

S&F Land Services Contact: Chris Sherby, PLS 4858 SW Scholls Ferry Rd, Ste A Portland, OR 97225 Email: chris.sherby@sflands.com

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 Center Is (503) 232-1987.)

LOCATES

N.T.S.

(48 HOUR NOTICE PRIOR TO EXCAVATION)

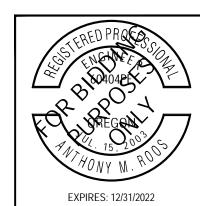
OREGON LAW REQUIRES YOU TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES FROM THE CENTER BY CALLING (503) 246-1987

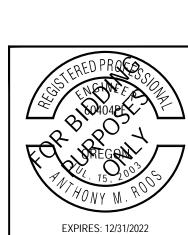
Know what's **below. Call before you dig.**

ONE CALL SYSTEM 1-800-332-2344

PUBLIC WORKS SUPERVISOR, DAVE ELDER (503) 397-3532, MUST BE NOTIFIED 48 HOURS IN ADVANCE TO COORDINATE ANY TAPS OR WATER VALVE OPERATION. THE CONTRACTOR IS NOT ALLOWED TO OPERATE ANY WATER VALVES CONTROLLING FLOW TO NEW PIPING FROM THE CITY'S POTABLE WATER SYSTEM







KITTELSON & ASSOCIATES

Submission Date: 04/22/2022 Designed: Checked: CEC AMR

PROJECT NO.

23544 St. Helens Street Improvements

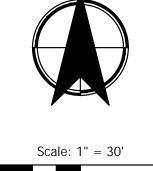
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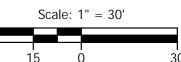
SHEET NO.

Units: International Feet.

The existing underground utilities shown herein are approximate locations only based on the field location of utility locate paint marks and physical features visible on or above the ground surface. The contractor shall determine the exact location of any and all underground utilities before beginning work. The contractor shall be fully responsible for any and all damages arising out of his/her failure to exactly locate and protect all existing utility facilities.

Right-of-way lines provided as a reference only based on the City of St. Helens GIS database. Right-of-way has not been resolved by the Surveyor or Engineer.





SHEET NO. 1A

KITTELSON & ASSOCIATES

Submission Date:

04/22/2022 Designed: Checked: CEC AMR

PROJECT NO. 23544

S 1st Street at St. Helens Street Intersection Improvements

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT AND APPLICABLE REGULATIONS. SPECIFICATIONS. CODES, AND REQUIREMENTS OF CITY OF ST. HELENS, THE OREGON STATE PLUMBING SPECIALTY CODE (UPC), AND THE OREGON STATE STRUCTURAL SPECIALTY CODE (OSSC).
- 2. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND AS NECESSARY TO PROVIDE A COMPLETED PROJECT.
- 3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES PRIOR TO COMMENCING WORK ON THIS PROJECT.
- 4. THE CONTRACTOR SHALL KEEP A COPY OF ALL REQUIRED PERMITS AND AN APPROVED SET OF PLANS WITH ALL APPROVED REVISIONS ON THE PROJECT SITE AT ALL TIMES.
- 5. THE EXISTING AND APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE DRAWINGS WERE DETERMINED BY A SEARCH OF AVAILABLE PUBLIC RECORDS AND AS-BUILTS. THE LOCATIONS AND DEPTHS OF THESE UTILITIES ARE FROM THESE RECORDS AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. NO RESPONSIBILITY IS ASSUMED BY EITHER THE CITY OR THE ENGINEER FOR ACCURACY OR COMPLETENESS OF THESE LOCATIONS.
- 6. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THIS SITE AND IN ADJACENTSTREETS. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THIS DRAWING, SHALL BE REPAIRED / REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER. EXISTING SURFACE FEATURES AND FENCING DAMAGED BY CONTRACTOR SHALL BE REPLACED IN KIND TO THE SATISFACTION OF THE CITY.
- 7. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO STARTING ANY WORK.
 - ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH ON OAR 952-001-0010 THROUGH OAR 52-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER 24 HOURS BEFORE COMMENCING CONSTRUCTION IN THEIR VICINITY.
- 8. THE CONTRACTOR SHALL NOTIFY ALL COMPANIES AND AGENCIES WITH UNDERGROUND FACILITIES IN THE PROJECT AREA FOR 24 HOURS BEFORE COMMENCING CONSTRUCTION IN THEIR VICINITY.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF BURIED AND OVERHEAD UTILITIES. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER.
- 10. THE INSTALLATION OF NEW OR RELOCATION OF EXISTING ELECTRICAL, TELEPHONE, GAS, AND CABLE SERVICE SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF UTILITY TRENCHES, CONDUIT, VAULTS, PADS, PEDESTALS, AND UTILITY TRENCH BACKFILL IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND PLANS OF SERVICING UTILITIES (ELECTRICAL, TELEPHONE, GAS, AND CABLE).
- 12. ALL EXISTING SITE CONDITIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE FROM A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS. CONTRACTOR SHALL CONFIRM BENCHMARK LOCATION AND ELEVATION WITH SURVEYOR.
- 13. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE FOR REFERENCE ONLY. THESE PLANS ARE NOT MEANT TO SERVE BOUNDARY SURVEY PURPOSES.
- 14. ANY ALTERATION OR VARIANCE FROM THESE PLANS, EXCEPT MINOR FIELD ADJUSTMENTS NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL BE APPROVED BY THE ENGINEER AND APPLICABLE REGULATORY AGENCY REPRESENTATIVE.
- 15. ANY CONSTRUCTION OBSERVATION BY CITY OF ST. HELENS, OR THE ENGINEER, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND REGULATORY AGENCY REQUIREMENTS.
- 16. APPROVED EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, AND PERSONNEL NECESSARY TO MAINTAIN SUCH EROSION PROTECTION MEASURES. ANY DAMAGE CAUSED BY EROSION SHALL BE CORRECTED BY THE CONTRACTOR AT ONCE.
- 17. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- 18. ALL OPEN CUTTING OF EXISTING STREETS SHALL BE PATCHED WITH A.C., COLD (TEMPORARY) OR HOT MIX, AT THE CLOSE OF EACH WORK DAY. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT.
- 19. DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL STUMPS AND VEGETATION DEBRIS. CONFORMANCE WITH ALL REGULATIONS AND PERMITTING REQUIREMENTS FOR SUCH WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF EXISTING UTILITIES OR PROPER FILLING OF THE UTILITIES (SEPTIC TANKS, LINES, ETC.) IF THEY ARE TO REMAIN. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE STATE OF OREGON WATER MASTER 503-681-7018 TO APPROVE THE FILLING OF ANY SEPTIC TANKS AND REMOVAL OF ANY EXISTING WATER WELLS.
- 21. ALL SURVEY MONUMENTS ON THE SUBJECT SITE, OR THAT MAY BE SUBJECT TO DISTURBANCE WITHIN THE CONSTRUCTION AREA, OR THE CONSTRUCTION OF ANY OFF-SITE IMPROVEMENTS SHALL BE ADEQUATELY REFERENCED AND PROTECTED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. IF THE SURVEY MONUMENTS ARE DISTURBED, MOVED, RELOCATED, OR DESTROYED AS A RESULT OF ANY CONSTRUCTION, THE PROJECT SHALL, AT IT'S COST, RETAIN THE SERVICES OF A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF OREGON TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY OREGON STATE LAW. A COPY OF ANY RECORDED SURVEY SHALL BE SUBMITTED TO STAFF.

GENERAL UTILITY NOTES

- ABANDONED STORM AND SANITARY SEWERS SHALL BE REMOVED IN THEIR ENTIRETY OR PIPE FULLY GROUTED. INSPECTION IS REQUIRED.
- THE DEQ IS OPPOSED TO ANY OIL, GREASE, GASOLINE, ETC. DRAINED INTO ANY SANITARY SEWER OR STORM SEWER. DEQ WANTS ALL OIL, GASOLINE, GREASE, ETC. TO BE TREATED AS ANY OTHER HAZARDOUS WASTE WITH ON-SITE CONTAINMENT AND REMOVAL BY LICENSED HAZARDOUS WASTE DISPOSAL PROFESSIONALS. THE DEQ MAY ISSUE CITATIONS FOR INTRODUCING OIL, GAS, ETC. INTO A DRAINAGE SYSTEM THAT CONNECTS TO THE SANITARY SEWER OR THE STORM SEWER. THE FACT THAT AN OIL/WATER SEPARATOR IS INSTALLED INLINE WOULD NOT MAKE A DIFFERENCE. IT IS RECOMMENDED THAT THE DRAINS TO THE OIL/WATER SEPARATOR NOT BE INSTALLED.
- THE UTILITY TAPS TO SERVE THIS PROJECT WILL BE INSPECTED UNDER THE ASSOCIATED PUBLIC IMPROVEMENT
- 4. THE EXCAVATION CONTRACTOR SHALL CALL THE OREGON UTILITY NOTIFICATION CENTER AT 503-232-1987 AT LEAST 48 HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS BEFORE BEGINNING EXCAVATION. 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 ADMINISTRATIVE CENTER.

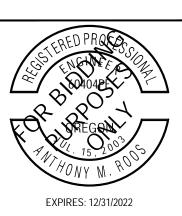
GRADING

- PROJECT GRADING LIMITS SHALL BE ALL PROPERTY LINES AND STREET RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE GRADING PLANS.
- 2. STRAIGHT GRADES SHALL BE CONSTRUCTED BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN, UNLESS OTHERWISE NOTED.
- ALL PROPOSED ELEVATIONS SHOWN SHALL BE CONSIDERED TO BE FINISH SURFACE ELEVATIONS UNLESS OTHERWISE NOTED. ALL SURFACES SHALL BE GRADED SMOOTH AND FREE OF IRREGULARITIES THAT MIGHT ACCUMULATE SURFACE WATER.
- 4. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE.
- 5. CONTRACTOR TO REMOVE ALL UNSUITABLE MATERIAL, DEBRIS, AND ORGANIC MATERIAL WITHIN GRADING AND FILL LIMITS PRIOR TO FILL PLACEMENT. NEW FILL MATERIAL SHALL BE BENCHED INTO EXISTING GROUND IN ACCORDANCE WITH RECOMMENDATIONS IN THE GEOTECHNICAL REPORT
- 6. THE REMOVAL OF UNSUITABLE MATERIAL SHALL BE DONE IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER. UNSUITABLE MATERIAL SHALL BE DISPOSED OF AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF SUCH MATERIAL IS REMOVED FROM THE SITE IT SHALL BE REMOVED AT THE CONTRACTOR'S SOLE EXPENSE.7. ALL CUT OR FILL SLOPES SHALL BE CONSTRUCTED AT NO STEEPER THAN TWO (2) HORIZONTAL TO ONE
- VERTICAL UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIFIED IN THE GEOTECHNICAL REPORT.
- IF SPRINGS OR GROUND WATER ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL ADVISE THE GEOTECHNICAL ENGINEER AND THE CIVIL ENGINEER OF THE CONDITION FOUND AND COORDINATE CONSTRUCTION ACTIVITIES IN A MANNER THAT WILL ALLOW THE ENGINEERS TIME TO REVIEW THE SITUATION AND PREPARE A PLAN TO PROPERLY DISPOSE OF THE WATER ENCOUNTERED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL CATCH BASINS, CLEANOUTS, MANHOLES, VAULTS. ETC., THAT ARE AFFECTED BY CONSTRUCTION AND/OR FILL TO FINISH GRADE, STORM DRAIN INLET STRUCTURES SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTUREWITHOUT PONDING. 10. ORGANIC MATERIAL (TREES BRUSH, ROOTS, STUMPS, ETC.) SHALL BE REMOVED FROM THE SITE. STRIPPING SHALL GENERALLY BE 2 TO 5 INCHES, BUT MAY BE DEEPER IN WOODED AREAS. UNSUITABLE EXCESS STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR. REMOVAL OF TOPSOIL WILL BE IN THE ORDER OF 12 TO 24 INCHES THICK. SEE GEOTECH REPORT FOR STRIPPING AND TOPSOIL REMOVALS.



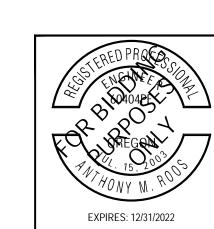
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Submission Date: 04/22/2022 Designed: Checked Drawn: CEC CEC AMR PROJECT NO. 23544



. Helens Street

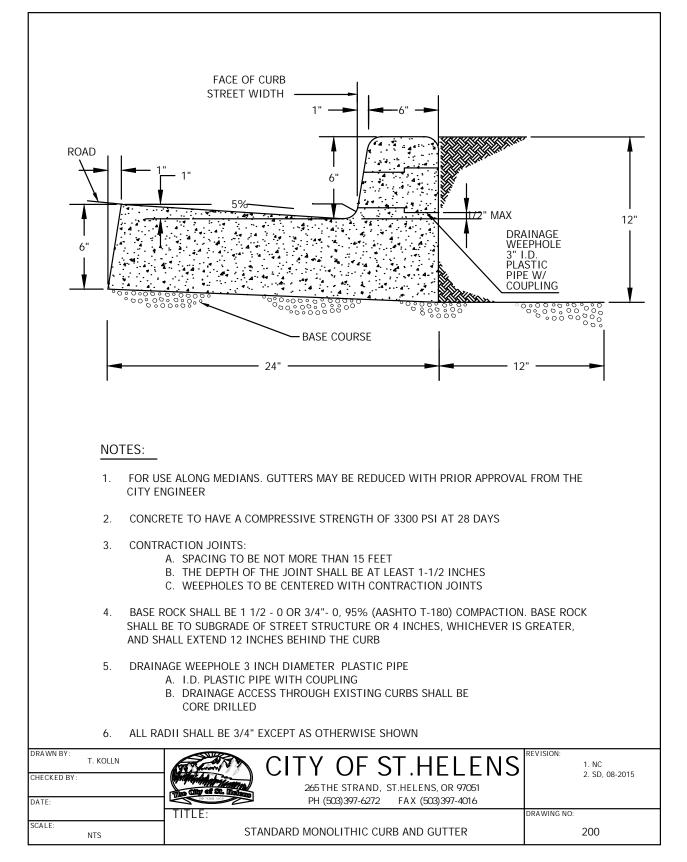
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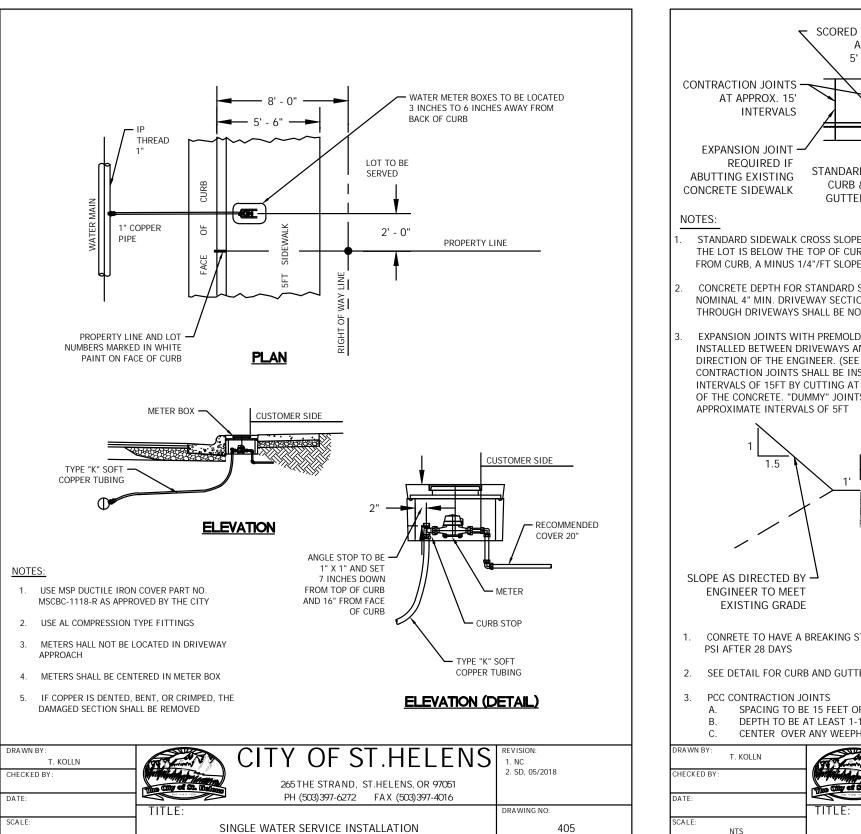


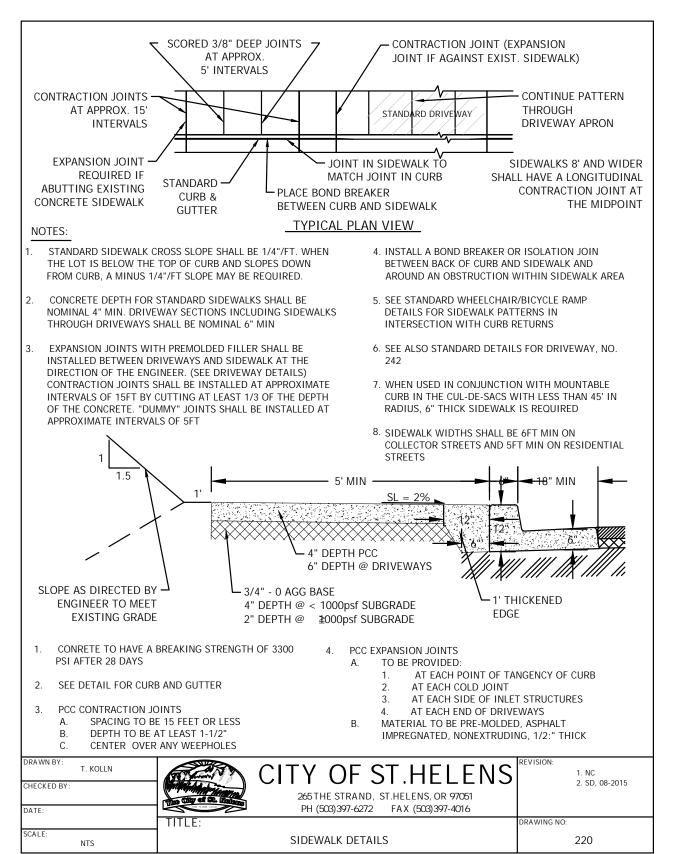
Submission Date: 04/22/2022 Designed: Checked: CEC AMR CEC PROJECT NO. 23544 1st Street at St. Helens Street ntersection Improvements SHEET NO.

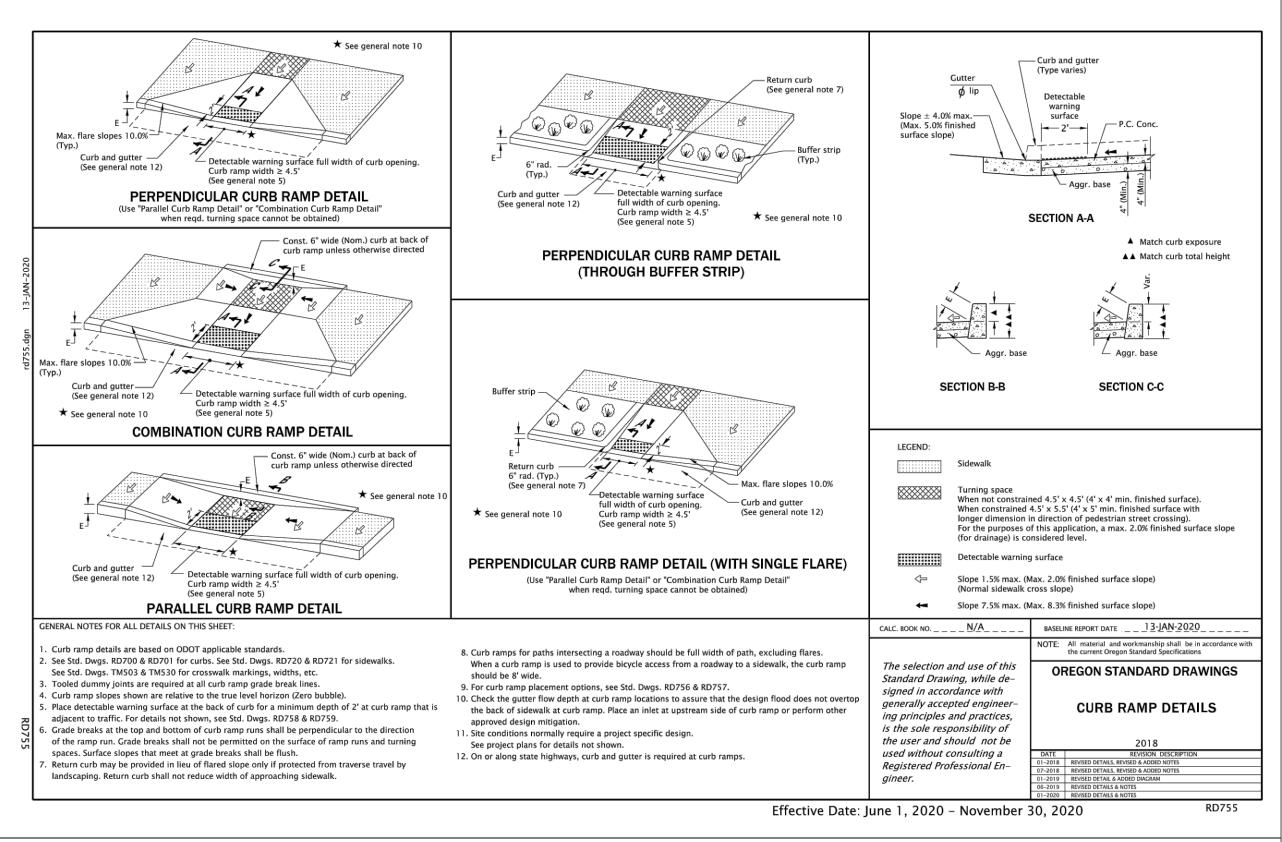
KITTELSON & ASSOCIATES

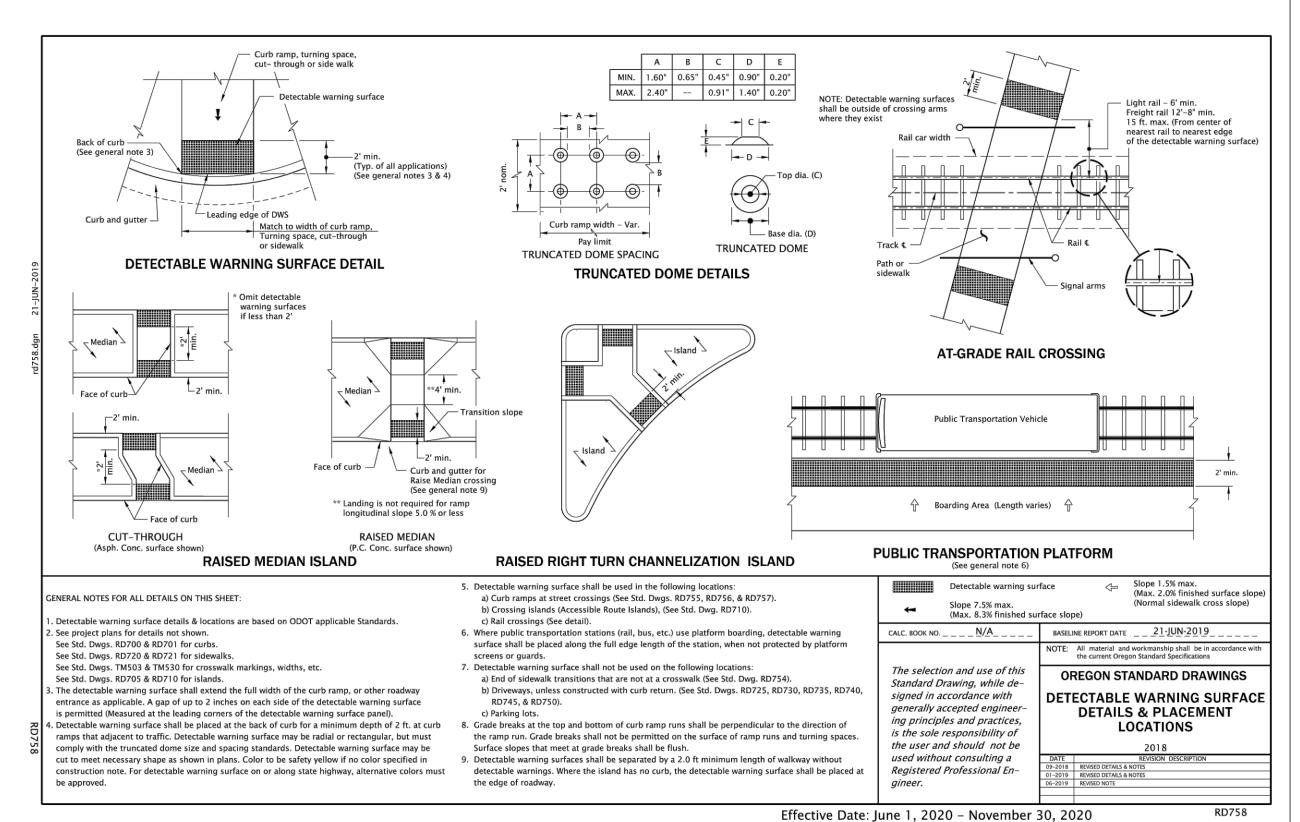
2A

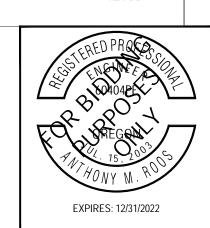












Catey Of St. Helens

SW ALDER STREET, SUITE 700

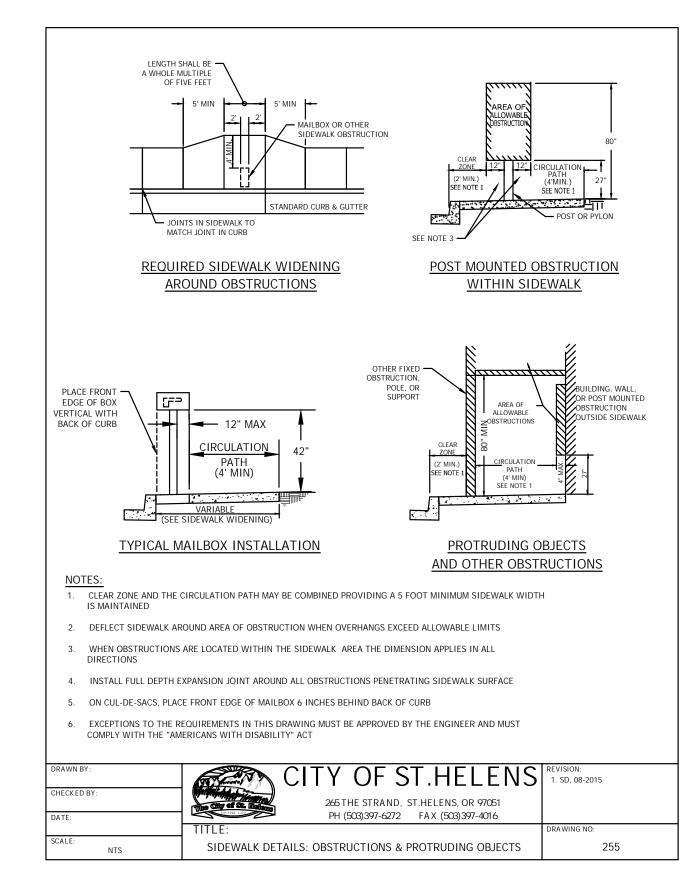
Submission Date:
04/22/2022

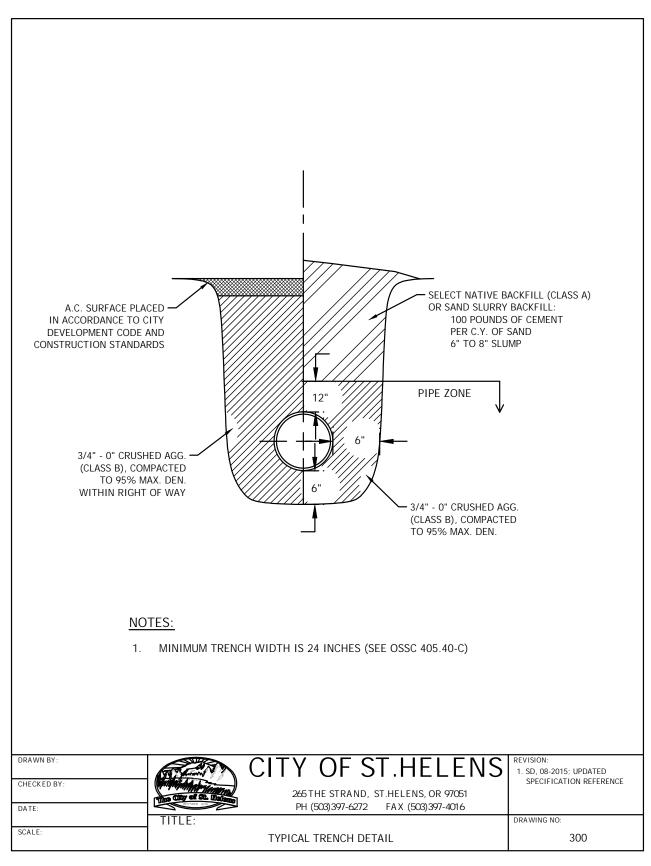
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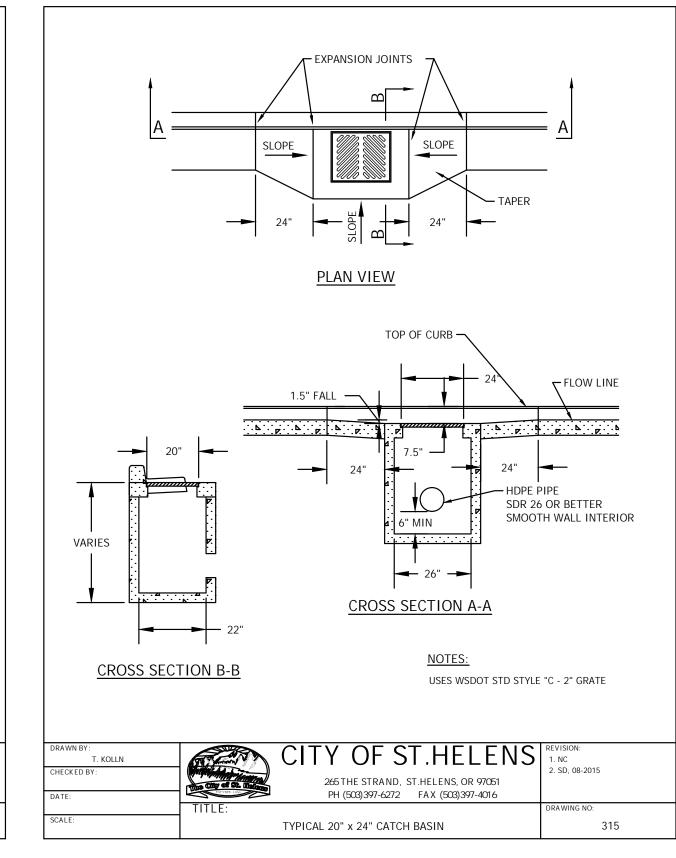
PROJECT NO.
23544

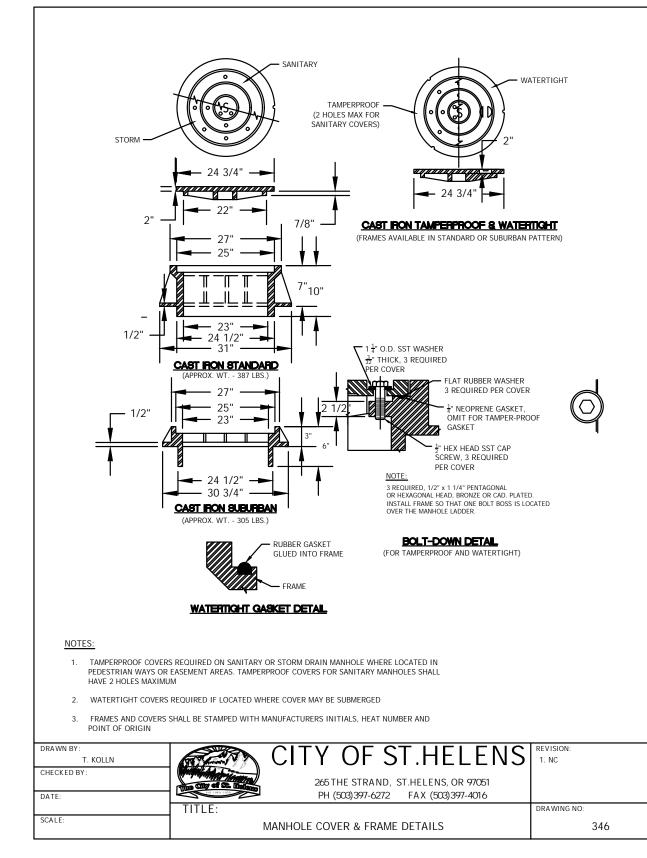
Street at St. Helens Street ersection Improvements

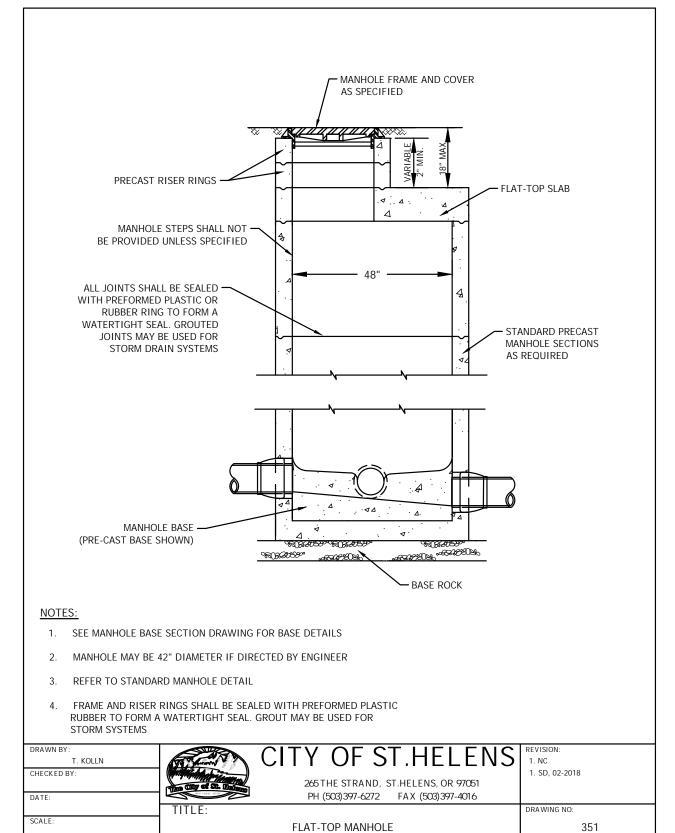
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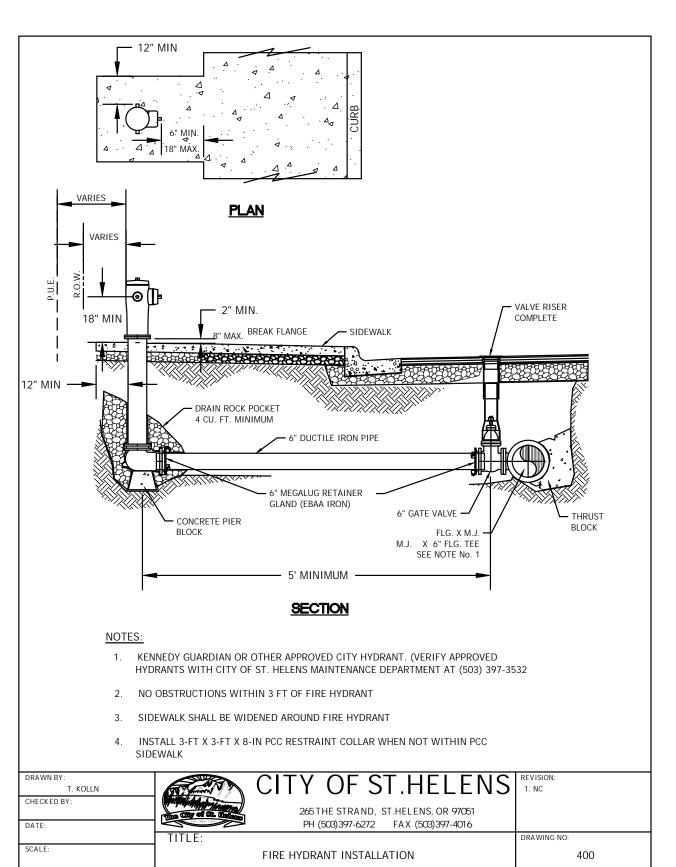


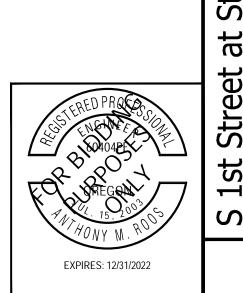


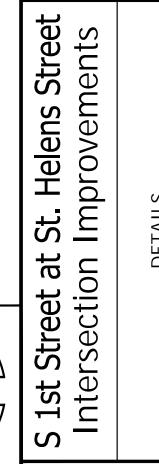












Submission Date:

Drawn:

CEC

04/22/2022

CEC

PROJECT NO.

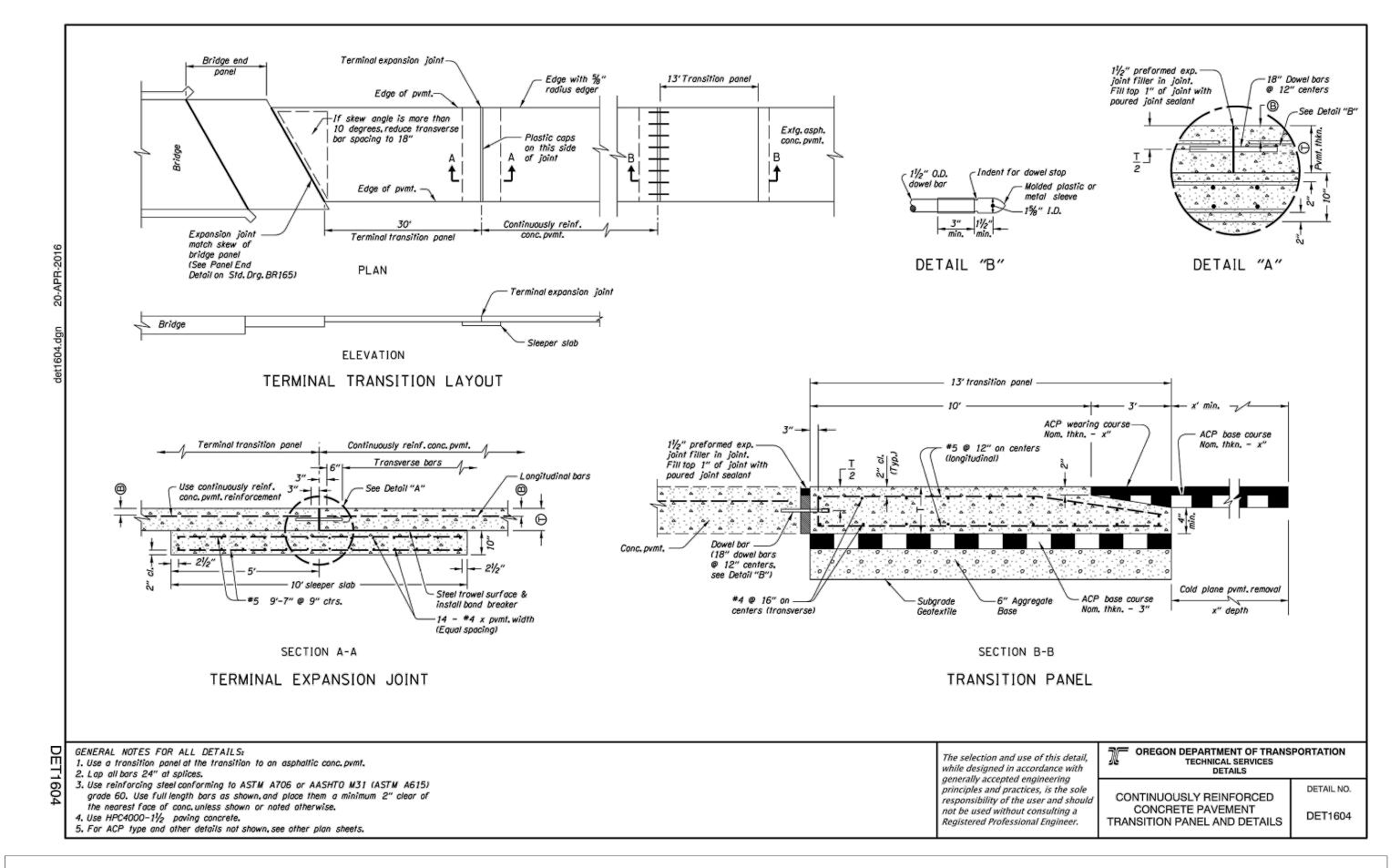
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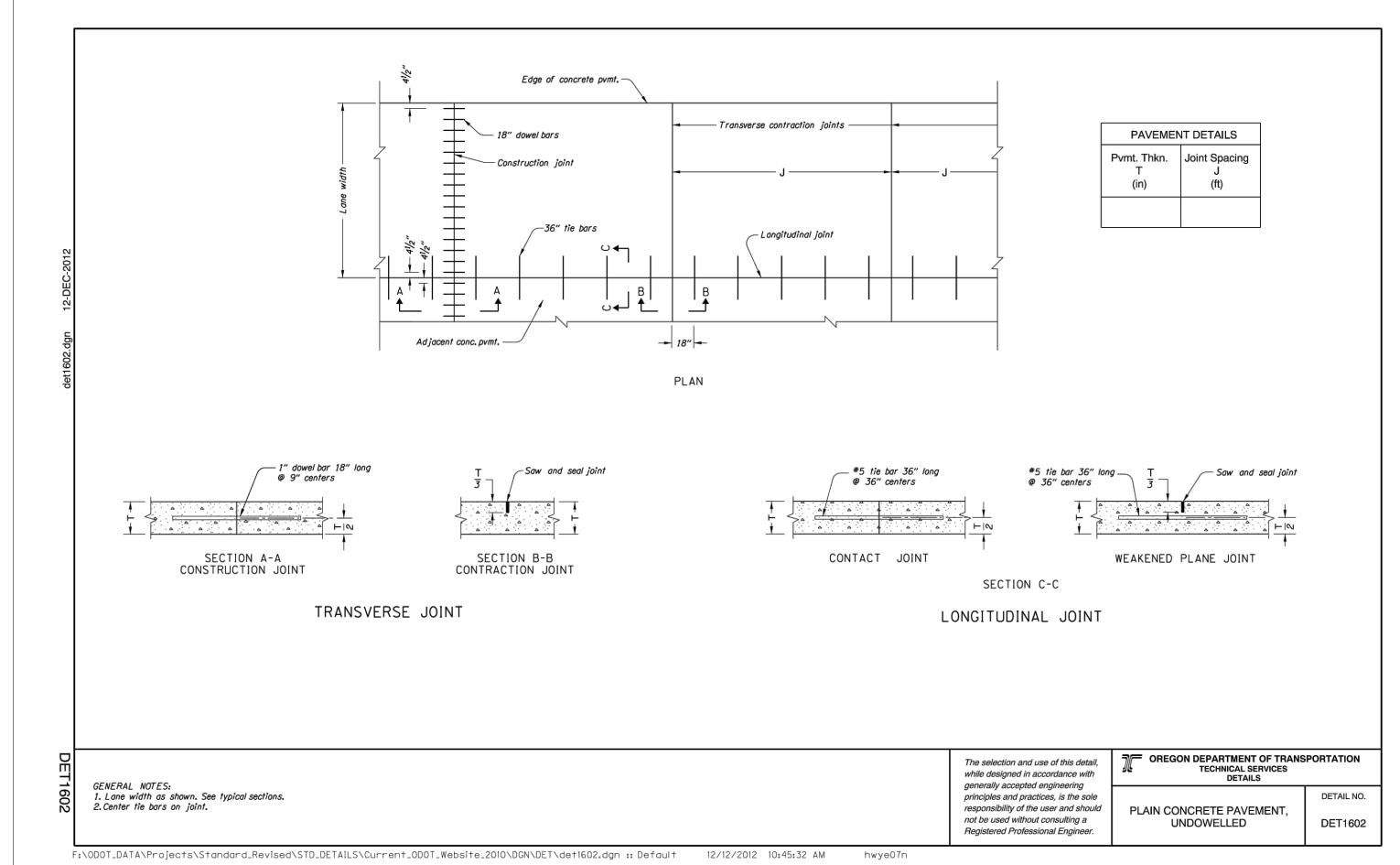
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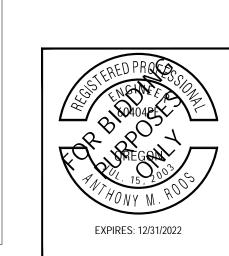
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KITTELSON & ASSOCIATES

SHEET NO. 2B-2





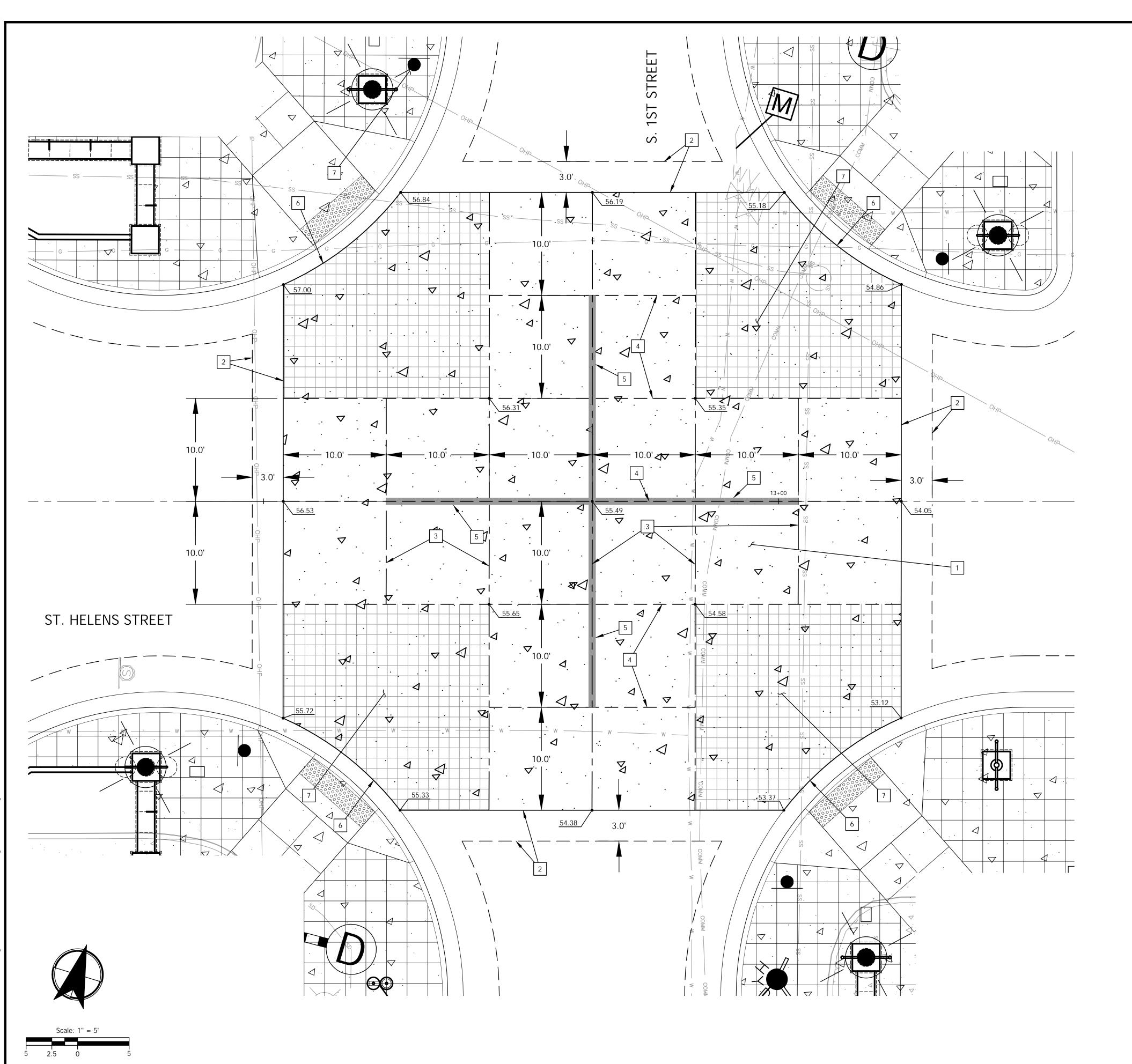


KITTELSON & ASSOCIATES

Submission Date: 04/22/2022 Designed: Checked: CEC AMR Drawn: CEC PROJECT NO. 23544

S 1st Street at St. Helens Street Intersection Improvements

SHEET NO. 2B-3

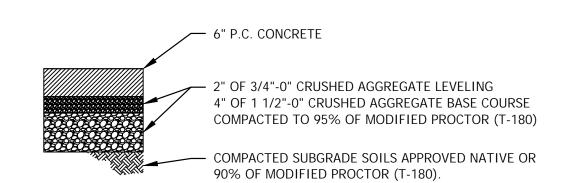


CONCRETE PAVING CONSTRUCTION NOTES

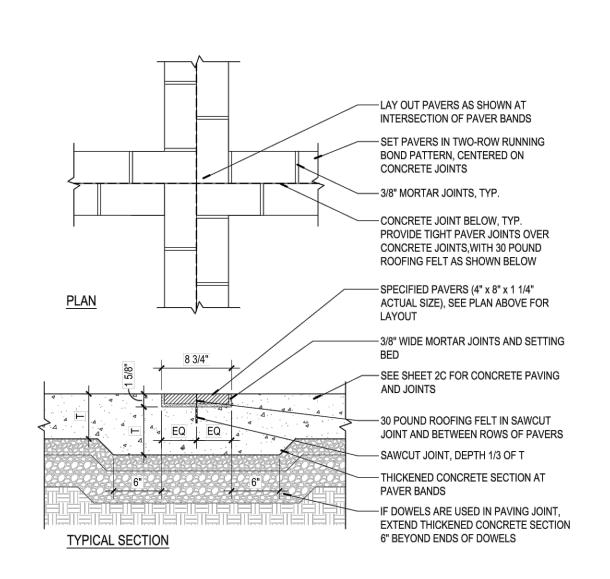
- Construct Plain Concrete Pavement per detail below. See landscape plans for scoring pattern dimensions.
 - Edge of concrete pavement. Construct concrete transition panel per ODOT detail 1604 on sheet 2B-3.
 - Construct transverse joint (2" deep) Per ODOT standard detail 1602 on sheet 2B-3.
- Construct longitudinal joint (2" deep) Per ODOT standard detail 1602 on sheet 2B-3.
- Construct unit paver band. See detail on this
- Construct isolation joint (full depth). Isolation joint to be filled with 30 pound roofing felt.
- Construct steel reinforcement with #4 deformed bar at 12" OC spacing. Do not tie to adjacent slabs.

LEGEND

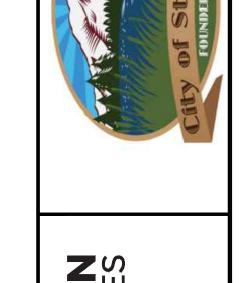
LONGITUDINAL JOINT (2" DEEP)
 TRANSVERSE CONSTRUCTION JOINT (2" DEEP)
 UNIT PAVER BAND (SEE LANDSCAPE PLANS)
 AREA OF CONCRETE WITH STEEL REINFORCING



P.C. CONCRETE SECTION



UNIT PAVER BAND



KITTELSON

& ASSOCIATES

610 SW ALDER STREET, SUITE 700
PORTLAND, OR 97205

Submission Date:
04/22/2022

Drawn: Designed: CEC CEC AMR

PROJECT NO.
23544

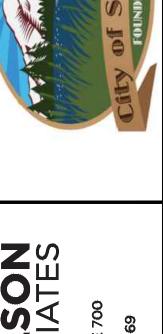
EXPIRES: 12/31/2022

S 1st Street at St. Helens Street
Intersection Improvements
CONCRETE JOINTING PLAN

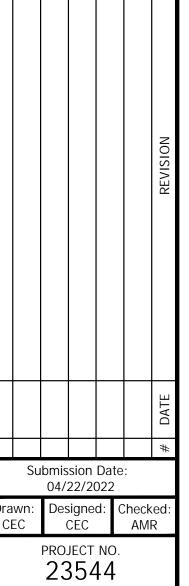
Plot Stamp: 6/27/2022 12:21:00 PM - Caleb Cox File: H:\23\23544 - 1st & St.Helens\design_CD\CD-2C-Concrete Jointing Plan-23544

STREET CONSTRUCTION NOTES

- Area of 2 inch asphalt grind and inlay.
- Sawcut and remove existing asphalt
- Remove existing concrete sidewalk, curbs, and curb ramps.
- Existing utility pole to be removed by owner. Contact Brooke Cisco with CRPUD at 971-225-8328
- Preserve and protect existing curb and sidewalk.
- Sign equipment. See signing and striping plans.
- Adjust water valve to box to grade.
- Construct sidewalk with 4 ft x 4 ft scoring pattern. See City of St. Helens std. dwg. 220 on sheet 2B for details. See sheets 3A-2 thru 3A-5 for detailed grading.
- Construct sidewalk with 2 ft x 2 ft scoring pattern. See City of St. Helens std. dwg. 220 on sheet 2B for
- Construct curb and gutter. See City of St. Helens std. dwg. 200 on sheet 2B for details. See detailed grading sheets 3A-2 thru 3A-5 for gutter counter slope requirements.
- Construct perpendicular curb ramp with charcoal grey truncated domes per ODOT Std Dwg. RD 916. See sheets 3A-2 thru 3A-5 for detailed grading.
- Construct concrete driveway with 6" thick concrete over 6" thick aggregate base. See sheets 3A-2 thru 3A-5 for detailed grading.
- Remove and install new fire hydrant STA. 13+01.25, 54.35' RT. Install EJ model with internal Storz Cap or approved equal. Connect new hydrant to existing lateral and retain existing gate valve and valve riser. See details on sheet 2B-2. Top of landscape curb elev. = 53.85'
- Landscape features. See Landscaping Plans.
- Lighting equipment. See lighting plans.
- Adjust sanitary sewer manhole to grade.
- Construct curb per City of St. Helens std. dwg. 210. See detailed grading sheets 3A-2 thru 3A-5 details.
- Install 1" copper pipe, water meter, and water meter box per details on sheet 2B-3. See landscape plans for irrigation details.
- Install drinking fountain (City furnished).
- Use preformed joint filler between new sidewalk and face of building.
- Replace 2 ft wide section of asphalt to match finish grade of new sidewalk and transition grade to parking lot.
- Install inlet protection.
- Location of future gateway pole.
- Concrete pavement. See Sheet 2C for details



KITTELS(& ASSOCIA



: St. Helens Street Improvements Street at S _

SHEET NO.

STORM CONSTRUCTION NOTES

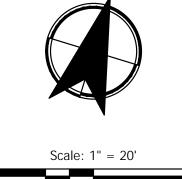
TOP OF CURB: 56.10

IE IN (8"N) = 53.13

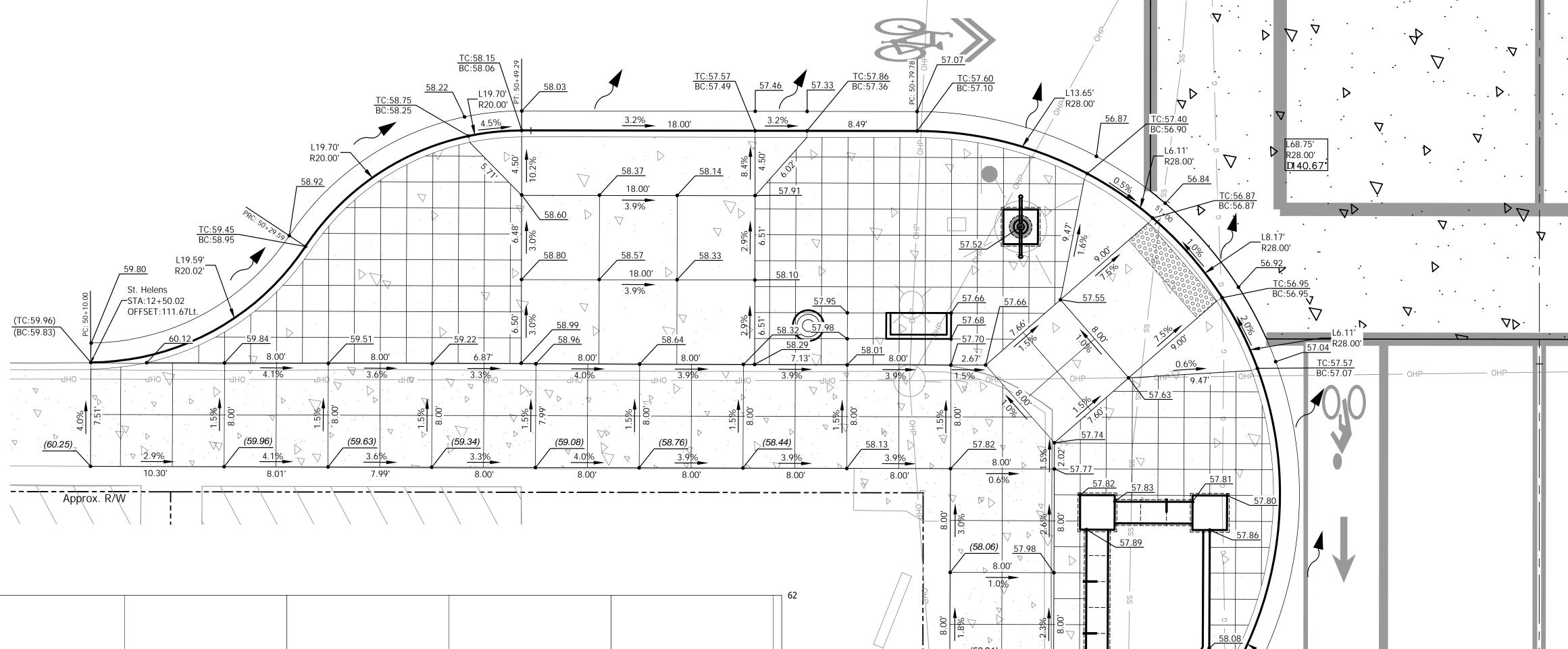
TOP OF CURB: 57.36

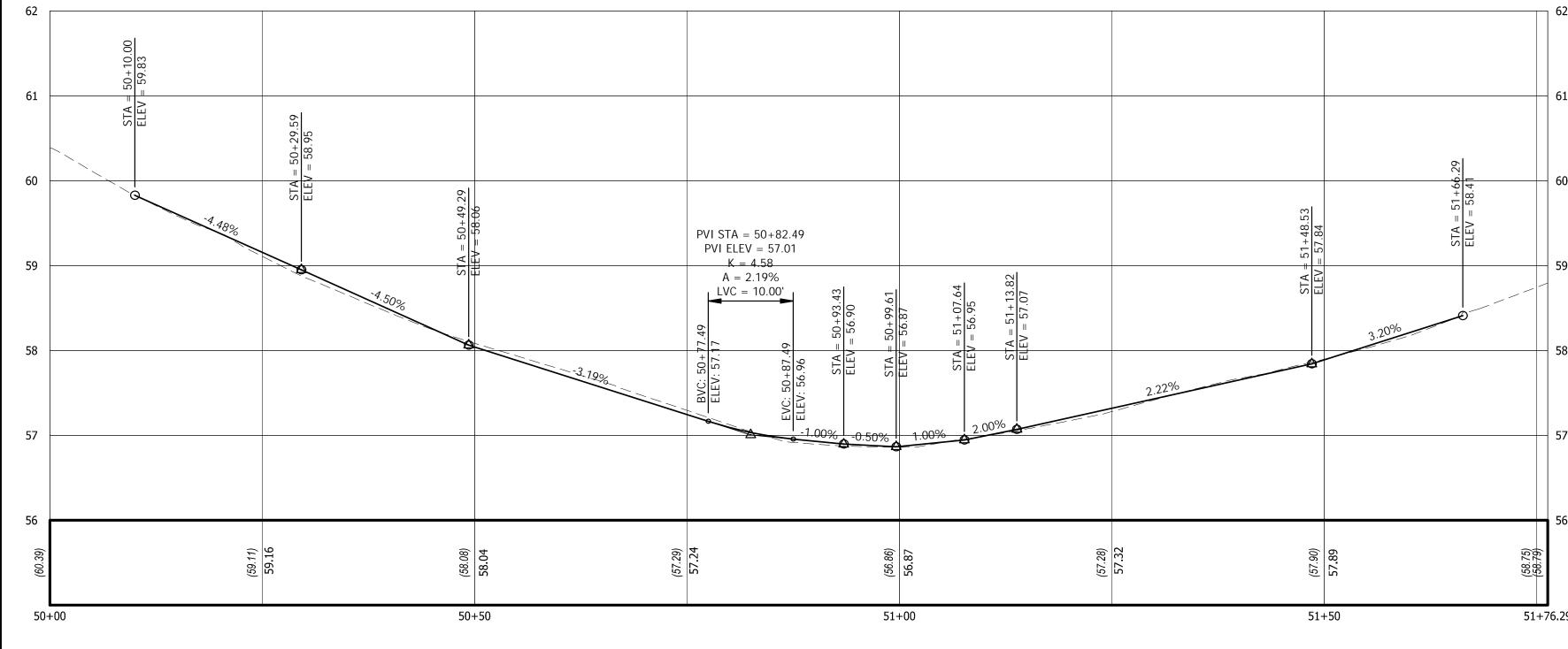
Install 20 inch x 24 inch catch basin per City of St. Helens Standard Dwg. No. 315 on sheet 2B-2.

Remove existing catch basin and install flat-top manhole per City of St. Helens Standard Dwg. No. 351 on sheet 2B-2.



- Contractor shall be responsible for meeting all Americans with Disabilities Act (ADA) requirements as defined by the Public Rights-of-Way Accessibility Guidelines (PROWAG).
- 2. Details and dimensions shown are approximate. Slopes hold over elevations. Contractor shall take all necessary field measurements to verify ADA compliance and notify the engineer if ramps cannot be constructed as shown.
- 3. Refer to ODOT STD. DWG RD 755 for ADA requirements
- 4. Contractor shall notify Engineer and City of St. Helens 24 hours prior to concrete pours to inspect forms and verify ADA standards can be achieved.
- Contractor shall protect freshly poured concrete from vandalism or other damage for a minimum of 24 hours or until cured enough to support typical use, whichever is longer. Any concrete damage within this time period shall be repaired at no cost to the City.
- Contractor shall submit traffic control plans to the City of St. Helens for approval prior to construction. Two way traffic with minimum lane widths of 10 feet must be maintained for the duration of construction.
- Contractor shall submit temporary pedestrian access route plans to the City of St. Helens for approval prior to construction. Pedestrian detour routes must be no longer than 1 block length. The maximum closure time for any single curb ramp shall be one week.
- Contractor shall notify engineer once ramps are completed for a post ramp construction inspection.
- 9. Concrete shall be placed only during periods when it will not be damaged by rain. Contractor shall protect uncured concrete from all forms of precipitation and inclement weather.





CURB RETURN PROFILE

Horizontal Scale: 1"= 10' Vertical Scale: 1" = 1'

LEGEND TC = Top of Curb Elevation BC = Bottom of Curb Elevation FL = Flow Line Elevation (XXX.XX) = Match Extg. Grade

= Flow Direction

7.91'

St. Helens STA:12+02.71 OFFSET:37.60Lt.

∇ 5.4% ▷

St. Helens Street Improvements

Stree

Helens

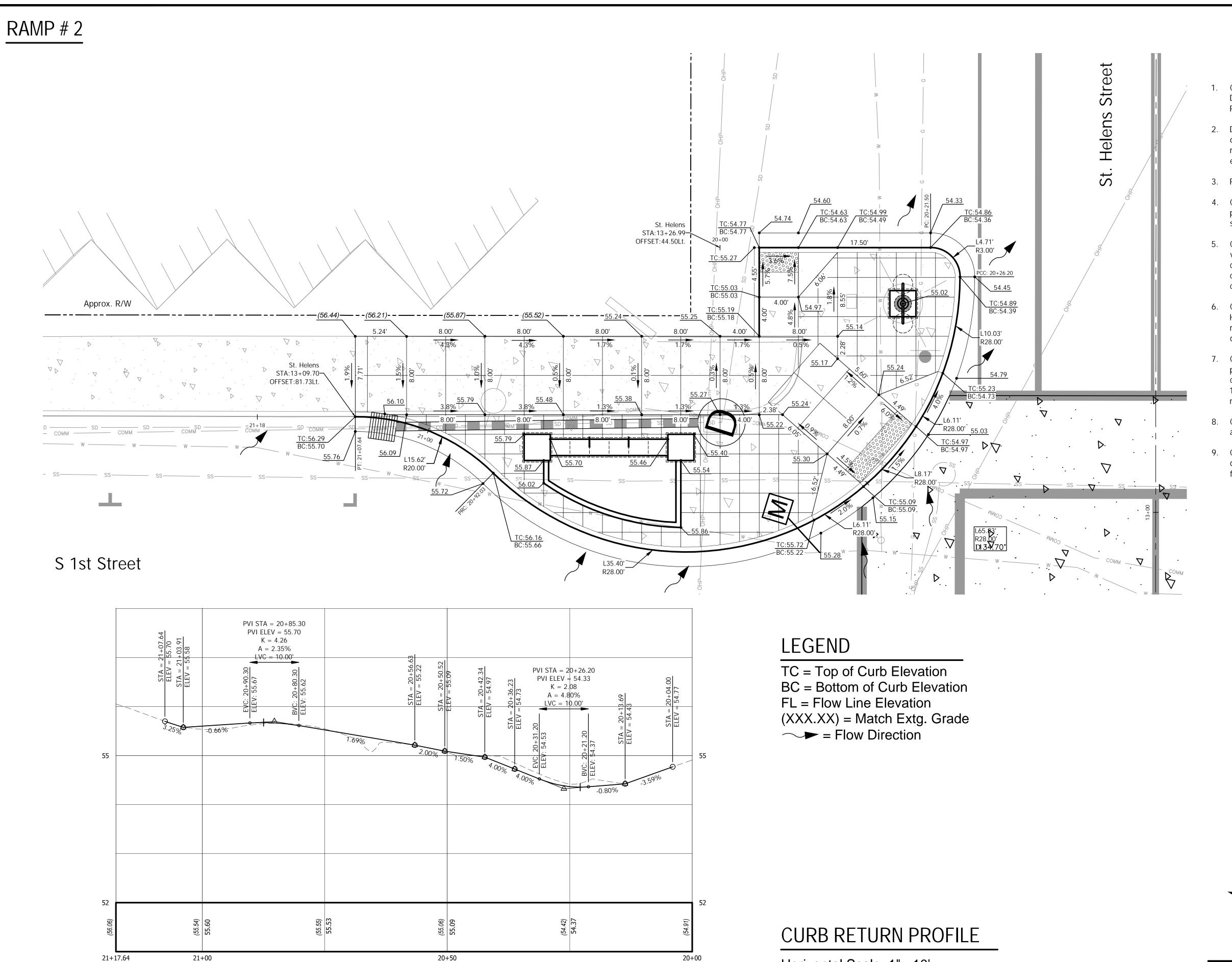
KITTELS(& ASSOCIA

SHEET NO. 3A-2

Submission Date:

04/22/2022

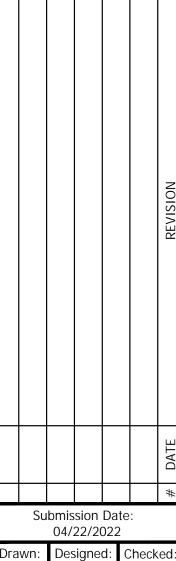
PROJECT NO. 23544



- 1. Contractor shall be responsible for meeting all Americans with Disabilities Act (ADA) requirements as defined by the Public Rights-of-Way Accessibility Guidelines (PROWAG).
- 2. Details and dimensions shown are approximate. Slopes hold over elevations. Contractor shall take all necessary field measurements to verify ADA compliance and notify the engineer if ramps cannot be constructed as shown.
- 3. Refer to ODOT STD. DWG RD 755 for ADA requirements
- 4. Contractor shall notify Engineer and City of St. Helens 24 hours prior to concrete pours to inspect forms and verify ADA standards can be achieved.
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KITTELSON & ASSOCIATES



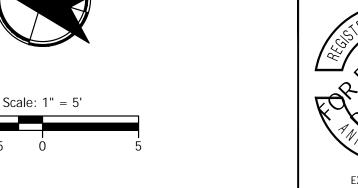
Designed: Checked: CEC AMR PROJECT NO.

23544

S 1st Street at St. Helens Street Intersection Improvements

SHEET NO. 3A-3

Horizontal Scale: 1"= 10' Vertical Scale: 1" = 1'



Contractor shall be responsible for meeting all Americans with Disabilities Act (ADA) requirements as defined by the Public Rights-of-Way Accessibility Guidelines (PROWAG).

LEGEND

TC = Top of Curb Elevation

FL = Flow Line Elevation

→ = Flow Direction

Street

Helens

L9.92'_ R28.00'

R5.00'

TC:53.02 BC:52.52 52.84

PT: 31+03.31

BC = Bottom of Curb Elevation

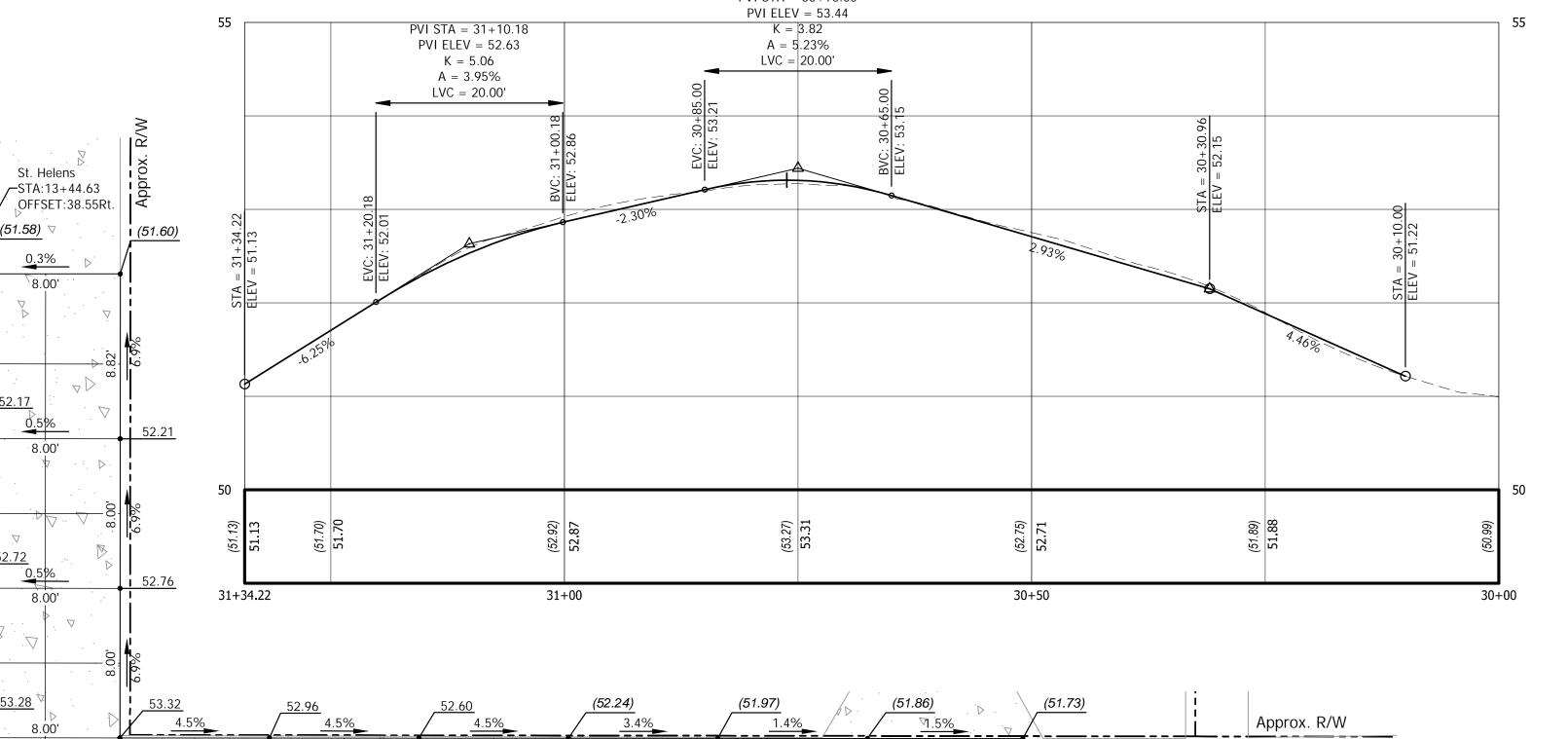
(XXX.XX) = Match Extg. Grade

- 2. Details and dimensions shown are approximate. Slopes hold over elevations. Contractor shall take all necessary field measurements to verify ADA compliance and notify the engineer if ramps cannot be constructed as shown.
- Refer to ODOT STD. DWG RD 755 for ADA requirements
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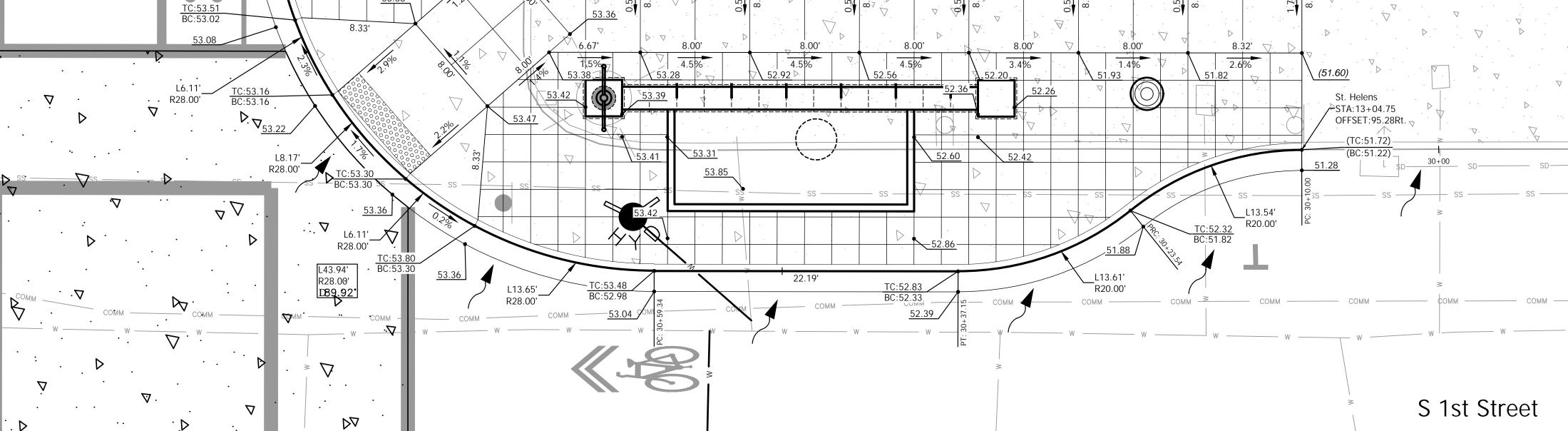
CURB RETURN PROFILE

Horizontal Scale: 1"= 10' Vertical Scale: 1" = 1'

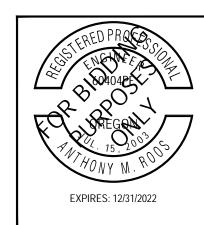
8.00'



PVI STA = 30 + 75.00









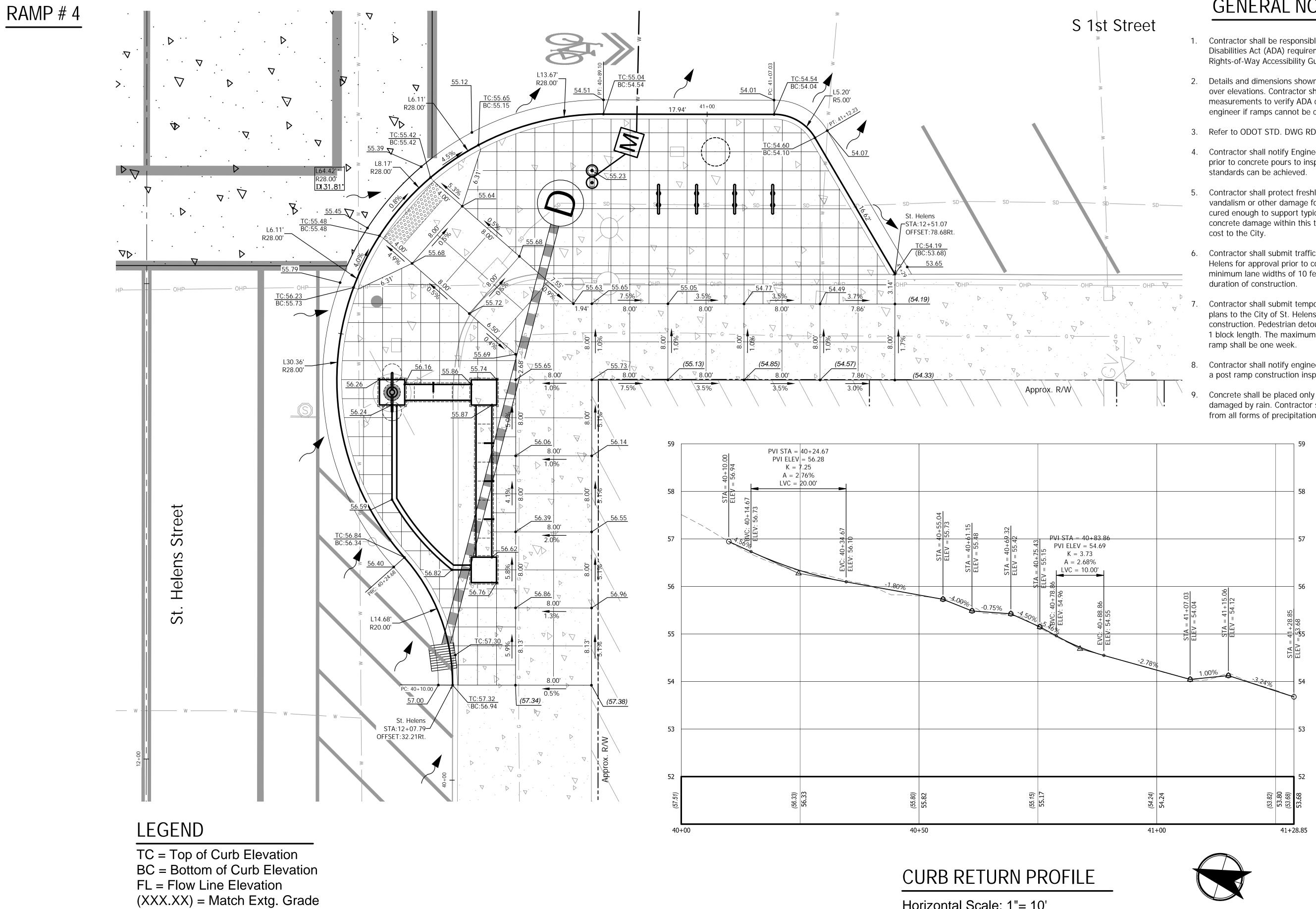
KITTELSON & ASSOCIATES

Submission Date: 04/22/2022 PROJECT NO.

23544

Street at St. Helens Street Intersection Improvements

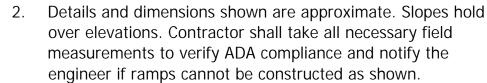
SHEET NO. 3A-4



→ = Flow Direction

GENERAL NOTES

Contractor shall be responsible for meeting all Americans with Disabilities Act (ADA) requirements as defined by the Public Rights-of-Way Accessibility Guidelines (PROWAG).





4. Contractor shall notify Engineer and City of St. Helens 24 hours prior to concrete pours to inspect forms and verify ADA

Contractor shall protect freshly poured concrete from vandalism or other damage for a minimum of 24 hours or until cured enough to support typical use, whichever is longer. Any concrete damage within this time period shall be repaired at no

6. Contractor shall submit traffic control plans to the City of St. Helens for approval prior to construction. Two way traffic with minimum lane widths of 10 feet must be maintained for the

Contractor shall submit temporary pedestrian access route plans to the City of St. Helens for approval prior to construction. Pedestrian detour routes must be no longer than 1 block length. The maximum closure time for any single curb

Contractor shall notify engineer once ramps are completed for a post ramp construction inspection.

Concrete shall be placed only during periods when it will not be damaged by rain. Contractor shall protect uncured concrete from all forms of precipitation and inclement weather.

Submission Date: 04/22/2022

ON VTES

KITTELS(

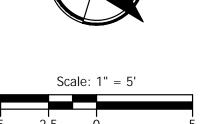
Designed: Checked: CEC AMR

PROJECT NO. 23544

S 1st Street at St. Helens Street Intersection Improvements

SHEET NO. 3A-5

Horizontal Scale: 1"= 10' Vertical Scale: 1" = 1'



ILLUMINATION

LIGHTING NOTES:

1. 14 ft decorative acorn style light pole shall be:

MANUFACTURER: CATALOG NUMBER V1-S13-F/14'

2. Acorn style luminaire shall be:

MANUFACTURER: CATALOG NUMBER

VISCO 1200M-98-40-T3-NL-PEC-9005

3. Junction boxes shall be PGE approved splice boxes. Approved junction boxes are:

MANUFACTURER:

NEW BASIS

QUAZITE (HUBBELL)

OLDCASTLE

ARMORCAST

HIGHLINE

CATALOG NUMBER: JB1

FCA173018T-90026

A42173018A017

17301620

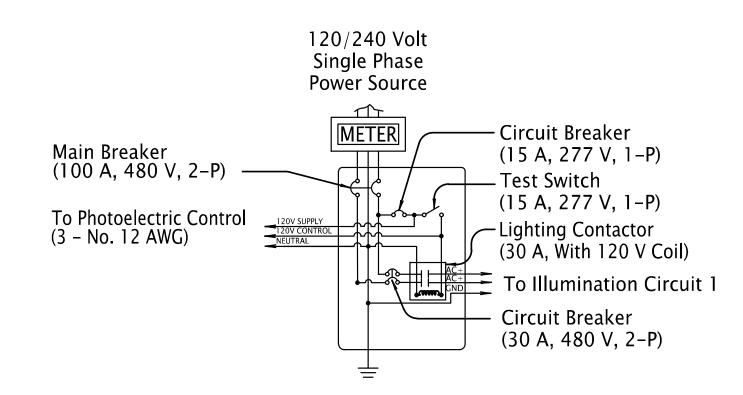
A6001640TAX18-PGE

CHA173018HE1

"LIGHTING" shall be in the lid marking area.

GENERAL NOTES

- 1. All electrical equipment shall conform to the current standards of the National Electrical Manufacturers Association (NEMA) and the Underwriters Laboratories, inc. (U.L.) wherever applicable. In addition to the requirements of the plans, standard specifications, and the special provisions, all materials and workmanship shall conform to the current requirements of the National Electrical Code (NEC) the National Electrical Safety Code, standards of the American National Standards Institute (ANSI), and any local ordinances which may apply.
- 2. Location of illumination conduits and junction boxes are approximate. Coordinate with other utilities to ensure proper installation.
- 3. Equipment submittals and pole drawings shall be provided to the City of St. Helens by the contractor after an initial review has been completed by the project engineer. City of St. Helens approval of these submittals must be obtained prior to construction.



SERVICE PANEL WIRING DIAGRAM

LEGEND

JUNCTION BOXES

INSTALL 17"X10" (MIN. DIMENSION) TYPE JB1
PRECAST CONCRETE JUNCTION BOX PER ODOT STD. DWG. TM472.

ILLUMINATION

INSTALL LUMINAIRE POLE. NO. (N) PER DETAIL ON SHEET IL-3

INSTALL BASE MOUNTED SERVICE CABINET, 120/240 VOLT METERED PER ODOT STD. DWG. NOS. TM482 & TM485. SEE WIRING DIAGRAM ON THIS SHEET FOR DETAILS.

CONDUIT

2.30'

S INSTALL (S=SIZE) INCH ELECTRICAL CONDUIT.

W INSTALL CONDUIT AND WIRE AS REQUIRED BY POWER COMPANY

(CS)—— 2" CONDUIT STUB (FOR FUTURE USE, CAP ENDS)

WIRES

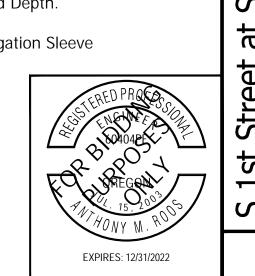
N G INSTALL (N=NUMBER) NO. (G=AWG WIRE SIZE) XHHW WIRES CONNECTED TO ILLUMINAITON CIRCUIT NO. (X)

G INSTALL ONE NO. (S) AWG WIRE SIZE COPPER GROUND WIRE

PL INSTALL POLYETHYLENE PULL LINE

POLE FOUNDATION NOTES

- Standard Foundation Design Is Based On The Following Soil Parameter, Which Are Characteristic Of The Predominantly Silty Soils Located Throughout The Greater Portland Area: Soil Internal Friction Angle: 26 Degrees Soil Effective Weight = 110 Pcf.
- Project Bids For Foundations Shall Be Based On Standard Design Depth As Shown On This Drawing. Additional Foundation Depth, If Required For Conditions As Outlined Below In Notes 3-6, Will Be Paid For By A Contract Change Order.
- 3. Shafts That Encounter Up To 3 Feet Of Fill Soil Require The Total Foundation Depth Be Increased By An Amount Equal To The Thickness Of The Fill.
- Shafts That Encounter More Than 3 Feet Of Fill Soil Require A Site Observation And Special Foundation Design Provided By The City. Contractor To Contact The City's Project Engineer To Coordinate.
- 5. Shafts That Encounter Groundwater Level In Lower Half Of Shaft Require A 2 Foot Increase In Total Foundation Depth.
- 6. Shafts That Encounter Groundwater Level In Upper Half Of Shaft Require A Total Foundation Depth Of 1.5 Times The Standard Depth.
- 7. See Irrigation Plan L3.02 For Irrigation Sleeve Through Foundation.





KITTELSON

& ASSOCIATES

SIO SW ALDER STREET, SUITE 700

PORTLAND, OR 97205

REVISION APP'D

Submission Date:

vn: Designed: Checked: AMR
PROJECT NO. 23544

at St. Helens Street
on Improvements

S 1st Street at St. H Intersection Impl

SHEET NO.

IL-1

POLE FOUNDATION DETAIL

FOR DETAILS

(3) #4 VERT BARS AND (7) #4 HORIZ BARS EA FACE, 3" CLR TYP

FOUNDATION SHALL CURE A MINIMUM OF

14 DAYS PRIOR TO POLE INSTALLATION.

SEE POLE DETAIL ON SHEET IL-3 FOR

- STONE VENEER, SEE LANDSCAPING

ADJACENT SIDEWALK

ANCHOR ROD AND BASE PLATE DIMENSIONS.

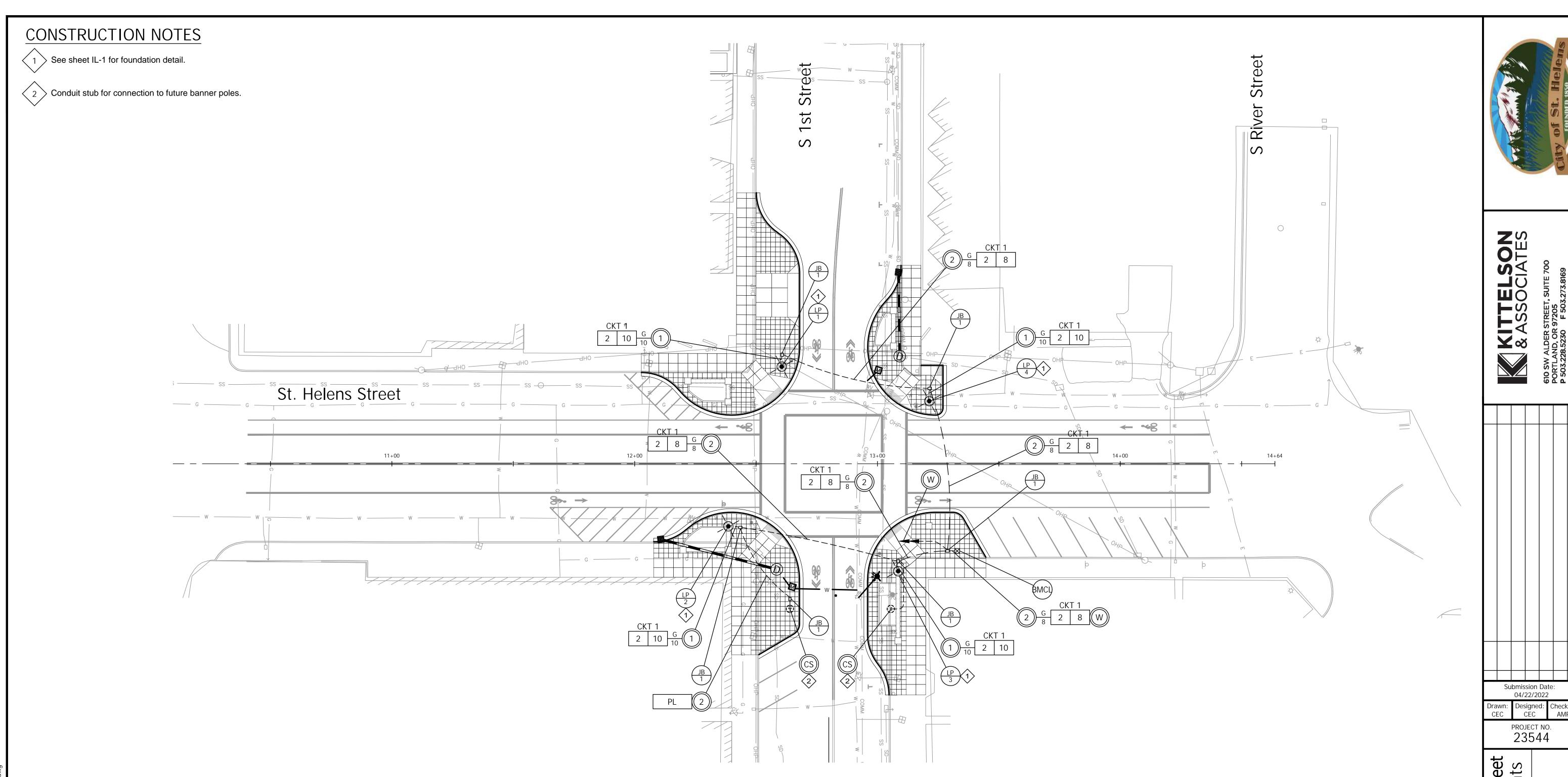
(2) 6" LONG #4 DOWELS EACH SIDE,

EXCEPT WHERE ABUTTING SEAT WALL

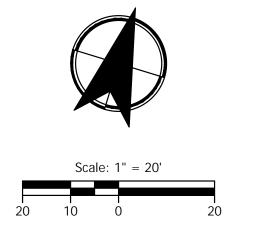
CONDUIT IN CONCRETE FOUNDATION

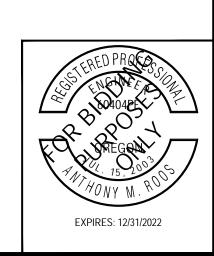
SHALL BE 2" RIGID GALVANIZED STEEL.

IRRIGATE TUBE. SEE LANDSCAPE PLANS

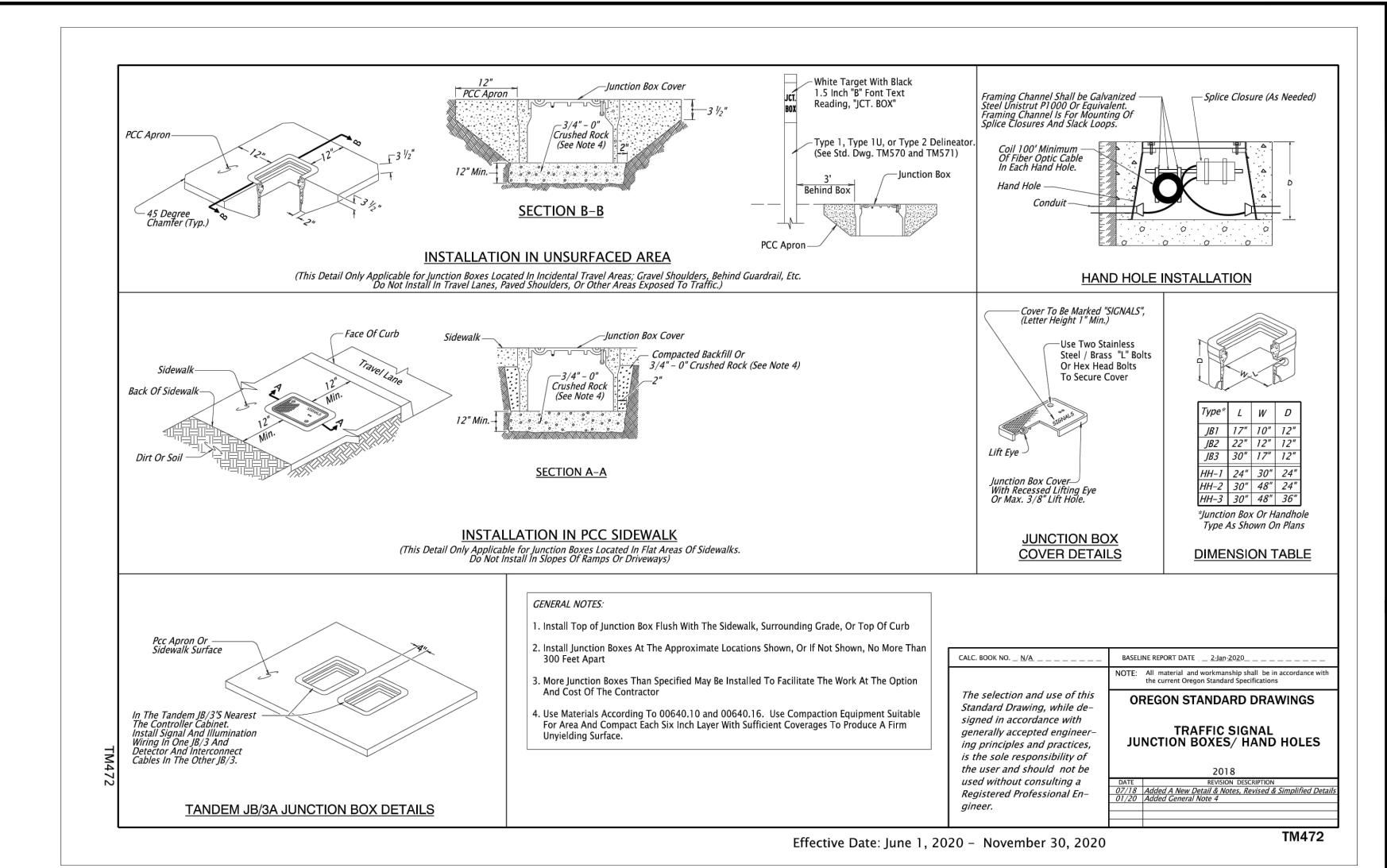


STREET LIGHT POLE SCHEDULE											
POLE NO.	LUMINAIRE	STREET	STATION	OFFSET (FT.)	MOUNTING HEIGHT (FT.)						
1	1200M-98-40-T3-NL-PEC-9005	ST. HELENS ST	STA 12+60.55	40.00 LT	14						
2	1200M-98-40-T3-NL-PEC-9005	ST. HELENS ST	STA 12+38.52	25.81 RT	14						
3	1200M-98-40-T3-NL-PEC-9005	ST. HELENS ST	STA 13+08.48	44.29 RT	14						
4	1200M-98-40-T3-NL-PEC-9005	ST. HELENS ST	STA 13+21.29	25.83 LT	14						









KITTELSON & ASSOCIATES

Submission Date: 04/22/2022

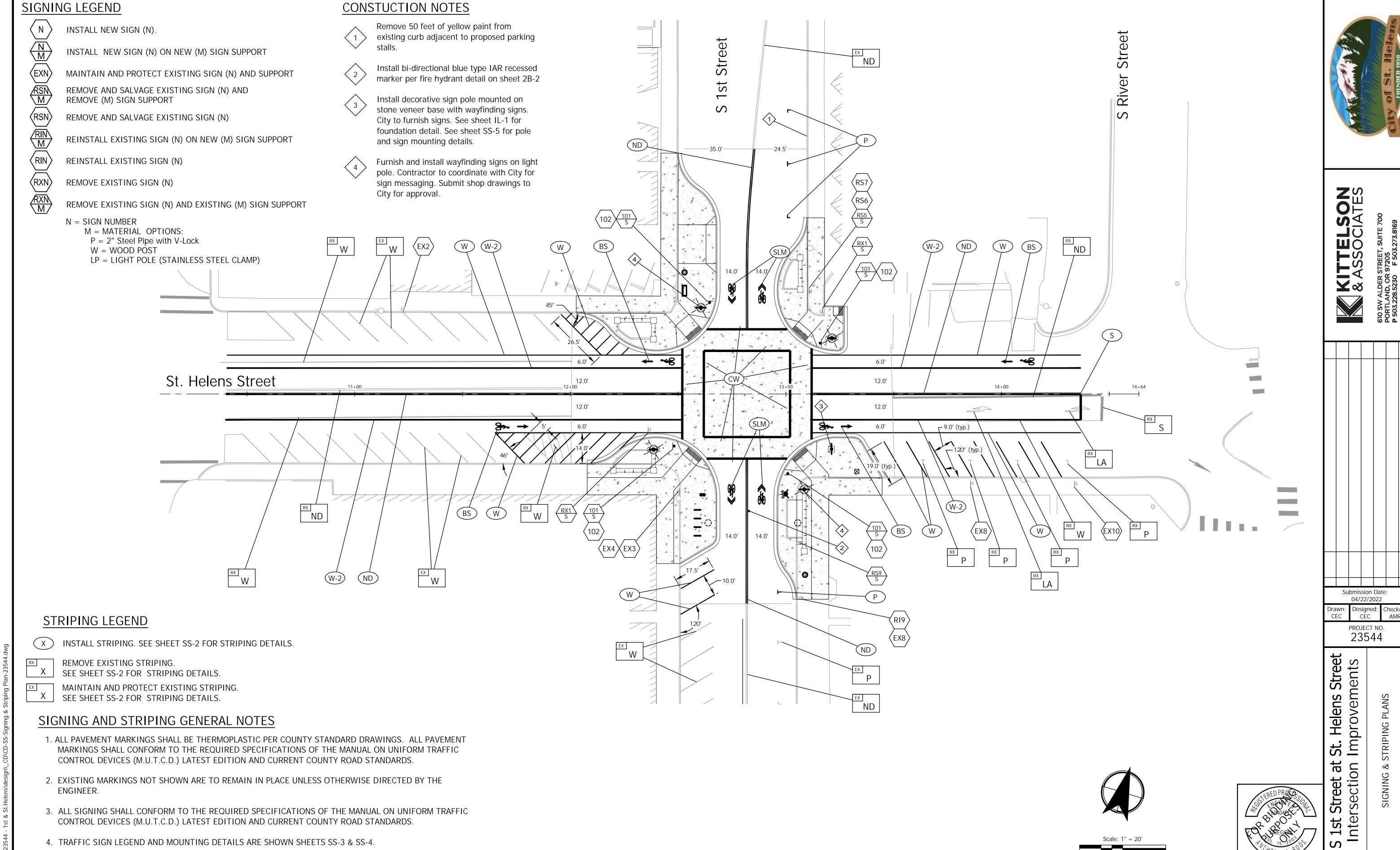
Designed: Checked: CEC AMR PROJECT NO.

23544

S 1st Street at St. Helens Street Intersection Improvements

ILLUMINATION DETAILS

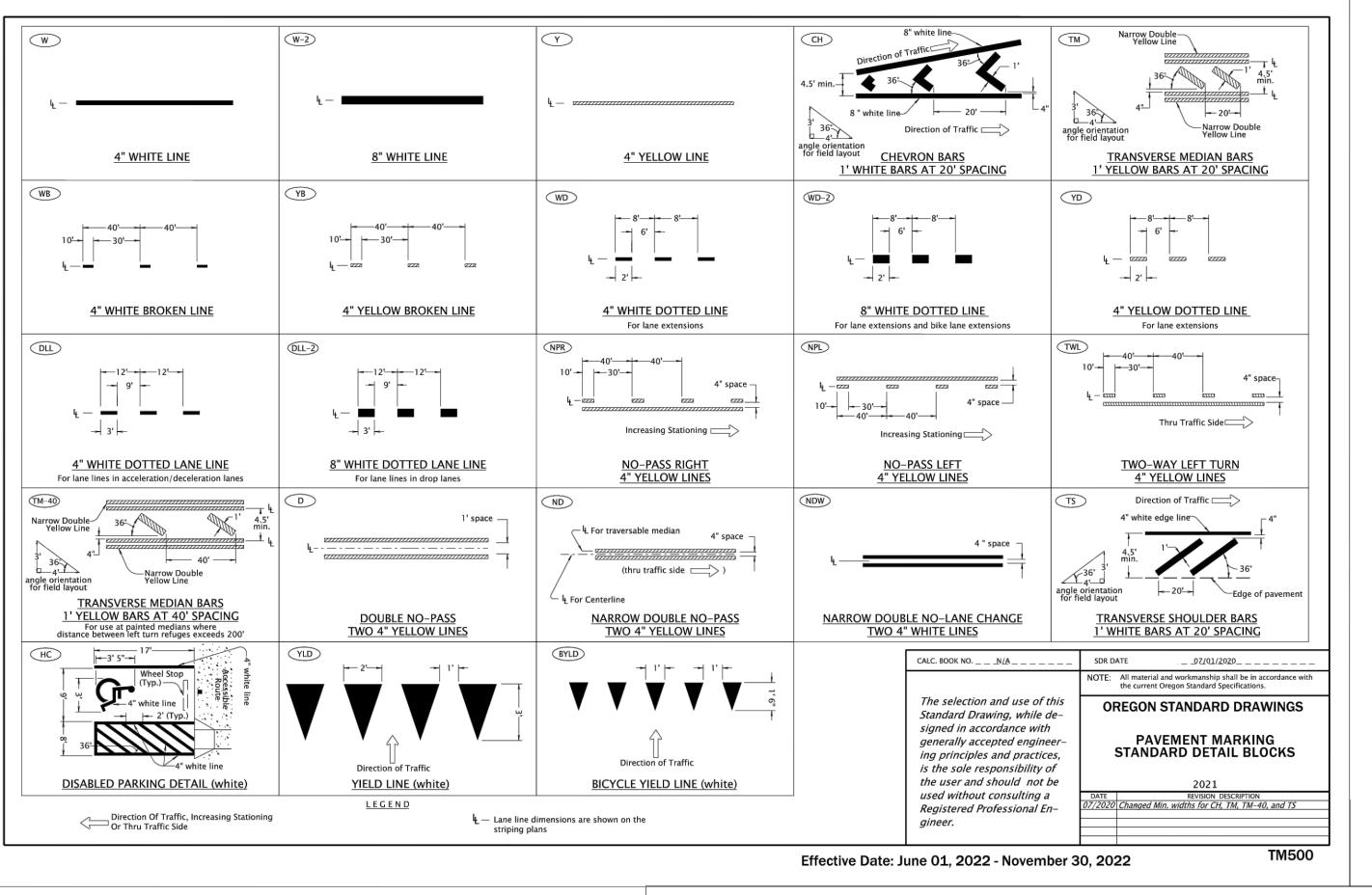
SHEET NO.

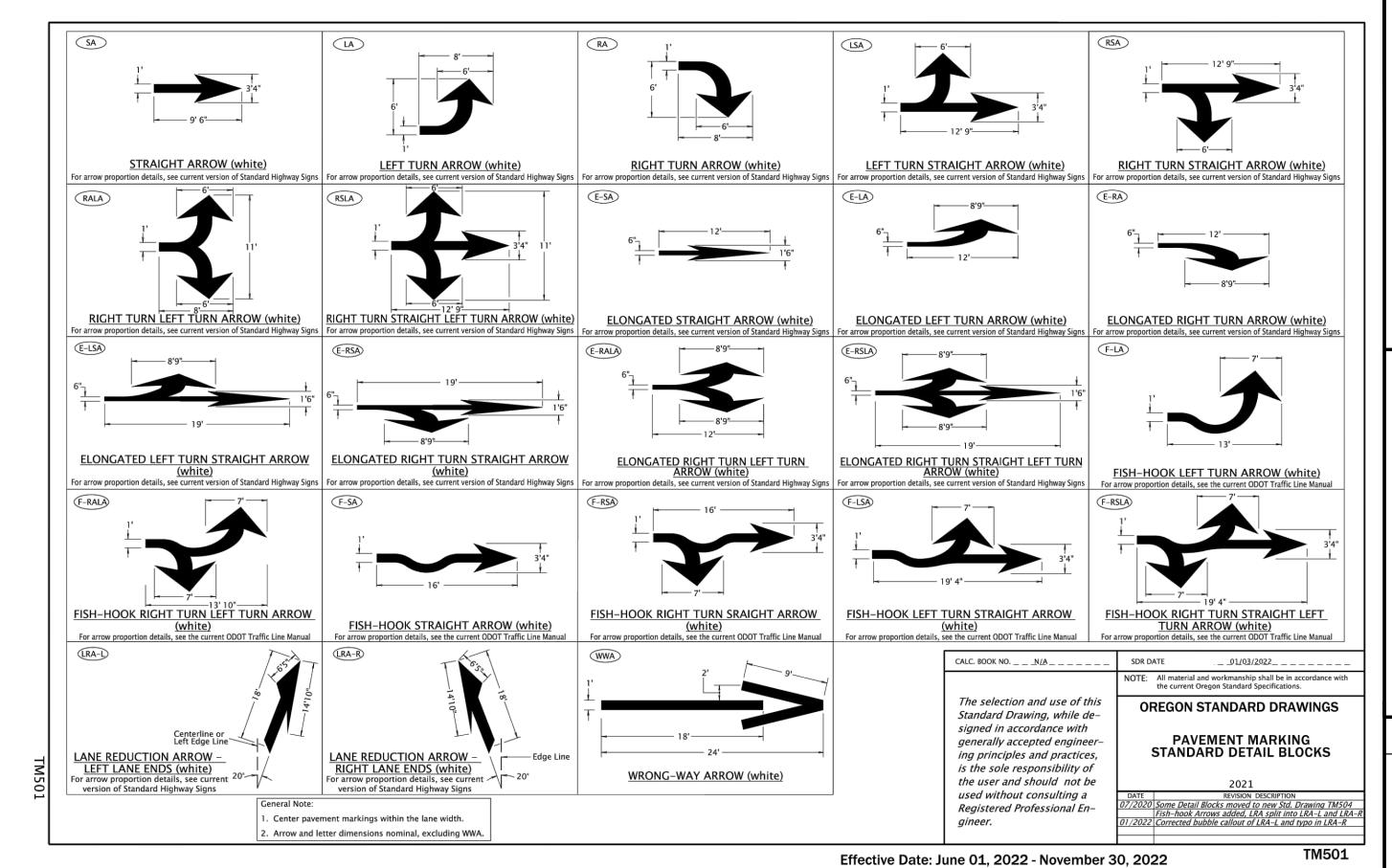


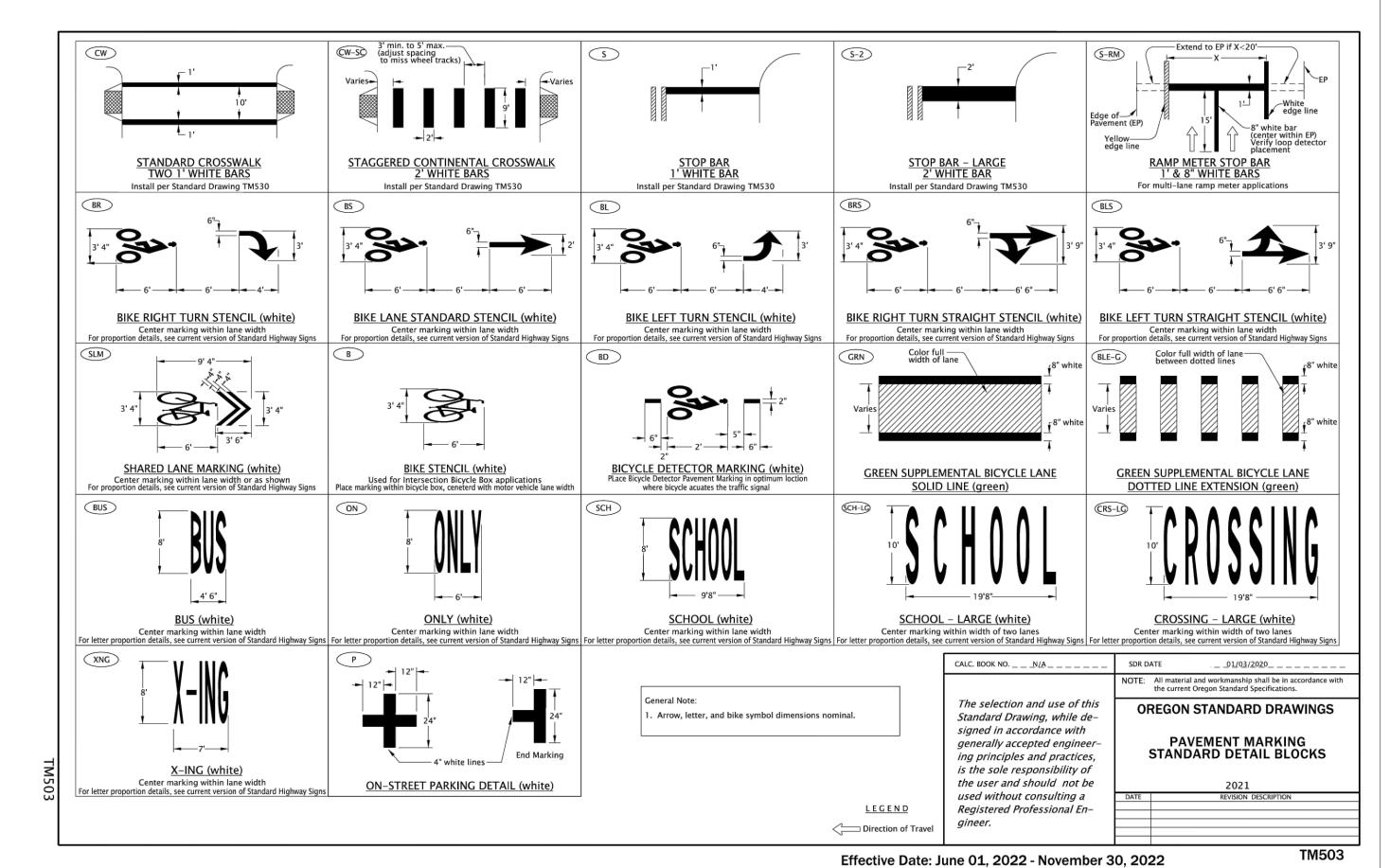
SHEET NO.

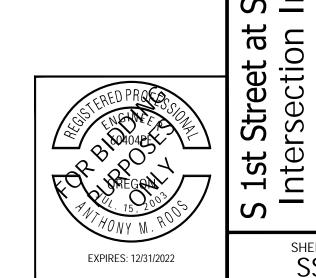
Plot Stamp: 6/27/2022 12:22:03 PM - Caleb Cox

5. EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.









PROJECT NO. 23544

STRIPLING DETAILS

O4/22/2022

Drawn: CEC Designed: Checked AMR

PROJECT NO. 23544

SHEET NO. SSS-2

Submission Date:

EXISTING SIGNS









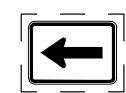




























9

TRUCK Traffic

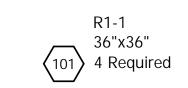


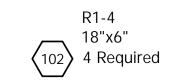


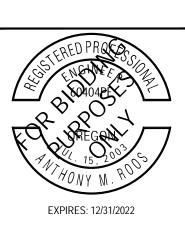
PROPOSED SIGNS











S 1st Street at St. Helens Street Intersection Improvements

KITTELSON & ASSOCIATES

SHEET NO.

SIGNING DETAILS

Submission Date: 04/22/2022

PROJECT NO. **23544**

	SIGN							c	OLOR 1/													TYPE OF	SUPPOR	T							PC	DST	FOO	TING		REM	ARKS	
SIGN NO.	LOCATION 4/		IGN NSIONS		UB-STRA	TE	BACK	GROUND	1	LEGEND		LEG	END	SIGN NO. <u>2</u> /								ш						SECON	NDARY SIG	SN MOUNT	SIZE	LENGTH	LOCATION	MIN. DEPTH	ı .			
		WIDTH	HEIGHT	PLYWOOD	SHEET ALUM.	EXTRUDED ALUM. (TM675)	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE VII OR TYPE IV	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE		WOOD POST (TM670-TM671, TM676)	SINGLE PIPE POST (SCH 40)	PERF STEEL SQUARE TUBE (ODOT TM671, TM676, TM687-689)	TRIANGULAR BASE BREAKAWAY (ODOT TM602)	MULTI-POST BREAKAWAY (ODOT TM220, TM600-601)	ESS STEE	SIGNAL POLE MOUNT (TM680)	CROSSWALK CLOSURE BARRICADE (TM490)	VERTICAL SIGN MOUNT ON EXISTING STRUCTURE	EXISTING PIPE POST	MILEPOST MARKER POST (TM221-TM222)	ADJUSTABLE SIGN MOUNT	MAST ARM SNS MOUNT	C 4 X 5.4	C 4 X 7.25	LENGTH	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)		<u>5</u> 1				
101	"St. Helens Street" 12+48 RT	36"	36"		X		R		SW			X		101		X															2-3/8"	12'	3'				OVE SIGN 102	
101	"St. Helens Street" 12+65 LT	36"	36"		X		R		SW			X		101		X															2-3/8"	12'	3'				OVE SIGN 102	╛┝
101	"St. Helens Street" 13+01 RT	36"	36"		X		R		SW			X		101		X															2-3/8"	12'	3'				OVE SIGN 102	\Box
101	"St. Helens Street" 13+16 LT	36"	36"		X		R		SW			X		101		X															2-3/8"	12'	3'			MOUNT ABO	OVE SIGN 102	$\perp \mid \mid$
102	"St. Helens Street" 12+48 RT	18"	6"		X		R		SW			X		102					-		()						4)			7					7	MOUNT BEL	OW SIGN 101	$-\parallel$
	"St. Helens Street" 12+48 KT	18"	6"		X	1	R		SW	+		#SEE		102					+					- 1		<u> </u>			-								OW SIGN 101	
	"St. Helens Street" 13+01 RT		O		X	123	R		SW			X		102				:																			OW SIGN 101	-
	"St. Helens Street" 13+16 LT	18"	6"		X		R		SW			X		102					+					36													OW SIGN 101	-
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BL= BLUE BR= BROWN FY= FLUORESCENT YELLOW G= GREEN O= ORANGE R= RED

RB= RED-BLUE SW= SILVER-WHITE W= WHITE Y= YELLOW YG= YELLOW-GREEN

NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN.

L = LEFT POST C = CENTER POST R = RIGHT POST

DISTANCE FROM EDGE OF PAVEMENT, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM600, TM602, AND TM635.

NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, OBJECT MARKERS AND MILEPOST MARKERS, **EXACT LOCATIONS ARE TO BE DETERMINED BY** THE ENGINEER.

MINIMUM DEPTH OF FOOTING FOR TRIANGULAR BASE BREAKAWAY AND MULTI-POST BREAKAWAY INSTALLATIONS IS FOR A 2' DIAMETER FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS -----

S 1st Street at St. Helens Street Intersection Improvements

EXPIRES: 12/31/2022

SHEET NO.

Submission Date:

04/22/2022

PROJECT NO.

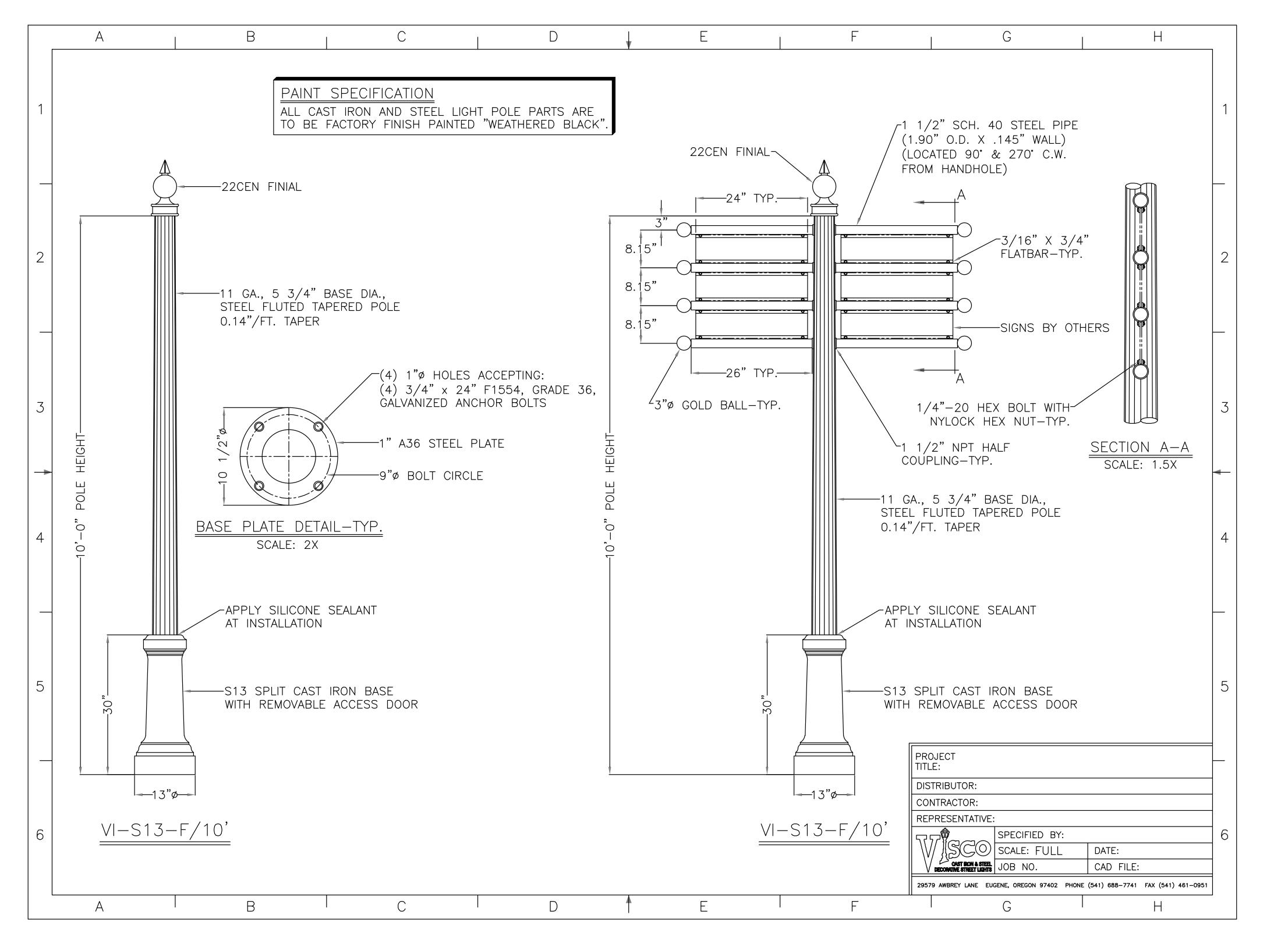
23544

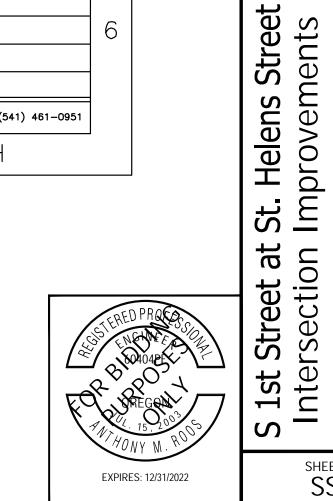
Drawn: CEC

Designed: Checked: CEC AMR

SIGNING DETAILS

KITTELSON & ASSOCIATES





KITTELSON & ASSOCIATES

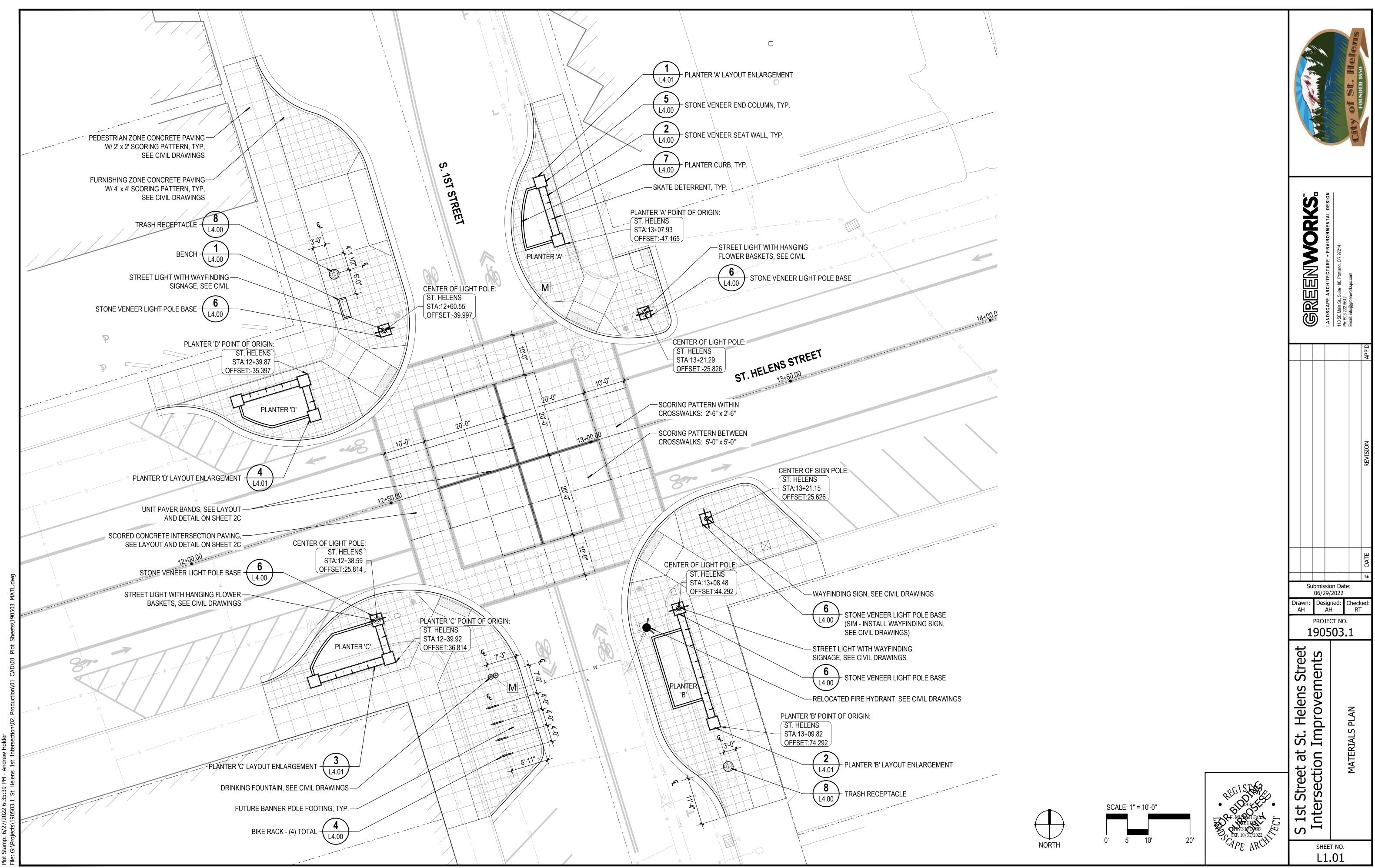
SHEET NO. SS-5

Submission Date: 04/22/2022

PROJECT NO.

23544

Designed: Checked: CEC AMR



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	<u>PSI</u>	<u>GPM</u>	RADIUS	DETAIL
⑤	RAIN BIRD 1812-PRS 5 SERIES MPR	180	30	0.20	5'	8/L2.02
8	RAIN BIRD 1812-PRS 8 SERIES MPR	180	30	0.52	8'	8/L2.02
(8)	RAIN BIRD 1812-PRS 8 SERIES MPR	90	30	0.26	8'	8/L2.02
4	RAIN BIRD 1812-PRS VAN SERIES	ADJ	30		4'	8/L2.02
6	RAIN BIRD 1812-PRS VAN SERIES	ADJ	30		6'	8/L2.02
8	RAIN BIRD 1812-PRS VAN SERIES	ADJ	30	0.01	8'	8/L2.02
SYMBOL	MANUFACTURER/MODEL		<u>PSI</u>			DETAIL
	DRIP CONTROL ZONE KIT - RAIN BIRD XCZ-100-PRB-COM W/TBOSPSOL - POTTED LATCHING SOLENOID					3/L2.03
❖	XERI-BUBBLE - RAIN BIRD SXB-025 SXB-360-025		15			1/L2.03
SYMBOL	MANUFACTURER/MODEL					<u>DETAIL</u>
•	RAIN BIRD PEB W/TBOSPSOL - POTTED LATCHING SOLENOID					2/L2.03
•	QUICK COUPOLER - RAIN BIRD 44-LRC					7/L2.02
×	GATE VALVE - LINE SIZE					5/L2.02
\triangle	PRESSURE REGULATING DEVICE - LINE SIZE					1/L2.02
	1" BACKFLOW PREVENTION DEVICE - WATTS LF007					2/L2.02
C	BATTERY OPERATED CONTROLLER - RAIN BIRD TBOS-BT2					2/L2.03
0	10" ROUND VALVE BOX					
\	MANUAL DRAIN VALVE - CHAMPION BRASS ANGLE - 200RS - LINE SIZE					
X"	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21					
_	IRRIGATION MAINLINE: PVC SCHEDULE 40					
	PIPE SLEEVE: PVC SCHEDULE 40					
	2" PIPE SLEEVE: PVC SCHEDULE 40 W/PULL WIRE					
CONTROL VALVE TARGE	<u>T</u>					
	– TYPE: L - LAWN S - SHRUB D - DRIP – VALVE SIZE					
$\times \left\langle \begin{array}{c} x \\ x \\ \end{array} \right\rangle -$	- STATION NUMBER					
	- FLOW IN GPM					

IRRIGATION NOTES

- 1. CALL DIG SAFELY 811 TO LOCATE EXISTING SERVICES PRIOR TO EXCAVATION.
- 2. SYSTEM OPERATION AND DESIGN IS BASED ON 70 POUNDS OF PRESSURE AND 20 GALLONS PER MINUTE AT THE SHUTOFF VALVE. THE CONTRACTOR SHALL VERIFY THE DESIGN PRESSURE AND VOLUME BEFORE INSTALLATION AND NOTIFY OWNER IF THERE IS A DISCREPANCY.
- 3. EQUIPMENT AND VALVE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW IRRIGATION SYSTEM.
- 4. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LAYOUT OF ALL NEW PLANTING AREAS ON SITE BEFORE STARTING WORK AND IMMEDIATELY NOTIFY OWNER OF ANY DEVIATIONS FROM PLAN.
- 5. LOCATE EQUIPMENT AND VALVE BOXES WITHIN FURNISHING ZONE PAVING AREA, AND ALIGN TO PAVING PATTERN.
- 6. MAIN AND LATERAL LINES MAY BE SHOWN DIAGRAMMATICALLY FOR CLARITY. MAIN AND LATERAL LINES SHOWN IN PAVED AREAS SHALL BE PLACED IN ADJACENT PLANTING BEDS UNLESS SPECIFICALLY SHOWN AS PASSING UNDER PAVING IN SLEEVING (SEE LEGEND FOR SLEEVE SYMBOL). THE CONTRACTOR MUST OBTAIN THE APPROVAL OF OWNER'S REPRESENTATIVE BEFORE MAKING CHANGES IN ROUTING OF PIPE OR LOCATION OF VALVES.



REEDIN WORKS

APE ARCHITECTURE - ENVIRONMENTAL DESIGNATION, Portland, OR 97214

2 5612

Submission Date:
06/29/2022

Drawn: RT Designed: RT

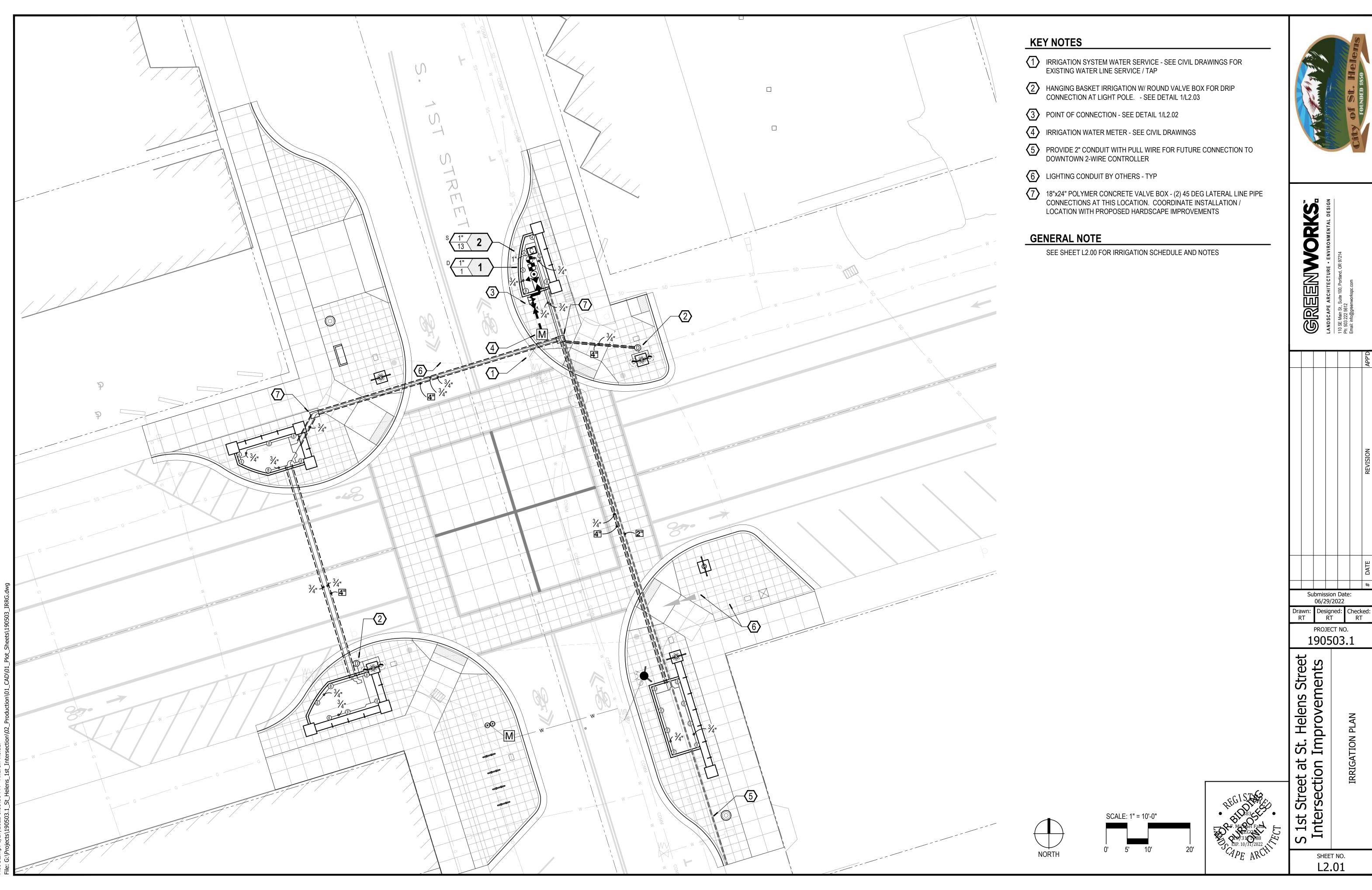
PROJECT NO.

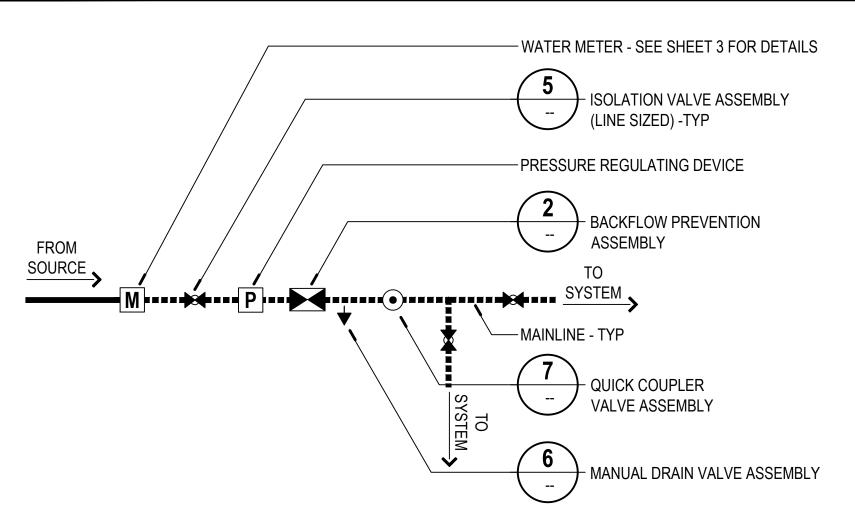
190503.1

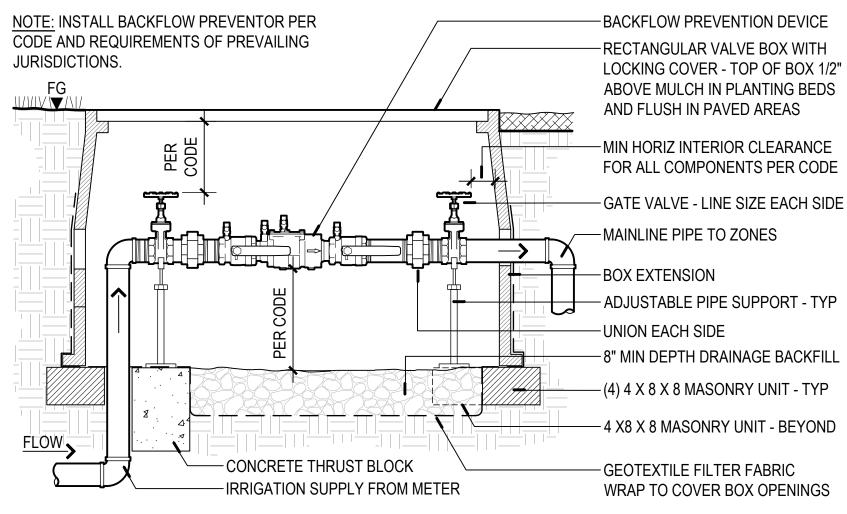
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S 1st Street at St. Helens Street Intersection Improvements

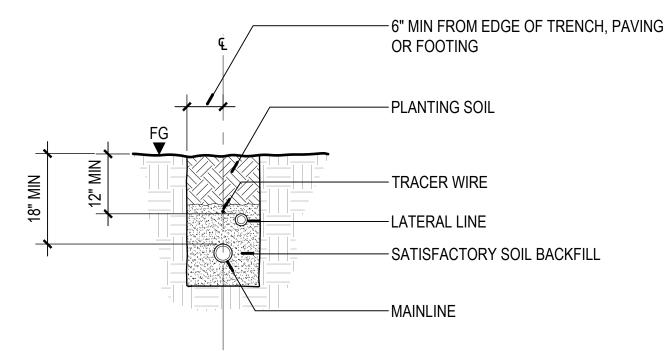
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NOTE:
REPAIR TRENCH SETTLEMENT AND RESTORE FINISH GRADES PRIOR TO SEEDING, PLANTING AND MULCHING.





TRENCHING IN PLANTING AREAS

NOT TO SCALE

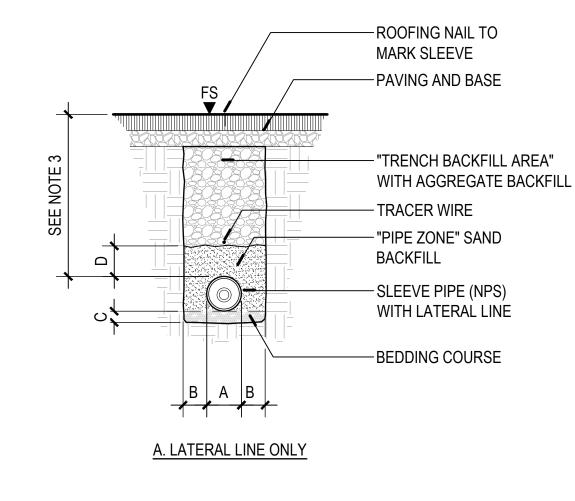
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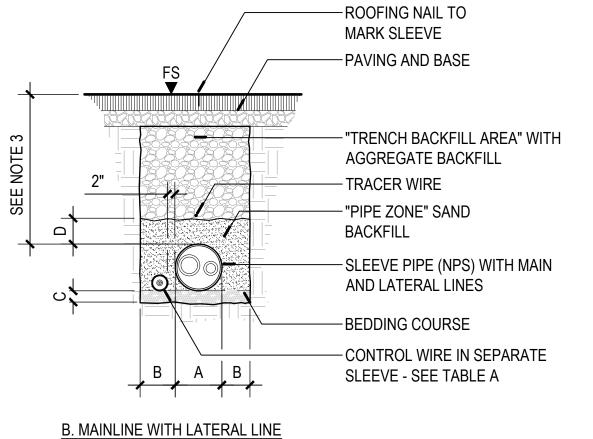
EXTEND IRRIGATION SLEEVES 24" BEYOND EACH SIDE OF PAVING, EXCEPT AT HANGING BASKETS.

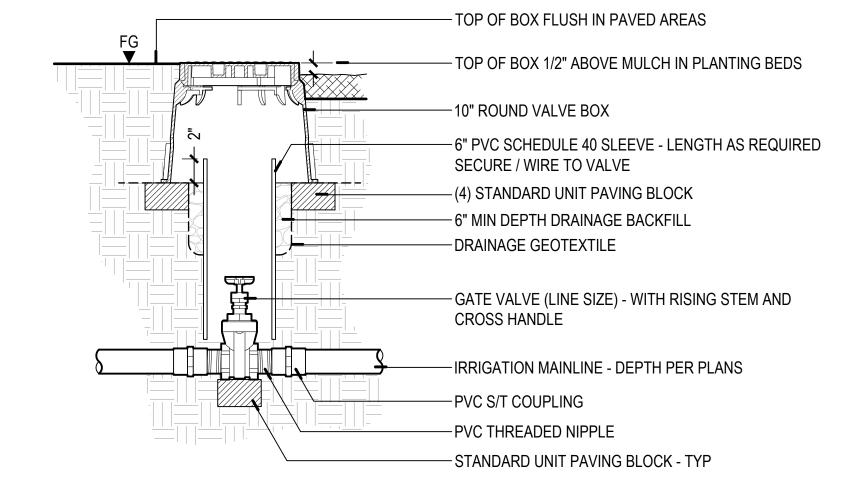
POINT OF CONNECTION DIAGRAM

- 2. SLEEVE PIPE DIAMETER TO BE A MINIMUM OF TWO TIMES PIPE DIAMETER(S) IT CONTAINS.
- 24" MINIMUM DEPTH UNDER PEDESTRIAN WALKS; 30" MINIMUM DEPTH UNDER VEHICULAR PAVING.

TABLE A									
A (NPS)	В	С	D						
<4"	6"	4"	8"						
4"	10"	4"	8"						
6"	10"	4"	8"						
8"	10"	6"	10"						

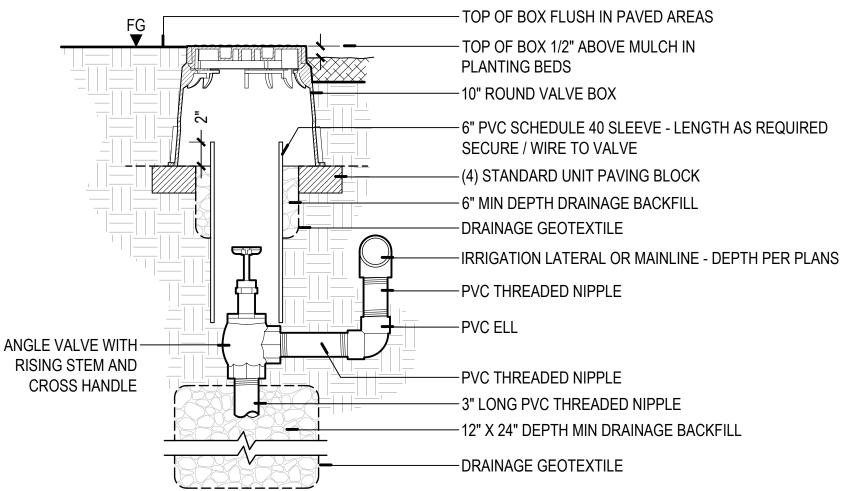


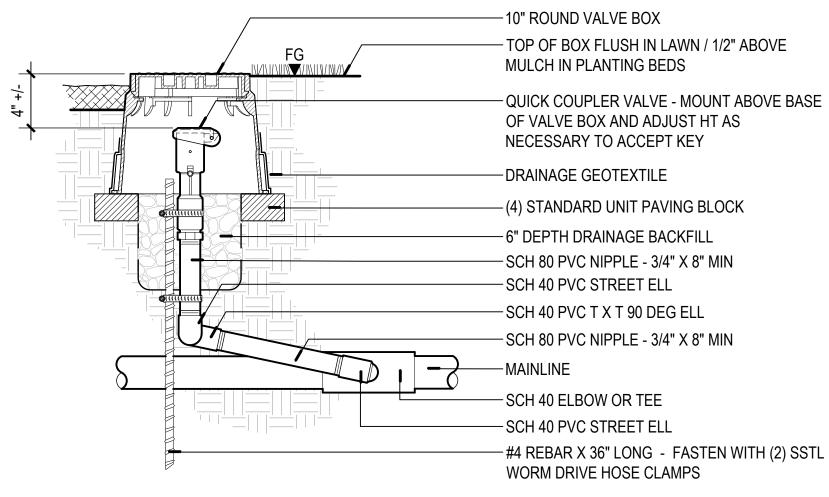


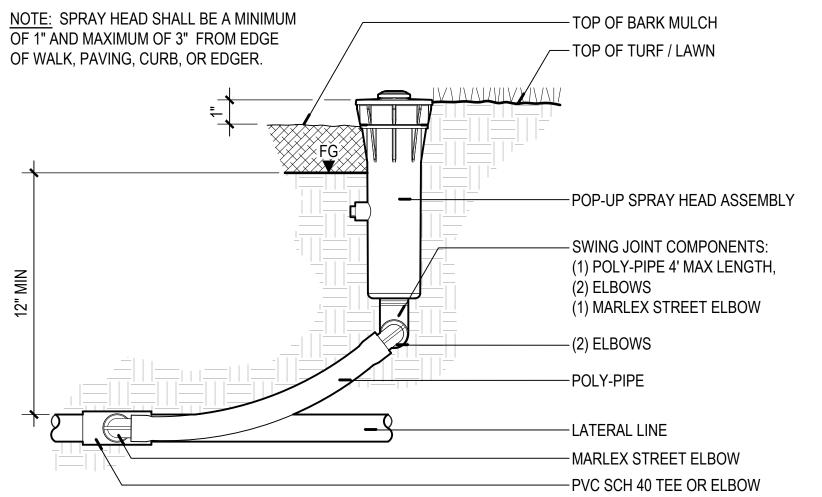




\ ISOLATION VALVE ASSEMBLY

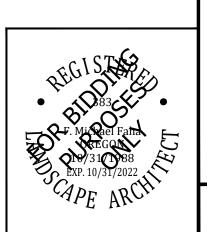














MANUAL DRAIN VALVE ASSEMBLY

NOT TO SCALE

S 1st Street at S Intersection I

GREEN WORKS,

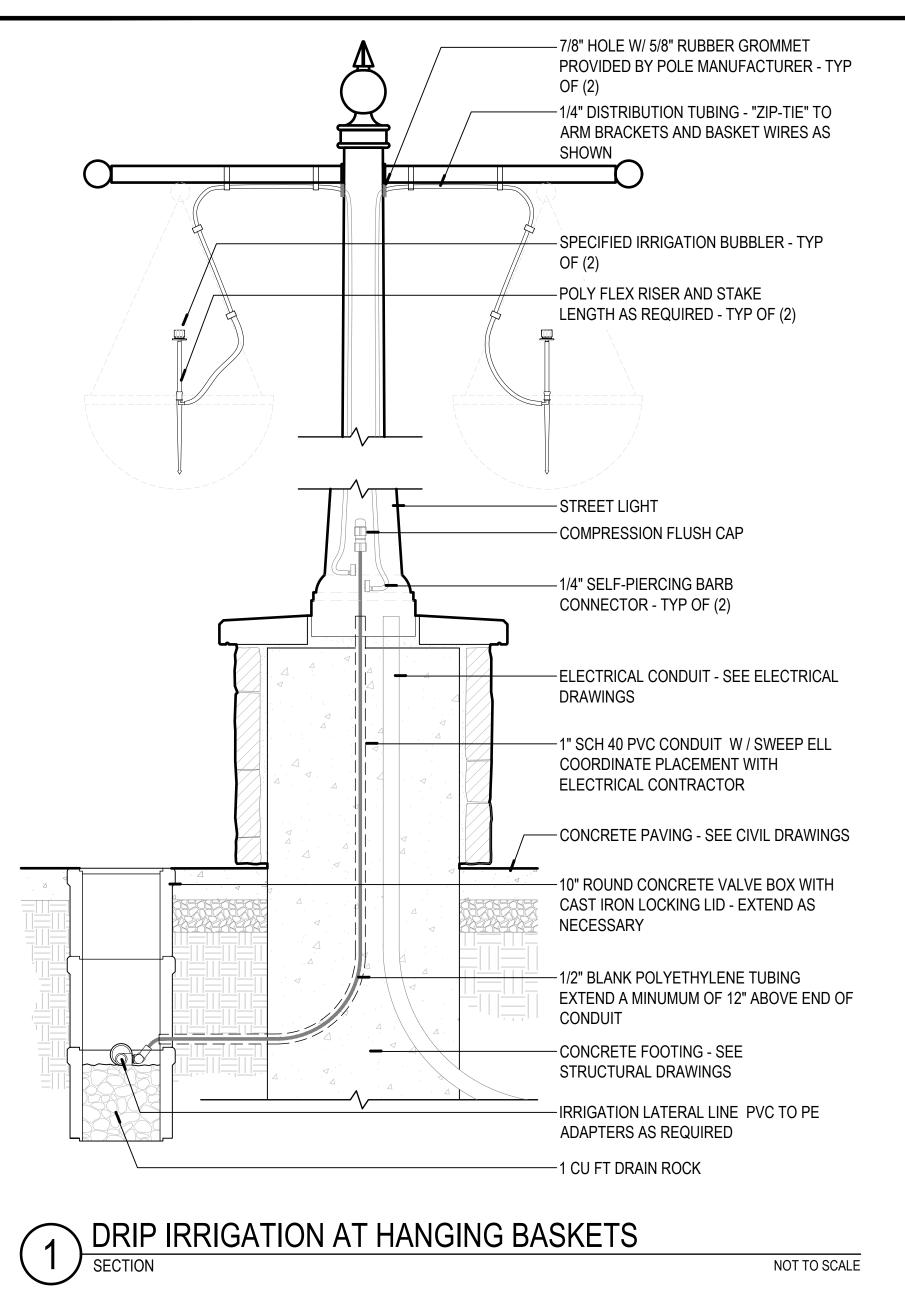
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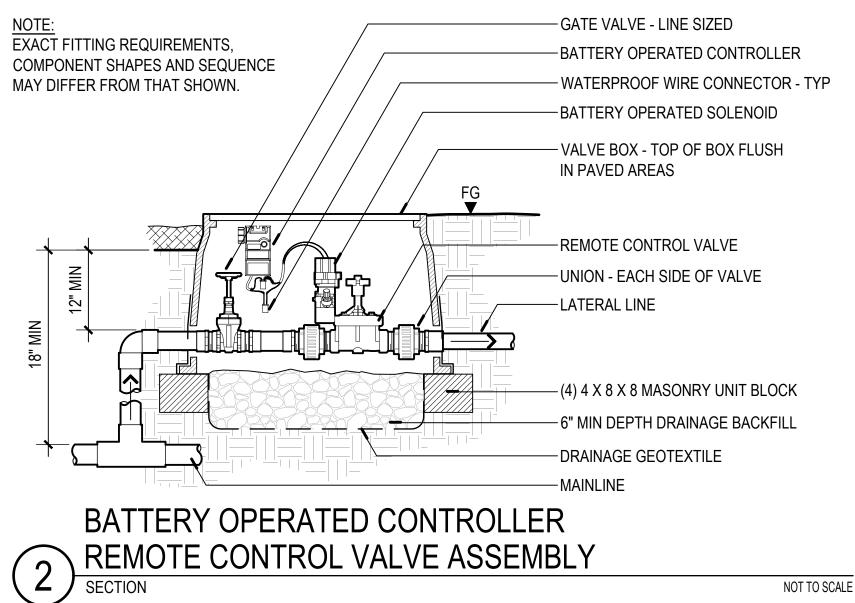
06/29/2022 Designed: Checked: RT RT RT

PROJECT NO. 190503.1

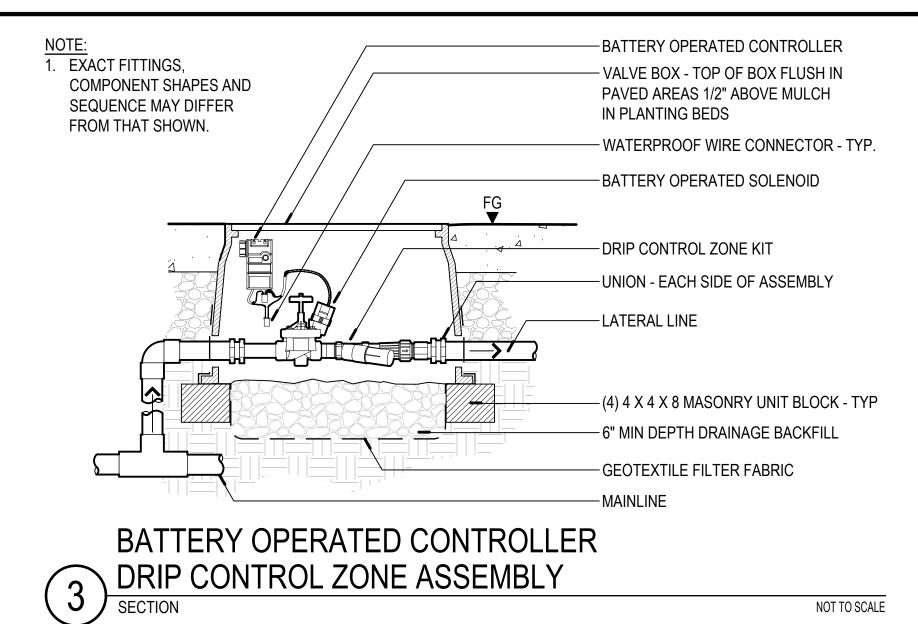
St. Helens Street Improvements

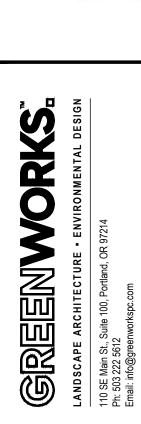
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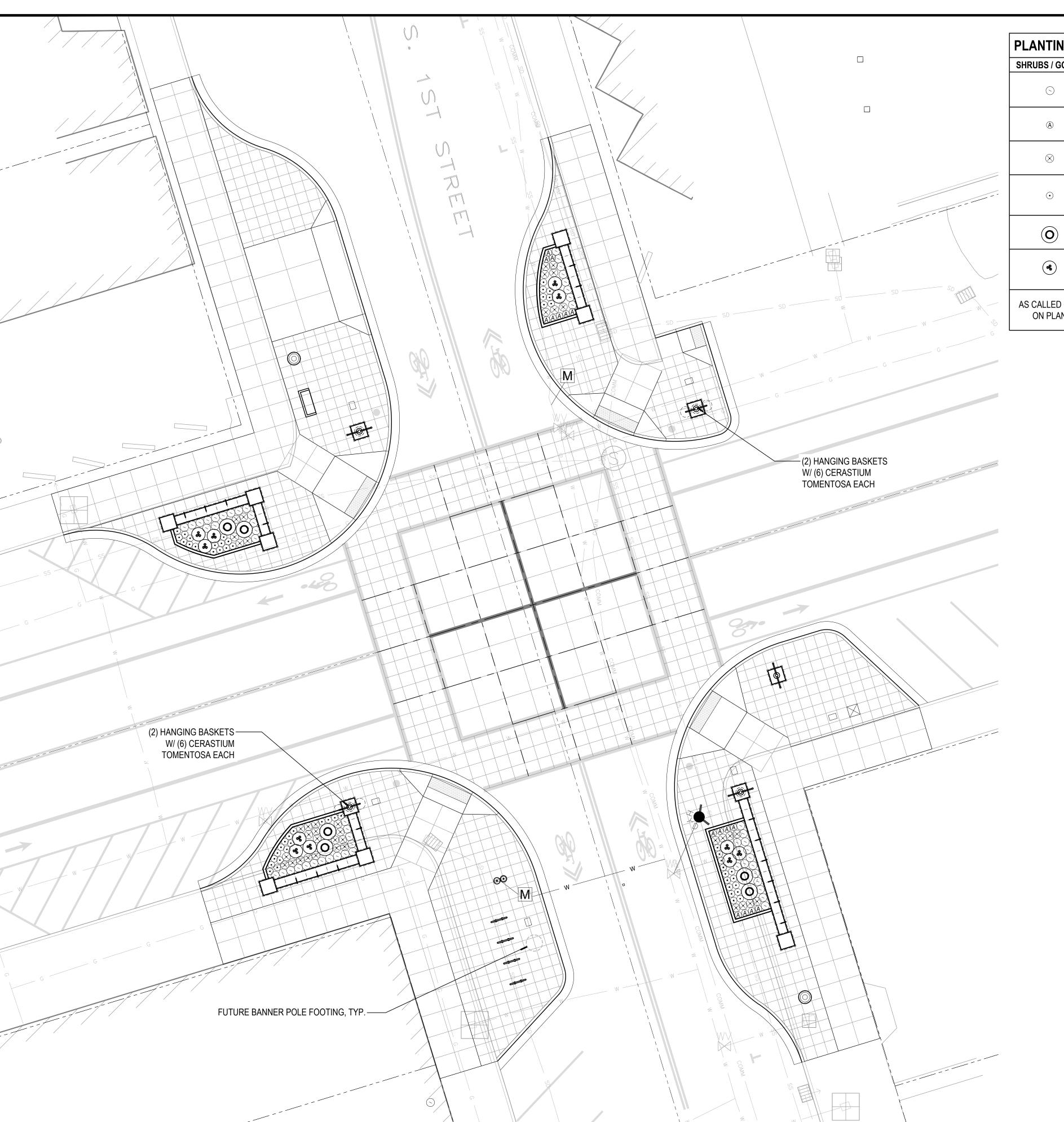


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Submission Date: 06/29/2022 Designed: Checked: RT RT Drawn: CW PROJECT NO. 190503.1

S 1st Street at St. Helens Street Intersection Improvements

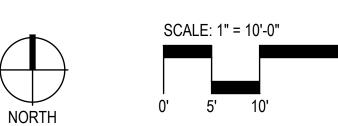
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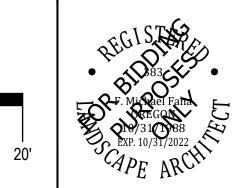


PLANTING SC	CHEDI	JLE					
SHRUBS / GCVRS	QTY	BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	REMARKS	DETAILS
\odot	53	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE KINNIKINNIK	1 GAL CONT	18" O.C.		
A	16	HYLOTELEPHIUM 'HERBSTSFREUDE'	AUTUMN JOY SEDUM	1 GAL CONT	15" O.C.		
\otimes	38	MAHONIA REPENS	CREEPING OREGON GRAPE	1 GAL CONT	18" O.C.		
\odot	52	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY DWARF FOUNTAIN GRASS	1 GAL CONT	15" O.C.		L3.02
0	6	PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRE'	BLUE SPIRE RUSSIAN SAGE	2 GAL CONT	36" O.C.		
OB)	11	PHILADELPHUS 'MINIATURE SNOWFLAKE'	MINIATURE SNOWFLAKE MOCK ORANGE	2 GAL CONT	30" O.C.		
AS CALLED OUT ON PLAN	28	CERASTIUM TOMENTOSA	SNOW-IN-SUMMER	4 IN POT	12" O.C.	7 PER HANGING BASKET, EVENLY SPACED.	3 L3.02

PLANTING NOTES

- 1. PROVIDE PLANTING SOIL AND BARK MULCH TO THE COMPOSITION AND DEPTHS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
- 2. INSTALL PLANTS IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
- 3. PLANT QUANTITIES ARE LISTED FOR CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED PRIOR TO INSTALLATION. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND.
- 4. UTILITY LOCATIONS SHOWN ON PLANS MAY DIFFER FROM FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY ALL UTILITIES BEFORE INSTALLATION. CONFLICTS BETWEEN ANY EXISTING AND PROPOSED UTILITIES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- 5. HANGING BASKETS SHALL BE BY PLANTERS UNLIMITED, (888) 320-0626, OR APPROVED EQUAL.
 - 36" DIAMETER POWDER COATED IRON BASKET, PART # B-HB-XL-36
 - COIR LINER, PART # B-HBL-XL-36







GREENSTORM CRANTECTURE - ENVIRONMENTAL DESIGN
110 SE Main St., Suite 100, Portland, OR 97214
Ph. 503 222 5612
Email: info@greenworkspc.com

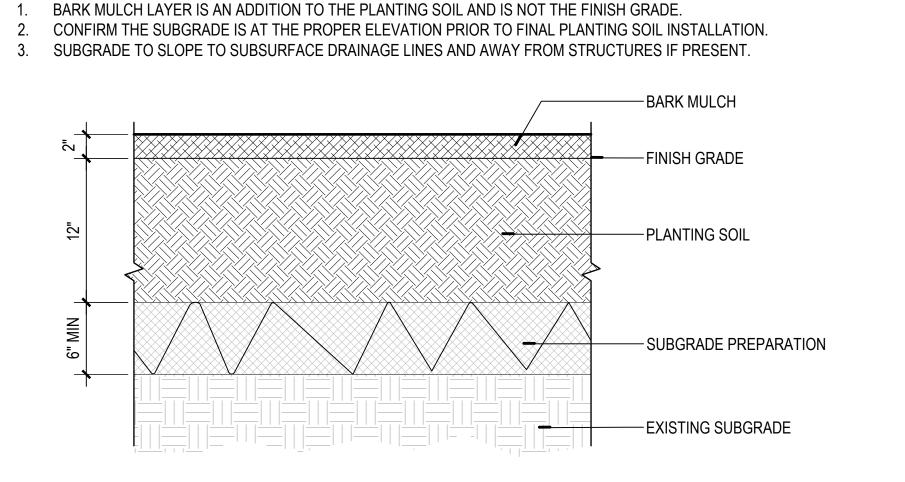
Submission Date: 06/29/2022

Designed: Checked: AH RT PROJECT NO.

190503.1

S 1st Street at St. Helens Street Intersection Improvements

SHEET NO. L3.01



-EDGE OF PLANT BED OR ADJACENT PLANT MASSING - CONTINUOUS EQUALLY SPACED OUTER ON CENTER DISTANCE FROM EDGE OF UNLESS INDICATED OTHERWISE ON PLANTING PLAN - TYP SIDEWALK, OR OTHER HARD SURFACE UNLESS INDICATED OTHERWISE -EDGE OF PAVEMENT, CURB OR OTHER HARD SURFACE

NOTE: PRIOR TO PLANTING, REMOVE PLANT FROM OC SPACING TYP -GROUNDCOVER - TYP -SET ROOT CROWN 1/2" ABOVE FINISH GRADE - TYP -BARK MULCH - KEEP 1" AWAY FROM CROWN - PLANTING SOIL

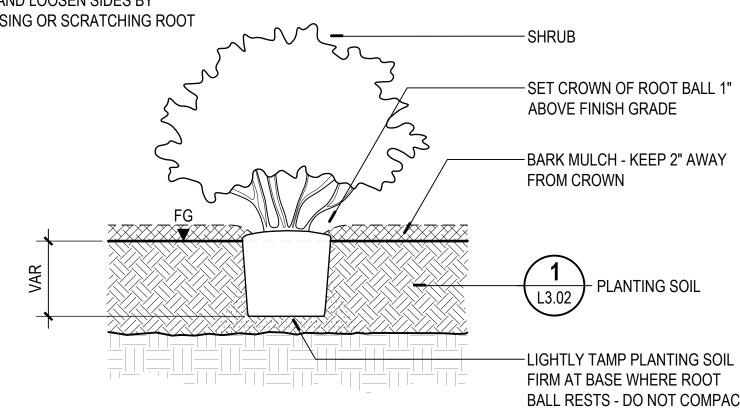
GROUNDCOVER PLANTING

PLANTING SOIL

PLANT SPACING DIAGRAM

NOTE:
PRIOR TO PLANTING, REMOVE PLANT FROM CONTAINER AND LOOSEN SIDES BY LIGHTLY TEASING OR SCRATCHING ROOT

MASS.



SHRUB CONTAINER PLANTING W/ PLANTING SOIL

SECTION

Drawn: Designed: Checked: CW CW RT PROJECT NO. 190503.1 S 1st Street at St. Helens Street Intersection Improvements

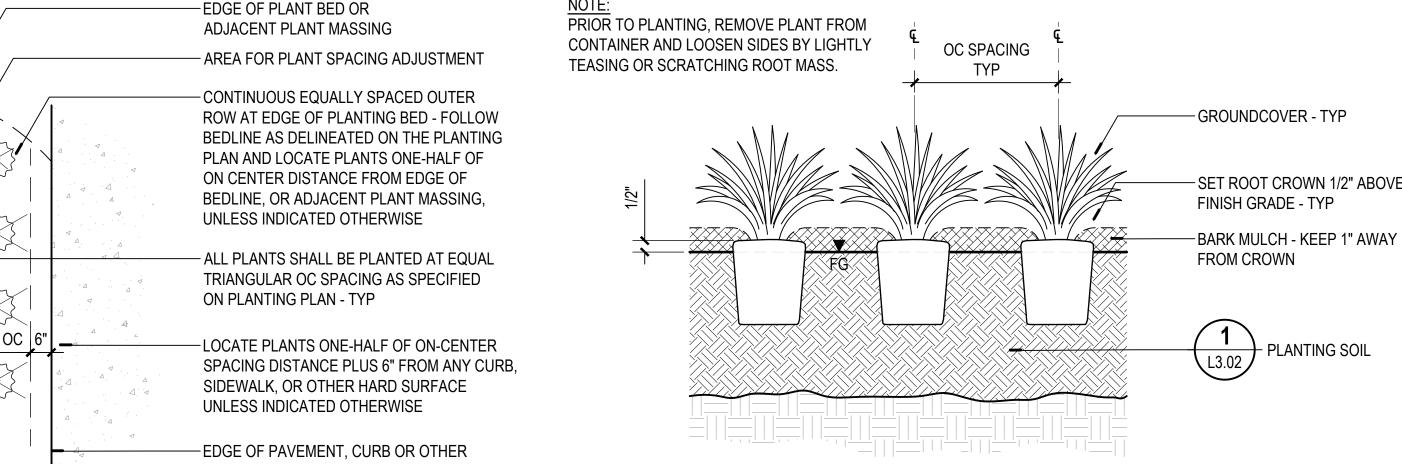
GREENMORKS.

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110 SE Main St., Suite 100, Portland, OR 97214
Ph. 503 222 5612
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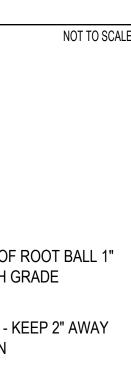
Submission Date:

SHEET NO. L3.02

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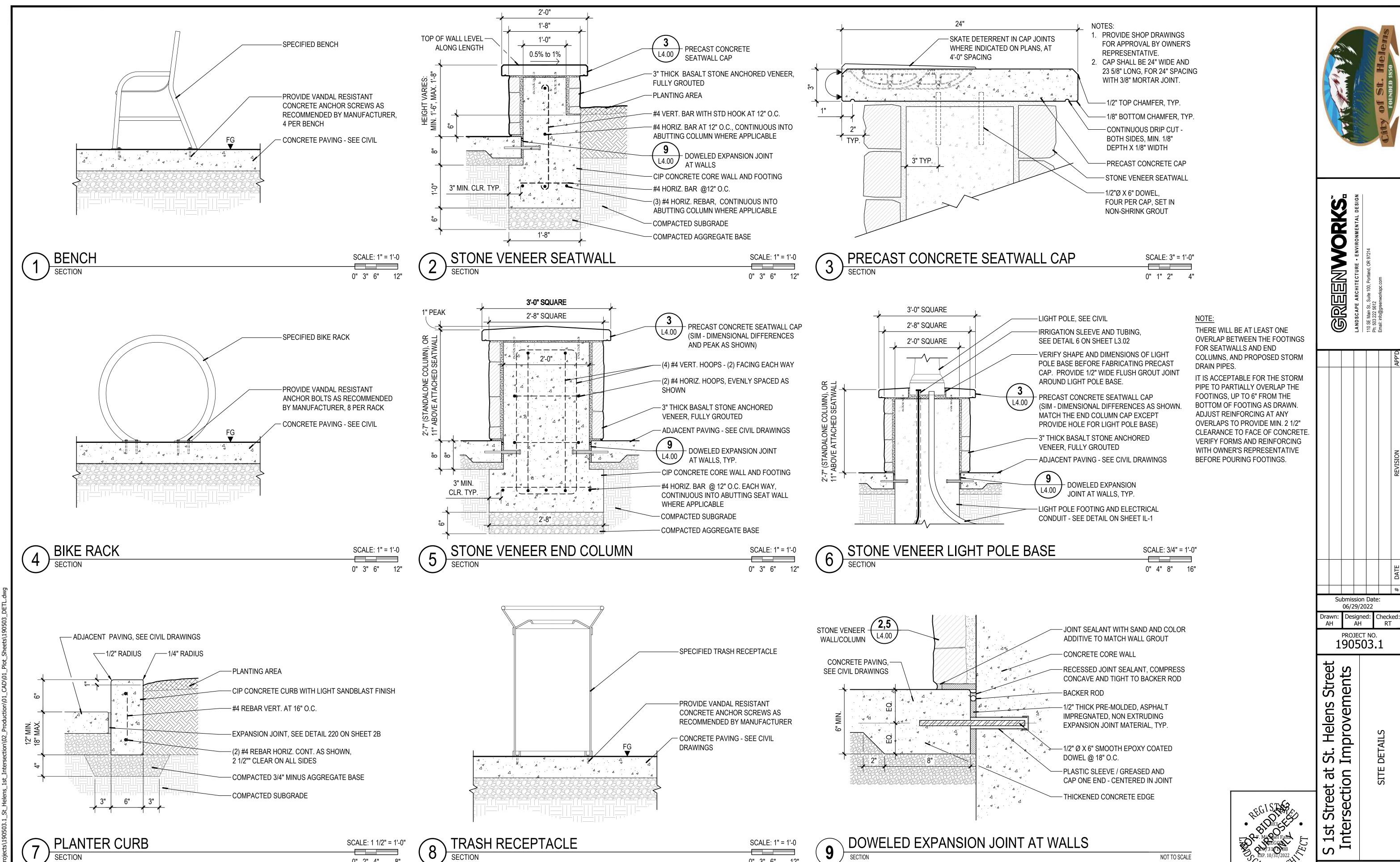


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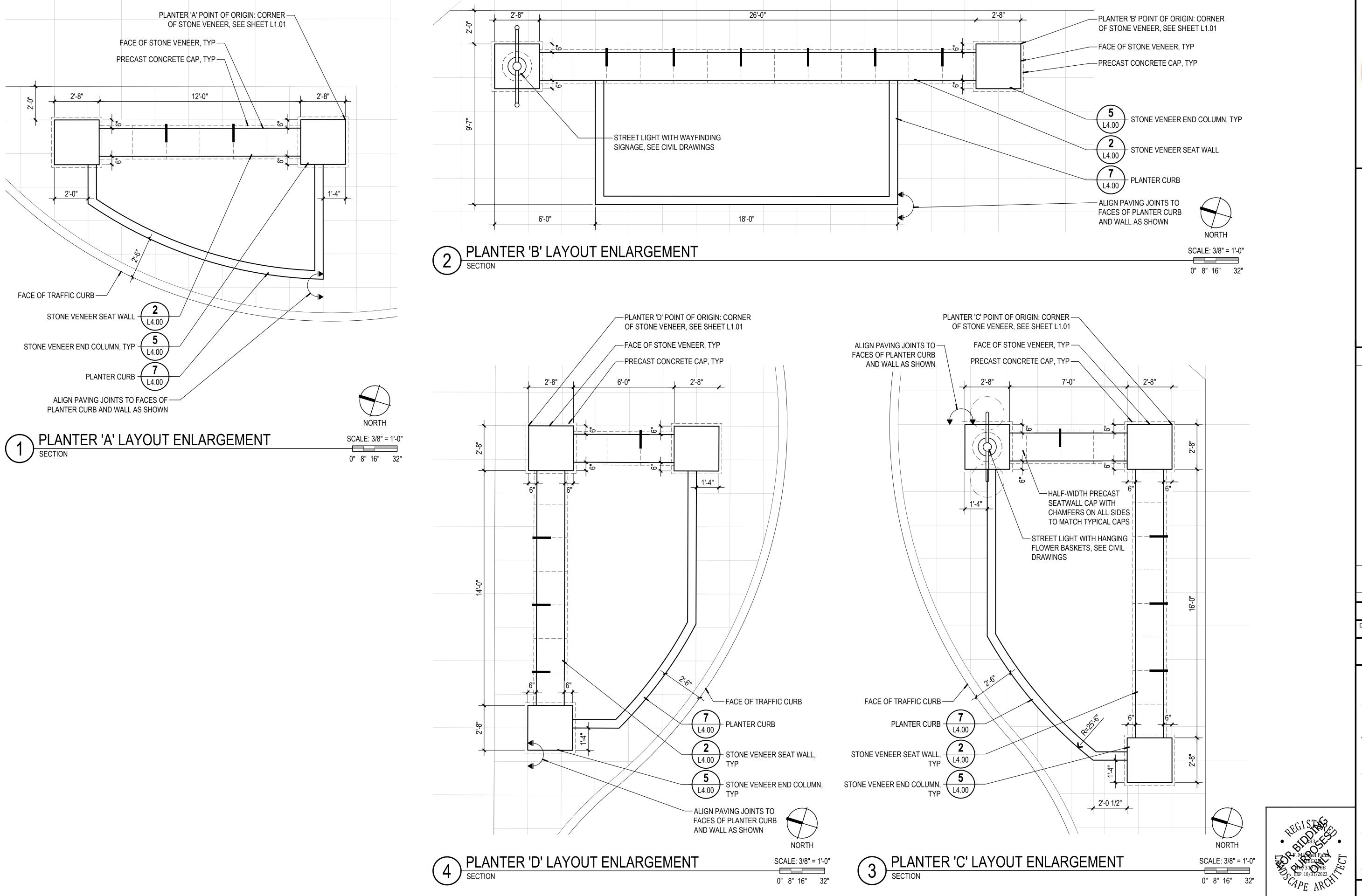


BALL RESTS - DO NOT COMPACT

NOT TO SCALE



SHEET NO. L4.00



GREENWORKS."
LANDSCAPE ARCHITECTURE • ENVIRONMENTAL DESIGN

Submission Date: 06/29/2022 Designed: Checked: AH RT

PROJECT NO. 190503.1

S 1st Street at St. Helens Street Intersection Improvements

SHEET NO. L4.01