

SITE LOCATION MAP  
(NOT TO SCALE)

# WORK ORDER PLANS NO PLATTING ACTION PROPOSED 605 & 613 ST HELENS AVE TACOMA, WA 98402

## SPECIAL TRAFFIC CONTROL REQUIREMENTS

LOCATION: 605 & 613 ST HELENS AVE. THE FOLLOWING SPECIAL TRAFFIC CONTROLS SHALL SUPPLEMENT SECTION 1-07.23 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY CLOSE NON-ARTERIAL STREETS TO THROUGH TRAFFIC, PROVIDED THAT LOCAL ACCESS IS MAINTAINED AT ALL TIMES WITH A MINIMUM OF A 20-FOOT WIDE ACCESS LANE.

THE CONTRACTOR SHALL COORDINATE ANY CLOSURES AND COOPERATE WITH THE VARIOUS BUSINESSES AND / OR RESIDENCES ADJACENT TO THE PROJECT SITE. A MINIMUM OF ONE ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES.

THREE (3) WORKING DAYS PRIOR TO ANY STREET CLOSURE, THE CONTRACTOR SHALL NOTIFY:

- TACOMA PUBLIC WORKS ENGINEERING DIVISION (253-591-5500)
- TACOMA PUBLIC WORKS STREETS AND GROUNDS (253-591-5495)
- TACOMA PUBLIC WORKS SOLID WASTE (253-591-5544)
- TACOMA FIRE DEPARTMENT (253-591-5733)
- TACOMA POLICE DEPARTMENT (253-591-5951)
- LESA COMMUNICATIONS CENTER (253-798-4721 -OPT. #3)
- TACOMA PUBLIC SCHOOLS TRANSPORTATION OFFICE (253-571-1853)
- PIERCE TRANSIT (253-581-8109)

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## EXISTING CONDITIONS NOTES

1. EXISTING CONDITIONS ARE SHOWN AS DEPICTED ON THE TOPOGRAPHIC SURVEY BY BBA LANDSURVEYING, DATED 3/11/2023, WHICH IS, BY REFERENCE, MADE A PART OF THESE PLANS.

## LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF TACOMA, COUNTY OF PIERCE, STATE OF WASHINGTON AND IS DESCRIBED AS FOLLOWS:

PARCEL A  
LOTS 3 THROUGH 5, AND THE NORTHERLY HALF OF LOT 6, BLOCK 607, MAP OF NEW TACOMA, WASHINGTON TERRITORY, ACCORDING TO THE PLAT FILED FOR RECORD FEBRUARY 3, 1875, IN PIERCE COUNTY, WASHINGTON.

PARCEL B  
LOT 7 AND THE SOUTHERLY HALF OF LOT 6, BLOCK 607, MAP OF NEW TACOMA, WASHINGTON TERRITORY, ACCORDING TO THE PLAT FILED FOR RECORD FEBRUARY 3, 1875, IN PIERCE COUNTY, WASHINGTON.

BOTH SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

## ABBREVIATIONS

ACC	ASPHALTIC CEMENT CONCRETE	LB	POUND(S)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LF	LINEAR FEET
ARCH	ARCHITECT(URAL)	MAX	MAXIMUM
BLDG	BUILDING	ME	MATCH EXISTING ELEVATION
BVC	BEGINNING OF VERTICAL CURVE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
BW	BUTT WELDED	MFR	MANUFACTURER
CB	CATCH BASIN	MH	MANHOLE
CF	CUBIC FEET (FOOT)	MJ	MECHANICAL JOINT
CI	CAST IRON	MIN	MINIMUM
CL	CLASS	MISC	MISCELLANEOUS
CMP	CORRUGATED METAL PIPE	MON	MONUMENT
CO	CLEANOUT	N	NORTH(ING)
CONC	CONCRETE	NO (#)	NUMBER
CPEP	CORRUGATED POLYETHYLENE PIPE	OC	ON CENTER
CY	CUBIC YARD	OFF	OFFSET
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PCC	PORTLAND CEMENT CONCRETE
DDCV	DOUBLE DETECTOR CHECK VALVE	PIV	POST INDICATOR VALVE
DEPT	DEPARTMENT	PSF	POUNDS PER SQUARE FOOT
DI	DUCTILE IRON	PSI	POUNDS PER SQUARE INCH
DIA (Ø)	DIAMETER	PT	POINT OF TANGENCY
DS	DOWNSPOUT	PVC	POLYVINYL CHLORIDE
E	EAST(ING)	PVI	POINT OF VERTICAL INFLECTION
ELEV	ELEVATION	R	RIGHT
EOP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
W/	WITH	REF	REFERENCE
WWF	WELDED WIRE FABRIC	REQD	REQUIRED
EVC	END OF VERTICAL CURVE	ROW	RIGHT OF WAY
FDC	FIRE DEPARTMENT CONNECTION	SAN	SANITARY SEWER
FFE	FINISH FLOOR ELEVATION	SHT	SHEET
FG	FINISHED GRADE	SPEC	SPECIFICATION(S)
FH	FIRE HYDRANT	STA	STATION
FL	FLANGED (PIPING)	SS	SANITARY SEWER
FL	FLOWLINE (GRADING)	SD	STORM DRAIN
FOC	FACE OF CURB	STD	STANDARD
FT (')	FOOT (FEET)	TC	TOP OF CURB
GV	GATE VALVE	TESC	TEMP EROSION AND SEDIMENT CONTROL
HDPE	HIGH DENSITY POLYETHYLENE	TEMP	TEMPORARY
HORIZ(H)	HORIZONTAL	TPN	TAX PARCEL NUMBER
HMA	HOT MIX ASPHALT	TYP	TYPICAL
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
IE	INVERT ELEVATION	WM	WATER METER
L	LEFT		

## RESTORATION NOTE

RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA ROW RESTORATION POLICY AS ADOPTED AUGUST, 2017. THE CITY OF TACOMA INSPECTOR SHALL HAVE THE FINAL DIRECTION FOR LIMITS OF RESTORATION. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 24 MONTHS FROM THE DATE OF CITY APPROVAL. THE CITY RESERVES THE RIGHT TO REQUIRE REVISIONS, ADDITIONS, DELETIONS, OR MODIFICATIONS SHOULD CONSTRUCTION BE DELAYED BEYOND THIS TIME LIMITATION OR IF FIELD CONDITIONS ARE DIFFERENT FROM WHAT IS DEPICTED ON THESE PLANS.

## UTILITY CONFLICT NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATES AT 811 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT THE ENGINEER TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

## DEWATERING NOTE

IF DEWATERING IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT A SOURCE CONTROL REPRESENTATIVE WITH THE CITY OF TACOMA AT (253)502-2153. DEWATERING MAY REQUIRE A SPECIAL APPROVED DISCHARGE PERMIT.

## FIRE SPRINKLER SUPPLY NOTE

THE FIRE SPRINKLER SUPPLY LINE FROM THE METER TO THE BUILDING WILL REQUIRE A SEPARATE FIRE PROTECTION PERMIT.

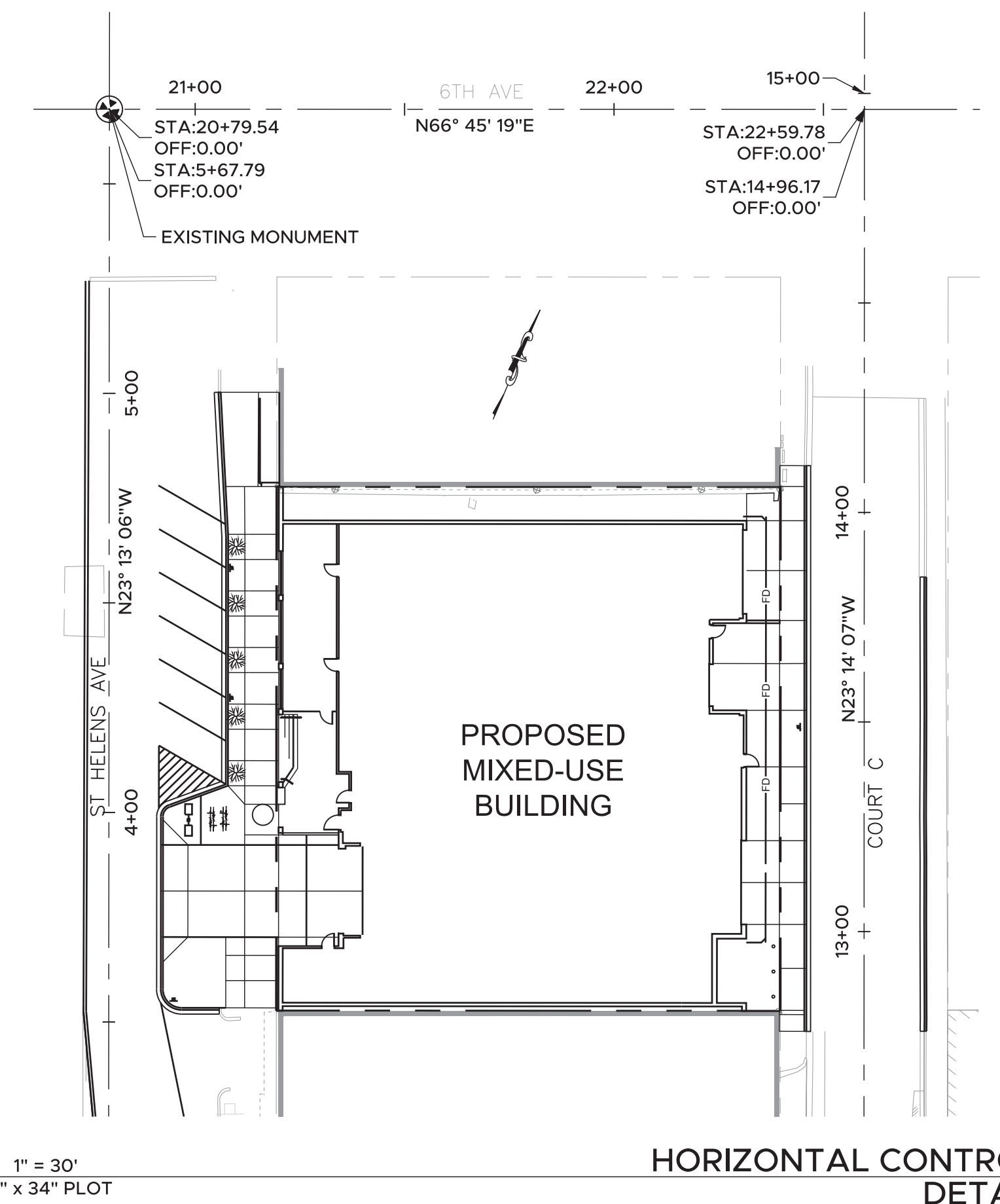
## PAVEMENT REMOVAL NOTE

IT SHALL BE ASSUMED THAT ALL PAVEMENT REMOVAL TO SUBGRADE SHALL INCLUDE REMOVAL AND REPLACEMENT OF BASE COURSE AND SUBGRADE COMPACTION.

## LEGEND\* PROPOSED

BUILDING	=====
PROPERTY LINE	-----
CONTOUR	- - - - -
ROAD CENTER LINE	-----
WATER PIPE	----- W
SEWER LINE	----- SS
STORM DRAIN LINE	----- SD
UNDERGROUND POWER LINE	----- UGP
OVERHEAD POWER LINE	----- OHP
SILT FENCE	-----
SAWCUT	-----
LIMITS OF DISTURBANCE	-----
STORM CLEANOUT	○
TYPE 1 MANHOLE	⊙
SEWER CLEANOUT	⊕
BACKWATER VALVE	∇

\* SEE PROJECT SURVEY FOR EXISTING FEATURES. HATCH, BLOCK, AND LINETYPE SCALES MAY NOT MATCH PLAN.



1" = 30'  
22' x 34" PLOT

HORIZONTAL CONTROL  
DETAIL

## OWNER/APPLICANT

ENCOMPASS PROPERTY MANAGEMENT  
PO BOX 1711  
GIG HARBOR, WA 98335  
(360) 340-5390

## ENGINEER

NICK TAYLOR PE  
IRIS GROUP CIVIL ENGINEERS  
299 N MARKET ST  
CHEHALIS, WA 98532  
(360) 890-8955  
NTAYLOR@IRISGROUPCONSULTING.COM

## RELATED PERMITS

SDEV 22-0421  
BLDCN 22-0084  
SDEV 22-0475

## SITE DATA

PARCEL #: 2006070020 & 2006070030  
SITE ADDRESS: 605 & 613 ST HELENS AVE  
TACOMA, WA 98402  
GROSS ACREAGE: 0.35 AC (PER SURVEY DATA)  
ZONING: DOWNTOWN COMMERCIAL CORE (DCC)  
EXISTING USE: VACANT  
PRESIDING JURISDICTION: CITY OF TACOMA

## BASIS OF BEARING

WASHINGTON COORDINATE SYSTEM, NAD83(91), NORTH ZONE, DERIVED FROM WASHINGTON STATE REFERENCE NETWORK - ACCEPTED THE BEARING OF N 54°48'43" E BETWEEN CITY OF TACOMA POINT NOS. 965 AND 922, ALONG DIVISION AVE, BASED ON FOUND MONUMENTS, PER CITY OF TACOMA SURVEY CONTROL DATABASE.

## VERTICAL DATUM

NGVD29 - ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY CITY OF TACOMA SURVEY CONTROL DATABASE.

POINT ID NO. 1208 - BRASS DISK AT THE INTERSECTION OF 6TH AVE AND BROADWAY AVE.

ELEVATION: 181.575 FEET

## NOTE

CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL CUSTOM BENDS, CUSTOM FITTINGS, AND ALL OTHER CUSTOM PRODUCTS NECESSARY TO COMPLETE THE WORK DESCRIBED HEREIN.

FILE NAME: Z:\P\EP\101\CAD\Sheets\1 COVER.dwg DATE/TIME: 3/2/2024 5:56:38 PM



360-890-8955 | 299 N Market Blvd, Chehalis, WA 98532



Know what's BELOW  
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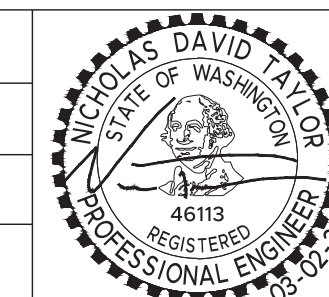
NO

REVISION

DATE

APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
BY	DESIGNED	CHECKED
DATE	DRAWN	PROJECT NAME
FIELD BOOKS	DRAWING NAME	



SITE & BUILDING DIVISION

CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
COVER  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130

SHEET NO. C1  
SHEET 1 of 21

**UTILITY NOTES (ONSITE)**

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- ALL FILL MATERIAL SHALL BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- MINIMUM WATER AND SANITARY SEWER TRENCH WIDTH SHALL BE 2 FEET.
- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
- LINE UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING.
- ALL NECESSARY INSPECTION AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- THE FIRE CHIEF AND SUPERINTENDENT OF PUBLIC WORKS MUST BE NOTIFIED FIVE (5) WORKING DAYS IN ADVANCE BEFORE SHUTDOWN OF THE WATER MAIN CAN OCCUR.
- PRIOR TO CONSTRUCTION A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS UTILITIES. THE OWNER AND THE CONTRACTORS NEED TO BE IN ATTENDANCE.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND/OR GAS LINE (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATERLINE SHALL BE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 AND ANSI 21.11 (AWWA C-15) (CLASS 50).
- ONSITE STORM PIPE UNLESS OTHERWISE NOTED SHALL BE DOUBLE WALLED SMOOTH INTERIOR HDPE PIPE CONFORMING TO AASHTO M-252
- WATER DISTRIBUTION PIPING AND ASSOCIATED APPURTENANCES SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE PLASTIC PIPE INSTITUTE'S POLYETHYLENE PIPING SYSTEMS FIELD MANUAL FOR MUNICIPAL WATER APPLICATIONS.
- SANITARY SEWER PIPE SHALL BE SDR35 PVC UNLESS NOTED OTHERWISE.
- MINIMUM HORIZONTAL DISTANCE BETWEEN WATER AND STORM SEWER PIPES SHALL BE 5' FROM OUTSIDE TO OUTSIDE OF PIPES. MINIMUM SEPARATION BETWEEN WATER AND SANITARY SEWER PIPES SHALL BE 10' HORIZONTALLY AND 1.5' VERTICALLY FROM OUTSIDE TO OUTSIDE OF PIPE.
- CLEANOUTS LOCATED IN WALKING AREAS SHALL HAVE FLUSH-MOUNTED, SLIP RESISTANT LIDS WITH COEFFICIENTS OF FRICTION 0.6 OR GREATER.
- 90° BENDS IN ALL STORM AND SANITARY SEWER PIPES SHALL BE CONSTRUCTED OF (2) 45° BENDS WITH CLEANOUTS UPSTREAM.

**UTILITY SEPARATION NOTES**

- STORM SEWERS:
- A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION SHOULD BE MAINTAINED BETWEEN ALL STORM SEWERS AND ANY OTHER EXISTING UTILITIES. THE DISTANCE BETWEEN UTILITIES SHALL BE MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE.
- SANITARY SEWERS:
- A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION SHOULD BE MAINTAINED BETWEEN ALL SANITARY SEWER MAINS AND ANY OTHER EXISTING UTILITIES, EXCEPT POTABLE WATER.
  - A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION AND EIGHTEEN (18) INCHES VERTICAL SEPARATION SHOULD BE MAINTAINED BETWEEN ALL GRAVITY SANITARY SEWERS AND POTABLE WATER LINES.
  - GRAVITY SANITARY SEWER LINES NOT MEETING THE MINIMUM SEPARATION REQUIREMENTS AND ALL PRESSURIZED SANITARY SEWER LINES SHALL BE DESIGNED IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY'S CRITERIA FOR SEWAGE WORKS DESIGN.
  - THE DISTANCE BETWEEN UTILITIES SHALL BE MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE.
- WATER SERVICES:
- A MINIMUM SEPARATION OF FIVE (5) FEET MUST BE MAINTAINED BETWEEN THE WATER SERVICE PIPE AND ANY OTHER UTILITY. A VERTICAL SEPARATION BETWEEN THE WATER SERVICE PIPE AND ALL OTHER UTILITIES, EXCEPT SANITARY SEWERS, OF SIX (6) INCHES IS REQUIRED.

**UTILITY NOTES (OFFSITE)**

- PIPE WITHIN CITY ROW SHALL BE PER CITY ROW DESIGN MANUAL CHAPTER 11 SECTION 4.3

**TESC/DEMOLITION NOTES (ONSITE)**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE ALL WORK AND TO DISPOSE OF ALL DEMOLITION DEBRIS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. PRIOR TO ANY WORK CONTRACTOR SHALL COMPLETE ALL TESTING FOR HAZARDOUS MATERIALS AND SHALL ABATE ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONTRACTOR SHALL OBTAIN AND FULFILL THE REQUIREMENTS OF ANY PERMITS REQUIRED FOR THE PROPOSED DEMOLITION ACTIVITY.
- CONTRACTOR SHALL COORDINATE WITH AND RECEIVE APPROVAL FROM ANY PUBLIC OR PRIVATE UTILITIES AS REQUIRED FOR ABANDONMENT OF UTILITY SERVICES. CONTRACTOR SHALL APPLY FOR AND COORDINATE ANY WORK THAT MUST BE COMPLETED BY THE UTILITY PURVEYOR. CONTRACTOR SHALL ENSURE THAT ALL UTILITIES TO BE MODIFIED OR REMOVED ARE SHUT OFF PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITY.
- PRIOR TO ANY DEMOLITION OR REMOVAL/MODIFICATION OF EXISTING UNDERGROUND UTILITY SERVICES, CONTRACTOR SHALL PERFORM BOTH A PRIVATE AND PUBLIC UTILITY LOCATE TO IDENTIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND PRESERVATION OF ANY EXISTING FEATURES TO REMAIN.
- APPROVAL OF THIS SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- THE IMPLEMENTATION OF THIS SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- DURING THE CONSTRUCTION PERIOD, NO UNAUTHORIZED DISTURBANCE BEYOND THE PROPERTY BOUNDARY SHALL BE PERMITTED.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
- CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED 1/3 OF THE AVAILABLE STORAGE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

**PRODUCT SUBMITTALS**

- MATERIAL SUBMITTALS FOR EVERY MATERIAL SPECIFIED IN THESE PLANS SHALL BE SUBMITTED TO THE CIVIL ENGINEER FOR REVIEW AT LEAST 10 WORKING DAYS PRIOR TO IMPLEMENTATION OF OR CONSTRUCTION WITH SAID MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS ARISING FROM LACK OF TIMELY OR CORRECT SUBMITTALS.
- SUBMITTALS SHALL INCLUDE MANUFACTURER'S MATERIAL SPECIFICATIONS, PRODUCT SAMPLES, MOCKUPS, OR OTHER ITEMS REQUESTED BY THE ENGINEER AFTER THE INITIAL MATERIAL SUBMITTAL.

**SITE PLAN NOTES**

- CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN FOR THE CITY ENGINEER'S APPROVAL PRIOR TO ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS THAT ARE NOT PROPOSED TO BE LANDSCAPED ARE TO RECEIVE SIX INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- ALL SIGNS SHALL BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTRACTOR SHALL ENSURE THAT BOLLARD AND SIGNAGE FOUNDATIONS DO NOT DAMAGE PROPOSED OR EXISTING UTILITIES.

**DIMENSIONING NOTE:**

- ALL SITE DIMENSIONS RELATING TO CURB AND GUTTER ARE TO/FROM FACE OF CURB UNLESS INDICATED OTHERWISE.
- ALL PIPE DIMENSIONS ARE TO CENTER OF ORIGATION/TERMINATION STRUCTURE AND ARE FOR REFERENCE ONLY, NOT FOR ESTIMATING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PIPE LENGTHS BY MEANS OF STRUCTURE POSITION AND SIZE.
- ALL SITE DIMENSIONS RELATING TO THE BUILDING ARE TO/FROM THE EXTERIOR FACE OF THE BUILDING UNLESS INDICATED OTHERWISE.
- ALL SPOT ELEVATIONS SHOWN ARE TO FLOW LINE UNLESS INDICATED OTHERWISE.

**GENERAL NOTES (ONSITE)**

- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROVISIONS AND REQUIREMENTS CONTAINED IN JURISDICTIONAL STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL HAVE A COPY AVAILABLE AT THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES UNLESS AN ENCROACHMENT PERMIT SPECIFIES OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE POLICE, FIRE, AND PUBLIC WORKS DEPARTMENTS AND KEEP THEM INFORMED DAILY REGARDING STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE PUBLIC WORKS DIRECTOR.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONFORM TO EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- THE CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES.
- THE CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR OR HIS DESIGNATED REPRESENTATIVE, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL SUCH CORRECTIVE MEASURES ARE TAKEN.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCIES AND DEPARTMENTS FOR ALL REQUIRED INSPECTIONS PRIOR TO PLACING ANY UTILITIES INTO SERVICE.

**NOTES (ONSITE)**

- SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE CITY OF TACOMA, WA DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS, AS WELL AS THE WSDOT STANDARD SPECIFICATIONS, WHICH ARE HERE BY REFERENCED AS PART OF THESE PLANS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THIS PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON SURVEY PREPARED BY BBA LAND SURVEYING, DATED 3/11/2023. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITE WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY, AS SHOWN ON THE PLANS WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CAUTION - NOTICE TO CONTRACTOR  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- ALL DETAILS PROVIDED IN THESE PLANS SHALL BE APPLIED TO ALL APPLICABLE PROPOSED CONSTRUCTION, REGARDLESS OF WHETHER OR NOT SPECIFIC REFERENCES TO APPLICABLE DETAILS ARE MADE.

**CONSTRUCTION NOTES (ONSITE)**

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE RIGHT-OF-WAY USE AND/OR ANY OTHER RELATED PERMITS REQUIRED PRIOR TO ANY CONSTRUCTION.
- REFER TO ARCHITECTURAL ROOF PLAN FOR THE EXACT LOCATIONS OF DOWNSPOUTS. ALL DOWNSPOUTS MUST BE CONNECTED INTO THE ON-SITE STORM DRAIN SYSTEM.
- WHERE NEW WORK IS SHOWN CONNECTING WITH EXISTING UTILITY, PROVIDE THE NECESSARY COUPLINGS FOR THE CONNECTION AND SIZE TRANSITION IF REQUIRED.
- ALL CASTINGS SHALL BE SET TO FINISHED GRADE. CASTING SET IN THE TRAFFIC AREA SHALL CONFORM TO WSDOT STANDARD 9-06.14 AND 9.06 (g).
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT BLUELINE PRINTS PRIOR TO FINAL APPROVAL. ALL DEVIATIONS FROM THE ORIGINAL PLANS MADE DURING THE COURSE OF THE CONSTRUCTION INCLUDING LOCATIONS, INVERTS AND DEPTHS OF UTILITIES SHOULD BE CLEARLY MARKED ON THE AS-BUILT PLANS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 4 FEET IN DEPTH.
- ANY MATERIAL WHICH IS NOT SUITABLE FOR CONSTRUCTION PURPOSES SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED BY GRAVEL BASE CONFORMING TO SECTION 9-03.10 OF THE WSDOT STANDARD SPECIFICATIONS.
- ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY PROBLEMS OCCURRING PRIOR TO FINAL ACCEPTANCE BY THE ARCHITECT AND CITY SHALL BE CORRECTED BY THE CONTRACTOR.
- ANY REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE APPLICANT'S ENGINEER AND THE CITY OF TACOMA PRIOR TO IMPLEMENTATION IN THE FIELD.

REFER TO SHEET C21 FOR ALL NOTES PERTAINING TO WORK WITHIN CITY ROW

**STRIPING NOTES (ONSITE)**

- ALL PROPOSED PARKING STRIPING SHALL BE 4" DOUBLE COATED WIDE WHITE LINES, UNLESS OTHERWISE REQUIRED PER APPLICABLE CODE.
- ACCESSIBLE ROUTE STRIPING SHALL BE AT 45° ANGLE TO ACCESSIBLE ROUTE AND AT 24" ON-CENTER.

**LANDSCAPING NOTES (ONSITE)**

- SEE ARCHITECT PLANS FOR PROPOSED LANDSCAPING.

**EARTHWORK AND PAVEMENT NOTES (ONSITE)**

- MATERIAL THICKNESS IS COMPACTED DEPTH. APPLIES TO ALL SECTIONS.
- ALL EARTHWORK AND PAVING SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT PREPARED BY GEOTECH CONSULTANTS INC., DATED MARCH 9, 2018. WHICH IS HEREBY REFERENCED AS PART OF THESE PLANS.
- CONTRACTOR SHALL PROVIDE A TACK COAT TO FACE OF PCC WHERE PCC CONTACTS ASPHALT. NO DEVIATIONS OR SUBSTITUTIONS ARE ALLOWED.
- ALL ONSITE NON-STRUCTURAL PORTLAND CEMENT CONCRETE PAVEMENT MIXTURE SHALL BE IN ACCORDANCE WITH AIR-ENTRAINED CONCRETE FOR PAVEMENT SECTION 5.05 OF THE WSDOT STANDARD SPECIFICATIONS. THE MIXTURE SHALL BE DESIGNED TO DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A 4" MAXIMUM SLUMP AND 5%-8% ENTRAINED AIR. CONCRETE PAVEMENT IN DRIVING AREAS SHALL BE PER STRUCTURAL PLANS.

**ADDITIONAL NOTES REQUESTED BY CITY**

- CHANGES OR REVISIONS TO THE ORIGINALLY APPROVED PERMIT SUBMITTAL SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION
- THE APPLICANT SHALL SUBMIT RECORD DRAWINGS ("AS-BUILTS") TO THE CITY WHEN THE PROJECT IS COMPLETED
- THE CONTRACTOR SHALL MAINTAIN A SINGLE HARDCOPY OF ALL PLANS WITH ANY APPROVED CHANGES INDICATED IN RED AND SHALL PROVIDE THESE PLANS TO THE PROJECT CIVIL ENGINEER FOR REVIEW/APPROVAL PRIOR TO FINAL ACCEPTANCE OF IMPROVEMENTS
- THE ENGINEER OF RECORD SHALL PROVIDE AN ENGINEER'S CERTIFICATION TO THE CITY OF TACOMA AFTER FACILITY INSTALLATION AND PRIOR TO PERMIT FINAL INSPECTION AND/OR CLOSEOUT

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FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
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DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



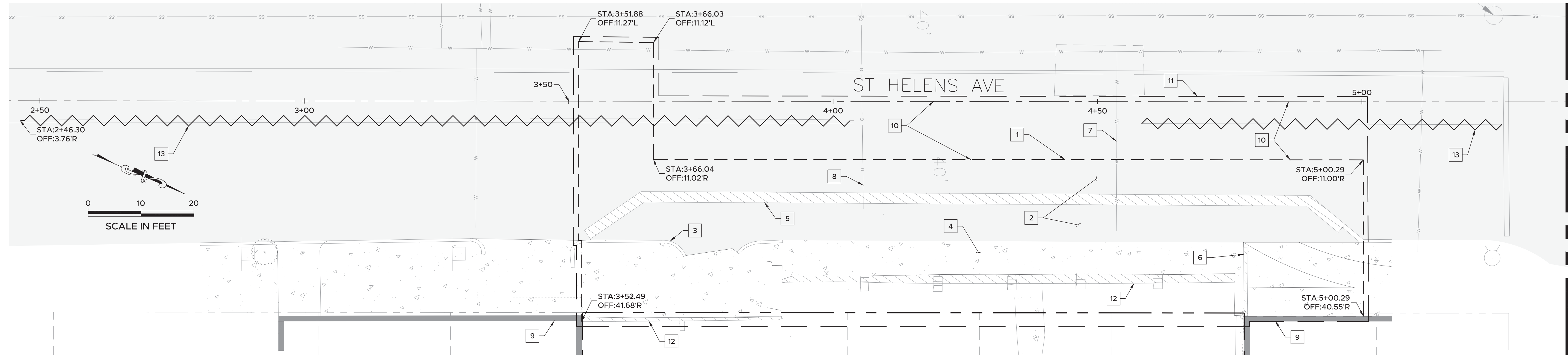
CITY OF TACOMA  
**DEPARTMENT OF PUBLIC WORKS**

**NOTES**

605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

SITE & BUILDING DIVISION

WO 22-0130
SHEET NO.
<b>C2</b>
SHEET
2 of 21



MATCHLINE STA 5+39.00  
SEE DETAIL 1/C20

1

DEMOLITION AND TESC PLAN SOUTH

**KEY NOTES #**

1. PROPOSED SAWCUT TO MINIMUM DEPTH REQUIRED AT FULL DEPTH PAVEMENT REPLACEMENT LOCATIONS (TYP). SEE SHEET C5 FOR OVERLAY AND FULL DEPTH REPLACEMENT LOCATIONS.
2. DEMOLISH AND REMOVE EXISTING ASPHALT AND BASE WITHIN SAWCUT LIMITS
3. DEMOLISH AND REMOVE EXISTING CURB AND GUTTER WITHIN DEMOLITION LIMITS
4. DEMOLISH AND REMOVE EXISTING SIDEWALK WITHIN DEMOLITION LIMITS TO NEAREST JOINT.
5. REMOVE EXISTING JERSEY BARRIERS.
6. REMOVE EXISTING WALL IN ACCORDANCE WITH SEPARATE STRUCTURAL PLANS. ALL REQUIRED SHORING SHALL BE IN PLACE PRIOR TO DEMOLITION/CONSTRUCTION.
7. EXISTING WATER SERVICE TO BE REMOVED BY TACOMA WATER
8. EXISTING GAS SERVICE TO BE EXTENDED TO SITE BY TACOMA POWER
9. PROTECT EXISTING BUILDING TO REMAIN.
10. GRIND ASPHALT AS NECESSARY FOR OVERLAY TO CENTERLINE. SEE SHEET C5 FOR OVERLAY LOCATIONS.
11. PROPOSED LIMITS OF DEMOLITION/DISTURBANCE. SEE SDEV PLANS FOR ONSITE TESC MEASURES.
12. MODIFY EXISTING WALL IN ACCORDANCE WITH SEPARATE STRUCTURAL PLANS. ALL REQUIRED SHORING SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
13. HYDROBLAST TO REMOVE EXISTING STRIPING.
14. PROPOSED DOUBLE YELLOW THERMOPLASTIC STRIPING WITH RPMS PER DETAIL 2/C19
15. SEE SHEET C5 FOR PARKING AREA STRIPING
16. PROPOSED 4" WIDE DOUBLE-COATED WHITE STRIPE

**SHORING NOTE**

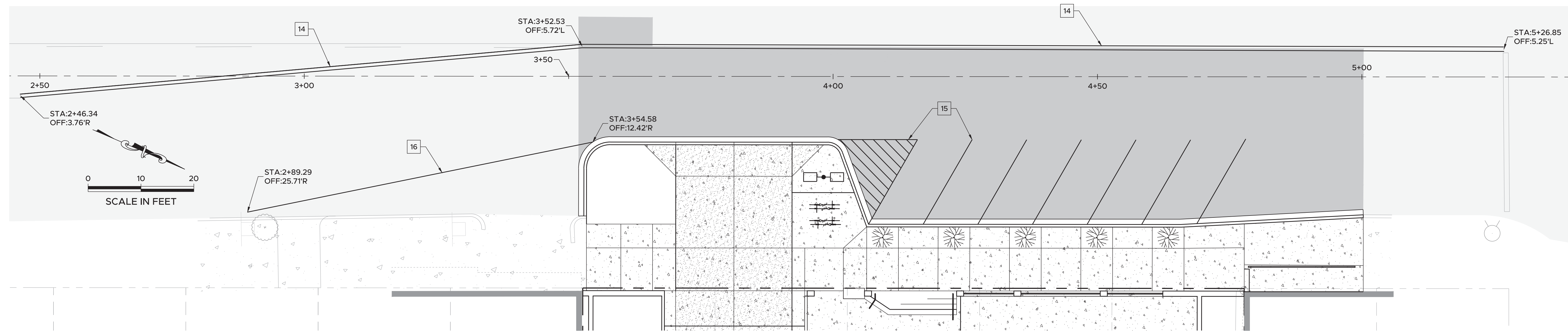
ALL SHORING SHALL BE IN PLACE, IN ACCORDANCE WITH THE PROJECT STRUCTURAL PLANS PRIOR TO DEMOLITION OR MODIFICATION OF EXISTING STRUCTURES INCLUDING, BUT NOT LIMITED TO, RETAINING WALLS. THE PURPOSE OF THIS PLAN IS TO SHOW STRUCTURAL FEATURES TO BE REMOVED/MODIFIED, NOT HOW TO REMOVE/MODIFY THEM.

**INLET PROTECTION NOTE**

SEE DETAIL 4/C18 FOR REQUIRED INLET PROTECTION LOCATIONS.

**DEMOLITION NOTE**

CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE DEMOLITION OF ALL FEATURES NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS REGARDLESS OF THE DEMOLITION WORK DESCRIBED ON THIS PLAN.



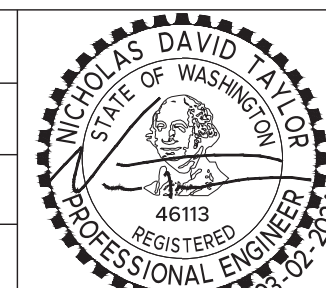
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SEE DETAIL 2/C20

2

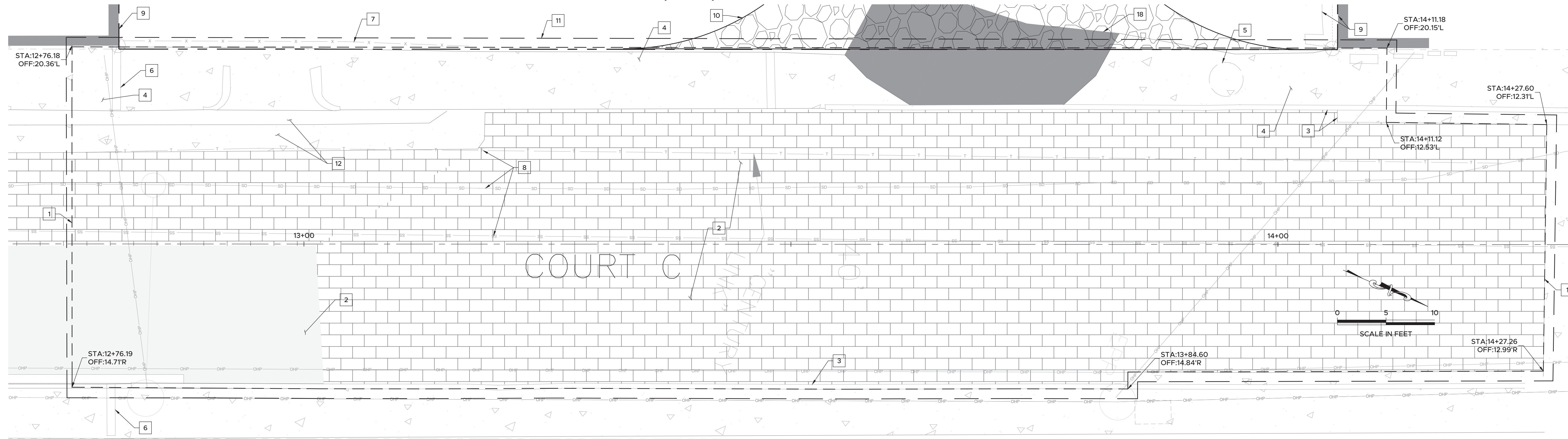
STRIPING PLAN SOUTH

NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



SITE & BUILDING DIVISION



1

COURT C  
STA 10+15 - 10+80

**DEMOLITION NOTE**

CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE DEMOLITION OF ALL FEATURES NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS REGARDLESS OF THE DEMOLITION WORK DESCRIBED ON THIS PLAN.

**INLET PROTECTION NOTE**

SEE DETAIL 4/C18 FOR ADDITIONALLY REQUIRED INLET PROTECTION LOCATIONS.

**SHORING NOTE**

ALL SHORING SHALL BE IN PLACE, IN ACCORDANCE WITH THE PROJECT STRUCTURAL PLANS PRIOR TO DEMOLITION OR MODIFICATION OF EXISTING STRUCTURES INCLUDING, BUT NOT LIMITED TO, RETAINING WALLS. THE PURPOSE OF THIS PLAN IS TO SHOW STRUCTURAL FEATURES TO BE REMOVED/MODIFIED, NOT HOW TO REMOVE/MODIFY THEM.

**KEY NOTES #**

1. SAWCUT AND REMOVE ACC AND MORTARED BRICKS TO NEAREST TRANSVERSE JOINT.
2. REMOVE ALL MORTARED BRICKS WITHIN DEMOLITION LIMITS AND DISPOSE OF PER CITY OF TACOMA REQUIREMENTS.
3. DEMOLISH AND REMOVE EXISTING CURB AND GUTTER TO JOINT AT EDGE OF SIDEWALK.
4. DEMOLISH AND REMOVE EXISTING SIDEWALK WITHIN DEMOLITION LIMITS TO NEAREST JOINT.
5. ABANDON EXISTING STORMWATER CATCH BASIN. REMOVE CONTENTS AND FILL WITH SAND OR CONTROLLED DENSITY FILL PER WSDOT SPECIFICATIONS.
6. PRESERVE EXISTING SCUPPER AND COVER. REPLACE IN KIND IF DAMAGED DURING CONSTRUCTION.
7. DEMOLISH AND REMOVE EXISTING FENCE.
8. PRESERVE AND PROTECT EXISTING UTILITY TO REMAIN.
9. PRESERVE AND PROTECT EXISTING BUILDING AND FOUNDATION TO REMAIN.
10. PROPOSED CONSTRUCTION ENTRANCE PER DETAIL 1/C11
11. PROPOSED LIMITS OF DISTURBANCE/DEMOLITION. SEE SDEV PLANS FOR ONSITE TESC MEASURES.
12. DEMOLISH AND REMOVE EXISTING CONCRETE SURFACING AND CURB/GUTTER WITHIN DEMOLITION LIMITS.

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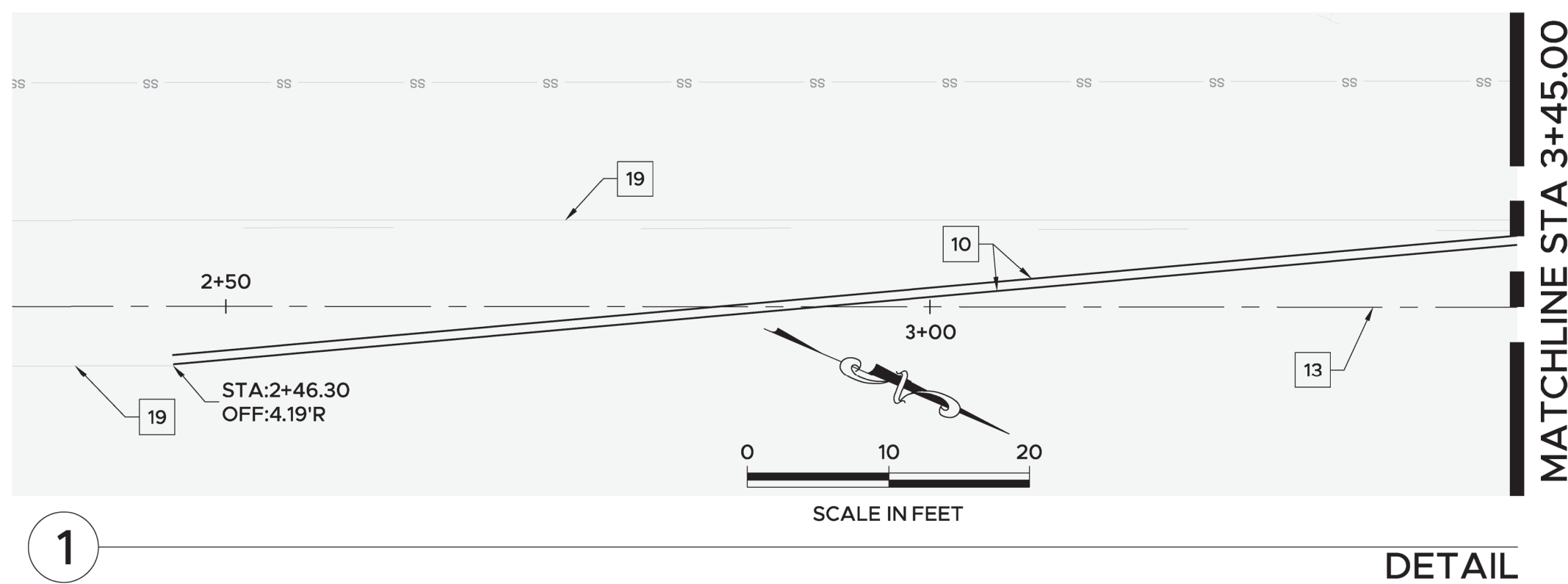
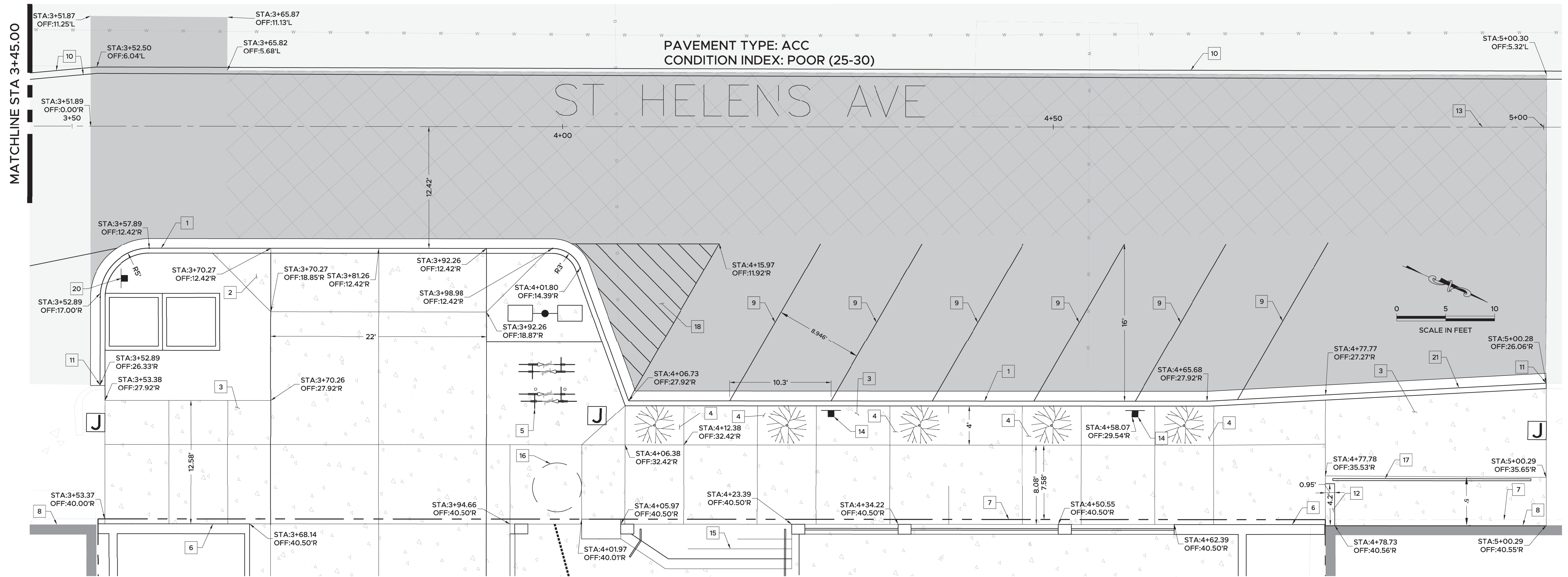
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	03/02/2024	
BY	DESIGNED	CHECKED
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DATE	DRAWN	PROJECT NAME
	RCB	EPM01
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
COURT C DEMOLITION AND TESC  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130  
SHEET NO. **C4**  
SHEET 4 of 21



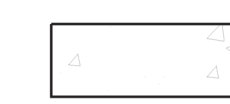



**NOTES**

1. SEE SHEET C7 FOR ROADWAY STATIONING CONTROL
2. SEE SHEET C7 FOR UTILITY PLANS
3. SEE SHEET C6 FOR GRADING PLANS
4. ALL SIGNS SHALL BE INSTALLED PER DETAIL 1/C14

**KEY NOTES #**

1. PROPOSED CONCRETE CURB AND GUTTER PER DETAIL 1/C12 (TYP)
2. PROPOSED DRIVEWAY PER DETAIL 2,3/C12
3. PROPOSED SIDEWALK PER DETAIL 4/C12
4. PROPOSED 4' X 6' TREE WELL WITH SMALL TREE PER DETAILS 3,4/C15. APPLY DETAIL 3/C19 AT ALL TREE WELLS.
5. PROPOSED BIKE RACK. SEE SEPARATE ARCHITECTURAL PLANS.
6. PROPOSED BUILDING FACE (TYP)
7. EXISTING PROPERTY BOUNDARY
8. EXISTING BUILDING FACE (TYP)
9. PROPOSED 4" WIDE WHITE DOUBLE-COATED STRIPING PER DETAIL 1/C19
10. PROPOSED DOUBLE YELLOW THERMOPLASTIC STRIPING WITH RPMS PER DETAIL 2/C19. SEE SHEETS C7 AND C20 FOR CONTINUATION OF STRIPING. CONNECT PROPOSED CURB, GUTTER, AND SIDEWALK TO EXISTING. TAPER TO MATCH EXISTING GRADES.
11. PROPOSED CONCRETE STAIR PER DETAIL 3/C11
12. EXISTING ROADWAY CENTERLINE
13. PROPOSED BACK-IN ANGLE PARKING SIGN PER DETAIL 4/C11. SIGN POST SHALL ACCOMMODATE BACK-IN PARKING SIGN (MIN 7' TO BOTTOM OF SIGN), AS WELL AS FUTURE TIME RESTRICTION SIGN ON TOP (MIN 18").
15. PROPOSED CONCRETE STAIRS PER SDEV PLANS
16. PROPOSED ADA TURNING SPACE
17. PROPOSED HANDRAIL TO MATCH EXISTING HANDRAIL
18. PROPOSED STRIPING PER DETAIL 1/C19
19. EXISTING STRIPING (TYP)
20. PROPOSED OM3 OBJECT MARKER SIGN. OM3 SHALL BE SURFACE MOUNTED WITH SPRING ASSEMBLY, AND ORIENTED TO ALLOW FOR VAULT LID TO BE OPENED.
21. PAINT CURB RED TO ANGLE PARKING.

**OFFSITE PAVEMENT SECTION NOTES**

-  PROPOSED PCC SIDEWALK PER DETAIL 4/C12
-  PROPOSED 2" ACC GRIND AND OVERLAY
-  PROPOSED FULL DEPTH ACC PAVEMENT PER DETAILS 1,2,3,4/C13  
ST HELENS AVE IS A "PRINCIPAL ARTERIAL"
-  PROPOSED PCC DRIVEWAY PER DETAIL 2,3/C12

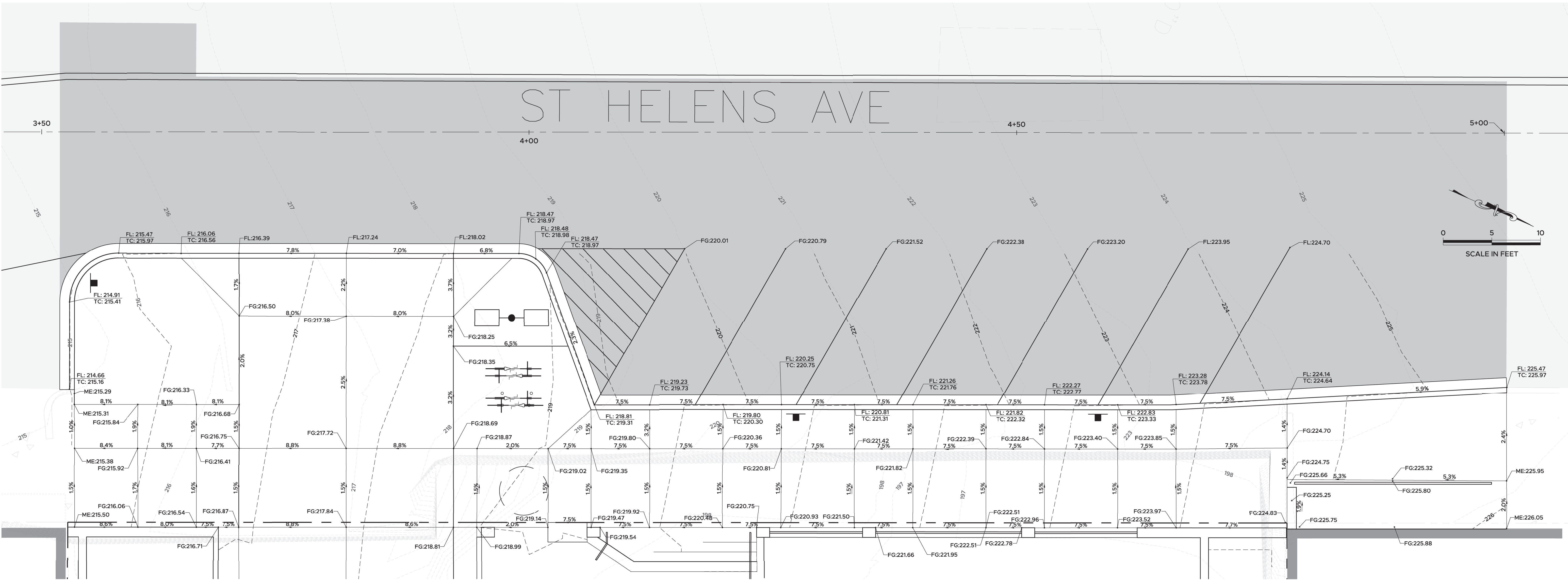
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NO	REVISION	DATE	APPD	FINAL CONSTRUCTION CHECKED BY: NDT DATE: RCB FIELD BOOKS	DATE: 03/02/2024 DESIGNED: NDT DRAWN: RCB DRAWING NAME: EPM01	SCALE: NDT CHECKED: NDT PROJECT NAME: EPM01 REGISTERED PROFESSIONAL ENGINEER DAVID TAYLOR STATE OF WASHINGTON 46113 03-24-2020	CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS ST HELENS ROADWAY PLAN 605 & 613 ST. HELENS AVE TACOMA, WA 98402	WO 22-0130 SHEET NO: C5 SHEET 5 OF 21
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**NOTE**  
 PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL PROPOSED GRADES WHERE CONNECTING TO EXISTING FEATURES AND WHERE "MATCH EXISTING" IS CALLED OUT. ALERT PROJECT ENGINEER IF "MATCH EXISTING" GRADES SHOWN DIFFER FROM ACTUAL EXISTING GRADES.

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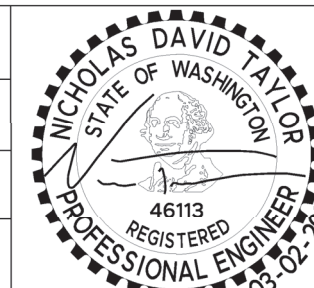
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	RCB	EPM01
FIELD BOOKS	DRAWING NAME	

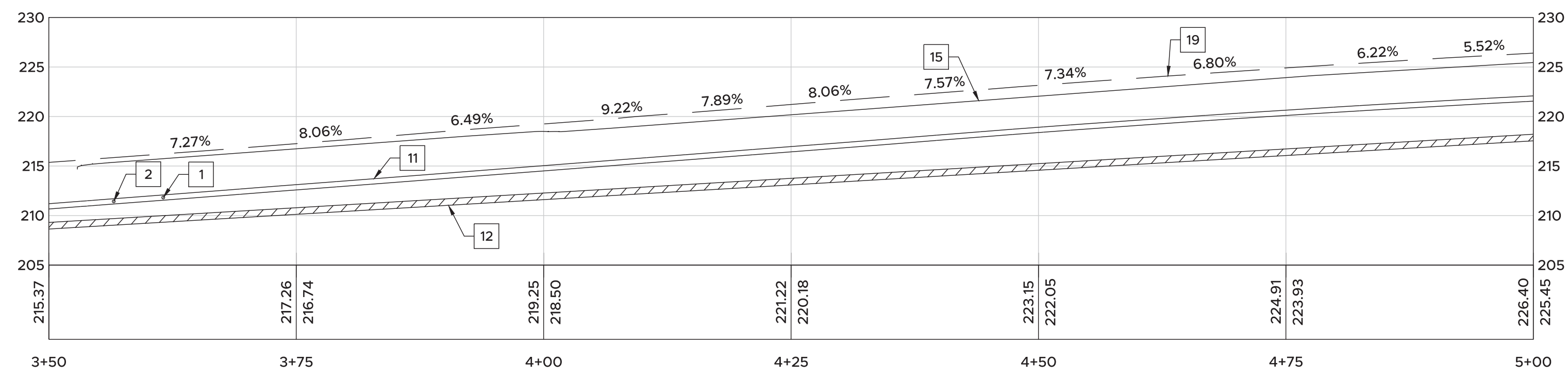
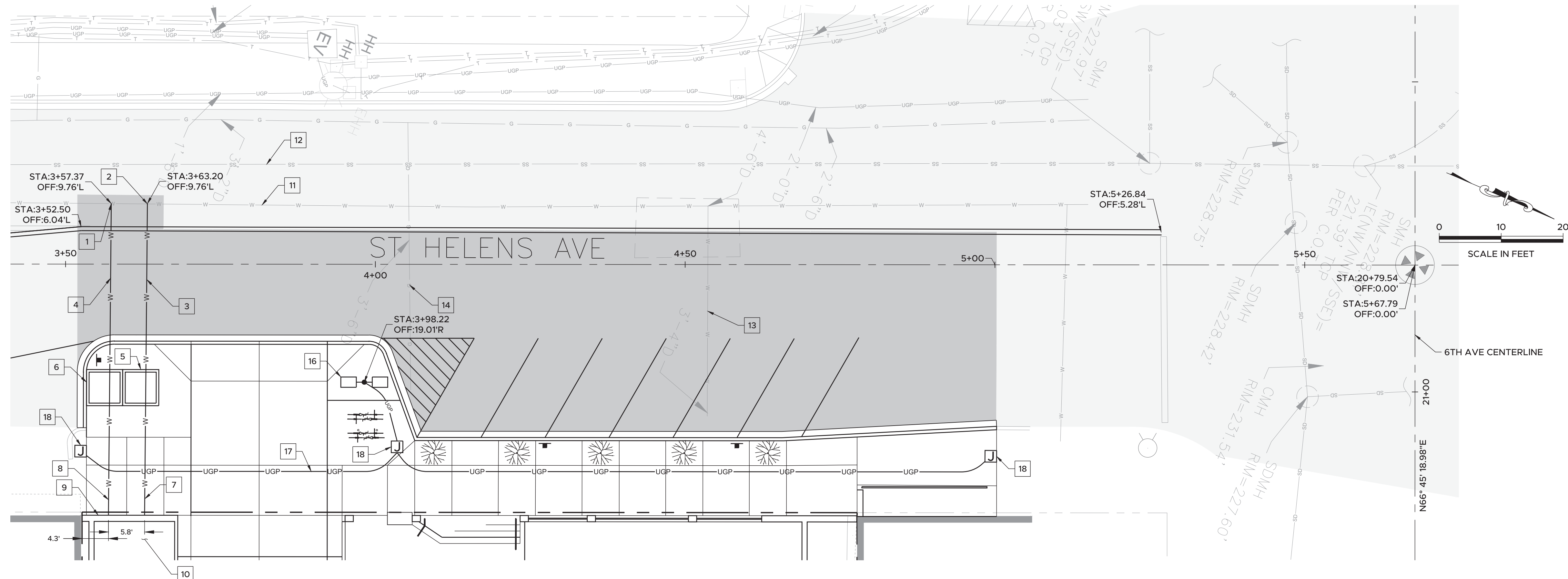


SITE & BUILDING DIVISION

CITY OF TACOMA  
 DEPARTMENT OF PUBLIC WORKS  
 ST HELENS GRADING PLAN  
 605 & 613 ST. HELENS AVE  
 TACOMA, WA 98402

WO 22-0130

SHEET NO. C6  
 SHEET 6 OF 21



1 H: 1"=10'  
H:V = 1:1

ST HELENS PROFILE

- KEY NOTES** #
1. PROPOSED 4" FIRE SERVICE TAP PER TACOMA WATER STANDARDS
  2. PROPOSED 4" DOMESTIC SERVICE TAP PER TACOMA WATER STANDARDS
  3. PROPOSED 27 LF 4" DI DOMESTIC WATER SERVICE LINE PER TACOMA WATER STANDARDS
  4. PROPOSED 27 LF 4" DI FIRE WATER SERVICE LINE PER TACOMA WATER STANDARDS
  5. PROPOSED 4" DOMESTIC WATER SERVICE METER PER TACOMA WATER STANDARDS
  6. PROPOSED 4" FIRE SERVICE METER PER TACOMA WATER STANDARDS
  7. PROPOSED 23 LF 4" DI DOMESTIC SERVICE LINE PER TACOMA WATER STANDARDS
  8. PROPOSED 23 LF 4" DI FIRE SERVICE LINE PER TACOMA WATER STANDARDS
  9. PROPOSED 5" STORZ WALL-MOUNTED FIRE DEPARTMENT CONNECTION
  10. RISER ROOM WITH DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTOR AND FIRE SERVICE DOUBLE DETECTOR CHECK VALVE ASSEMBLY
  11. EXISTING 6" DI WATER MAIN AT APPROXIMATELY 4.5' BELOW GROUND. CONTRACTOR SHALL POTHOLE TO VERIFY DEPTH PRIOR TO SERVICE INSTALLATIONS.
  12. EXISTING 8" SANITARY SEWER MAIN
  13. EXISTING WATER SERVICE TO BE ABANDONED PER TACOMA WATER STANDARDS
  14. EXISTING GAS SERVICE TO BE EXTENDED TO THE SITE PER TACOMA POWER STANDARDS
  15. PROPOSED CURB FLOWLINE
  16. PROPOSED LUMINAIRE PER DETAILS 3.4/C17 AND 1.23/C18
  17. PROPOSED 2" SCHEDULE 80 PVC CONDUIT WITH 3/8" PULL ROPE
  18. PROPOSED TYPE 1 JUNCTION BOX WITH NON-SLICK ADA COMPLIANT LID PER DETAILS 1.2/C17. ALIGN TO INTERCEPT EXISTING CONDUIT.
  19. EXISTING CENTERLINE GRADE

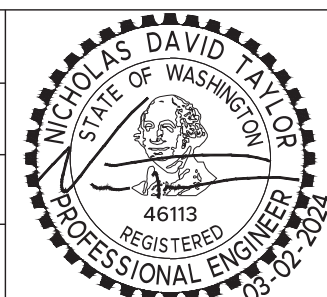
- UTILITY NOTES**
1. ALL TRENCHING AND RESTORATION SHALL BE PER DETAILS 1.2/C15
  2. ALL PIPE BEDDING AND BACKFILL SHALL BE PER DETAIL 1.2/C15
  3. ALL POTHOLING SHALL BE PER DETAIL 3/C14
  4. TACOMA WATER CREWS COMPLETE ALL WORK ON TACOMA WATER FACILITIES AT THE COST OF THE DEVELOPER. CONTRACTOR SHALL SCHEDULE THIS WORK.

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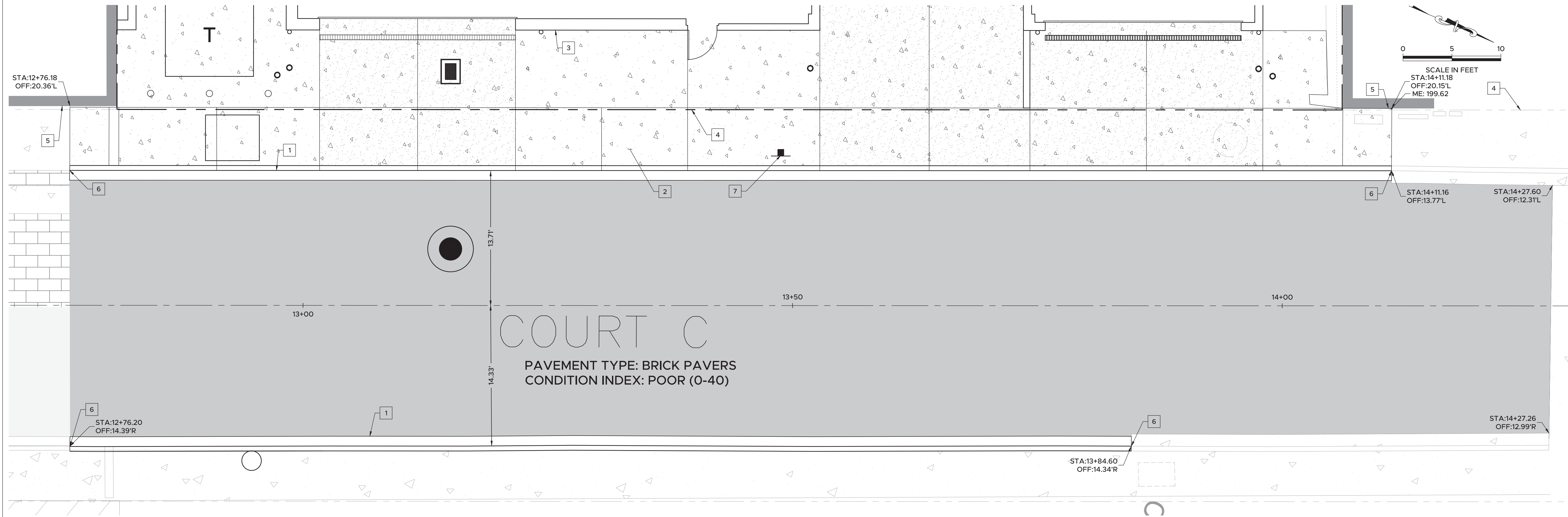
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DATE	DRAWN RCB	PROJECT NAME EPM01
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605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

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SHEET NO. C7  
SHEET 7 of 21



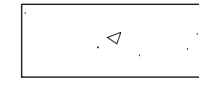
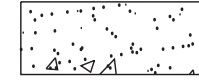

**NOTES**

1. SEE SHEET C10 FOR ROADWAY STATIONING CONTROL
2. SEE SHEET C7 FOR UTILITY PLANS
3. SEE SHEET C6 FOR GRADING PLANS
4. ALL SIGNS SHALL BE INSTALLED PER DETAIL 1/C14

**KEY NOTES #**

1. PROPOSED CONCRETE CURB AND GUTTER PER DETAIL 1/C12
2. PROPOSED SIDEWALK PER DETAIL 4/C12 (TYP)
3. PROPOSED BUILDING FACE (TYP)
4. EXISTING PROPERTY BOUNDARY
5. EXISTING BUILDING FACE (TYP)
6. CONNECT PROPOSED CURB, GUTTER, AND SIDEWALK TO EXISTING. TAPER IN ALL DIRECTIONS TO MATCH EXISTING SIDEWALK AND ROADWAY GRADES AS WELL AS CURB HEIGHT AS NECESSARY TO PRECLUDE PONDING.
7. NO PARKING, TRUCK LOADING ONLY, 30 MINUTE LIMIT ANYTIME SIGN PER DETAIL 5/C11

**OFFSITE PAVEMENT SECTION NOTES**

-  PROPOSED PCC SIDEWALK PER DETAIL 4/C12
-  PROPOSED PCC DRIVEWAY PER DETAIL 2,3/C12
-  PROPOSED FULL DEPTH ACC PAVEMENT PER DETAILS 2,3,4/C13  
COURT C IS A COMMERCIAL ALLEY

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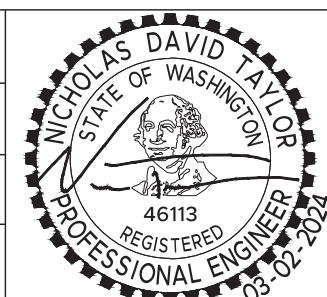
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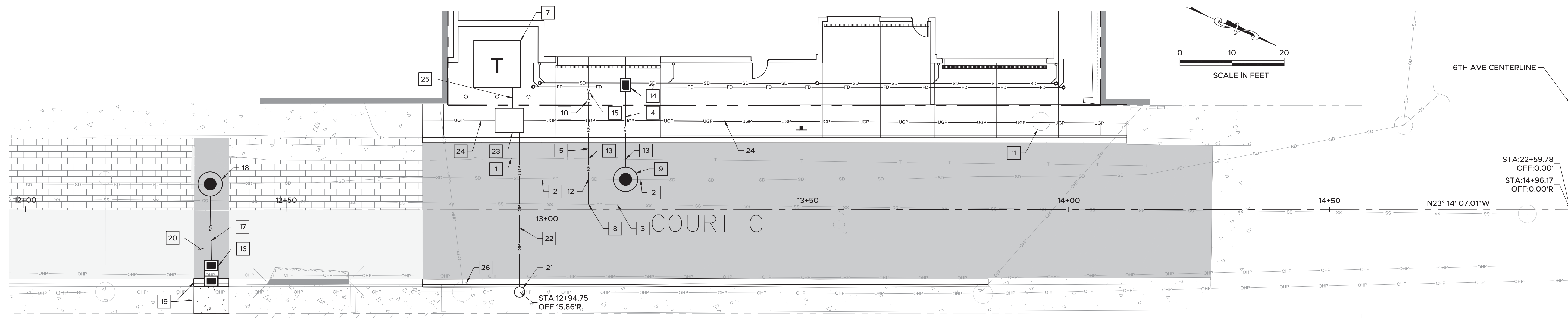
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CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		WO 22-0130
COURT C ROADWAY PLAN 605 & 613 ST. HELENS AVE TACOMA, WA 98402		
SITE & BUILDING DIVISION		SHEET NO. C8
		SHEET 8 OF 21

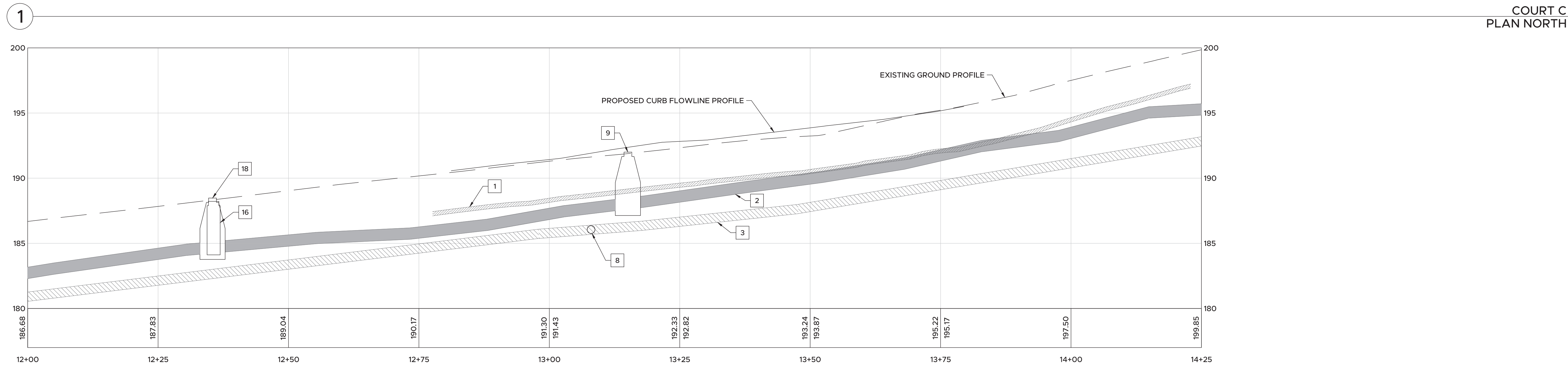


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OFF:0.00'  
STA:14+96.17  
OFF:0.00'R

COURT C  
PLAN NORTH



COURT C  
PROFILE NORTH

KEY NOTES #

1. EXISTING TELECOMMUNICATIONS CONDUIT. SEE UTILITY NOTES.
2. EXISTING 10" CLAY STORM MAIN AT VARYING GRADE
3. EXISTING 8" SEWER MAIN AT VARYING GRADE
4. PROPOSED 18 LF 12" SDR35 PVC STORM DRAIN AT 0.084 FT/FT. MEASUREMENT TAKEN FROM PROPOSED ONSITE CATCH BASIN.
5. PROPOSED 21 LF 6" SDR35 PVC SEWER LATERAL AT 0.134 FT/FT. MEASUREMENT TAKEN FROM CLEANOUT.
6. NOT USED
7. PROPOSED TRANSFORMER PER TACOMA POWER STANDARDS
8. PROPOSED CONNECTION TO EXISTING 8" SEWER MAIN PER DETAIL 1/C16  
STA: 13+07.97  
OFF: 0.95L  
IE: 185.76
9. PROPOSED 48" TYPE 1 MANHOLE WITH SOLID LOCKING LID PER DETAILS 4/C16 AND 4/C19  
STA: 13+15.07  
OFF: 5.76L  
RIM: 192.00  
10" IE IN (N): 187.84  
12" IE IN (W): 187.84  
10" IE OUT (S): 187.84
10. PROPOSED ONSITE SANITARY SEWER CLEANOUT PER DETAIL 2/C16  
STA: 13+07.98  
OFF: 20.82L  
RIM: 192.04  
6" IE IN/OUT: 188.58
11. CLEAN AND FILL EXISTING CONCRETE STRUCTURE WITH CONTROLLED DENSITY FILL.
12. INSTALL SAND CUSHION AT CROSSING  
STORM INVERT ELEVATION: 187.22  
SANITARY SEWER CROWN ELEVATION: 187.06
13. SEE UTILITY NOTES FOR GUIDANCE AT TELECOMMUNICATIONS CROSSING
14. PROPOSED ONSITE CATCH BASIN PER SDEV PLANS  
STA: 13+15.10  
OFF: 23.90L  
RIM: 192.43  
12 IE OUT (E): 189.36
15. PROPOSED ONSITE BACKWATER VALVE. SEE SDEV PLANS.
16. PROPOSED PERKFILTER CATCH BASIN WITH TWO 18" CARTRIDGES AND GRATE INLET PER DETAIL 3/C16. INSTALL INLET PROTECTION PER DETAIL 2/C11.  
STA: 12+35.66  
OFF: 10.80R  
RIM: 188.23  
12" IE OUT (SW): 184.45
17. PROPOSED 16 LF 12" SDR35 PVC AT 0.011 FT/FT
18. PROPOSED 48" TYPE 1 MANHOLE WITH SOLID LOCKING LID PER DETAILS 4/C16 AND 4/C19  
STA: 12+35.45  
OFF: 4.83L  
RIM: 188.48  
10" IE IN (NW): 184.27  
12" IE IN (NE): 184.27  
10" IE OUT (SE): 184.27
19. REPLACE CONCRETE CURB, GUTTER, AND SIDEWALK PER DETAILS 1,4/C12
20. RESTORE PAVEMENT PER DETAILS 1,2,3,4/C13
21. PROPOSED UTILITY POLE PER TACOMA POWER STANDARDS
22. PROPOSED (2) 4" SCH80 PVC CONDUITS INSTALLED PER TACOMA POWER STANDARDS
23. PROPOSED 554 VAULT PER TACOMA POWER STANDARDS
24. PROPOSED (4) 4" SCH80 PVC CONDUITS INSTALLED PER TACOMA POWER STANDARDS. CAP ENDS.
25. PROPOSED 4" SCH80 PVC CONDUIT INSTALLED PER TACOMA POWER STANDARDS
26. EXISTING UTILITY POLE TO REMAIN (TYP)

UTILITY NOTES

1. ALL TRENCHING AND RESTORATION SHALL BE PER DETAIL 1,2/C15
2. ALL PIPE BEDDING AND BACKFILL SHALL BE PER DETAIL 1,2/C15
3. ALL POTHOLES SHALL BE PER DETAIL 3/C14
4. THE MATERIAL AND CONDITION OF THE EXISTING TELECOMMUNICATIONS CONDUIT IS UNKNOWN. AT CROSSING LOCATIONS WHERE PROPOSED UTILITIES CONFLICT WITH THE EXISTING TELECOMMUNICATIONS CONDUIT, PROVIDE AT LEAST ONE WEEK NOTICE TO ROBERT BAIR WITH LUMEN AT 253-831-2059 TO SCHEDULE AN INSPECTION FOR THE EXPOSED CONDUITS, AND CUT THE CONDUIT AT THE EDGES OF THE TRENCHES. ROBERT BAIR WILL ADVISE WHETHER TO VERTICALLY RELOCATE A PORTION OF THE CONDUIT WITH 45-DEGREE BENDS OR TO ABANDON THE CONDUIT IN PLACE.
5. CONTRACTOR SHALL COORDINATE WITH TACOMA PUBLIC UTILITIES FOR LOCATION OF A NEW POWER POLE AND 554 UTILITY VAULT. UNDERGROUND AND OVERHEAD POWER PLANS ARE PER TACOMA PUBLIC UTILITIES.
6. THE EXISTING PUBLIC WASTEWATER PIPE HAS BEEN REHABILITATED WITH CURED IN PLACE THERMOSETTING RESIN. THE EXTERIOR HOST PIPE SHALL BE REMOVED FROM THE FULL CIRCUMFERENCE OF THE LINER PIPE AND THE CONNECTION SHALL BE MADE DIRECTLY TO THE LINER IN ACCORDANCE WITH CITY OF TACOMA STANDARD PLAN SU-23. THE CONTRACTOR SHALL REPAIR THE BEDDING FOR THE PUBLIC WASTEWATER MAIN IN ACCORDANCE WITH CITY OF TACOMA STANDARD PLAN SU-16.
7. STORM AND SIDE SEWER CONNECTION PERMIT ARE REQUIRED.
8. ALL DIMENSIONS ARE TO CENTER OF STRUCTURE OR RIM.
9. EDGE OF PERKFILTER GRATE SHALL BE AT GUTTER FLOW LINE.

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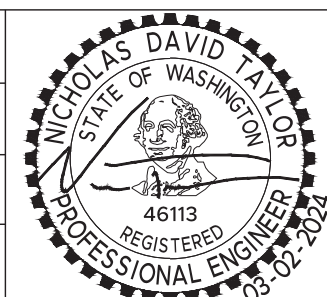
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civil engineers  
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**811**  
Know what's BELOW  
Call 811 before you dig.



NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
COURT C UTILITY PLAN  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130

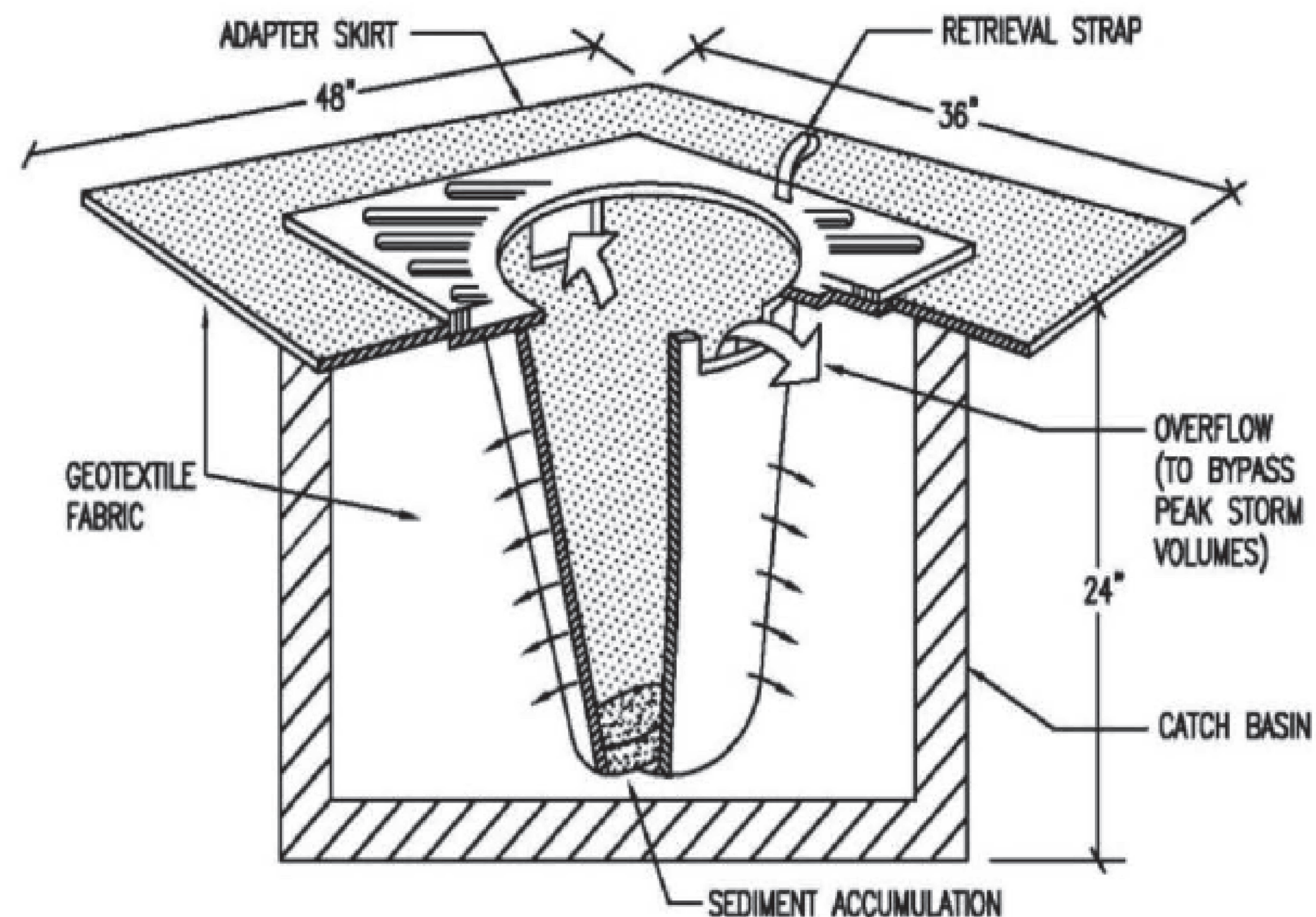
SHEET NO. C10  
SHEET 10 of 21

SIGN SHALL BE BLACK ON WHITE



4 NOT TO SCALE BACK-IN ANGLE PARKING SIGN DETAIL

5 NOT TO SCALE NO PARKING LOADING ZONE SIGN DETAIL



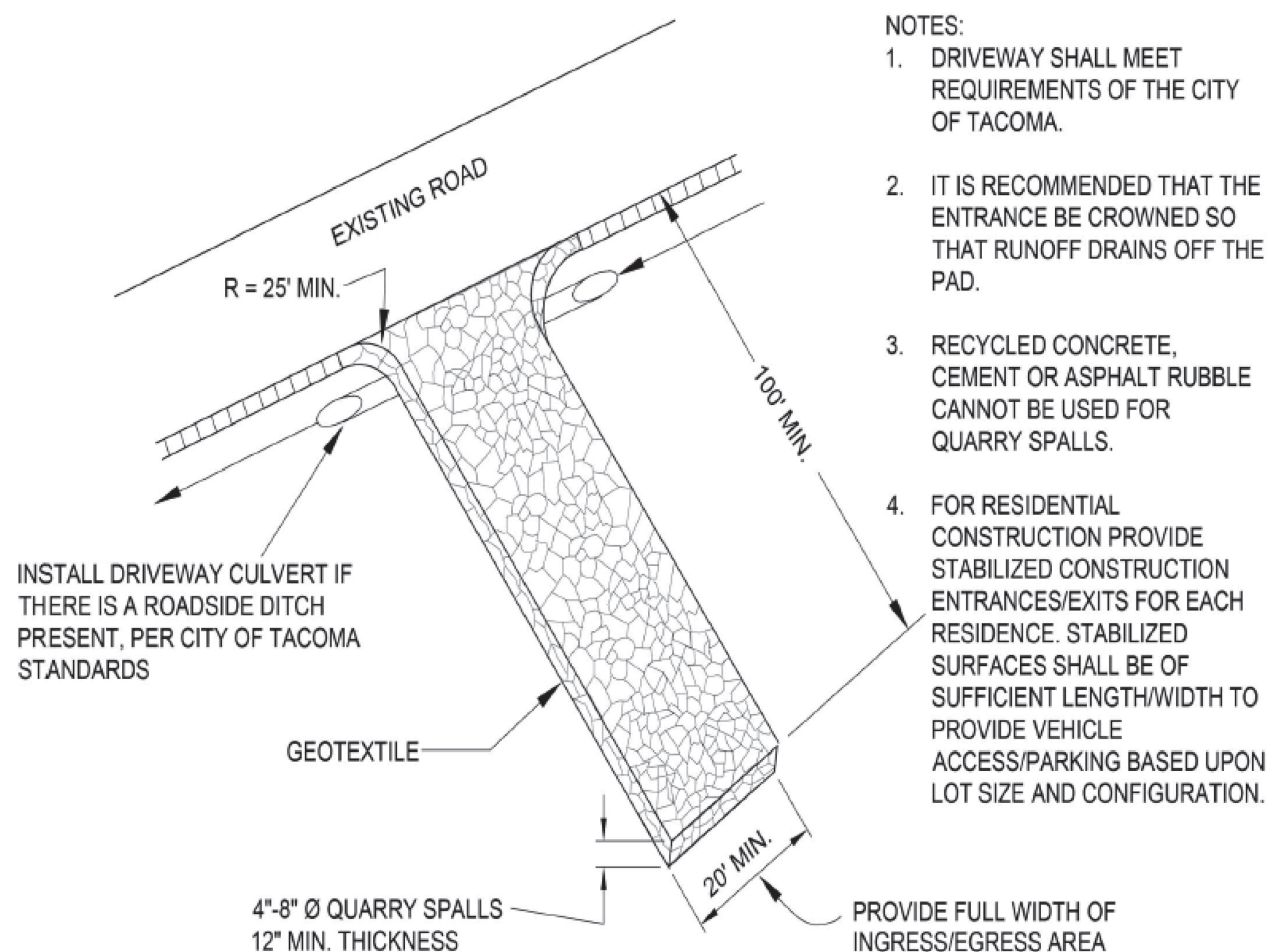
2 NOT TO SCALE INLET PROTECTION DETAIL

**NOTES**

- Stairways, handrails & guards shall comply with the most current version of the International Building Code (IBC) and associated amendments, except as allowed by the Tacoma Municipal Code Title 2 Chapter 2 Section 2.01.060
- For stairway guard and handrail details, refer to Standard Plan No. SU-11.
- The minimum thickness of the stairway shall be 6" as measured along the shortest line perpendicular to the slope of the stairs or the total required for coverage of steel reinforcement, whichever is greater. The stairway needs to be provided with the minimum steel, based on temperature & shrinkage as set forth in the ACI code. Clearances to the concrete surfaces from the reinforcement is spelled out in ACI 318-05 Section 7.7 as follows:
  - Concrete cast against and permanently exposed to earth: 3" clearance for reinforcing #6 through #18 Bars; 2" clearance for reinforcing #5 bar, W31 or D31 wire, and smaller; 1.5" clearance for reinforcing
  - Concrete exposed to earth or weather (formed): #6 through #18 Bars: 2" clearance for reinforcing #5 bar, W31 or D31 wire, and smaller; 1.5" clearance for reinforcing
  - Concrete not exposed to weather or in contact with the ground: Slabs, walls, joints: #14 & #18 bars: 1.5" clearance for reinforcing #11 bar and smaller: 0.75" clearance for reinforcing
- Concrete shall be a minimum compressive strength of 3,000 psi.
- According to ACI 318-05 7.12.2.2 - Shrinkage and temperature reinforcement shall be spaced not farther apart than five times the slab thickness, nor farther apart than 18".
- Slab reinforcing according to ACI 318-05 Section 7.12.2.1 shall provide the following ratios of reinforcement areas to gross concrete area, but not less than 0.0014:
  - Slabs where Grade 40 or 50 deformed bars are used - 0.0020
  - Slabs where Grade 60 deformed bars or welded wire reinforcement are used - 0.0018
  - Slabs where reinforcement with yield stress exceeding 60,000 psi measured at a yield strain of 0.35 percent is used 0.0018 X 60,000/ty
- Stair treads and risers shall be of uniform size and shape.
- Where the stairway has a straight run, the depth of the landing need not exceed 48 inches. (IBC 1011.6). Landings are required at the top and bottom of stairways.
- Where the bottom or top riser adjoins a sloping public way, walkway or driveway having an established grade and serving as a landing, the bottom or top riser is permitted to be reduced along the slope to less than 4 inches (102 mm) in height, with the variation in height of the bottom or top riser not to exceed one unit vertical in 12 units horizontal (8% slope) of stairway width.

<b>RVDR</b>	REVIEWED BY	<b>APPROVED FOR PUBLICATION</b>	CITY OF TACOMA
PUBLIC WORKS	ENVIRONMENTAL SERVICES	<i>Kurtis Kinsler</i>	CEMENT CONCRETE STAIRWAY
TACOMA POWER	TACOMA WATER	04/19/2021	STANDARD PLAN NO. SU-10
		CITY ENGINEER	DATE

3 NOT TO SCALE DETAIL



1 NOT TO SCALE CONSTRUCTION ENTRANCE DETAIL

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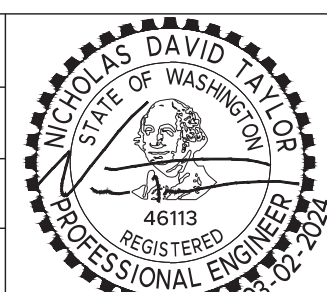


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NO	REVISION	DATE	APPD
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FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
DESIGNED NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	

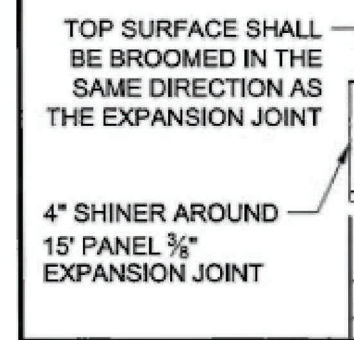
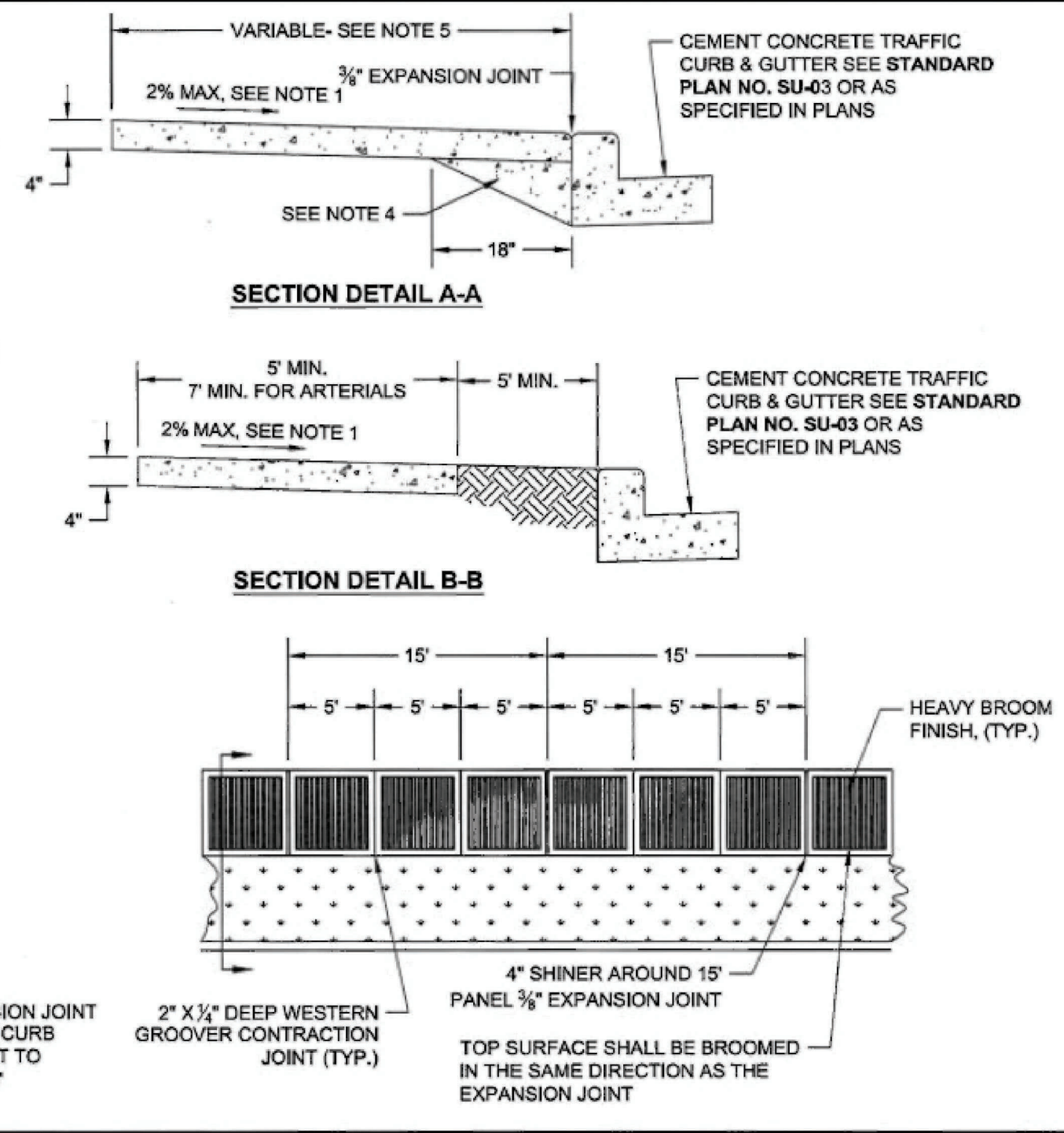


CITY OF TACOMA		WO 22-0130
DEPARTMENT OF PUBLIC WORKS		
DETAILS 1		
605 & 613 ST. HELENS AVE		
TACOMA, WA 98402		
SHEET NO.	C11	
SHEET	11 of 21	

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NOTES:

- Sidewalks shall be designed and constructed in accordance with 2010 ADA Standards, 28 CFR, Part 35 and as supplemented by the Public Right of Way Accessibility Guidelines (PROWAG), City of Tacoma prefers sidewalk cross slopes to be designed to a maximum of 1.5% and a minimum of 1.0%
- When placing walk adjacent to existing curb and gutter, curb and gutter will be repaired as necessary before placing concrete forms for walk.
- Staking is required where no curb is present.
- Thickened edge shall be constructed using cement concrete on all radii. All other locations shall be backfilled and compacted.
- Combination walk shall be 7' min. on all commercial sites and arterial streets. Combination walk shall be a minimum of 5' on non arterial streets. Dimensions are from back of curb to back of walk. See contract plans for width and placement of sidewalk.
- All expansion joints shall be full depth with 3/8" premolded joint filler.
- All joints shall be cleaned and edged. External edges shall be 1/2" radius. Internal joints shall be 1/4" radius.
- All soft and yielding foundation material shall be removed and replaced with crushed surfacing top course (CSTC) per Section 9-03.9(3) of the WSDOT Standard Specifications.
- All sidewalk shall be replaced to the nearest expansion or contraction joint. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
- For sidewalks within the North Slope Historical District area use Standard Plan HD-NS03. See Standard Plan HD-NS01 for North Slope Historic District site map.



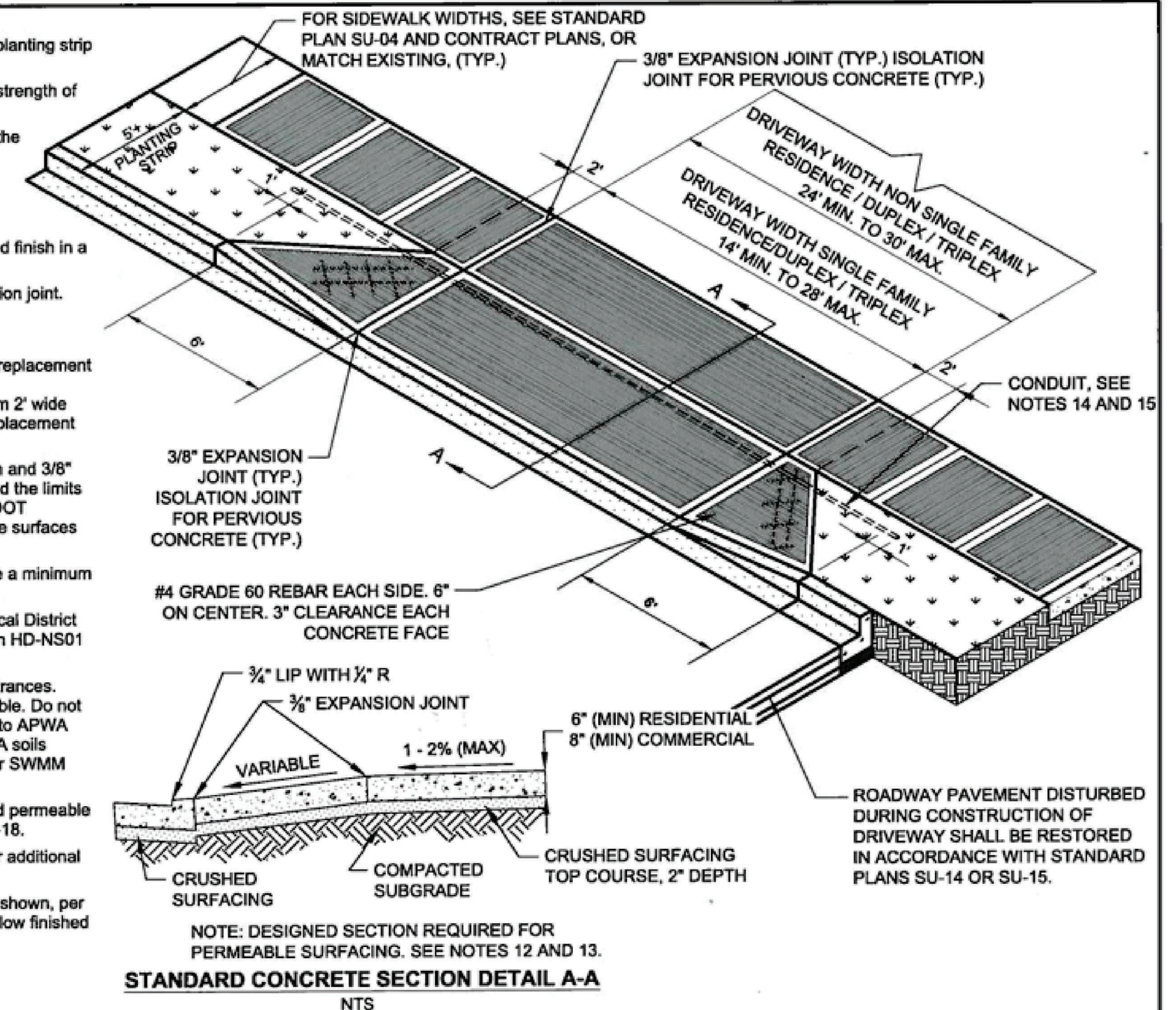
REVIEWED BY DCS PUBLIC WORKS N/A TACOMA POWER	ENVIRONMENTAL SERVICES N/A TACOMA WATER	APPROVED FOR PUBLICATION  CITY ENGINEER 4/25/19 DATE	CITY OF TACOMA CEMENT CONCRETE SIDEWALK STANDARD PLAN NO. SU-04
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4 NOT TO SCALE

DETAIL

NOTES:

- Type 1 access shall be used at driveways where the planting strip width is 5' or greater.
- Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
- All joints shall be cleaned & edged. External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
- Driveways wider or narrower than shown on this plan require approval of the Director of Public Works.
- Standard concrete driveway section shall be a brushed finish in a transverse direction to the center line of driveway.
- Driveways wider than 20' require a center line expansion joint.
- All expansion or isolation joints shall be full depth.
- When trenching through a driveway access:
  - If driveway is 20' or less in width, a full driveway replacement is required.
  - If driveway is greater than 20' in width, a minimum 2' wide cut back over undisturbed soil is required and replacement shall extend to the nearest control joint.
- All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
- Transition panel from new access to sidewalk shall be a minimum of 5 feet.
- For driveway entrances within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.
- Permeable surfacing may be allowed for driveway entrances. Refer to Standard Plans PD-01 and PD-02 as applicable. Do not compact subgrade for permeable surfacing and refer to APWA GSP 2-05.3(3) Subgrade for Permeable Pavements. A soils report is required and modeling may be necessary per SWMM BMP L633.
- Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
- Refer to Tacoma Municipal Code 10.14, driveways for additional information.
- A 1-1/4" x 1/4" PVC Sch. 80 Conduit shall be installed as shown, per TMC 10.14.070. Conduit shall be buried 24 inches below finished grade.



REVIEWED BY DCS PUBLIC WORKS N/A TACOMA POWER	ENVIRONMENTAL SERVICES N/A TACOMA WATER	APPROVED FOR PUBLICATION  CITY ENGINEER 4/4/19 DATE	CITY OF TACOMA CEMENT CONCRETE ACCESS TYPE 1 STANDARD PLAN NO. SU-07
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2 NOT TO SCALE

DETAIL

NOTES:

- Use the following as a guide of when each Entrance or Access Type should be used:
  - Cement Concrete Driveway Entrances Type 1 (Entrances) or Accesses Type 1 (Accesses) shall be used at driveways where the planting strip width is 5' or greater.
  - Cement Concrete Driveway Entrances Type 2 (Entrances) or Access Type 2 (Accesses) shall be used at driveways and alleys where the planting strip is less than 5' wide.
  - Cement Concrete Driveway Entrance Type 3 (Entrances) or Accesses Type 3 (Accesses) shall be used at alleys where the planting strip is 5' wide or greater.
- Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
- Concrete Joints:
  - All joints shall be cleaned & edged.
  - All expansion or isolation joints shall be full depth.
  - External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
  - All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
- Entrances and Accesses wider or narrower than shown on this plan require approval of the Director of Public Works.
- Entrances and Accesses shall have a brushed finish in a transverse direction to the center line of Entrance or Access.
- Entrances or Accesses wider than 20' require a center line expansion joint.
- When trenching through an Entrance or Access:
  - If Entrance or Access is 20' or less in width, full replacement is required.
  - If Entrance or Access is greater than 20' in width, a minimum 2' wide cut back over undisturbed soil is required and replacement shall extend to the nearest control joint.
- Transition panel from new Entrance or Access to sidewalk shall be a minimum of 5 feet.
- For Entrances or Accesses within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.
- Permeable surfacing may be allowed for Entrances or Accesses. Refer to Standard Plans PD-01 and PD-02 as applicable. Do not compact subgrade for permeable surfacing and refer to APWA GSP 2-05.3(3) Subgrade for Permeable Pavements. A soils report is required and modeling may be necessary per SWMM BMP L633.
- Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
- Refer to Tacoma Municipal Code 10.14, driveways for additional information.
- A 2" x 2" PVC Sch. 80 Pipe with capped ends shall be installed as shown, per TMC 10.14.070. Pipe shall be buried 24 inches below finished grade and have a pull string and location wire per WSDOT 9-29.3(2)A4.
- Detectable Warning Surface shall be placed at alleys if the ADT is greater than 700, in the downtown area, located near a high pedestrian volume area, or where there are sight distance concerns. The detectable warning pattern, if needed, shall be placed the full width of the sidewalk in accordance with City of Tacoma Standard Plan SU-05A.
- When an existing entrance or access does not meet current ADA standards as defined by the City of Tacoma's Design Manual, the entire entrance or access shall be replaced to current ADA standards.

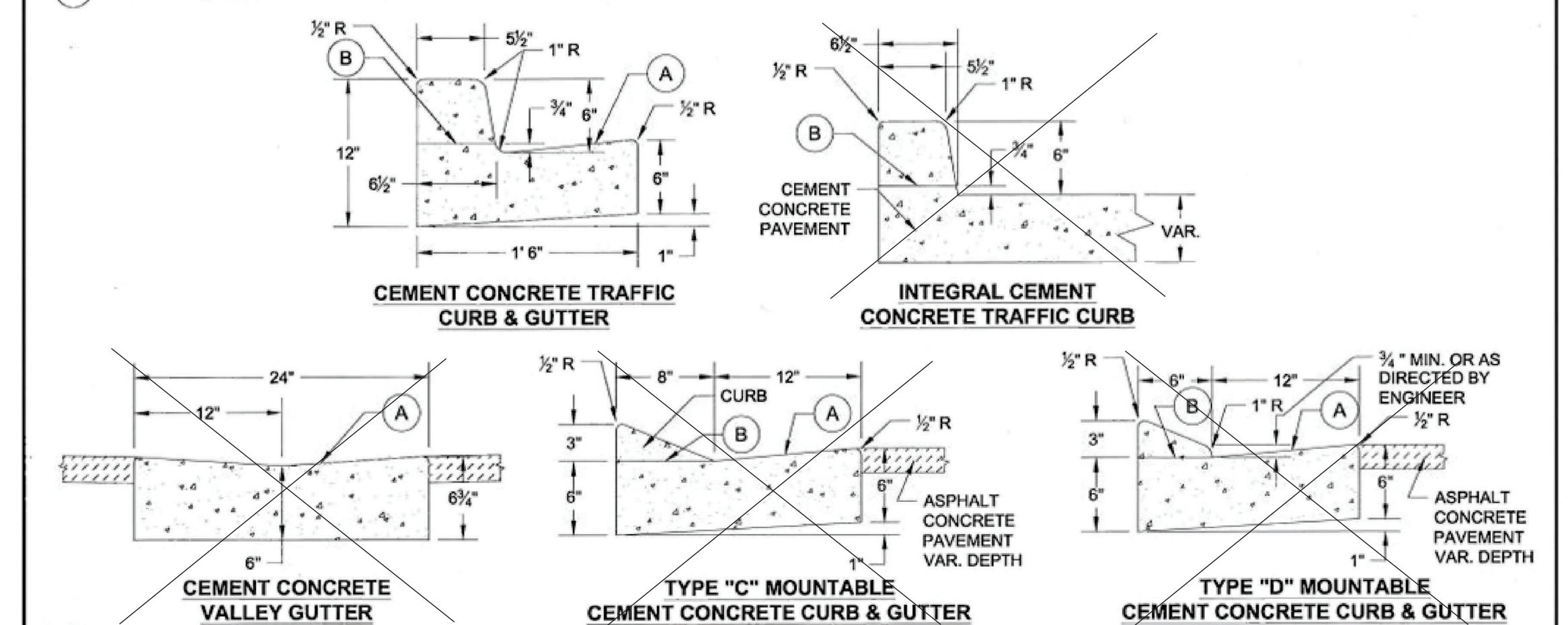
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3 NOT TO SCALE

DETAIL

NOTES:

- When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The height of the curb shall be 6", unless otherwise shown on plans.
- Flush with gutter pan at curb ramp entrance or 3/4" vertical lip at driveway entrance.



NOTES:

- For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil.
- In all projects, any remaining sections of curb and gutter less than 5' in length between the project area and the nearest control joint shall also be removed and replaced.
- All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed.
- Concrete finish shall match existing.
- Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
- Foundations shall be fully compacted prior to form placement.
- Unsuitable foundation shall be replaced with 3/8" crushed surfacing top course.

REVIEWED BY DCS PUBLIC WORKS N/A TACOMA POWER	ENVIRONMENTAL SERVICES N/A TACOMA WATER	APPROVED FOR PUBLICATION  CITY ENGINEER 8/16/16 DATE	CITY OF TACOMA CEMENT CONCRETE CURB AND GUTTER STANDARD PLAN NO. SU-03
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1 NOT TO SCALE

DETAIL

IRISGROUP civil engineers

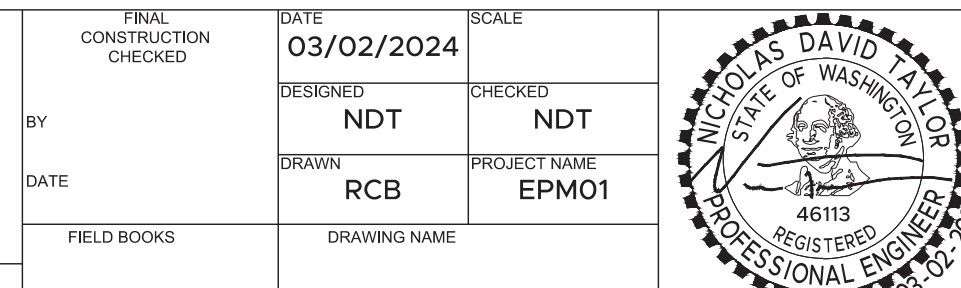
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811 Know what's BELOW Call 811 before you dig.



NO	REVISION	DATE	APPD
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FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
DETAILS 2  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130  
SHEET NO. C12  
SHEET 12 of 21

TYPE	Heavy Haul Industrial Corridors	Port Area Arterials	Non-classified Port-Area Roadways	Primary Transit Streets	Principal Arterials	Minor Arterials	Collector Arterials	Non-classified Arterials and Commercial Alleys	Residential	Residential Alleys	Shared Use Paths and Trails
Standard Asphalt Pavement Section	HMA CSTC CSBC	10 2 26	10 2 22	8 2 16	8 2 14	6 2 14	6 2 9	5 2 8	4 2 10	2 2 6	2 2 2
Minimum Asphalt Pavement Section with Approved Design	HMA CSTC CSBC	8 2 10	8 2 10	6 2 10	6 2 8	6 2 6	4 2 6	4 2 6	3 2 5	2 2 4	2 2 2
Minimum Concrete Pavement Section with Approved Design	PCC CSBC	10 2	10 2	10 2	10 2	10 2	8 2	8 2	8 2	8 2	4 2
Standard Porous Asphalt Pavement Section	HMA ATPB Permeable Base	NA	NA	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 6 (Note 7)	4 (Note 7) 4 4 (Note 7)	2 3 4 (Note 7)	0 0 0
Minimum Porous Asphalt Pavement Section with Approved Design	HMA ATPB Permeable Base	NA	NA	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 Note 6	Note 6 Note 6 6 (Note 7)	6 (Note 7) 6 (Note 7) 4 (Note 7)	2 3 4 (Note 7)	0 0 0
Minimum Previous Concrete Section	PCPC Permeable Base	NA	NA	Note 6 Note 6	Note 6 Note 6	Note 6 Note 6	Note 6 Note 6	Note 6 4 (Note 7)	8 4 (Note 7)	7 4 (Note 7)	2 4 (Note 7)

**NOTES:**

- Standard Pavement Section shall be used when no custom design is provided
- Minimum Pavement Sections are the minimum acceptable pavement sections for custom designs
- Refer to the City of Tacoma Design Manual for additional road design information.
- Pavement sections for other facilities, such as parking lots, shall be substantiated by geotechnical analyses and design documentation.
- Pavement design for State routes shall be determined by the Washington State Department of Transportation.
- Contact Public Works Engineering to discuss acceptability and requirements for specific projects. Design required if acceptable.
- Minimum Structural Values, Hydrological Properties may require a thicker base.
- Permeable pavement shall be designed or reviewed by a geotechnical professional. All custom designs shall be stamped by a Washington State Licensed professional engineer. Calculations showing the required permeable base thickness necessary for stormwater control is required for all permeable pavement projects. Refer to the City of Tacoma Stormwater Management Manual.

NA = Not Allowed

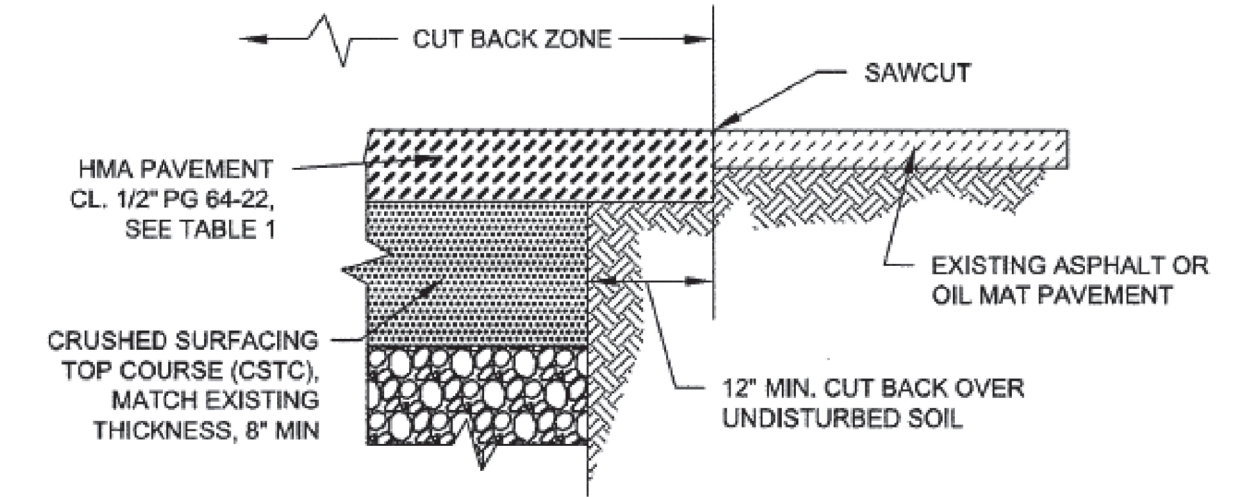
 REVIEWED BY PUBLIC WORKS NA TACOMA POWER	 ENVIRONMENTAL SERVICES NA TACOMA WATER	 APPROVED FOR PUBLICATION CITY ENGINEER DATE	CITY OF TACOMA PAVEMENT DESIGN STANDARDS SHEET 2 OF 2 PD-01 STANDARD PLAN NO.
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**NOTES**

- This Standard Plan shall only apply to streets that are exempt from the City of Tacoma's Restoration Policy. See Standard Plan SU-15A for any streets not exempt from this policy.
- Temporary Surface Restoration:  
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).  
Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
- All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
- Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
- The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
- Final compaction of HMA shall be 91% of maximum density. Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
- All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.
- HMA pavement shall not be placed over CDF until approved by the City.
- If remaining pavement adjacent to the patch is less than 3' wide, remove and replace with asphalt concrete pavement to match existing (minimum 2").

**TABLE 1  
PAVEMENT REPLACEMENT DEPTH  
IN CUT BACK ZONE**

	MIN.	MAX.
ARTERIALS, INDUSTRIAL AREAS & ROADS WITH BUS TRAFFIC	MATCH EXISTING +1", OR 4", WHICHEVER IS GREATER	6"
RESIDENTIALS AND ALLEYS	MATCH EXISTING +1", OR 3", WHICHEVER IS GREATER	4"



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	 APPROVED FOR PUBLICATION CITY ENGINEER DATE	TYPICAL PAVEMENT RESTORATION FOR ASPHALT CONCRETE/OIL MAT PAVEMENT STANDARD PLAN NO. SU-15B
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4 NOT TO SCALE

DETAIL

2 NOT TO SCALE

DETAIL

TYPE	Heavy Haul Industrial Corridors	Port Area Arterials	Non-classified Port-Area Roadways	Primary Transit Streets	Principal Arterials	Minor Arterials	Collector Arterials	Non-classified Arterials and Commercial Alleys	Residential	Residential Alleys	Shared Use Paths and Trails
Tacoma Municipal Code Ref.	11.05.020.C	13.10	13.10	11.05.492	11.05.490	11.05.490	11.05.490	11.05.490	2,000	500	100
Initial ADT	30,000	20,000	10,000	30,000	30,000	20,000	15,000	10,000	2,000	500	100
% ADT, Truck	30	30	30	8	8	8	5	5	5	5	1
% ADT, Bus	0	0	0	5	1	1	1	1	0	0	0
GROWTH RATE (compound)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Assumed CBR	1	1	1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Assumed Mr	2,555	2,555	2,555	6,690	6,690	6,690	6,690	6,690	6,690	6,690	6,690
Lanes in Design Direction	2	1	1	2	2	1	1	1	1	1	1
Percent Trucks, Design Direction	50	50	50	50	50	50	50	50	100	100	100
Percent Trucks, Design Lane	80	100	100	80	100	100	100	100	100	100	100
DESIGN EAL	26,367,106	21,972,588	10,986,294	8,430,756	5,878,017	4,898,348	2,445,675	1,364,540	994,831	49,365	4,087
Reliability, R%	95%	95%	90%	95%	95%	90%	85%	85%	80%	80%	80%
Deviation, S <sub>o</sub>	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Initial Serviceability, F <sub>i</sub>	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Terminal Serviceability, F <sub>t</sub>	2.5	2.5	2.4	3	3	2.7	2.5	2.4	2.3	2.2	2.2
Δ PSI	1.70	1.70	1.80	1.20	1.20	1.50	1.70	1.80	1.90	2.00	2.00
Design SN	8.19	8.12	6.89	5.89	5.6	4.81	4.18	3.58	3.41	2.03	1.3

Refer to PD-01 Sheet 2 for pavement design sections and notes.

 REVIEWED BY PUBLIC WORKS NA TACOMA POWER	 ENVIRONMENTAL SERVICES NA TACOMA WATER	 APPROVED FOR PUBLICATION CITY ENGINEER DATE	CITY OF TACOMA PAVEMENT DESIGN STANDARDS SHEET 1 OF 2 PD-01 STANDARD PLAN NO.
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3 NOT TO SCALE

DETAIL

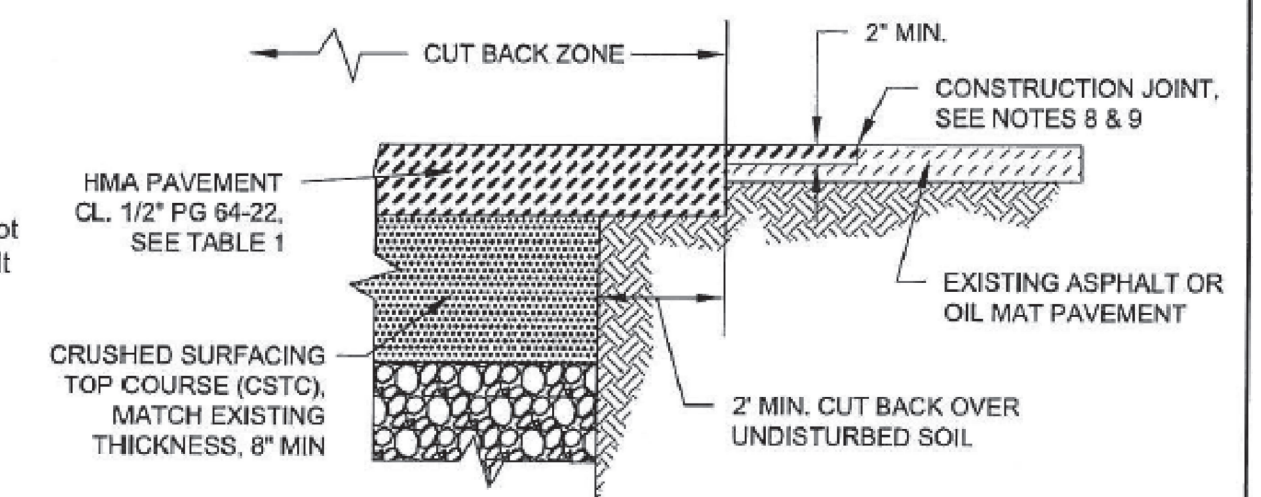
**NOTES**

- All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-15B for any streets exempt from this policy.
- Temporary Surface Restoration:  
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).  
Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
- All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
- Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
- The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.  
Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.  
Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.  
Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
- All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

- Longitudinal construction joints shall only be located at the center or edge of affected lanes.  
Streets and courts 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.  
Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three-lane streets upon prior approval from the City Engineer.
- Transverse construction joints terminate at the edge of the 2' cut back.
- HMA pavement shall not be placed over CDF until approved by the City.

**TABLE 1  
PAVEMENT REPLACEMENT DEPTH  
IN CUT BACK ZONE**

	MIN.	MAX.
ARTERIALS, INDUSTRIAL AREAS & ROADS WITH BUS TRAFFIC	MATCH EXISTING +1", OR 4", WHICHEVER IS GREATER	6"
RESIDENTIALS AND ALLEYS	MATCH EXISTING +1", OR 3", WHICHEVER IS GREATER	4"



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	 APPROVED FOR PUBLICATION CITY ENGINEER DATE	TYPICAL PAVEMENT RESTORATION FOR ASPHALT CONCRETE/OIL MAT PAVEMENT STANDARD PLAN NO. SU-15A
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1 NOT TO SCALE

DETAIL

COMPACTION TESTING REQUIREMENTS <sup>A</sup>		
DEPTH	TESTING FREQUENCY <sup>B</sup>	
	VERTICAL	HORIZONTAL
SURFACE (BELOW HMA)	N/A	1 TEST EVERY 150 LINEAR FEET OF TRENCH OR MINIMUM 2 PER TRENCH
1 TO 4 FEET (OR MIN 18 IN. ABOVE PIPE)	1 EVERY 12 INCHES	SAME AS FOR SURFACE
> 4 FEET TO BOTTOM OF TRENCH	NO SPECIFIC REQUIREMENT - MAY BE REQUIRED BY COT INSPECTOR FOR VERIFICATION OF COMPACTION	

A. TESTING SHALL BE PERFORMED BY A CERTIFIED INDEPENDENT TESTING LABORATORY OR A CERTIFIED TESTOR AS APPROVED BY THE CITY'S CONSTRUCTION DIVISION. THE COST OF TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. TESTS SHALL BE COMPLETED AND REPORTS IDENTIFYING THE PROJECT NUMBER SUBMITTED TO THE CONSTRUCTION DIVISION WITHIN 48 HOURS OF TESTS.

B. ONLY ONE COMPACTION TEST WILL BE REQUIRED FOR MULTIPLE TRENCHES WITHIN A 150 SF AREA PROVIDED COMPACTION PROCEDURES ARE THE SAME.

C. EACH LIFT SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS VERIFIED BY COMPACTION TESTING, BEFORE PROCEEDING TO THE NEXT LIFT. COT INSPECTOR MAY REQUIRE EXCAVATION AND REMOVAL OF SOIL WHERE COMPACTION IS IN QUESTION.

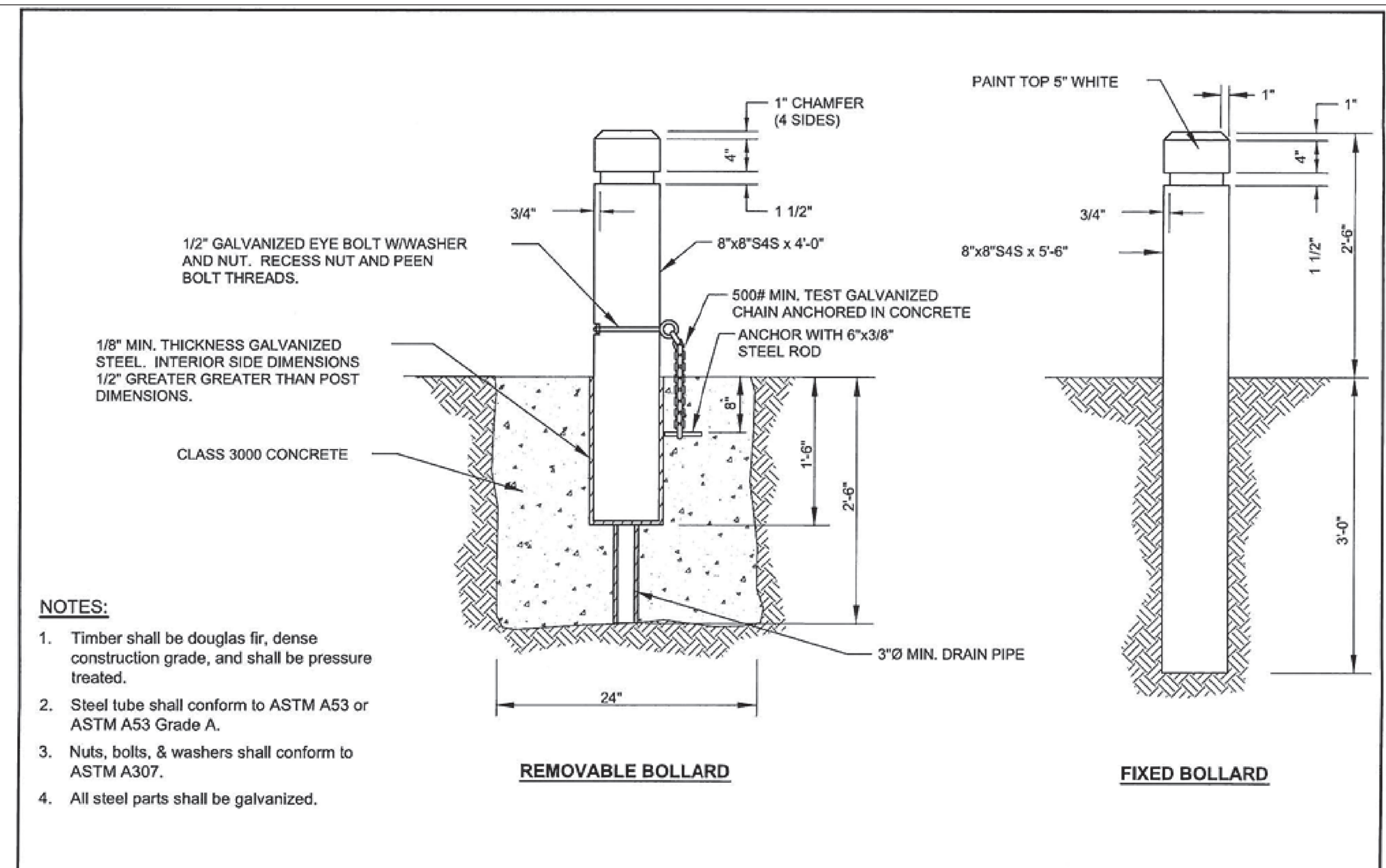
**NOTES:**

1. Compact backfill material in max. 12 in. lifts. Compact backfill material to 95% max. modified proctor density (ASTM 1557) except directly over pipe, hand tamp only.
2. Native backfill will require laboratory testing to determine max. modified proctor density. Imported backfill will require submittal of proctor test results from supplier.
3. See WSDOT Standard Specification Section 2-09.3(1)E for material requirements on "Controlled Density Fill" (CDF). CDF may be used for trenches less than 24 in. wide or as approved by the City Engineer. CDF shall be vibrated/compacted.

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	APPROVED FOR PUBLICATION	TRENCH BACKFILL COMPACTION REQUIREMENTS
	<i>[Signature]</i> CITY ENGINEER	11/20/16 DATE
		STANDARD PLAN NO. SU-28

4 NOT TO SCALE

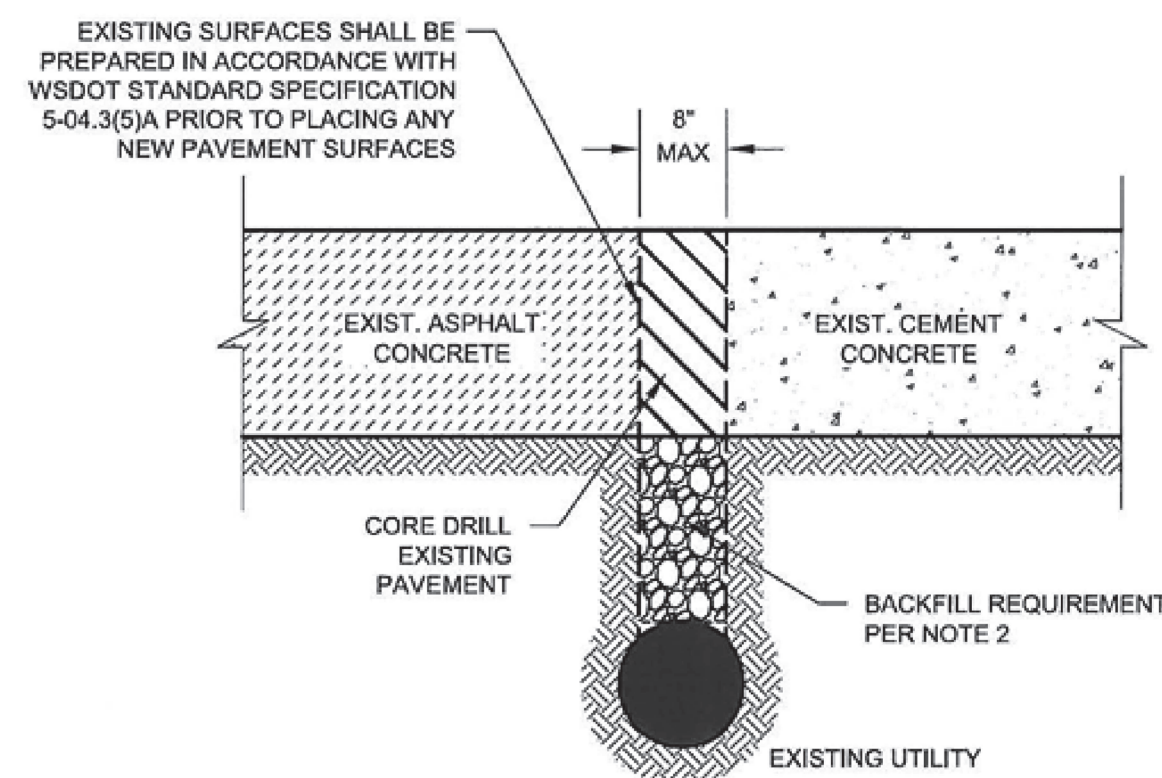
DETAIL



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	APPROVED FOR PUBLICATION	BOLLARD DETAILS
	<i>[Signature]</i> CITY ENGINEER	12 Jun 2009 DATE
		STANDARD PLAN NO. SU-12

2 NOT TO SCALE

DETAIL



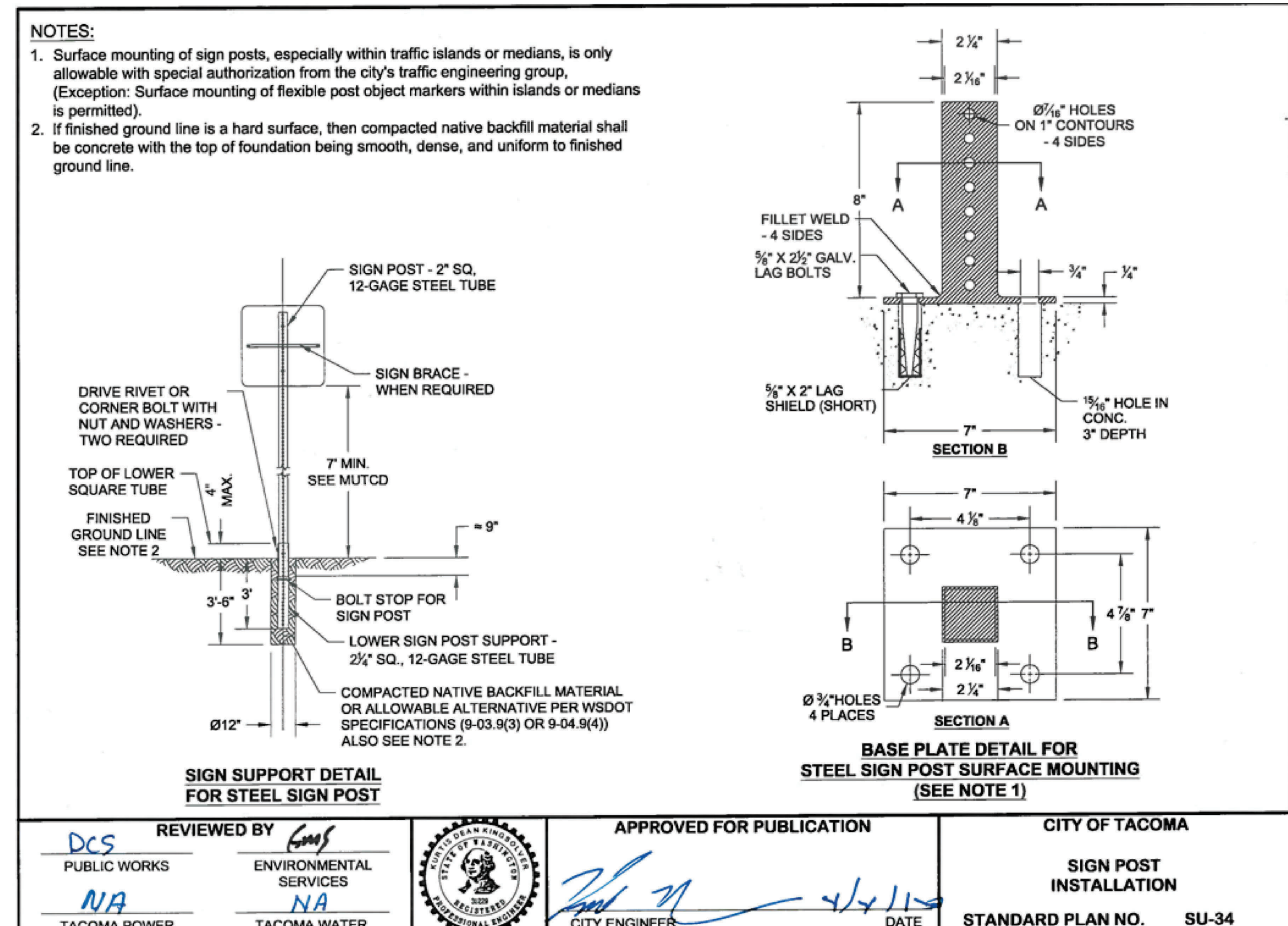
**NOTES:**

1. The existing pavement shall be cut full depth with an eight inch diameter core drill. The subbase material shall be removed using a vacuum excavator, keeping the excavation as minimal as possible.
2. Backfill the excavation with a six inch cushion of crushed rock over the utility then place the remaining void with CDF or compacted CSTC.
3. For asphalt concrete streets, repair the cored pavement section with HMA Class 1/2 PG 64-22 and seal the joint.
4. For cement concrete pavement streets, replace the cored section with Class 6000 cement concrete.
5. If excavation is larger than 8" core, restoration shall comply with the Right of Way Restoration Policy.

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	APPROVED FOR PUBLICATION	POTHOLING
	<i>[Signature]</i> CITY ENGINEER	12 Jun 2009 DATE
		STANDARD PLAN NO. SU-27

3 NOT TO SCALE

DETAIL



REVIEWED BY <i>[Signature]</i> PUBLIC WORKS	APPROVED FOR PUBLICATION	CITY OF TACOMA SIGN POST INSTALLATION
ENVIRONMENTAL SERVICES TACOMA WATER	<i>[Signature]</i> CITY ENGINEER	STANDARD PLAN NO. SU-34
TACOMA POWER	DATE	

1 NOT TO SCALE

DETAIL

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NO	REVISION	DATE	APPD
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FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	

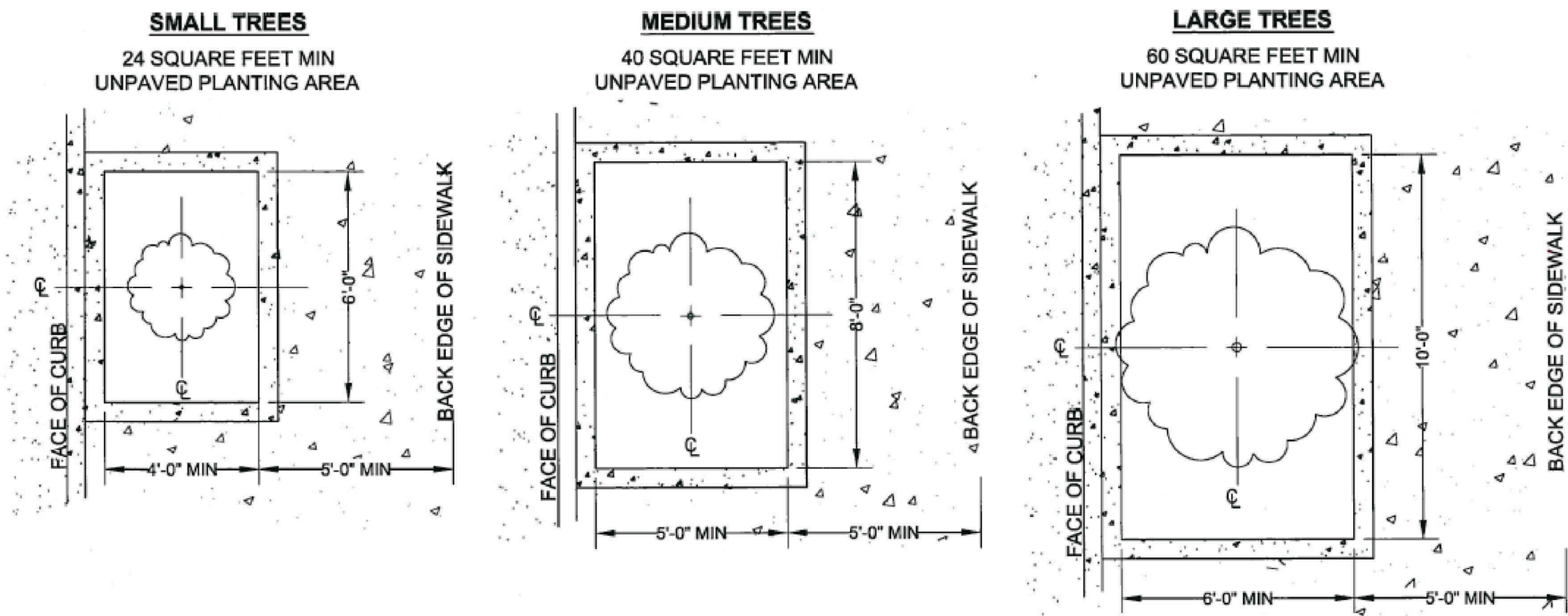
STATE OF WASHINGTON DAVID TAYLOR REGISTERED PROFESSIONAL ENGINEER 46113 03-02-2020
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CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS
--

DETAILS 4 605 & 613 ST. HELENS AVE TACOMA, WA 98402
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WO 22-0130
SHEET NO. C14
SHEET 14 of 21

**TREE SIZE:**  
Trees are categorized as small, medium or large based on the canopy factor, which takes into account the trees mature height, crown spread and growth rate. The following formula shall be used to determine the canopy factor:  
(MATURE HEIGHT IN FEET) X (MATURE WIDTH IN FEET) X (GROWTH RATE) X (0.01) = CANOPY FACTOR  
The growth rate number is 1 for slow growing trees, 2 for moderately growing trees and 3 for fast growing trees.  
Tree size categories are as follows:  
A. LARGE TREES = Canopy factor greater than 90  
B. MEDIUM TREES = Canopy factor from 40-90  
C. SMALL TREES = Canopy factor less than 40



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED FOR PUBLICATION  
CITY ENGINEER [Signature] DATE 7/6/15  
TREE WELL DIMENSION  
STANDARD PLAN NO. LS-03

DEPTH	COMPACTION TESTING REQUIREMENTS <sup>A</sup>	
	VERTICAL	HORIZONTAL
SURFACE (BELOW HMA)	N/A	1 TEST EVERY 150 LINEAR FEET OF TRENCH OR MINIMUM 2 PER TRENCH
1 TO 4 FEET (OR MIN 18 IN. ABOVE PIPE)	1 EVERY 12 INCHES	1 TEST FOR 150 SQUARE FEET FOR ISOLATED PATCHES <sup>B</sup>
> 4 FEET TO BOTTOM OF TRENCH	NO SPECIFIC REQUIREMENT - MAY BE REQUIRED BY COT INSPECTOR FOR VERIFICATION OF COMPACTION	

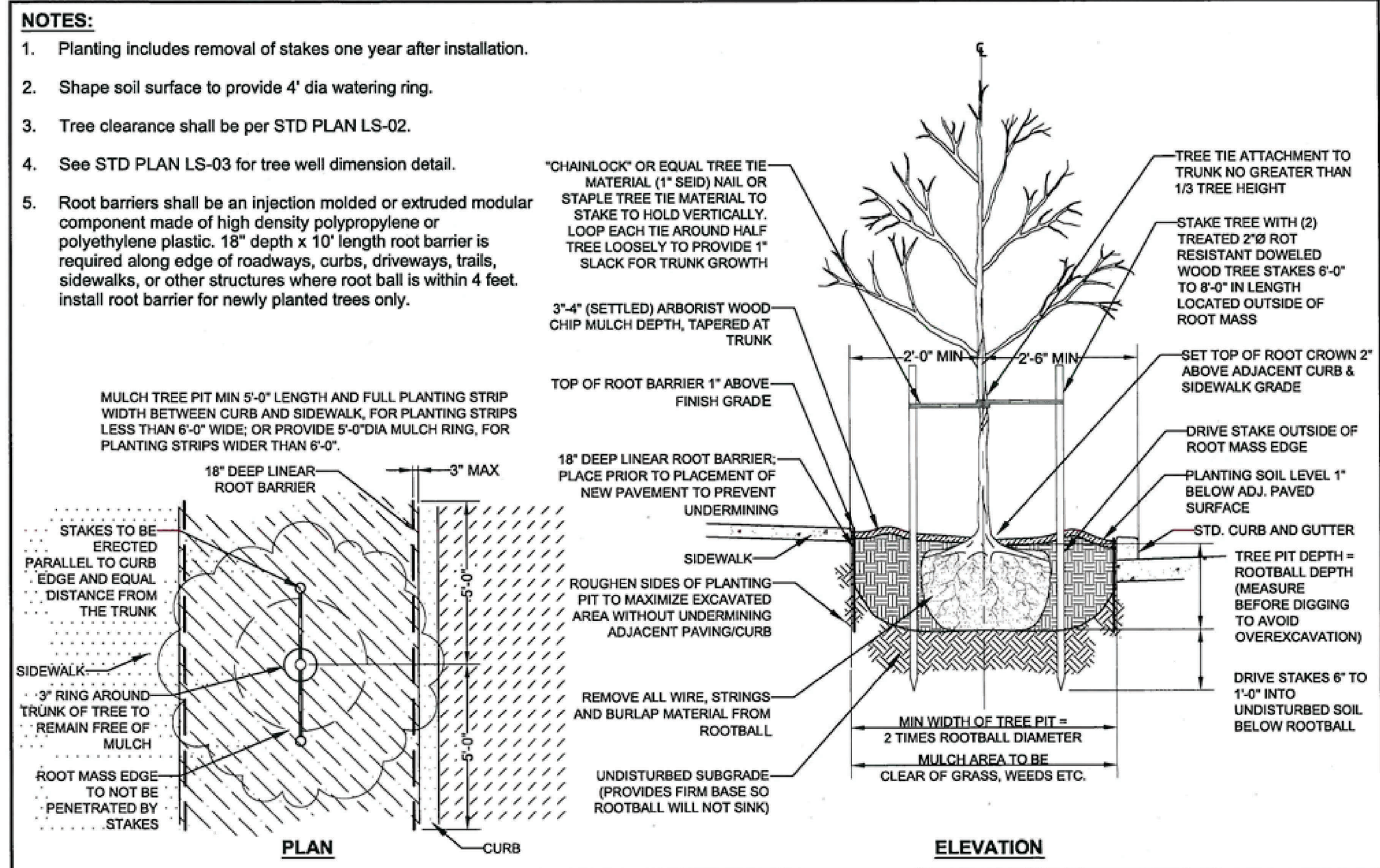
A. TESTING SHALL BE PERFORMED BY A CERTIFIED INDEPENDENT TESTING LABORATORY OR A CERTIFIED TESTOR AS APPROVED BY THE CITY'S CONSTRUCTION DIVISION. THE COST OF TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. TESTS SHALL BE COMPLETED AND REPORTS IDENTIFYING THE PROJECT NUMBER SUBMITTED TO THE CONSTRUCTION DIVISION WITHIN 48 HOURS OF TESTS.  
B. ONLY ONE COMPACTION TEST WILL BE REQUIRED FOR MULTIPLE TRENCHES WITHIN A 150 SF AREA PROVIDED COMPACTION PROCEDURES ARE THE SAME.  
C. EACH LIFT SHALL BE COMPACTIONED TO 95% MODIFIED PROCTOR DENSITY, AS VERIFIED BY COMPACTION TESTING. BEFORE PROCEEDING TO THE NEXT LIFT, COT INSPECTOR MAY REQUIRE EXCAVATION AND REMOVAL OF SOIL WHERE COMPACTION IS IN QUESTION.

**NOTES:**  
1. Compact backfill material in max. 12 in. lifts. Compact backfill material to 95% max. modified proctor density (ASTM 1557) except directly over pipe, hand tamp only.  
2. Native backfill will require laboratory testing to determine max. modified proctor density. Imported backfill will require submittal of proctor test results from supplier.  
3. See WSDOT Standard Specification Section 2-09.3(1)E for material requirements on "Controlled Density Fill" (CDF). CDF may be used for trenches less than 24 in. wide or as approved by the City Engineer. CDF shall be vibrated/compacted.

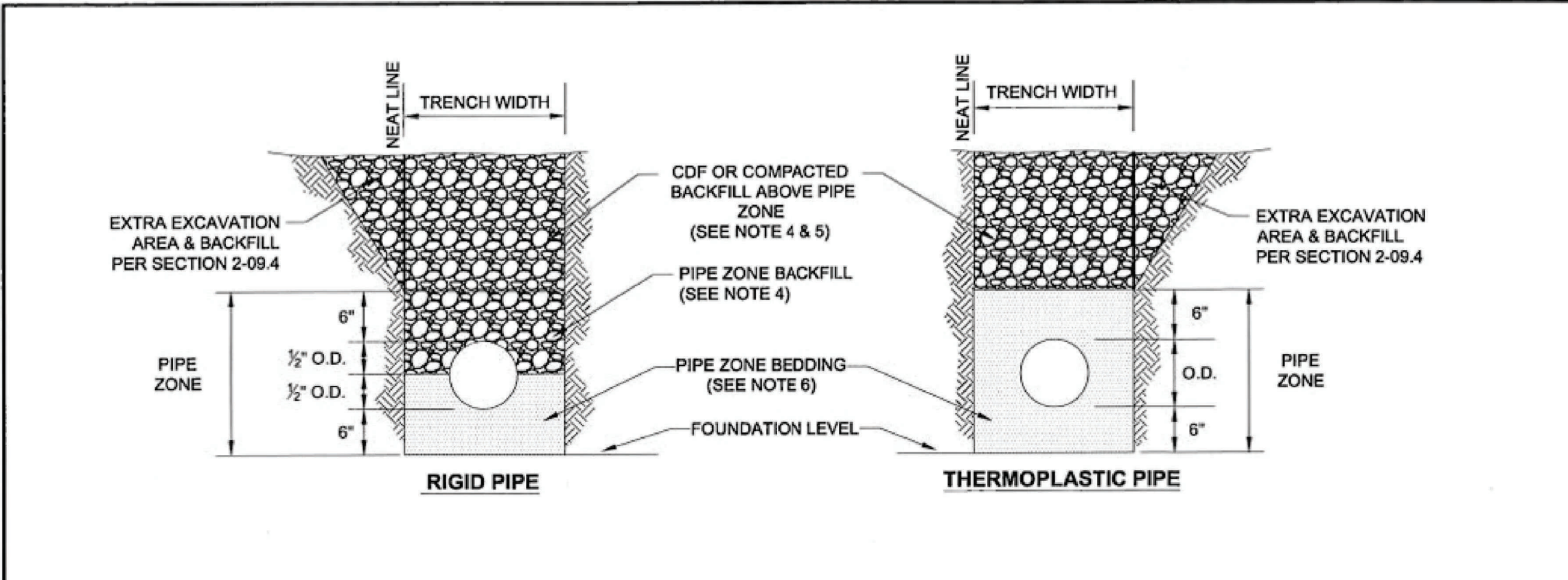
CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED FOR PUBLICATION  
CITY ENGINEER [Signature] DATE 11/3/16  
TRENCH BACKFILL COMPACTION REQUIREMENTS  
STANDARD PLAN NO. SU-28

4 NOT TO SCALE → DETAIL

2 NOT TO SCALE → DETAIL



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED FOR PUBLICATION  
CITY ENGINEER [Signature] DATE 7/6/15  
STREET TREE PLANTING  
STANDARD PLAN NO. LS-01



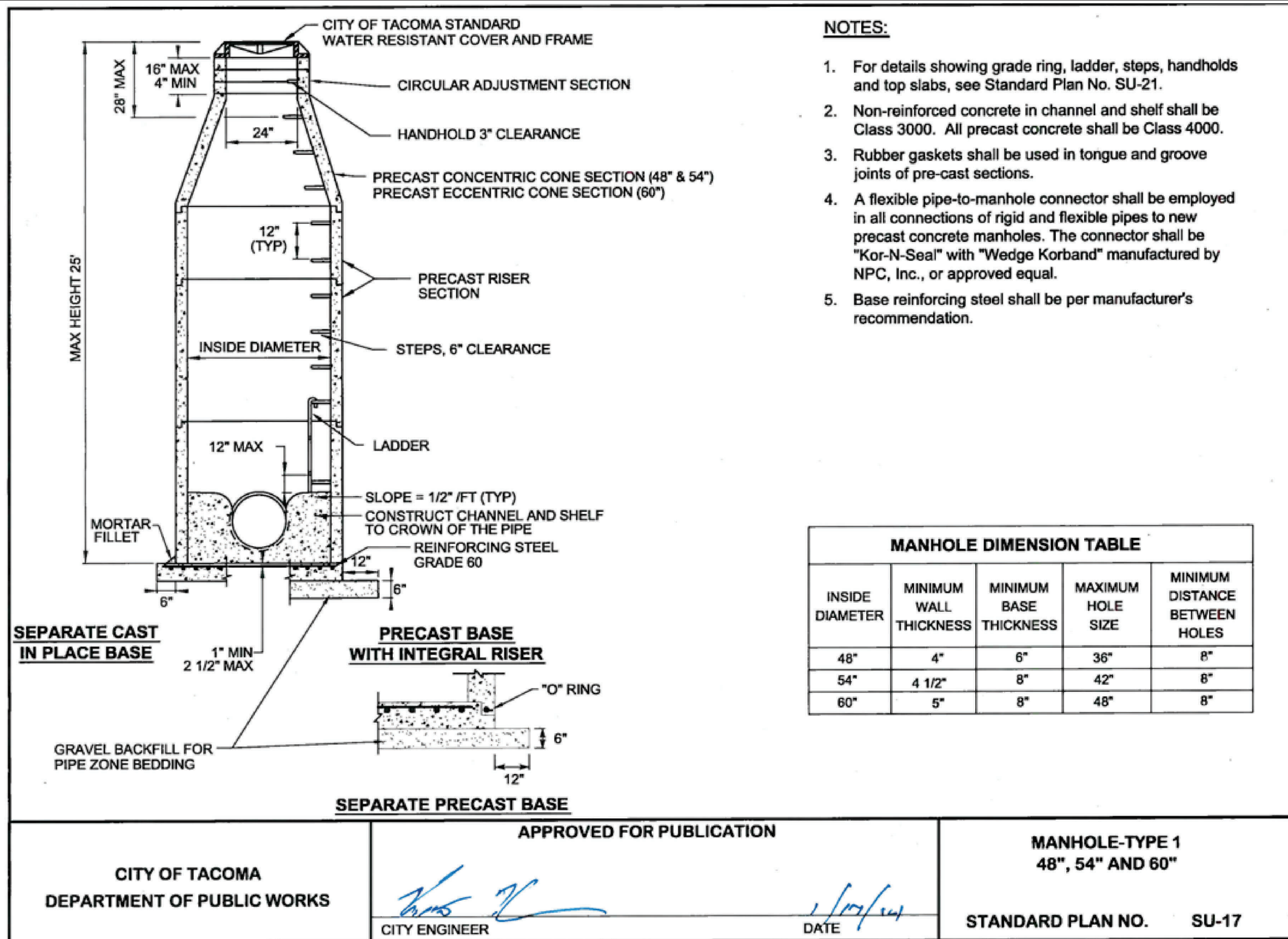
**NOTES:**  
1. Provide uniform support under barrel and provide pockets in bedding for pipe bells.  
2. Hand tamp under haunches.  
3. Trench width shall be as specified in Section 2-09.4 of the WSDOT Standard Specifications.  
4. Pipe zone backfill and backfill above pipe zone shall meet the material requirements of WSDOT Standard Specification Section 9-03.12(2) for gravel backfill for walls.  
5. All trenches shall be compacted in accordance with SU-28.  
6. Pipe zone bedding shall meet the material requirements of WSDOT Standard Specification Section 9-03.9(3) for crushed surfacing top course.

DCS PUBLIC WORKS TACOMA POWER  
REVIEWED BY GMS ENVIRONMENTAL SERVICES TACOMA WATER  
APPROVED FOR PUBLICATION  
CITY ENGINEER [Signature] DATE 8/16/16  
CITY OF TACOMA  
PIPE ZONE BEDDING AND BACKFILL FOR SANITARY AND STORM SEWERS  
STANDARD PLAN NO. SU-16

3 NOT TO SCALE → DETAIL

1 NOT TO SCALE → DETAIL

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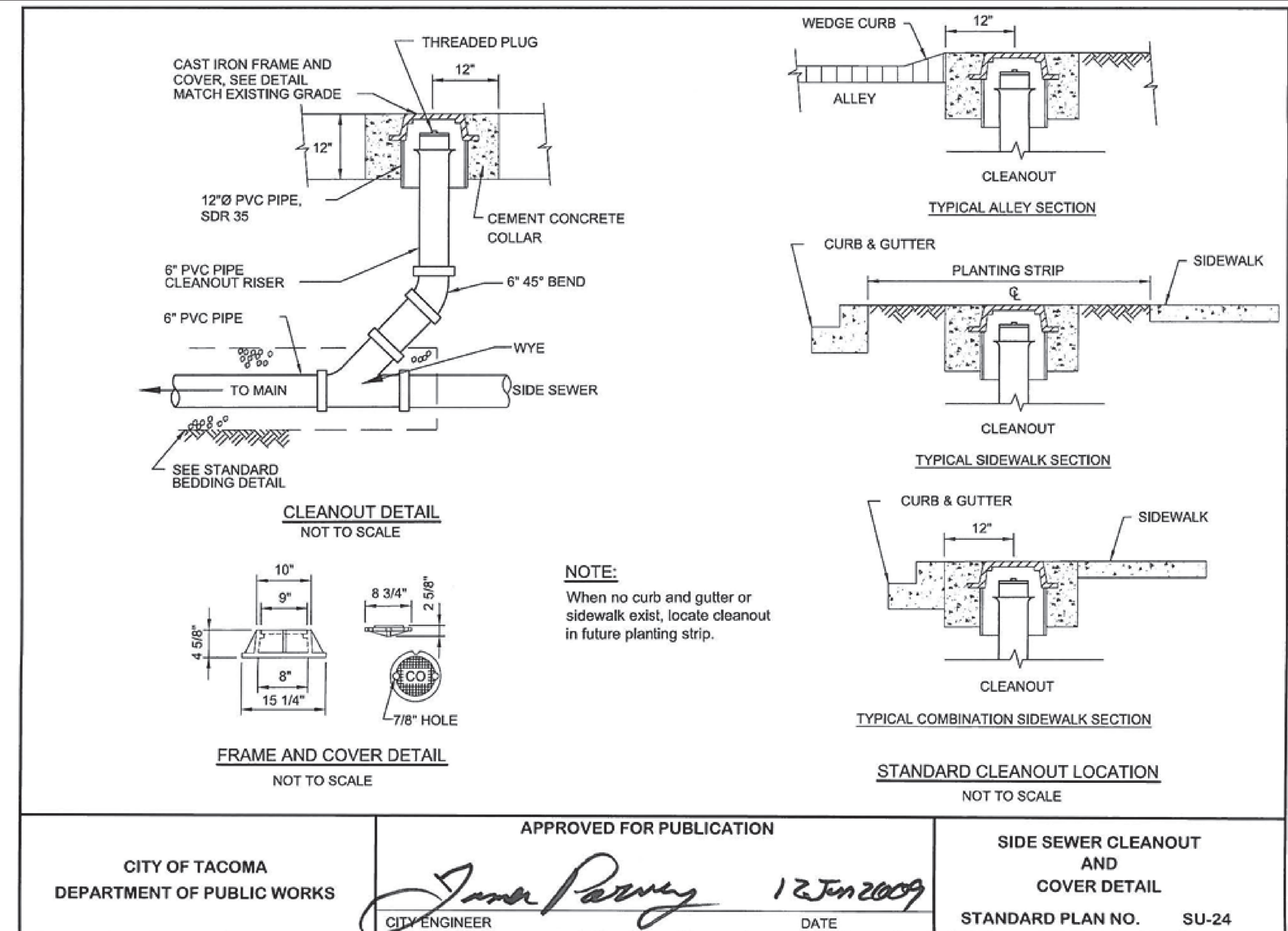


- NOTES:**
- For details showing grade ring, ladder, steps, handholds and top slabs, see Standard Plan No. SU-21.
  - Non-reinforced concrete in channel and shelf shall be Class 3000. All precast concrete shall be Class 4000.
  - Rubber gaskets shall be used in tongue and groove joints of pre-cast sections.
  - A flexible pipe-to-manhole connector shall be employed in all connections of rigid and flexible pipes to new precast concrete manholes. The connector shall be "Kor-N-Sea" with "Wedge Korband" manufactured by NPC, Inc., or approved equal.
  - Base reinforcing steel shall be per manufacturer's recommendation.

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS  
 APPROVED FOR PUBLICATION  
 CITY ENGINEER [Signature] DATE 1/10/14  
 MANHOLE-TYPE 1  
 48", 54" AND 60"  
 STANDARD PLAN NO. SU-17

4 NOT TO SCALE

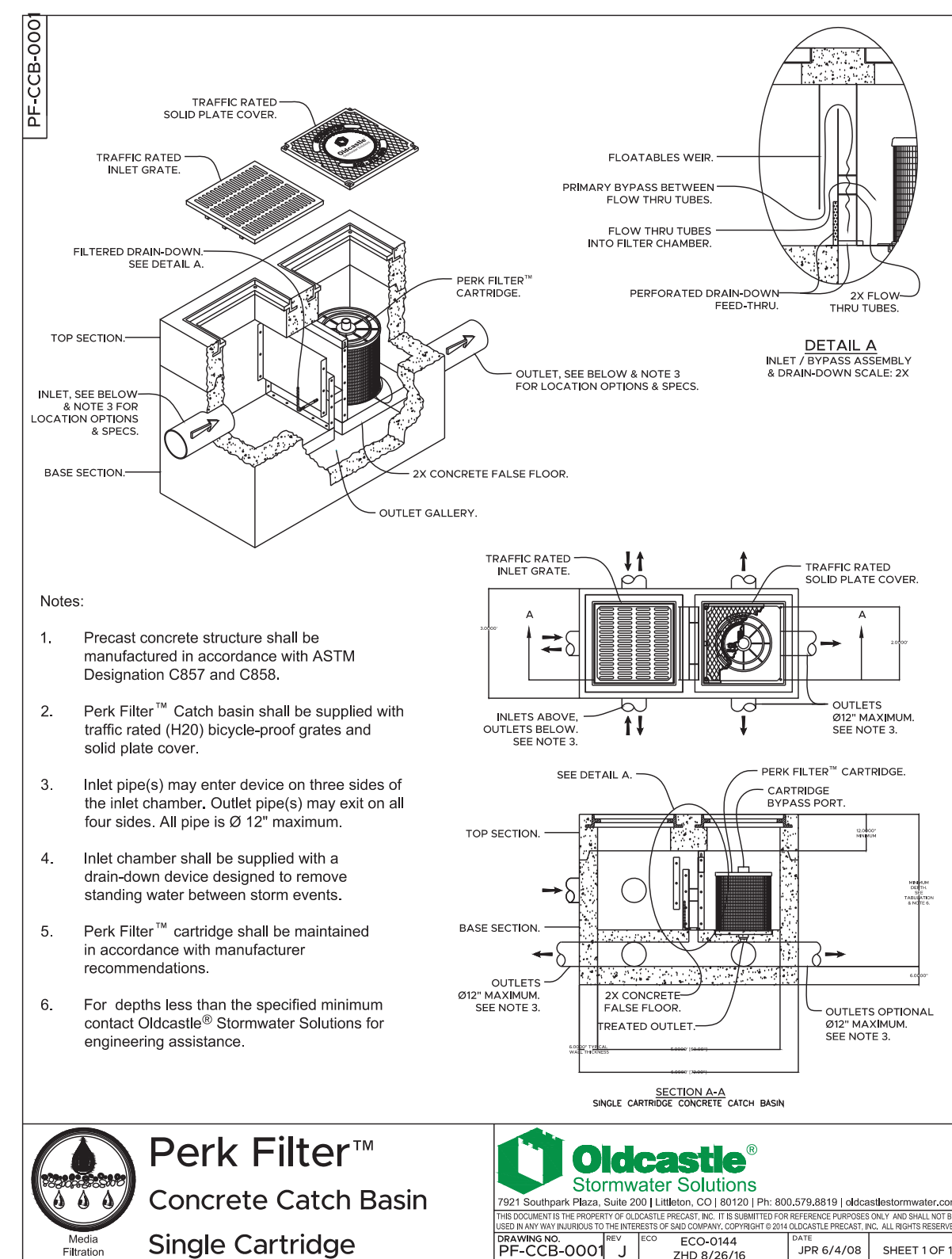
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CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS  
 APPROVED FOR PUBLICATION  
 CITY ENGINEER [Signature] DATE 12 Jun 2009  
 SIDE SEWER CLEANOUT AND COVER DETAIL  
 STANDARD PLAN NO. SU-24

2 NOT TO SCALE

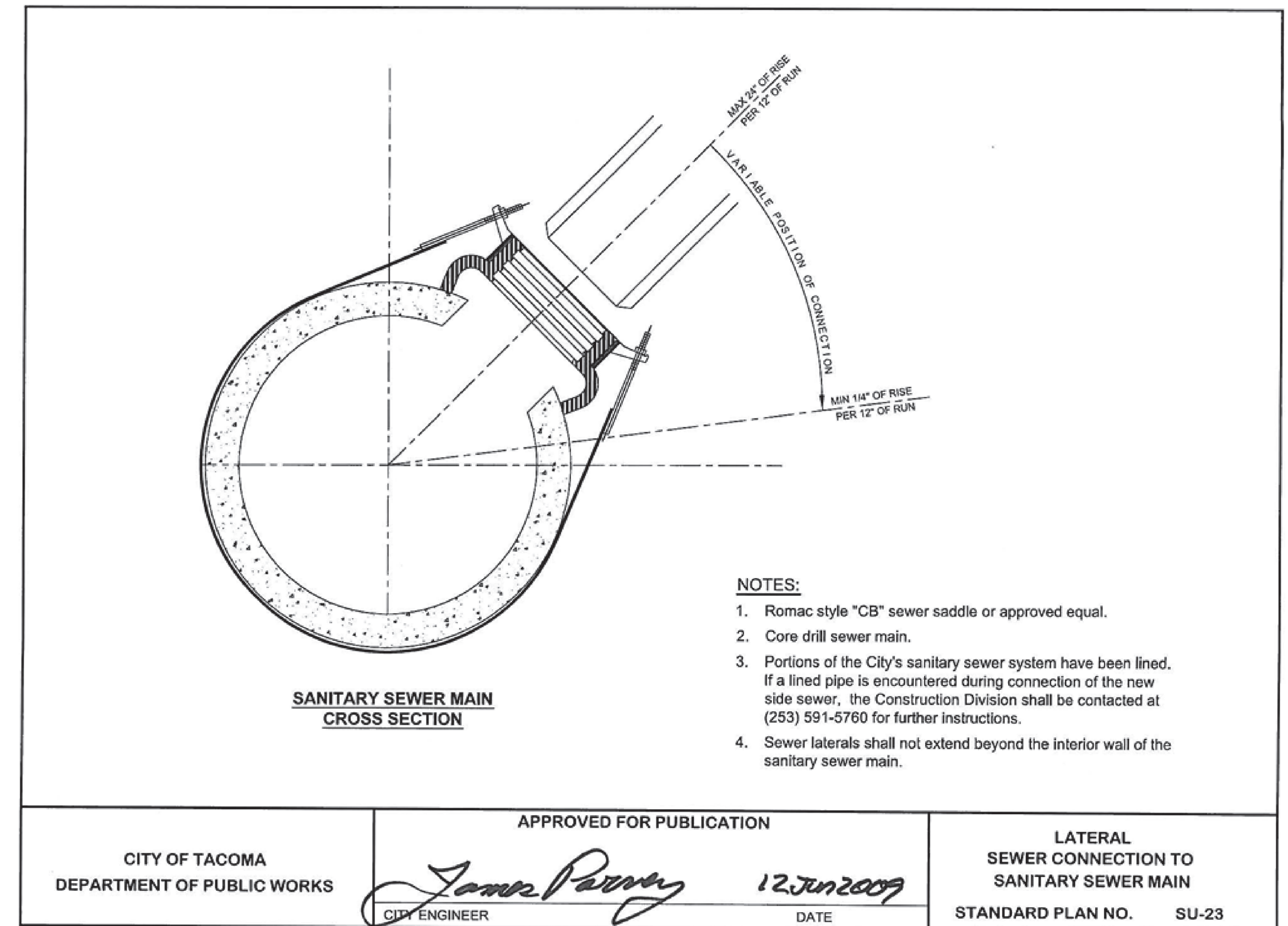
DETAIL



Perk Filter™ Concrete Catch Basin Single Cartridge  
 Oldcastle Stormwater Solutions  
 PERK FILTER™ CARTRIDGE  
 PERK FILTER™ CARTRIDGE BYPASS PORT  
 SECTION A-A SCALE: CARTRIDGE CONCRETE CATCH BASIN

3 NOT TO SCALE

PERKFILTER DETAIL



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS  
 APPROVED FOR PUBLICATION  
 CITY ENGINEER [Signature] DATE 12 Jun 2009  
 LATERAL SEWER CONNECTION TO SANITARY SEWER MAIN  
 STANDARD PLAN NO. SU-23

1 NOT TO SCALE

DETAIL

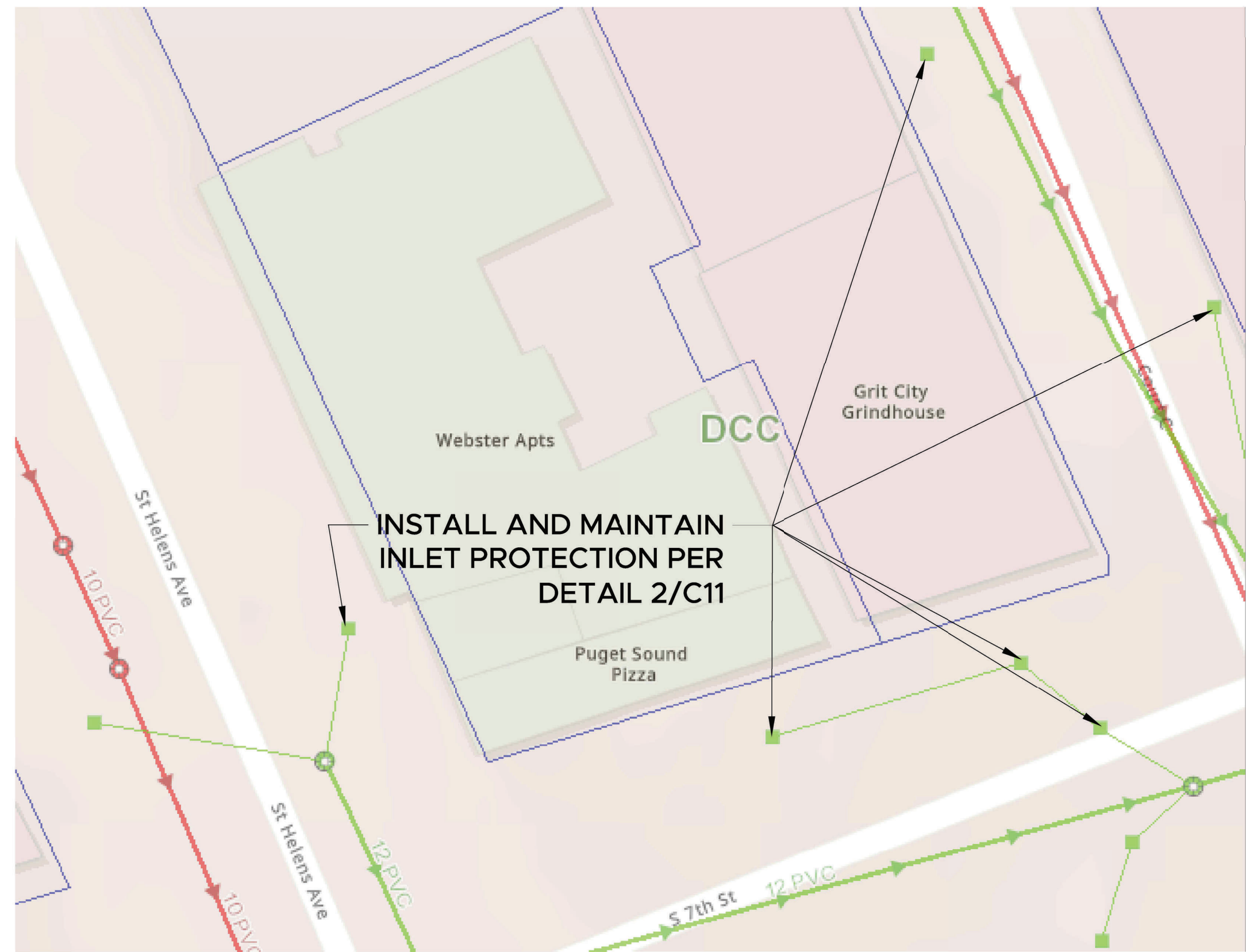
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NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	CHECKED NDT	
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	

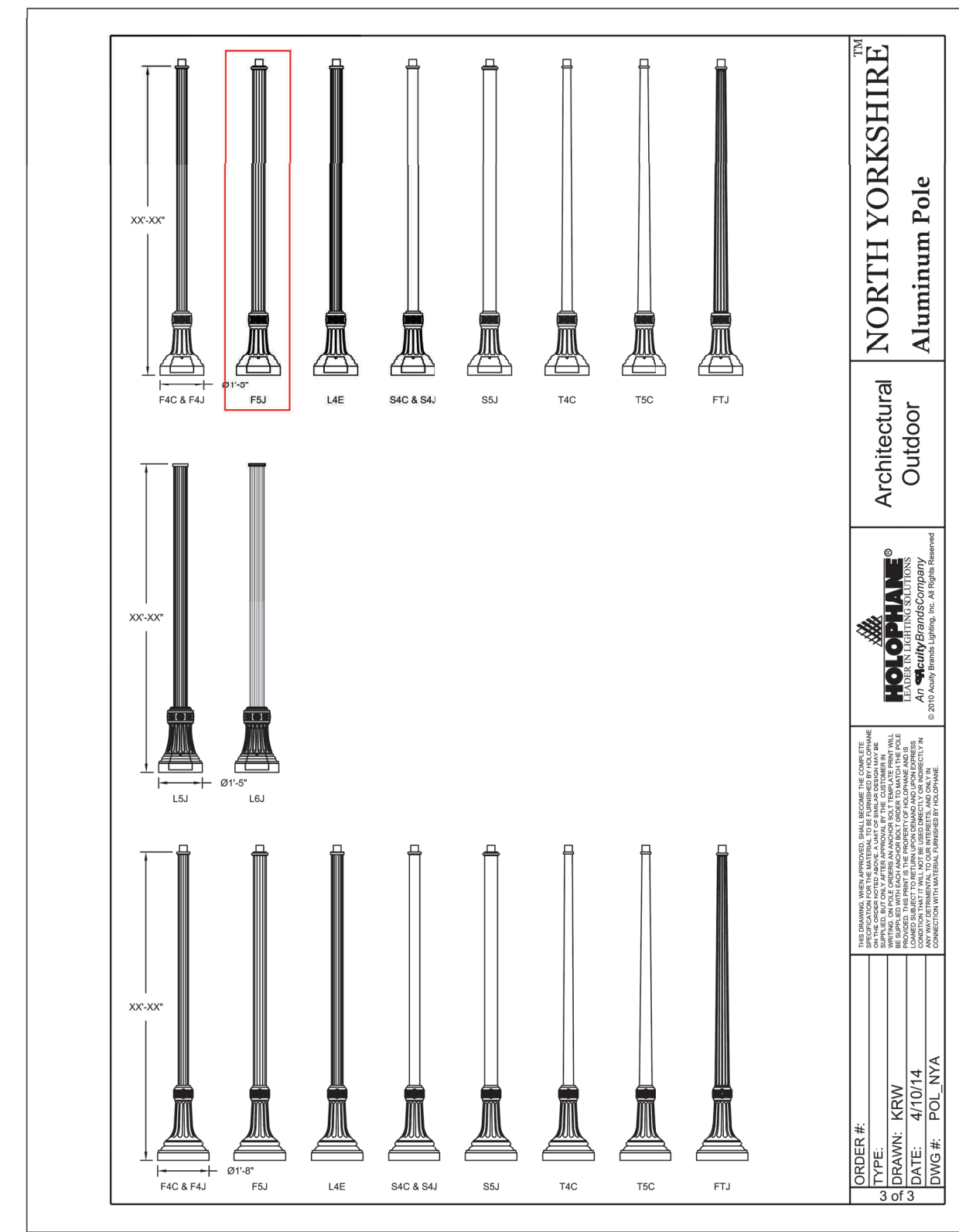






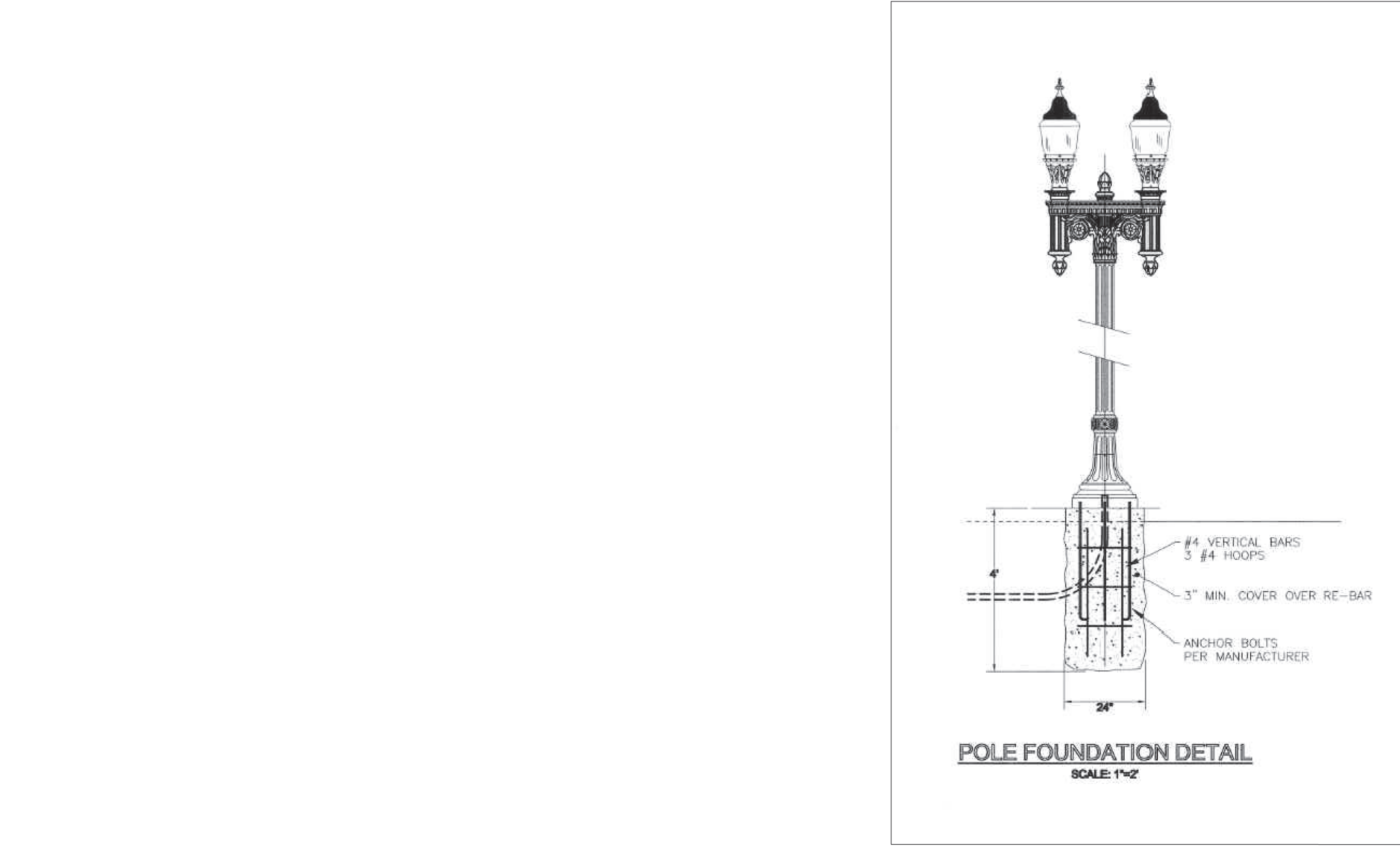
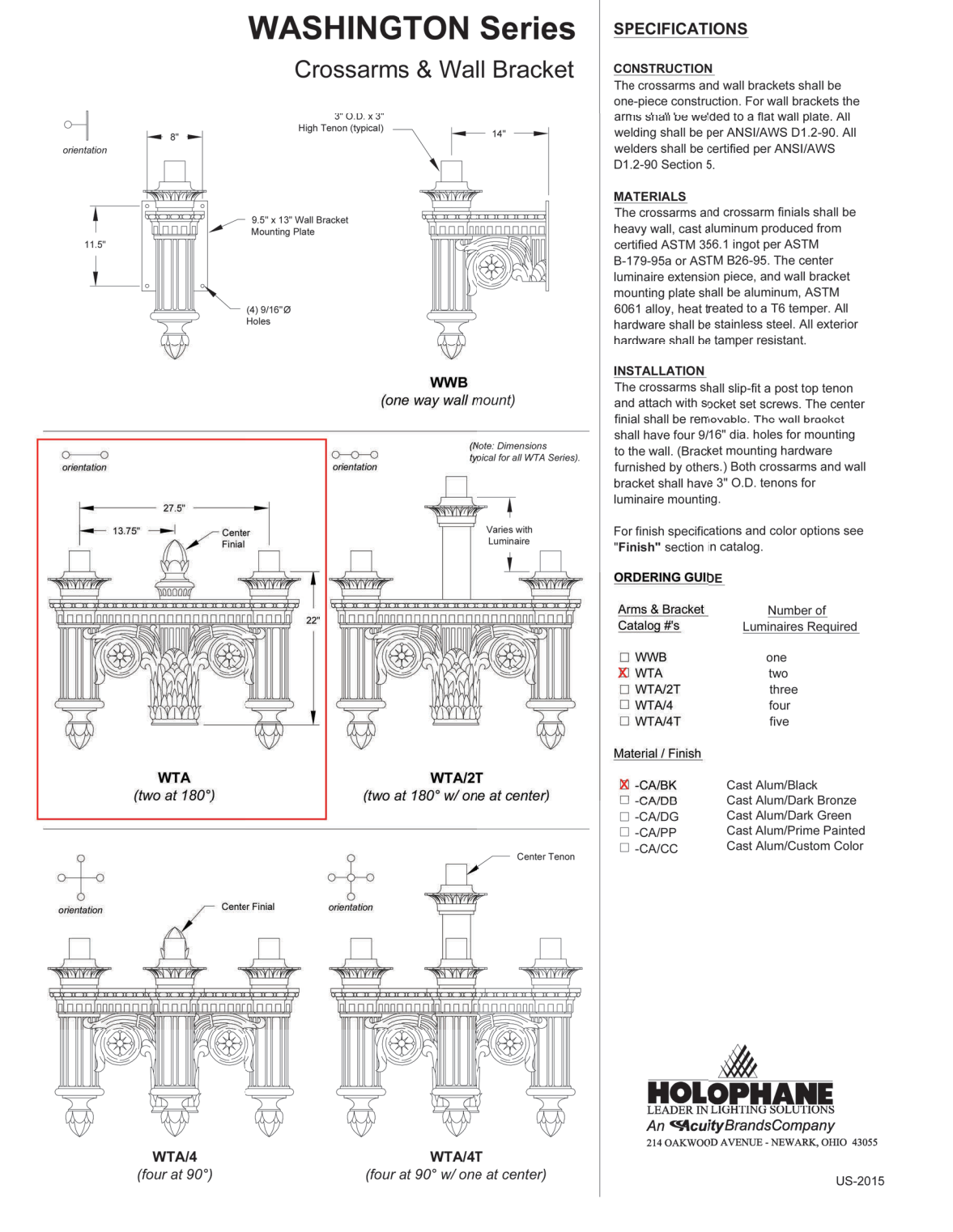
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DETAIL



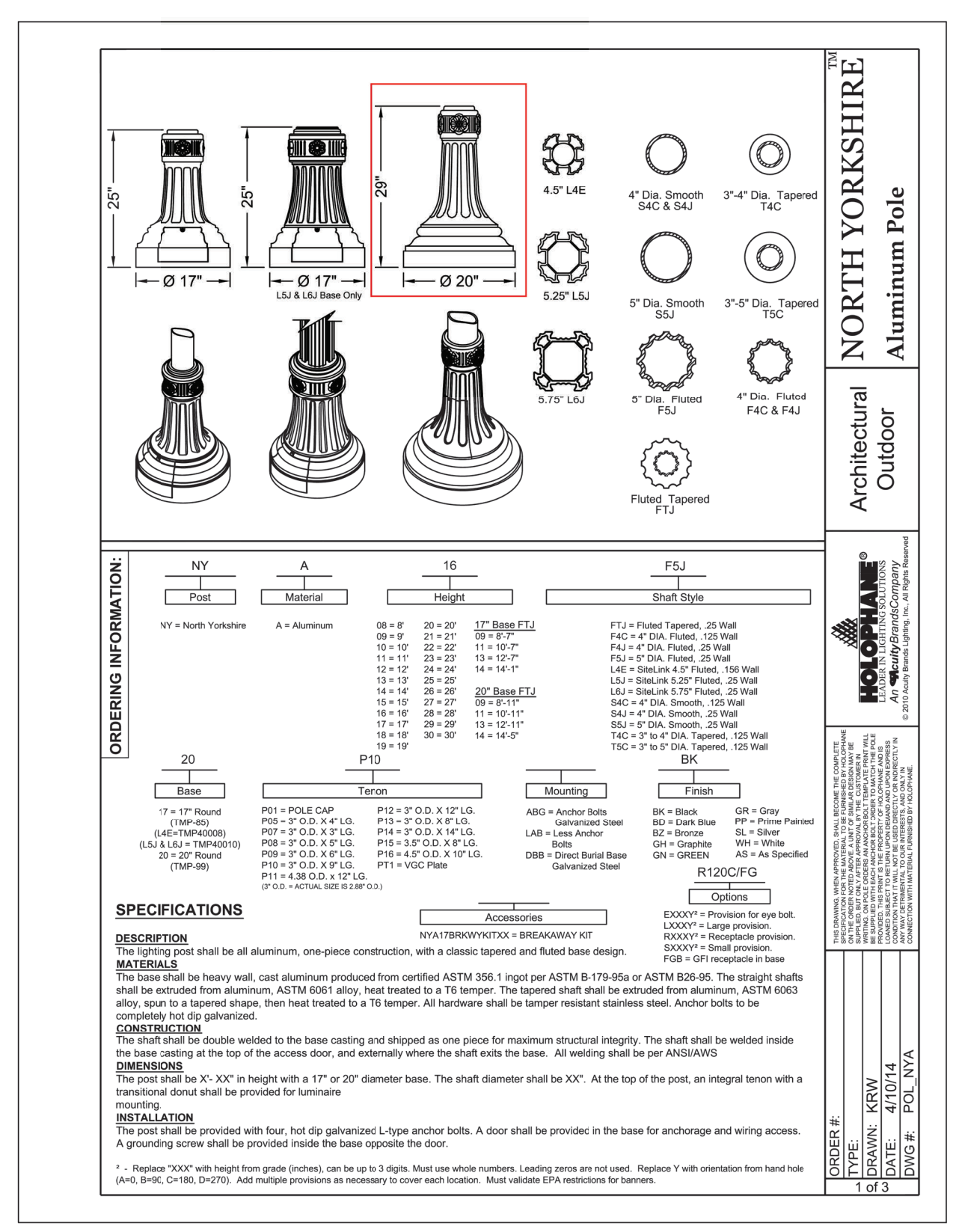
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DETAIL



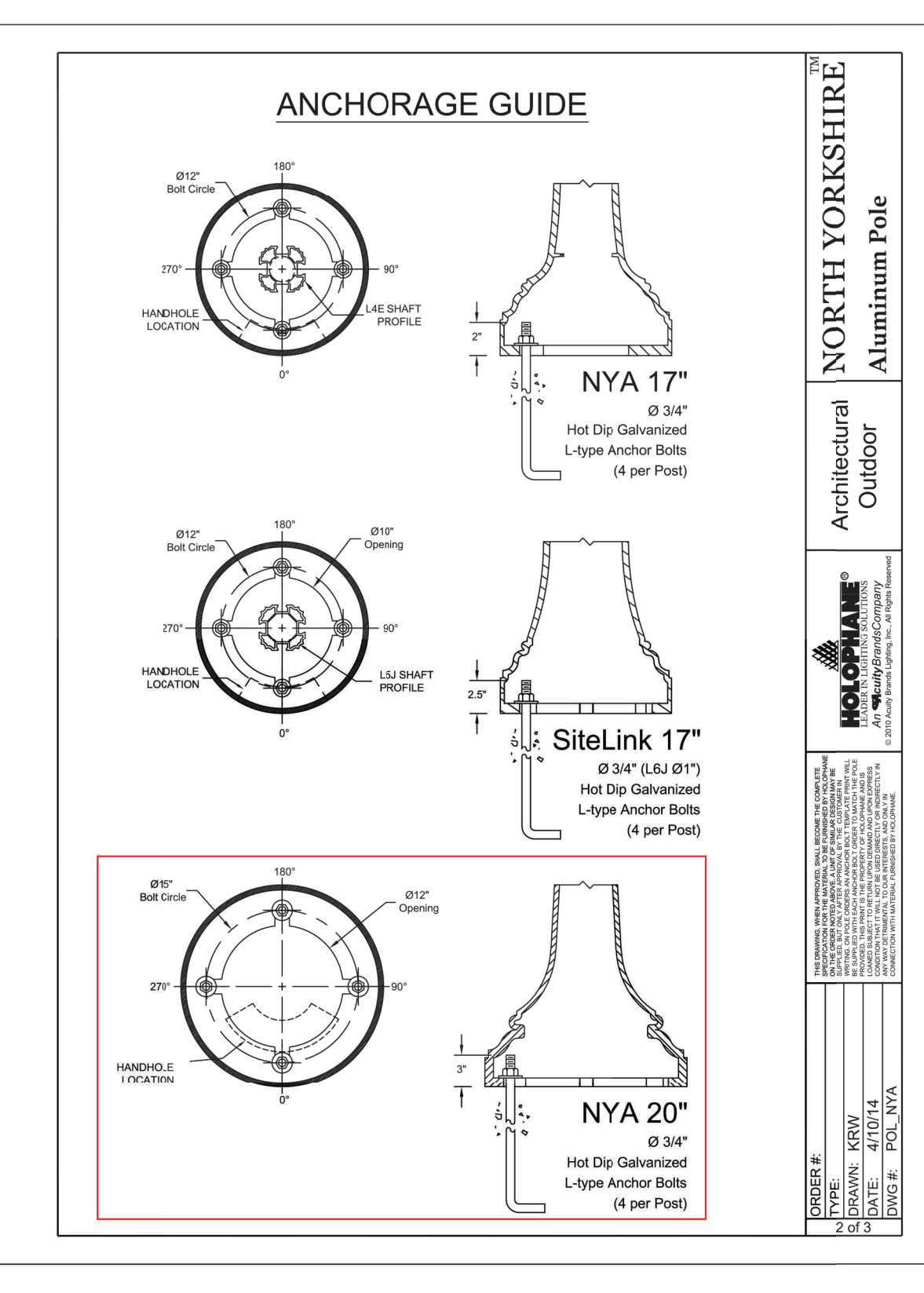
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DETAIL



1 NOT TO SCALE

DETAIL

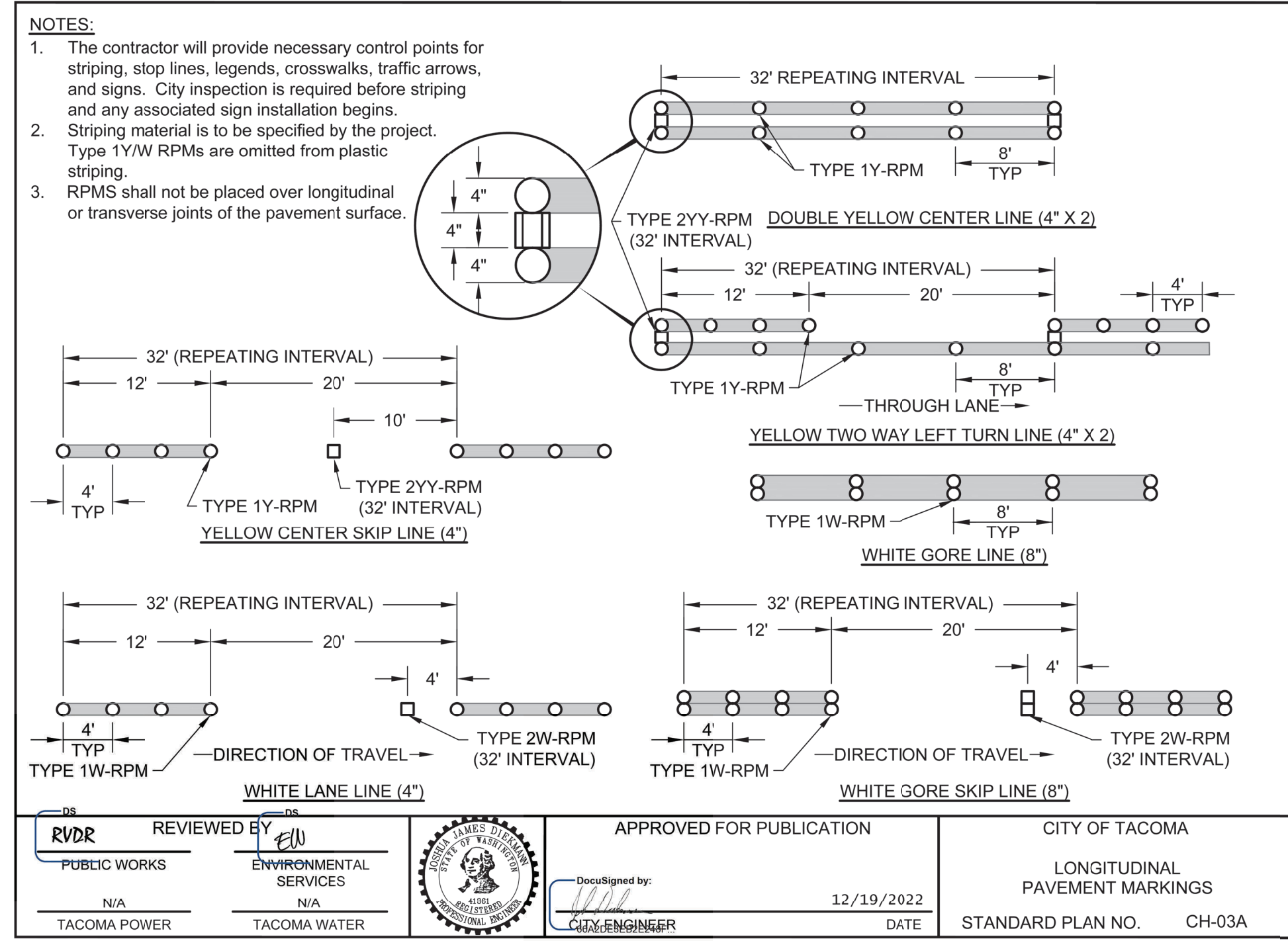
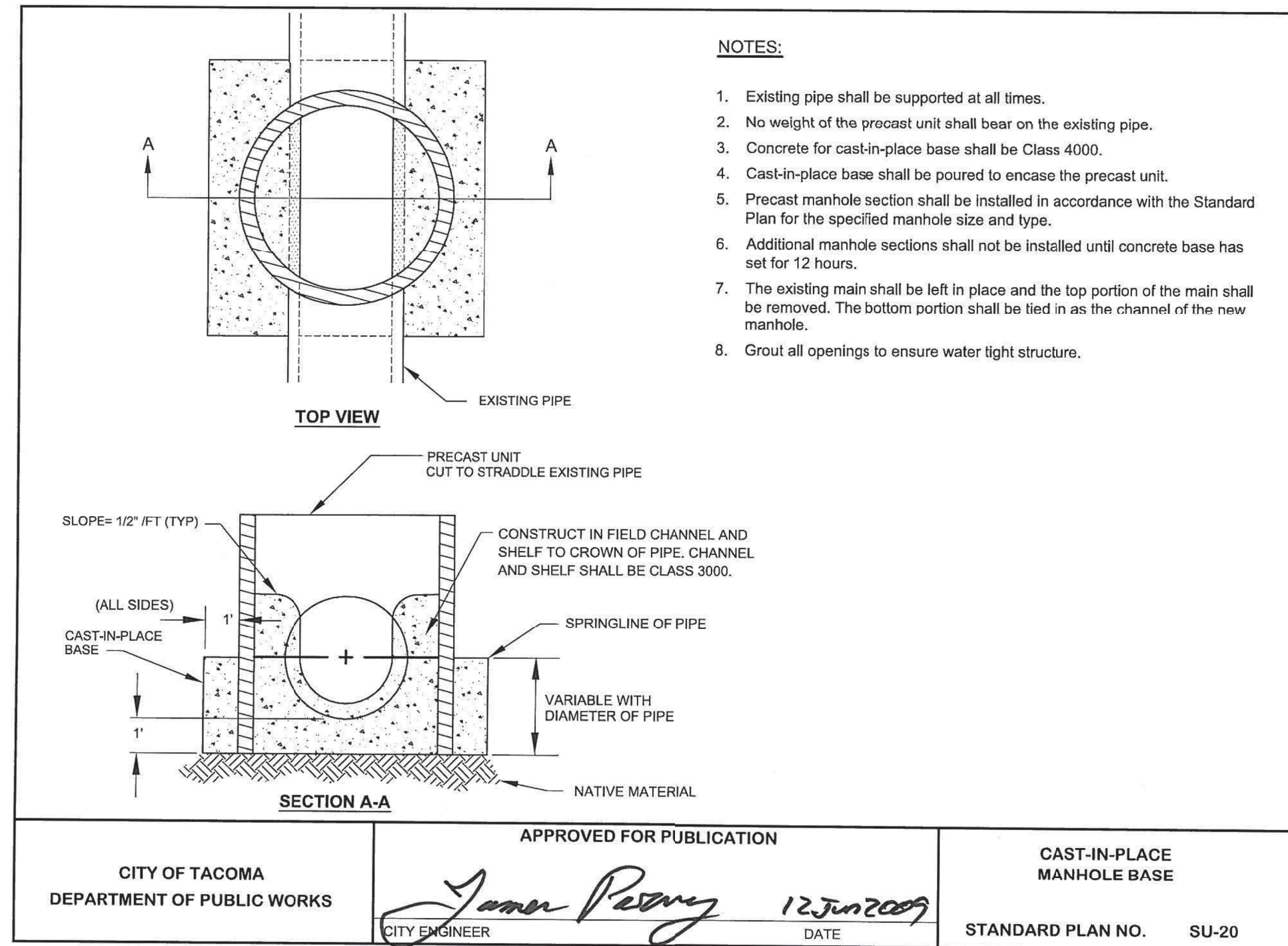


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DRAWN: RCB	PROJECT NAME: EPM01	
FIELD BOOKS	DRAWING NAME	



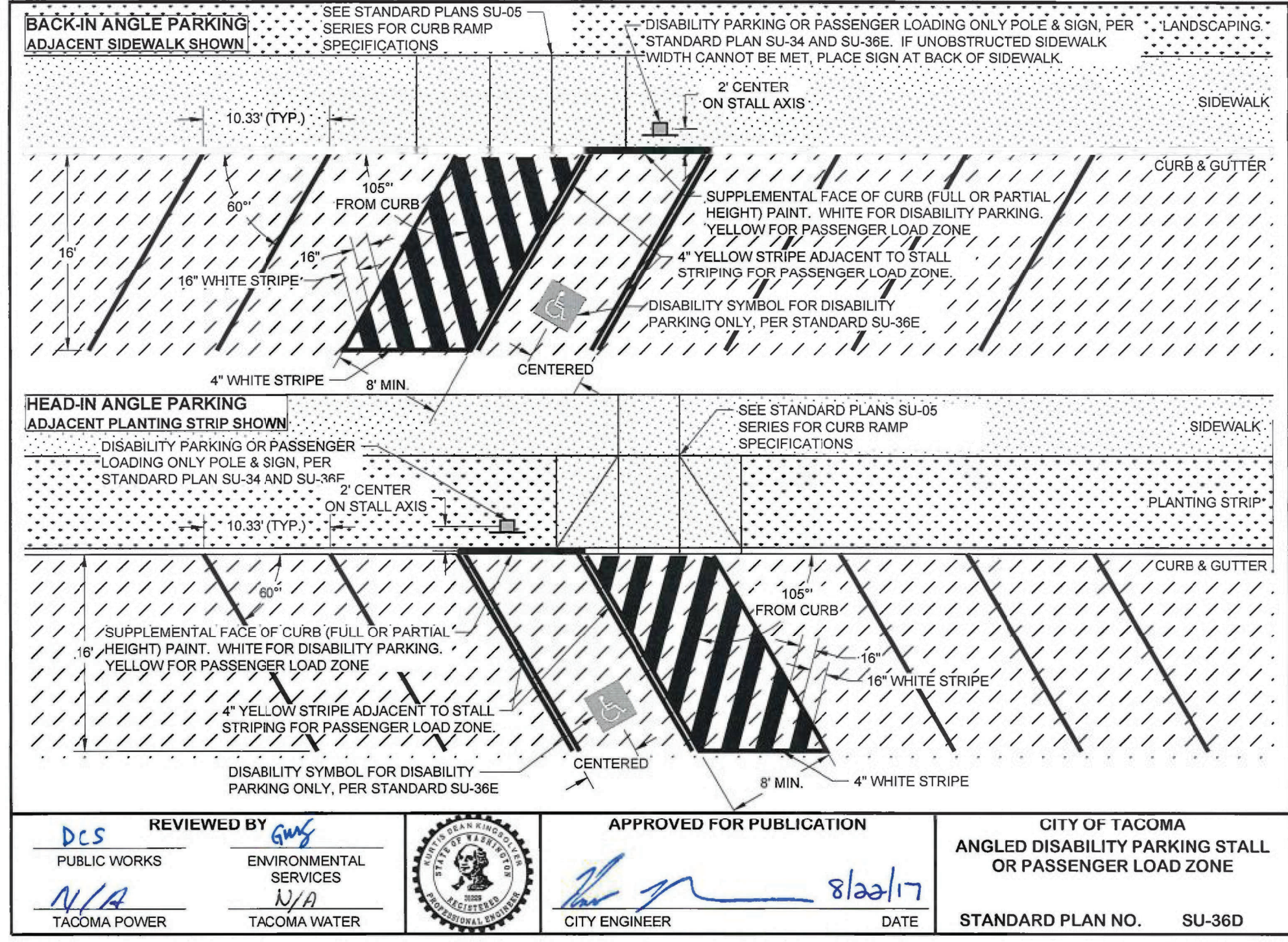
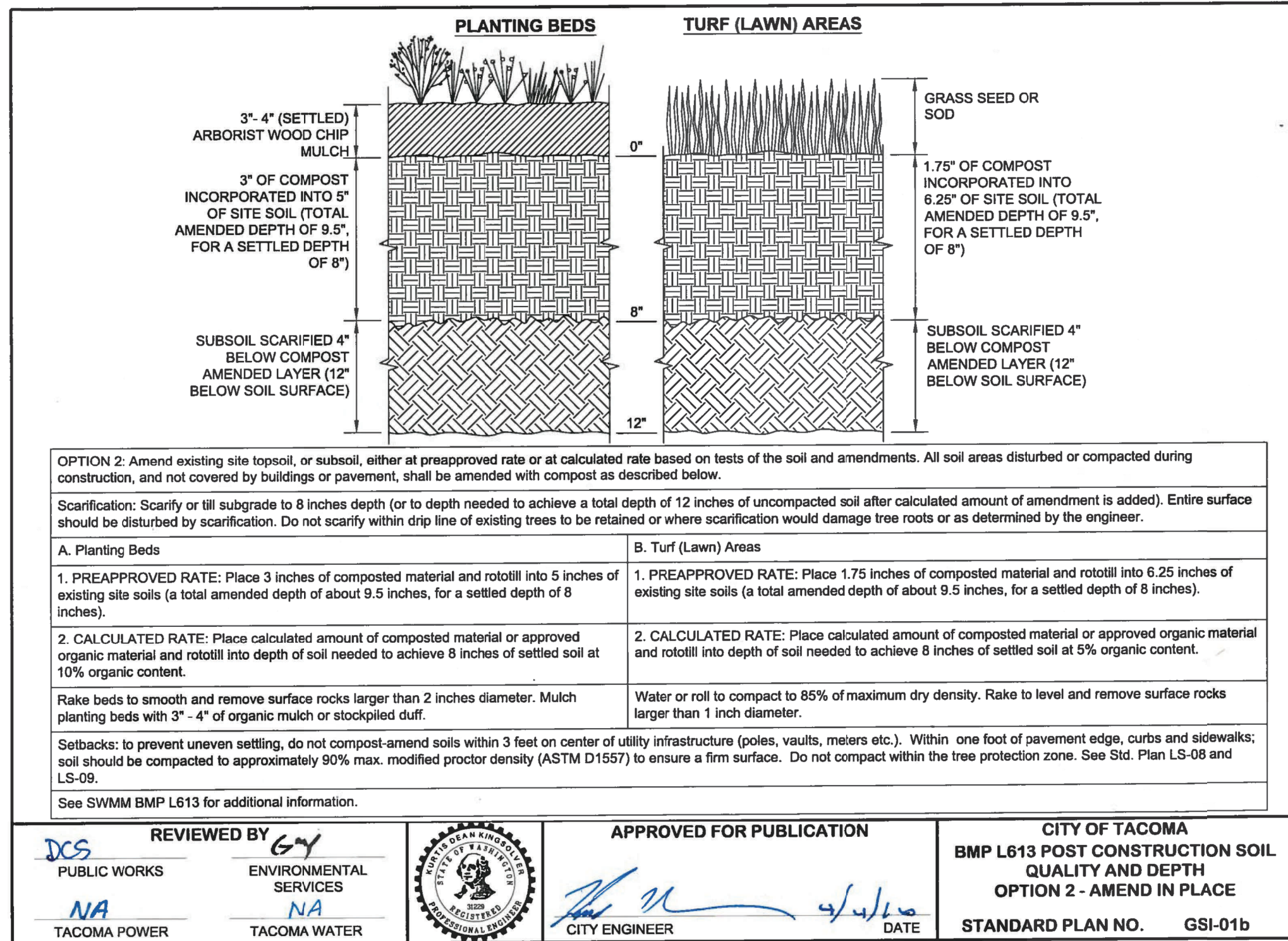


4 NOT TO SCALE

DETAIL

2 NOT TO SCALE

DETAIL



3 NOT TO SCALE

DETAIL

1 NOT TO SCALE

DETAIL

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**IRISGROUP**  
civil engineers

360-890-8955 | 299 N Market Blvd, Chehalis, WA 98532



Know what's BELOW  
Call 811 before you dig.



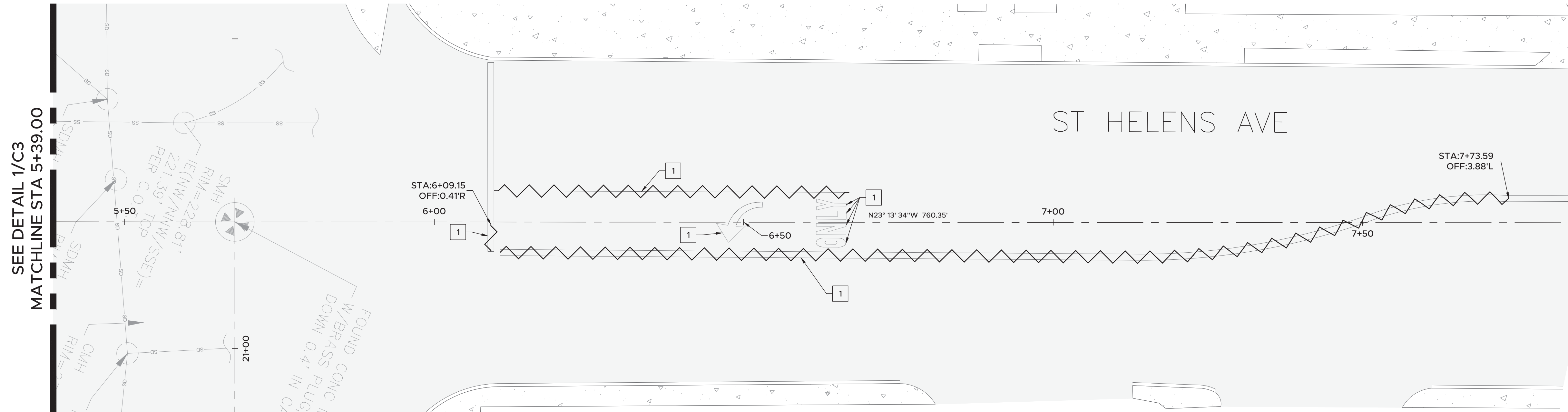
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FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY NDT	DESIGNED NDT	CHECKED NDT
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
DETAILS 9  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130  
SHEET NO. C19  
SHEET 19 OF 21

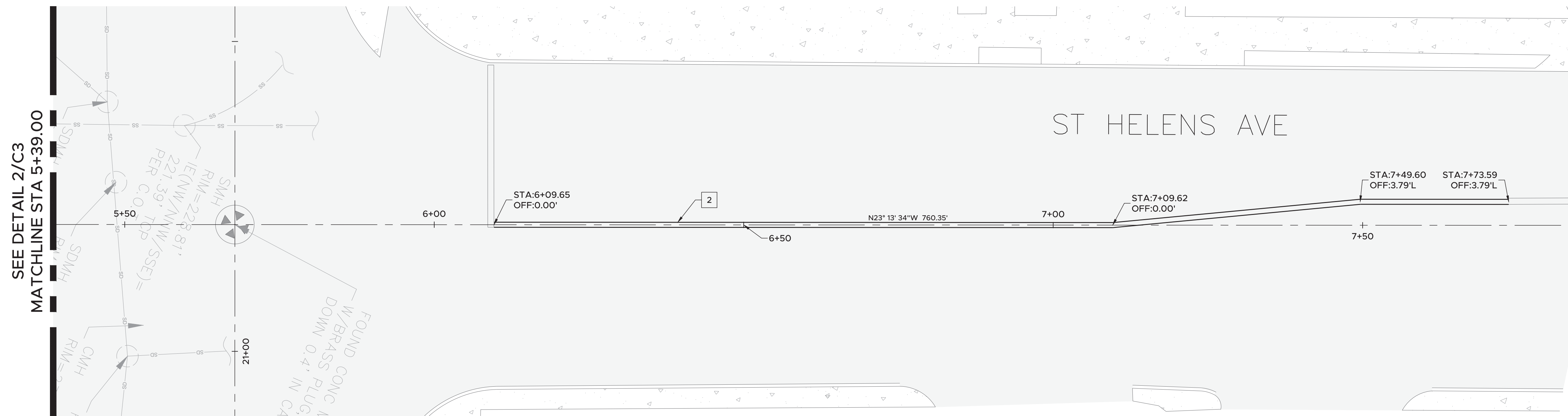


1

DEMOLITION PLAN NORTH

KEY NOTES #

1. HYDROBLAST TO REMOVE EXISTING STRIPING.
2. PROPOSED DOUBLE YELLOW THERMOPLASTIC STRIPING WITH RPMS PER DETAIL 2/C19



2

STRIPING PLAN NORTH

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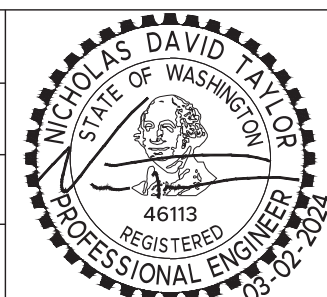
**IRISGROUP**  
civil engineers  
360-890-8955 | 299 N Market Blvd, Chehalis, WA 98532

**811**  
Know what's BELOW  
Call 811 before you dig.



NO	REVISION	DATE	APPD
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
BY	DESIGNED	CHECKED
DATE	DRAWN	PROJECT NAME
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
SITE & BUILDING DIVISION

ST HELENS NORTH DEMO AND STRIPING  
605 & 613 ST. HELENS AVE  
TACOMA, WA 98402

WO 22-0130  
SHEET NO. **C20**  
SHEET 20 OF 21

# CITY OF TACOMA RIGHT OF WAY GENERAL NOTES

## GENERAL

A.The following special provisions are to be used in conjunction with the City of Tacoma Special Provisions, City of Tacoma Standard Plans and City of Tacoma Right-of-Way Design Manual, " 2022 Standard Specifications for Road, Bridge and Municipal Construction" and "Standard Plans for Road, Bridge and Municipal Construction" as prepared by the Washington State Department of Transportation (WSDOT).

B.Any inconsistency between these work order drawings and the 2022 Standard Specifications or the WSDOT Standard Plans shall be resolved by the following order of precedence (e.g., 1 presiding over 2, 3, and so forth):

1. Approved Work Order Drawings
2. City of Tacoma Special Provisions, including APWA General Special Provisions, as applicable
3. City of Tacoma Right-of-Way Design Manual
4. Amendments to WSDOT Standard Specifications
5. 2020 WSDOT Standard Specifications
6. City of Tacoma Standard Plans
7. WSDOT Standard Plans

C.Any revisions to these plans must be submitted as a Field Revision through Planning Development Services, reviewed and approved by the City of Tacoma prior to any implementation in the field.

D.Contractors shall familiarize themselves with the site and shall bring any discrepancies to the attention of the Engineer of Record prior to undertaking the affected work.

E.Any discrepancy in these drawings, specifications, these notes, and the site conditions shall be reported to the Engineer of Record, who shall correct such discrepancy in writing after reviewing any changes. Any work done by the Contractor after the discovery of such discrepancy shall be done at the Contractor's risk. The Contractor shall verify and coordinate the dimensions among all drawings with their field survey and measurements prior to proceeding with any work.

F.A pre-construction meeting, if required shall be held between the City of Tacoma, the applicant, contractor, and City inspectors prior to issuance of a Work Order permit.

G.No traffic shall be allowed on any newly placed pavement without the approval of the City Inspector.

H.Cold Weather Concrete Work. The following requirements for placing concrete shall be in effect from November 1 to April 1:

1. The Inspector shall be notified at least 24 hours prior to any concrete placement.
2. Weather permitting, all concrete placement shall be completed no later than 2:00 p.m. each day.
3. Where forms have been placed and the subgrade has been subjected to severe frost, no concrete shall be placed until the ground is completely thawed.

At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.

## ADDITIONAL PERMITS

A.Separate site development and building permits are required for on-site work including all retaining walls, grading, and erosion control. Adherence to all conditions of these permits is required as a part of this plan.

B.Separate right-of-way construction permits are required for sidewalk installation, as well as, curb and gutter removal and driveway construction when constructed under a site development permit and not a work order.

C.Separate storm and sanitary sewer connection permits are required for each individual connections to the stormwater or wastewater systems and/or each individual treatment device, whichever total is greater. These are over the counter permits.

D.New franchise site services require separate right-of-way utility permits to serve the site. Final restoration shall be coordinated by the project.

## SAFETY/EXCAVATION

A.The existing underground utilities shown hereon are based upon available existing record drawings and are not guaranteed to be accurate, nor all-inclusive.

B. All utilities must be verified prior to construction. If the project requires any excavation, the developer/contractor is required to call the Utility Underground Location Center at (800) 424-5555 at least two business days before starting such excavation in accordance with RCW 19.122.

C.It shall be the Contractor's responsibility to protect, in place, all utilities and/or structures whether shown or not shown on this plan. Damage due to the Contractor's operations shall be repaired at the Contractor's expense. A preliminary walk through with photos shared with the inspector prior to the start of work is advised.

D.If workers enter any trench or other excavation four feet or more in depth that does not meet the open pit requirements of Section 2-09.3(3)B, it shall be shored and cribbed. All trench safety systems shall meet the requirements of the Washington Industrial Safety and Health Act, Chapter 49.17 RCW. The Contractor alone shall be responsible for all worker safety, and neither the City of Tacoma nor the Engineer of Record assumes any responsibility.

## PAVEMENT PREPARATION / RESTORATION

A. Additional removal and replacement of pavement may be required to provide proper transition/crown as directed by the City of Tacoma Inspector in the field. Final restoration limits shall be determined in the field by the City of Tacoma Inspector.

B. The street sections shown on this plan are designed to be placed upon a firm and unyielding base.

C. Subgrade compaction shall be tested by a testing professional prior to placing base material.

D.Pavement Preparation shall meet all applicable requirements of City of Tacoma Right-of-Way Design Manual Chapter 4 Sections 5.4 and 5.5.

E. Mix design shall be based on Standard Plan PD-01-Pavement Design Standards and PD-02 Pavement Design Worksheet.

F.Pavement restoration shall be constructed in accordance with the City of Tacoma Restoration Policy and applicable Standard Plans.

G. Unsuitable material to be removed and replaced.

H.All permanent traffic channelization, such as but not limited to legends, raised pavement markings, paint, and signage, shall be restored to current Tacoma Standards. Temporary striping shall be maintained as indicated on the plans or as directed by the City of Tacoma Inspector.

## HOT MIX ASPHALT

A. All standard hot mix asphalt shall be compacted to a minimum of 92 percent of the maximum density as determined by AASHTO T209. All standard hot mix asphalt utilized shall be considered compactable. The level of compaction attained will be determined as the average of not less than 5 nuclear density gauge tests taken on the day the mix is placed (after completion of the finish rolling) at randomly selected locations within each lot. The quantity represented by each lot will be no greater than a single day's production or approximately 400 tons, whichever is less.

B. All testing results shall be provided to the City Inspector within 48 hours of the test.

C. Control lots not meeting the minimum density standard shall be removed and replaced with satisfactory material.

D. In addition to the randomly selected locations for test of the control lot, the City Inspector reserves the right to test any area which appears defective and to require further compaction of areas that fall below acceptable density readings. These additional tests shall not impact the compaction evaluation of the entire control lot.

E. Hot mix asphalt pavement shall not be placed on any traveled way between October 1 and April 1, without written approval from a Planning and Development Services Review Engineer.

## CONCRETE

A.Curing of concrete shall be in accordance with Section 5-05.3(13) of the Standard Specifications.

B.The slump for standard concrete used for sidewalks shall not exceed four inches +/- one inch.

C.Sidewalks and curb ramps shall be constructed in accordance with ADA Standards for Accessible Design, 28 CFR, Part 35 and as supplemented by the Public Works Right of Way Accessibility Guidelines (PROWAG).

## SANITARY AND STORM SEWERS

A. 7-08.3(2)F Plugs and Connections:

Rigid Couplings, manufactured by Romac Industries, Inc., or City of Tacoma approved equal, shall be used at any pipe joint in which bell and spigot or fused joints are not used. Flexible couplings are not permitted.

B. 7-08.3(2)G Jointing of Dissimilar Pipe:

Dissimilar pipes shall be joined by use of rigid couplings manufactured by Romac Industries, Inc., or City of Tacoma approved equal, except for side sewer installation.

C.Sewers and appurtenances shall be cleaned and tested after backfilling by either exfiltration or low-pressure air method at the option of the Contractor, except where the ground water table is such that the Engineer may require the infiltration test.

D. All abandoned pipes encountered during construction and new stormwater and wastewater stub outs shall be sealed with a watertight pipe plug.

E. All frames and grates for standard catch basin inlets on this project shall be "vaned" type and shall conform to that shown on WSDOT Standard Plan No. B-30.10-03, B-30.30-03, and B-30.40-03.

F. Where existing catch basins are modified, grates may be required to be replaced with vaned grates. The City will make the final determination based on the condition of the existing grate and structure.

G. Recycled concrete aggregate shall not be used as gravel backfill where stormwater or groundwater may come into contact with the concrete aggregate, be collected and discharged to the stormwater system or receiving waterbody (such as underdrain systems.). Recycled materials used shall meet the requirements of all applicable local, state, and federal regulations including the City's SWMM, Right-of-Way Design Manual, and Tacoma Municipal Code as applicable to the give application.

H. New connections to brick manholes may be allowed on a case-by-case basis and will be assessed by City staff if it can be structurally cored. Manhole replacement may be required by the Environmental Services Department based upon the condition of the existing manhole.

I. The property side ends of the side sewers shall be marked in the field by means of a 2-inch by 4-inch board and locate wire that extends from the flow line of the side sewer to at least 1 foot above the finished lot grade.

J. After any new stormwater and/or wastewater pipes have been cleaned and the manholes channeled, the main(s) shall be televised for video inspection to provide a record of the constructed conditions and for the wastewater system to verify side sewer connection locations. The City of Tacoma will coordinate this inspection.

## MISCELLANEOUS

A.Fences and structures replaced and/or relocated shall be maintained and remain functional.

B.Independent quality assurance sampling and testing will be provided by a certified independent laboratory for all improvements within the right-of-way. All special inspection reports shall be forwarded to the Site Development Group on a monthly basis consistent with the directions given in the preconstruction meeting, and/or as requested by the City of Tacoma Inspector.

C. If hydrant water is needed the contractor is required to contact Tacoma Public Utilities, Water department, at (253) 502-8247, to obtain a permit. TPU may impose a fine for use of a non-registered water meter and/or backflow device.

## EARTHWORKS, GRADING, EXCAVATION, AND EROSION CONTROL NOTES

A.All work is to be done in accordance with the approved grading plan, soils report, the most current WSDOT Standard Specifications For Road, Bridge And Municipal Construction, the 2021 City of Tacoma Stormwater Management Manual, City of Tacoma Standard Plans, and TMC 2.0.

B.When construction operations are such that debris from the work is deposited on the streets, the Contractor shall immediately remove any deposits or debris which may accumulate on the roadway surface. If the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor shall, upon order of the City of Tacoma Inspector, clean the streets and provide facilities for the removal of all rock and sediment from the tires and between wheels before trucks or other equipment will be allowed to travel over paved streets. Should the Contractor fail or refuse to clean the streets in question, or the trucks or equipment in question, the City of Tacoma Inspector may order the work suspended at the Contractor's risk until compliance with the Contractor's obligations is assured, or the City of Tacoma Inspector may order the streets in question cleaned by others and such costs incurred by the City in achieving compliance with these requirements, including cleaning of the streets, shall be charged to the work order account.

C.The Contractor shall protect existing drainage structures using acceptable methods and materials as shown on this plan. If the methods and materials as shown on this plan are not adequate, the City of Tacoma Inspector may require additional/alternative methods for erosion control and/or protection of existing drainage structures. Additional or alternative methods shall be submitted by the design engineer and accepted by the City of Tacoma Inspector. Any damage caused to the City of Tacoma stormwater system as a result of the work outlined on this plan shall be the sole responsibility of the Contractor. Resolving said damage may include, but not be limited to, the cleaning of the drainage system in question by the Contractor.

D.Watering provisions when applicable must be in place to prevent dust from becoming air borne. Violation of this condition will result in a stop work order until corrected.

E.Fill that will support a street section or other structures shall be placed under the inspection of a Washington State licensed Professional Engineer. Soil to be placed shall be tested and compacted to 95 percent of its maximum density. Engineer shall document existing site conditions, soil and its placement and allowable bearing capacity submitted. Standard requirements for cuts and fill are contained in the WSDOT Standard Specifications For Road, Bridges, and Municipal Construction.

F. A Construction Stormwater Pollution Prevention Plan (SWPPP) in accordance with the 2021 City of Tacoma Stormwater Management Manual is required for all projects with over 2,000 square feet of impervious surface.

G. Soil shall not remain unworked or exposed for more than 2 days.

H. Per TMC 10.22.140.C, no construction shall be performed nor shall any traffic lane be closed to traffic between Thanksgiving day and New Year's day within the downtown core and outlying business districts unless otherwise approved by the Director. View maps of these areas online:

[https://www.cityoftacoma.org/government/city\\_departments/community\\_and\\_economic\\_development/neighborhood\\_business\\_districts](https://www.cityoftacoma.org/government/city_departments/community_and_economic_development/neighborhood_business_districts)

## INSPECTIONS

A.All erosion control shall be in place prior to clearing except for that clearing necessary to install said erosion control measures. The contractor shall schedule an inspection for the City of Tacoma Inspector for initial erosion control inspection prior to start of work, per item E. below.

B.Erosion control measures shall be maintained at all times to the approval of the City of Tacoma Inspector.

C.Should temporary erosion and sedimentation control measures, as shown on plans become inadequate, the contractor shall install facilities as necessary to protect adjacent properties and the City of Tacoma drainage system, meeting approval of the City of Tacoma Inspector.

D.Not considered a complete list of inspections required. Call for inspection of the City of Tacoma Inspector upon completion of:

- Erosion control measures and ongoing regular maintenance
- Compaction reports on trenches prior to placement of crushed rock/backfill
- Channeling of manholes
- Air-testing of sewer mains
- Compaction reports for crushed rock prior to placing asphalt
- Any concrete work: inspection is required for subgrade, forms, and finish
- Adjustments of Utilities
- Monumentation
- Stand Alone Permits: such as driveways, sidewalk, SEWER, STORM, RUTI, street lighting
- WATER permits – these cover the connection from the meter to the house
- Hydroseeding of cuts/fills and slope stabilization
- Final clean-up and project completion
- Construction Deficiency List (Punchlist)

E. All material removed from site shall be placed only at a permitted site. Verify location of destination of material prior to exportation. Material excavated from the site shall be discarded at an approved facility per Pierce County Health, Ecology.

F. All wastewater and stormwater pipes shall be video inspected by City Forces prior to paving where paving occurs over sewers. All other sewers will be video inspected prior to final acceptance of new mains.

G. If contaminated soils are suspected and/or encountered within the project contact your inspector. For more information contact the Department of Ecology.

H. All work performed by contractor shall comply with the procedures required WAC 296-62 and WAC 296-65. Contractor shall contact the Puget Sound Air Pollution Control Authority in Seattle at 206-344-7330 for information regarding removal and packaging and Pierce County Environmental Health Department in Tacoma, WA at 253-591-6571 for information regarding transportation and disposal.

I. Contractor shall conform to Department of Ecology's guidelines for contamination cleanup for projects within the Tacoma Smelter Plume Project Area. For more information contact the Department of Ecology at 360-407-7096.

## TREE REMOVAL/PROTECTION

A. All areas that are cleared and grubbed, graded, excavated or filled are subject to stabilization. Any of these areas that are left unpaved or lack landscaping shall be hydroseeded or otherwise fully stabilized under the direction and approval of the Construction Inspector.

B. Hydroseeding may occur only during the periods of April 1 though May 31 or September 1 though October 15. Hydroseeding may be allowed during the months of June through August if irrigation is provided.

C. Monitor and maintain hydroseeded areas throughout the winter wet season to ensure that no erosion occurs.

D. Trees to be removed shall be clearly marked for removal. Trees to be saved shall be fenced with barricade fence at the drip line (outer edge of tree branches) to keep construction vehicles from compacting root zone and killing trees. This fencing shall be maintained until construction ends.

E. Tree protection measures to be installed with initial TESC measures and shall be maintained throughout the duration of site work. Refer to City of Tacoma Std. Plans LS-08 through LS-11.

## TRAFFIC CONTROL

A. Per TMC 10..22.140.C, no construction shall be performed nor shall any traffic lane be closed to traffic between Thanksgiving day and New Year's day within the downtown core and outlying business districts unless otherwise approved by the Director. View maps of these areas online:

[https://www.cityoftacoma.org/government/city\\_departments/community\\_and\\_economic\\_development/neighborhood\\_business\\_districts](https://www.cityoftacoma.org/government/city_departments/community_and_economic_development/neighborhood_business_districts)

B.Prior to the start of any work within the City of Tacoma ROW a complete TCP set shall be on site in addition to a complete set of approve drawing.

## MONUMENT REMOVAL PERMIT PROCESS

A. "No survey monument shall be removed or destroyed (the physical disturbance or covering of a monument such that the survey point is no longer visible or readily accessible) before a permit is obtained from the Department of Natural Resources (DNR)." WAC 332-120-030(2) states "It shall be the responsibility of those performing construction work or other activity (including road and street resurfacing projects) to adequately search the records and the physical area of the proposed construction work or other activity for the purpose of locating and referencing any known or existing survey monuments." Construction shall not commence until WAC outlined in Chapter 332-120 is complied with.

B. Monuments on the plans shall be protected in place or the plans will call out the identified DNR permit for removal and replacement.

## HORIZONTAL CONTROL AND VERTICAL CONTROL

Work in the right-of-way will be performed using construction staking established from two (2) City monuments for establishing control and basis of bearing. A list of survey monuments can be found at <https://cms.cityoftacoma.org/PublicWorks/Engineering/LandSurvey/SurveyMons.pdf>

## HORIZONTAL AND VERTICAL CURVES

For all infrastructure constructed using horizontal and/or vertical curves, grade stakes must be set every 25 feet and at grade breaks with a minimum of 3 stakes for each curve. Stakes shall be placed at radius points on street returns.

## STAKING REQUIREMENTS

A. Construction staking shall be per Standard Plan SU-26.

B. SANITARY SEWER AND STORMWATER

1. Clearing stakes if needed.
- 2.Stakes every 50 feet plus grade breaks. Try to maintain 12 foot offsets in streets and 8 foot offsets in alleys.
- 3.Double offsets at manholes and catch basins (ahead and back stakes at angle points).
- 4.Catch basin station shall be to the centerline of the basin. Catch basin offsets shall be to the face of the curb.

C. RESIDENTIAL STREETS AND PRIVATE ACCESSWAYS

- 1.Clearing stakes as needed.
2. Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- 3.Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb. Curb stakes are set to the top of curb grade (Blue Tops).
4. Also stake the beginning and end of all approaches.
5. No centerline of street grades unless the street grade is warped. If street grades are needed, set blue tops for each course.

D. ARTERIAL STREETS

- 1.Clearing stakes as needed.
- 2.Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- 3.Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb.
- 4.Curb stakes are set to the top of curb grade (Blue Tops). Also stake the beginning and end of all approaches.
5. Stake centerline and quarterline grade every 50 feet and grade breaks at grade for each course.

E. ALLEYS

1.Stake both sides every 50 feet and grade breaks, on a 2 foot offset to the edge of paving, with a cut or fill to edge of paving on high side and flow line on low side.

F. SIDEWALKS

- 1.Offsets for walks are set on 50' intervals and grade breaks normally at 2 foot to edge of walk and at edge of walk grade (Blue Tops).
- 2.Sidewalk alignment is normally at 5 feet from the face of curb. No walk grades are needed if curbs are built but running slope and cross slope per American with Disabilities must be met for all new walk meeting the design.

## RECORD DRAWINGS CRITERIA FOR ACCEPTANCE OF ALL PRIVATE WORK ORDERS

A. Record drawings shall be received and accepted prior to issuing utility connection permits or release of performance bonds.

B. All revisions to the approved plans must be approved by the City of Tacoma prior to implementation of the changes.

C. A determination at the time of proposal to the Site Review Engineer shall be made whether the revision can be addressed with red line drawings submitted as a part of the record drawings or if it will require formal submission for approval.

D. Record drawings shall show the station, offset, centerline and gutter flowline elevations, to nearest 0.01 foot; for all horizontal and vertical roadway alignment changes, at the intersection end of radius points and at the beginning and end of new paving.

E. Record drawings shall show the station, offset, invert, and rim elevations to the nearest 0.01 foot for all stormwater and wastewater structures. (i.e.: manholes, catch basins, etc.)

F. Record drawings shall show all side sewers and shall locate them by measurements from permanent objects. (i.e.: curb, property corner, etc.) In addition, the depth of all side sewers shall be noted on the record drawings and locate board.

G. Record drawings shall show vertical and horizontal datum for survey monuments (existing or new construction) within the limits of the project.

H. Record drawings shall consist of a clean set of approved work order drawings with all changes noted above shown in red.

I. Record drawings, including the Engineer's Certification, as applicable, must be submitted within 30 days of substantial completion and prior to release of the performance bond or assignment of funds or City survey crews will collect the necessary data and bill against the work order.

## BOND RELEASE

The following are required to be collected for the performance bond to be release to the owner:

- Punchlist Completion.
- Record Drawings
- Engineer Certification for Stormwater Facilities

Revised: January 26, 2023

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REVISION

DATE

APPD

FINAL CONSTRUCTION CHECKED	DATE 03/02/2024	SCALE
BY	DESIGNED NDT	CHECKED NDT
DATE	DRAWN RCB	PROJECT NAME EPM01
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		WO 22-0130
CITY NOTES 605 & 613 ST. HELENS AVE TACOMA, WA 98402		SHEET NO. <b>C21</b>
SITE & BUILDING DIVISION		SHEET 21 of 21