

1. 1:00 P.M. Agenda

Documents:

[2024-01-17 City Council Regular Meeting Agenda1.Pdf](#)

2. 1:00 P.M. Meeting Materials

[2023-11-Financial-Report-Council](#)

[2023-11-Fund-Balances-And-Contract-Exp](#)

Documents:

[FW Public Restrooms - Corsp Msg.pdf](#)
[1.17.24 CM Report City Council Regular Meeting.pdf](#)
[2023 December Public Works Report.pdf](#)
[YACHATS STANDARD DRAWINGS DRAFT 1-3-24.Pdf](#)
[Wastewater System Quotes Ad Summary 1_8_2024.Pdf](#)
[Copy Of Community Services Coordinator Report 1.17.24.Pdf](#)
[City Coordinator Workflow Tool.pdf](#)
[2024-225 RES Commission-Committee Re-Appointments.pdf](#)
[Planning Commission Applications.pdf](#)
[Question For Planning Commission Applicants FINAL.pdf](#)
[2024-226 RES Planning Commission Appointments.pdf](#)
[Re Beach Street Kitchen .Pdf](#)
[Beach Street Kitchen Appeal Docs.pdf](#)
[Fireworks Ban Ordinances- Lincoln County And Waldport.pdf](#)
[PWSC Treewell Proj.pdf](#)
[PWSC Go-Bags Proj.pdf](#)
[City Of Yachats Disaster Relief Supply Cache Proposed V3 Pdf.pdf](#)
[Template City Council -PWSC 3.Pdf](#)
[Estuary Boardwalk Overview For LOS.pdf](#)
[Yachats Resilient Civic Campus Plan With Cover Page.pdf](#)
[1.17.24 OSU Micro-Plastic Study.pdf](#)



CITY OF YACHATS
441 N Hwy 101, Civic Meeting Room 1
Wednesday, January 17, 2024, at 1:00 pm
To Be Held In-Person & Via Zoom

Join Zoom Meeting

<https://us02web.zoom.us/j/89654498587>

Meeting ID: 896 5449 8587

Regular Council Meeting

- I. Announcements, Proclamations, and Correspondence
- II. Public Comment - limited to items not on the agenda
(5-minute limitation per person)
- III. Consent Agenda – Vote to Approve
 - a. City Manager Report
 - b. Public Works Report & CIP's
 - c. City Staff Reports
 - d. Commission/Committee Meeting Summary's
 - e. Financial Reports
 - f. Resolution 2024-225 Re-Appointments for Commissions
- IV. New Business
 - a. Planning Commission – Interviews & Appointments
 - b. Food & Beverage Appeal – Beach Street Kitchen Unpaid Taxes
 - c. Public Works & Streets - Treewells & Emergency Preparedness Proposal
 - d. Fire Works Ordinance – Discussion
- V. Ongoing Business
 - a. Boardwalk Grant Support
 - b. Resiliency Grant Project Update
 - c. OSU Extension to Reduce Micro Plastic Grant Opportunity
- VI. Other Business
 - a. From the Mayor
 - b. From Council
 - c. From Staff

The Yachats City Council meetings are open to the public and interested citizens are invited to attend via Zoom. These are open meetings under Oregon law, but a work session is not a community forum; audience participation is at the discretion of the Council. Meetings are audio-recorded. The meeting are accessible to persons with disabilities. For accommodations, please call (541) 547-3565, or Oregon Relay 1-800-735-2900 TDD) two days in advance. City of Yachats does not discriminate on the basis of race, color, religion, creed, gender, national origin, age, disability, marital or veteran status, sexual orientation, or any other legally protected status. Sign language or foreign language interpreter may be available, with advance notice. Call City Hall at 541-547-3565 or Oregon Relay 1-800-735-2900 (TDD) two days in advance.

POSTED January 11, 2024 By: Kimmie Jackson Deputy City Recorder

From: Mayor
Sent: Wednesday, January 10, 2024 5:35 PM
To: Bobbi Price; Kimmie Jackson
Subject: FW: Public restrooms

Communications from a resident.

From: [David Diamond](#)
Sent: Wednesday, January 10, 2024 3:26 PM
To: [Mayor](#)
Subject: Public restrooms

Hello Craig,

I am reaching out to you regarding my desire to see a daytime public restroom facility to be made available at or in the vicinity of the Commons. My friend and neighbor, Don Phipps who is a member of the Public Works and Streets Commission, shared with me that he presented the need for public restrooms during yesterday's meeting. For the last 5 years my wife and I have been vendors at the Yachats Farmers Market where at our booth, Dancing Lizard Gardens, we offer both hardy and tender container planted succulents. During our five year tenure as vendors at the market we have met hundreds of folks. While, like yourself, many local residents visit our booth, the vast majority of people that come to the market are non-resident tourists. During a typical Sunday at the market I get the common question, where is a restroom. The only response I have is to point to a port-a-potty behind the Commons. Often the port-a-potty has not had a recent servicing. I asked the Market Manager if the restrooms inside the commons could be made available for visitors. I was told that the City does not want to give access to those commons restrooms unless there is an event going on inside. I recommend that you consider either building public restrooms adjacent to the commons or provide access to the existing restrooms inside during reasonable daytime hours.

I would be happy to discuss this further by phone, feel free to call me.

Thank you,
David Diamond
955 Hanley Drive
Yachats

(541) 517-8535



*City Council Regular Meeting
Meeting Date: January 17, 2024*

ITEM TITLE: City Manager Report

DISCUSSION/BACKGROUND/ISSUE:

1. **Commons Reader board sign-** The Parks & Commons Commission has been considering the implementation of a static message reader board. This electronic board, which can be updated remotely using an app, offers several advantages.

Safety is a primary concern. As the use of the commons increases, so does the importance of effective communication. The current reader board is often difficult to read due to rain and its location on a steep incline, posing a potential safety hazard.

The city offers a service to renters to ensure the safety of both city staff and renters. This service involves working with multiple renters to craft and post a message, which requires a significant investment of staff time.

This method can be utilized to share time-sensitive and essential safety messages concerning both the state of the roads and the weather.

2. **City Hall Sign-** The City Hall is currently an unidentifiable building from the road and needs to be recognized as City Hall.
3. **Trolley Grant-** In August 2023, following substantial community engagement and feedback on the advantages and disadvantages of implementing a trolley system in Yachats, the City Council approved applications from the Chamber and the City for \$100,000 Travel Oregon grants. While the Chamber successfully secured their grant, unfortunately, the City's application was not approved.

The City has identified a US Department of Transportation grant that meets this project's eligibility requirements. Notably, the application for the reimbursable grant is due in February, with an approximate funding range of \$1-25 million.

This substantial funding presents an opportunity to consider adopting fully electric trolleys. This may involve procuring two trolleys as a backup, enhancing route efficiency. Moreover, all operational costs associated with these trolleys could be covered for several years.

4. **February Work Session-** In February, the council should schedule a work session to establish annual goals and objectives and provide training on implementing council-issued iPads. Additionally, a review of the city's electronics policy will be conducted during this session.
 5. **CIP Projects-** Reports from Rick, Dave & Neal
-

FISCAL IMPACT:

1. The Commons reader board bid is \$30k
 2. The City Hall sign has a bid for just under \$10k, and it was identified that the CIP for Masterplan Project Implementations could be used for these purchases.
 3. Staff time or hired contractor for the application process after review of capacity.
-

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability
 - b. Deliver efficient, effective, transparent municipal services - Signs
 - c. Provide safe access to and use of city infrastructure, trails, and parks- Signs
 - d. Environmentally responsible in all that we do - Trolley
 - e. Effectively manage and plan for the city's financial needs
 - f. Synchronize and update city policies and administrative rules.
-

RECOMMENDATION:

1. The city manager recommends the council's agreement to continue moving forward with purchasing and installing an electronic reader board with a non-scrolling message at the commons.
 2. The city manager recommends the council's agreement to continue moving forward with purchasing and installing a City Hall monument sign.
 3. The city manager recommends the council approve the city administration to apply for the US Department of Transportation grant for the Trolley System.
-

ALTERNATIVES:

1. Do not agree to move forward with purchasing and installing an electronic readerboard for community messages.
 2. Do not agree to purchase and install a City Hall monument sign.
 3. Do not approve city administration to apply for the US Department of Transportation grant.
-

PREPARED BY:

Bobbi Price
Yachats City Manager

ITEM'S ATTACHED: [City Hall Monument Sign Example](#) [Commons Reader Board Sign Example](#)



Date: January 3, 2024
To: Bobbi Price, City Manager
From: Public Works Department
Re: December 2023 Public Works Report

Rainfall at Yachats Public Works:

	2023	<u>Inches</u> 2022	2021	2020
December	18.17	10.58	15.17	9.43
Rain year to date:	66.69	57.64	64.81	60.67

Total water produced: **n/a gallons**

Total water accounted for: **n/a gallons** Water loss efficiency: **n/a %**

Total wastewater treated: **13,686,000 gallons**

The following is a list of what was done by Public Works staff in December 2023.

Streets:

- Installed Christmas lights and banners.
- Ordered and received parts to repair crosswalk flashing sign.

Storm Drainage:

- Storm drain inspections.
- Storm response and clean-up. Gender Creek and storm drainage.
- Storm drain cleaning.

Water Treatment Plant:

- Water systems operations.
- Plant Maintc.
- Reedy Creek clean.
- Repaired gutter.

- Assisted with water survey at the WTP.

Distribution Sys:

- Meter reading and rereads.
- Meter replacement and installation.
- Meter maintc.
- Completed Inflow & Infiltration inspection for annual report.
- Sump pump repair at the water connection with SWLCWPUD.
- Assisted with reservoir level indicator repairs.
- Water leak assistance in Overleaf.

Wastewater Treatment Plant:

- Wastewater systems operations.
- Plant maintc. & clean-up.
- Biosolids operations.
- Inflow & Infiltration issues during storm event.
- 1 load sent to Heard Farms.
- Generator failure at the WWTP. Rented a temporary replacement.
- WWTP PLC failure, replacement parts sourced and installed.

Collection Sys:

- Lift station inspections.
- Degrease lift stations.
- Riverside lift station junction box issues.
- Cleaned 240 feet of sewer main on Ocean View Drive.
- Lift station float cleaning.

Public Works:

- Shop maintc. and clean up.
- Fleet maintc. & repair.
- Equipment maintc. and repair.
- Multiple locates.
- Brush box handling.
- PW administration.
- Piles picked up for Trails crew.
- Garbage removal at the Commons.
- Responded to a partial power outage in town.
- Assisted Skate park contractor.
- Broken tree limb removal at City Hall.
- City Manager tour of the Yachats utility infrastructure.

CITY OF YACHATS, OR

STANDARD DRAWINGS INDEX

SHEET TITLE

GENERAL

101 ROW TREE CLEARANCE
 102 ROW UTILITY PLACEMENT - PLAN VIEW
 103 ROW UTILITY PLACEMENT - PROFILE VIEW
 104 STEEL BOLLARD DETAIL
 105 REMOVABLE STEEL BOLLARD
 106 ROW CLEAR VISION TRIANGLE
 107 TREE FRAME AND GRATE DETAIL
 108 ROW TREE PLANTING DETAIL
 109 TYPICAL UTILITY EASEMENT
 110 PIPE COVER STANDARDS

SANITARY SEWER

201 TRENCH BACKFILL
 202 STREET CUT T-PATCH
 203 48" STANDARD MANHOLE BASE
 204 STANDARD MANHOLE
 205 INSIDE DROP MANHOLE
 206 SANITARY SEWER MANHOLE FRAME AND COVER
 207 MANHOLE FRAME GRADE ADJUSTMENT
 208 SEWER LATERAL AND CLEANOUT
 209 MANHOLE ABANDONMENT OR REMOVAL

WATER

300 WATER VALVE AND VALVE BOX DETAIL
 301 VALVE OPERATOR EXTENSION
 302 LIVE-TAP SADDLE AND VALVE ASSEMBLY
 303 JOINT RESTRAINTS
 304 THRUST BLOCKING
 305 TYPICAL 5/8"-3/4" WATER METER ASSEMBLY
 306 2" WATER METER ASSEMBLY
 307 3" AND LARGER WATER METER ASSEMBLY
 308 2" BLOW-OFF ASSEMBLY
 309 4"+ BLOW-OFF ASSEMBLY
 310 STANDARD FIRE HYDRANT ASSEMBLY
 311 VALVE LOCATIONS AND SPACING
 312 2" COMBINATION AIR-VAC RELEASE ASSEMBLY

STORM SEWER

401 CURBSIDE INLET CATCH BASIN
 402 BEHIND CURB INLET CATCH BASIN
 403 BEHIND CURB INLET TOPS
 405 AREA DRAIN INLET
 406 BEEHIVE INLET STRUCTURE
 407 MANHOLE CURB INLET
 408 STORMWATER MANHOLE COVER AND FRAME

SHEET TITLE

409 STORMWATER QUALITY MANHOLE
 410 OVERFLOW CONTROL STRUCTURE
 411 OVERFLOW ORIFICE PLATE ASSEMBLY
 412 INFILTRATION/ FILTRATION BASIN
 413 LID DESIGN GUIDANCE
 414 LID SIZING CRITERIA
 415 R.O.W. NO-PKG INFILTRATION/ FILTRATION BASIN
 416 R.O.W. W/PKG INFILTRATION/ FILTRATION BASIN
 417 INFILTRATION/ FILTRATION X-SECTIONS
 418 VEGETATED FILTER STRIP

STREETS

501 CURB DETAILS
 502 CONCRETE VALLEY GUTTER
 503 EXTRUDED CURB
 504 STANDARD SIDEWALK DETAILS
 505 SIDEWALK TYPE
 506 ADA RAMP LOCATION
 507 ADA RAMP, TYPE "A" SIDEWALK
 508 ADA RAMP, TYPE "B" SIDEWALK
 509 TYPICAL DRIVEWAY APRON
 510 DROP PANEL DRIVEWAY APRON
 511 COMM./IND. DRIVEWAY REINFORCEMENT
 512 PONY AND WEDGE WALLS
 513 CUL-DE-SAC STANDARDS
 514 TYPICAL CITY STREET SECTION
 515 LOCAL STREET SIGN INSTALLATION
 516 STRUCTURAL STREET SECTIONS
 517 APPROVED FIRE DEPARTMENT TURN-AROUNDS

EROSION AND SEDIMENT CONTROL

601 ROCK CONSTRUCTION ENTRANCE
 602 SILT/SEDIMENT FENCE
 603 STRAW BALE BARRIER
 604 FIELD DRAIN INLET PROTECTION
 605 OULET PROTECTION
 606 SURFACE ROUGHENING/ CAT TRACKING



City of Yachats

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 Fax: 541-547-3063
 Email: cityhall@yachatsmail.org

STANDARD DRAWINGS INDEX

SCALE:

N.T.S.

REV. DATE:

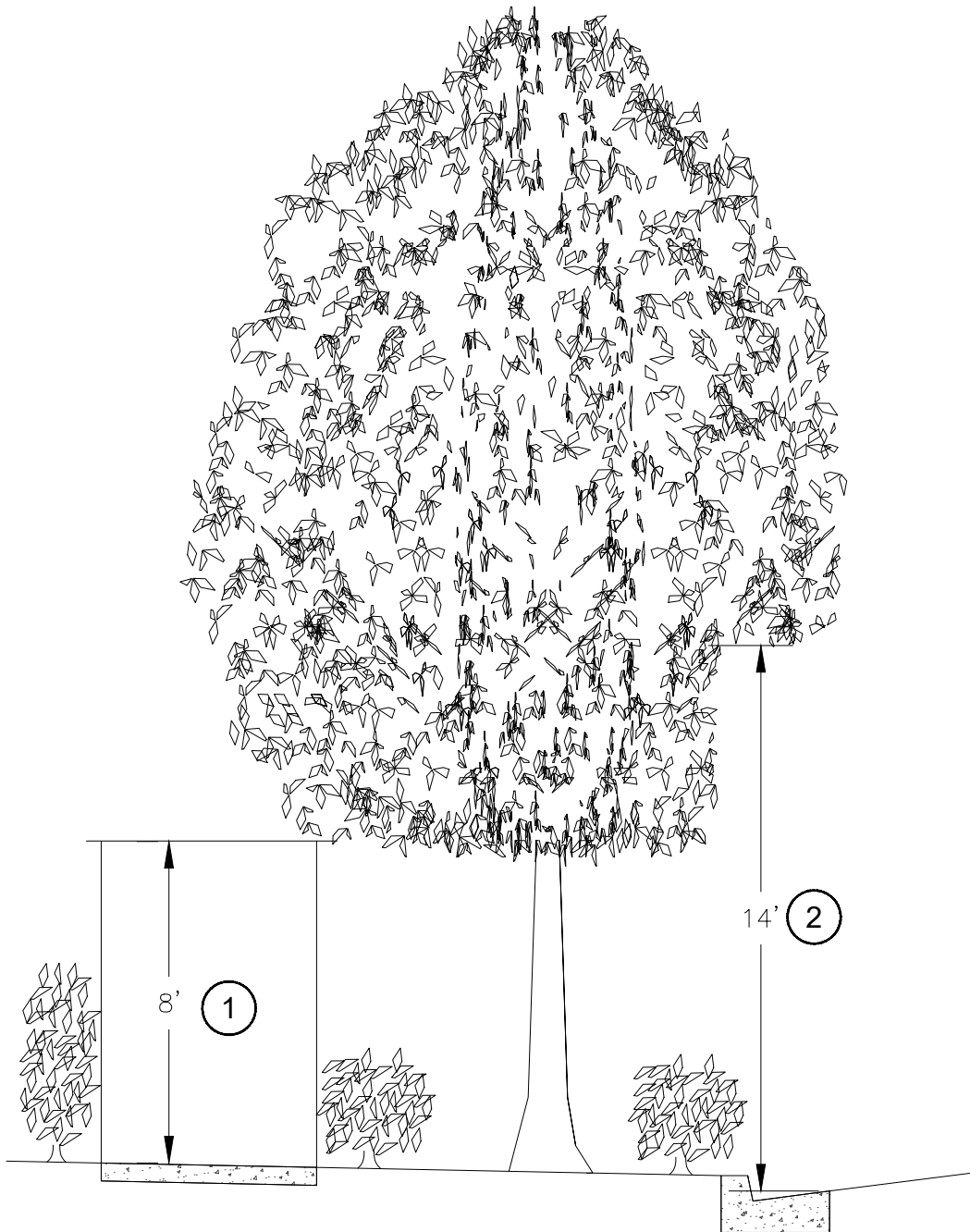
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

100



NOTES:

①

MAINTAIN 8' CLEARANCE BETWEEN SIDEWALK AND TREE LIMBS. NO OBSTRUCTIONS MAY PROTRUDE INTO SIDEWALK TRAVEL AREA.

②

MAINTAIN 14' OF CLEARANCE BETWEEN STREET GRADE AND TREE LIMBS.



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ROW TREE CLEARANCE

SCALE:

N.T.S.

REV. DATE:

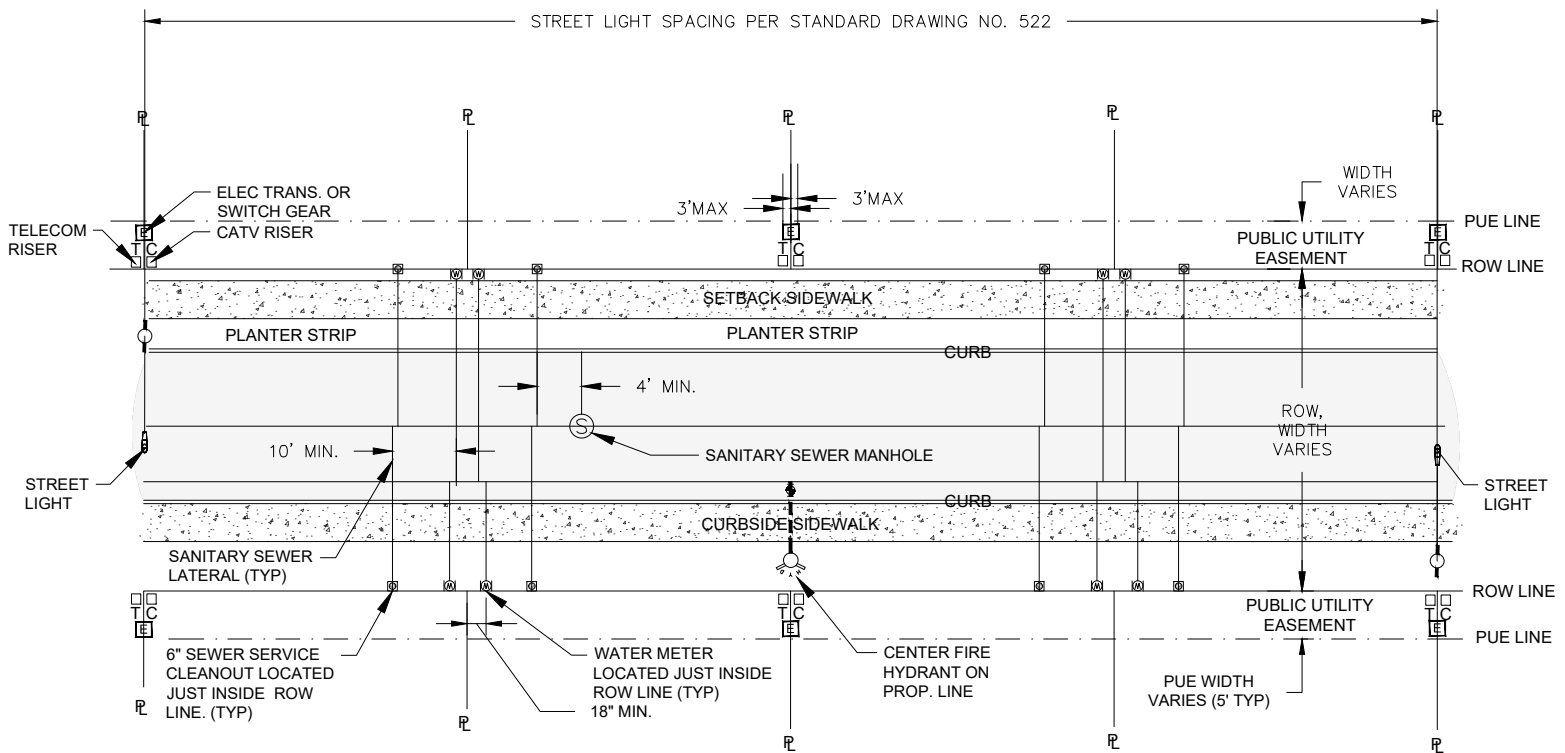
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

101



NOTES:

1. ALL ABOVE GROUND FIXTURES ARE TO BE ALIGNED WITH PROPERTY LINES WITHIN THE TOLERANCES AS SHOWN
2. VARIATION FROM THIS STANDARD ALLOWED ONLY WITH THE APPROVAL OF THE CITY ENGINEER
3. THE LOCATION OF UNDERGROUND UTILITIES IS SHOWN ON STANDARD DRAWING 103, UTILITIES PLAN



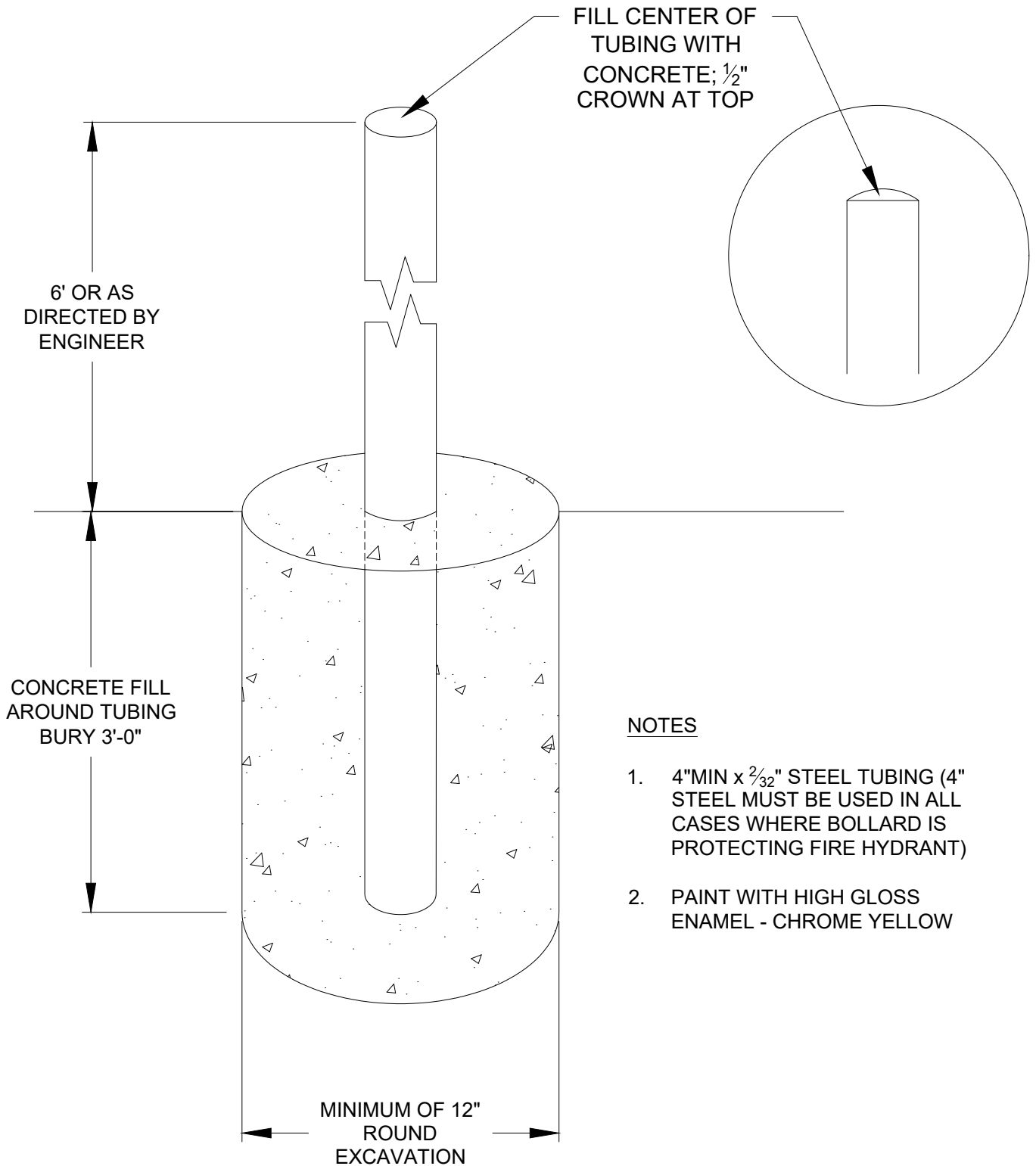
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ROW UTILITY PLACEMENT - PLAN VIEW

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	102



NOTES

1. 4"MIN x $\frac{2}{32}$ " STEEL TUBING (4" STEEL MUST BE USED IN ALL CASES WHERE BOLLARD IS PROTECTING FIRE HYDRANT)
2. PAINT WITH HIGH GLOSS ENAMEL - CHROME YELLOW



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STEEL BOLLARD DETAIL

SCALE:

N.T.S.

REV. DATE:

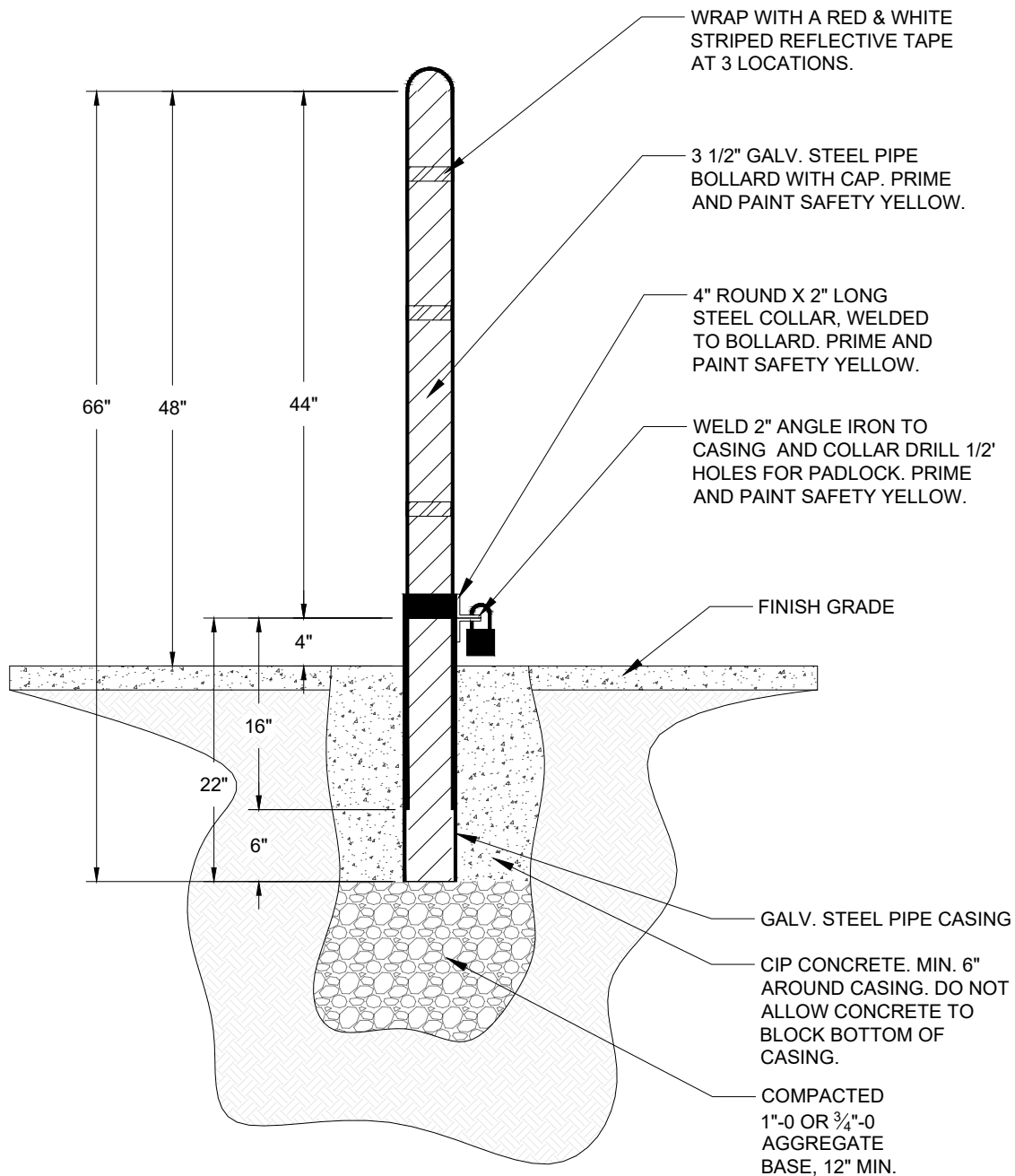
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

104



STEEL PIPE SPECIFICATIONS

ASTM A-53 STEEL, SCHEDULE 40, HOT DIPPED ZINC-COATED GALVANIZED, WELDED, SEAMLESS

- | | | | |
|-------------------------|---------------|---------------|--------------------|
| • 4-INCH STEEL PIPE | O.D. = 4.500" | I.D. = 4.026 | THICKNESS = 0.237 |
| • 3 1/2-INCH STEEL PIPE | O.D. = 4.000" | I.D. = 3.549" | THICKNESS = 0.226" |



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REMOVABLE STEEL BOLLARD

SCALE:

N.T.S.

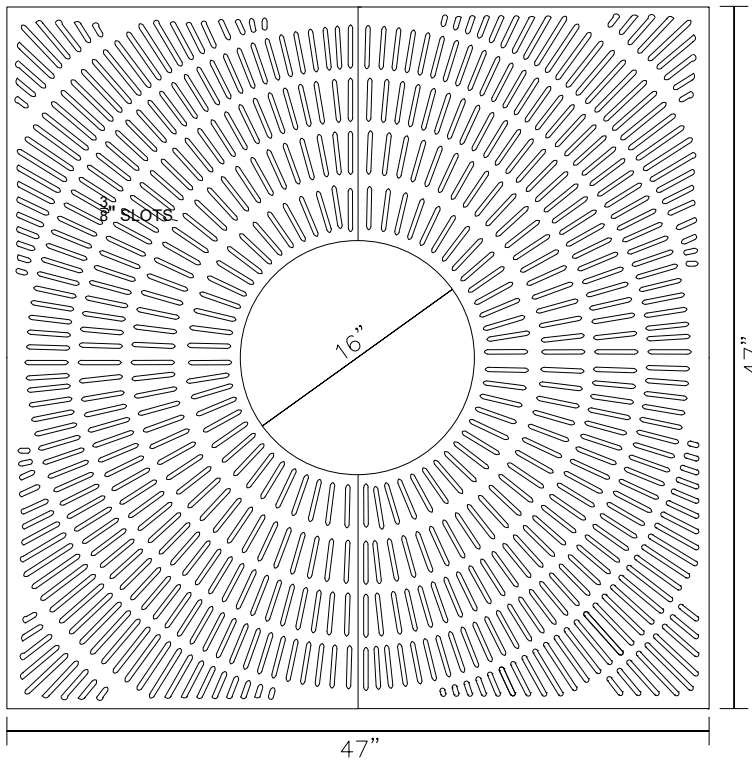
REV. DATE:

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TEG

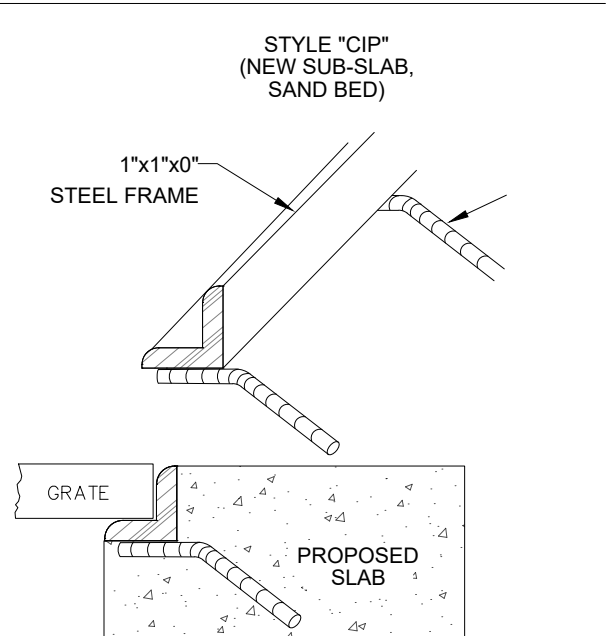
STANDARD
DRAWING:

105

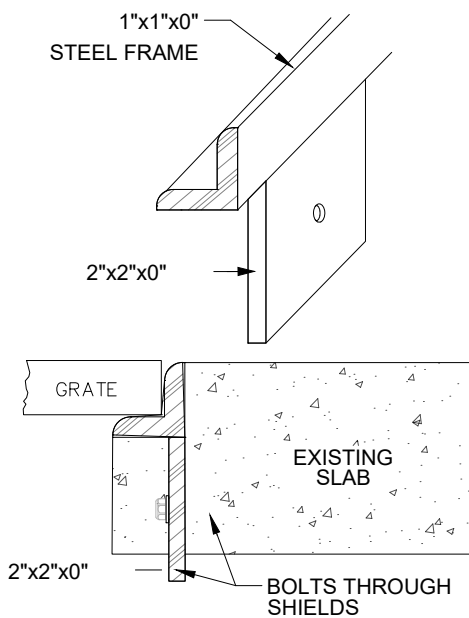


48" "STA" TREE GRATE:

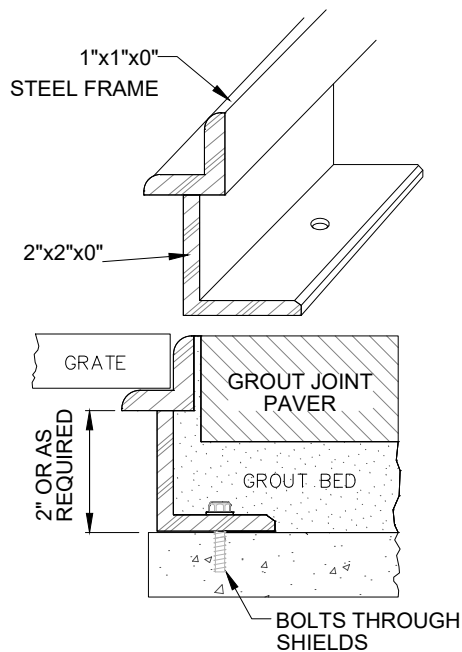
- ADA APPROVED, TWO PIECE SET
- DUCTILE CAST IRON ASTM, A536, CL80-55-06
- APPROXIMATE WEIGHT 226 lbs. PER SET
- OLYMPIC FOUNDRY PART NO. 80-2190 (OR EQUIVALENT)



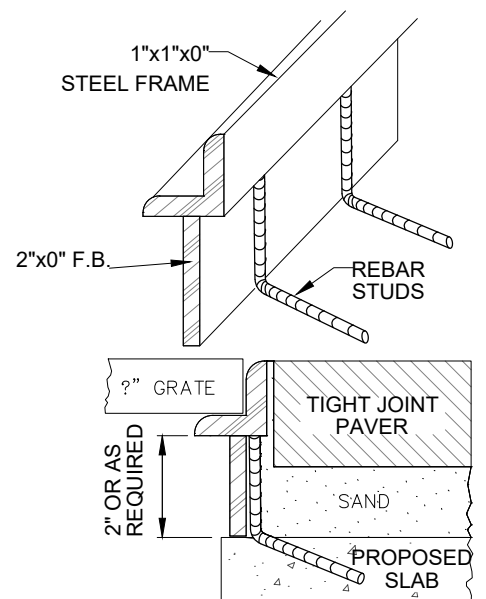
**STYLE "RF"
(EXTG. SLAB)**



**STYLE "AP"
(EXTG. SUB-SLAB,
GROUT BED)**



**STYLE "CIP"
(NEW SUB-SLAB,
SAND BED)**



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TREE FRAME AND GRATE DETAIL

SCALE:

N.T.S.

REV. DATE:

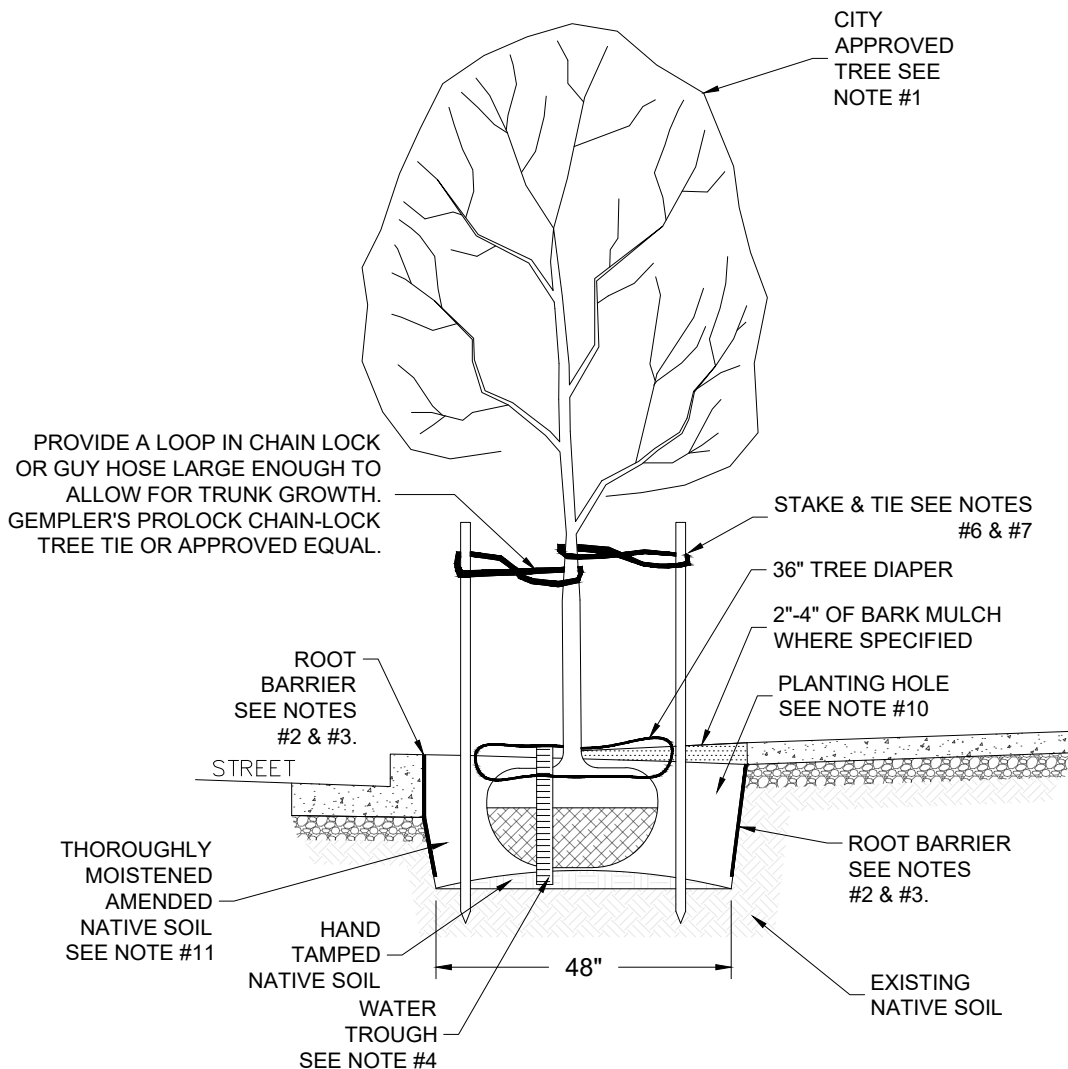
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

107



NOTES:

1. REFER TO THE CITY PLANNING DEPARTMENT APPROVED R.O.W. TREE PLANTING LIST.
2. ROOT BARRIER REQUIRED WHEN HARDSCAPE OR STRUCTURE IS LOCATED WITHIN A 6' RADIUS FROM CENTER OF TREE. ROOT BARRIER TO BE 18" DEEP AND SHALL BE INSTALLED ALONG ALL BOUNDARIES WITH HARDSCAPE e.g. SIDEWALK & CURB (SEE NOTE 3 FOR ADDITIONAL REQUIREMENTS).
3. SQUARE PANEL OR CIRCULAR PANEL APPLICATION OF ROOT BARRIER PERMITTED. ROOT BARRIER TO EXTEND A MINIMUM OF 24" PAST CENTER OF TREE IN ALL DIRECTIONS OR HAVE A MINIMUM RADIUS OF 24" FOR CIRCULAR APPLICATION. USE CENTURY CP-SERIES ROOTBARRIER PANELS WITH INTERLOCKING JOINTS OR NDS RP SERIES ROOT BARRIER PANELS WITH INTERLOCKING JOINTS. ROOT BARRIERS SHALL BE CONTINUOUS WITH NO BREAKS. ALL ROOT BARRIER INSTALLATIONS SHALL BE IN CONFORMANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. OPPOSITE TREE STAKES, PROVIDE TWO, 3" DIAMETER HDPE PERFORATED PIPE WATERING TROUGHS, FILLED WITH CLEAN PEA GRAVEL.
5. REMOVE NURSERY STAKES & INSTALL 2" DIAMETER TREATED STAKES, SET OUTSIDE ROOTBALL AND DRIVE A MINIMUM OF 12" INTO UNDISTURBED SOIL BELOW PLANTING HOLE. TRIM STAKE 6" ABOVE HIGHEST TREE TIE TO AVOID INTERFERENCE WITH CANOPY.
6. FLEXIBLE NON-ABRASIVE TREE TIE SECURED TO STAKE WITH A NAIL. PLACE TIES 6" ABOVE THE LOWEST POINT ON THE TRUNK WHERE IT CAN BE HELD SUCH THAT THE TOP OF THE TREE SPRINGS BACK TO THE UPRIGHT POSITION WHEN BENT OR DEFLECTED.
7. WHEN TREE GRATES ARE USED, SECURE TIE STRAPS TO THE TREE GRATE, NO STAKES ARE REQUIRED.
8. SET CROWN OF ROOTBALL 1-½" ABOVE FINISHED GRADE.
9. WHEN A TREE GRATE IS USED, SET THE CROWN OF ROOTBALL 12" BELOW FINISH GRADE OF THE TREE GRATE.
10. PLANTING HOLE TO BE TWICE THE DIAMETER OF ROOTBALL, WITH ROOTBALL RESTING ON FIRM SOIL. SCARIFY SIDES OF PLANTING HOLE.
11. BACKFILL WITH A MIXTURE OF ⅔ NATIVE SOIL AND ⅓ ORGANIC COMPOST. AREAS WITH POOR OR HEAVILY COMPACTED SOIL MAY REQUIRE ADDITIONAL AMENDMENT.



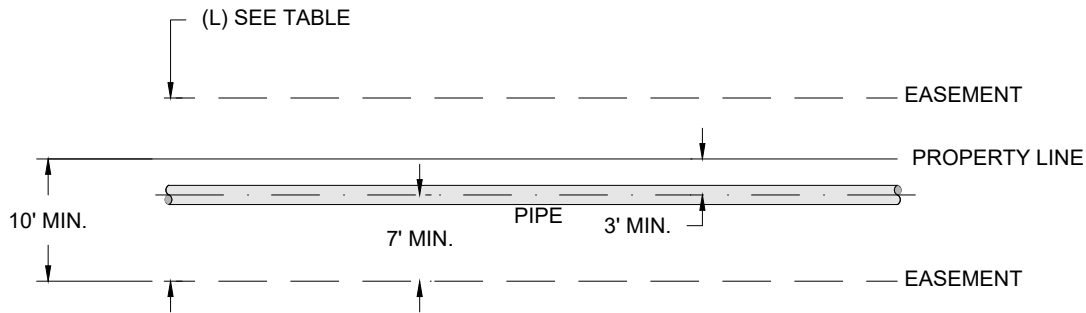
City of Yachats

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ROW TREE PLANTING DETAIL

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	108



NOTES:

1. MAINLINES SHALL BE PLACED IN PUBLIC RIGHT OF WAY & MAY BE PLACED IN EASEMENTS WHEN NECESSARY AND APPROVED BY THE CITY ENGINEER.
2. FOR MAINLINES PLACED IN EASEMENTS LOCATED OTHER THAN ALONG A PROPERTY LINE, THE MAINLINE SHALL BE PLACED IN CENTER OF THE EASEMENT.
3. EASEMENT WIDTHS SHALL ACCOMMODATE A MINIMUM OF A 1:1 SLOPE FROM THE CENTER OF PIPE TO THE EDGE OF TRENCH AT GROUND LEVEL. FOR EXAMPLE, A 20' DEEP PIPE WOULD REQUIRE A 40' WIDE EASEMENT.
4. OPEN CHANNELS SHALL HAVE EASEMENT WIDTHS:
 - SUFFICIENT TO CONTAIN THE DETAINED WATER FROM THE DESIGN STORM, OR;
 - 15' FROM THE WATERWAY CENTERLINE, OR;
 - 10' FROM THE TOP OF THE RECOGNIZED BANK, WHICHEVER IS GREATER.
 A 15' WIDE ACCESS SHALL BE PROVIDED ON BOTH SIDES OF THE CHANNEL FOR CHANNEL WIDTHS GREATER THAN 14' AT THE TOP OF THE RECOGNIZED BANK.
5. EASEMENT LOCATIONS FOR PUBLIC UTILITIES SERVING A PLANNED UNIT DEVELOPMENT, APARTMENT COMPLEX, OR COMMERCIAL/ INDUSTRIAL DEVELOPMENT SHALL BE IN PARKING LOTS, PRIVATE DRIVES, OR SIMILAR OPEN AREAS WHICH WILL PERMIT UNOBSTRUCTED VEHICLE ACCESS FOR MAINTENANCE.
5. ALL EASEMENTS MUST BE REVIEWED AND APPROVED BY THE CITY PRIOR TO RECORDING.
6. MULTIPLE PIPES IN A COMMON EASEMENT DETERMINED ON A CASE BY CASE BASIS.

MINIMUM EASEMENT WIDTH	
(L) EASEMENT WIDTH (ft.)	PIPE SIZE (in.)
15	18" OR LESS
20	OVER 18"
LARGER	WHEN REQUIRED



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**TYPICAL
UTILITY
EASEMENT**

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

109

NOTES:

1. MINIMUM PIPE COVER TO FINISH GRADE SHALL BE ACCORDING TO TABLE 1 BELOW OR PER THE MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS GREATER.
2. A LESSER DESIGN COVER MAY BE CONSIDERED PER TABLE 2 BELOW AS CIRCUMSTANCES DICTATE AND AS APPROVED BY THE CITY ENGINEER.
3. PIPE COVER SHALL BE DESIGNED TO PROTECT THE PIPE FROM DAMAGE BASED UPON THE DESIGN LOAD. OVERHEAD LOADS MAY NECESSITATE GREATER PIPE COVER OR MAY REQUIRE A CHANGE IN PIPE MATERIAL.
4. PIPE COVER SHALL BE MEASURED FROM FINISHED GRADE TO THE UPPER MOST EXTERIOR SURFACE ELEVATION OF THE PIPE.
5. A PIPE UNDER A ROADWAY SHALL NOT INTRUDE INTO THE STREET SECTION BASE COURSE AND SHALL BE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION LOADS AND TRAFFIC LOADS.

TABLE 1: MINIMUM PIPE COVER

WATER	30 (in.)
STORMWATER	36 (in.)
WASTEWATER	36 (in.)

TABLE 2: MINIMUM PIPE COVER*

TYPE OF PIPE	PAVED AREAS (in.)	UNPAVED AREAS (in.)
PVC C900	24	12
PVC 3034 SDR35	36	24
DUCTILE IRON	18	6
*RCP CLASS II	30	18
*RCP CLASS IV	24	12
*RCP CLASS V	18	6

* WHEN APPROVED BY CITY ENGINEER



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Email: cityhall@yachatsmail.org

PIPE COVER STANDARDS

SCALE:

N.T.S.

REV. DATE:

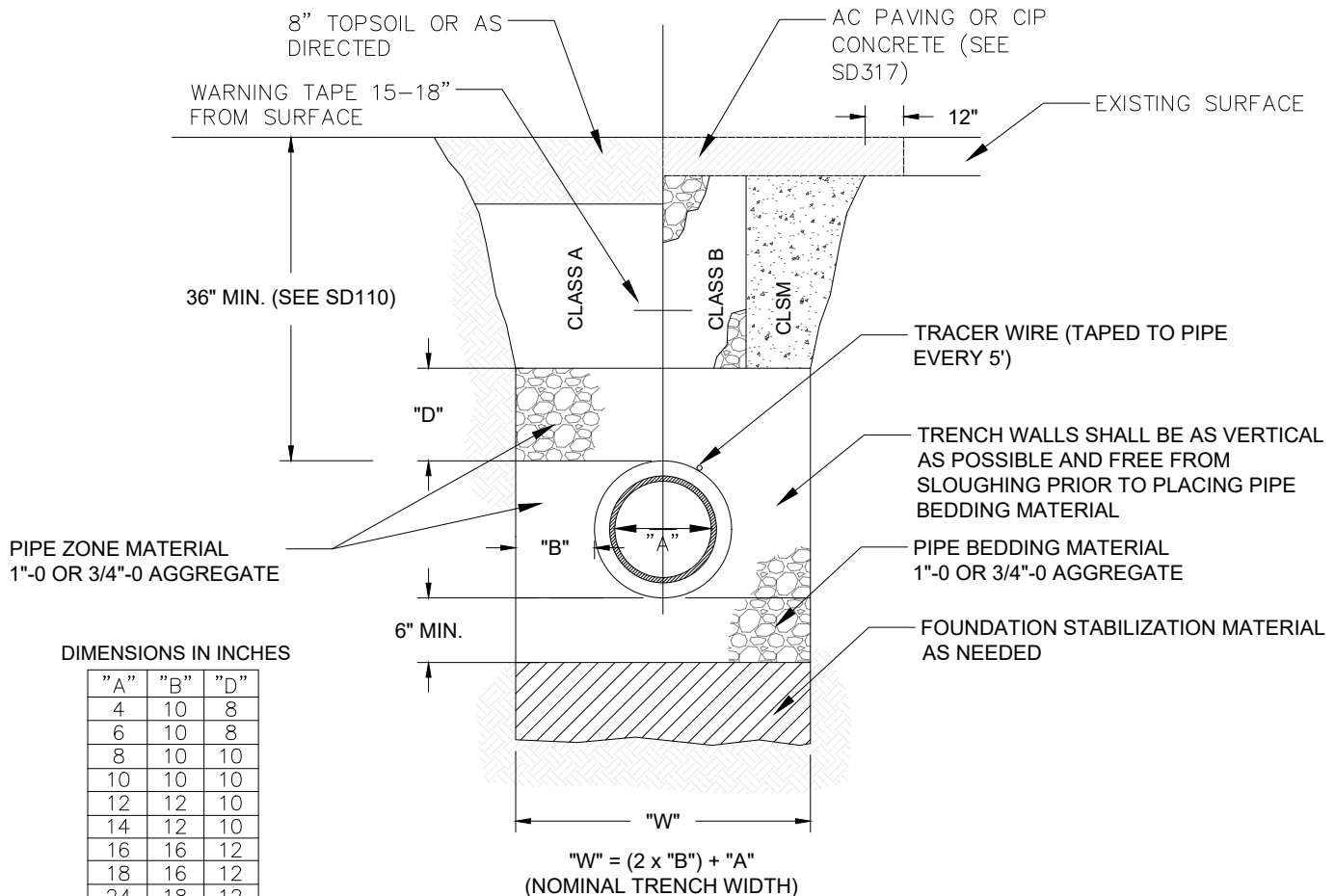
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

110



NOTES:

1. TRENCH EXCAVATION SHALL BE CONDUCTED IN A SAFE MANNER WITH ALL NECESSARY BRACING AND SHORING PROVIDED FOR COMPLIANCE WITH OSHA.
2. FOUNDATION STABILIZATION SHALL BE PROVIDED WHEN MATERIAL AT BOTTOM OF TRENCH IS UNSUITABLE AS DETERMINED BY THE ENGINEER.
3. CLASS B BACKFILL REQUIRED WITHIN THE PIPE ZONE. ABOVE THE PIPE ZONE OTHER BACKFILL CLASSES MAY BE USED WITH THE APPROVAL OF THE CITY ENGINEER. BACKFILL AND DENSITY REQUIREMENTS SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT VERSION, SECTION 00405.
4. TRACER WIRE IS REQUIRED FOR ALL PIPELINES. WIRE SHALL BE 14 GA. MINIMUM SOLID COPPER WIRE WITH BLUE OR GREEN 30 MIL THICK HDPE INSULATION RATED FOR DIRECT BURY. USE APPROVED WATERPROOF SPLICE AT ALL CONNECTIONS.
5. WARNING TAPE SHALL BE 6" WIDE, 4 MIL THICK TAPE; READING, AS APPROPRIATE : "CAUTION SEWER LINE BURIED BELOW"; "CAUTION WATER LINE BURIED BELOW"; "CAUTION STORM LINE BURIED BELOW"; TAPE COLOR AS APPROPRIATE FOR INSTALLED SERVICE.



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TRENCH BACKFILL

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

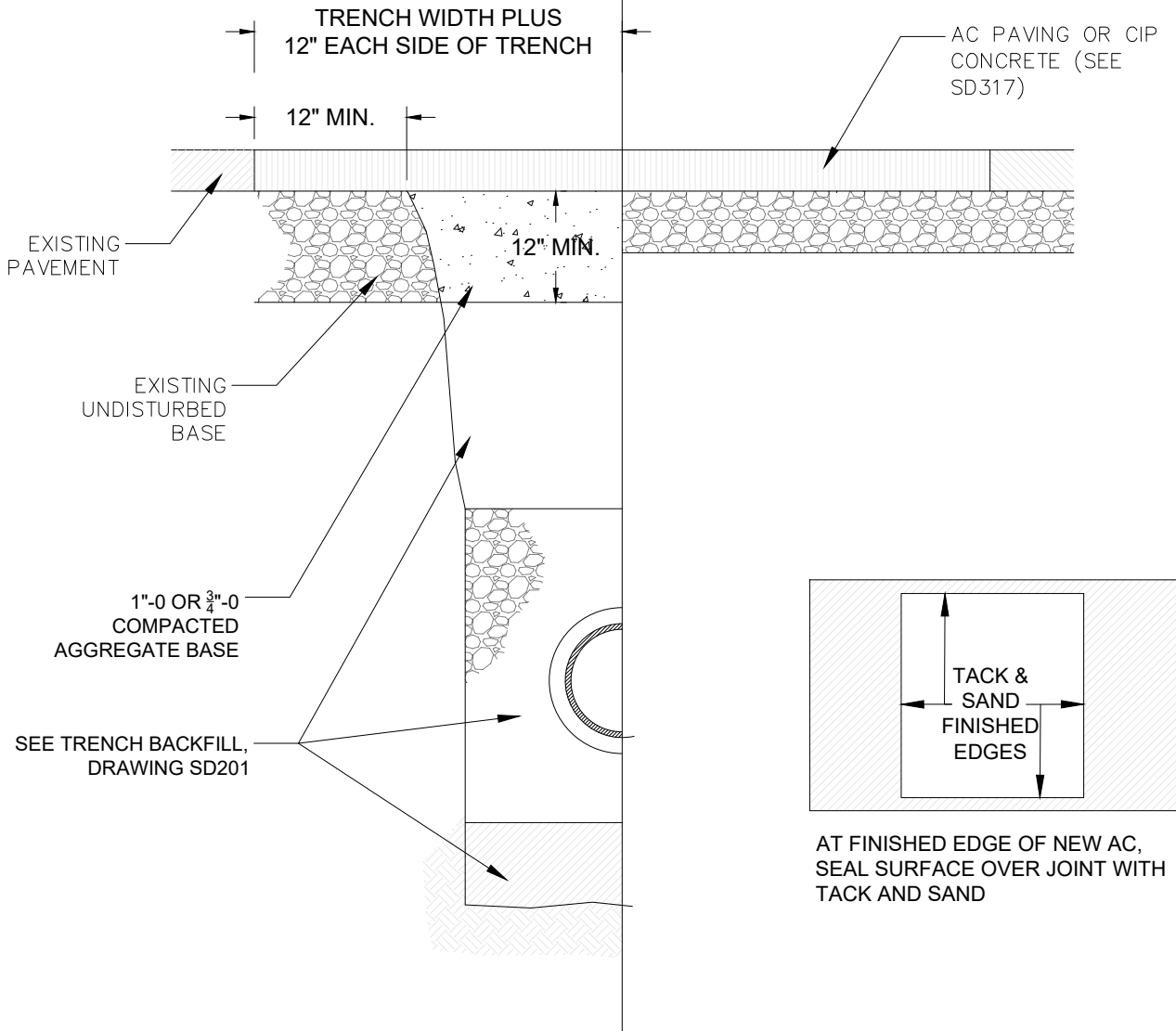
TEG

STANDARD
DRAWING:

201

TRENCH RESURFACING

STREET REPLACEMENT



NOTES:

1. AGGREGATE BASE SHALL BE REVIEWED BY CITY BEFORE PLACING ASPHALT.
2. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT IMMEDIATELY PRIOR TO REPAVING. BROKEN EDGES ARE NOT ALLOWED.
3. COMPLY WITH THE REQUIREMENTS OF AGENCY HAVING JURISDICTION OVER THE ROAD IN WHICH THE STREET CUT OCCURS.
4. SAND AND TACK SEAL ALL AC COLD JOINTS.



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STREET CUT T-PATCH

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

202

AT SPRING LINE OF
PIPE EXTEND
CHANNEL UP TO
CROWN LINE ON 12:1
BATTER (TYP)

BENCH
SLOPE 12:1
(TYP)

FLEXIBLE
RUBBER
BOOT.
KOR-N-SEAL
OR EQUAL.

BASE
EXTENSION AS
REQ'D TO
PREVENT
UPLIFT (TYP)

6" MIN.
8" MIN.

PRECAST BASE

1"-0 OR 3/4"-0
COMPACTED
AGGREGATE BASE
(TYP)

UNDISTURBED
EARTH OR
COMPACT SELECT
MATERIAL AS
REQ'D

RAM-NEK JOINT SEAL (TYP)

6" MIN.

RUBBER
WATERSTOP
GROUT RING
PRESS-SEAL
GASKET OR
EQUAL AS
APPROVED.

4" MIN.

6" MIN.

8" MIN.

#4 HOOP AND #4
@ 12" E.W. #5
BARS WHEN
DEPTH EXCEEDS
15'

1"-0 OR 3/4"-0
COMPACTED
AGGREGATE BASE
(TYP)

CAST-IN-PLACE BASE

NOTES:

1. SEE STANDARD MANHOLE DRAWING Sd204 FOR TRACER WIRE REQUIREMENT.
2. PRECAST OR CAST-IN-PLACE BASE AT CONTRACTOR'S OPTION OR AS DIRECTED.
3. A MIX DESIGN SHALL BE SUBMITTED TO CITY PRIOR TO SCHEDULING POUR.
4. STRUCTURAL CONCRETE SHALL CONFORM WITH THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
5. MIN. 0.1 FT. INVERT DROP ACROSS MANHOLE.
6. MANHOLE BASE SHALL BE CLEAN OF DIRT AND DEBRIS PRIOR TO CHANNELING BASE.
7. PIPE PENETRATIONS SHALL NOT CROSS THROUGH BARREL SECTION JOINTS.
8. BASES SHALL BE DESIGNED TO PREVENT BUOYANCY UPLIFT.

CONTOUR TO PROVIDE
SMOOTH CHANNELS.
SHAPE TO AVOID SOLIDS
DEPOSITION AND
PREVENT HEAD-ON
FLOWS

SLOPE BENCH
TO DRAIN

15" TO 18"

90° OR GREATER BETWEEN
INCOMING AND OUTGOING PIPES.
12" BETWEEN INCOMING PIPE
PENETRATIONS AS MEASURED
AT INNER MANHOLE WALL.

CHANNEL TO MATCH
BOTTOM HALF OF
PIPE

90°



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48" STANDARD MANHOLE BASE

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

203

CAST IRON (H-20 RATED) MANHOLE COVER AND FRAME SET FRAME IN NON-SHRINK GROUT, SEE SD209. MAX 12" OF RISER RINGS.

14 GA. COPPER TRACER WIRE WITH GREEN 30 MIL THICK HDPE INSULATION

FINISH GRADE

PRECAST REINFORCED GRADE RINGS, 2" MIN., 12" MAX. EACH SET IN NON-SHRINK GROUT.

PRECAST ECCENTRIC CONE 36" TALL. SEE NOTE 2.

SEAL KEYED JOINTS WITH PRE-FORMED SEAL (RAM-NEK) OR RUBBER RING GASKET BY MFR. (TYP. ALL JOINTS). SEAL SHALL BE WATERTIGHT

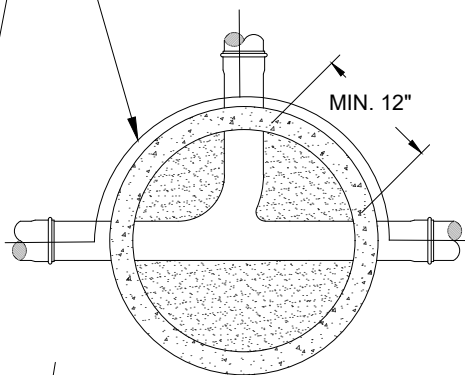
2' MIN. CL-B BACKFILL TO GRADE. SEE NOTE 7.

WIDTH VARIES DEPENDING UPON PIPE SIZE, INCOMING ANGLE, AND QUANTITY

SIDEWALL THICKNESS VARIES DEPENDING UPON MH SIZE

SEE MANHOLE BASE STANDARD DRAWING SD203

ALL TRACER WIRE SHALL CONNECT AT ONE SPLICE. DIRECT BURY WIRE FROM INDIVIDUAL PIPES TO ONE SPLICE (3M DBR/K OR EQUAL) AT MANHOLE BASE THEN UP SIDE OF MANHOLE AND INSTALL IN GROUT RING UNDER CASTING.



15"-18" TYP.

12" MIN. DEPTH, 1'-0" OR $\frac{3}{4}$ '-0" COMPACTED AGGREGATE BASE

NOTES:

1. ALL PRECAST MANHOLE SECTIONS SHALL MEET ASTM C-478, AND 4000 PSI CONCRETE.
2. FLAT-TOP MANHOLE REQUIRED WHEN DEPTH FROM FINISH GRADE TO INVERT IS LESS THAN 6 FEET.
3. STEPS ARE NOT ALLOWED.
4. INTERIOR DROPS EXCEEDING 24" REQUIRE INSIDE DROP. SEE DRAWING SD206.
5. LARGER INLET PIPES THAN 24" WILL REQUIRE AN OVERSIZE MANHOLE. COORDINATE WITH MANUFACTURER FOR MANHOLE SIZING.
6. DE-WATER EXCAVATION AS NEEDED. AGGREGATE BASE, MANHOLE BASE, AND MANHOLE SHALL BE SET IN DRY CONDITIONS.
7. BACKFILL MANHOLE WITH CLASS B BACKFILL TO GRADE WITHIN 2' MIN. OF MANHOLE EDGE. BACKFILL AND DENSITY REQUIREMENTS SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00405.
8. MANHOLES SHALL BE TESTED PER OREGON STANDARD SPECIFICATIONS, CURRENT EDITION, SECTION 00470.71.b. SEE DESIGN SPECIFICATIONS FOR ADDITIONAL PERFORMANCE STANDARD TESTING.

WALL THICKNESS

PIPE SIZE	MANHOLE DIAMETER	WALL THICKNESS
6" -24"	48"	5"
24"-30"	60"	6"
36"-42"	72"	7"
48"-54"	84"	8"



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STANDARD MANHOLE

SCALE:

N.T.S.

REV. DATE:

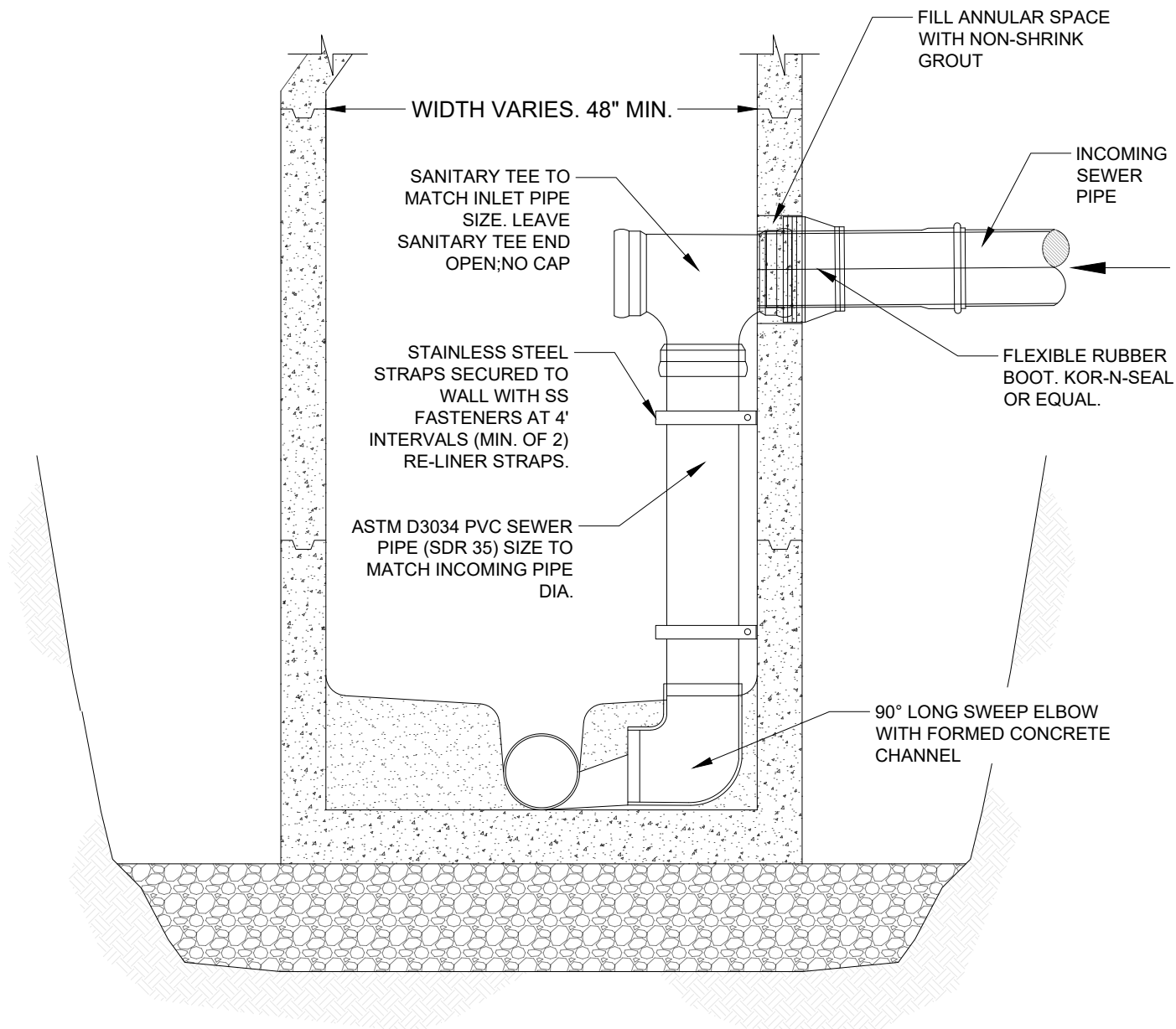
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APPROVED BY:

TEG

STANDARD
DRAWING:

204



NOTES:

1. DROP MANHOLES SHALL ONLY BE USED WITH PRIOR APPROVAL FROM CITY ENGINEER.
2. EXTEND INLET SEWER PIPE INTO MANHOLE FAR ENOUGH TO ALLOW SECURE ATTACHMENT OF SANITARY TEE (DEPTH VARIES).
3. ONLY ONE DROP ASSEMBLY ALLOWED PER MANHOLE.
4. SEE STANDARD MANHOLE DRAWING SD204 FOR TYPICAL MANHOLE INSTALLATION DETAILS.



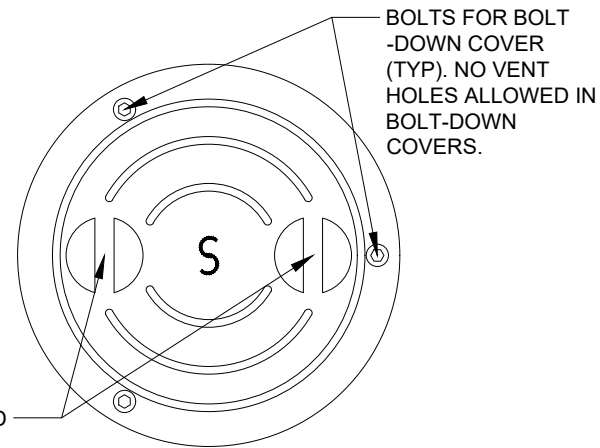
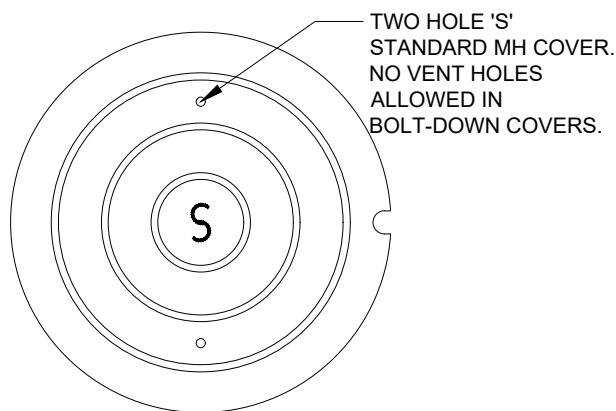
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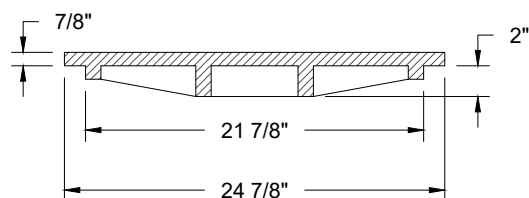
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INSIDE DROP MANHOLE

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	205



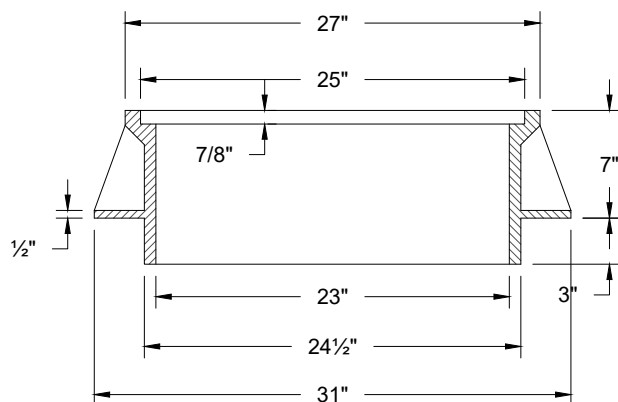
DEPRESSED
HANDLE



(OLYMPIC FOUNDRY MH26WT, OR APPROVED EQUAL)

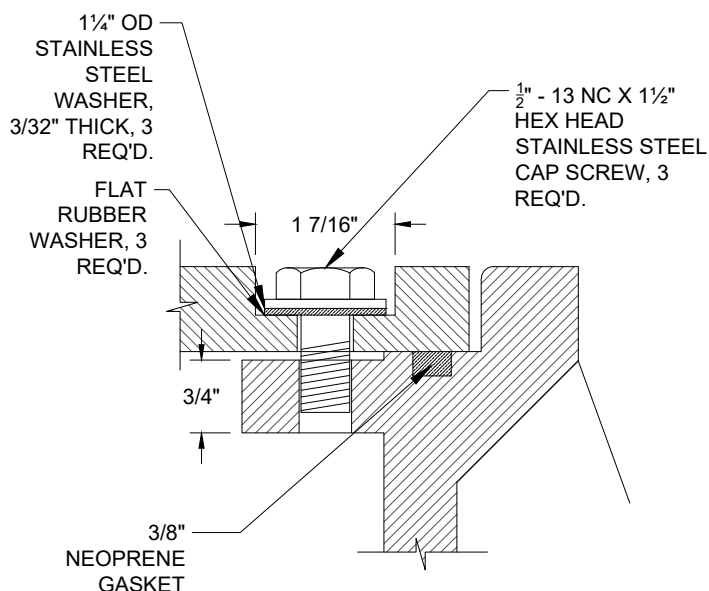
COVER (150 LBS)

(OLYMPIC FOUNDRY MH26A, OR APPROVED EQUAL)



FRAME (237 LBS)

(OLYMPIC FOUNDRY MH26A, OR APPROVED EQUAL)



STANDARD TWO-HOLE COVER DETAIL

BOLT DOWN COVER DETAIL (NO HOLES)

NOTE: LID AND FRAME DIMENSIONS THE SAME AS
STANDARD EXCEPT WHERE INDICATED ABOVE.

NOTE:

1. MANHOLE FRAMES AND COVER SHALL HAVE H-20 RATING
2. COVER AND FRAME SHALL BE CAST IRON, ASTM A-48 CLASS 30B
3. COVER AND FRAME TO HAVE TRUE BEARING ALL AROUND.
4. WATERPROOF/BOLT-DOWN COVER SHALL BE USED ONLY IN AREAS OF POTENTIAL SURCHARGE OR SURFACE FLOODING AND UPON PRIOR APPROVAL FROM CITY ENGINEER.



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SANITARY SEWER MANHOLE FRAME AND COVER

SCALE:

N.T.S.

REV. DATE:

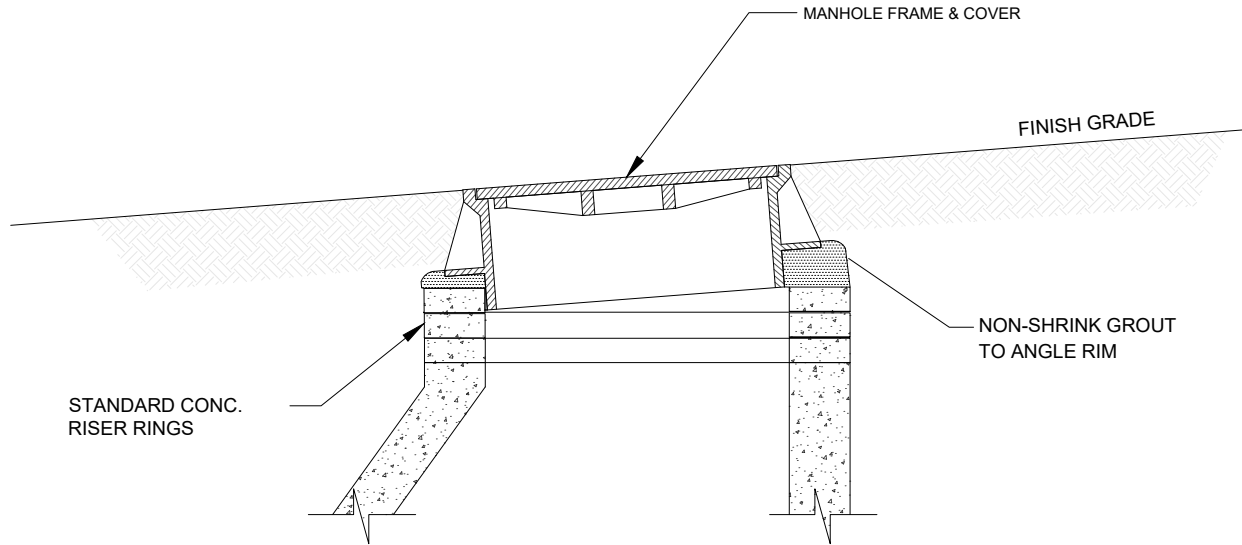
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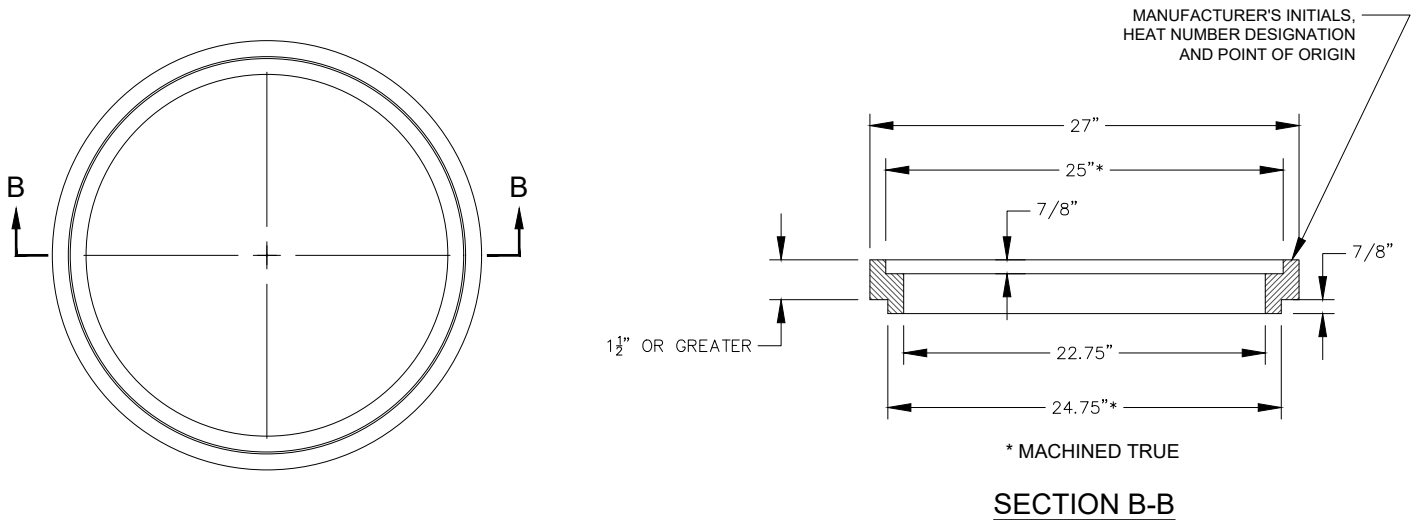
TEG

STANDARD
DRAWING:

206



NEW CONSTRUCTION MANHOLE GRADE ADJUSTMENT IN STREET



MANHOLE ADJUSTING RINGS FOR PAVEMENT RESURFACING

NOTE:

1. SEE STANDARD MANHOLE DRAWING S-200 FOR TRACER WIRE LAYOUT.
2. METAL ADJUSTMENT RINGS SHALL BE CAST IRON, ASTM A-48 CLASS 30B



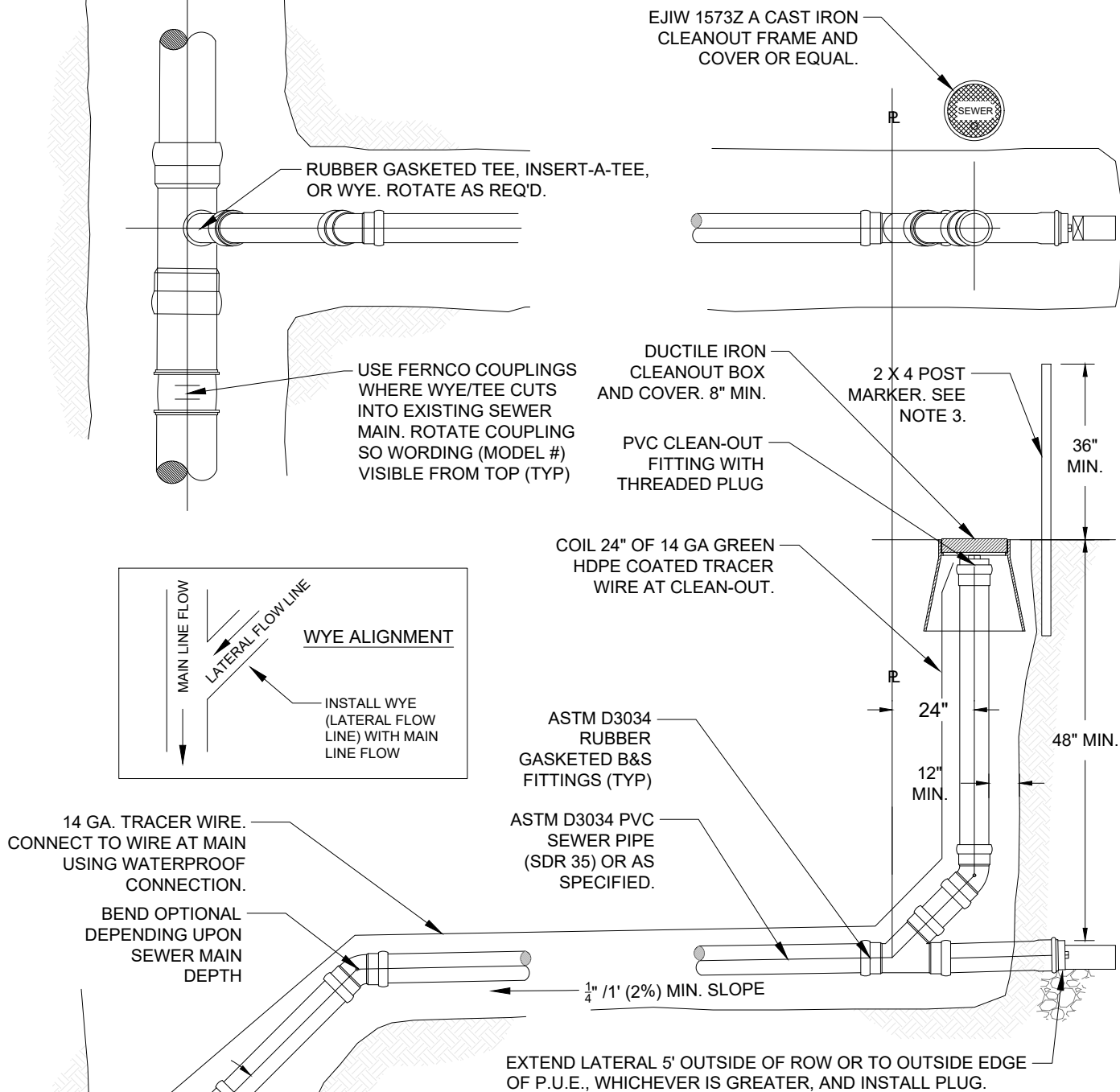
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MANHOLE FRAME GRADE ADJUSTMENT

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	207



NOTE:

1. CONTRACTORS MAY USE A WYE OR TEE ON NEW PIPE WORK UNLESS OTHERWISE SPECIFIED IN DRAWINGS.
2. SEE SD201 FOR PIPE BACKFILL REQUIREMENTS.
3. ALL CONNECTIONS TO CITY MAIN SHALL BE OBSERVED BY CITY. COORDINATE INSPECTION MIN. 48-HRS PRIOR TO CONNECTION.
4. WHEN LATERAL WILL BE CONNECTED TO PRIVATE SEWER AT LATER DATE, PLUG AS SHOWN; PROVIDE 2X4 POST MARKER AND BLOCKING. MARKER POST SHALL EXTEND 36" ABOVE FINISH GRADE AND SHALL BE LABELED WITH LOT NUMBER AND TOTAL LENGTH OF 2X4
5. CONNECTION TO SEWER LATERAL REQUIRES PLUMBING PERMIT THROUGH BUILDING DEPARTMENT.
6. CLEANOUTS MAY BE USED ON MAIN LINE TERMINATIONS WITH ADEQUATE DOWNSTREAM MANHOLE ACCESS ON SEWER MAINS 8" AND LESS. TERMINATIONS FOR MAIN LINES LARGER THAN 8" IN SIZE SHALL REQUIRE A MANHOLE.



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SEWER LATERAL AND CLEANOUT

SCALE:

N.T.S.

REV. DATE:

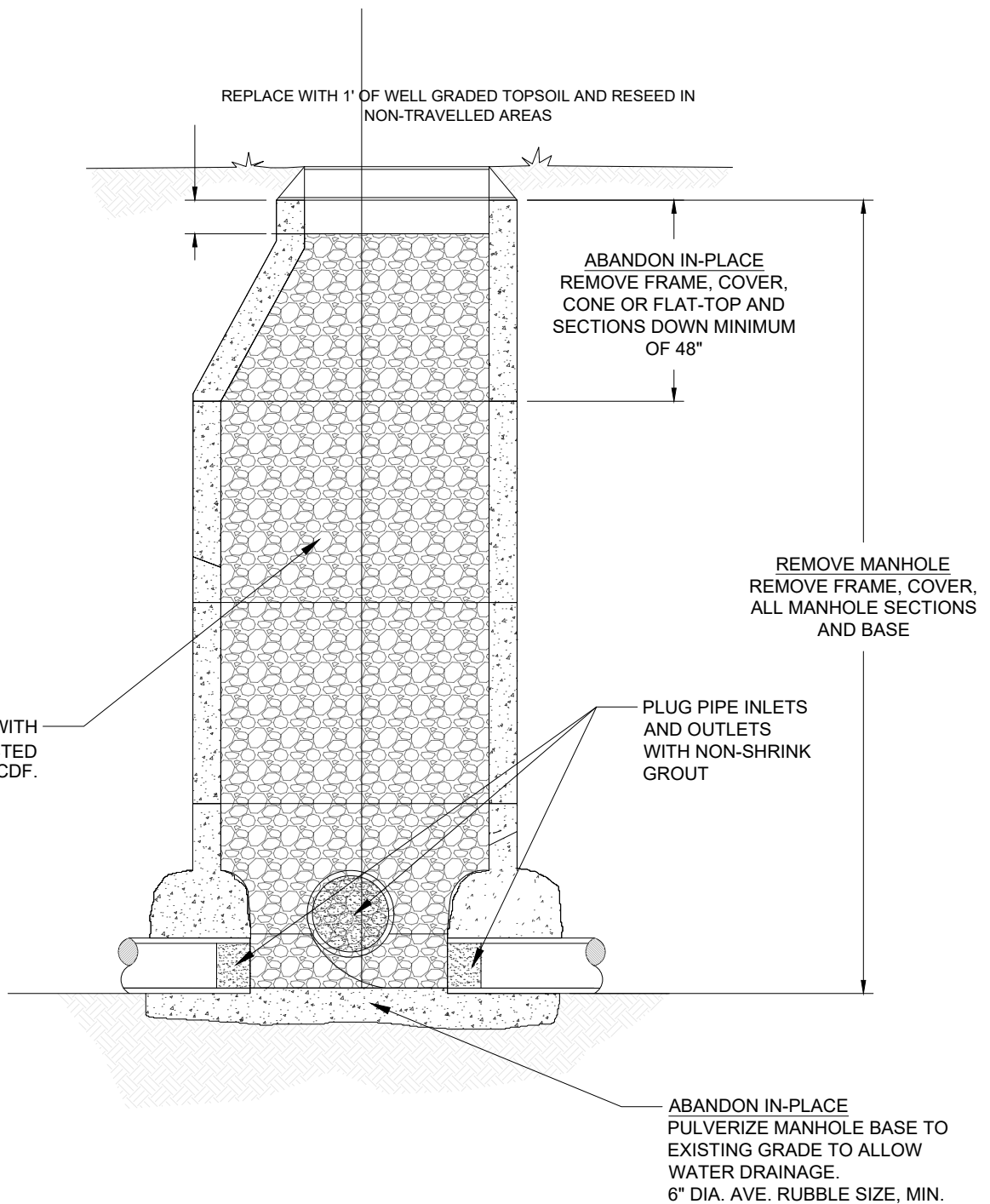
DEC 2023

APPROVED BY:

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STANDARD
DRAWING:

208



NOTES:

1. PRIOR TO MH ABANDONMENT OR REMOVAL, CONFIRM THAT ALL SEWER SERVICES HAVE BEEN CONNECTED TO NEW SEWER MAIN.



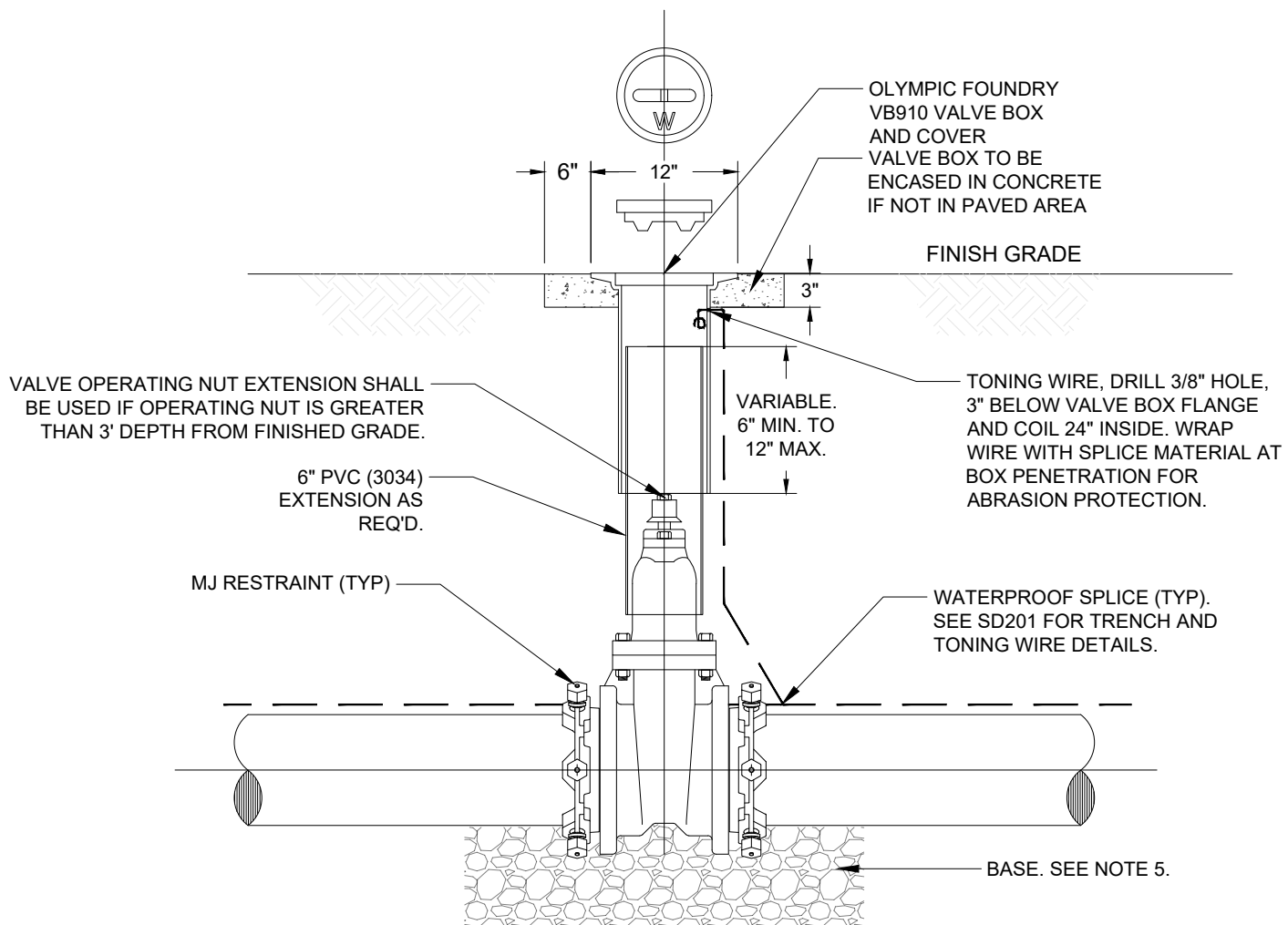
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MANHOLE ABANDONMENT OR REMOVAL

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	209



NOTES:

1. VALVE BOX SHALL BE CENTERED OVER VALVE OPERATING NUT IN A VERTICAL POSITION.
2. PVC EXTENSION SHALL BEGIN AS CLOSE TO VALVE AS POSSIBLE AND SHALL EXTEND TO WITHIN 6" OF GROUND SURFACE. PVC SHALL BE ONE CONTINUOUS PIECE - NO BELLS OR COUPLERS.
3. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISH GRADE.
4. VALVE SHALL BE EQUIPPED WITH 2" SQUARE OPERATING NUT LOCATED WITHIN 36" FROM GROUND SURFACE. SEE VALVE OPERATOR EXTENSION DRAWING SD301 WHERE REQUIRED.
5. VALVES 12" AND SMALLER SHALL BE PROVIDED WITH CLASS B BASE. VALVES LARGER THAN 12" SHALL BE INSTALLED ON PRECAST CONCRETE PIER BLOCK.
6. NO PIPE JOINTS ALLOWED WITHIN 10' OF IN-LINE VALVES UNLESS JOINT RESTRAINT DEVICE PROVIDED.



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WATER VALVE AND VALVE BOX DETAIL

SCALE:

N.T.S.

REV. DATE:

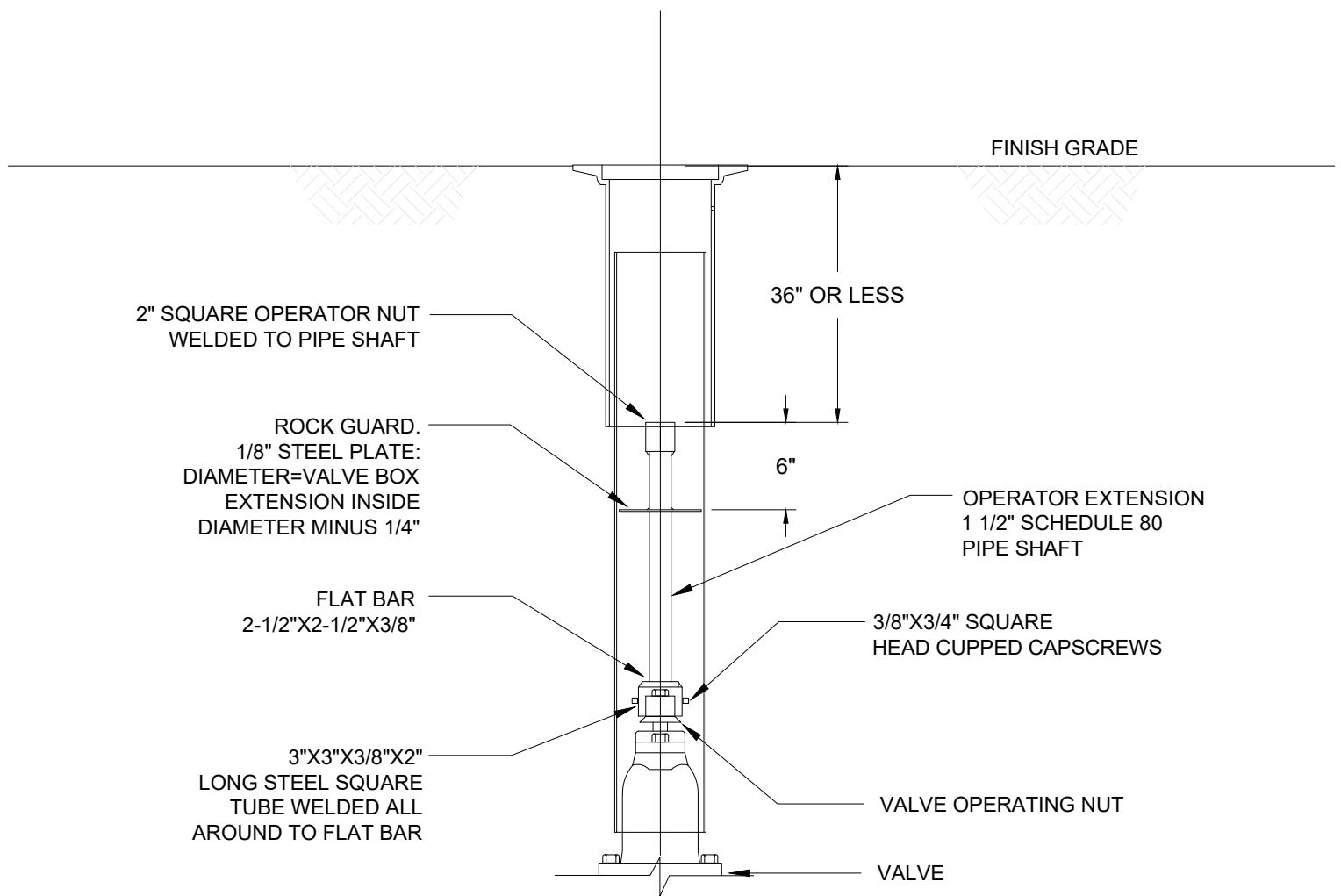
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APPROVED BY:

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STANDARD
DRAWING:

300



NOTES:

1. WHERE DEPTH IS OVER 6 FEET, A SECOND ROCK GUARD PLATE IS REQUIRED EQUALLY SPACED BETWEEN THE TOP ROCK GUARD AND THE VALVE NUT.
2. EXTENSION IS REQUIRED WHEN VALVE OPERATING NUT IS GREATER THAN 24 INCHES FROM FINISHED GROUND SURFACE.
3. SEE SD300 FOR VALVE AND BOX DETAILS.



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VALVE OPERATOR EXTENSION

SCALE:

N.T.S.

REV. DATE:

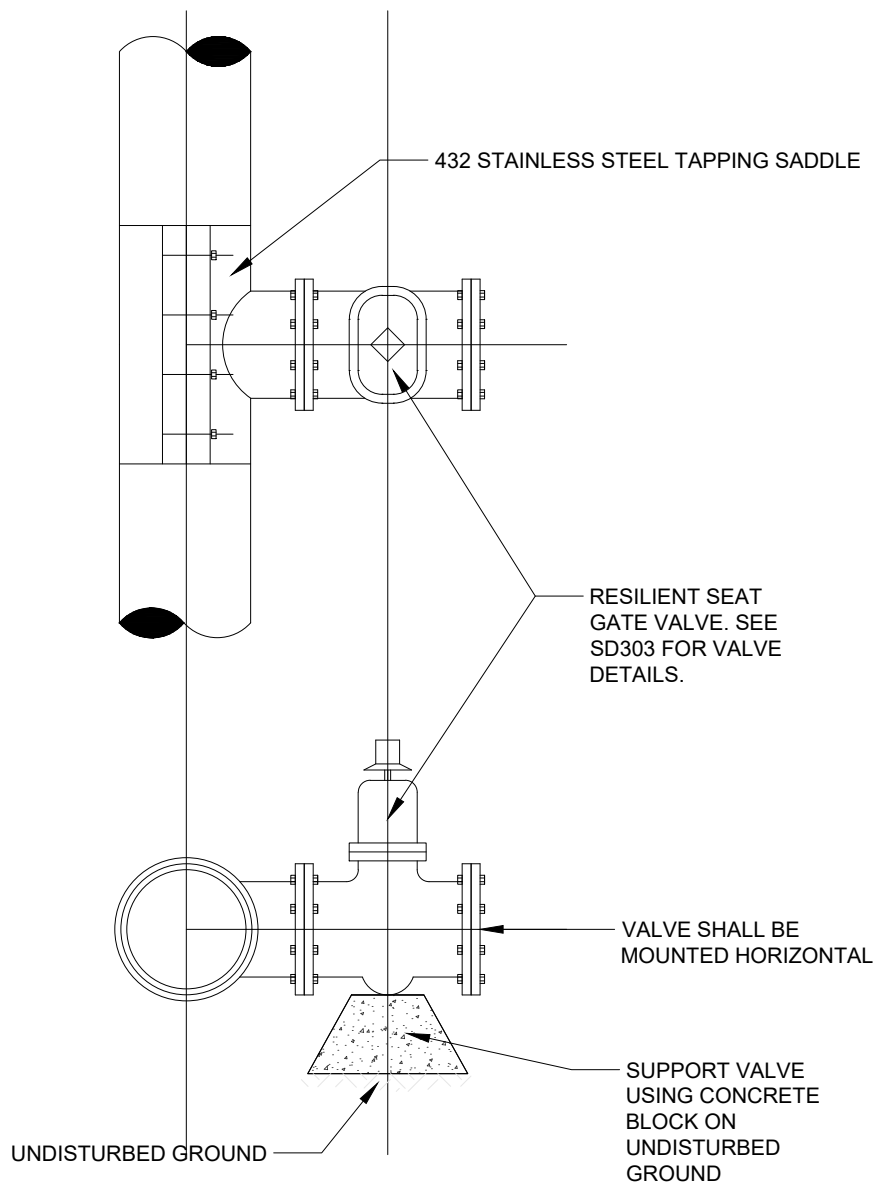
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

301



NOTES:

1. WATER MAIN SHALL BE CLEANED AND DISINFECTED BEFORE ATTACHING SLEEVE.
2. ALL MATERIALS SHALL BE NSF-61 CERTIFIED..
3. PRESSURE TEST AND TAP SHALL BE MADE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE BY A CONTRACTOR APPROVED BY THE ENGINEER.
3. CLASS B BACKFILL REQUIRED WITHIN THE PIPE ZONE. ABOVE THE PIPE ZONE OTHER BACKFILL CLASSES MAY BE USED WITH THE APPROVAL OF THE CITY ENGINEER. BACKFILL AND DENSITY REQUIREMENTS SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT VERSION, SECTION 00405.TAP SHALL BE MADE NO CLOSER THAN 18" FROM THE NEAREST JOINT. SEE SD201 FOR TRENCH BACKFILL DETAILS.
4. SLEEVE AND VALVE SHALL BE WRAPPED AND SEALED WITH 8 MIL PLASTIC.
5. FLUSH ALL METAL SHAVINGS CREATED BY THE TAPPING PROCESS FROM THE WATERMAIN BEFORE RETURNING TO SERVICE.



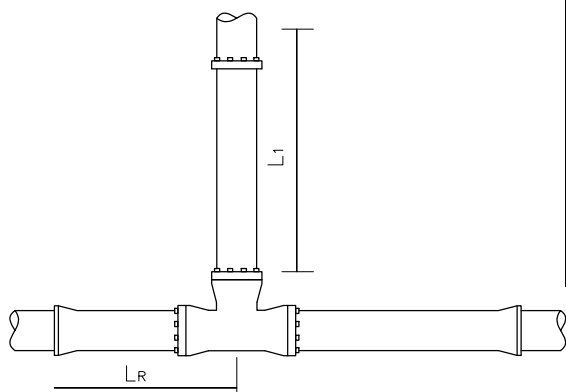
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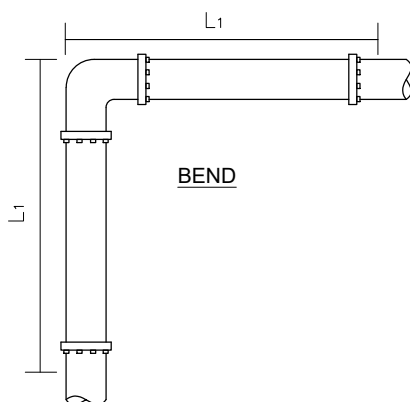
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LIVE-TAP SADDLE AND VALVE ASSEMBLY

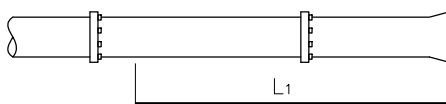
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REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	302



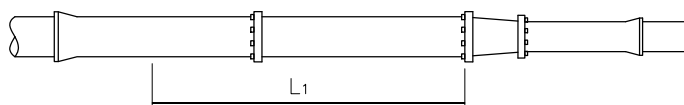
TEE CONFIGURATION



BEND



DEAD END



REDUCER

LENGTH (L1) OF PIPE REQUIRED FOR RESTRAINT (FEET)

Diameter	Horizontal Bend				Dead End	Reducer (restrained length for large diameter side)				
	90°	45°	22 1/2°	11 1/4°		4"	6"	8"	10"	12"
4"	30	23	20	19	44	--	37	53	65	77
6"	35	25	21	20	55	--	--	38	53	67
8"	40	27	22	20	66	--	--	--	37	54
10"	44	29	23	21	76	--	--	--	--	51
12"	49	31	24	21	86	--	--	--	--	--

LENGTH (L1) OF PIPE REQUIRED FOR RESTRAINT WHEN USING TEES (FEET)

Tee configurations (Restraint length for Branch)

Branch Pipe Diameter	LR=0	LR=2	LR=4	LR=6	LR=8	LR=10	LR=12	LR=14	LR=16	LR=18
4"	44	30	19	19	19	19	19	19	19	19
6"	55	45	36	26	19	19	19	19	19	19
8"	66	59	52	44	37	30	23	19	19	19
10"	76	70	64	58	53	47	41	35	30	24
12"	86	81	76	71	67	62	57	52	47	43

NOTES:

1. ALL JOINTS WITHIN THE LENGTH "L1" FROM THE ABOVE TABLES SHALL BE RESTRAINED.
2. JOINT TYPES NOT COVERED IN ABOVE TABLE MUST BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN ORDER TO DETERMINE APPROPRIATE RESTRAINED LENGTH.
3. ABOVE RESTRAINED LENGTHS ARE BASED ON A TEST PRESSURE OF 150 PSI, MINIMUM OF 3 FEET COVER, AND CLASS "B" PIPE ZONE CONDITIONS.
4. ANY REDUCTION OF THESE VALUES AS A RESULT OF OTHER CONDITIONS ENCOUNTERED SHALL BE BASED ON THE APPROPRIATE EVALUATION AND RECOMMENDATION BY A QUALIFIED, REGISTERED ENGINEER AND WITH APPROVAL BY THE CITY.
5. THRUST BLOCKING SHALL STILL BE USED AS APPLICABLE. SEE SD306.



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JOINT RESTRAINTS

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

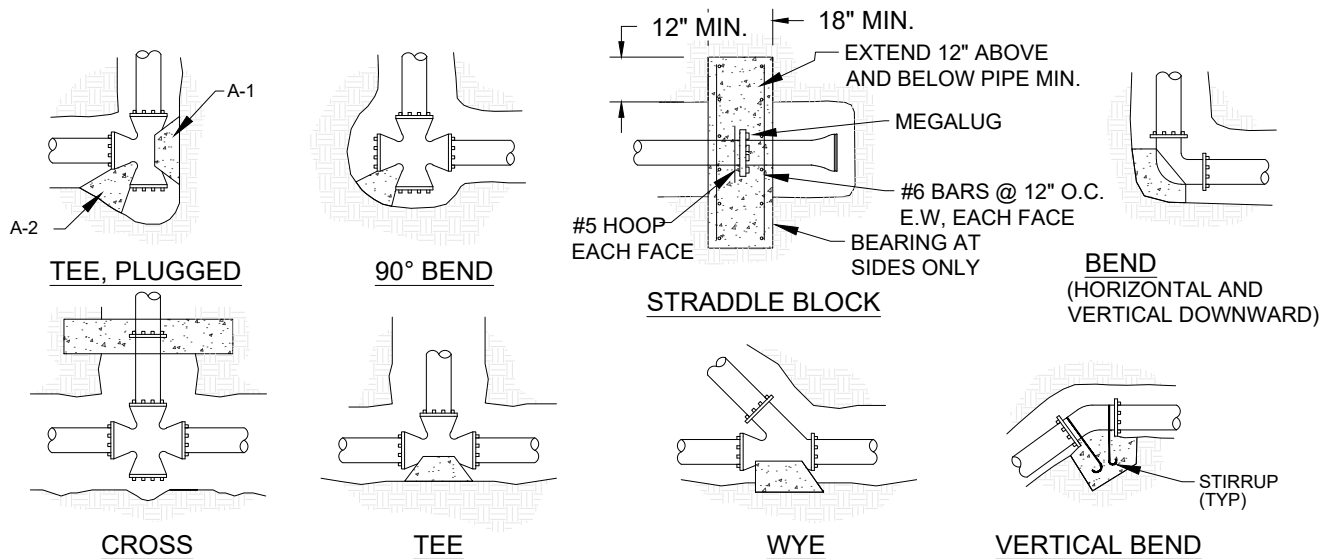
TEG

STANDARD
DRAWING:

303

(HORIZONTAL & VERTICAL DOWN) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET									(VERTICAL UP) VOLUME OF THRUST BLOCK IN CUBIC YARDS			
FITTING SIZE	TEE, WYE, DEAD END, AND HYDRANT	STRADDLE BLOCK	90° BEND	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
				A-1	A-2							
4	1.0	1.0	1.4	1.0	1.4	0.8	0.4	0.2	0.82	0.45	0.23	0.11
6	2.1	2.1	3.0	2.1	3.0	1.6	0.9	0.5	1.85	1.00	0.51	0.26
8	3.8	3.8	5.4	3.8	5.4	2.9	1.5	0.8	3.29	1.78	0.91	0.46
10	5.9	5.9	8.4	5.9	8.4	4.5	2.3	1.2	5.14	2.78	1.42	0.71
12	8.5	8.5	12.0	8.5	12.0	6.5	3.3	1.7	7.40	4.01	2.04	1.03
14	11.6	11.6	16.4	11.6	16.3	8.9	4.5	2.3	10.08	5.45	2.78	1.40
16	15.1	15.1	21.4	15.1	21.3	11.6	5.9	3.0	13.16	7.12	3.63	1.82
18	19.1	19.1	27.0	19.1	27.0	14.6	7.5	3.8	16.66	9.02	4.60	2.31
20	23.6	23.6	33.3	23.6	33.3	18.1	9.2	4.7	20.57	11.13	5.67	2.85
24	34.0	34.0	48.0	34.0	48.0	26.0	13.3	6.7	29.62	16.03	8.17	4.11

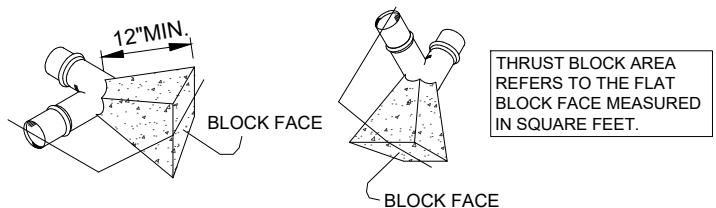
ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. DESIGNER IS CAUTIONED TO ENSURE THAT 2000 PSF BEARING IS AVAILABLE.



NOTES:

1. CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. ALL CONCRETE TO BE CLASS 3000 MINIMUM.
3. INSTALL 6 MIL PLASTIC BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
4. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
5. TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH (ASTM A615) COAT WITH COAL TAR EPOXY AFTER INSTALLATION.
6. BEARING AREA REQ'D AT REDUCERS IS THE DIFFERENCE BETWEEN VALUES FOR DEAD END FOR EACH END SIZE (IE 6x8 = 3.8-2.1 = 1.7 S.F.)

RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
10" AND LESS	#5	17"
12"-16" (11.25°)	#5	17"
12"-16" (22.5°)	#7	24"
12" (45°)	#7	24"
14"-16" (45°)	#9	30"



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THRUST BLOCKING

SCALE:

N.T.S.

REV. DATE:

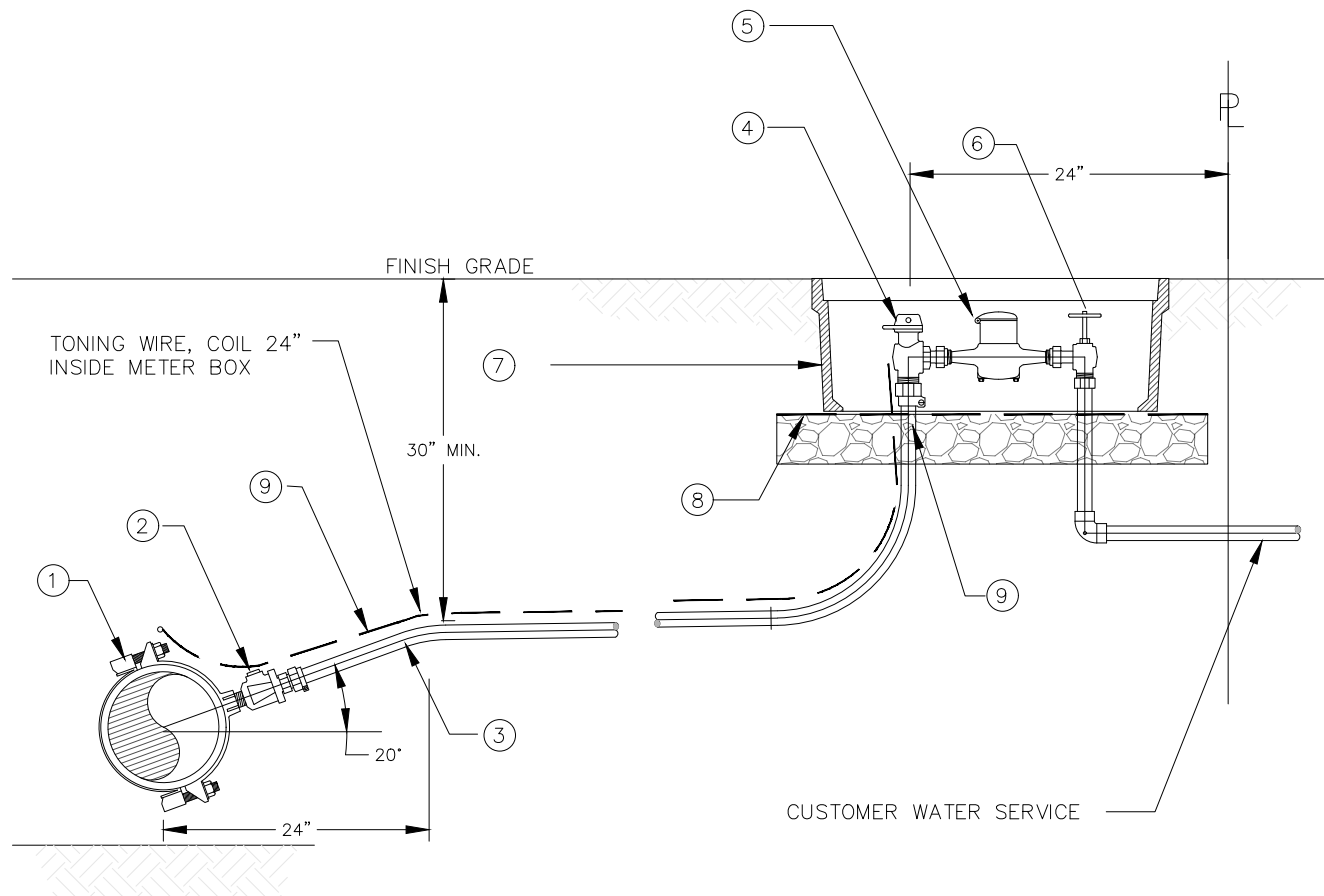
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

304



ITEM	SIZE	DESCRIPTION	SPECIFICATION
1	0'-1"	SADDLE	FORD/ROMAC 202BS; 1" FIP TAP
2	0'-1"	BALL CORP. STOP W/REDUCER AS REQ'D	MIP x PEP PJ; FORD FB1101-4, MUELLER E-25029, McDONALD 4704B-33
3	AS REQ'D	SERVICE PIPE	PEX 1006, SDR 9, 200 PSI, IPS FITTING COMPATIBLE, NSF 61
4	AS REQ'D	ANGLE BALL METER VALVE	PEP PACK JOINT INLET x METER SWIVEL NUT OUTLET FORD BA63-444W, MUELLER E-24259, McDONALD 4602B-33
5	AS REQ'D	WATER METER	KAMSTRUP FLOW IQ 2250
6	AS REQ'D	SERVICE VALVE ANGLE GLOBE	ANY MANUFACTURER, NSF 61 CERT., SIZED TO FIT METER AND CUSTOMER SERVICE.
7	16"x24"x12"	METER BOX	ARMORCAST A6001946PCX12 BOX WITH A6001866TDQ 20k RATED COVER WITH DROP-IN LID
8	24"x36"	AGGR. BASE	3/4" MINUS, 4" DEPTH
9	14 GA.	TRACER WIRE	14 GA. COPPER WIRE WITH BLUE 30 MIL THICK HDPE INSULATION
			ALL PARTS SHALL BE BRASS UNLESS OTHERWISE INDICATED



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TYPICAL 5/8"-3/4" WATER METER ASSEMBLY

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

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STANDARD
DRAWING:

305



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2" WATER METER ASSEMBLY

SCALE:

N.T.S.

REV. DATE:

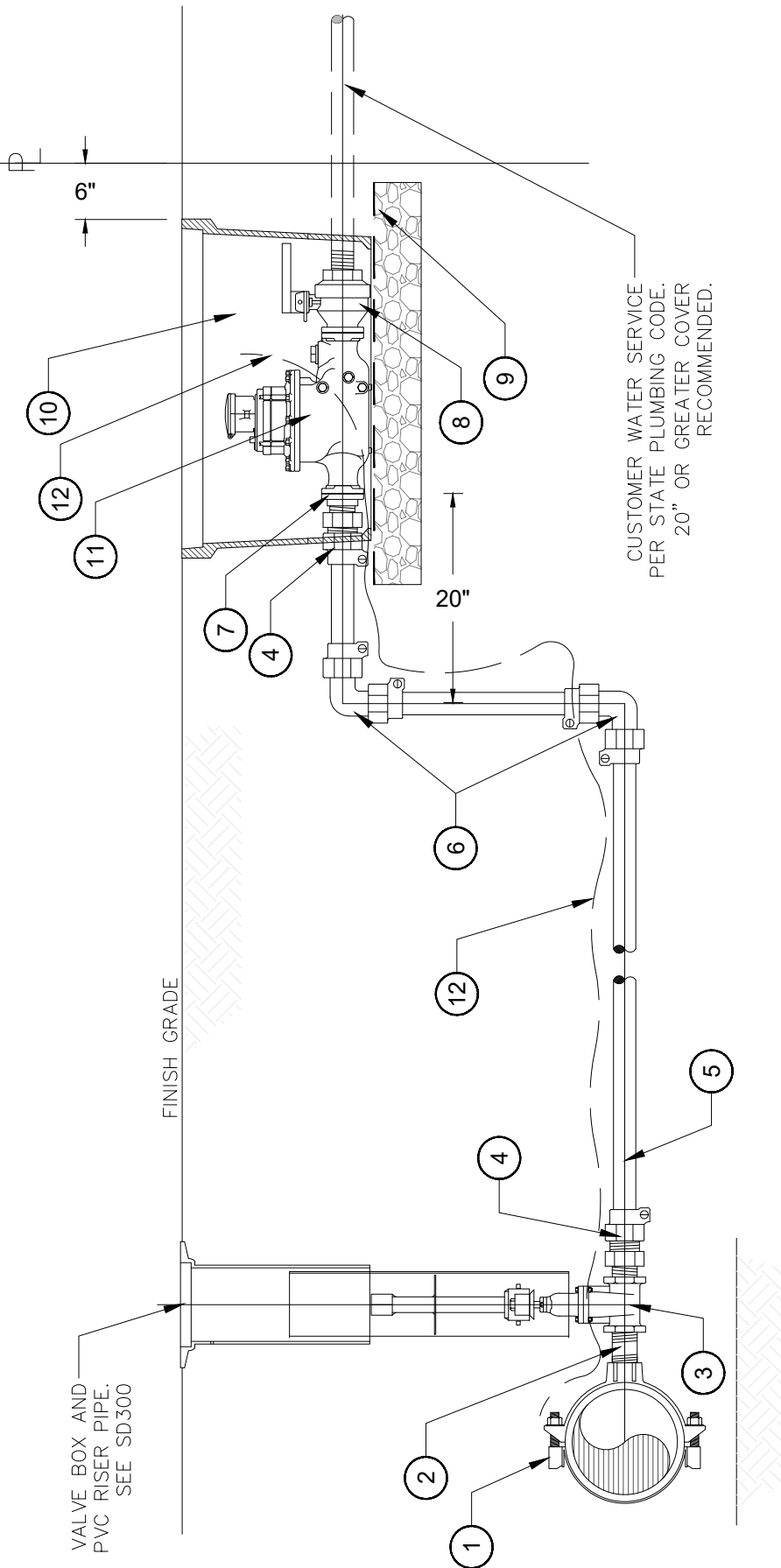
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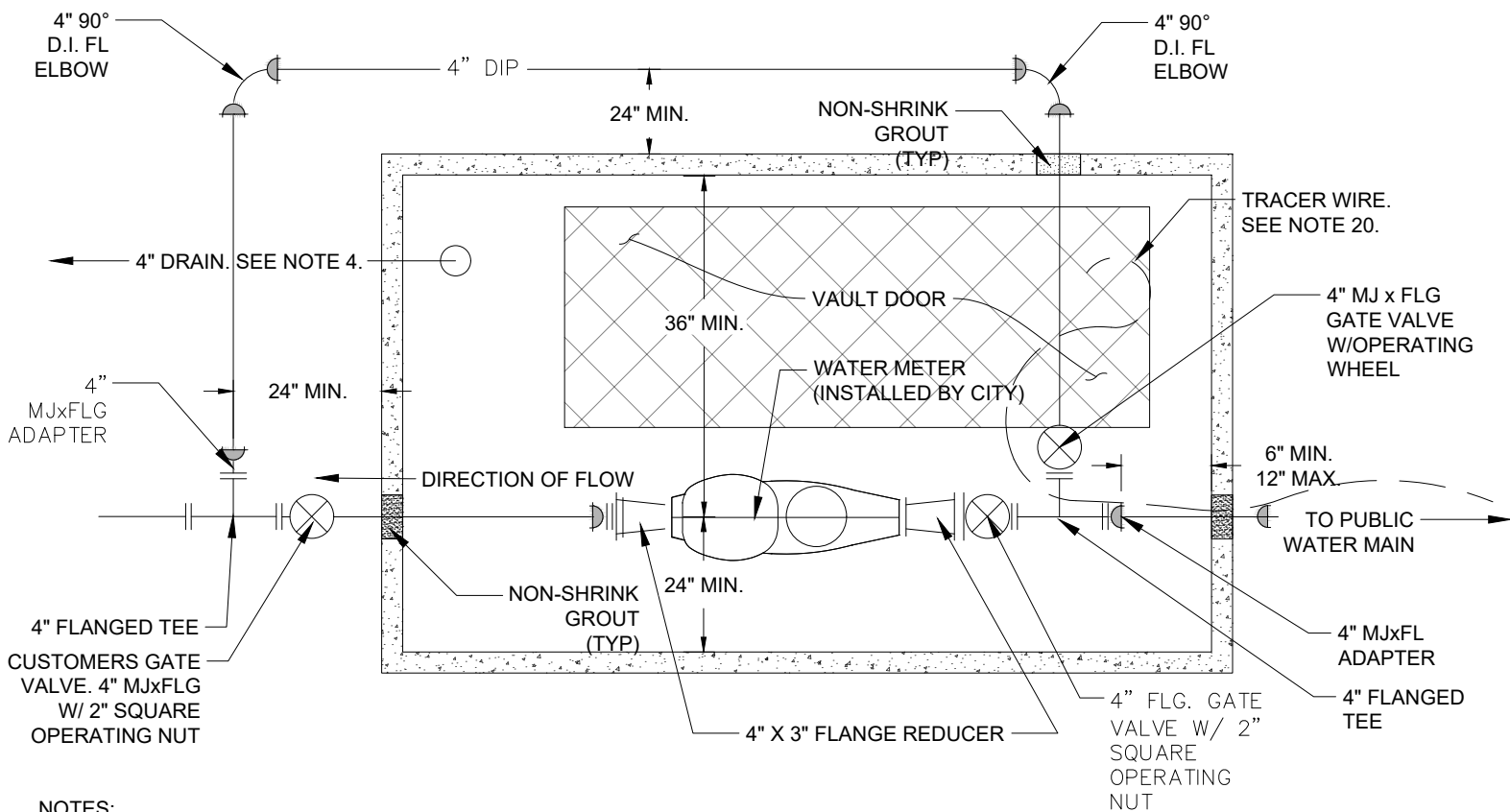
STANDARD
DRAWING:

306



SPECIFICATION

ITEM	SIZE	DESCRIPTION	SPECIFICATION
1	AS REQ'D	SADDLE	FORD/ROMAC 202BS; 2" FIP TAP
2	2"	NIPPLE	BRASS OR 304 SS NIPPLE, MIPxMIP, 4" LONG
3	2"	GATE VALVE	AWWA C509 RESILIENT WEDGE GATE VALVE, THRD. ENDS, 2" NUT
4	2"	PJ COUPLING W/ 304 SS STIFFENER	MIP x PEP PJ; FORD C86-77-IDR7, MUELLER E-15429, McDONALD 4753B-33
5	2"	SERVICE PIPE	HDPE (PE 3408), SIDR 7, 200 PSI, IPS FITTING COMPATIBLE, NSF 61. SEE SD201 FOR TRENCH BACKFILL DETAILS.
6	2"	PL ELBOW W/304 SS STIFFENER	PEP PACK JOINT ELBOW; FORD L66-77-IDR7, McDONALD 4761-33
7	2"	ADAPTER	METER FLANGE x 2" FIP OUTLET; FORD CF31-77, McDONALD 610F
8	2"	BALL METER VALVE W/ HANDLE	METER FLG x FIP; FORD BF13-777W; MUELLER B-24337, McDONALD 6101M
9	24"x36"	SS SCREEN	STAINLESS STEEL SCREEN PLACED ON 4" ROCK
10	17"x30"x18"	METER BOX	ARMORCAST A6001640PCX18, A6001947TDZ (COVER), A6000482T (DROP-IN)
11	2"	WATER METER	AS DIRECTED BY CITY
12	14 GA	TRACER WIRE	14 GA. COPPER WIRE WITH BLUE 30 MIL THICK HDPE INSULATION. CONNECT TO MAIN TRACER WIRE WITH WATERTIGHT CONNECTION. COIL 24" IN METER BOX.



NOTES:

- METER TO BE INSTALLED BY THE CITY ONCE NEW PIPING AND FITTINGS HAVE BEEN TESTED AND ACCEPTED. ALL OTHER WORK BY CONTRACTOR.
- ALL VAULT WALL OPENINGS SHALL BE CORE DRILLED AND SEALED WITH LINK-SEAL BRAND PIPE SEAL OR APPROVED EQUAL.
- TOP OF VAULT SHALL BE A MINIMUM OF 12" ABOVE FINISHED GRADE.
- INSTALL 4" DRAIN FROM BOTTOM OF VAULT FLOOR TO DAYLIGHT, TO BACKFLOW ASSEMBLY VAULT, TO STORM DRAIN SYSTEM OR TO APPROVED SUMP WITH SUMP PUMP. IN NO CASE SHALL BACKFLOW ASSEMBLY VAULT DRAIN INTO METER VAULT.
- INSTALL 4" BACKWATER VALVE, SMITH MDL. NO. 7022 AND SMITH 4" FLOOR DRAIN MDL. NO. 2210 OR APPROVED EQUAL ON FLOOR DRAIN.
- VAULT SHALL BE CLEAN, DRY AND FREE OF DEBRIS PRIOR TO METER INSTALLATION
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH "MEGALUG" RETAINER GLANDS, OR EQUAL.
- SERVICE LINE INTO VAULT SHALL BE MECHANICALLY RESTRAINED FROM MAINLINE THROUGH VAULT.
- ALL PIPING TO BE BACKFILLED WITH CLASS B BACKFILL UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- INSTALL A MIN. OF 3 PIPE SUPPORTS IN VAULT (GRINNELL NO. 264, ELCEN NO. 50 OR APPROVED EQUAL).
- ALL PIPING AND FITTINGS IN VAULT SHALL BE LEVEL AND A MINIMUM OF 12" AND A MAX. OF 48" ABOVE THE FLOOR OF VAULT.
- ONLY APPROVED RESILIENT WEDGE VALVES ARE ALLOWED.
- ALL VAULT LIDS SHALL BE EQUIPPED WITH 1 TRPL METER HOLE IN DOORS. DOORS SHALL BE LOCATED NEAREST METER, CLOSEST TO STREET OR PUBLIC R-O-W.
- VAULT SHALL BE EQUIPPED WITH AN OSHA APPROVED LADDER. IF VAULT DEPTH IS GREATER THAN 6', AN OSHA APPROVED EXTENSION LADDER SHALL BE INSTALLED.
- ALL PIPE UP TO THE CUSTOMERS GATE VALVE SHALL BE CLASS 52 DUCTILE IRON.
- ALL FITTINGS, VALVES AND PIPING THROUGH ENTIRE VAULT SHALL BE LEVEL AT COMPLETION OF INSTALLATION.
- VAULT SHALL BE SEALED WITH "CRYSTAL SEAL" AT MANUFACTURER.
- ADJUST PIPE SIZE FOR 4" METER AND LARGER.
- UTILITY VAULT SHALL BE SIZED BY THE DESIGN ENGINEER.
- TRACER WIRE SHALL BE STUBBED INTO THE VAULT AND CONNECTED TO THE PUBLIC WATER MAIN TRACER WIRE BY A WATERPROOF CONNECTION. COIL TRACER WIRE AND HANG BELOW VAULT LID ACCESSIBLE FROM THE SURFACE.



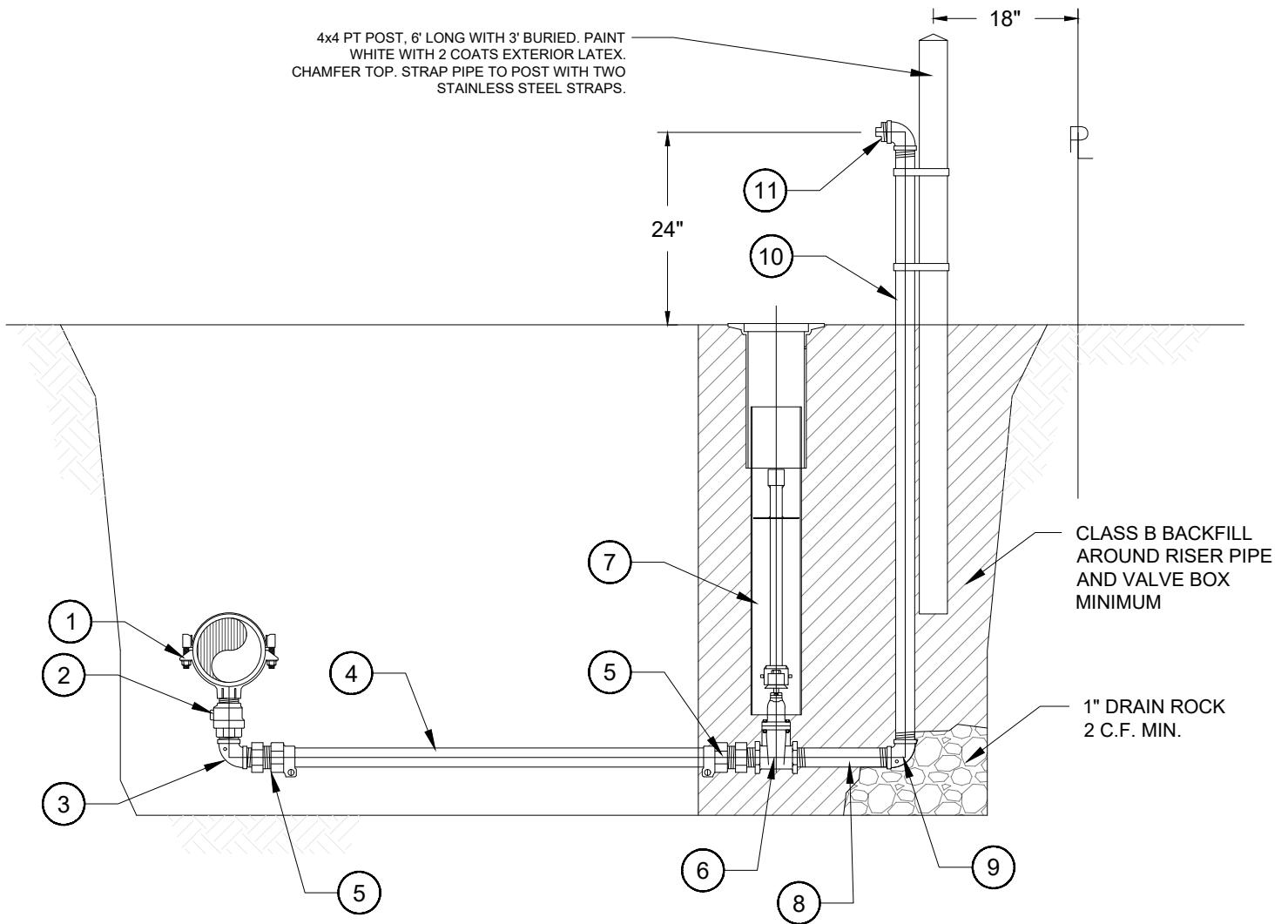
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3" AND LARGER WATER METER ASSEMBLY

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	307



ITEM	SIZE	DESCRIPTION	SPECIFICATION
①	AS REQ'D	SADDLE	FORD 202BS, ROMAC 202BS; 2" FIP TAP
②	2"	BALL CORP. STOP	MIP IN x MIP OUT; FORD FB500-7, MUELLER B-2969, McDONALD 3131B
③	2"	ELBOW	304 SS OR BRASS 90° ELBOW
④	2"	PIPE	HDPE (PE 3408), SDR 7, 200 PSI, IPS FITTING COMPATIBLE, NSF 61
⑤	2"	PE PJ COUPLING W/ 304 SS STIFFENER	PEP PJ x MIP; FORD C86-77-IDR7, MUELLER E-15429, McDONALD 4753-33
⑥	2"	GATE VALVE	AWWA C509 RESILIENT WEDGE GATE VALVE, THRD. ENDS, 2" NUT
⑦	2"	VALVE BOX	VALVE BOX AND COVER. SEE SD300 FOR VALVE BOX ASSEMBLY DETAILS.
⑧	2"	NIPPLE	SCH. 40 304 SS OR BRASS THRD. NIPPLE, 12" LONG
⑨	2"	ELBOW	304 SS OR BRASS 90° ELBOW, DRILL 1/8" HOLE FOR DRAIN
⑩	2"	PIPE	SCH. 40 304 SS OR BRASS PIPE AS REQ'D
⑪	2"	ELBOW/PLUG	304 SS OR BRASS ELBOW WITH MIP THRD. PLUG

NOTE: USE ONLY WHERE APPROVED. GENERALLY LOCATED AT LOCAL LOW POINTS IN THE PIPING SYSTEM WHERE HYDRANT IS NOT PRACTICAL. HYDRANTS OR LARGER BLOW-OFF MUST ALSO BE LOCATED NEARBY TO ALLOW PROPER FLUSHING. APPLICABLE FOR 6" AND SMALLER MAINS WHERE LINE PRESSURE EXCEEDS 75 PSI.



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2" BLOW-OFF ASSEMBLY

SCALE:

N.T.S.

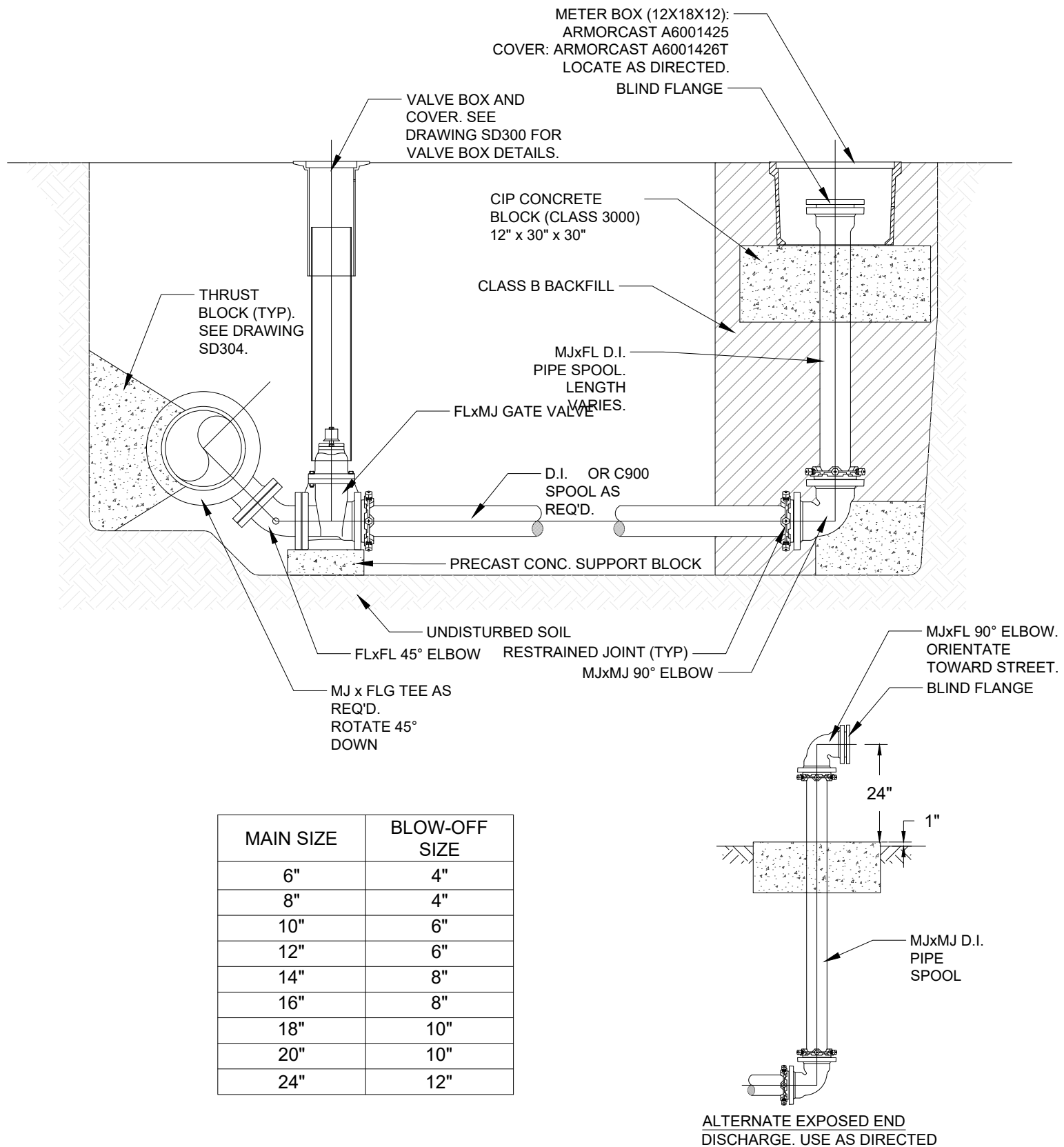
REV. DATE:

APPROVED BY:

TEG

STANDARD
DRAWING:

308



NOTE: USE ONLY WHERE APPROVED. GENERALLY LOCATED AT LOCAL LOW POINTS IN THE PIPING SYSTEM WHERE HYDRANT IS NOT PRACTICAL. HYDRANTS OR LARGER BLOW-OFF MUST ALSO BE LOCATED NEARBY TO ALLOW PROPER FLUSHING. APPLICABLE FOR >6" MAINS WHERE LINE PRESSURE EXCEEDS 75 PSI.



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4"+ BLOW-OFF ASSEMBLY

SCALE:

N.T.S.

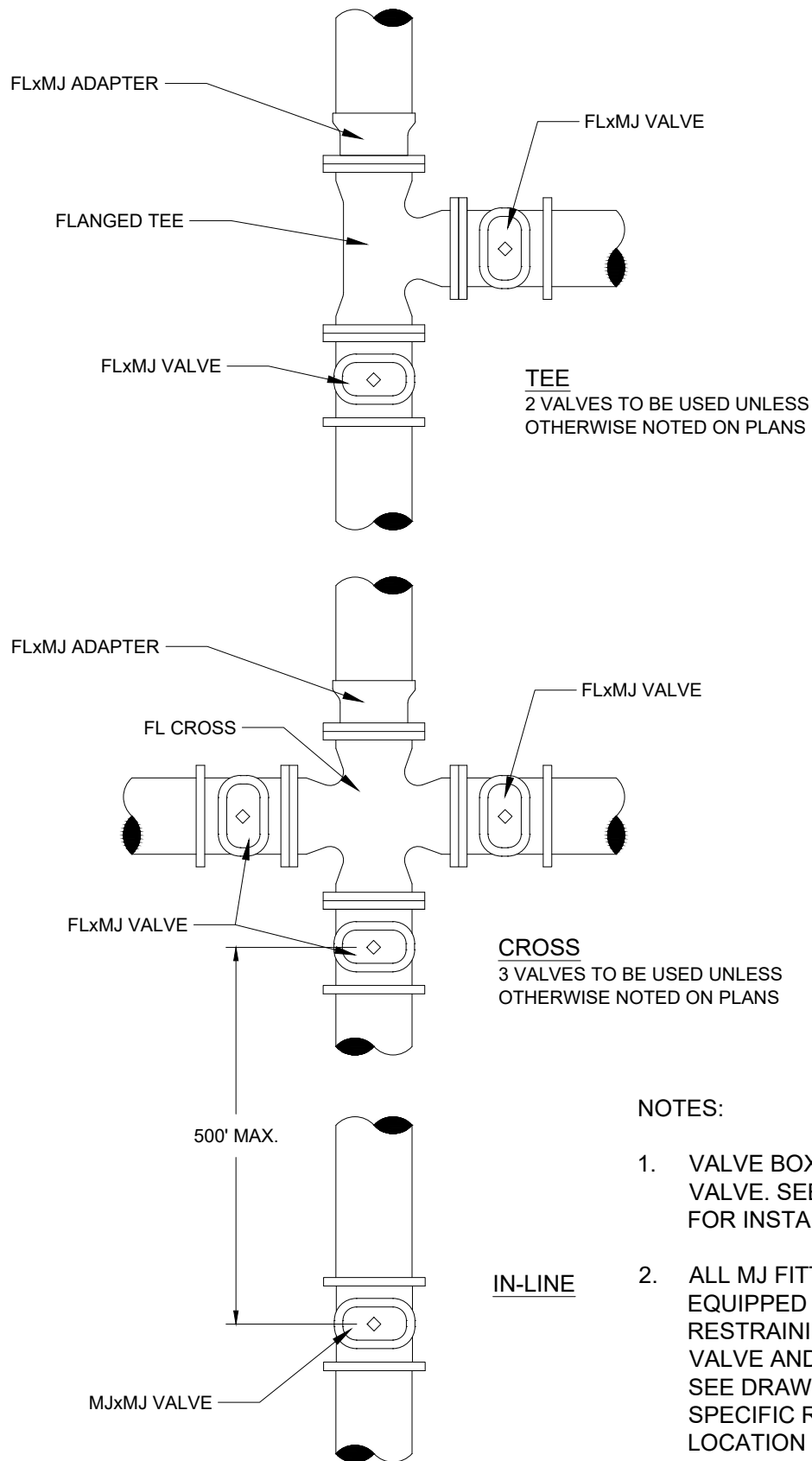
REV. DATE:

APPROVED BY:

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STANDARD
DRAWING:

309



NOTES:

1. VALVE BOXES REQ'D AT EACH VALVE. SEE DRAWING SD300 FOR INSTALLATION DETAILS.
2. ALL MJ FITTINGS SHALL BE EQUIPPED WITH APPROVED RESTRAINING RINGS AT EACH VALVE AND NEARBY FITTINGS. SEE DRAWING SD303 FOR SPECIFIC RESTRAINT LOCATION REQUIREMENTS.



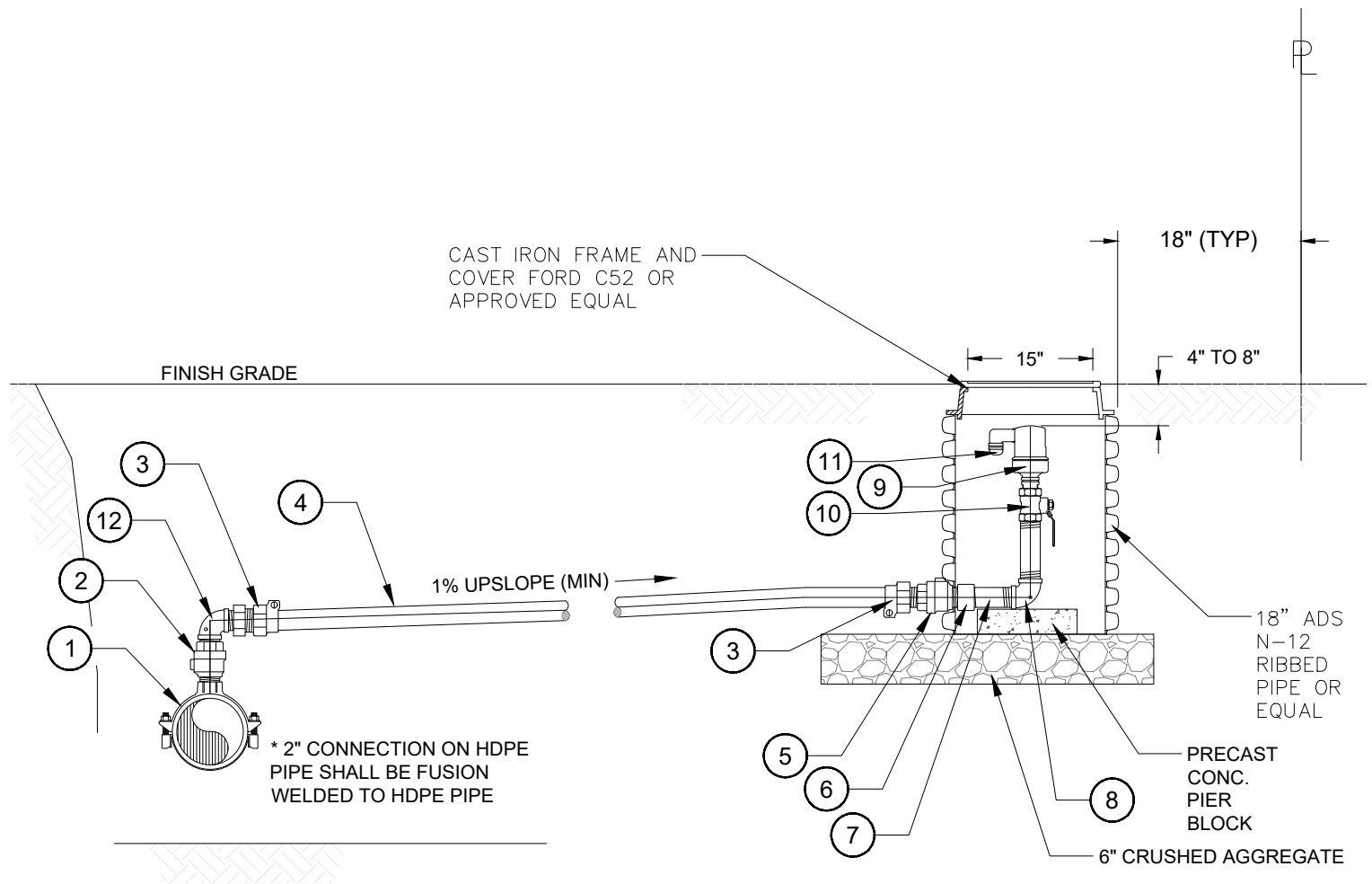
City of Yachats

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VALVE LOCATIONS AND SPACING

SCALE:	N.T.S.
REV. DATE:	----
APPROVED BY:	TEG
STANDARD DRAWING:	311



NOTE:
 LOCATE AIR VALVE AS DIRECTED OUTSIDE VEHICLE TRAFFIC. CERTAIN LOCATIONS ALLOW DIRECT PLACEMENT OVER MAIN PIPE ELIMINATING ELBOWS. OTHER LOCATIONS REQUIRE VALVE AND BOX TO BE PLACED NEAR PROPERTY LINE INSIDE PUBLIC R/W.

ITEM	SIZE	DESCRIPTION	SPECIFICATION
①	AS REQ'D	SADDLE	FORD/ROMAC 202BS; 2" FIP TAP** - TAP AT TOP OF PIPE
②	2"	BALL CORP. STOP	MIP IN x MIP OUT; FORD FB500-7, MUELLER B-2969, McDONALD 3131B
③	2"	PJ COUPLING W/ 304 SS STIFFENER	MIP x PEP PJ; FORD C86-77-IDR7, MUELLER E-15429, McDONALD 4753-33
④	2"	PIPE	HDPE (PE 3408), SIDR 7, 200 PSI, IPS FITTING COMPATIBLE, NSF 61
⑤	2"	BALL CORP. STOP	PEP PACK JOINT x MIP; FORD FB1101-7, MUELLER E-25029, McDONALD 4704B-33
⑥	2"	COUPLING	THREADED 304 SS OR BRASS COUPLING, SHORT
⑦	2"	NIPPLE	THREADED 304 SCH. 40 SS OR BRASS NIPPLE, 6" LONG
⑧	2"	STREET ELBOW	304 SS OR BRASS 90° STREET ELBOW
⑨	2"	CAV	COMBINATION AIR VALVE; PVC ARI D-040B VALVE
⑩	2"	BALL VALVE	2" STAINLESS STEEL BALL VALVE W/ HAND LEVER
⑪	2"	TEE VENT	ALUMINUM T-VENT, 20 MESH SS SCREEN, MORRISON BROS. FIG 155
⑫	2"	ELBOW	304 STAINLESS STEEL OR BRASS ELBOW



City of Yachats

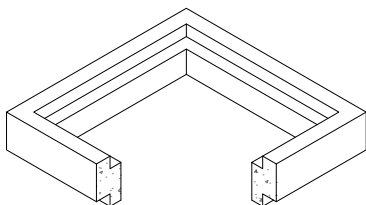
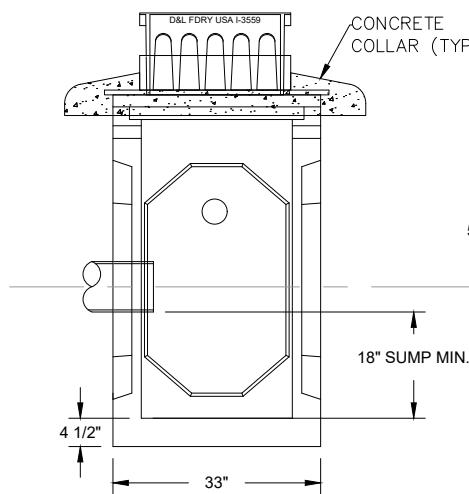
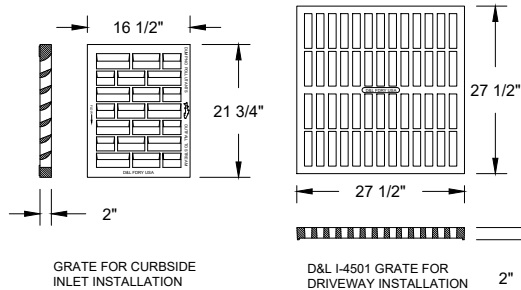
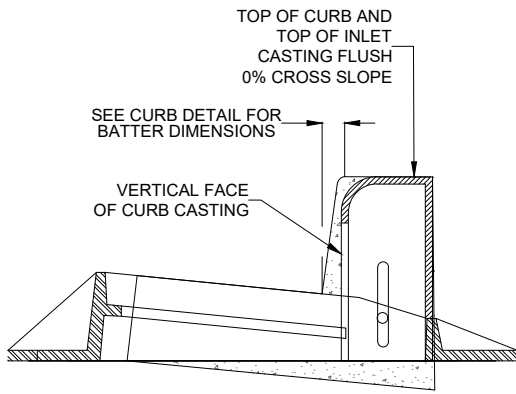
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2" COMBINATION AIR-VAC RELEASE ASSEMBLY

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	314

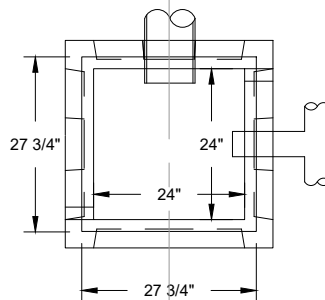
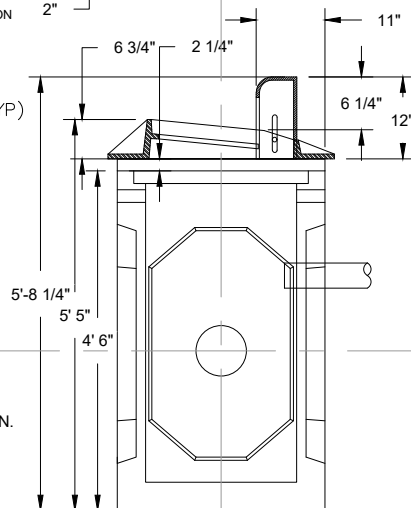
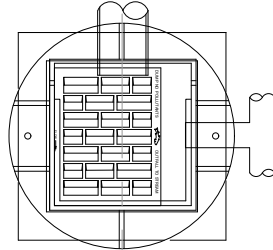
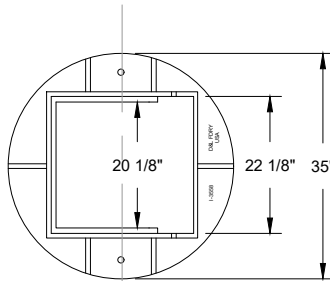
FACE OF CURB / FACE OF CASTING ORIENTATION



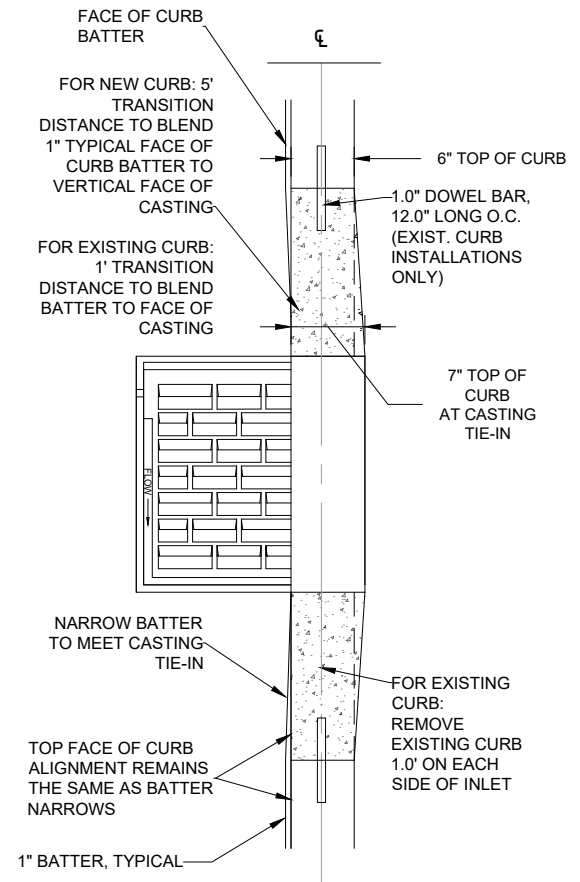
* 4", 6" & 12" OPTIONAL ADJUSTMENT RISER RINGS

ADJUSTING RINGS

BOX & CASTING



TOP OF CURB / TOP OF CASTING ALIGNMENT



NOTES:

1. SET GRATE TO GRADE WITH CONCRETE ADJUSTMENT RINGS AND MORTAR; GROUT BETWEEN GRATE AND BOX TO SMOOTH FINISH.
2. POUR CONCRETE COLLAR AROUND GRATE AND BOX.
3. MAXIMUM VERTICAL ADJUSTMENT OF 2 1/4" WITHOUT RISER RINGS; MAX HORIZONTAL OFFSET = 3".
4. MAXIMUM OF 12" OF CONCRETE ADJUSTMENT RINGS ALLOWED WITH FULL BED OF MORTAR BETWEEN EACH.
5. VOIDS AROUND PIPE DIAMETER SHALL BE GROUTED ON THE INSIDE AND OUTSIDE OF THE BOX.
6. LOCATE WIRES (SEE PIPE INSTALLATION STANDARD DRAWINGS FOR DETAILS) SHALL BE EXTENDED TO THE TOP OF THE STRUCTURE.
7. OPTIONAL BAFFLE BOX (NOT SHOWN) FOR 6", 8", 10", OR 12" PIPES ARE AVAILABLE; AS REQUIRED BY ENGINEER.
8. USE ADVANTAGE PRECAST 24" SQUARE CATCH BASIN OR PRE-APPROVED EQUAL. USE D&L FOUNDRY I-3559 CURB INLET OR PRE-APPROVED EQUAL.
9. FLAT GRATE D&L FOUNDRY I-4501 OR PRE-APPROVED EQUAL CAN BE SUBSTITUTED FOR DRIVEWAY INSTALLATIONS.



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CURBSIDE INLET CATCH BASIN

SCALE:

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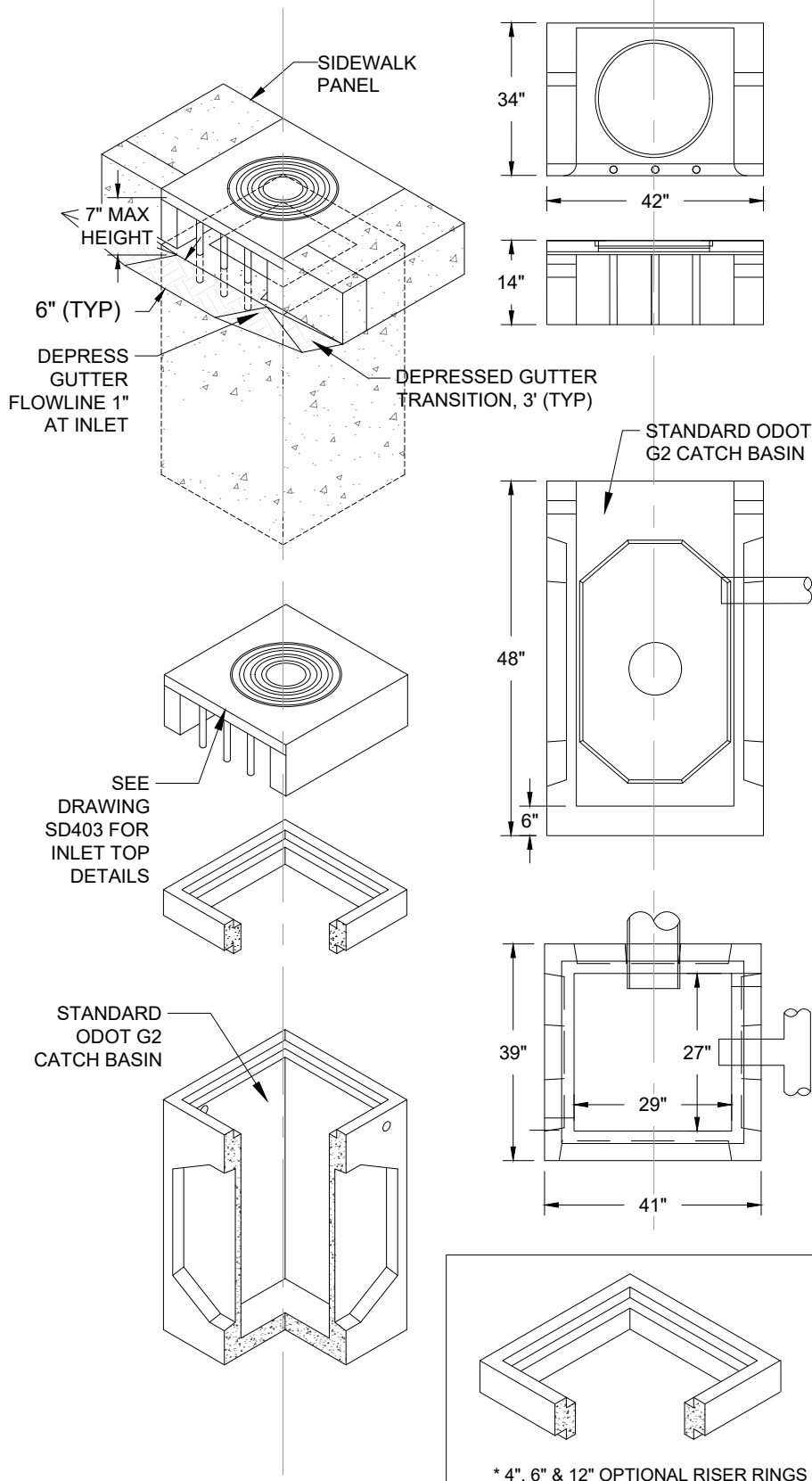
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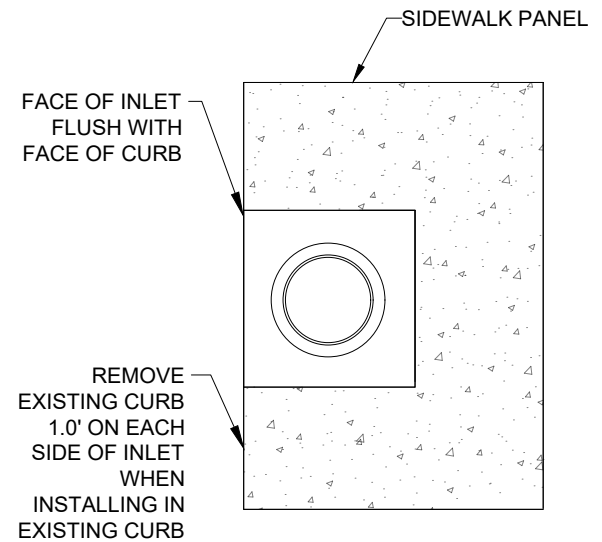
STANDARD
DRAWING:

401

BOX & CASTING



CASTING / CURB ALIGNMENT



NOTES:

1. SET TOP TO GRADE WITH CONCRETE ADJUSTMENT RINGS AND MORTAR; GROUT BETWEEN TOP AND BOX TO SMOOTH FINISH.
2. POUR CONCRETE COLLAR AROUND JOINT BETWEEN TOP AND BOX.
3. MAXIMUM VERTICAL ADJUSTMENT OF $2\frac{1}{4}$ " WITHOUT RISER RINGS; MAX HORIZONTAL OFFSET = 3".
4. MAXIMUM OF 12" OF CONCRETE ADJUSTMENT RINGS ALLOWED WITH FULL BED OF MORTAR BETWEEN EACH.
5. VOIDS AROUND PIPE DIAMETER SHALL BE GROUTED ON THE INSIDE AND OUTSIDE OF THE BOX.
6. LOCATE WIRES (SEE PIPE INSTALLATION STANDARD DRAWINGS FOR DETAILS) SHALL BE EXTENDED TO THE TOP OF THE STRUCTURE.
7. OPTIONAL BAFFLE BOX (NOT SHOWN) FOR 6", 8", 10", OR 12" PIPES ARE AVAILABLE; AS REQUIRED BY ENGINEER.
8. TRANSITION ASPHALT IN FRONT OF GRATE FOR FLOW INTO CURB INLET; 1" ELEVATION DIFFERENCE BETWEEN NORMAL AND DEPRESSED GUTTER LINES.

* 4", 6" & 12" OPTIONAL RISER RINGS



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BEHIND CURB INLET CATCH BASIN

SCALE:

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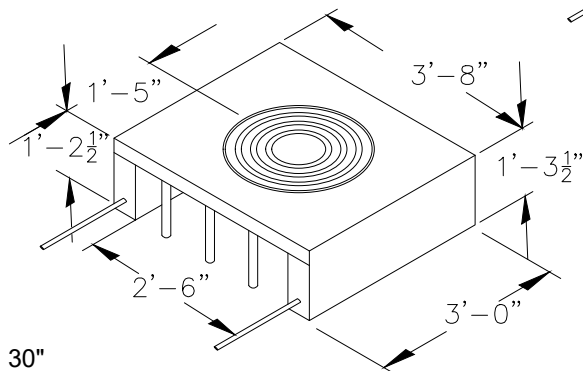
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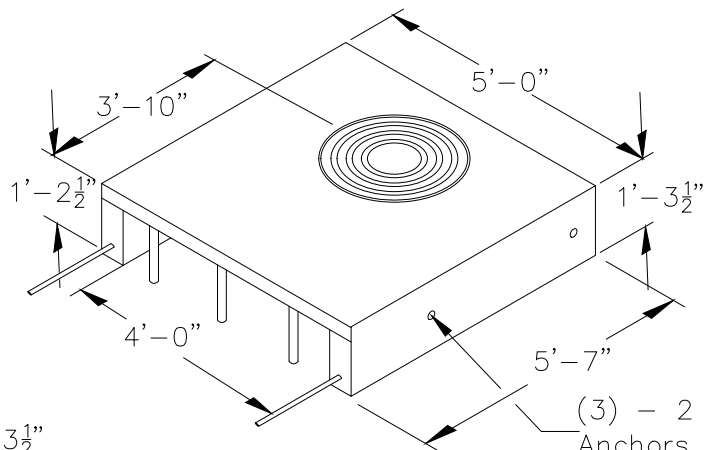
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STANDARD
DRAWING:

402

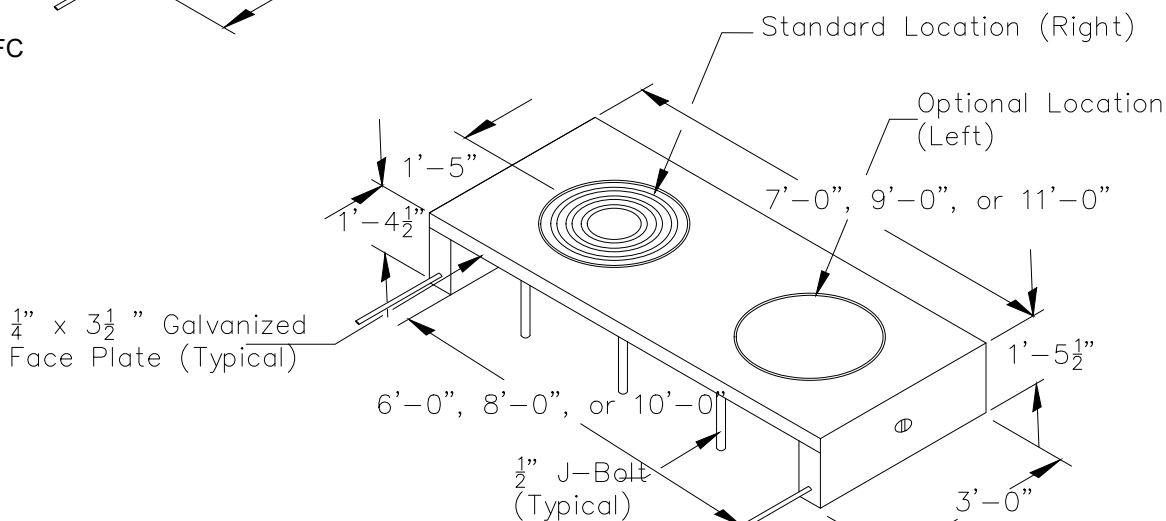


30"
No. CI-30-23FC
1,075 lbs.

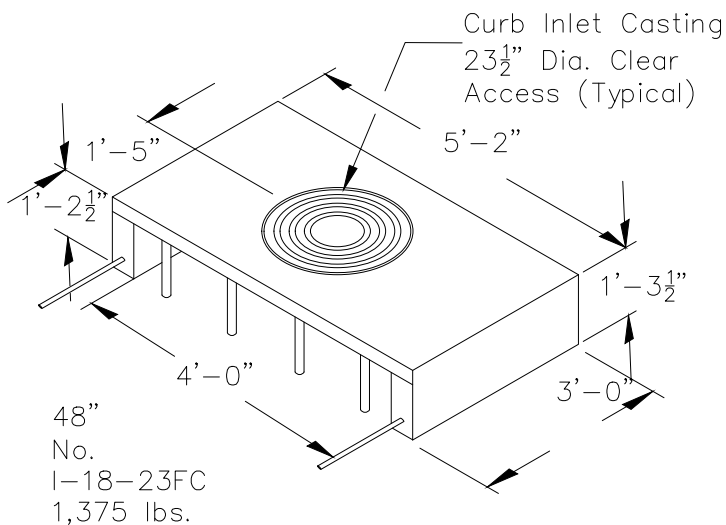


48" MH
No.
CI-48MH-23FC
2,375 lbs.

(3) - 2 Ton Lift
Anchors (1 Each
Side, 1 Back Side)



VARIABLE 6', 8', &
10' MH
No. CI-VARMH-23FC
6'-0" 2,100 lbs.
8'-0" 2,880 lbs.
10'-0" 3,520 lbs.



48"
No.
I-18-23FC
1,375 lbs.



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BEHIND CURB INLET TOPS

SCALE:

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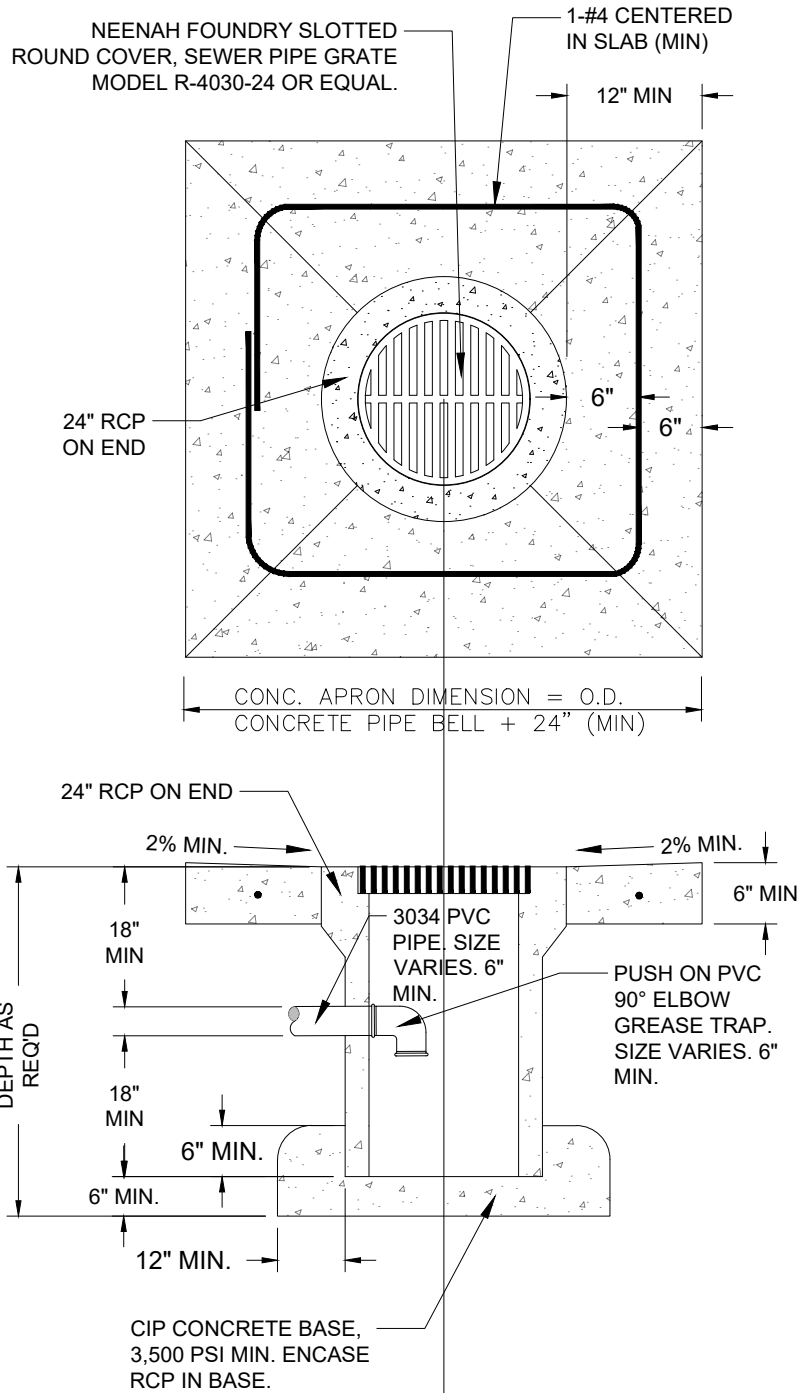
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

403



NOTES:

1. GRATE TO BE CAST IRON, ASTM A48 CL30.
2. PRECAST CONCRETE CATCH BASINS MAY BE USED FOR AREA DRAINS WHEN APPROVED BY THE CITY.
3. NOT FOR USE IN VEHICULAR TRAFFIC AREAS.



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AREA DRAIN INLET

SCALE:

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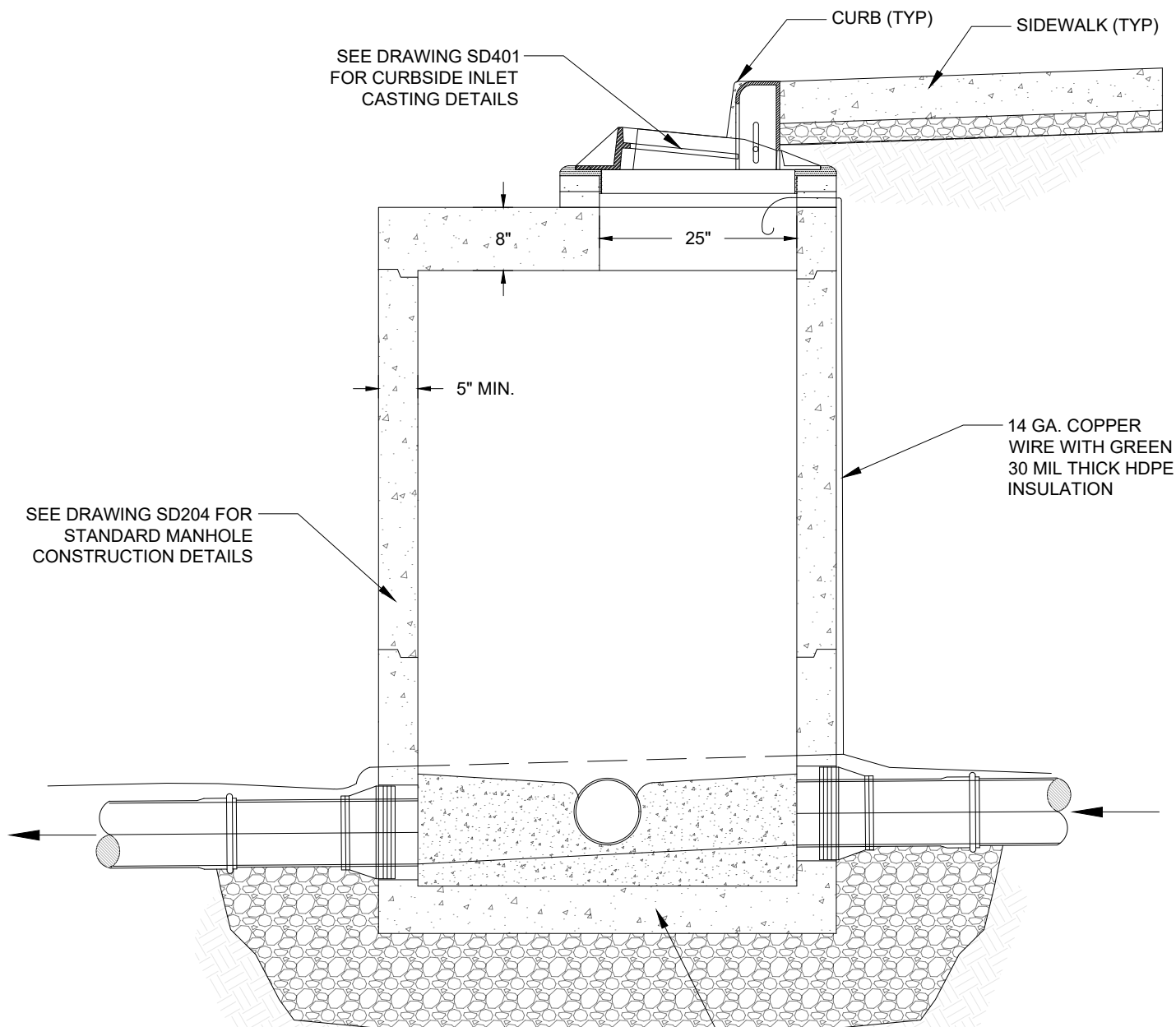
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

405



NOTES:

1. MANHOLE BASE CURB INLETS SHALL BE APPROVED PRIOR TO INSTALLATION.
2. STANDARD MANHOLE REQUIRED WHEN DEPTH FROM FINISH GRADE TO INVERT IS 6 FEET OR MORE.
3. ALL PRECAST MANHOLE SECTIONS SHALL MEET ASTM C-478.
4. MANHOLE MAY BE ROTATED AS NEEDED BY EXISTING CONDITIONS. FINAL ROTATION APPROVED BY CITY ENGINEER.

STANDARD MANHOLE BASE.
SEE DRAWING SD203.



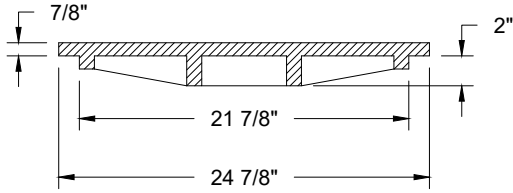
City of Yachats

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Yachats, OR 97498

Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

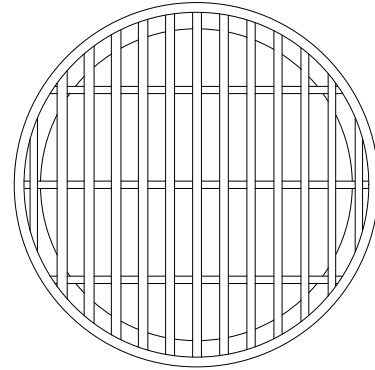
MANHOLE CURB INLET

SCALE:	N.T.S.
REV. DATE:	----
APPROVED BY:	TEG
STANDARD DRAWING:	407



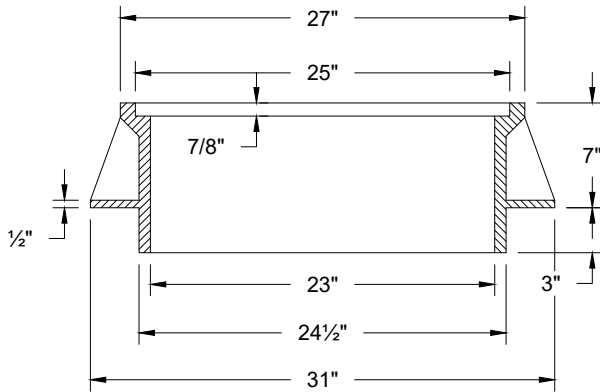
COVER (150 LBS)

(OLYMPIC FOUNDRY MH26S, OR APPROVED EQUAL)



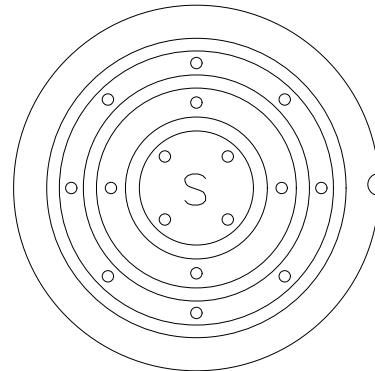
GRATE

(OLYMPIC FOUNDRY #MH26G,
OR APPROVED EQUAL)



FRAME (237 LBS)

(OLYMPIC FOUNDRY MH26A, OR APPROVED EQUAL)



STORM

(OLYMPIC FOUNDRY #MH26P
OR APPROVED EQUAL)

NOTES:

1. USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
2. MANHOLE FRAMES AND COVER SHALL HAVE H-20 RATING
3. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48 CLASS 30.
4. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
5. COVER SHALL INCLUDE 16 HOLES AND EDGE NOTCH FOR LIFTING HOOK.
6. OPEN GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.



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STORMWATER MANHOLE COVER AND FRAME

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

408

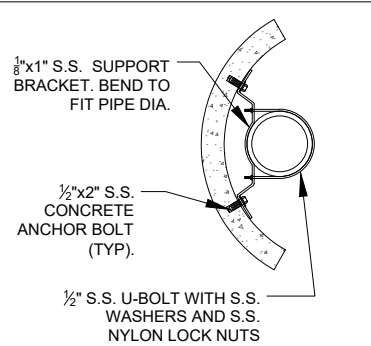
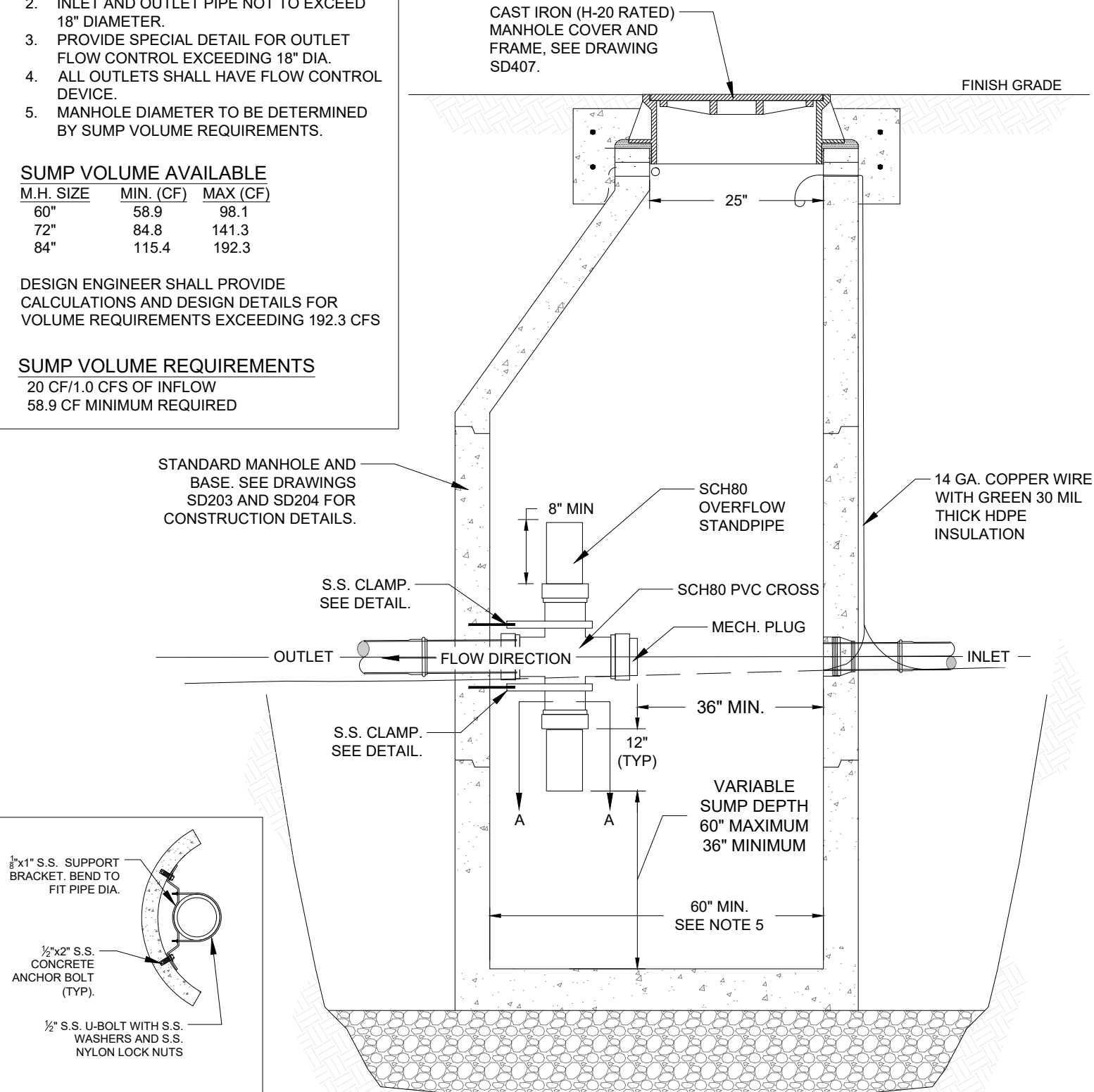
- NOTES:
1. ALL MANHOLE SECTIONS SHALL CONFORM TO THE REQ. OF ASTM C-478 AND APPLICABLE PROVISIONS OF STD. MANHOLE DRAWING NO. 204 & 205.
 2. INLET AND OUTLET PIPE NOT TO EXCEED 18" DIAMETER.
 3. PROVIDE SPECIAL DETAIL FOR OUTLET FLOW CONTROL EXCEEDING 18" DIA.
 4. ALL OUTLETS SHALL HAVE FLOW CONTROL DEVICE.
 5. MANHOLE DIAMETER TO BE DETERMINED BY SUMP VOLUME REQUIREMENTS.

SUMP VOLUME AVAILABLE

M.H. SIZE	MIN. (CF)	MAX (CF)
60"	58.9	98.1
72"	84.8	141.3
84"	115.4	192.3

DESIGN ENGINEER SHALL PROVIDE CALCULATIONS AND DESIGN DETAILS FOR VOLUME REQUIREMENTS EXCEEDING 192.3 CFS

SUMP VOLUME REQUIREMENTS
 20 CF/1.0 CFS OF INFLOW
 58.9 CF MINIMUM REQUIRED



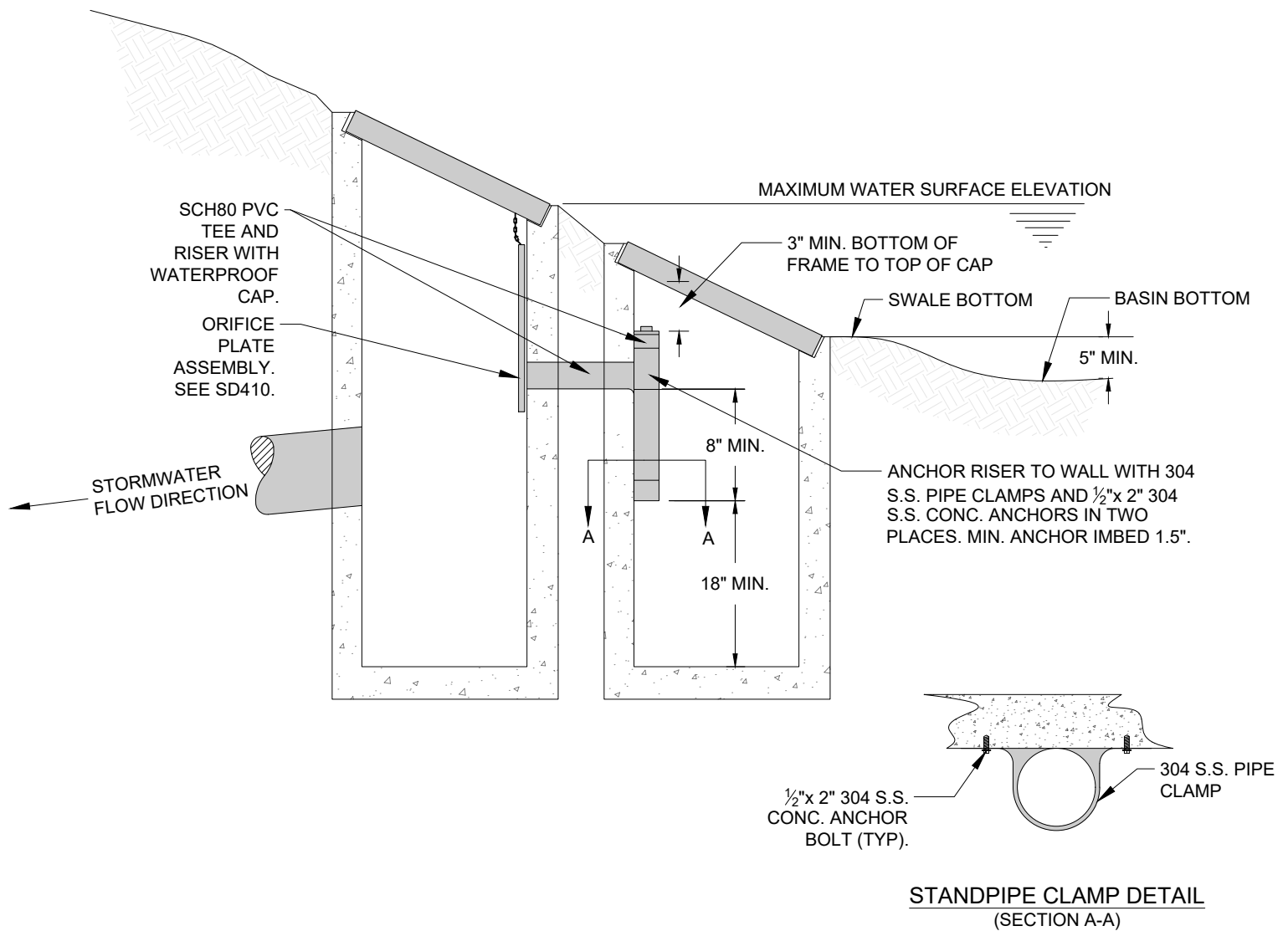
CLAMP DETAIL
(SECTION A-A)



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STORMWATER QUALITY MANHOLE

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	409



NOTES:

1. CONNECTING PIPE AND TEE SHALL BE 4", 6", OR 8" AWWA C-900 OR ASTM 3034 PVC, AND ONE SIZE LARGER THAN THE ORIFICE OPENING.
2. MAXIMUM ORIFICE OPENING SHALL BE 6" DIAMETER.
3. STRUCTURES AND FRAME SHALL CONFORM TO ODOT STANDARD DRAWING RD370, DITCH INLET TYPE D.
5. PLATE AND GUIDE SHALL BE SECURED FLUSH AGAINST WALL OF STRUCTURE AS APPROVED.
6. MAINTENANCE ACCESS REQUIRED TO WITHIN 10' OF CENTER OF BOTH STRUCTURES.
7. WHEN USED WITH EXTENDED DRY BASIN PROVIDE 0.4' (APPROX. 5") PERMANENT POOL DEPTH



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OVERFLOW CONTROL STRUCTURE

SCALE:

N.T.S.

REV. DATE:

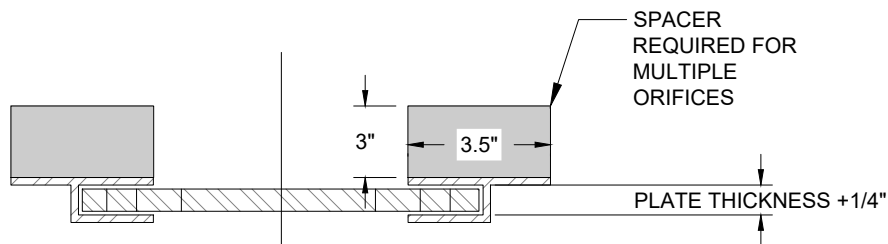
DEC 2023

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TEG

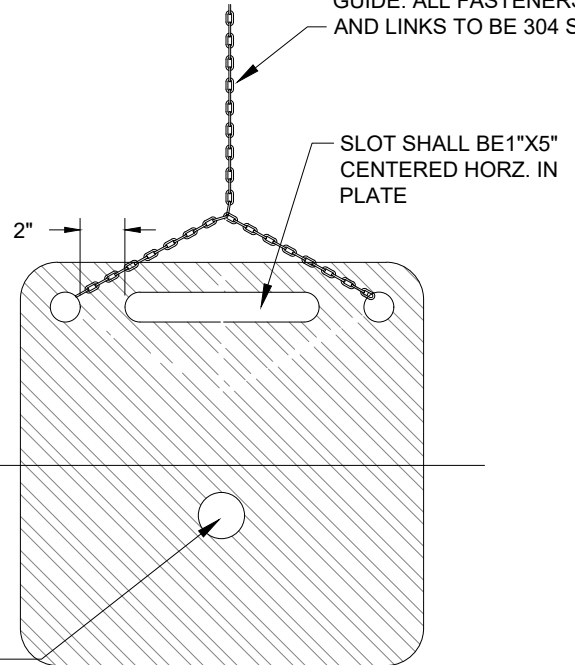
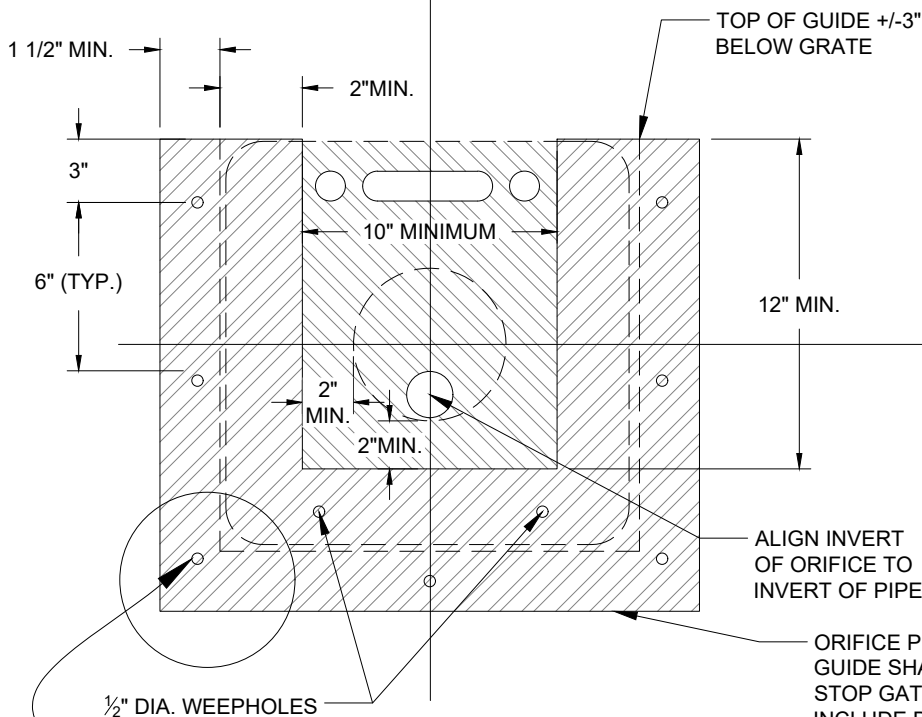
STANDARD
DRAWING:

410



**ORIFICE PLATE FRAME ASSEMBLY
PROFILE**

3/16" 304 S.S. CHAIN OR
CABLE ATTACHED TO
ORIFICE PLATE AND
STRUCTURE AS SHOWN.
CHAIN OR CABLE SHALL
BE SMALL ENOUGH TO
ALLOW ORIFICE PLATE
TO BE REMOVED FROM
GUIDE. ALL FASTENERS
AND LINKS TO BE 304 S.S.



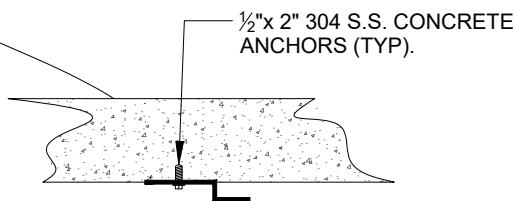
ORIFICE PLATE

ORIFICE PLATE FRAME ASSEMBLY

ALIGN INVERT
OF ORIFICE TO
INVERT OF PIPE.

ORIFICE PLATE
GUIDE SHALL FIT
STOP GATE AND
INCLUDE BOTTOM
CHANNEL ORIFICE
PLATE GUIDE.

1/2" DIA. WEEPHOLES



**FRAME ASSEMBLY
MOUNTING DETAIL**

NOTES:

1. FOR MULTIPLE ORIFICE APPLICATION A 3" MIN. SPACER IS REQUIRED AS SHOWN. SPACER TO MATCH PLATE GUIDE DIMENSIONS, WIDTH, MATERIAL WITH A WATER TIGHT SEAL.
2. DESIGN ENGINEER TO SPECIFY ORIFICE SIZE AND ELEVATION.
3. ORIFICE PLATE AND FRAME TO BE MANUFACTURED FROM 1/4" 304 STAINLESS STEEL.



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OVERFLOW ORIFICE PLATE ASSEMBLY

SCALE:

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REV. DATE:

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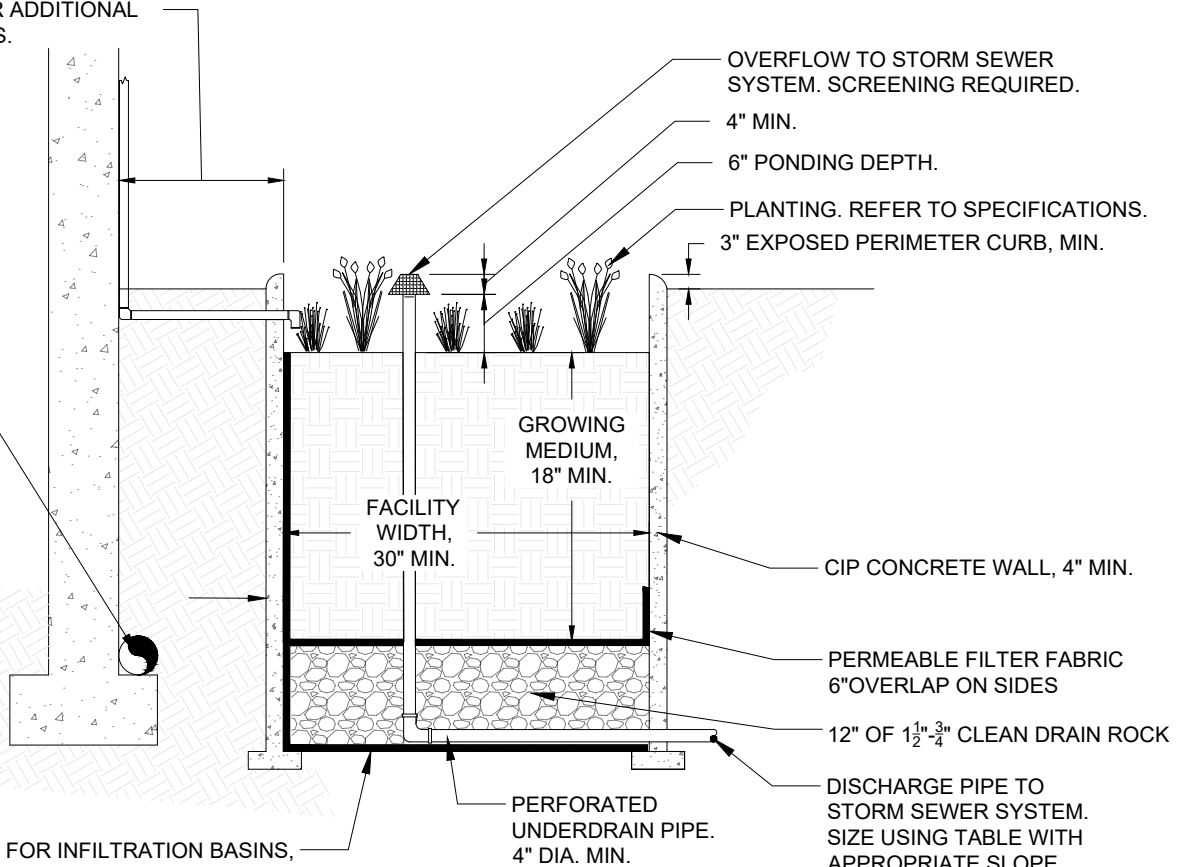
STANDARD
DRAWING:

411

BUILDING OFFSET, 10' (TYP). REFER TO LOCAL BUILDING CODE FOR ADDITIONAL REQUIREMENTS.

BUILDING FOUNDATION DRAIN (TYP). REFER TO BUILDING CODE FOR REQUIREMENTS.

PERMEABLE LINER FOR INFILTRATION BASINS, IMPERMEABLE LINER FOR FILTRATION BASINS. TO BE SPECIFIED BY DESIGN ENGINEER.



*OVERFLOW PIPE SIZE (1/8 in./ft. SLOPE)

MAX PROJECT ROOF AREA (ft.)	OVERFLOW PIPE SIZE (in.)
822	3
1,880	4
3,340	6

*OVERFLOW PIPE SIZE (1/4 in./ft. SLOPE)

MAX PROJECT ROOF AREA (ft.)	OVERFLOW PIPE SIZE (in.)
1,160	3
2,650	4
4,720	6

* TABLES ARE FOR GENERAL GUIDANCE ONLY. IF ADDITIONAL DRAINAGE IS DIVERTED TO INFILTRATION DITCH, THEN LARGER PIPE SIZE MAY BE WARRANTED. DESIGN ENGINEER SHALL SPECIFY ALL PIPE SIZES AND GRADES.

NOTES:

1. MAXIMUM SLOPE OF PLANTER 0.5%.
2. NO TREES OR DEEP ROOTED VEGETATION OVER PIPING IS ALLOWED IN FACILITY.
3. WALL PENETRATIONS FOR DISCHARGE PIPING SHALL BY CORE DRILLED. MAINTAIN MAXIMUM DISTANCE FROM THE OVERFLOW PIPE WITH DISCHARGE PIPE AS POSSIBLE.
4. PRIVATE OVERFLOW PIPE TO BE MINIMUM SPECIFIED IN PLUMBING CODE, SEE TABLE. PUBLIC FACILITIES SHALL BE SIZED TO CONVEY THE 25 YEAR STORM.
5. ENERGY DISSIPATERS REQUIRED AT WATER ENTRANCES MINIMUM 18"X18"X6" OF 4 TO 6 INCH ANGULAR RIPRAP.
6. PERMEABLE FILTER FABRIC REQUIRED BETWEEN LAYERS. INFILTRATION FACILITIES ASSUME AN UNFACTORED INFILTRATION RATE GREATER THAN 2 IN PER HOUR. ACTUAL INFILTRATION RATES SHALL BE DETERMINED BY THE DESIGN ENGINEER.
7. IMPERMEABLE LINER REQUIRED AT FACILITY BOTTOM AND ON WALLS ADJACENT TO STRUCTURES (AS SHOWN).
8. INSTALL PERFORATED PIPE ALONG LENGTH OF FACILITY. REFER TO STANDARD DRAWING 463.
9. "PARTIAL" INFILTRATION FACILITIES ARE ENCOURAGED. IMPERMEABLE LINER LOCATED AT FACILITY BOTTOM, MAY BE REMOVED FOR "PARTIAL" INFILTRATION, APPROVAL BY DESIGN PROFESSIONAL AND BUILDING DEPARTMENT REQUIRED.
10. BUILDING OFFSET MAY VARY. REFER TO LOCAL BUILDING CODE FOR DETAILS. 10 FT MINIMUM WHEN INFILTRATING.
11. MUST BE LOCATED A MINIMUM OF 3 FT FROM ADJACENT PROPERTY LINE.



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INFILTRATION/ FILTRATION BASIN

SCALE:

N.T.S.

REV. DATE:

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STANDARD
DRAWING:

412

DESIGN GUIDANCE FOR LOW IMPACT STORMWATER (LID) FACILITIES:

1. DETERMINE THE IMPERVIOUS AREA REQUIRING TREATMENT.
2. DEDUCT THE SITE AREAS DESIGNED WITH POROUS PAVEMENT OR GREEN ROOFS FROM THE IMPERVIOUS AREA CALCULATED IN STEP 1.
3. IF NEEDED, DESIGN WATER QUALITY/ QUANTITY FACILITIES FOR REMAINING UNTREATED IMPERVIOUS AREA. STANDARD INFILTRATION BASIN DETAIL ASSUMES EXISTING SOIL UNFACTORED INFILTRATION RATE OF GREATER THAN 2 INCHES PER HOUR. DESIGN ENGINEER SHALL CALCULATE ACTUAL INFILTRATION RATES AND ADJUST DESIGN ACCORDINGLY. EACH FACILITY MUST BE SIZED FOR THE AMOUNT OF IMPERVIOUS AREA DRAINING ONTO IT.
4. THE SIZING FACTORS NOTED IN THIS SECTION ARE TO BE USED TO SIZE EACH FACILITY TREATING RUNOFF FROM A MAXIMUM OF 15,000 SQUARE FEET OF IMPERVIOUS AREA IN EACH FACILITY. FOR LARGE DEVELOPMENT SITES AND IMPERVIOUS AREAS, A REGIONAL WATER QUALITY/ QUANTITY FACILITY (VEGETATED SWALE, EXTENDED DRY BASIN OR CONSTRUCTED WATER QUALITY WETLAND) OR PROPRIETARY FACILITY MAY BE APPROPRIATE, AS DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.

GENERAL NOTES:

1. FOR FACILITY SIZING REFERENCE DRAWING SD412, LID SIZING FORM.
2. ENERGY DISSIPATERS REQUIRED AT ALL ENTRY POINTS INTO THE FACILITY, MINIMUM OF 18"X18"X 6" DEEP, 4" TO 6" CLEAN ANGULAR RIP RAP.
3. DISCHARGES INTO NATIVE SOILS WILL REQUIRE INFILTRATION TESTING COMPLETED BY A REGISTERED DESIGN PROFESSIONAL.

GROWING MEDIUM NOTES:

THE GROWING MEDIUM SHALL BE ONE THIRD ORGANIC COMPOST, ONE THIRD GRAVELY SAND AND ONE THIRD TOP SOIL.

1. ORGANIC COMPOST SHALL BE THE RESULT OF BIOLOGICAL DEGRADATION AND TRANSFORMATION OF PLANT DERIVED MATERIALS UNDER CONDITIONS DESIGNED TO PROMOTE AEROBIC DECOMPOSITION, FREE OF VIABLE WEED SEEDS AND STABLE WITH REGARD TO OXYGEN CONSUMPTION AND CARBON DIOXIDE GENERATION, AND OTHERWISE CONFORMING TO THE US COMPOSTING COUNCIL COMPOST TECHNICAL DATA SHEET; WWW.COMPOSTINGCOUNCIL.ORG.
2. GRAVELY SAND SHALL BE 1" MINUS IN CONFORMANCE WITH ASTM C117/C136 (AASHTO T11/T27) STANDARDS WITH A COEFFICIENT OF UNIFORMITY (D60/D10) EQUAL TO OR GREATER THAN 6.
3. TOP SOIL SHALL BE FREE OF WOOD PIECES, PLASTIC, AND OTHER FOREIGN MATTER, CHEMICAL AND BIOLOGICAL POLLUTANTS, AND CONTAIN NO VISIBLE FREE WATER.



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LID DESIGN GUIDANCE

SCALE:

N.T.S.

REV. DATE:

DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

413

Low-Impact Stormwater Design (LID) Sizing Form

(Include this form with plan submittal)

Project Title: _____

Project Address: _____

Project Taxlot/ Taxmap#: _____

Project Location: _____

Contact Name/Title/Company: _____

Phone/e-mail: _____

STEP 1: Determine Impervious Area Requiring Treatment

Total Gross Site Area (acres): Pre. Dev. Impervious Area (ft): (X)

Proposed Net New Impervious Area (ft): (PA) Post Dev. Impervious Area (ft): (Y)

(PA) = (Y) - (X)

STEP 2: Deduct Impervious Area LIDA Credits

Porous Pavement (sq. ft.): (P)

Green Roof (sq. ft.): (G)

Other Credits as approved (sq. ft.): (O)

Total Credits (sq. ft.): (C)

(C) = (P) + (G) + (O)

Impervious Area
Requiring Treatment (sq. ft.): (IA)

(IA) = (PA) - (C)

STEP 3: Size LID Facilities for Remaining Impervious Area

	Impervious Area Treated (sq. ft.)	SF, Sizing Factor	LIDA Facility Size (sq. ft.)
Infiltration Planters/ Rain Garden		0.045	
Flow-through Planter		0.060	
Public Flow-through Planter		0.060	

Total Impervious Area
Treated (sq. ft.) MUST BE EQUAL TO (IA)



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**LID
SIZING
CRITERIA**

SCALE:

N.T.S.

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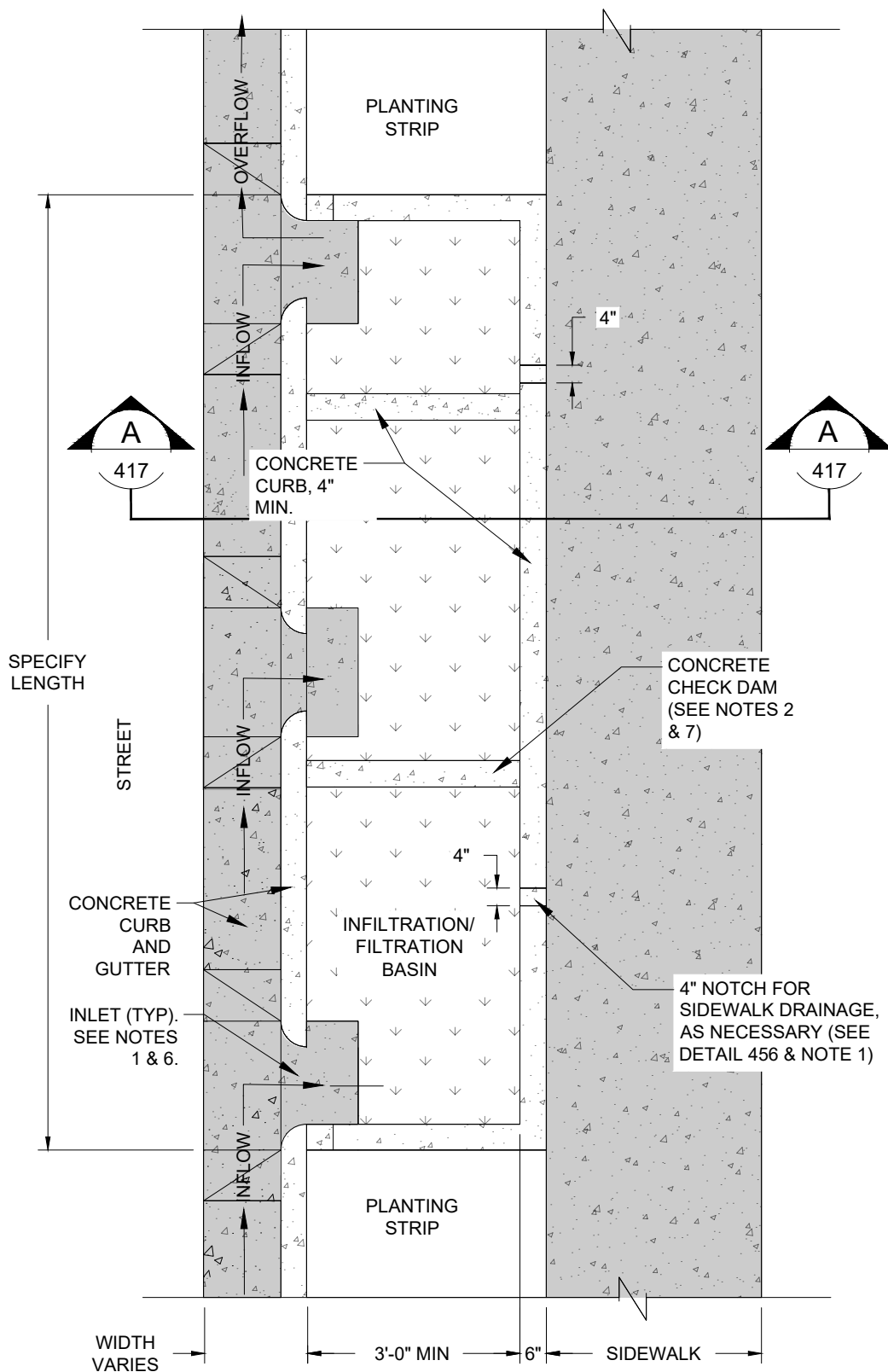
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STANDARD
DRAWING:

414



DESIGN NOTES:

1. PROVIDE BEGINNING AND END STATION FOR EACH FACILITY. PROVIDE STATIONING AND/ OR DIMENSIONS AND ELEVATIONS AT EACH INLET, OUTLET, CHECK DAM, PLANTER CORNER AND SIDEWALK NOTCHES.
2. SIDEWALK ELEVATION MUST BE SET ABOVE CHECK DAM AND INLET ELEVATIONS TO ALLOW OVERFLOW TO DRAIN TO STREET BEFORE SIDEWALK.
3. EXISTING UTILITY LINES MUST BE SLEEVED OR RELOCATED. PROPOSED UTILITY LINES TO BE LOCATED OUT OF FACILITY.
4. LONGITUDINAL SLOPE OF PLANTER TO MATCH ROAD.
5. MINIMUM INTERIOR PLANTER WIDTH IS 3 FEET. A MINIMUM OF 4 FEET IS REQUIRED FOR PLANTERS WITH STREET TREES. TREES ARE NOT ALLOWED IN BASIN.



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R.O.W. NO-PKG INFILTRATION/ FILTRATION BASIN

SCALE:

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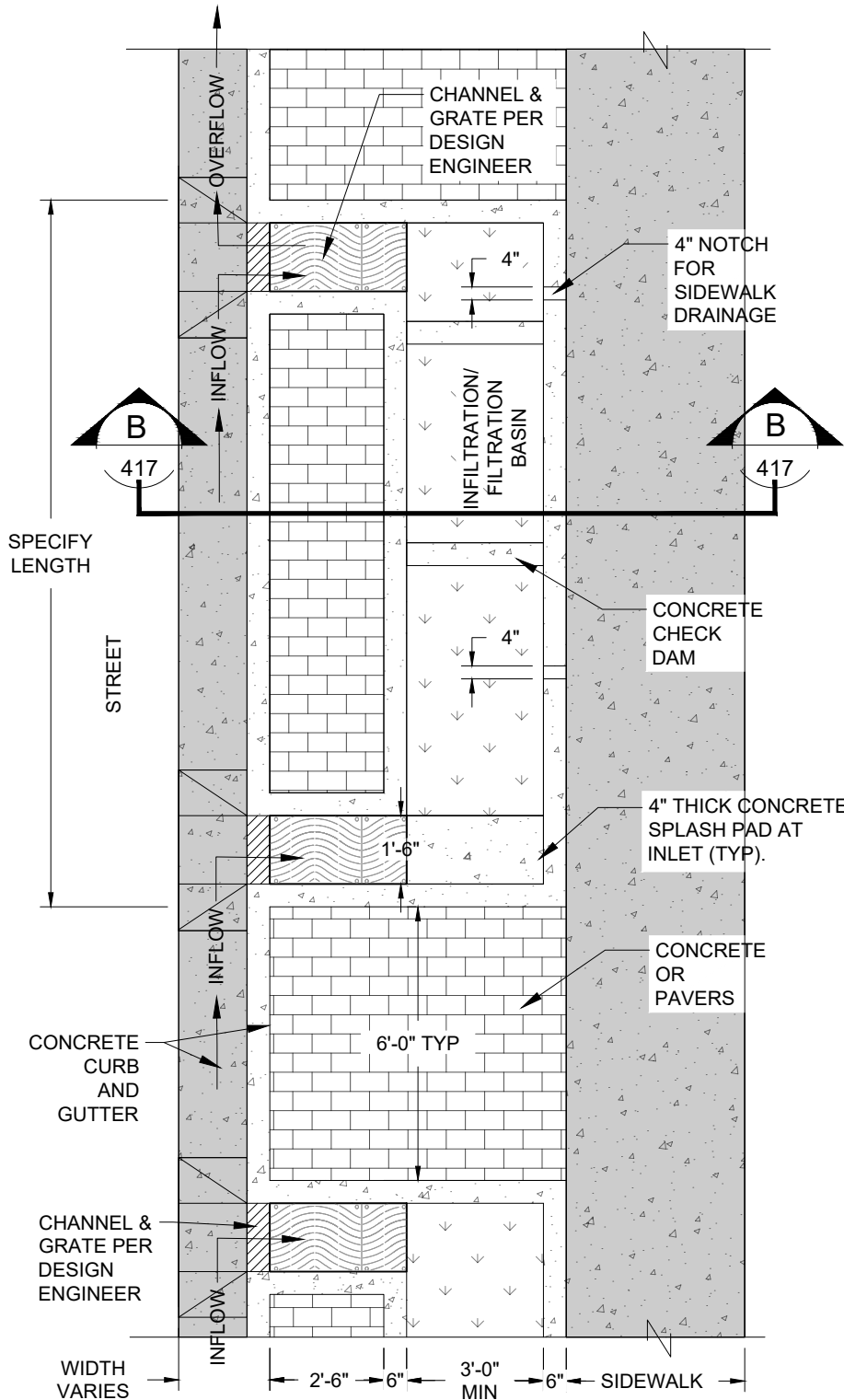
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

415



DESIGN NOTES:

1. PROVIDE BEGINNING AND END STATION FOR EACH FACILITY. PROVIDE STATIONING AND OR DIMENSIONS AND ELEVATIONS AT EACH INLET, OUTLET, CHECK DAM, PLANTER CORNER AND SIDEWALK NOTCHES.
2. SIDEWALK ELEVATION MUST BE SET ABOVE CHECK DAM AND INLET ELEVATIONS TO ALLOW OVERFLOW TO DRAIN TO STREET BEFORE SIDEWALK.
3. EXISTING UTILITY LINES MUST BE SLEEVED OR RELOCATED. PROPOSED UTILITY LINES TO BE LOCATED OUT OF FACILITY.
4. LONGITUDINAL SLOPE OF PLANTER TO MATCH ROAD.
5. MINIMUM INTERIOR PLANTER WIDTH IS 3 FEET. TREES ARE NOT ALLOWED IN BASIN.



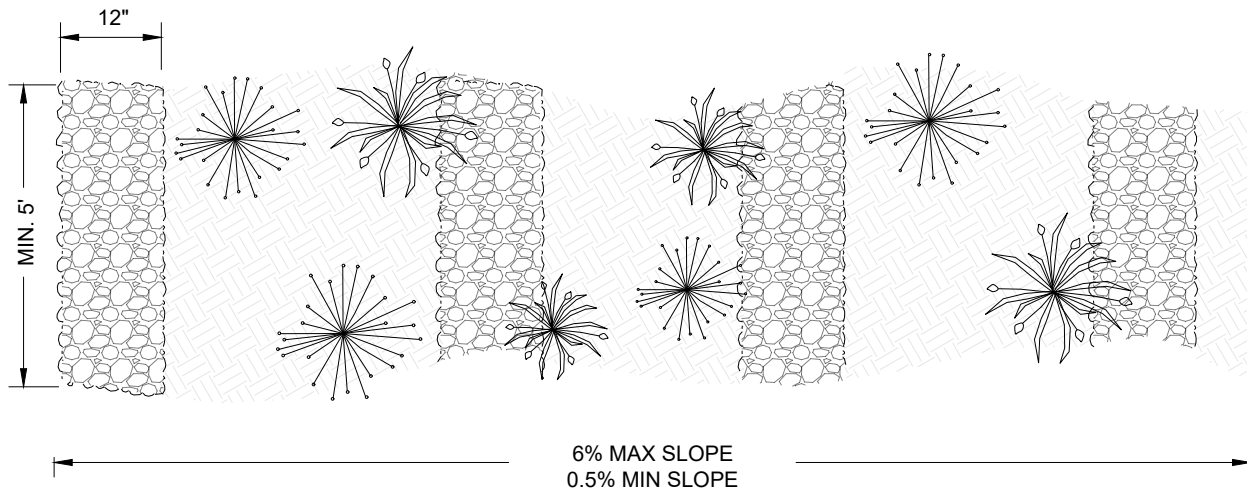
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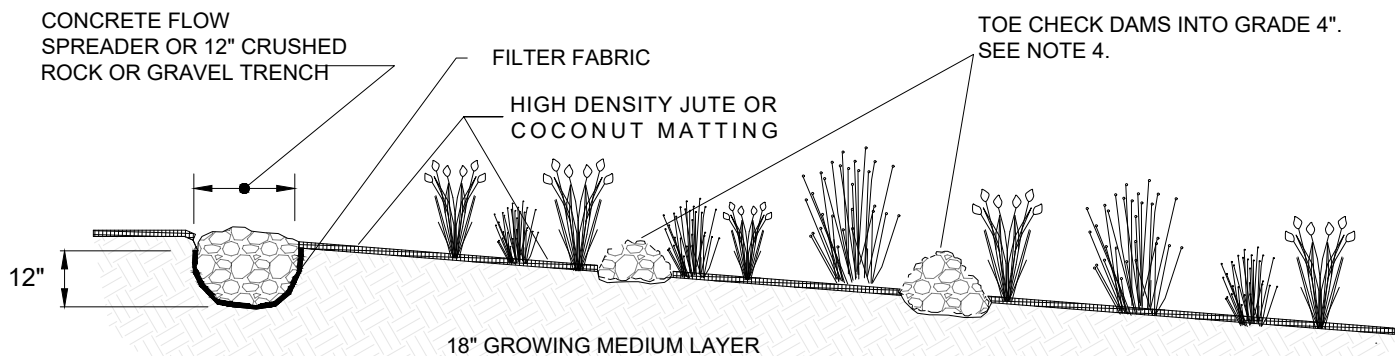
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R.O.W. W/PKG INFILTRATION/ FILTRATION BASIN

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	416



PLAN



PROFILE

NOTES:

1. COLLECTION AND CONVEYANCE OF OVERFLOW FROM FILTER STRIP SHALL BE SPECIFIED ON PLANS TO APPROVED PUBLIC CONVEYANCE SYSTEM.
2. ENTIRE FILTER STRIP MUST HAVE 100% COVERAGE BY APPROVED, NATIVE GRASSES, WILDFLOWER BLENDS, GROUND COVERS, OR ANY COMBINATION THEREOF.
3. A GRADE BOARD, SPREADER, OR SAND/GRAVEL TRENCH MAY BE REQUIRED TO DISPERSE THE RUNOFF EVENLY ACROSS THE FILTER STRIP TO PREVENT POINT OF DISCHARGE/ CHANNELIZATION. THE TOP OF THE LEVEL SPREADER MUST BE HORIZONTAL AND AT AN APPROPRIATE HEIGHT TO PROVIDE SHEET FLOW DIRECTLY TO THE SOIL WITHOUT SCOUR. LEVEL SPREADERS SHALL NOT HOLD A PERMANENT VOLUME OF RUNOFF. SPREADERS MAY BE CONCRETE. TRENCHES USED AS LEVEL SPREADERS CAN BE FILLED WITH WASHED CRUSHED ROCK, PEA GRAVEL OR SAND.
4. CHECK DAMS SHALL BE PLACED AS FOLLOWS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER:
 - A. CONSTRUCTED OF 2.5" TO 4.5" CLEAR ROCK.
 - B. EQUAL TO THE WIDTH OF THE FILTER STRIP.
 - C. PLACED EVERY 10' WHERE SLOPE EXCEEDS 5%, 12" HEIGHT.



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VEGETATED FILTER STRIP

SCALE:

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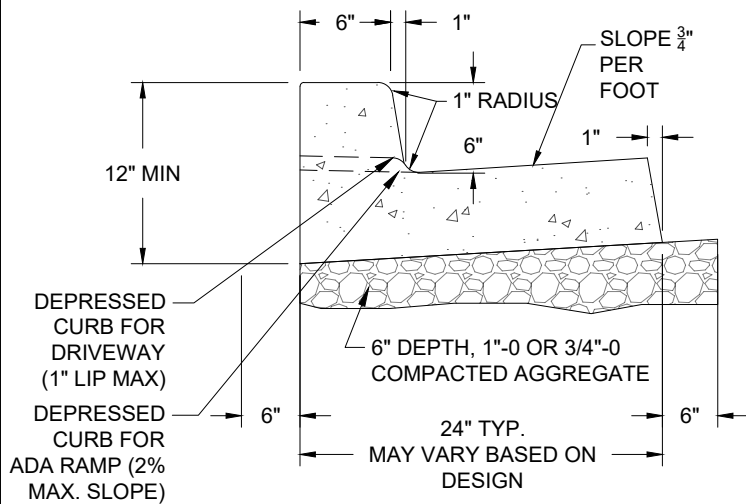
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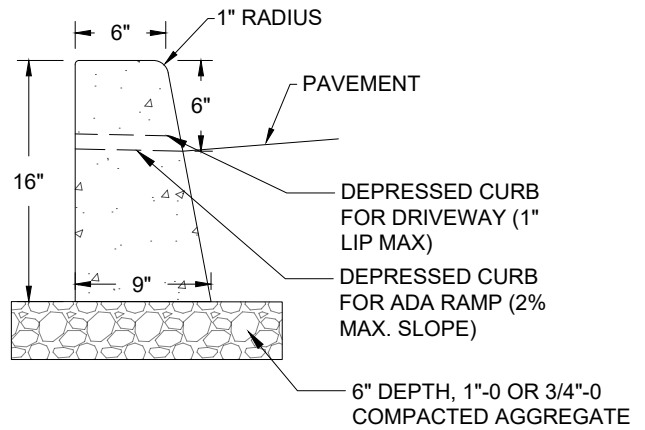
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DRAWING:

418



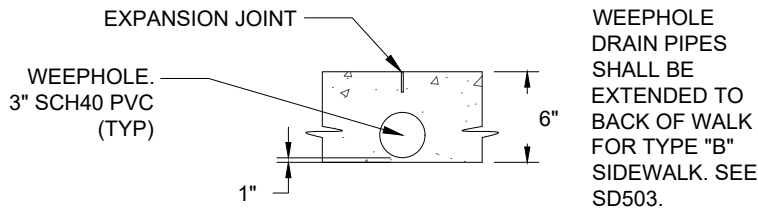
TYPICAL INTEGRAL CURB & GUTTER



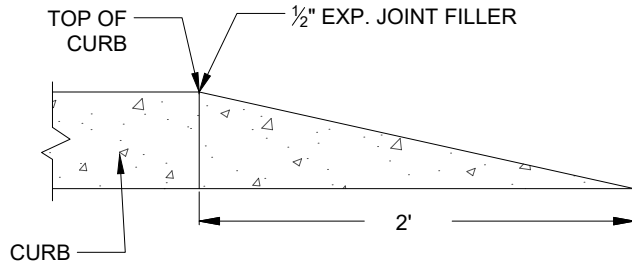
TYPE C CURB

NOTES:

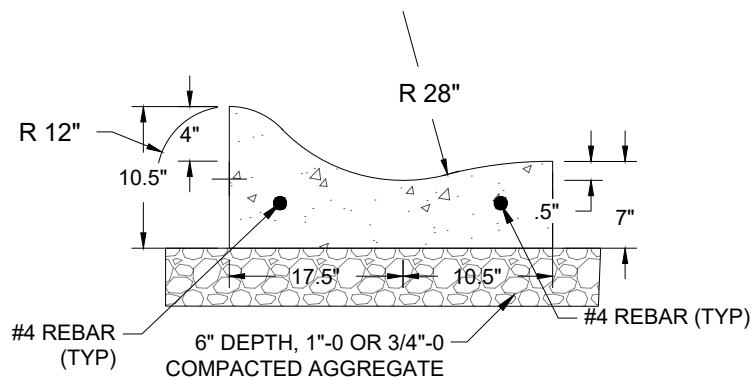
- A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
- CURB STRUCTURES SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
- CONTRACTION JOINTS
 - TO BE PROVIDED
 - AT EACH POINT OF TANGENCY
 - AT EACH SIDE OF INLET STRUCTURES
 - AT BOTH SIDES OF AN APPROACH
 - SPACING TO BE NOT MORE THAN 15 FEET
 - DEPTH OF JOINT SHALL BE AT LEAST 1/3 THICKNESS OF CONCRETE
- EXPANSION JOINTS
 - TO BE PROVIDED
 - AT EACH COLD JOINT
 - AT EACH JOINT BETWEEN NEW AND EXISTING CONCRETE
 - EXPANSION JOINTS IN CURB & GUTTER SHALL BE PLACED AT MAX 45' INTERVALS
 - DEPTH OF JOINT SHALL BE EQUAL TO THICKNESS OF CONCRETE
 - EXPANSION JOINTS SHALL USE PREFORMED EXPANSION JOINT FILLER
- WEEPHOLES
 - DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
 - CORE DRILLING, OR
 - VERTICAL SAWCUT OF CURB 18" EACH SIDE OF DRAIN AND RE-POURED (WITH DOWELS BOTH SIDES INTO EXISTING CUT) TO FULL DEPTH OF CURB OR CURB & GUTTER
- STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING AS SPECIFIED.
- SEE DRIVEWAY APRON DETAILS SD 508 AND SD509.
- TYPE C CURB MAY BE USED FOR REPLACEMENT OF EXISTING TYPE C CURBS ONLY UPON APPROVAL BY CITY ENGINEER.



WEEPHOLES



CURB ENDING DETAIL



SURMOUNTABLE CURB



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**CURB
DETAILS**

SCALE:

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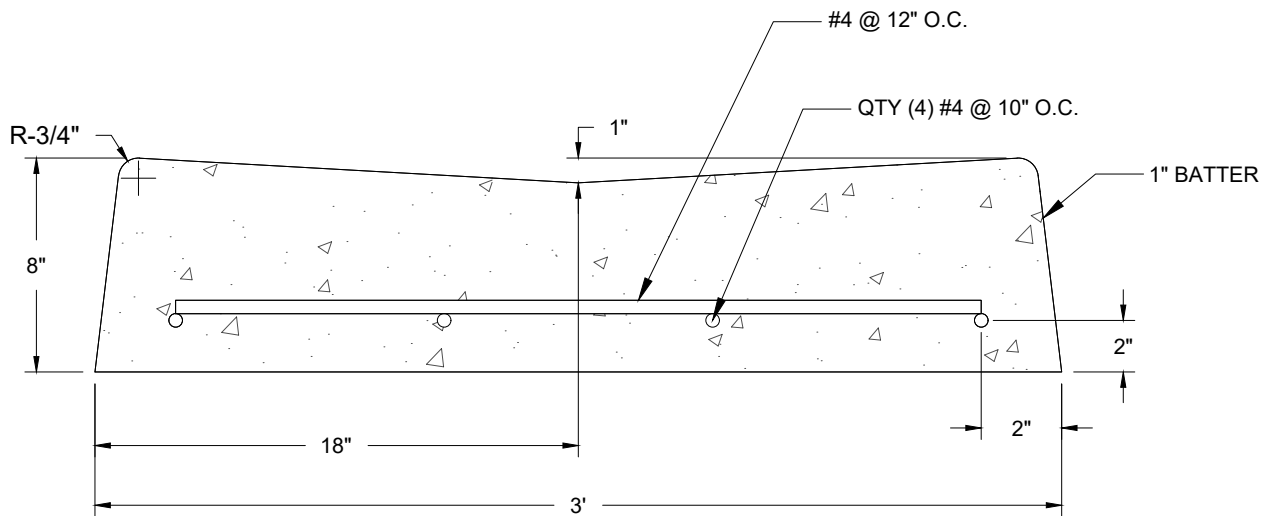
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APPROVED BY:

TEG

STANDARD
DRAWING:

501



NOTES:

1. CONCRETE MIX: 4,000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR. A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. CONCRETE SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
3. CONTRACTION JOINTS
 - A) TO BE PROVIDED
 - AT EACH POINT OF TANGENCY
 - AT EACH SIDE OF INLET STRUCTURES
 - AT BOTH SIDES OF AN APPROACH
 - B) SPACING TO BE NOT MORE THAN 15 FEET
 - C) DEPTH OF JOINT SHALL BE AT LEAST 1/3 THICKNESS OF CONCRETE
3. EXPANSION JOINTS
 - A) TO BE PROVIDED
 - AT EACH COLD JOINT
 - AT EACH JOINT BETWEEN NEW AND EXISTING CONCRETE
 - B) EXPANSION JOINTS IN CURB & GUTTER SHALL BE PLACED AT MAX 45' INTERVALS
 - C) DEPTH OF JOINT SHALL BE EQUAL TO THICKNESS OF CONCRETE
 - D) EXPANSION JOINTS SHALL USE PREFORMED EXPANSION JOINT FILLER



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Yachats, OR 97498

Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

CONCRETE VALLEY GUTTER

SCALE:

N.T.S.

REV. DATE:

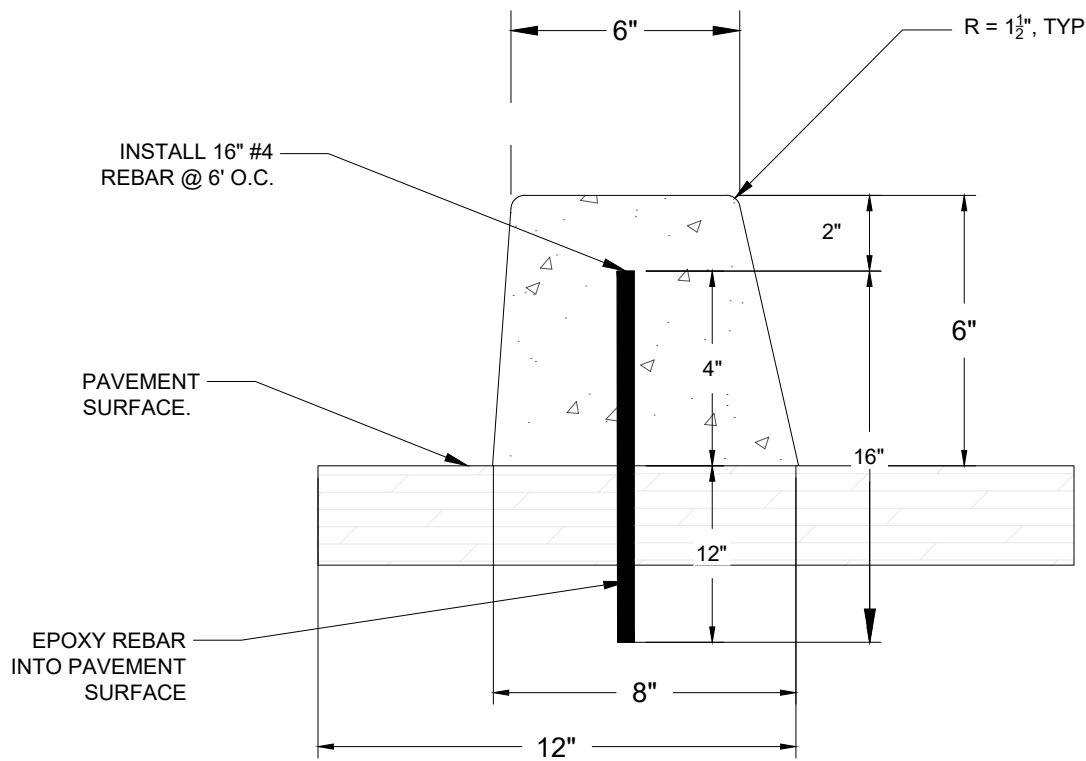
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

502



NOTES:

1. CONCRETE MIX: 4,000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR. A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. CONCRETE SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
3. DOWEL NEW CURB TO EXISTING CURB WITH #4 DOWEL BAR WITH 6" PENETRATION.
4. REBAR SHALL HAVE A MINIMUM 2" CONCRETE COVER FROM OUTSIDE CONCRETE EDGE.
5. CONCRETE SHALL HAVE A MEDIUM BROOM FINISH.
6. CONTRACTION JOINTS
 - A) TO BE PROVIDED
 - AT EACH POINT OF TANGENCY
 - AT EACH SIDE OF INLET STRUCTURES
 - AT BOTH SIDES OF AN APPROACH
 - B) SPACING TO BE NOT MORE THAN 15 FEET
 - C) DEPTH OF JOINT SHALL BE AT LEAST 1/3 THICKNESS OF CONCRETE
3. EXPANSION JOINTS
 - A) TO BE PROVIDED
 - AT EACH COLD JOINT
 - AT EACH JOINT BETWEEN NEW AND EXISTING CONCRETE
 - B) EXPANSION JOINTS IN CURB & GUTTER SHALL BE PLACED AT MAX 45' INTERVALS
 - C) DEPTH OF JOINT SHALL BE EQUAL TO THICKNESS OF CONCRETE
 - D) EXPANSION JOINTS SHALL USE PREFORMED EXPANSION JOINT FILLER



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EXTRUDED CURB

SCALE:

N.T.S.

REV. DATE:

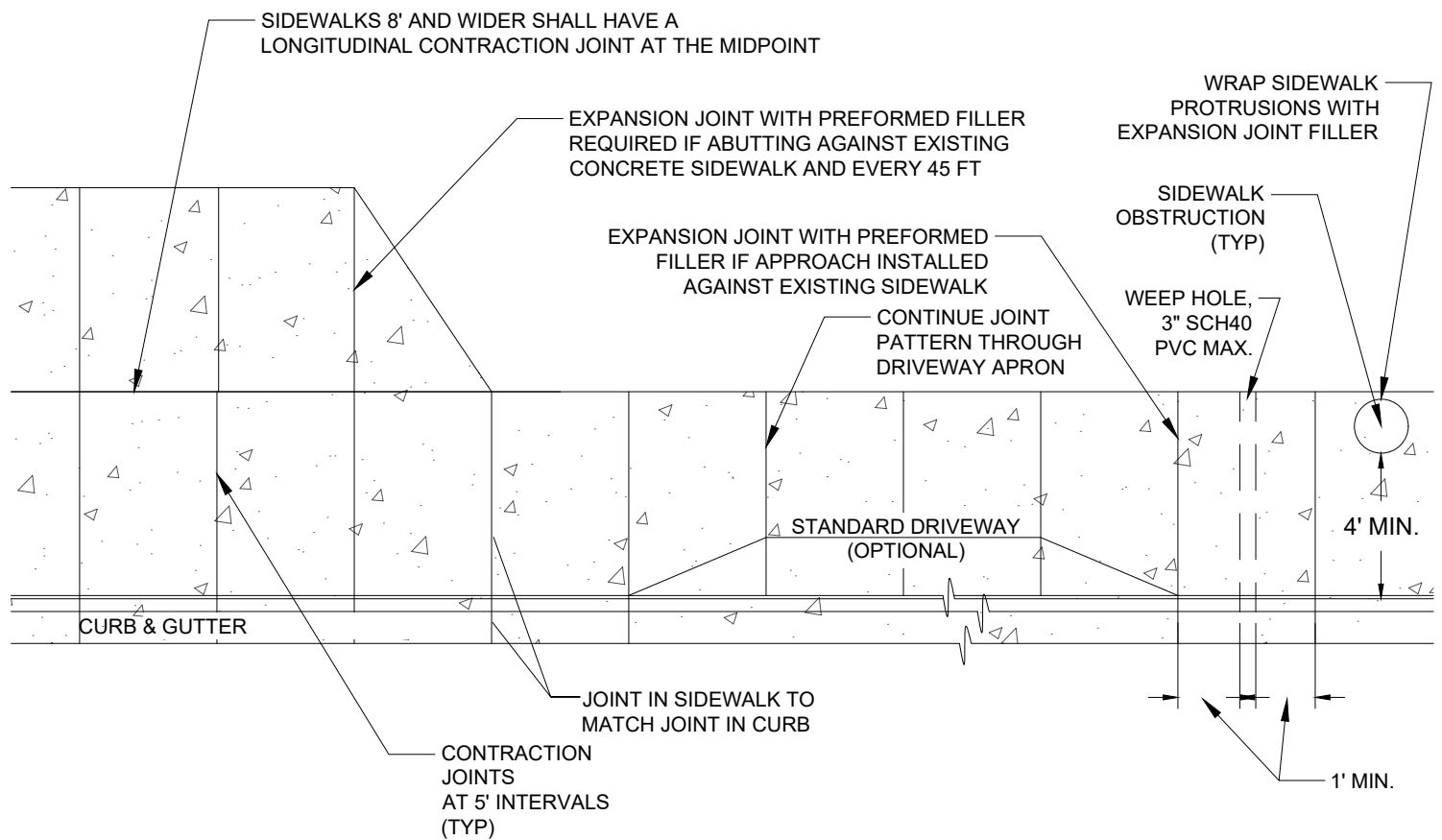
DEC 2023

APPROVED BY:

TEG

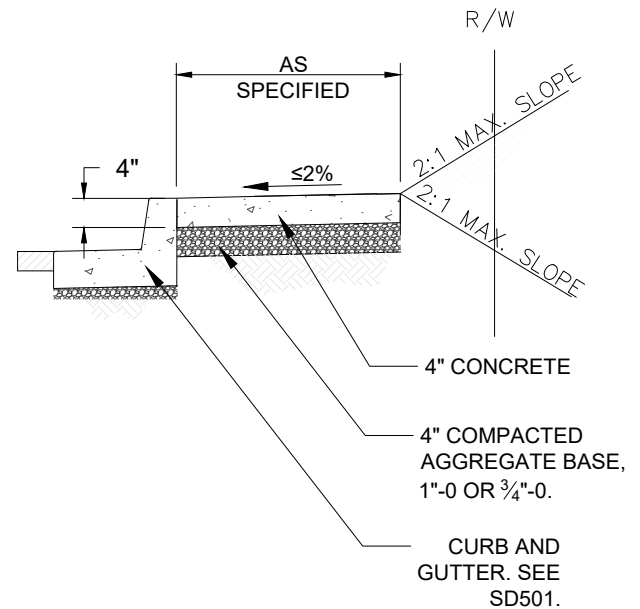
STANDARD
DRAWING:

503



NOTES:

1. A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. STRUCTURES SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
3. STANDARD SIDEWALK CROSS SLOPE SHALL BE 2% TOWARD THE STREET. WHEN THE ADJACENT PROPERTY IS LOWER THAN THE TOP OF THE CURB, SIDEWALK MAY SLOPE AWAY FROM STREET.
4. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIA. SCH40 PVC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE. NO COUPLINGS UNDER SIDEWALK. OUTFALL AT FACE OF CURB SHALL BE AT GUTTER PAN ELEVATION.
5. SEE STANDARD ADA RAMP DETAILS ODOT STANDARD DRAWING RD744 AND CITY DRAWINGS SD 506 AND SD507.
6. SEE SD508 SD509 AND SD510 FOR DRIVEWAYS.
7. WRAP PROTRUDING STRUCTURES IN SIDEWALKS WITH PREFORMED EXPANSION JOINT FILLER.



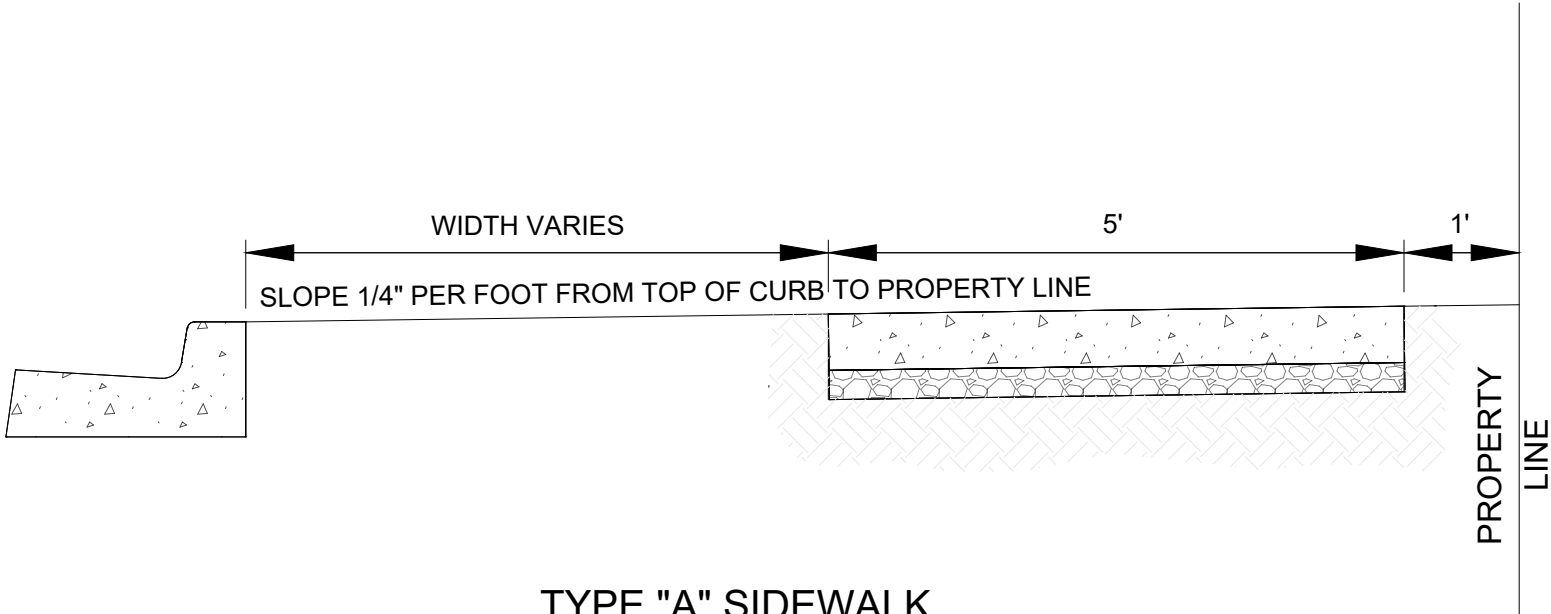
City of Yachats

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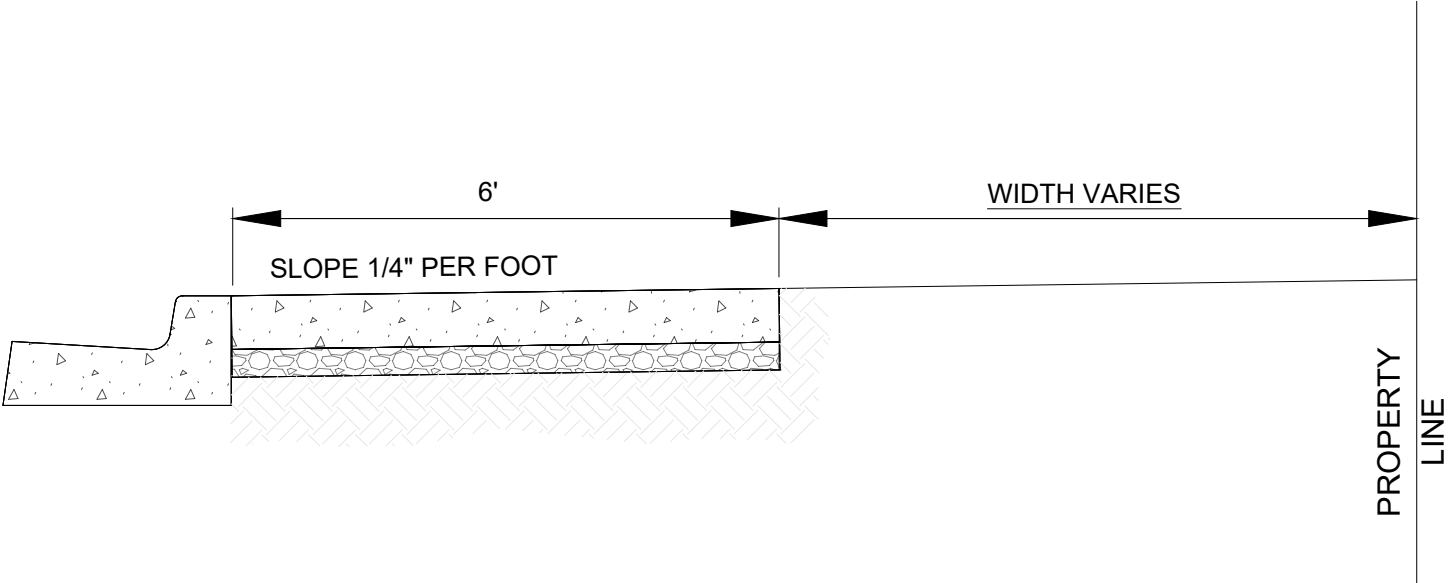
Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

STANDARD SIDEWALK DETAILS

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	504



TYPE "A" SIDEWALK



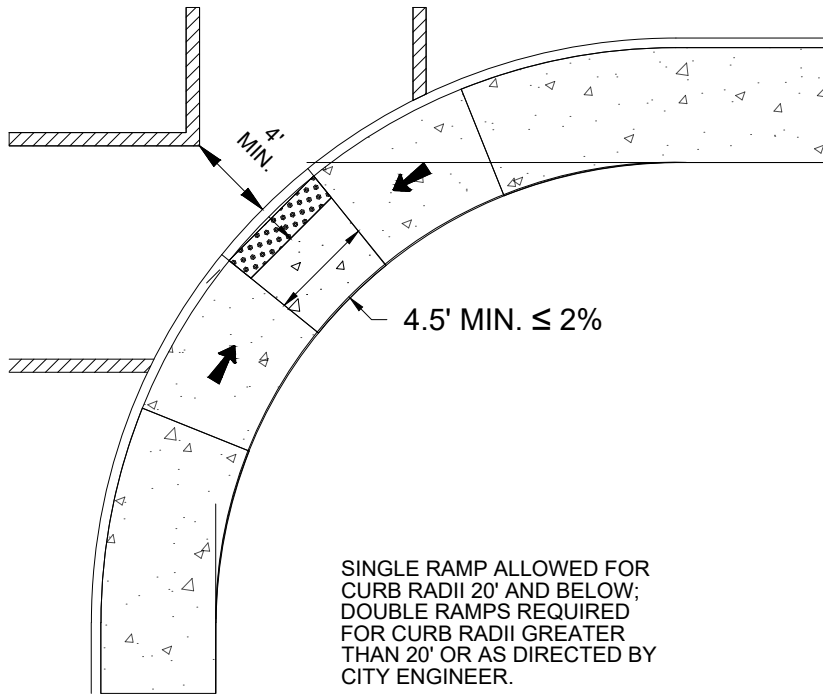
TYPE "B" SIDEWALK



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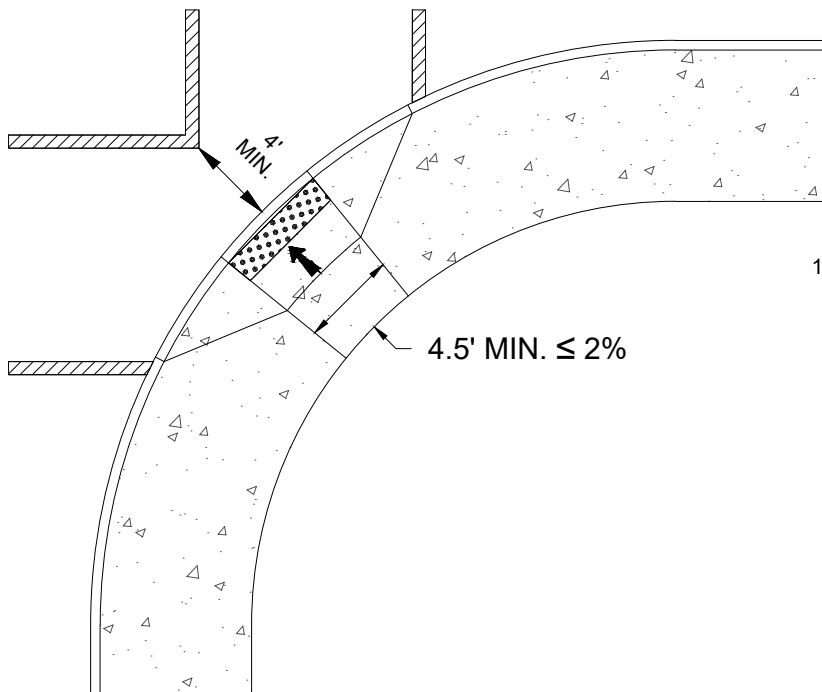
**SIDEWALK
 TYPE**

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	505

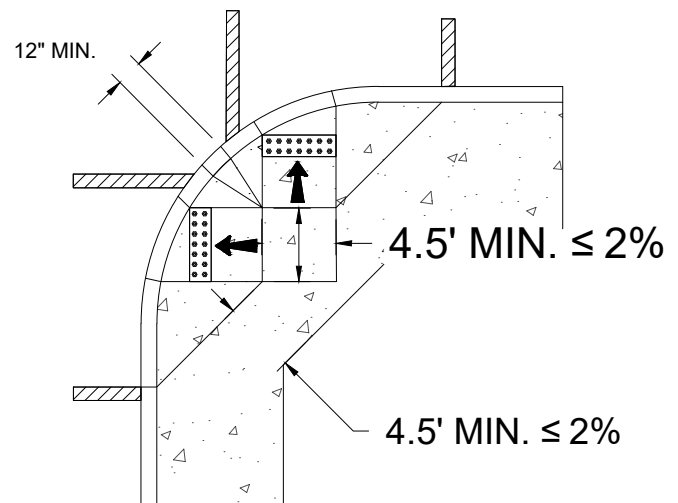


NOTES:

1. SIDEWALK RAMP DETAILS ARE BASED ON UNITED STATES ACCESS BOARD STANDARDS.
2. ALL SIDEWALK AND RAMP GRADES SHALL MEET ADA STANDARDS.
3. TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAK LINES.
4. SIDEWALK CURB RAMP SLOPES SHOWN ARE RELATIVE TO THE TRUE LEVEL HORIZON (ZERO BUBBLE).
5. PLACE TRUNCATED DOME DETECTABLE WARNING SURFACE IN THROAT OF RAMP CLOSEST TO STREET. REFER TO ODOT STANDARD DRAWING RD758 & RD759 FOR TRUNCATED DOME PLACEMENT.
6. CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN RAMP PATHWAY.
7. CROSSWALK LINES WHERE REQUIRED MUST BE AS PER STRIPING PLAN APPROVED BY THE CITY ENGINEER.
8. SEE STANDARD SIDEWALK DETAIL SD504 FOR ADDITIONAL INFORMATION.
9. CONFORM WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, SECTION 3B.18 FOR PEDESTRIAN CROSSWALK MARKINGS.



COMBINATION RAMP (FOR WIDE SIDEWALKS;
USE IN ALTERATIONS ONLY AND WHEN SITE
CONSTRAINTS PROHIBIT INSTALLING TWO RAMPs)



PERPENDICULAR RAMP
(FOR NARROW SIDEWALKS)



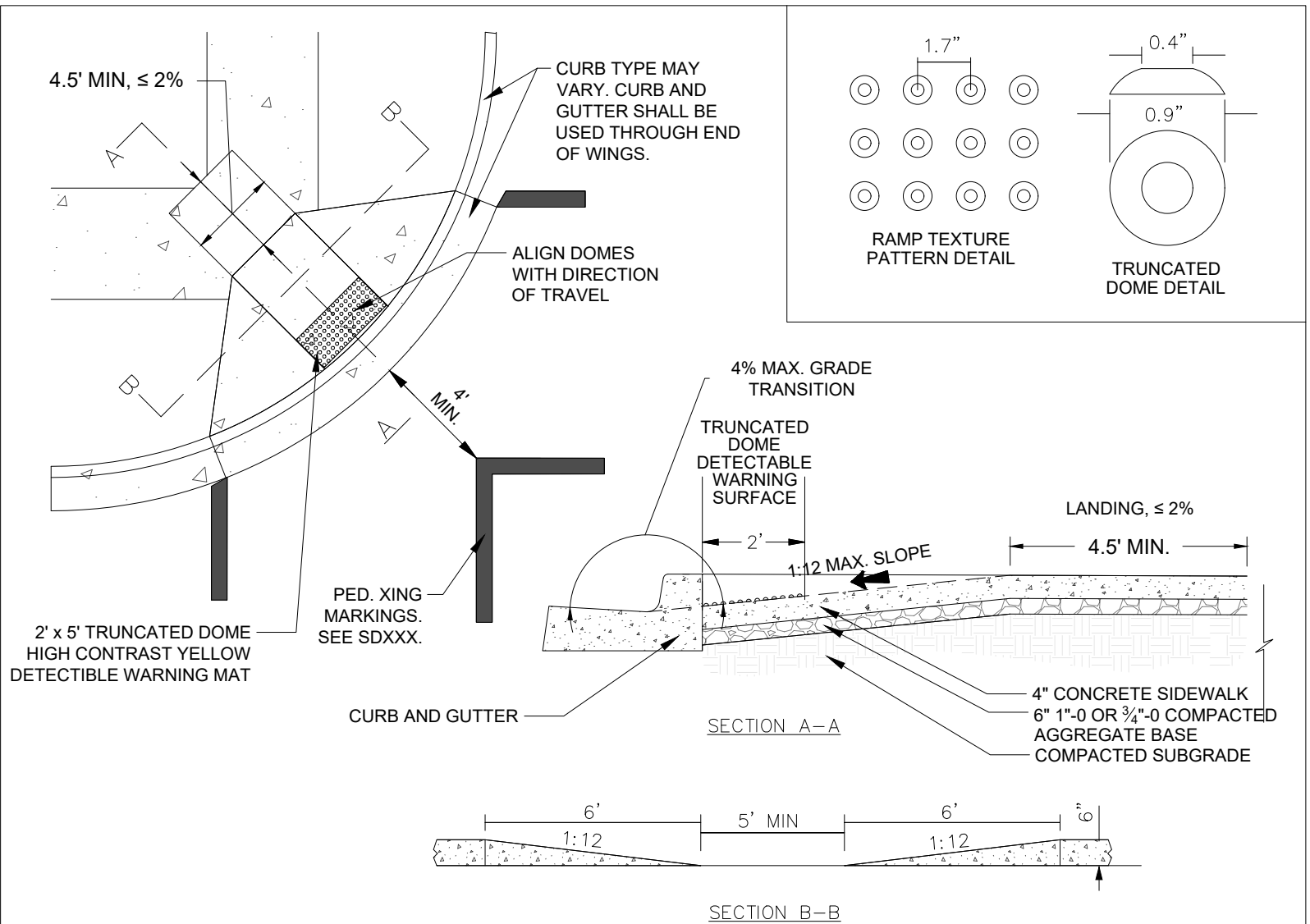
City of Yachats

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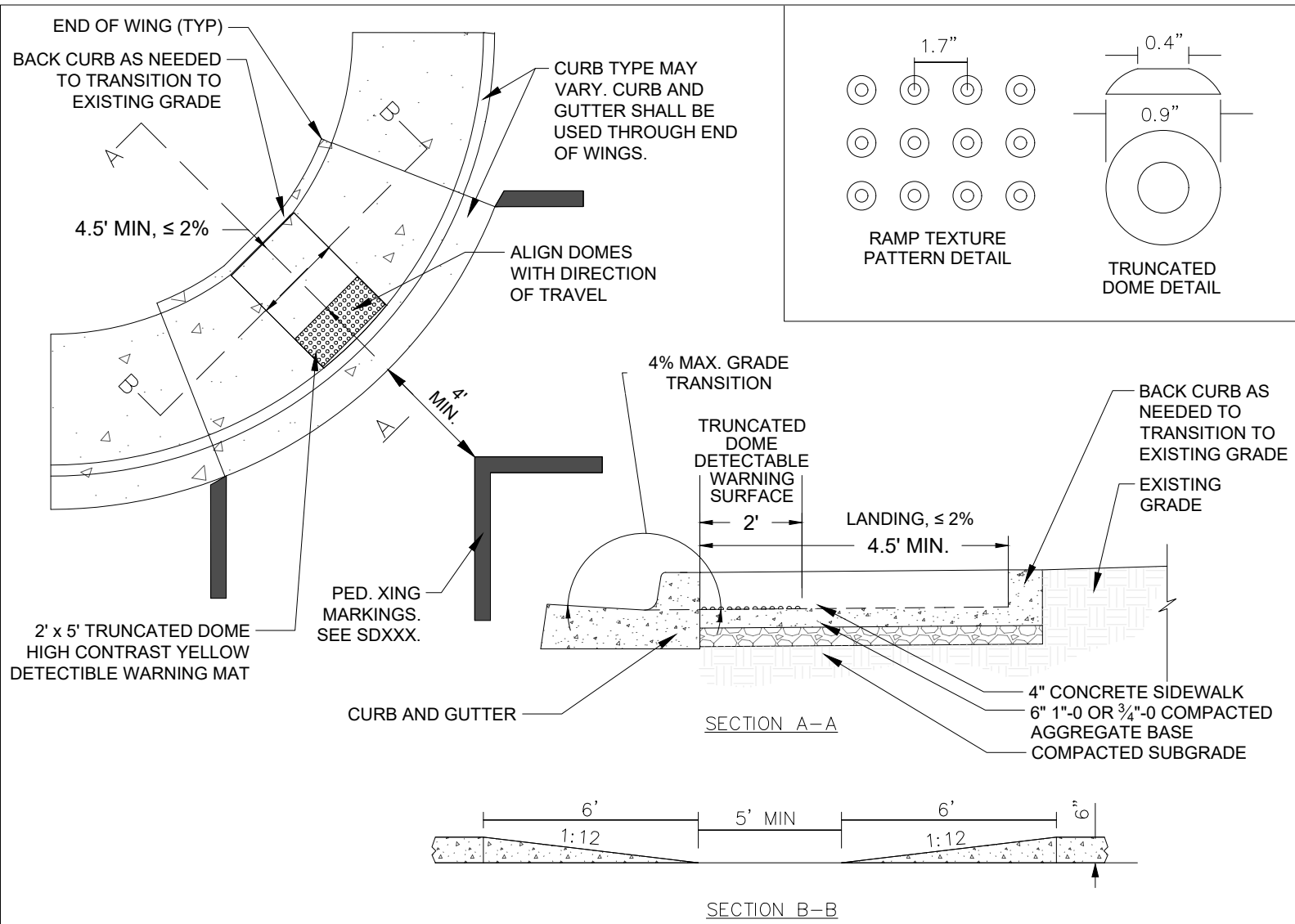
Phone: 541-547-3565
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ADA RAMP LOCATION

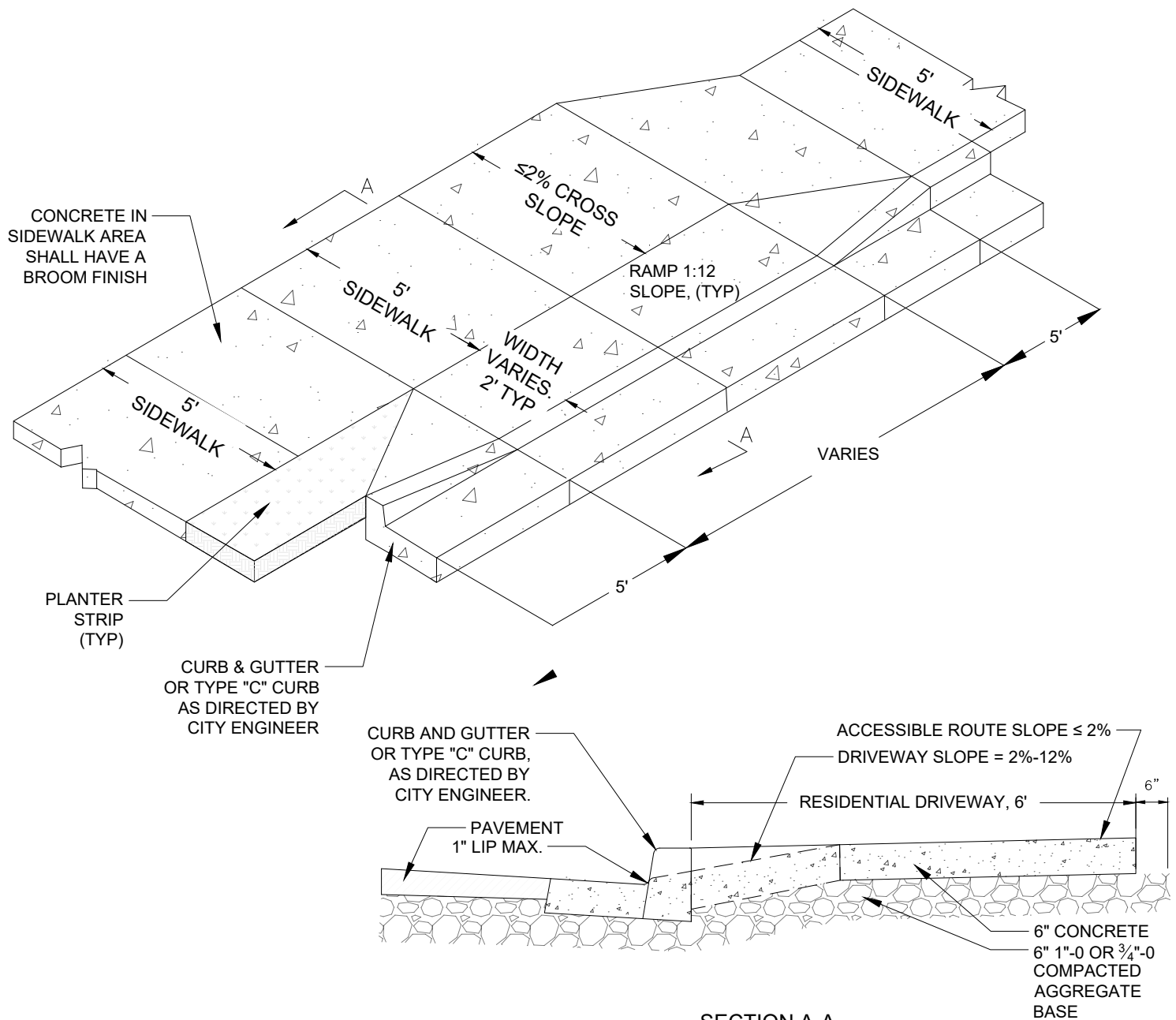
SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	506



- NOTES:
1. SIDEWALK RAMP DETAILS ARE BASED ON UNITED STATES ACCESS BOARD STANDARDS.
 2. ALL SIDEWALK AND RAMP GRADES SHALL MEET ADA STANDARDS.
 3. TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAK LINES.
 4. SIDEWALK CURB RAMP SLOPES SHOWN ARE RELATIVE TO THE TRUE LEVEL HORIZON (ZERO BUBBLE).
 5. PLACE TRUNCATED DOME DETECTABLE WARNING SURFACE IN THROAT OF RAMP CLOSEST TO STREET. REFER TO ODOT STANDARD DRAWING RD758 & RD759 FOR TRUNCATED DOME PLACEMENT.
 6. CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN RAMP PATHWAY.
 7. CROSSWALK LINES WHERE REQUIRED MUST BE AS PER STRIPING PLAN APPROVED BY THE CITY ENGINEER.
 8. SEE STANDARD SIDEWALK DETAIL SD503 FOR ADDITIONAL INFORMATION.
 9. CONFORM WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, SECTION 3B.18 FOR PEDESTRIAN CROSSWALK MARKINGS.
 10. DETECTIBLE SURFACE SHALL BE CONSTRUCTED WITH PREFABRICATED UNITS. TEXTURE SHALL NOT BE WET IMPRINTED.
 11. TRUNCATED DOME PATTERN SHALL BE INLINE, ALIGNED IN THE DIRECTION OF THE RAMP.
 12. DETECTIBLE SURFACE SHALL BE YELLOW (FEDERAL COLOR #33538).
 13. SINGLE RAMP ALLOWED FOR CURB RADII 20' AND BELOW; DOUBLE RAMPS REQUIRED FOR CURB RADII GREATER THAN 20' OR AS DIRECTED BY CITY ENGINEER.
 14. FOR STANDARD SIDEWALK DETAILS REFER TO DRAWING SD504.



- NOTES:
1. SIDEWALK RAMP DETAILS ARE BASED ON UNITED STATES ACCESS BOARD STANDARDS.
 2. ALL SIDEWALK AND RAMP GRADES SHALL MEET ADA STANDARDS.
 3. TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAK LINES.
 4. SIDEWALK CURB RAMP SLOPES SHOWN ARE RELATIVE TO THE TRUE LEVEL HORIZON (ZERO BUBBLE).
 5. PLACE TRUNCATED DOME DETECTABLE WARNING SURFACE IN THROAT OF RAMP CLOSEST TO STREET. REFER TO ODOT STANDARD DRAWING RD758 & RD759 FOR TRUNCATED DOME PLACEMENT.
 6. CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN RAMP PATHWAY.
 7. CROSSWALK LINES WHERE REQUIRED MUST BE AS PER STRIPING PLAN APPROVED BY THE CITY ENGINEER.
 8. SEE STANDARD SIDEWALK DETAIL SD503 FOR ADDITIONAL INFORMATION.
 9. CONFORM WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, SECTION 3B.18 FOR PEDESTRIAN CROSSWALK MARKINGS.
 10. DETECTIBLE SURFACE SHALL BE CONSTRUCTED WITH PREFABRICATED UNITS. TEXTURE SHALL NOT BE WET IMPRINTED.
 11. TRUNCATED DOME PATTERN SHALL BE INLINE, ALIGNED IN THE DIRECTION OF THE RAMP.
 12. DETECTIBLE SURFACE SHALL BE YELLOW (FEDERAL COLOR #33538).
 13. SINGLE RAMP ALLOWED FOR CURB RADII 20' AND BELOW; DOUBLE RAMPS REQUIRED FOR CURB RADII GREATER THAN 20' OR AS DIRECTED BY CITY ENGINEER.
 14. FOR STANDARD SIDEWALK DETAILS REFER TO DRAWING SD504.



NOTES

1. A MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. DRIVEWAY STRUCTURE SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (CURRENT EDITION) SECTION 00759.
3. ADA COMPLIANT CONCRETE APRON REQUIRED FOR ALL DRIVEWAYS EVEN WHERE NO SIDEWALK IS CONSTRUCTED ADJACENT TO DRIVEWAY UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
4. CURB SHALL BE FORMED & POURED SEPARATE FROM DRIVEWAY; MONOLITHIC POURS NOT ALLOWED.
5. A RIGHT-OF-WAY PERMIT IS REQUIRED ON NEW DRIVEWAYS AND DRIVEWAY MODIFICATIONS. SCHEDULE ONSITE MEETING WITH CITY REPRESENTATIVE AFTER FORMS ARE SET BUT BEFORE POURING CONCRETE; ALLOW ADEQUATE TIME FOR FORM ADJUSTMENT BEFORE SCHEDULED POUR.
6. FOR SIDEWALKS REFER TO STANDARD SIDEWALK DETAIL SD504.
7. FOR CURBS REFER TO STANDARD CURB & GUTTER DETAIL SD501.
8. DROP PANEL DRIVEWAYS MAY BE USED WHEN GROUND AT BACK OF WALK SLOPES DOWN TO A HOUSE OR DRIVEWAY LOWER THAN THE SIDEWALK. SEE DETAIL SD510.
9. FOR COMMERCIAL DRIVEWAYS SEE SD511 FOR REINFORCEMENT REQUIREMENTS.
10. IF EXISTING CURB DOES NOT HAVE A 6" REVEAL; OWNER MAY BUILD TO EXISTING CURB REVEAL BUT WILL REPLACE RAMP SECTION LATER IF CITY REBUILDS THE ADJACENT STREET WITH A 6" CURB REVEAL. REGARDLESS OF CURB REVEAL; DEPTH OF CURB REMAINS THE SAME AS THOUGH THERE WERE A 6" REVEAL. SEE CURB STANDARD DETAILS.



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TYPICAL DRIVEWAY APRON

SCALE:

N.T.S.

REV. DATE:

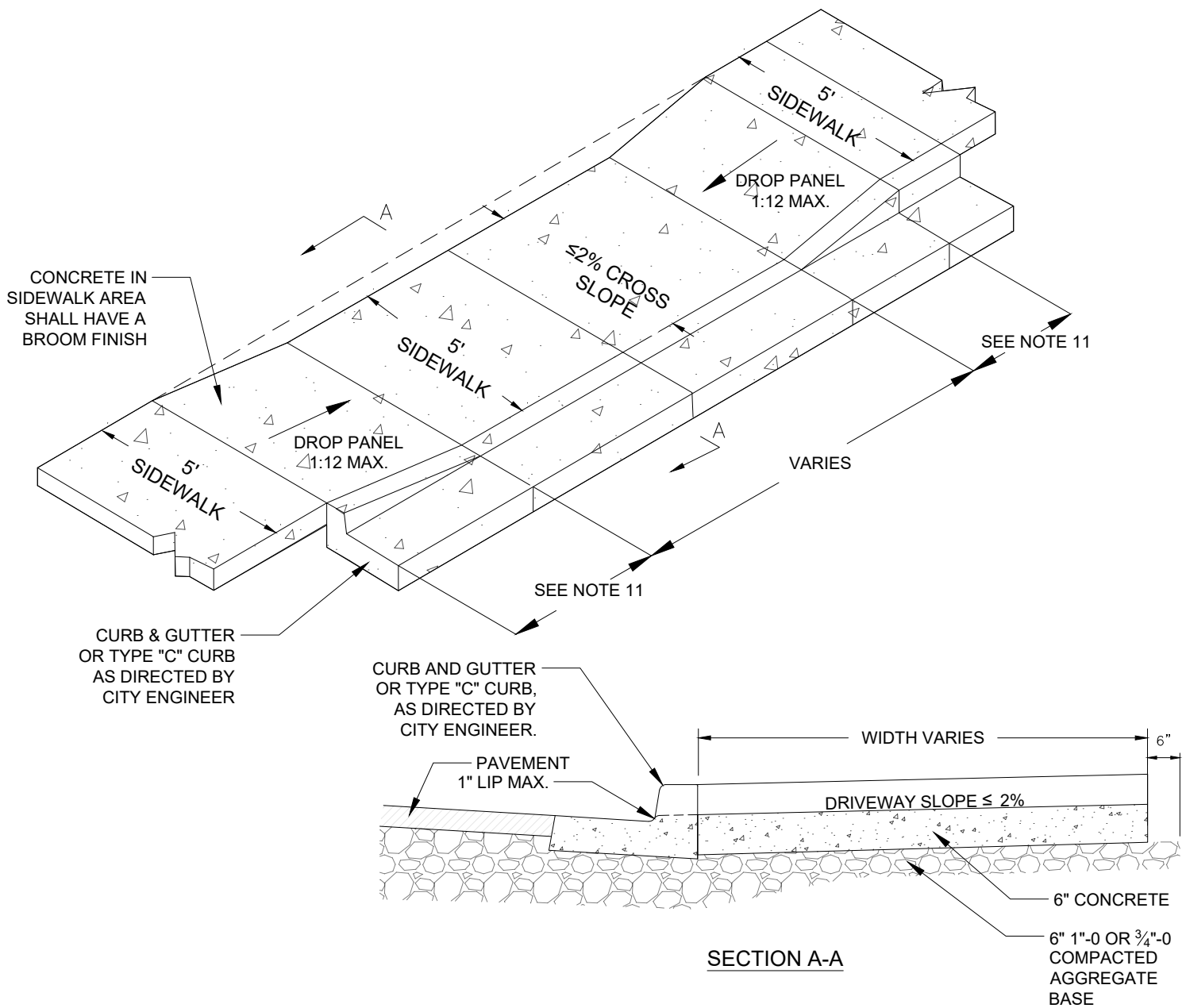
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

509



NOTES

1. A MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. DRIVEWAY STRUCTURE SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (CURRENT EDITION) SECTION 00759.
3. ADA COMPLIANT CONCRETE APRON REQUIRED FOR ALL DRIVEWAYS EVEN WHERE NO SIDEWALK IS CONSTRUCTED ADJACENT TO DRIVEWAY UNLESS APPROVED BY THE CITY ENGINEER.
4. CURB SHALL BE FORMED & POURED SEPARATE FROM DRIVEWAY; MONOLITHIC POURS NOT ALLOWED.
5. A RIGHT-OF-WAY PERMIT IS REQUIRED ON NEW DRIVEWAYS AND DRIVEWAY MODIFICATIONS. SCHEDULE ONSITE MEETING WITH CITY REPRESENTATIVE AFTER FORMS ARE SET BUT BEFORE POURING CONCRETE; ALLOW ADEQUATE TIME FOR FORM ADJUSTMENT BEFORE SCHEDULED POUR.
6. FOR SIDEWALKS REFER TO STANDARD SIDEWALK DETAIL SD504.
7. FOR CURBS REFER TO SD501.
8. DROP PANEL DRIVEWAYS MAY BE USED WHEN GROUND AT BACK OF WALK SLOPES DOWN TO A HOUSE OR DRIVEWAY LOWER THAN THE SIDEWALK.
9. FOR COMMERCIAL DRIVEWAYS SEE SD511 FOR REINFORCEMENT REQUIREMENTS.
10. IF EXISTING CURB DOES NOT HAVE A 6" REVEAL; OWNER MAY BUILD TO EXISTING CURB REVEAL BUT WILL REPLACE RAMP SECTION LATER IF CITY REBUILDS THE ADJACENT STREET WITH A 6" CURB REVEAL. REGARDLESS OF CURB REVEAL; DEPTH OF CURB REMAINS THE SAME AS THOUGH THERE WERE A 6" REVEAL. SEE CURB STANDARD DETAILS.
11. WING WIDTH MAY VARY TO CONFORM WITH ADA REQUIREMENTS AND EXISTING GEOGRAPHY.



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DROP PANEL DRIVEWAY APRON

SCALE:

N.T.S.

REV. DATE:

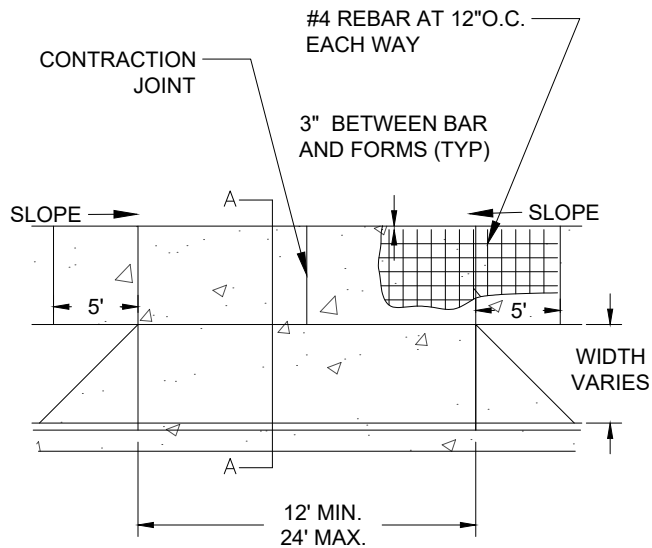
DEC 2023

APPROVED BY:

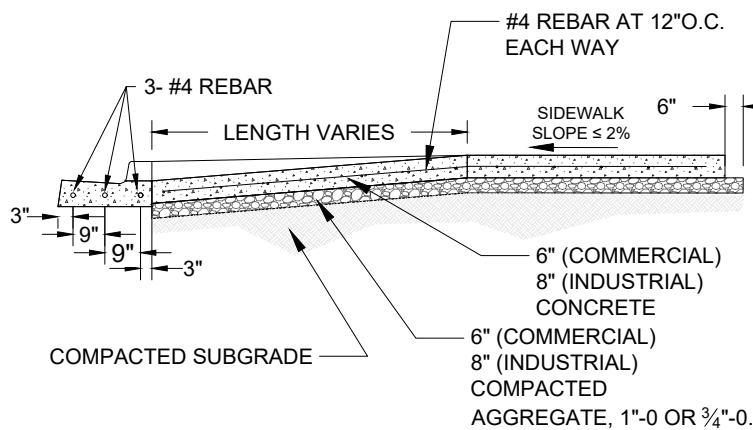
TEG

STANDARD
DRAWING:

510

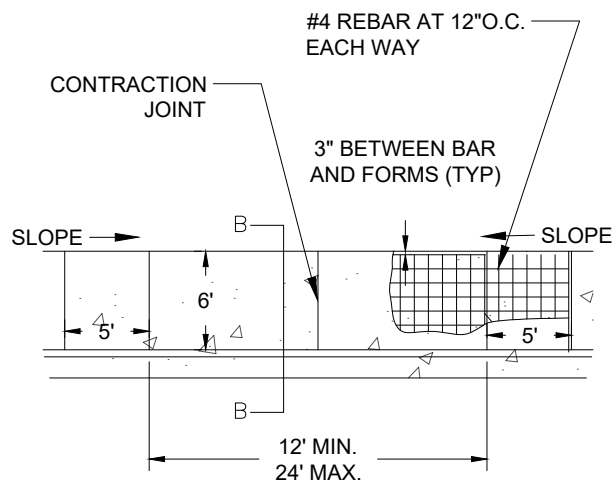


PLAN (TYPE "A")

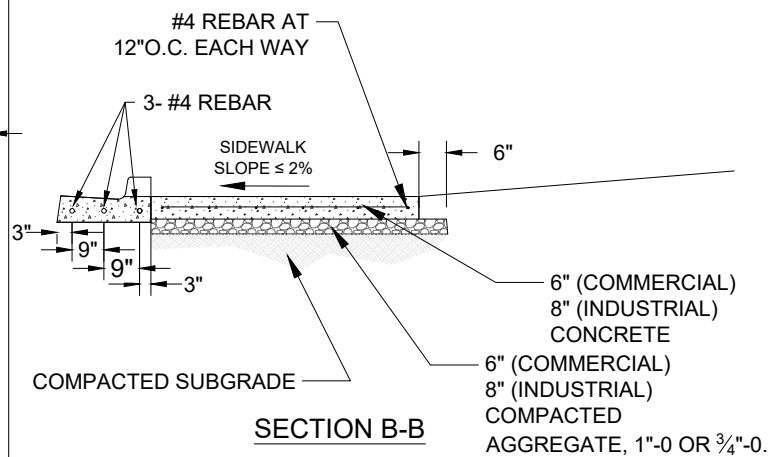


SECTION A-A

DRIVEWAY WITH TYPE "A" SIDEWALK



PLAN (TYPE "B")



SECTION B-B

DRIVEWAY WITH TYPE "B" SIDEWALK

NOTES:

1. JOINTS ARE TO BE TOOLED INTO CONCRETE SURFACE NOT TO EXCEED 8' IN ANY DIRECTION. JOINTS SHALL MATCH EXISTING JOINTS IN ADJACENT PANELS OR CURB.
2. REINFORCING BAR IS TO BE SUPPORT WITH NON-METALIC/ NON-ORGANIC MATERIALS SUCH AS ROCK, CONCRETE PIECES, OR DOBIES PRIOR TO CONCRETE BEING PLACED.
3. REBAR SHALL BE BENT TO MATCH GRADE BREAK SLOPE CHANGE WHERE WALKWAY AND RAMP MEET.
4. SEE DRAWINGS SD509 AND SD 510 FOR DRIVEWAY DETAILS AND SD504 FOR SIDEWALK DETAILS.



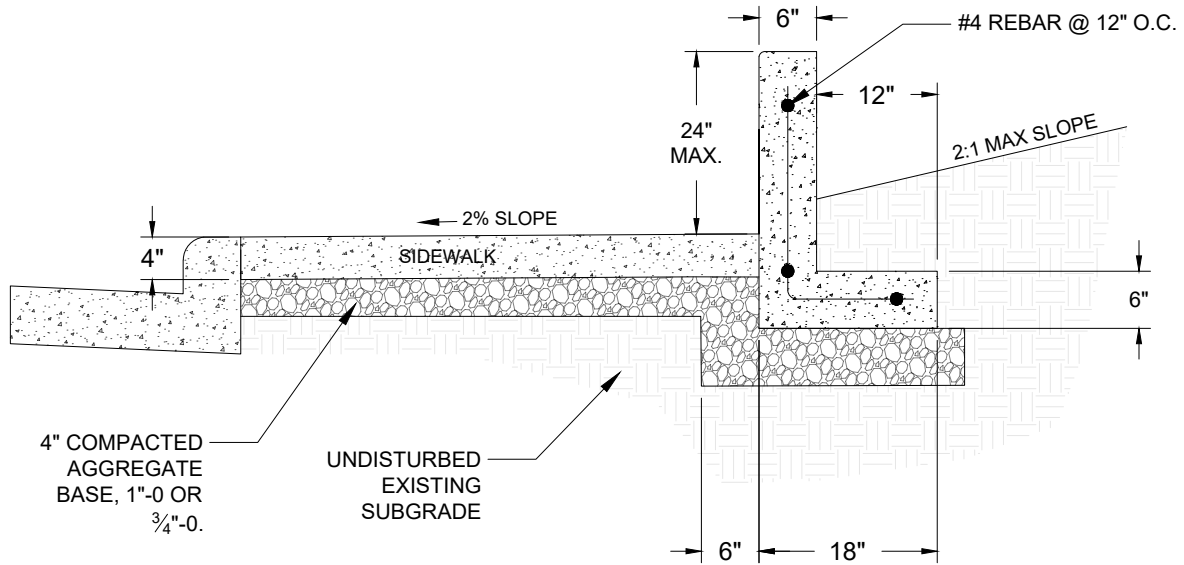
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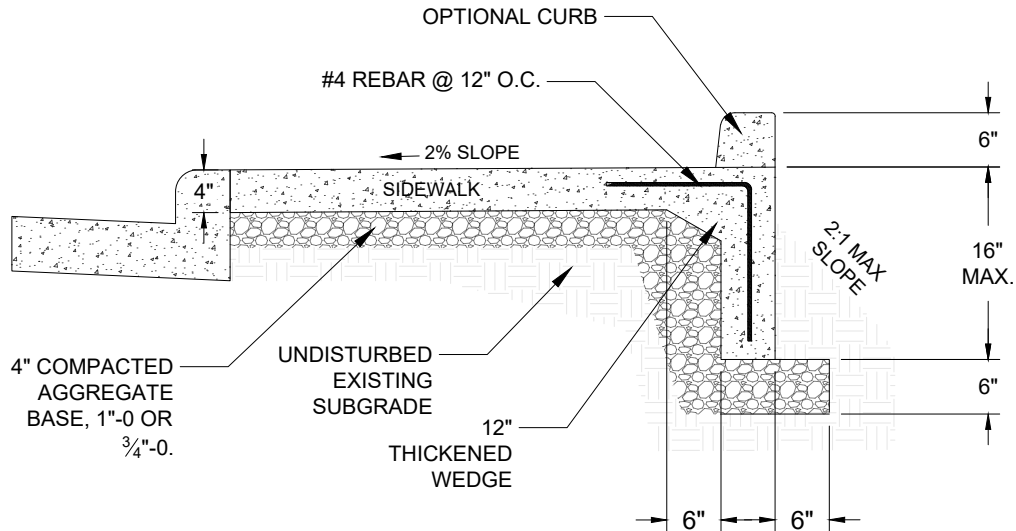
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COMM./IND. DRIVEWAY REINFORCEMENT

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	511



PONY WALL



WEDGE WALL

NOTES

1. A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO SCHEDULING POUR.
2. STRUCTURES SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION, SECTION 00759.
3. REINFORCING BAR IS TO BE HELD UP WITH NON-METALLIC/ NON-ORGANIC MATERIALS SUCH AS ROCK, CONCRETE PIECES OR DOBIES PRIOR TO CONCRETE BEING PLACED.
4. REBAR SHALL HAVE A MINIMUM 2" CONCRETE COVER FROM OUTSIDE CONCRETE EDGE.
5. CONCRETE SHALL HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO CURB LINE.
6. JOINT SPACING SHALL MATCH THOSE REQUIRED FOR SIDEWALK (SD504) AND CURB (SD501) AS APPLICABLE.
7. PONY WALLS TALLER THAN 24 INCHES WILL NEED TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER..



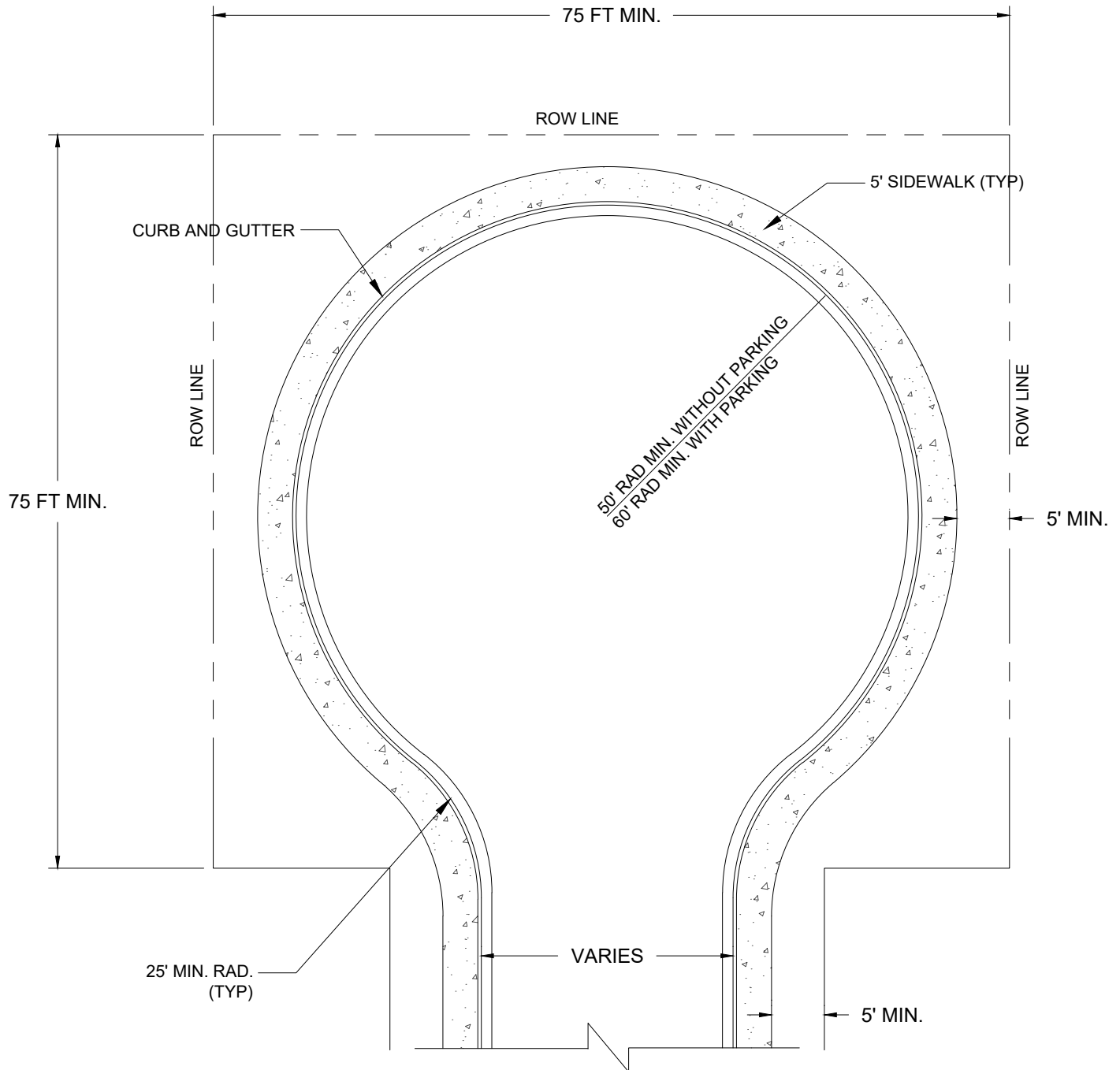
City of Yachats

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PONY AND WEDGE WALLS

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	512



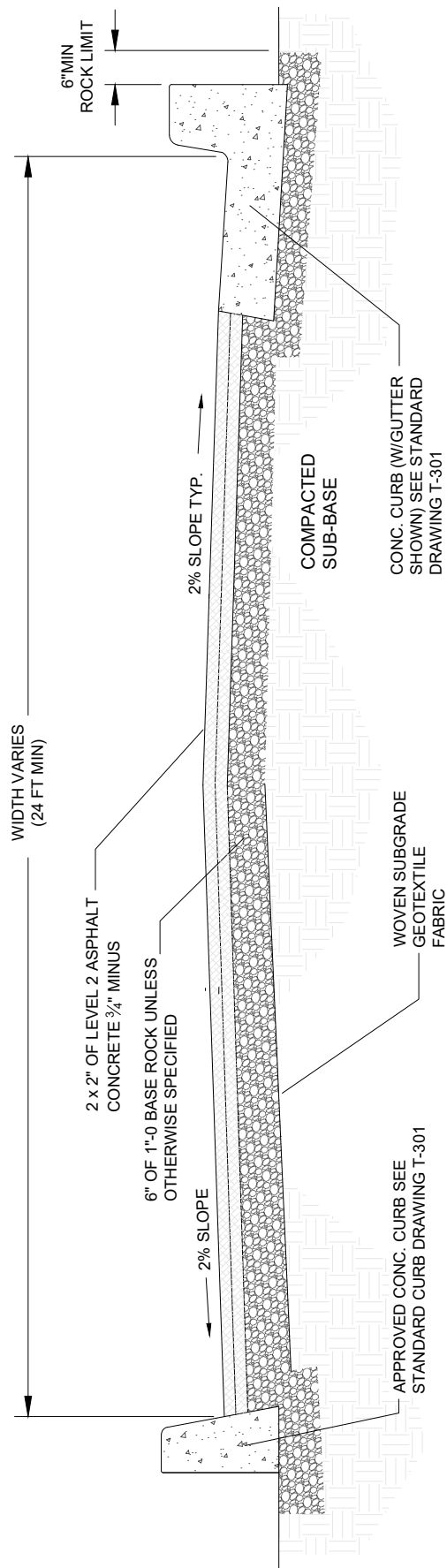
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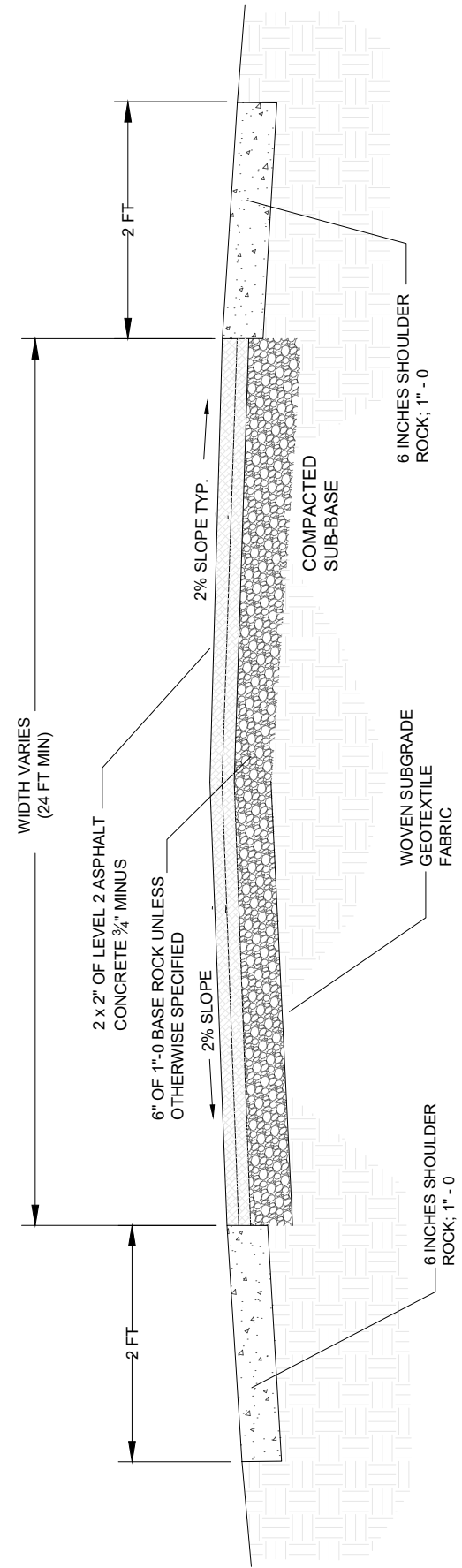
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CUL-DE-SAC STANDARDS

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	513



STANDARD PAVED STREET WITH CURB



STANDARD PAVED STREET WITH GRAVEL SHOULDERS

NOTES:

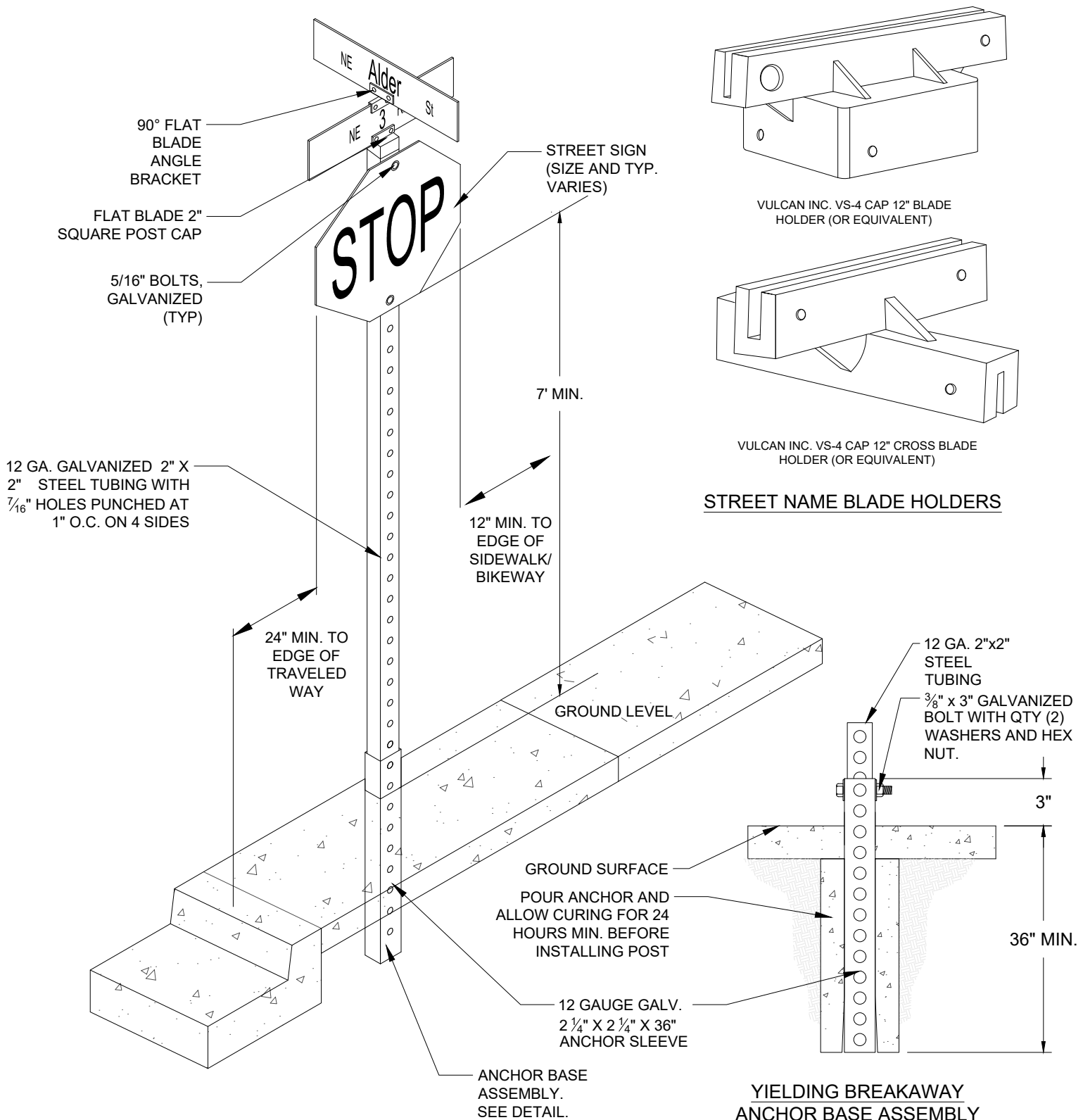
1. ASPHALT CONCRETE PAVEMENT SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), CURRENT EDITION, SECTION 00744
2. SEE ODOT STANDARD DRAWING RD610 FOR SAW CUT SPECIFICATIONS
3. NEW ASPHALT CONCRETE SHALL NOT HAVE GREATER THAN A 1/4" VERTICAL TRANSITION WHEN MEETING EXISTING ASPHALT CONCRETE
4. GEOTEXTILE FABRIC SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), CURRENT EDITION, SECTION 02320
5. EARTHWORK AND SUBGRADE SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), CURRENT EDITION, SECTION 00330
6. AGGREGATE BASE SHALL CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), CURRENT EDITION, SECTION 00641
7. ALL ACP AND JOINTS SHALL BE SANDED AND SEALED WITH TACK.
8. REFER TO DRAWING SD516 FOR STRUCTURAL PAVEMENT DETAILS.



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TYPICAL CITY STREET SECTION

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	514



NOTES:

1. WRAP ANCHOR SLEEVE IN TAPE PRIOR TO POURING TO KEEP CONCRETE FROM ENTERING BOLT HOLES.
2. ALL SIGNAGE SHALL CONFROM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), MOST RECENT EDITION.
3. STREET SIGNS SHALL BE IN ACCORDANCE WITH SECTION 2D.43 OF THE MUTCD. SUBMITTALS SHOWING NAME, LETTER AND BLANK SIZES, AND MATERIALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEER BEFORE INSTALLATION.



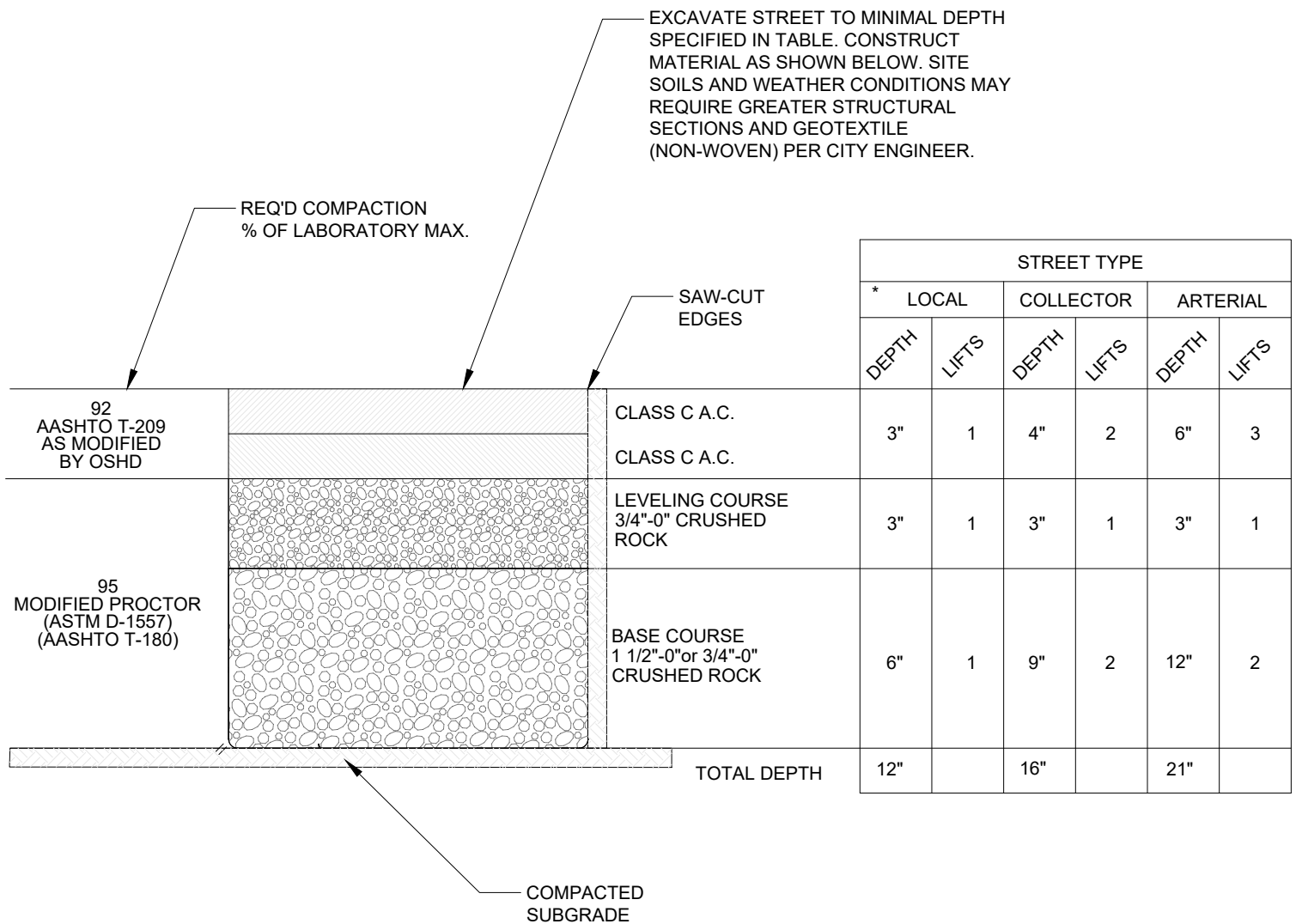
City of Yachats

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LOCAL STREET SIGN INSTALLATION

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	515



GEOTEXTILE SPECIFICATIONS

PROPERTY	TEST	MIN. VALUE
TENSILE STRENGTH, lbs	ASTM D-4632	120
ELONGATION, WET %	ASTM D-4632	40
COEFFICIENT OF WATER PERMEABILITY, cm/sec	ASTM D-4491	0.10
PUNCTURE STRENGTH, lbs	ASTM D-4833	80
MULLEN BURST STRENGTH, psi	ASTM D-3786	250

* LOCAL STREET TYPE = INTERIOR RESIDENTIAL SINGLE FAMILY DETACHED ZONES



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STRUCTURAL STREET SECTIONS

SCALE:

N.T.S.

REV. DATE:

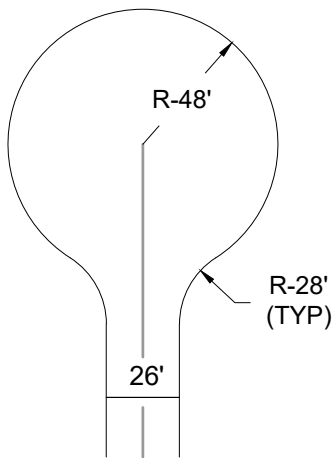
DEC 2023

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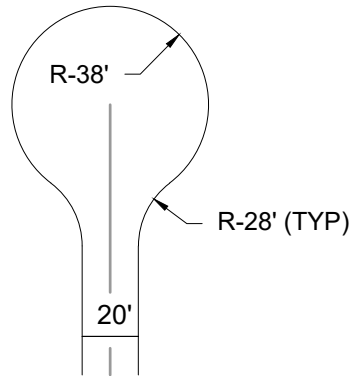
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STANDARD
DRAWING:

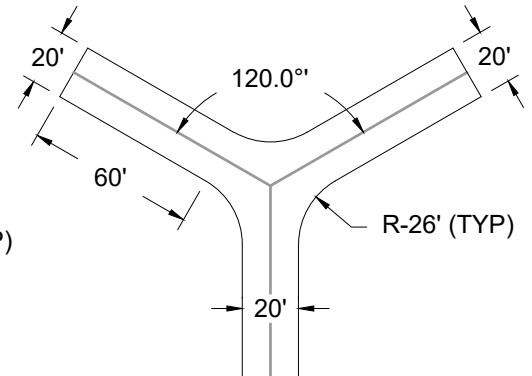
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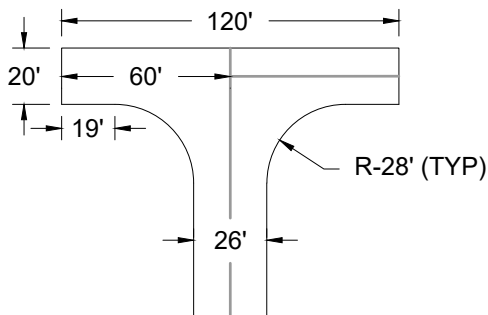
96' DIAMETER
CUL-DE-SAC



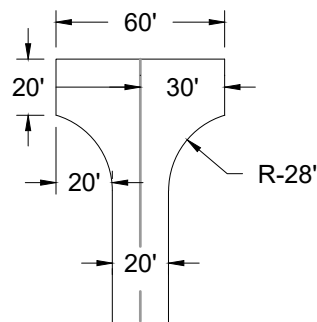
76' DIAMETER
CUL-DE-SAC



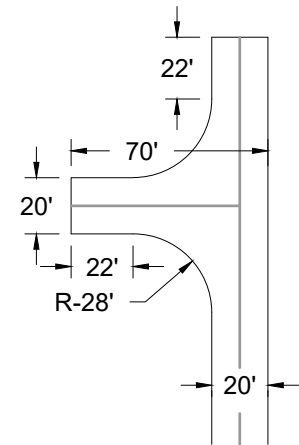
ACCEPTABLE ALTERNATIVE
TO 120' HAMMERHEAD



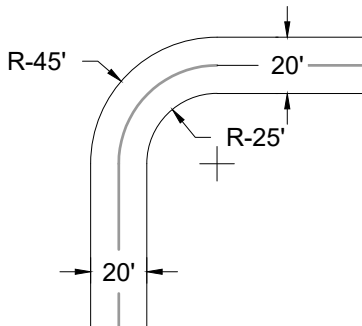
120' HAMMERHEAD



60' HAMMERHEAD



ACCEPTABLE ALTERNATIVE
TO 120' HAMMERHEAD



INSIDE AND OUTSIDE
TURN RADIUS

REQUIREMENTS FOR DEAD END FIRE ACCESS ROADS

LENGTH (FT)	WIDTH (FEET)	TURNAROUNDS REQUIRED
0-150'	20'	NONE REQUIRED
151'-500'	20'	120' HAMMERHEAD, 60' "Y", OR 96' DIAMETER CUL-DE-SAC
501'-750'	26'	120' HAMMERHEAD, 60' "Y", OR 96' DIAMETER CUL-DE-SAC
OVER 750'		SPECIAL APPROVAL REQUIRED

NOTES:

- WHERE A FIRE HYDRANT IS LOCATED ON A FIRE APPARATUS ACCESS ROAD, THE MINIMUM ROAD WIDTH SHALL BE 26 FEET.
- ROAD SURFACES MUST BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT THE LEAST 75,000 POUNDS.
- FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED TEN PERCENT IN GRADE. GRADES STEEPER THAN TEN PERCENT MUST BE APPROVED BY THE FIRE MARSHAL.
- ALL CONSTRUCTION PLANS MUST BE REVIEWED BY THE FIRE MARSHALL.



City of Yachats

501 Hwy 101 N.
P.O. Box 345
Yachats, OR 97498

Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

APPROVED FIRE
DEPARTMENT
TURN-AROUNDS

SCALE:

N.T.S.

REV. DATE:

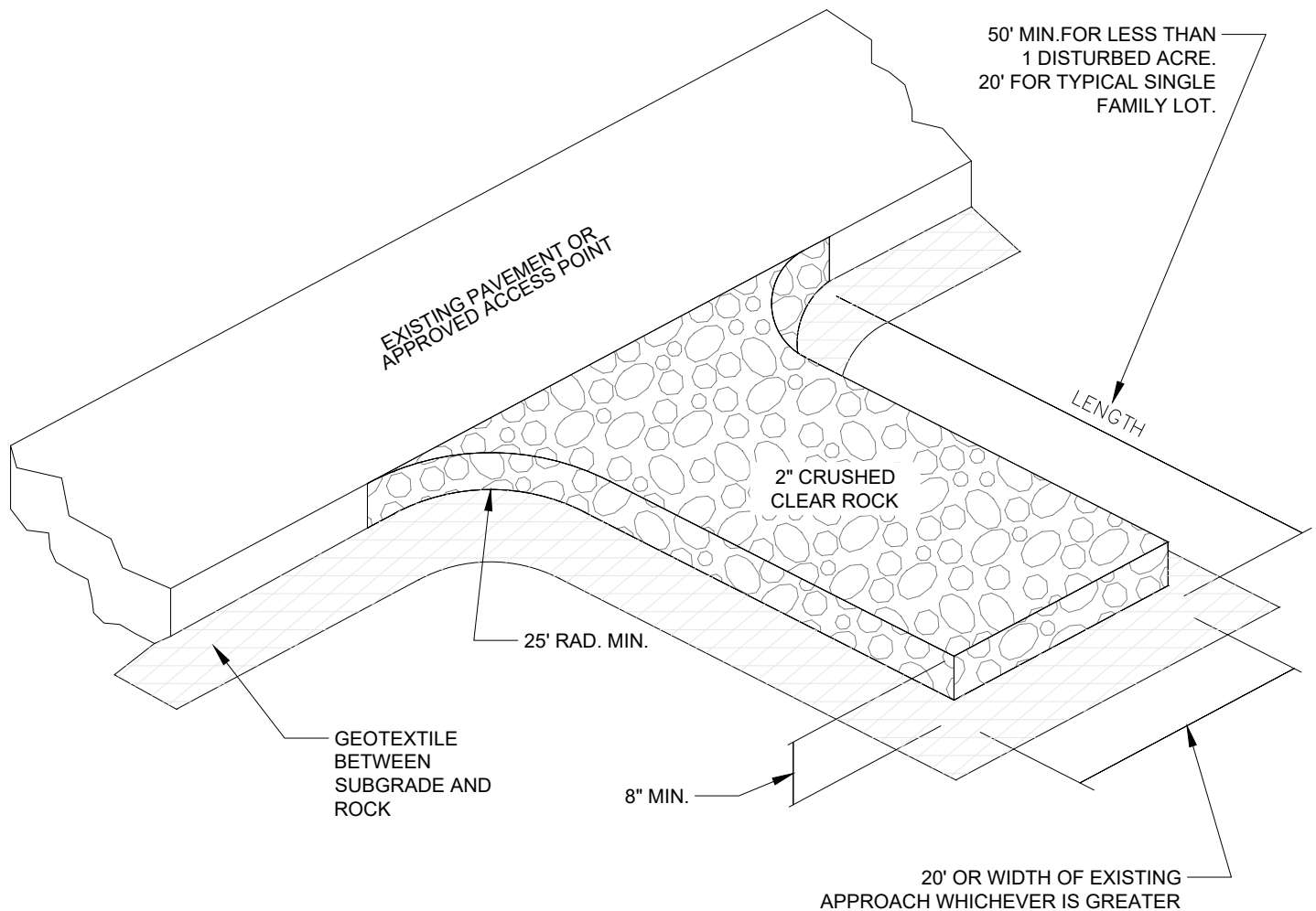
DEC 2023

APPROVED BY:

TEG

STANDARD
DRAWING:

517



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF WAY. THIS WILL LIKELY REQUIRE MAINTENANCE AND/OR OCCASIONAL REPLACEMENT OF AGGREGATE.
2. IF THE AGGREGATE CONSTRUCTION ENTRANCE IS NOT SUFFICIENT TO KEEP SEDIMENT FROM THE PUBLIC R.O.W. THEN ADDITIONAL WHEEL CLEANING MAY BE REQUIRED.
 - 2.1. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
3. WHERE RUNOFF CONTAINING SEDIMENT-LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
4. GEOTEXTILE FABRIC SHALL CONFORM TO OSS SECTION 02320.20 TABLE 4 FOR WOVEN GEOTEXTILE.
5. DIMENSIONS
 - INDIVIDUAL SINGLE FAMILY AND DUPLEX LOTS
20' LONG BY 20' WIDE, 8" DEEP CRUSHED 2" CLEAR ROCK W/GEOTEXTILE FABRIC.
 - ALL OTHERS
50' LONG BY 20' WIDE, 8" DEEP CRUSHED 2" CLEAR ROCK W/GEOTEXTILE FABRIC.



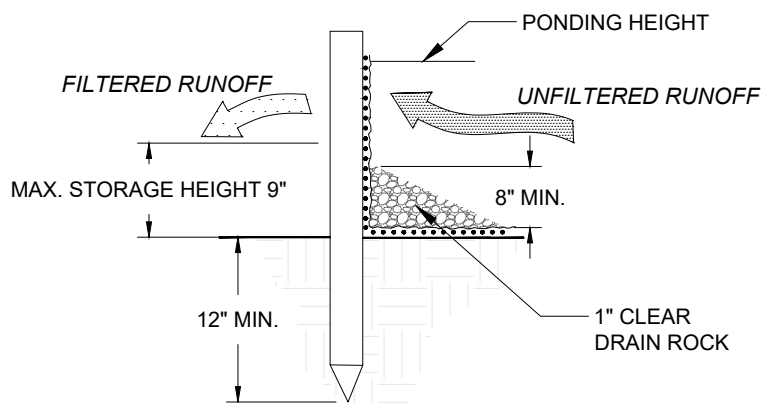
City of Yachats

501 Hwy 101 N.
P.O. Box 345
Yachats, OR 97498

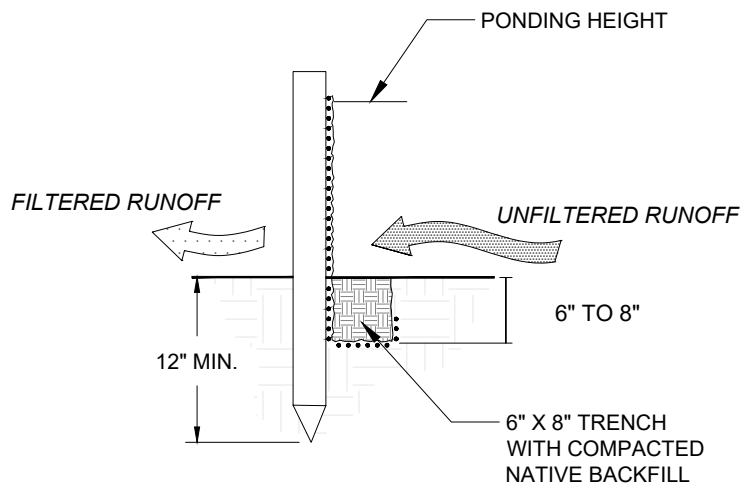
Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

ROCK CONSTRUCTION ENTRANCE

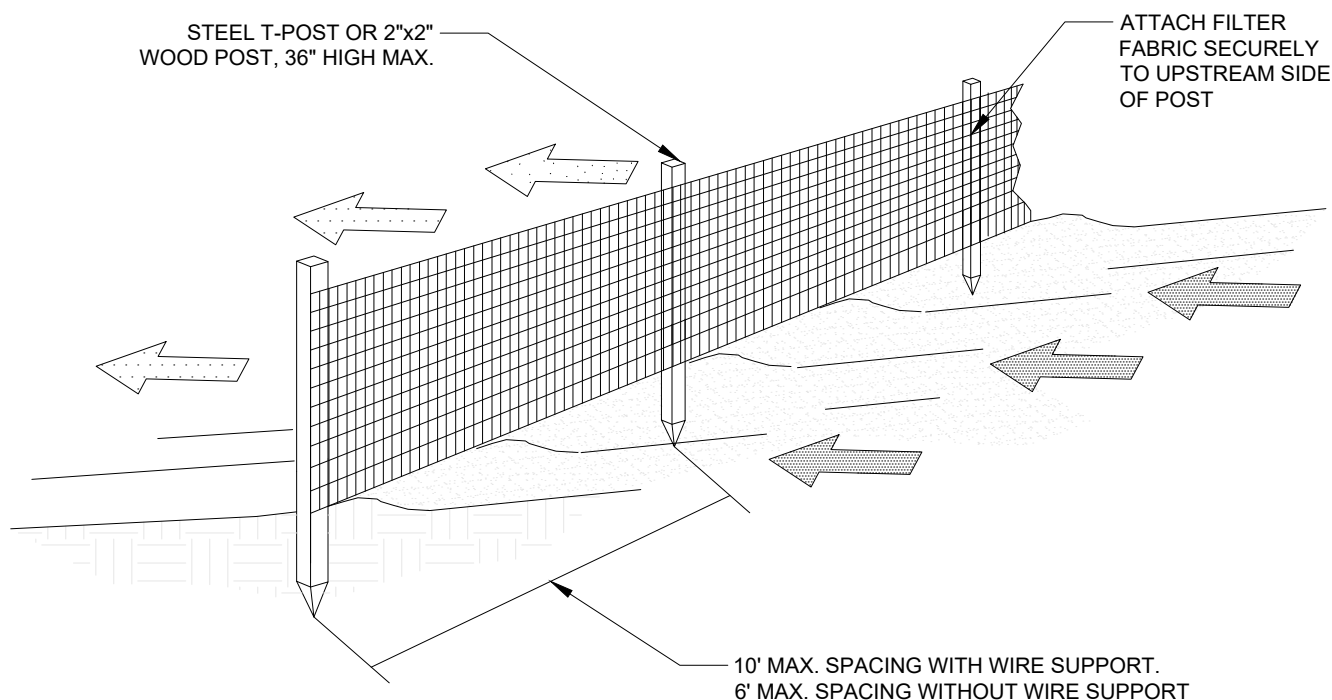
SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	601



**INSTALLATION WITHOUT
TRENCHING**



**INSTALLATION WITH
TRENCHING**



GENERAL NOTES:

1. SEDIMENT FENCE SHALL COMPLY WITH ODOT STANDARD DRAWING RD1040
2. INSPECTION SHALL BE PERFORMED WEEKLY OR AFTER EACH RAINFALL EVENT. REPAIR AND OR REPLACEMENT SHALL BE MADE AS NEEDED BY THE CONTRACTOR, OR AS DIRECTED BY THE INSPECTOR.
3. WHEN SILT REACHES A DEPTH OF 6", IT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE.
4. AFTER THE SITE IS COMPLETELY STABILIZED, THE SEDIMENT FENCE AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL SITE.



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SILT/SEDIMENT FENCE

SCALE:

N.T.S.

REV. DATE:

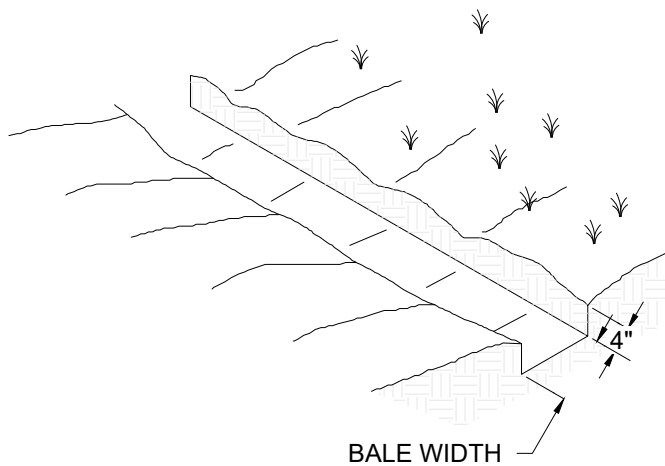
DEC 2023

APPROVED BY:

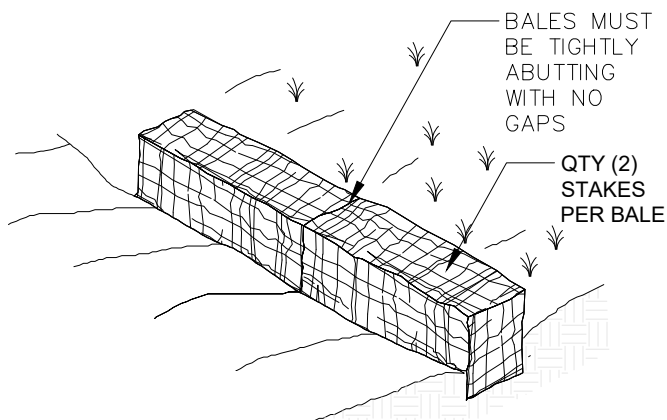
TEG

STANDARD
DRAWING:

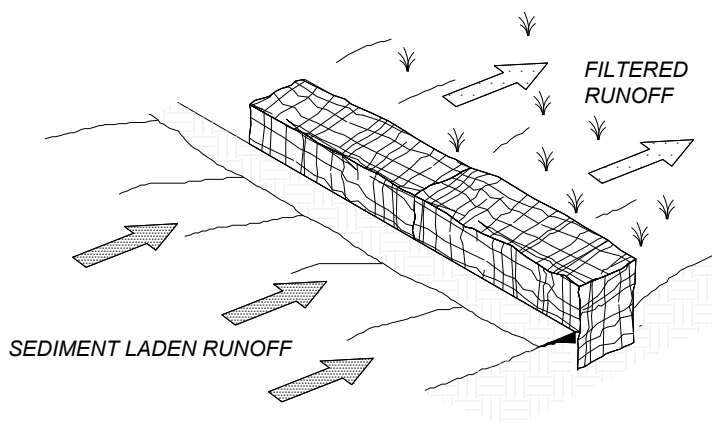
602



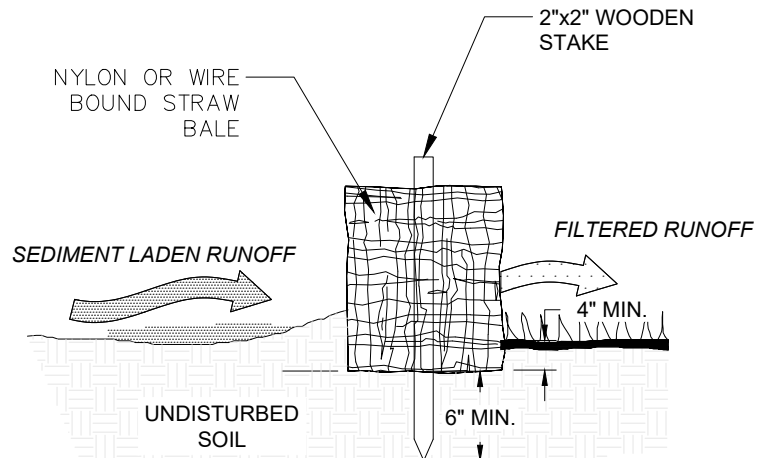
1. EXCAVATE TRENCH



2. PLACE AND STAKE STRAW BALES



3. BACKFILL AND COMPACT THE EXCAVATED SOIL



PROPERLY INSTALLED STRAW BALE

GENERAL NOTES:

1. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY QTY (2) 2"x2" WOODEN STAKES DRIVEN THROUGH THE BALES.
3. INSPECTION SHALL BE PERFORMED WEEKLY OR AFTER EACH RAINFALL EVENT. REPAIR AND OR REPLACEMENT SHALL BE MADE AS NEEDED BY THE CONTRACTOR, OR AS DIRECTED BY THE INSPECTOR.
4. WHEN SILT REACHES A DEPTH OF 6", IT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE.
5. AFTER THE SITE IS COMPLETELY STABILIZED, THE BALE AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL SITE.



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STRAW BALE BARRIER

SCALE:

N.T.S.

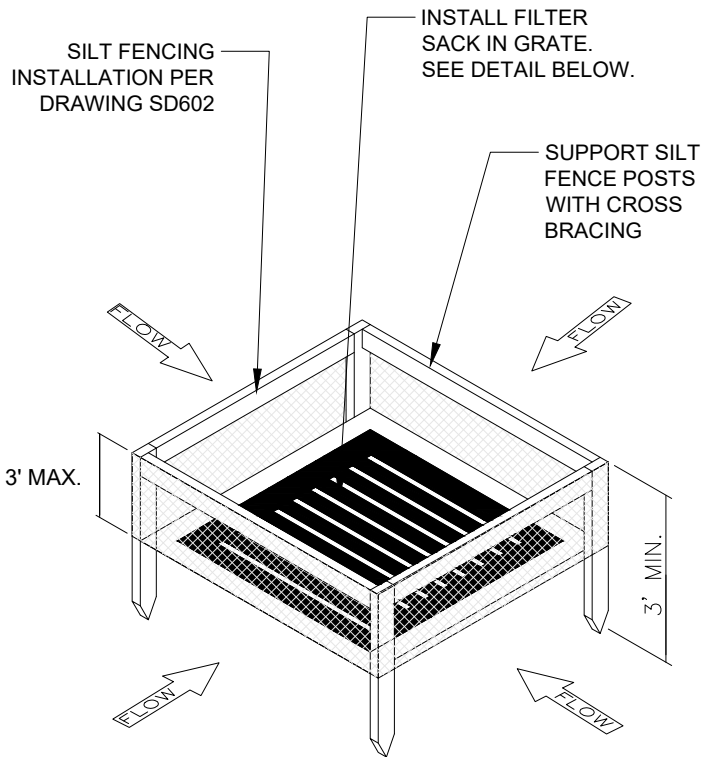
REV. DATE:

APPROVED BY:

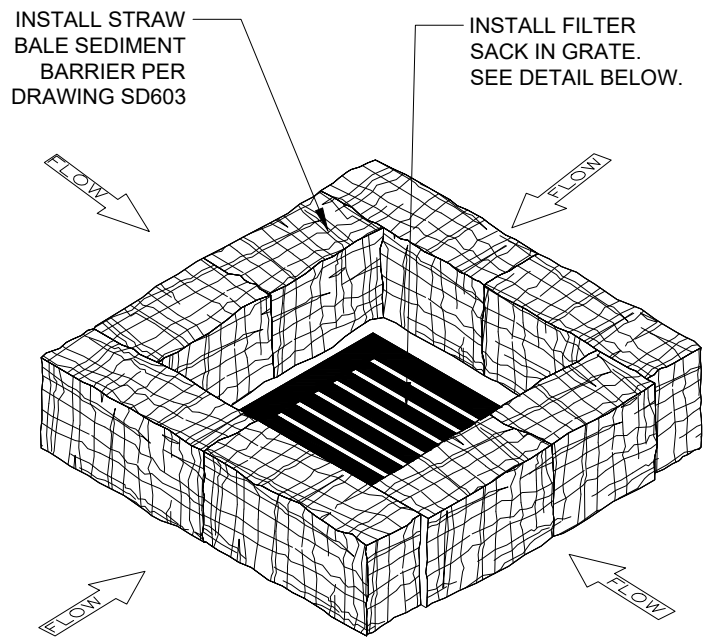
TEG

STANDARD
DRAWING:

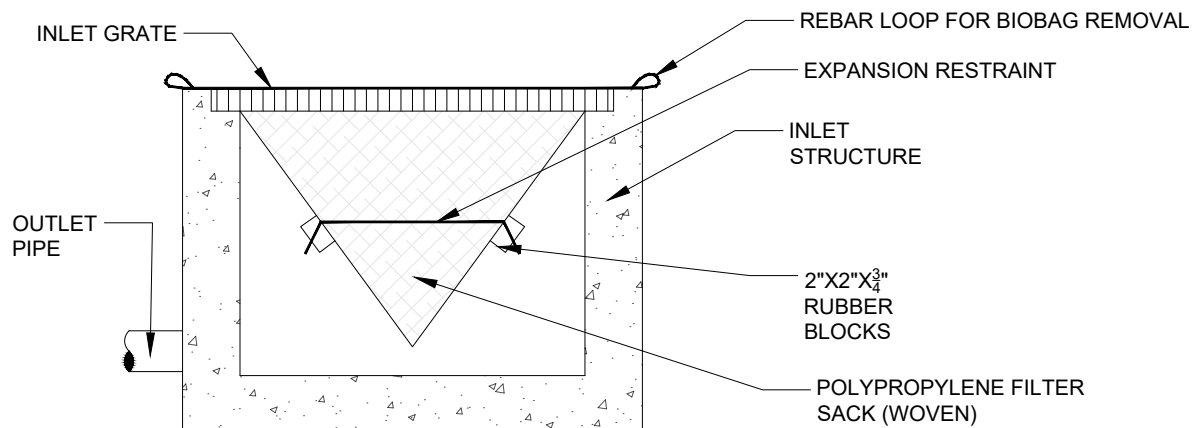
603



SILT/SEDIMENT FENCE INLET PROTECTION



STRAW SEDIMENT BARRIER INLET PROTECTION



WOVEN POLYPROPYLENE FILTER SACK (BIOBAG)

NOTES:

1. THIS METHOD OF INLET PROTECTION IS TO BE USED WHERE THE INLET DRAIN IS LOCATED IN A RELATIVELY FLAT UNPAVED AREA (SLOPE <5%).
2. THIS METHOD OF INLET PROTECTION SHALL NOT BE USED IN STREETS, TRAVELED AREAS, OR AREAS OF CONCENTRATED FLOW (DITCHES).



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FIELD DRAIN INLET PROTECTION

SCALE:

N.T.S.

REV. DATE:

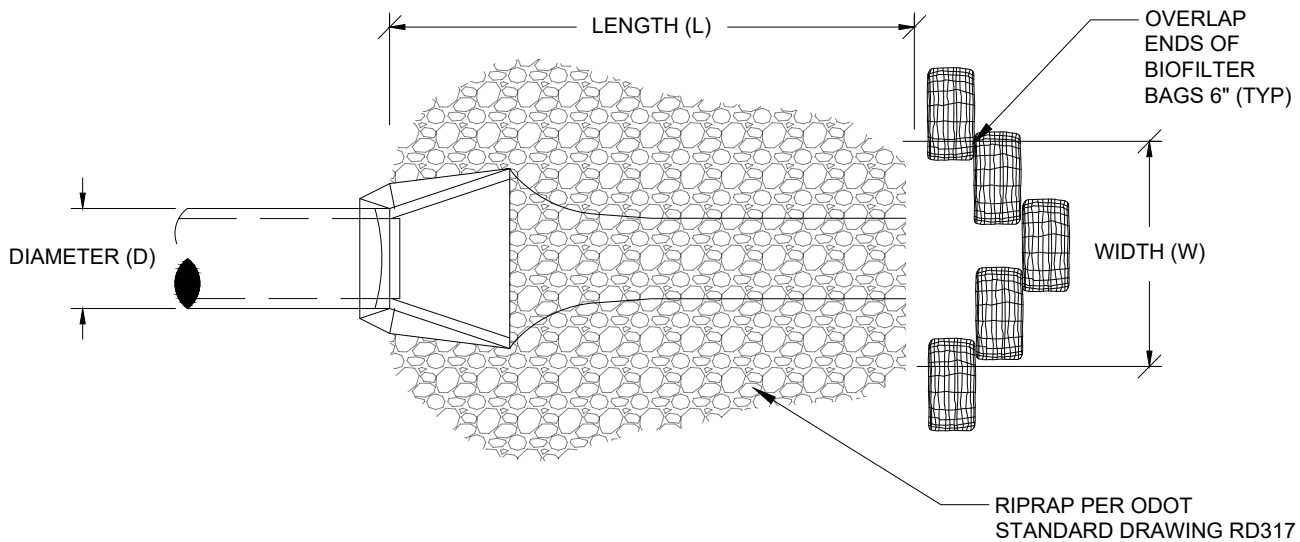
DEC 2023

APPROVED BY:

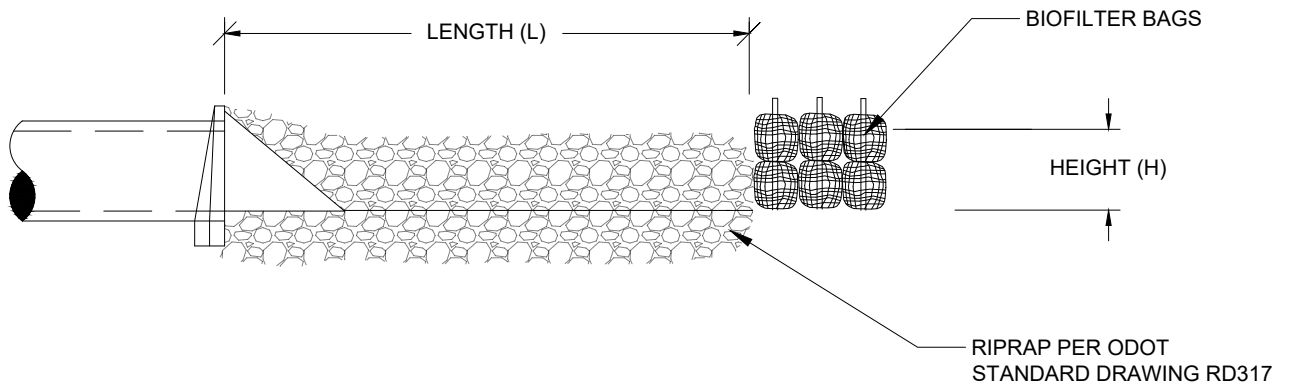
TEG

STANDARD
DRAWING:

604



PLAN VIEW



PROFILE VIEW

NOTES:

1. BIOBAGS SHALL BE STAKED USING QTY (2) 1"x2" WOOD STAKES PER BAG.
2. W = GREATER OF: DIAMETER + 6', OR 3x DIAMETER
3. L = GREATER OF: 12', OR 4x DIAMETER, OR END OF RIPRAP
4. H = PIPE DIAMETER



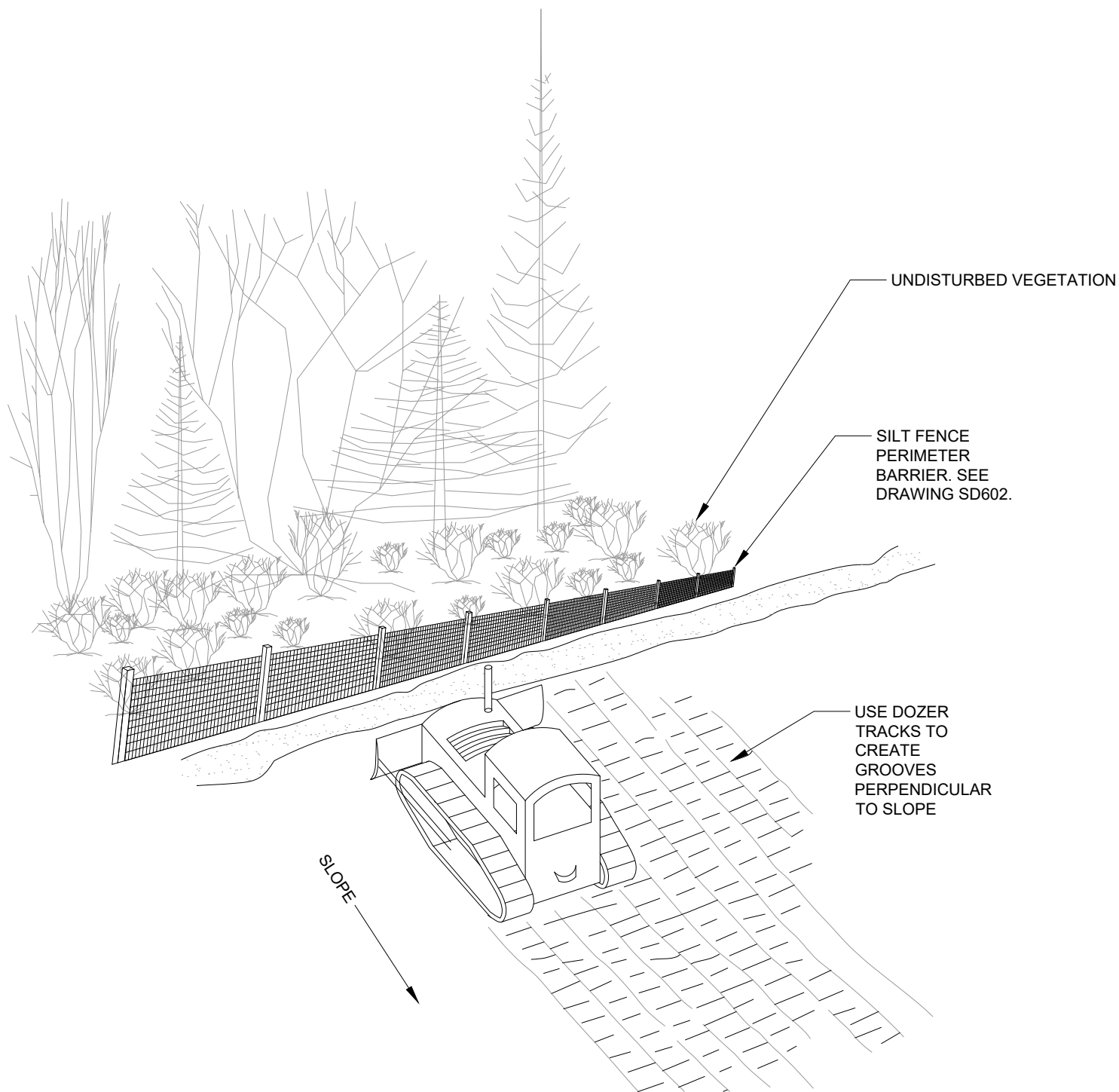
City of Yachats

501 Hwy 101 N.
P.O. Box 345
Yachats, OR 97498

Phone: 541-547-3565
Fax: 541-547-3063
Email: cityhall@yachatsmail.org

OULET PROTECTION

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	605



NOTES:

1. THIS TECHNIQUE IS USED TO PREPARE SLOPES FOR EROSION AND SEDIMENT CONTROL AND SEEDING.
2. STANDARD SLOPE EROSION PROTECTION BMP'S AND SEEDING REQUIREMENTS ALSO APPLY.



City of Yachats

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SURFACE ROUGHENING/ CAT TRACKING

SCALE:	N.T.S.
REV. DATE:	DEC 2023
APPROVED BY:	TEG
STANDARD DRAWING:	606



Date: January 8, 2024

To: Bobbi Price, City Manager
Public Works and Streets Commission

From: Public Works Department

Re: Wastewater quotes and summary.

Listed below are several Capital Improvement Projects for the 2023-24 FY.

1) Sewer Pump Station Electrical Improvements (WW Pump Plug Project).

Three bids were received on the closing date of December 28, 2023.
\$319,000.00, \$424,889.00, and \$402,210.00.

The budget for this project was \$265,000.00.

Options:

- 1) We can ask the Finance Committee to find the funds to proceed at the \$319k cost.
- 2) We send it back for rebid and only install two each year until complete (two years).
- 3) We don't do the project.

We had several issues in 2023 concerning the Main lift station and Riverside lift station with the junction box wires shorting out. For that reason, I recommend option #1. If option 2 is chosen, the cost will certainly increase.

2) The Public Works Roll-Up Doors Project:

This has been a long process to replace 10 roll-up doors for Public Works.

An approximated updated quote for this project came in as follows:

Stainless steel door with steel wind locks \$156,525. Or Like kind aluminum doors with steel wind locks for \$117,200.00. These prices are still being evaluated.

We need to add approximately \$6k-\$9k for prevailing wage.

The budget for this project was \$140,000.00.

Options:

- 1) I was told that we only had the option of steel wind locks with both stainless and aluminum curtains. If that is the case, then I recommend going with the like kind aluminum doors. Public Works can use some of the savings to apply liberal amounts of grease and or replace the wind locks as the start to corrode.
- 2) Fund the cost of the stainless steel doors and replace the wind locks as needed.

The lead time for these doors is 4-6 weeks for aluminum and 6-8 weeks for stainless steel.

3) Portable 200kW Generator for the Wastewater Treatment Plant:

The standby 250kw generator for the Wastewater Treatment Plant had its generator end burn up in December. This required a rental unit that costs \$10k per month until the failed generator is repaired. The lead time for the repair process could take 1-5 months. There were several options for this repair, so a decision was made to purchase a used 200kW portable generator for approximately \$46k. It is scheduled to be installed on January 8th, the rental will be returned on January 9th, this should provide a little savings for the rental cost.

Our plan is to use the large portable generator for the WWTP until we can budget for a repair for the failed generator next FY. We are looking to see if it may be covered by insurance.

When the repair is complete, the generator could be used for Emergency Preparedness or the Water Plant.

This was not a budgeted item. Approximate cost: \$46k

4) Wastewater Treatment Plant Programmable Logic Controller (PLC) failure.

During December 2023, the PLC that controls the information from the flow meters and sends that information to the SCADA system for totalizing and monitoring, had three out of eight components fail.

The plant has two of these PLC systems in place, one for the flow control side and one for the plant operation side. These are approximately 15 years old. My concern is that if parts of one PLC failed, then parts of the other could fail.

The cost for replacement hasn't been received yet but when it comes, I recommend we move forward with it.

5) Public Works Design Standards:

Public Works has received the first draft of the design standards for Yachats. We would like input from the Commission on this draft. The written portion will be sent to us soon.

The budget for the PW Design Standards was \$5k, actual cost will be \$18,368.00.



*City Council Regular Meeting
Meeting Date: January 17, 2024*

ITEM TITLE: Community Services Coordinator Report

DISCUSSION/BACKGROUND/ISSUE:

The project status spreadsheet for the Community Service Coordinator is attached to this cover sheet. The spreadsheet is composed of multiple tabs at the bottom of the page, which are utilized to categorize the work.

FISCAL IMPACT:

I will assign costs to each project listed as I organize my work in this spreadsheet format. Each project has associated costs, and as I continue to report in this manner, the cost details will become more comprehensive.

All projects are from the Commons fund in the City budget or CIP budget.

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability
 - b. Deliver efficient, effective, transparent municipal services
 - c. Provide safe access to and use of city infrastructure, trails, and parks
 - d. Environmentally responsible in all that we do
 - e. Effectively manage and plan for the city's financial needs
 - f. Synchronize and update city policies and administrative rules.
-

PREPARED BY:

Krystal Geisinger, Community Services Coordinator

ITEM'S ATTACHED:

[Project Spreadsheet](#)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



**CITY OF YACHATS
RESOLUTION NO. 2024-225
A RESOLUTION REAPPOINTING MEMBERS TO THE PUBLIC WORKS &
STREETS, PARKS & COMMONS COMMISSIONS AND YACHATS LIBRARY
COMMISSION**

WHEREAS, The following Commission members have agreed to accept reappointments that were offered, and

WHEREAS, The City Council discussed the reappointments at the January 17, 2024 meeting;

NOW THEREFORE, the City of Yachats resolves that the following reappointments are made:

Public Works & Streets Commission:

- o Alex Cox, Seat A - Set to expire 12/2026
- o Kevin Erdahl, Seat D - Set to expire 12/2026
- o Don Growth, Seat G - Set to expire 12/2026

Parks & Commons Commission:

- o Dan Sterling, Seat A - Set to expire 12/2026
- o Ron Simons, Seat C - Set to expire 12/2026
- o George Giroux, Seat D - Set to expire 12/2026

Yachats Library Commission:

- o Street Schellhase, Seat A - Set to expire 12/2026
- o Viki West, Seat D - Set to expire 12/2026
- o Naomi Steenson

Passed and adopted January 17, 2024. This Resolution is effective upon adoption.

Attest:

Craig Berdie, Mayor

Bobbi Price, City Manager

Kimmie Jackson

From: noreply@civicplus.com
Sent: Saturday, December 9, 2023 7:09 AM
To: City Hall; City Recorder
Subject: Online Form Submission #237 for City of Yachats Volunteer Agreement

City of Yachats Volunteer Agreement

City of Yachats

501 Highway 101 N

PO Box 345

Yachats, OR 97498

Phone: 541-547-3565

Fax: 541-547-3063

Thank you for your interest in volunteering for City of Yachats. We look forward to partnerships with volunteers to enable us to effectively serve the citizens of our community. In order to ensure the safety of our volunteers and protect the interests of City of Yachats, we require potential volunteers to complete this questionnaire form and participate in a background check. Thank you for volunteering.

First Name Mary

Last Name Aebi

Address



City Yachats

State OR

Zip Code 97498

Daytime Phone



Evening Phone



Email



(Secure Break)

Volunteer Activity

Please describe the type of volunteer work you are interested in performing or activity/event you wish to volunteer for.

I am interested in serving on the City Planning Committee.

Please list the date(s) or range of dates for which you would like to volunteer

"Any Time"

Statement of Interest or Related Experience for Commissions & Committees

This is an area of interest. I have lived full time in Yachats for 13 years and had been involved in the past with volunteer programs. I have a background in teaching, nursing, and technology and feel it would be a good fit for my skills and background.

Over the past 36 years that I have been acquainted with Yachats, volunteers on the Commissions & Committees have made it a community that is special. The Planning Commission work on providing the structure, applying the state and county rules and regulations, and monitoring the livability of Yachats is an important part of why Yachats is the place we have chosen to live.

Upload document, if needed

Field not completed.

(Section Break)

References

Please list two references that are **not related to you** and that have knowledge of your relevant experience for the type of volunteer activity you are interested in.

Reference 1

First Name

Nan

Last Name

Scott

Address

Field not completed.

City

Yachats

State

OR

Zip Code

97498

Phone Number 

Relationship Friend

Years Known 20

Reference 2

First Name Jo

Last Name Crooks

Address *Field not completed.*

City Yachats

State OR

Zip Code 97498

Phone Number 

Relationship Friend

Years Known 12

Emergency Information

Name and contact information for the person(s) to reach in the event of an emergency.

Name Kenneth G Aebe

Phone Number 

Relationship Husband

Name Mary Arnstad

Phone Number 

Relationship Sister-in-law

I understand and agree to the following:

- I will keep all issues pertaining to city business confidential
- I may be subject to background and motor vehicle record checks.
- I will adhere by Oregon Occupational Safety and Health Division (OR-OSHA) safety standards and training I am provided.
- I have read and understand the Volunteer Policy.

I hereby certify that the facts set forth in this volunteer registration are true to the best of my knowledge. I agree that if the information given in my registration, resume, or any other materials, or during any interview, is found to be false in any way, it shall be considered sufficient cause for denial of volunteer status.

I understand that City of Yachats is not obligated to appoint me to a volunteer position and that nothing contained in the volunteer registration form is intended to create a contract between City of Yachats and me. In addition to the above items, I agree to comply with the policies, rules, regulations, and procedures of City of Yachats, which I understand may change at any time and I understand that my volunteer status can be terminated with or without cause or notice, at any time, at the option of either me or City of Yachats.

Signature	Mary Fisler Aebi
-----------	------------------

Date	12/9/2023
------	-----------

Required for all Minors: Parent or Guardian's Authorization for Medical Care & Consent to Agreement

I PARENT/GUARDIAN as parent or legal guardian, hereby grant permission for MINOR to do volunteer work for City of Yachats. In the event of an emergency, accident, or illness, I authorize City of Yachats and its employees to administer emergency medical care to my child and/or, if deemed necessary, to secure emergency medical services and incur expenses for which I will be responsible for payment. My signature in the following hereby represents that I have read, understand, and to this agreement.

Parent/Guardian	Field not completed.
-----------------	----------------------

Minor	Field not completed.
-------	----------------------

Signature	Field not completed.
-----------	----------------------

Date	Field not completed.
------	----------------------

Version 2022-10-01

Email not displaying correctly? [View it in your browser.](#)

Kimmie Jackson

From: noreply@civicplus.com
Sent: Friday, December 15, 2023 12:21 PM
To: City Hall; Kimmie Jackson
Subject: Online Form Submission #241 for City of Yachats Volunteer Agreement

City of Yachats Volunteer Agreement

City of Yachats

501 Highway 101 N

PO Box 345

Yachats, OR 97498

Phone: 541-547-3565
Fax: 541-547-3063

Thank you for your interest in volunteering for City of Yachats. We look forward to partnerships with volunteers to enable us to effectively serve the citizens of our community. In order to ensure the safety of our volunteers and protect the interests of City of Yachats, we require potential volunteers to complete this questionnaire form and participate in a background check. Thank you for volunteering.

First Name	Jolene
Last Name	Gosselin
Address	
City	yachats
State	Or
Zip Code	97498
Daytime Phone	
Evening Phone	
Email	

(Section Break)

Volunteer Activity

Please describe the type of volunteer work you are interested in performing or activity/event you wish to volunteer for.

Planning Commission

Please list the date(s) or range of dates for which you would like to volunteer

Any time

Statement of Interest or Related Experience for Commissions & Committees

I am a full time resident of Yachats having moved to the city in 2021 from Washington State. I am looking for ways to give back to my new community. I am a Professional Civil Engineer recently retired having spent a great deal of my career in public service. I believe my background in local, state and federal government positions would be of benefit to the Yachats Planning Commission. Let me know if I can provide further input. Cheers, Jolene Gosselin

Upload document, if needed

Field not completed.

(Section Break)

References

*Please list two references that are **not related to you** and that have knowledge of your relevant experience for the type of volunteer activity you are interested in.*

Reference 1

First Name

Mark

Last Name

Sele

Address

Chelan County

City

Wenatchee

State

WA

Zip Code

98850

Phone Number



Relationship

prior boss, current friend

Years Known 20

Reference 2

First Name Sally

Last Name Marie

Address

City yachats

State Or

Zip Code 97498

Phone Number

Relationship neighbor, friend

Years Known 2

Emergency Information

Name and contact information for the person(s) to reach in the event of an emergency.

Name Sylene Gosselin

Phone Number

Relationship daughter

Name Jolene Gosselin-campbell

Phone Number

Relationship son

I understand and agree to the following:

- I will keep all issues pertaining to city business confidential
- I may be subject to background and motor vehicle record checks.
- I will adhere by Oregon Occupational Safety and Health Division (OR-OSHA) safety standards and training I am provided.
- I have read and understand the Volunteer Policy.

I hereby certify that the facts set forth in this volunteer registration are true to the best of my knowledge. I agree that if the information given in my registration, resume, or any other materials, or during any interview, is found to be false in any way, it shall be considered sufficient cause for denial of volunteer status.

I understand that City of Yachats is not obligated to appoint me to a volunteer position and that nothing contained in the volunteer registration form is intended to create a contract between City of Yachats and me. In addition to the above items, I agree to comply with the policies, rules, regulations, and procedures of City of Yachats, which I understand may change at any time and I understand that my volunteer status can be terminated with or without cause or notice, at any time, at the option of either me or City of Yachats.

Signature	Jolene Gosselin
-----------	-----------------

Date	12/15/2023
------	------------

Required for all Minors: Parent or Guardian's Authorization for Medical Care & Consent to Agreement

I PARENT/GUARDIAN as parent or legal guardian, hereby grant permission for MINOR to do volunteer work for City of Yachats. In the event of an emergency, accident, or illness, I authorize City of Yachats and its employees to administer emergency medical care to my child and/or, if deemed necessary, to secure emergency medical services and incur expenses for which I will be responsible for payment. My signature in the following hereby represents that I have read, understand, and to this agreement.

Parent/Guardian	Field not completed.
-----------------	----------------------

Minor	Field not completed.
-------	----------------------

Signature	Field not completed.
-----------	----------------------

Date	Field not completed.
------	----------------------

Version 2022-10-01

Email not displaying correctly? [View it in your browser.](#)

Please describe the type of volunteer work you are interested in performing or

activity/event you wish to
volunteer for.

Please list the date(s) or
range of dates for which you
would like to volunteer

Anytime

Statement of Interest or
Related Experience for
Commissions & Committees

I have 10 years of experience as a member of the planning
commission in my former town (Sudbury, VT) - a town of similar
size. My PC experience includes reviewing proposals,
participating in variance hearings, and editing the town plan
and Unified Development Ordinance (a document describing
specific rules and regulations). I have lived in Yachats since
July 2020.

Upload document, if needed *Field not completed.*

(Section Break)

References

*Please list two references that are **not related to you** and that have knowledge of
your relevant experience for the type of volunteer activity you are interested in.*

Reference 1

First Name	Larry
Last Name	Rowe
Address	
City	Sudbury
State	VT
Zip Code	05733
Phone Number	
Relationship	Chair of Sudbury Planning Commission
Years Known	10

Reference 2

First Name	Paul
Last Name	Cohen
Address	
City	Yachats
State	OR
Zip Code	97498

Phone Number 

Relationship Realtor and friend

Years Known 6

Emergency Information

Name and contact information for the person(s) to reach in the event of an emergency.

Name Barbara Kimmel

Phone Number 

Relationship Wife

Name *Field not completed.*

Phone Number *Field not completed.*

Relationship *Field not completed.*

I understand and agree to the following:

- I will keep all issues pertaining to city business confidential
- I may be subject to background and motor vehicle record checks.
- I will adhere by Oregon Occupational Safety and Health Division (OR-OSHA) safety standards and training I am provided.
- I have read and understand the Volunteer Policy.

I hereby certify that the facts set forth in this volunteer registration are true to the best of my knowledge. I agree that if the information given in my registration, resume, or any other materials, or during any interview, is found to be false in any way, it shall be considered sufficient cause for denial of volunteer status.

I understand that City of Yachats is not obligated to appoint me to a volunteer position and that nothing contained in the volunteer registration form is intended to create a contract between City of Yachats and me. In addition to the above items, I agree to comply with the policies, rules, regulations, and procedures of City of Yachats, which I understand may change at any time and I understand that my volunteer status can be terminated with or without cause or notice, at any time, at the option of either me or City of Yachats.

Signature Peter B. Kimmel

Date 12/7/2023

Required for all Minors: Parent or Guardian's Authorization for Medical Care & Consent to Agreement

I PARENT/GUARDIAN as parent or legal guardian, hereby grant permission for MINOR to do volunteer work for City of Yachats. In the event of an emergency,

accident, or illness, I authorize City of Yachats and its employees to administer emergency medical care to my child and/or, if deemed necessary, to secure emergency medical services and incur expenses for which I will be responsible for payment. My signature in the following hereby represents that I have read, understand, and to this agreement.

Parent/Guardian	Field not completed.
-----------------	----------------------

Minor	Field not completed.
-------	----------------------

Signature	Field not completed.
-----------	----------------------

Date	Field not completed.
------	----------------------

Version 2022-10-01

Email not displaying correctly? [View it in your browser.](#)

Kimmie Jackson

From: noreply@civicplus.com
Sent: Wednesday, December 13, 2023 10:29 AM
To: City Hall; Kimmie Jackson
Subject: Online Form Submission #239 for City of Yachats Volunteer Agreement

City of Yachats Volunteer Agreement

City of Yachats

501 Highway 101 N

PO Box 345

Yachats, OR 97498

Phone: 541-547-3565

Fax: 541-547-3063

Thank you for your interest in volunteering for City of Yachats. We look forward to partnerships with volunteers to enable us to effectively serve the citizens of our community. In order to ensure the safety of our volunteers and protect the interests of City of Yachats, we require potential volunteers to complete this questionnaire form and participate in a background check. Thank you for volunteering.

First Name	bill
Last Name	lewey
Address	
City	yachats
State	OR
Zip Code	97498
Daytime Phone	
Evening Phone	Field not completed.
Email	

Volunteer Activity

Please describe the type of volunteer work you are interested in performing or activity/event you wish to volunteer for.	I would like to volunteer for a single position in any of these areas: Planning, Parks, Emergency Prep
Please list the date(s) or range of dates for which you would like to volunteer	Any time.
Statement of Interest or Related Experience for Commissions & Committees	I am interested in being involved on projects that are visible to the community and visitors. I do not have experience on the "Comms" but I do have project management and herding people experience. I am an engineer, maker and a musician.
Upload document, if needed	<i>Field not completed.</i>

References

*Please list two references that are **not related to you** and that have knowledge of your relevant experience for the type of volunteer activity you are interested in.*

Reference 1

First Name	BonnieJean
Last Name	McVay
Address	<i>Field not completed.</i>
City	<i>Field not completed.</i>
State	<i>Field not completed.</i>
Zip Code	<i>Field not completed.</i>
Phone Number	<i>Field not completed.</i>
Relationship	frkiend
Years Known	3

Reference 2

First Name	Diane
Last Name	Gruver
Address	<i>Field not completed.</i>

Date

12/13/2023

Required for all Minors: Parent or Guardian's Authorization for Medical Care & Consent to Agreement

I PARENT/GUARDIAN as parent or legal guardian, hereby grant permission for MINOR to do volunteer work for City of Yachats. In the event of an emergency, accident, or illness, I authorize City of Yachats and its employees to administer emergency medical care to my child and/or, if deemed necessary, to secure emergency medical services and incur expenses for which I will be responsible for payment. My signature in the following hereby represents that I have read, understand, and to this agreement.

Parent/Guardian *Field not completed.*

Minor *Field not completed.*

Signature *Field not completed.*

Date *Field not completed.*

Version 2022-10-01

Email not displaying correctly? [View it in your browser.](#)

City *Field not completed.*

State *Field not completed.*

Zip Code *Field not completed.*

Phone Number *Field not completed.*

Relationship friend

Years Known 3

Emergency Information

Name and contact information for the person(s) to reach in the event of an emergency.

Name *Field not completed.*

Phone Number *Field not completed.*

Relationship *Field not completed.*

Name Bill Lewey

Phone Number



Relationship *Field not completed.*

I understand and agree to the following:

- I will keep all issues pertaining to city business confidential
- I may be subject to background and motor vehicle record checks.
- I will adhere by Oregon Occupational Safety and Health Division (OR-OSHA) safety standards and training I am provided.
- I have read and understand the Volunteer Policy.

I hereby certify that the facts set forth in this volunteer registration are true to the best of my knowledge. I agree that if the information given in my registration, resume, or any other materials, or during any interview, is found to be false in any way, it shall be considered sufficient cause for denial of volunteer status.

I understand that City of Yachats is not obligated to appoint me to a volunteer position and that nothing contained in the volunteer registration form is intended to create a contract between City of Yachats and me. In addition to the above items, I agree to comply with the policies, rules, regulations, and procedures of City of Yachats, which I understand may change at any time and I understand that my volunteer status can be terminated with or without cause or notice, at any time, at the option of either me or City of Yachats.

Signature Bill Lewey



CITY OF YACHATS Volunteer Agreement and Signature

City of Yachats, PO Box 345, (441 Hwy 101N), Yachats OR 97498
541-547-3565 office 541-547-3063 fax www.yachatsoregon.org

Thank you for your interest in volunteering for CITY OF YACHATS. We look forward to partnerships with volunteers to enable us to effectively serve the citizens of our community. In order to ensure the safety of our volunteers and protect the interests of CITY OF YACHATS, we require potential volunteers to complete this questionnaire form and participate in a background check. Thank you for volunteering.

Name	Russell Styles	Daytime Phone	[REDACTED]
Address	311 E. 2nd ST	Evening Phone	[REDACTED]
City/Zip	Yachats, 97498	Email	[REDACTED]

VOLUNTEER ACTIVITY

Please describe the type of volunteer work you are interested in performing, or activity/event you wish to volunteer for.

Planning Commission

Please list the date(s) or range of dates for which you would like to volunteer ("Any time" can be a stated date range).

Any Time

REFERENCES

Please list two references that are NOT related to you and that have knowledge of your relevant experience for the type of volunteer activity you are interested in.

Name	Address	Phone Number	Relationship/Years Known
Kathy McCulloch	[REDACTED]	[REDACTED]	Friend of 5+ years

EMERGENCY INFORMATION

Name and contact information for the person(s) to reach in the event of an emergency.

Name	Phone Number	Relationship
Barbara Cochran	[REDACTED]	Spouse
Kathy & Frank McCulloch	[REDACTED]	Owners of MidTown Guitar Shop

(Please be sure to fill out the page on the back)



Volunteer Agreement and Signature – Page 2

I understand and agree to the following:

- I will keep all issues pertaining to city business confidential.
- I may be subject to background and motor vehicle record checks.
- I will adhere by OR-OSHA safety standards and training I am provided.
- I have read and understand the Volunteer Policy.

I hereby certify that the facts set forth in this volunteer registration are true to the best of my knowledge. I agree that if the information given in my registration, resume, or any other materials, or during any interview, is found to be false in any way, it shall be considered sufficient cause for denial of volunteer status. I understand that CITY OF YACHATS is not obligated to appoint me to a volunteer position and that nothing contained in the volunteer registration form is intended to create a contract between CITY OF YACHATS and me. In addition to the above items, I agree to comply with the policies, rules, regulations, and procedures of CITY OF YACHATS, which I understand may change at any time and I understand that my volunteer status can be terminated with or without cause or notice, at any time, at the option of either me or CITY OF YACHATS.

Signature: _____

Date: Dec 19, '23

STATEMENT OF INTEREST OR RELATED EXPERIENCE

(Please provide a short narrative about why you chose to apply for this particular committee or commission).

over 30 years experience with municipal, and
industrial utilities

REQUIRED FOR ALL MINORS:

PARENT OR GUARDIAN'S AUTHORIZATION FOR MEDICAL CARE AND CONSENT TO AGREEMENT

I, _____ as parent or legal guardian, hereby grant permission for _____ to do volunteer work for CITY OF YACHATS. In the event of an emergency, accident, or illness, I authorize CITY OF YACHATS and its employees to administer emergency medical care to my child and/or, if deemed necessary, to secure emergency medical services and incur expenses for which I will be responsible for payment. My signature below hereby represents that I have read, understand, and consent to this agreement.

Signature: _____

Date: _____

7/1/2017

1. What do you see as the vision for Yachats and the role of the Planning Commission?
2. Why are you interested in volunteering for the Planning Commission, and what skills/knowledge will you bring?
3. Could you tell us about an experience collaborating with a group, particularly where opinions conflicted, or the decision was controversial? How would you describe your tolerance for views you might disagree with?
4. What have you done to prepare for the interview? Have you looked at any city documents (comprehensive plan, charter, planning commission meeting minutes, attended meetings, state statutes for land use planning, etc.)?
5. How would you handle a situation where community members strongly disagree with a proposed policy, code change, etc.?



**CITY OF YACHATS
RESOLUTION NO. 2024-226
A RESOLUTION APPOINTING MEMBERS TO THE
PLANNING COMMISSION**

WHEREAS, The Planning Commission received three resignations. Upon reviewing the commission rules, City Council will conduct the interviews and vote to appoint three members, and

WHEREAS, The City Council interviewed and discussed the appointments at the January 17, 2024 meeting;

NOW THEREFORE, the City of Yachats resolves that the following appointments be made:

Planning Commission:

- o _____ Seat C - Set to expire 12/2026
- o _____, Seat D - Set to expire 12/2026
- o _____, Seat E - Set to expire 12/2025

Passed and adopted January 17, 2024. This Resolution is effective upon adoption.

Attest:

Craig Berdie, Mayor

Bobbi Price, City Manager

From: Beach Street Kitchen <info@beachstreetkitchen.com>
Sent: Wednesday, January 17, 2024 1:28 AM
To: Kimmie Jackson
Subject: Re: Beach Street Kitchen very behind on taxes

Hi Kimmie,
Lorraine called me today asking to provide you with our plan to bring Beach Street Kitchen's taxes up to date. Sorry for sending this so late in the day, on Tuesday's I watch our 2 year old while my wife's at work, and then after his bedtime I was able to work on this.
Thank you,
Brian Hoberg

Beach Street Kitchen Tax Repayment Plan

How/Why this happened:

A little over 2 years ago, my business partners and I agreed that they would take a step back and I would gradually absorb their duties. This enabled them to work other jobs while keeping their investments in the business. When they stopped working at the business we needed to hire more employees which took additional funding. As I tried to increase revenue to pay for the employees I was also taking over the business' accounting but didn't understand how to set aside money for our Food/Bev taxes. (We had also changed our email address so I missed several tax notices.) Our Food/Beverage taxes are supposed to be included in our menu pricing and then separated manually later. Unfortunately I didn't realize this until much later and already our sales were barely high enough to cover the new labor costs. (Also I cut my own wages to barely more than tips.) In Dec 2022, I realized we were behind in taxes so we planned to increase revenue by finishing our remodel so we could open on the inside. This change meant more staff was needed in the summer to meet the demand and then we had the misfortunes of rising food costs from inflation and multi-week closures from staff catching covid and other illnesses. I estimate we lost about \$18,000 in sales when we had to be closed for 3+ weeks of operation. This easily could have helped us repay our late taxes. Now in 2024, we are actively taking steps to get back on the right track.

We plan to get back on track by:

- 1) Increasing Revenue to afford present/future taxes
- 2) Working with the city to form a payment plan for the past taxes
- 3) Asking the city to waive late fees

1) Increase Revenue to afford present/future taxes by:

- Raising Prices
 - we are raising prices to properly match the increased food and labor costs
- Increasing Open Hours
 - we are in the process of adding a day to our work week which could add 15-20% in sales
- Increasing Non-taxed Item Sales
 - adding non-taxed item sales like merchandise or alcohol which will allow us to increase revenue without increasing our tax payment

2) Work with the city to form a payment plan

-After already being behind in savings from this last year (losing \$18,000), we also now just lost a busy weekend's sales from power outages. So now our savings have depleted and we need a payment plan to repay late taxes. I am requesting 3 months for us to increase revenue to cover taxes

for the current 1st quarter, and then we can start a payment plan for the late taxes in April. Starting April 15th, we could pay \$300 each month (or more if able) until the total of \$13,562.20 has been paid.

3) We are asking the city to waive our late tax fees so that we might get back on our feet sooner - I apologize that we have gotten so far behind on taxes. We want to do what is right and pay our share of late taxes as quickly as possible.

Thank you for your time,
Brian Hoberg

Beach Street Kitchen - Restaurant & Cafe
84 Beach St. – Yachats, Oregon
(541) 547-4409 or (541) 547-8247
Website: www.beachstreetkitchen.com
Email: info@beachstreetkitchen.com
Instagram : @bskoregon
Facebook: facebook.com/beachstreetkitchen

On Tue, Jan 9, 2024 at 8:17 AM Kimmie Jackson <recorder@yachatsmail.org> wrote:

Thank you for contacting us. I will let the City Manager and Council know you are making an appeal and add you to the January 17th City Council Meeting and you should plan on attending in person.

Please make sure to provide any documents related to this matter regarding F & B Taxes.

Thank you

Kimmie Jackson
Deputy City Recorder / Utilities / Notary
City of Yachats
Phone: 541-547-3565 ext. 101
Fax : 541-547-3063
Email: kimmie@yachatsmail.org
501 Highway 101 N
PO Box 345 Yachats, OR 97498
www.yachatsoregon.org

From: Beach Street Kitchen <info@beachstreetkitchen.com>

Sent: Friday, January 5, 2024 2:30 AM

To: Kimmie Jackson <recorder@YachatsMail.org>

Subject: Beach Street Kitchen very behind on taxes

Hi Kimmie,

I hope you are well. I am sorry to say that Beach Street Kitchen is 2 years behind in paying the city food/beverage tax. A few unfortunate circumstances led to this moment: Our menu prices are supposed to include the food/beverage tax, and 2 years ago I started taking on more duties from the other owners, but failed to put the tax dollars into a separate account. Then at the end of each month after paying employees, bills, and pandemic loan payments, there was not any money left for the taxes (or for me, I've been barely paying myself to try to catch up too). Each month I've been trying to get more income to catch up on taxes sooner but sadly that hasn't happened quickly enough. (We've also lost multiple weeks of revenue from staff shortages because of illness.) Finally this last week I have started setting the proper amount aside for taxes and I will also be raising prices to make sure the other bills get paid too. We're also trying to be open an extra day and sell more alcohol (which is not taxed) so then we could use that money to help catch up.

Lorraine said to contact you right away to see about getting on the agenda for the next City Council meeting so I can try to talk to them and plan how to fix this. She also said I should enter what we owe for the taxes so I got the 2022 sales entered and I'm working on gathering the 2023 sales which I will enter as quickly as I can.

Thanks very much for the help,

Brian Hoberg

Co-owner

Beach Street Kitchen - Restaurant & Cafe

84 Beach St. – Yachats, Oregon

(541) 547-4409 or (541) 547-8247

Website: www.beachstreetkitchen.com

Email: info@beachstreetkitchen.com

Instagram : @bskoregon

Facebook: facebook.com/beachstreetkitchen

Kimmie Jackson

From: Kimmie Jackson
Sent: Tuesday, January 9, 2024 8:17 AM
To: Beach Street Kitchen
Cc: Bobbi Price; Lorraine Barrett; Mayor
Subject: RE: Beach Street Kitchen very behind on taxes

Thank you for contacting us. I will let the City Manager and Council know you are making an appeal and add you to the January 17th City Council Meeting and you should plan on attending in person.

Please make sure to provide any documents related to this matter regarding F & B Taxes.

Thank you



Kimmie Jackson

Deputy City Recorder / Utilities / Notary
City of Yachats

Phone: 541-547-3565 ext. 101

Fax : 541-547-3063

Email: kimmie@yachatsmail.org

501 Highway 101 N

PO Box 345 Yachats, OR 97498

www.yachatsoregon.org

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Co-owner

Beach Street Kitchen - Restaurant & Cafe

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Facebook: facebook.com/beachstreetkitchen



City of Yachats

INVOICE

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 010732-2022

Invoice Date: 2/22/2022

Beach Street Kitchen

Due Date: 1/1/2022

PO Box 983
Yachats, OR, 97498

Balance Due: \$1,459.96

E-Delivery Address: bjoberg@gmail.com

Description	Amount Due
Food and Beverage Tax for October 2021 (Receipts \$696.29; Rate 5%; Admin Credit \$1.74)	\$33.07
Food and Beverage Tax for November 2021 (Receipts \$284.06; Rate 5%; Admin Credit \$0.71)	\$13.49
Food and Beverage Tax for December 2021 (Receipts \$226.32; Rate 5%; Admin Credit \$0.57)	\$10.75
Non-Payment Penalty	\$5.73
Non-Payment Administrative Fee	\$100.00
Non-Payment Penalty	\$16.30
Non-Payment Penalty	\$17.94
Non-Payment Penalty	\$19.73
Non-Payment Penalty	\$21.70
Non-Payment Penalty	\$23.87
Non-Payment Penalty	\$26.26
Non-Payment Penalty	\$28.88
Non-Payment Penalty	\$31.77
Non-Payment Penalty	\$34.95
Non-Payment Penalty	\$38.44
Non-Payment Penalty	\$42.29
Non-Payment Penalty	\$46.52
Non-Payment Penalty	\$51.17
Non-Payment Penalty	\$56.29
Non-Payment Penalty	\$61.92
Non-Payment Penalty	\$68.11
Non-Payment Penalty	\$74.92
Non-Payment Penalty	\$82.41
Non-Payment Penalty	\$90.65
Non-Payment Penalty	\$99.72
Non-Payment Penalty	\$109.69

Non-Payment Penalty	\$120.66
Non-Payment Penalty	\$132.72
Subtotal:	\$1,459.96

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.



City of Yachats

City License Renewal

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 012184-2023

Invoice Date: 11/13/2023

Beach Street Kitchen

Due Date: 12/31/2023

PO Box 983
Yachats, OR, 97498

Balance Due: \$40.00

E-Delivery Address: bjhoberg@gmail.com

Description	Amount Due
Annual Restaurant Fee for 2024 (14 Person Capacity)	\$40.00
Subtotal:	\$40.00

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.

IMPORTANT INFORMATION: Please review your "Details" and "Author Admin" pages on GoYachats and update areas that have changed using the links below. You must be logged in to make changes. If you do not know your login information, click on the "Login Help" link on the Login page. Please also review the City Standards page using the link below.

[View Business Details \(http://GoYachats.com/Organizations/Details/2942\)](http://GoYachats.com/Organizations/Details/2942)

[Edit Business Details \(http://GoYachats.com/Organizations/Edit/2942\)](http://GoYachats.com/Organizations/Edit/2942)

[City Standards \(http://goyachats.com/help/License_Standards.html\)](http://goyachats.com/help/License_Standards.html)

- ☐ I have reviewed and updated the on-line information for my business.
- ☐ I understand the City standards that apply to my business and agree to comply with all City regulations. I also understand that my license for next year is not valid until the City receives payment for the amount indicated.
- ☐ I no longer operate a business / rental unit in Yachats.

Sign: _____

Date: _____



City of Yachats

INVOICE

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 012295-2024

Invoice Date: 1/5/2024

Beach Street Kitchen

Due Date: 4/1/2022

PO Box 983
Yachats, OR, 97498

Balance Due: \$8,883.84

E-Delivery Address: bjhoberg@gmail.com

Description	Amount Due
Food and Beverage Tax for January 2022 (Reciepts \$5,014.96; Rate 5%; Admin Credit \$12.54)	\$238.21
Food and Beverage Tax for February 2022 (Reciepts \$9,891.88; Rate 5%; Admin Credit \$24.73)	\$469.86
Food and Beverage Tax for March 2022 (Reciepts \$8,452.55; Rate 5%; Admin Credit \$21.13)	\$401.50
Non-Payment Penalty	\$110.96
Non-Payment Administrative Fee	\$100.00
Non-Payment Penalty	\$132.05
Non-Payment Penalty	\$145.26
Non-Payment Penalty	\$159.78
Non-Payment Penalty	\$175.76
Non-Payment Penalty	\$193.34
Non-Payment Penalty	\$212.67
Non-Payment Penalty	\$233.94
Non-Payment Penalty	\$257.33
Non-Payment Penalty	\$283.07
Non-Payment Penalty	\$311.37
Non-Payment Penalty	\$342.51
Non-Payment Penalty	\$376.76
Non-Payment Penalty	\$414.44
Non-Payment Penalty	\$455.88
Non-Payment Penalty	\$501.47
Non-Payment Penalty	\$551.62
Non-Payment Penalty	\$606.78
Non-Payment Penalty	\$667.46
Non-Payment Penalty	\$734.20
Non-Payment Penalty	\$807.62
Subtotal:	\$8,883.84

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.



City of Yachats

INVOICE

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 012296-2024

Invoice Date: 1/5/2024

Beach Street Kitchen

Due Date: 7/1/2022

PO Box 983
Yachats, OR, 97498

Balance Due: \$7,839.92

E-Delivery Address: bjoberg@gmail.com

Description	Amount Due
Food and Beverage Tax for April 2022 (Receipts \$8,399.96; Rate 5%; Admin Credit \$21.00)	\$399.00
Food and Beverage Tax for May 2022 (Receipts \$9,774.79; Rate 5%; Admin Credit \$24.44)	\$464.30
Food and Beverage Tax for June 2022 (Receipts \$9,597.33; Rate 5%; Admin Credit \$23.99)	\$455.87
Non-Payment Penalty	\$131.92
Non-Payment Administrative Fee	\$100.00
Non-Payment Penalty	\$155.11
Non-Payment Penalty	\$170.62
Non-Payment Penalty	\$187.68
Non-Payment Penalty	\$206.45
Non-Payment Penalty	\$227.10
Non-Payment Penalty	\$249.80
Non-Payment Penalty	\$274.78
Non-Payment Penalty	\$302.26
Non-Payment Penalty	\$332.49
Non-Payment Penalty	\$365.74
Non-Payment Penalty	\$402.31
Non-Payment Penalty	\$442.54
Non-Payment Penalty	\$486.80
Non-Payment Penalty	\$535.48
Non-Payment Penalty	\$589.02
Non-Payment Penalty	\$647.93
Non-Payment Penalty	\$712.72
Subtotal:	\$7,839.92

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.



City of Yachats

INVOICE

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 012297-2024

Invoice Date: 1/5/2024

Beach Street Kitchen

Due Date: 10/1/2022

PO Box 983
Yachats, OR, 97498

Balance Due: \$7,304.15

E-Delivery Address: bjhoberg@gmail.com

Description	Amount Due
Food and Beverage Tax for July 2022 (Receipts \$10,310.60; Rate 5%; Admin Credit \$25.78)	\$489.75
Food and Beverage Tax for August 2022 (Receipts \$11,693.37; Rate 5%; Admin Credit \$29.23)	\$555.44
Food and Beverage Tax for September 2022 (Receipts \$12,893.88; Rate 5%; Admin Credit \$32.23)	\$612.46
Non-Payment Penalty	\$165.76
Non-Payment Administrative Fee	\$100.00
Non-Payment Penalty	\$192.34
Non-Payment Penalty	\$211.58
Non-Payment Penalty	\$232.73
Non-Payment Penalty	\$256.01
Non-Payment Penalty	\$281.61
Non-Payment Penalty	\$309.77
Non-Payment Penalty	\$340.74
Non-Payment Penalty	\$374.82
Non-Payment Penalty	\$412.30
Non-Payment Penalty	\$453.53
Non-Payment Penalty	\$498.88
Non-Payment Penalty	\$548.77
Non-Payment Penalty	\$603.65
Non-Payment Penalty	\$664.01
Subtotal:	\$7,304.15

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.



City of Yachats

INVOICE

P.O. Box 345, Yachats, OR, 97498; 541-547-3565; CityHall@YachatsMail.org

Invoice No. 012298-2024

Invoice Date: 1/5/2024

Beach Street Kitchen

Due Date: 1/1/2023

PO Box 983
Yachats, OR, 97498

Balance Due: \$3,287.24

E-Delivery Address: bjoberg@gmail.com

Description	Amount Due
Food and Beverage Tax for October 2022 (Receipts \$13,048.48; Rate 5%; Admin Credit \$32.62)	\$619.80
Food and Beverage Tax for November 2022 (Receipts \$4,673.45; Rate 5%; Admin Credit \$11.68)	\$221.99
Food and Beverage Tax for December 2022 (Receipts \$2,414.88; Rate 5%; Admin Credit \$6.04)	\$114.71
Non-Payment Penalty	\$95.65
Non-Payment Administrative Fee	\$100.00
Non-Payment Penalty	\$115.22
Non-Payment Penalty	\$126.74
Non-Payment Penalty	\$139.41
Non-Payment Penalty	\$153.35
Non-Payment Penalty	\$168.69
Non-Payment Penalty	\$185.56
Non-Payment Penalty	\$204.11
Non-Payment Penalty	\$224.52
Non-Payment Penalty	\$246.98
Non-Payment Penalty	\$271.67
Non-Payment Penalty	\$298.84
Subtotal:	\$3,287.24

Please remit upon receipt. Payment may be in the form of a **check or cash**.
Make checks payable to the City of Yachats.

Fireworks Ban Lincoln County
(A unified approach is warranted)

January 2nd, 2024 **City of Newport** Draft & Public Hearing on prohibiting the sale and use of fireworks.

January 3rd 2024 **Lincoln County** adopted a new ordinance #532 regarding the ban of fireworks.

Bans the possession, use and sale of fireworks in unincorporated areas of Lincoln Co.

***Other cities in Lincoln County are following suit in order to support safety throughout the county.

January 11th, 2024 **Waldport** passed a new ordinance banning fireworks.

Bans the possession, use and sale of fireworks

January 16th, 2024 **Newport** City Council will discuss a new fireworks ordinance for possible adoption at that time. Proposal bans use and sale of fireworks.



January 17th, 2024 **Yachats'** City Council Agenda

Fireworks Sale & Use – by Jurisdiction – 12.22.23 NEWPORT CITY COUNCIL

Jurisdiction	Ordinance	Sales	Use
Unincorporated Lincoln County	#532 (First reading 12.20.22)	Sales, *possession, & use prohibited	Sales, possession, & use prohibited
* "Lincoln County may confiscate, destroy, remove, or have removed at the owner's expense all fireworks in violation of this section, when necessary for the preservation of public safety."			
Lincoln City	#2022-21*	Sales permanently prohibited	Use permanently prohibited on public property
* Ordinance #2022-21 "Considering all of the above, the Lincoln City Council finds that the prohibiting the use and sale of fireworks has benefits to the community, including through less risk of fire in an increasingly dry environment, and less disruption to humans and animals. The Council also finds that allowing for permitted public displays can serve to recognize and continue the traditions associated with fireworks, especially around holidays such as the Fourth of July. The Council finds that, on balance, this approach is the best way to reconcile both the current concerns and the historical traditions around fireworks.			
Depoe Bay	#331-21	Allowed	permanently prohibited*
** The city acknowledges that the use of consumer fireworks during particular weather or weather-related conditions can increase the risk of wildfire and potentially create traumatizing and harmful situations for children, adults, and animals.			
Newport	#2190	Allowed	Resolution required to prohibit – *weather related events
*Resolution #3981 – "Forecasts for moisture and temperature levels for the 2023 summer season are extreme heat and dry conditions; dangerous conditions for the use of fireworks; and significant likelihood of fire damage from the use of fireworks."			
Toledo	No ordinance	Allowed	Allowed
Siletz	No ordinance	Allowed	Allowed
Waldport	#781	Allowed	No public property – resolution for private
Yachats*	No ordinance	Allowed	Allowed
#185 (1996) – Prohibits wholesale/manufacturing of fireworks			

**BEFORE THE BOARD OF COMMISSIONERS
FOR LINCOLN COUNTY, OREGON
ORDINANCE # 532**

Amendments relating to FIREWORKS in unincorporated Lincoln County and declaring an emergency.

The Lincoln County Board of Commissioners ordains as follows:

SECTION 1.

Section 2 of this Ordinance are added to and made a part of LCC Chapter 2, as indicated .

SECTION 2.

FIREWORKS

2.6000 Purpose

(1) LCC 2.6000 through 2.6010 shall be known as the "Lincoln County Fireworks Ordinance," and is adopted pursuant to the authority provided the county in ORS chapter 480 and ORS 203.035.

(2) The purpose of the Lincoln County Fireworks Ordinance is to:

Establish a procedure for prohibiting the **possession**, sale and/or use of consumer fireworks to ensure the safety of the public from the danger of fire hazards.

2.6005 Definitions

(1) The words and phrases in LCC 2.6000 to 2.6010 shall have the meaning provided in ORS chapter 480.

2.6010 Fireworks Prohibition

(1) *[By resolution of the Board of Commissioners,]* The **possession and/or** use of consumer fireworks, as defined at ORS 480.111 (Definitions for ORS 480.111 to 480.165), which shall include using, discharging, or exploding consumer fireworks, *[may be]* **is** prohibited within the unincorporated limits of Lincoln County. *[for a specified duration based on certain weather or weather-related conditions.]*

PAGE 1 - ORDINANCE # 532

Note: Matter in **boldfaced** type in an amended section is new; matter in *[italic and bracketed]* is existing ordinance to be omitted. New sections are in **boldfaced** type.

Office of Lincoln County Legal Counsel
225 West Olive Street, Room 110
Newport, Oregon 97365
(541) 265-4108

1 (2) *[By resolution of the Board of Commissioners,]* The sale of consumer fireworks, as
2 authorized by ORS 480.160, *[may be]* is prohibited within the unincorporated limits of Lincoln
3 County. *[for a specified duration based on certain weather or weather-related conditions.]*

4 (3) Subsection 1 or 2 does not apply to a fireworks display that is issued a public display
5 permit under ORS 480.130 to 480.150.

6 (4) **Lincoln County may confiscate, destroy, remove, or have removed at the owner's**
7 **expense all fireworks in violation of this section, when necessary for the preservation of**
8 **public safety.**

9
10 2.6015 Penalties

11 (1) Violation of any provision of LCC 2.6000 to 2.6010 is punishable pursuant to LCC
12 Chapter 10.

13
14 **SECTION 3.**

15
16 This Ordinance being necessary for the immediate preservation of the public peace,
17 health and safety, an emergency is declared to exist and this Ordinance shall take effect
18 upon its passage.

Dated this ____ day of January, 2024.

Claire Hall, Chair

Kaety Jacobson, Commissioner

Casey Miller, Commissioner

ATTESTED TO:

APPROVED AS TO FORM:

, Recorder

Kristin Yuille, County Counsel

PAGE 2 - ORDINANCE # 532

Note: Matter in **boldfaced** type in an amended section is new; matter in *[italic and bracketed]* is existing ordinance to be omitted. New sections are in **boldfaced** type.

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Newport, Oregon 97365
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4/7

Adopted Jan. 11, 2024



CITY COUNCIL MEETING AGENDA COVER SHEET FOR DISCUSSION / ACTION

TITLE OF ISSUE: A proposed ordinance regulating the use of consumer fireworks

FOR MEETING DATE: January 11th, 2024

SUMMARY OF ISSUE:

At the previous meeting, the Waldport Council directed staff to bring this issue before them if the County passed their Fireworks ordinance. On January 3rd, 2024, the county unanimously passed Ordinance 532 which effectively bans consumer fireworks within the county. Our version is, as requested, virtually identical.

This is the public hearing regarding the adoption of an ordinance banning the use, possession and sale of consumer fireworks within the city of Waldport.

PUBLIC HEARING PROCESS - LEGISLATIVE

1. CHAIR OPENS THE PUBLIC HEARING, READS THE ORDINANCE FOR THE FIRST TIME
2. ASKS FOR DECLARATIONS OF BIAS OR CONFLICT
3. STAFF REPORT
4. PUBLIC TESTIMONY
 - Public Statements in support of the ordinance
 - Public Statements in opposition of the ordinance
5. CHAIR CLOSES PUBLIC HEARING
6. DELIBERATIONS
 - Modifications based on public comment, or council concerns happen at this point.
7. DECISION
 - Unless substantially modified, a motion (suggested as below) to approve is required, and then the Ordinance is read by title again, and then a vote taken.
 - If substantially modified, the public comment period could be held for the next 14 days, then 'a motion to hold open the public comment period and remand the action on the ordinance to the February council meeting.'

STAFF RECOMMENDATION or ACTION REQUESTED:

Consideration and action on the ordinance based on the will of the council.

ORDINANCE NO. __803__

AN ORDINANCE REGARDING THE BAN OF FIREWORKS WITHIN THE CITY LIMITS, ADDING SECTION 9.02 AND AMENDING SECTION 8.08.105 (B) OF THE WALDPOR MUNICIPAL CODE, AND SETTING AN EFFECTIVE DATE;

WHEREAS, the Lincoln County Board of Commissioners passed LC Ordinance 532 banning the use, sale and possession of consumer fireworks as defined by ORS 480.111; and

WHEREAS, in the result of passage of this legislative ban, the City Council has indicated concern that our code matches the county code in terms of consistent and viable approach to firework control in the area; and

WHEREAS, the Chief of the Central Oregon Coast Fire and Rescue District has requested such a prohibition due to fire safety; and

WHEREAS, Lincoln County, and the City of Waldport have experienced fire related disasters; and

WHEREAS, current coastal resources are not readily able to deal with the potential for a firework related conflagration as seen in other areas of Oregon;

NOW THEREFORE, THE CITY OF WALDPOR ORDAINS AS FOLLOWS:

Section 1: To the Waldport Municipal Code shall be added Chapter 9.02 as follows:

Chapter 9.02 Fireworks

9.02.010 Definitions

All terms in Chapter 9.02 shall have the meaning as defined in ORS Chapter 480.

9.02.020 Fireworks Prohibition

A. The possession and/or use of consumer fireworks, as defined under ORS 480.111, which shall include the using, discharging, or exploding of consumer fireworks, is prohibited within the City of Waldport.

B. The sale of consumer fireworks, as authorized by ORS 480.160, is prohibited within the City of Waldport.

C. Subsections A and B do not apply to a firework display that is issued a public display permit under ORS 480.130 to ORS 480.150 and has received permission from the City to occur.

D. The Lincoln County Sheriff's office, acting under the authority granted by Lincoln County, may confiscate, destroy, remove or have removed at the owner's expense all fireworks in violation of this section.

9.02.030 Penalties

A. Violations of any provision of this Chapter 9.02 shall be considered a Class 'C' civil infraction under WMC 1.08 for the first offense, and a Class 'B' infraction for all subsequent offenses.

B. Violations of this Chapter by guests located at a registered vacation rental with the city may result in the revocation of the vacation rental license at the discretion of the city manager.

Section 2: The Waldport Municipal Code Chapter 8.08.105 (B) shall be amended to:

The use, discharge, sale and possession of Fireworks as defined by ORS 480.111 are regulated by WMC Chapter 9.02 as a matter of PUBLIC PEACE AND WELFARE.

~~Unless specifically authorized by the city, the possession, use, explosion, or discharge of fireworks is prohibited in all parks, streets and public spaces. This prohibition does not apply to fireworks covered by a property issued a public display permit under the terms of ORS 480.130 to ORS 480.150. As used in this provision, the term "fireworks" means any device defined at ORS 480.110(1) and ORS 480.127 for which a permit from the State Fire Marshal is required before it may be sold, kept, used, or exploded.~~

~~Further, upon resolution of the Council, fireworks as defined above may be banned within the limits of the City of Waldport for a specified duration for the good of the City.~~

Section 3: This ordinance shall take effect the 1st of the next month following passage.

MOVED FOR PASSAGE BY _____, SECONDED BY _____.

ADOPTED BY THE COMMON COUNCIL OF WALDPOROT THIS 11th DAY OF JANUARY, 2024 BY THE FOLLOWING VOTE.

HOLLAND _____

DUNN _____

WOODRUFF _____

KILDUFF _____

SEVERSON _____

BOOTH _____

MORRIS _____

SIGNED by the Mayor this 11th day of January 2024.

Greg Holland, Mayor

Attested by Reda Eckerman, City Recorder

Ordinance #__803__



City Council Regular Meeting
Meeting Date:

AGENDA ITEM SUMMARY

ITEM NO:

ITEM TITLE:

Delete tripping hazard at treewells in sidewalk on the east side of Hwy 101 near Blue Whale

DISCUSSION/ISSUE:

The 3 tree wells in the sidewalk as part of the Hwy 101 Improvements are again a tripping hazard. Public Works filled the holes with asphalt some time back, it has settled and will again if that is the temporary fix again.

FISCAL IMPACT:

\$500 ?

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability- The increase would add money to the general operating fund
- b. Deliver efficient, effective, transparent municipal services
- c. Provide safe access to and use of city infrastructure, trails, and parks
- d. Environmentally responsible in all that we do
- e. Effectively manage and plan for the city's financial needs
- f. Synchronize and update city policies and administrative rules.

RECOMMENDATION:

Public Works & Streets Commission recommends that the planting of trees or shrubs be revisited and accomplished. Selection of the trees or shrub to be adequately sized to be an obvious deterrent to individuals walking in that path.

ALTERNATIVES:

1. Thin metal plate can be tack welded by PW in the interim until a planting is installed if given the direction.
- 2.

PREPARED BY:

Linn West, Chair
Public Works & Streets Commission

ITEM'S ATTACHED:



City Council Regular Meeting
Meeting Date:

AGENDA ITEM SUMMARY

ITEM NO:

ITEM TITLE:

Emergency Information and Go Bags for Visitors in Vacation Rentals

DISCUSSION/ISSUE:

It is not known to what extent the Licensed Vacation Rentals are providing information for evacuation in case of an emergency. Those visitors need to have access to information; evacuation map and minimum supplies for an Emergency. This can be linked to the Annual Inspection to confirm that the information and Go Bags are provided.

The Conex's the City has, are primarily set up for longer term support rather than the first response to evacuate. The Conex recently installed at the Fire Station is provided with Go Bags for Motel visitors from Overleaf & Fireside. There is information posted indicating that at the Hotels.

Future discussion should the more of the other Hoteliers become responsible for this and how?

FISCAL IMPACT:

Suggest that the Owners of the Vacation Rentals provide the 'Go Bags', a list of minimum items can be provided to them, or if they do not choose to create their own, they could purchase Go Bags from the City. The City, thru the Emergency Preparedness Committee would put together Go Bags and charge 'at cost' to the Owners, roughly \$100/bag. Final cost to be determined once contents listed approved. Intent is no cost impact to City.

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability- The increase would add money to the general operating fund
- b. Deliver efficient, effective, transparent municipal services
- c. Provide safe access to and use of city infrastructure, trails, and parks
- d. Environmentally responsible in all that we do
- e. Effectively manage and plan for the city's financial needs
- f. Synchronize and update city policies and administrative rules

RECOMMENDATION:

Recommend that the Vacation Rental License includes the requirement to provide information regarding Emergency response, evacuation, Map and Go Bags. The recommendation is for the Owner's to have one 'Go Bag' per two people per bedroom. To include, at a minimum: One backpack with 2 each - water filter straws, water bottles, stocking caps, gloves, small flashlights, ponchos and 18 protein bars (3/day/person x 2)

ALTERNATIVES:

1. City could provide 'Go Bags' and they be placed in various Conex's and information to get to the Conex. Cost impact: \$100/bag for 2 people or \$50/bag per person x ? number of people (if 125 rental units = 337 bedrooms x 2(?) people 674 people = \$33,700)
- 2.

PREPARED BY:

Linn West, Chair
Public Works & Streets

ITEM'S ATTACHED:

City of Yachats Cascadia Event Disaster Relief Supply Cache Proposed Project

Yachats Public Works
Emergency Preparedness Committee
May 2022

Project Background and History



- Background: Yachats is subject to potential natural disasters such as: earthquakes and tsunamis. To prepare for a Cascadia Event, local governments are establishing caches of emergency basic survival supplies for the benefit of survivors to stabilize and supplement until outside agencies can bring supplies from unaffected areas.
 - City of Yachats recognizes many visitors and citizens will be displaced during a Cascadia event and desires to accumulate short term disaster supplies to stabilize and supplement survivors in a secure means and in a relatively survivable location outside of the tsunami inundation zone
 - Supplies will consist of water, shelter, food, communications, warmth, sanitation and basic first aid
- History: City currently has two community emergency basic survival supply caches
 - North side cache is located on Radar Road – this cache needs supplies refurbished and added to (current supplies aren't sufficient to support basic needs listed above)
 - South side cache is located on site with Water Tower – this cache needs replacement due to rust and humidity intrusion and supplies need refurbishing and additions (current supplies aren't sufficient to support basic needs listed above)
- Due to the growth of Yachats by both permanent residents and visitors, we propose enhancing existing and adding additional emergency supply caches to support a larger percentage of the community should a catastrophic disaster occur
 - Adding two additional caches and updating existing caches would provide basic survival supplies for approximately 800 people for 2-3 days
 - Summertime estimates of residents and visitors are in the area of 2-3K people on any given day
- Implementation of this project is one aspect of a larger complete Disaster Emergency Response plan that should address the following areas: Disaster Prevention, Preparedness, Response, Recovery and Mitigation

City of Yachats Cascadia Event Disaster Relief Supply Cache

Mission/Purpose

- **Hazards/Risks Addressed by Caches:** Post Cascadia Earthquake & Tsunami when essential utilities such as power, water, sewer, communications and food are not available
- **Purpose:** Provide immediate 2-3 day post disaster supplementation and stabilization relief for residents and visitors impacted by a Cascadia event in terms of Food, Water, Shelter, Sanitation, Basic First Aid while the city has time to regroup and set up a command center.
- **Focus/Scope:** Provide emergency supplies to supplement and stabilize surviving residents and visitors for 2 -3 days post Cascadia event
- **Target Locations:** Three locations north of Yachats River (YRFPD, Radar Rd, Cemetery), two locations south of Yachats River (water tower and TBD)
- **Note that as supply caches are dispursed post disaster, we expect city officials will have initiated a Rapid Needs Assessment to determine available resources for continued support of survivors as caches become depleted.**

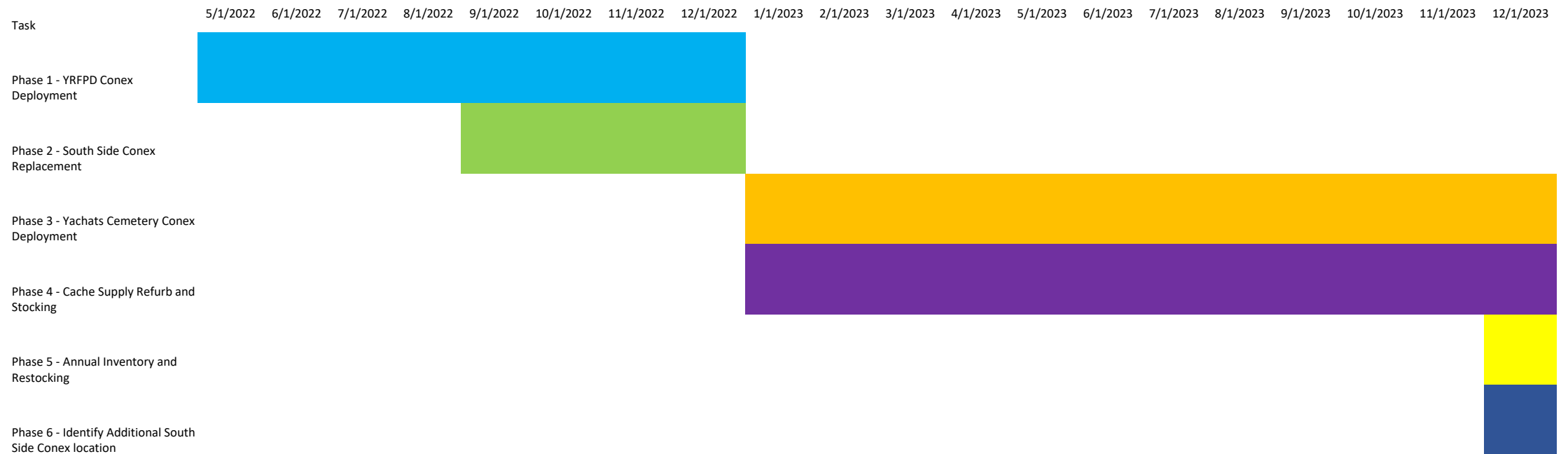


Phased Cache Deployment and Maintenance Proposal



- The Emergency Preparedness Committee is proposing a multi phase plan to expand and update our current Emergency Preparedness Supply Caches
- | | |
|------|---|
| 2022 | <ul style="list-style-type: none">• Phase 1: Add an additional container (conex) at the Yachats Rural Fire Protection District location<ul style="list-style-type: none">• This location is out of the inundation zone and is a gathering area for tsunami evacuations.• Two hotels are directly across from the fire station and would have evacuees coming from those locations• The owner of the Overleaf and Fireside hotel has committed to funding the deployment and stocking of this site• Phase 2: Replace Southside cache container (conex) and refurbish supplies as needed<ul style="list-style-type: none">• Existing conex will be removed and used as scrap metal by outside vendor• Supplies from existing Conex will be stored at YRFPD cache location while conex is replaced |
| 2023 | <ul style="list-style-type: none">• Phase 3: Add an additional conex at the Yachats Cemetery<ul style="list-style-type: none">• Cemetery board is okay with city placing conex at this location which is out of tsunami inundation zone• Goal is to try and get funding from other local hotels near to that area to pay for this cache• Phase 4: Update supplies in all Caches<ul style="list-style-type: none">• Supplies need refurbishing and also adding to in order to meet the goals of basic survival |
| 2024 | <ul style="list-style-type: none">• Phase 5: Maintenance of all supply caches with annual inspections and updates as needed<ul style="list-style-type: none">• Conex Containers must be monitored and maintained• Supplies must be inventoried annually and replaced as expiration occurs• Phase 6: Identify and locate another supply cache on South side of Yachats |
- Starting with YRFPD Conex Deployments allows us to store supplies from South Side Conex while replacement of that conex occurs

Yachats Phased Cache Deployment Schedule



Phase 1 Budget

- Phase 1: Add an additional conex at YRFPD

Budget for Basic Needs Cache Supporting 300 people		
ITEM	Description	Total
<u>CONEX</u>	Container and ground prep	5675
<u>INCIDENT COMMAND</u>	Instructions for Conex Use	210.48
<u>COMMUNICATION EQUIPMENT</u>	Radios	204.98
<u>WATER</u>		1954.71
<u>EXCRETIA DISPOSAL</u>	Toilets	285.06
<u>SANITATION</u>	Cleaning	128.99
<u>FIRST AID</u>		1128.99
<u>FOOD</u>		2159.48
<u>LIGHTING/POWER</u>		249.5
<u>SHELTER</u>	Tents	3729.7
<u>PERSONAL WARMTH</u>	Hats, gloves, blankets	1930.9
<u>TOOLS</u>	Shovels, ladder, etc	364.28
<u>PETS</u>		77.97
<u>RELOCATION</u>	Stretcher	479.78
<u>POWER</u>	Solar Power Plant & PV panels	1597
<u>CACHE STORAGE</u>	Shelves, Storage Bins	2913.25
		0
TOTAL		\$23,090

*Note that Drew Roslund from Overleaf Hotel has agreed to fund conex deployment for up to \$6K at YRFPD to meet the needs of any visitors/hotel staff that may be impacted from his hotels. This is specific to Phase 1.

*Detailed Budget in Backup Materials

*Total budget for all five phases could run between \$80-\$100K not including ongoing maintenance and restocking as items expire. This could be pushed out over multiple funding cycles if necessary.

Backup Materials – Detailed Budget

Yachats Cache Supplies

300 people/2-3 days

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
Conex							
20' Conex	1	5650	5,650.00	Price Quoted to Neal			
Cement Blocks for Foundation	10	2.5	25.00	Cement Block Pavers 4"x8"x16"	Lowes	https://www.lowes.com	
Ground Prep	N/A						
Electrical Drop	N/A						
Incident Command							
dry box	1	84.58	84.58	Protective Case, for instructions and batteries	Grainger	https://www.grainger.com	
Incident Command guidance protocol binder	1	101.19	101.19	Durable View Round-Ring Binder, 2" Rings, 61% Recycled	Office Depot	https://www.officedepot.com	
ICS flashlights	4	16.99	29.95		Amazon	https://www.amazon.com	
AA batteries	200	26.99/100	53.98	AA Batteries	Amazon	https://www.amazon.com	
Color coding labels	1	\$15.99	15.99		Amazon	https://www.amazon.com	
sharpies	12	15.79	15.79	Packs of 12	Office Depot	https://www.officedepot.com	
Communication							
Hand Held CB Radio	1	139	139.00		Amazon	https://www.amazon.com	
NOAA Weather Radio	1	32.39	32.39		Amazon	https://www.amazon.com	
waterproof notebook	1	33.55	33.55	All Weather Notebook, 6-3/4" x 8-3/4"	Grainger	https://www.grainger.com	
H2O	blue			need 1 gal/person/day=1840			
Jugs with spigots	4 (only one spigot)	100/ pac of 4	108.00	API Kirk Containers 5 Gallon Samson Stackers, Blue, 4 Pack	Amazon	https://www.amazon.com	
Spigots for water jugs	3	\$9.00	27.00	API Kirk Containers 5 Gallon spigots	Amazon	https://www.amazon.com	
Drinking Cups	1000	128.99/ box	128.99	paper Hot Cups 12 Oz. White 1000/Ct	Office Depot	https://www.officedepot.com	
SOS kits (55 gal barrel, pump, wrench)	4	96.5	378.00	SOS kits (55 gal barrel, pump, wrench)	SOS products	https://www.sosproducts.com	
55 gal Water Barrels	12	60*12 + 567 shipping	1,287.00		SOS products	https://www.sosproducts.com	
50 foot filling hose	1	25.72	25.72	Water Hose	Grainger	https://www.grainger.com	
Excretia Disposal	black						
toilet seats buckets sets	3	18	54.00	1 for each 100 people	SOS Products	https://www.sosproducts.com	

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
toilet paper	150	\$0.99/1 roll/2 ply 500 sheets	150.00	1 roll/person/week	SOS Produ	https://www.sos	
Pop Up Toilet Tent	3	24.02	72.06	Pop Up toilet tents	Amazon	https://www.am	
toilet bags	2	4.50/25 pk x10	9.00	change each bucket 3 x day	SOS Produ	https://www.sos	
rope (see below)							
gloves (see below)							
Sanitation	black						
household bleach	Pack of three 1.5gal b	29.56	29.56	amazon	Amazon	https://www.am	
5 gal bucket	1	5	5.00		Lowes	https://www.low	
diapers - disposable	1 pack	\$45.00	45.00	expect 1-2 babies max	Grocery sto		
large plastic garbage bags	50	29.53/50 pak	29.53		Amazon	https://www.am	
hand sanitizer	10	1.99/ 8 oz	19.90		SOS Produ	https://www.sos	
First Aid	red						
50 Person Trauma Kit	4	274	1,096.00	50 Per Trauma Medical Kit	Fisher Scie	https://www.fish	
medical lights	8	32.99/pk 8	32.99	3 aa needed/per	Amazon	https://www.am	
Food	orange			emergency ration (800 cal/person/day)=800*300*3 =			
SOS emergency bars (2400 calories)	24 per case x 15	138.23/case	2,073.45	One third bar PP/Day for 2-3 days = 300 bars/24	Home Dep	https://www.hor	
small Zip lock bags	500	44.60/box of 500	44.60	2 mil 6 x 10 bags to store remaining portion of bar. Fo	Amazon	https://www.am	
gloves	200	19.95/box of 200	6.81	Food Grade Vinyl Gloves	Amazon	https://www.am	
knives	2	\$7.29	14.58	<u>Knives</u>	Amazon	https://www.am	
cutting boards	2	\$10.02	20.04	Crestware 9" cutting board	Grainger	https://www.gra	
Lighting/Power	yellow						
lanterns for tent/bathrooms/camp	20	22.91/4 pack x	114.55	<u>Five 4 packs needed</u>	Amazon	https://www.am	
flashlights	50	26.99/10pk	134.95	Five 10 packs needed	Amazon	https://www.am	
Shelter	green						
straight wall tents	10	349.99	3,499.90	<u>12 person tents (assume some people will have their o</u>	Core	https://www.cor	
tarps 16 X 20	10	22.98	229.80	15x20 5.1 min	SOS Produ	https://www.sos	
rope (see below)					na		
Personal Warmth	pink						
emergency blankets	300	40.00/box of 50	240	box of 50 need 6 boxes	Amazon	https://www.am	
ponchos	150	9.06/box of 6	226.5	box of 6 need 25-	Amazon	https://www.am	
hats	100	84.00/48 x 2	168	<u>Warm hats</u>	Amazon	https://www.am	
warm gloves	100 pairs	60.00/48 pairs	120		Amazon	https://www.am	

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
warm blankets	20	58.82	1176.4	fire blanket wool	Grainger	https://www.grainger.com	
Tools	brown						
zip ties	500	17.85/500	17.85	Nylon 6/6 Cable Tie Kit, Black 650 pieces	Grainger	https://www.grainger.com	
duct tape	3	27.89	83.67		Grainger	https://www.grainger.com	
pocketknives	2	19.44	38.88		Grainger	https://www.grainger.com	
ladder	1	89.9	89.9	4 ft	Amazon	https://www.amazon.com	
rope- shelter & excretia	1000 feet 550 peral li	66.99/1000ftx2	133.98	<u>Paracord</u>	Amazon	https://www.amazon.com	
Pets	white						
dog poop bags	100	21.99 for 1080 count	21.99		Chewy	https://www.chewy.com	
dog food	30	55.98/30 lbs	55.98	30lb - one dog eats 270 g/day-5,400g	Chewy	https://www.chewy.com	
Relocation	purple						
Basket Stretcher	1	479.78	479.78		Grainger	https://www.grainger.com	
Power	white						
Solar Power Station w/cell	1	899	899	Portable Power Station	Ecoflow	https://us.ecoflow.com	
Solar Panel	2	\$349.00	698	160W Solar Panel	Ecoflow	https://us.ecoflow.com	
Cache Storage							
storage tubs	30	70.50/6 pack	352.5	sterilite 18 gal tote	Amazon	https://www.amazon.com	
Storage Shelves	5	109	545		Grainger	https://www.grainger.com	
Miscellaneous Purchases			1500	Miscellaneous Tools etc.	TBD		
cargo nets	4	33.95	135.8	7'x5'	Amazon	https://www.amazon.com	
lock box	1	379.95	379.95	ABUS Conlock	Global Indu	https://www.globalindustrial.com	

TOTAL COST

23,090.03



City Council Regular Meeting
Meeting Date:

AGENDA ITEM SUMMARY

ITEM NO:

ITEM TITLE: Charge for Emergency Preparedness Committee

DISCUSSION/ISSUE:

The Emergency Preparedness Committee would like Council's direction as to where they should put their efforts finishing this year and for next year 24-25. They are working on educational activities and believe more emphasis is needed on what the City is providing for residents & visitors after an event.

Current Conex containers supply items and food for a number of individuals now but will not hold additional GoBags. The 2 main Conex's are not in the best location or condition. A plan was proposed a couple of years ago to replace, relocate and add Conexes, but it was not endorsed. Should this be a direction to try to resurrect, refine and pursue this approach or just rely on providing Education. How best is their time to be used that the Council would support.

FISCAL IMPACT:

2023-2024 None

2024-2025 To be determined by direction of Council

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability- The increase would add money to the general operating fund
- b. Deliver efficient, effective, transparent municipal services
- c. Provide safe access to and use of city infrastructure, trails, and parks
- d. Environmentally responsible in all that we do
- e. Effectively manage and plan for the city's financial needs
- f. Synchronize and update city policies and administrative rules.

RECOMMENDATION:

Requesting a general direction, supported by Council, beneficial to the entire Community, to pursue in addition to Education.

ALTERNATIVES:

- 1.
 - 2.
-

PREPARED BY:

Linn West, Chair
Public Works & Streets Commission

ITEM'S ATTACHED:

Previous Report prepared by Committee

OCEAN VIEW DRIVE WALKWAY – GENERAL INFORMATION FOR THOSE WRITING A LETTER OF SUPPORT

Project area – along the S side of Ocean View Drive between Highway 101 and Beach Street

Need - As one of the main routes from one part of town to another, there is high pedestrian use. However, there is no alternative to walking in the traffic lane and there is a steep drop off at the edge of the asphalt road surface.

Purpose – to provide safe pedestrian access along Ocean View Drive; to complete a link in the OCT; and to provide space, ADA accessible, and including seating, for folks to mingle and visit while enjoying the scenery.

Cost and funding – the cost is estimated at approx. \$1.2 million. Your letter of support will be an important part of a grant application to Oregon State Parks to cover 80% of total project cost.

Timing – the grant application is due by April 1, 2024 and it is hoped that construction will start by the end of 2024 with completion in 2025.



Benefits - This section of Ocean View Drive between Highway 101 and Beach Street is notable for two reasons: its scenic beauty and its dangerous walking conditions.

There are great views both across and up the Yachats River as well as across the estuary out to the ocean.

Since it is not feasible to widen the road and put in a sidewalk, a raised boardwalk will be constructed with a substantial overlook to facilitate viewing, photographing, and social interaction.

This section of Ocean View Drive is part of the 804 Trail and, also, part of the Oregon Coast Trail. The state legislature has mandated completion of the OCT.

As part of the project, the telephone poles along Ocean View Drive and Beach Street will be removed and the power will be undergrounded. Materials will be long lasting and largely recycled and ecofriendly.





*City Council Regular Meeting
Meeting Date: January 17, 2024*

ITEM TITLE: Community Renewable Energy Resiliency Plan- Yachats Resilient Civic Campus

DISCUSSION/BACKGROUND/ISSUE:

The City of Yachats received a \$100K planning grant from the Oregon Department of Energy with a group of professional consultants, a City workgroup, and an advisory group to identify needs and priorities that support a more resilient Civic Campus.

FISCAL IMPACT:

The City of Yachats can approve the identified priority plan and apply for a \$1,000,000, no-match required grant for construction through the Oregon Department of Energy.

To show that we have invested in the project, the city will cover an estimated 20% of the budget for soft costs.

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability
- b. Deliver efficient, effective, transparent municipal services
- c. Provide safe access to and use of city infrastructure, trails, and parks
- d. **Environmentally responsible in all that we do**
- e. Effectively manage and plan for the city's financial needs
- f. Synchronize and update city policies and administrative rules.

RECOMMENDATION:

This Advisory Group recommends supporting the continued work toward finalizing the Community Renewable Energy Resiliency Plan and the Priority Project as currently designed. The final plan and priority project will then be brought to the City Council for final approval and possible approval for applying to the 2024/2025 ODOE Construction Grant for the priority project at the City Council meeting on February 21, 2023.

Respectfully submitted,
Advisory Group Members

ALTERNATIVES:

1. *Approve the planning project at the January 17th meeting and approval for applying for the 2024/2025 Construction Grant*
2. *Vote not to approve applying for the 2024/2025 ODOE Construction Grant*

PREPARED BY:

Bobbi Price
Yachats City Manager

ITEM'S ATTACHED:

Yachats Resilient Civic Campus Plan.



YACHATS RESILIENT CIVIC CAMPUS PLAN

*Community Renewable Energy & Resiliency Planning Project
Made possible with grant funding from the Oregon Department of Energy*

DRAFT | JANUARY 7, 2024

Prepared for the City of Yachats by:

GREEN URBAN DESIGN | FORAGE DESIGN + PLANNING | SOLARC ENERGY GROUP | PARADIGM ENGINEERING



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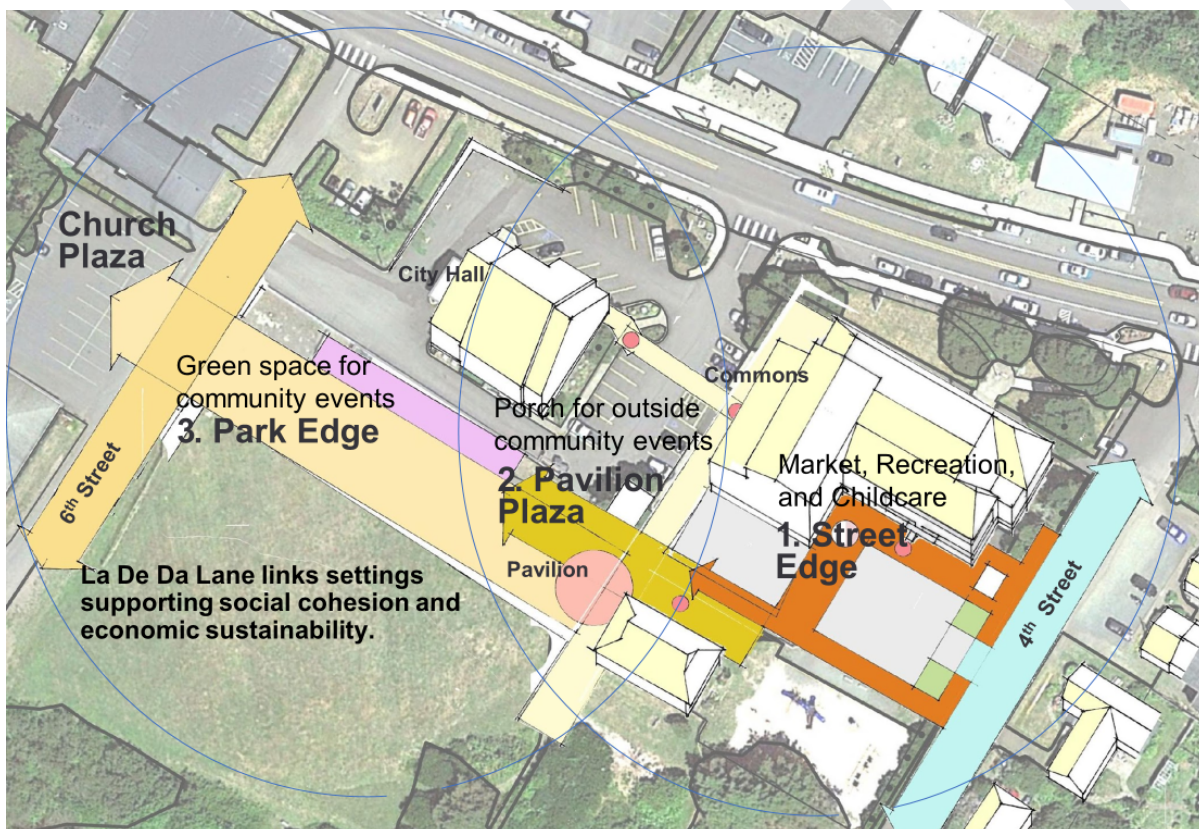
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I. Executive Summary

A Resilient Civic Campus Planning process was conducted by the City of Yachats to convene the community and consider how renewable power could help prepare for hazard events and leverage improvements supporting community resilience. As part of an Oregon Department of Energy (ODOE) Community Renewable Energy Planning (CREP) grant, a core focus of the project has been defining a renewable energy and storage project for the Civic Campus that improves power, communication, and access during and after a hazard event. Through engagement with the community and assessment of the Civic Campus buildings, the value of City Hall, Commons, and Pavilion as a critical location where a command center and refuge is a high priority, and where backup power can be supplied with renewable energy. It is also a place where investments can support economic vitality downtown and cultural events that are critical to the community cohesion which support community resilience.



1. Street Edge



2. Pavilion Plaza



3. Park Edge

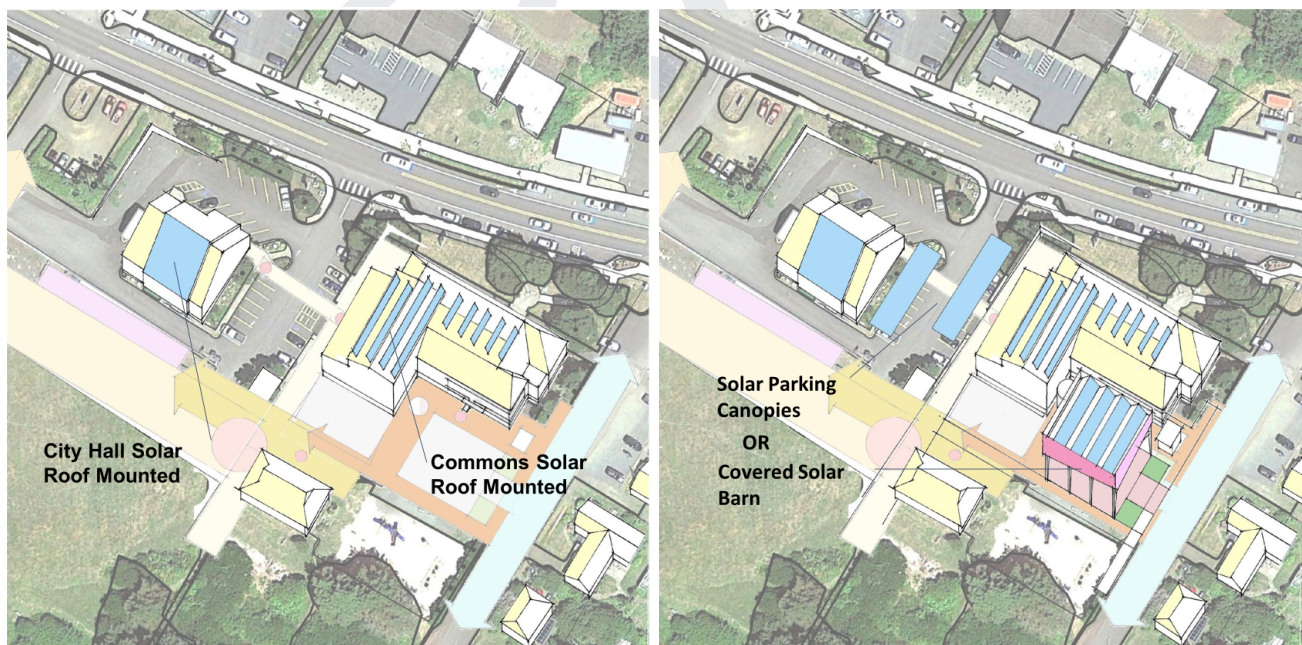
A framework that connects the north and southeast edges of the Civic Campus creating a focus for civic life and a refuge following a hazard event.

During a six month planning process, design and engineering consultants performed extensive assessments of Yachats' "Essential Facilities", made recommendations about potential projects, identified improvements for renewable energy and resiliency, and worked closely with the City and community through a series of public engagement events, advisory groups, survey and other public engagement. This included three large public meetings - a workshop, an in-person open house and an online open house. This outreach concluded that successful resilience projects should promote inclusivity with partners supporting LGBTQ, homelessness, food insecurity, tourism and other organizations on the Oregon Coast who include BIPOC equity outcomes in their mission and provide direct assistance, grant funding, and who can sustain long term partnership agreements with the City of Yachats to those communities.

Resiliency Recommendations

To date, hazard response has largely focused on a large Cascadia seismic event and the corresponding tsunami. A more extensive current understanding of frequent natural hazard events that could significantly disrupt energy systems include smaller Cascadia events, drought-aggravated wildfires, severe winter storms, and landslides. Facilities in the Southeast edge are reasonably located to survive these more frequent hazard events largely intact. This edge already functions as the central gathering spot in Yachats. It is known, accessible, and can provide both shelter and refuge, as well as serve as a communications command center. The primary deficiencies relate to limited back-up power systems. This plan outlines a path for implementing physical and organizational improvements that address these energy system deficiencies, enhance sustainable development in Yachats, and contribute to a growing social vibrancy centered on the Civic Campus.

Priority Project



Priority Project 78% of Power Need

Subsequent Project 100% of Power Need

With guidance from the Yachats Resilience Civic Campus Plan Advisory Committee, the plan identifies a priority project that establishes the electrical infrastructure needed to connect the Pavilion, City Hall, and Commons and to share renewable energy generation and back-up power up to 78% of the power needed on a yearly basis. It includes batteries and diesel generators to support power demand during the winter, when access to the sun's rays is limited. Citywide investments that anticipate power outage, communications, and access to caches, water, medical care, and hygiene facilities were identified for subsequent action.

An initial recommended priority project has been defined and documented in some detail. This project interconnects the electrical systems of all three facilities in the Southeast edge, upgrades existing panels and generator in the Commons, implements energy efficiency measures in both buildings, and installs a solar photovoltaic system to serve the entire edge with renewable energy. This initial project is recommended as a viable project to submit for subsequent grant funding. It is anticipated to provide up to 78% of the annual electricity needs of the Southeast Campus edge and to work in conjunction with the existing generator to provide adequate back-up power during an extended power outage. Solar panels would be installed on rooftop areas of both the City Hall and Commons buildings, and with an interconnected Pavillion, all three facilities can function to share power to support the community during an extended power outage.

“ Resilience doesn’t just mean emergency planning. Resilience comes from the sustainability, economic vitality, and health of our Community “

– Heard During Open House 1.

An extensive community outreach engagement and facility assessment effort was undertaken to identify the community needs, identify initial responses, and populate the recommendations contained within this plan. The table below (next page) organizes the most significant findings inclusive and exclusive of the recommended priority project.

The plan framework presents resiliency recommendations at three scales: Citywide, Civic Campus, and Building. This framework includes goals, objectives, guidelines, and criteria. It also includes recommendations for building City organizational capacity and community partnerships that can translate to project implementation success.

As can be understood, investment in resiliency for the City will be ongoing over many years. This plan is intended to be a living document. It identifies and recommends a way to get started, and a number of possible paths to continue that investment after an initial project. It also provides a roadmap and process framework to navigate those paths. City leadership and engaged citizens are strongly encouraged to make use of this as a meaningful planning tool.

CITYWIDE INTEGRATED SYSTEMS	Where & How Much	Resiliency Value
Basic Needs	Possible Location	Role
Refuge	Civic Campus Commons, City Hall, Church, Library etc	Shelter, warmth,
Energy Generation	Civic Campus Buildings	Power
Fuel Storage	Fire Station	Power, Diversity of Back up power
Fire Protection	Fire Station	Life Safety
Caches	Citywide, South of Bridge	Emergency Supplies
Water Filtration & Storage	South Edge Civic Campus, South of Bridge	Clean Water
Central Distribution Center	South Edge Civic Campus City Hall & Commons	Access to Food & Water
Mobile Generators	North Edge Civic Campus WWTP (& City Hall/Commons?)	Access to power
Information Center	Civic Campus, Kiosk near 4th	Tourism, Communication
Satelite phones, radios	City Hall, WWTP	Communication
Mobile Batteries Devices	North Edge Civic Campus WWTP (& City Hall/Commons?)	Access to Power
Refrigeration	Commons	Access to Food
Access - Bikes & Peds	Trails	Access
Vehicle Charging	Bike & EV Charging, City Fleet at WWTP	Batteries, tourism amenity, City fleet
Hygiene	Restroom Kiosk at Civic Campus South Edge	Hygiene
Training	City Hall/Commons Annual Event	Emergency Preparedness, Education
Signage	Trails, Meeting Points, Civic Campus Signage, Reader Board	Communication, Tourism, Education, Wayfinding
Medical Supplies	Caches, City Hall, Commons	Life Safety
Lighting	Trailheads, wayfinding to refuge & meeting points	Access, Communication, Wayfinding

The implementation of this plan makes a network of improvements that enriches the community and provides resilience to hazard events.

The needs and ideas originating from the community are incorporated into the assessment, planning, and implementation elements of this plan. It is intended to be a tool to be used to help consider good ideas, plan improvements, and build partnerships to advance investments that provide resilience in Yachats across the entire City. Appendices are referenced providing back up information supporting the plan elements.



II. ACKNOWLEDGEMENTS

CITY OF YACHATS WORK GROUP

Rick Santos, Interim City Manager
Kathryn Torrence, Grant Manager
Neal Morphis, City Clerk
Jacqueline Danos, Planning Commission Member
Marc Sacamoto, Planning Commission Member

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Drew Tracy: Yachats Fire Department
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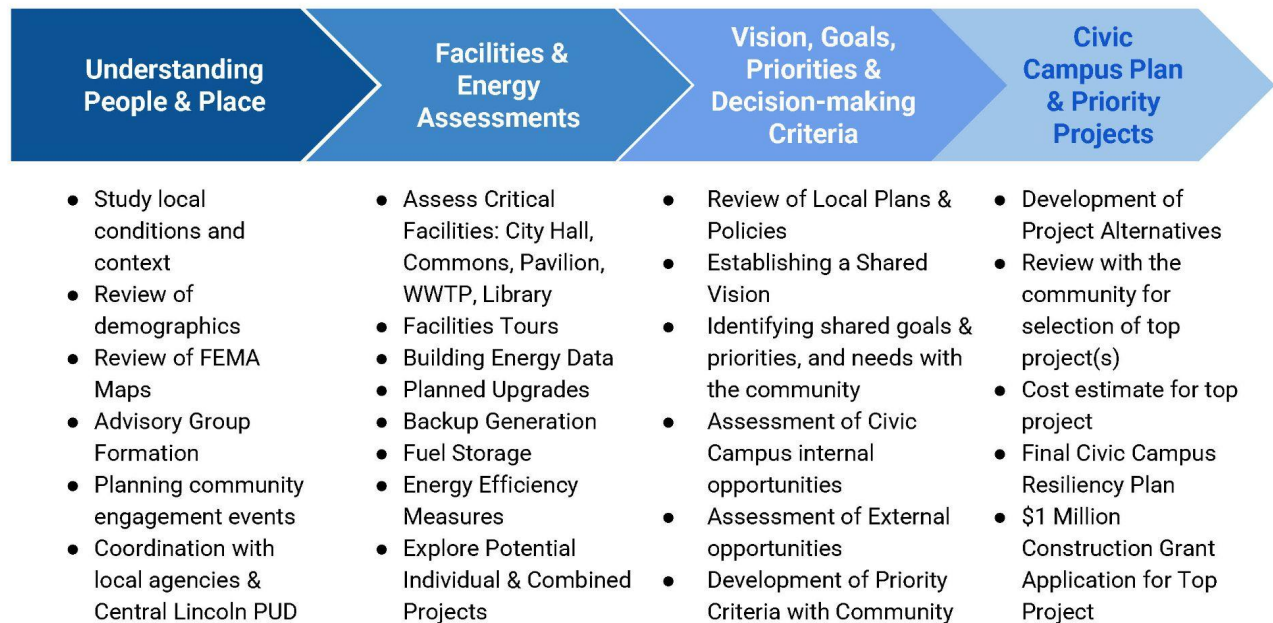
III. INTRODUCTION

Project Overview

In May 2023, The Oregon Department of Energy (ODOE) awarded the City of Yachats a \$100,000 Community Renewable Energy Project (CREP) planning grant. This grant funded a process to identify needs and priorities that support a more resilient Civic Campus. The following plan describes what was learned during the site and facility assessments, and the planning and community engagement process. The plan also identifies both Citywide and Civic Campus priorities and provides a guide for subsequent City policy action, grant funding, and physical improvement.

Over six months, beginning in August 2023, the design and planning consultants performed extensive facility assessments of relevant City of Yachats facilities. During this same time period, a series of public engagement outreach efforts were organized including advisory groups, public surveys, and three large public meetings - a workshop, an in-person open house and an online open house. Assessment findings combined with information collected during public outreach has translated to recommendations about potential future projects that are presented within this plan, along with documentation of the underpinning findings and outreach feedback.

The following is an overview of project process and planning steps to determine core priorities, opportunities, and key criteria for decision-making, selection of priority projects, and a final plan.



This plan summarizes:

- Priorities to promote resilience at three scales – citywide, Civic Campus, and individual buildings.
- Frameworks to make decisions about renewable power generation and energy storage projects that align planned improvements with identified Civic Campus recommendations.
- Project opportunities to invest in building durable power generation system projects such as photovoltaic systems, battery storage, and supporting electrical system infrastructure upgrades, that enhance the current systems that rely solely on utility power and limited diesel generator back-up.

How to Use this Document

As information was collected during the community engagement processes and meeting with the Advisory Group, it was organized into a plan document that can be used to guide decision-making on future Civic Campus projects that support resiliency projects. Ideally, these projects will position the City of Yachats to respond and recover from future hazard events, develop and construct renewable energy infrastructure, and advance local social and economic outcomes. Candidate projects should be evaluated to see how well they align with the goals, objectives, goals, guidelines, and criteria as identified within this plan. Using this plan as a contributory decision-making tool, the Civic Campus can achieve its full potential overtime as each project is considered, located, funded, designed, constructed, and operated. **Please see: Section V and Appendix D Final: 2.5 Criteria for Renewable and Resilient Energy**

Generalized steps to use this plan as a decision-making tool would involve the following.

1. Consider how a potential project supports Citywide, Civic Campus, or Building Scale Energy and Resiliency Criteria.
2. Respond to applicable objectives, goals, and guidelines to determine if there is a link between scales that might leverage social and economic outcomes that support resilience.
3. Consider how the project reinforces the Concept for public spaces linked along La De Da Lane which connects north and southeast edges.

Project Purpose

The purpose of this project is to define a number of potential renewable energy and storage projects for the Civic Campus that support citywide community resilience in power, communication, and access during and after a hazard event. In addition, a framework has been developed that can be used to identify and evaluate future projects that are not yet defined. Ultimately, a key deliverable for this project is to recommend and support decision-making on a priority project that can be considered for near-term follow-up construction grant funding by ODOE. Specifically, this CREP planning grant for a “Resilient Civic Campus” project provided support for:

1. **Technical studies** for building and site energy analysis.
2. **Planning to provide renewable power and hazard preparedness** to reduce risks.
3. **Community involvement** to identify priorities, needs and criteria for decision-making.
4. **Planning and selection of a renewable energy project** for a Phase 2 - \$1 million ODOE construction grant.

In general, the planning process was structured and executed to identify community-oriented criteria that should be considered for emergency preparedness that promotes resilience. These criteria translate to a number of more specific project strategies including but not limited to those that:

1. Allow the Civic Campus to provide power to needed community services after high-risk hazards occur.
2. Identify and plan for needed Civic Campus facility upgrades and public space improvements
3. Improve communication about emergency response and preparedness (e.g. signage).
4. Leverage emergency preparedness benefits with services that are needed day to day.
(Example: Plan for City to support EV charging of their vehicle fleet.)

Project Goals

During engagement with stakeholders and community at large, a number of goals related to community resilience were identified that connected the Civic Campus to further citywide goals.

Overarching emergent goals are to:

1. Be inclusive of all communities who would use the services provided in the Civic Campus following a power outage or other hazard event.
2. Provide an emergency response center in the Civic Campus with durable power for communication and access to services.
3. Build capacity for the areas south of the Yachats River in case they are cut off from the services provided in the Civic Campus.
4. Support public works efforts to provide and improve existing diesel and gasoline-powered emergency generation capability to maintain sewer and water system pump and lift stations.
5. Balance the electrical energy needs within the North and Southeast edges of the Civic Campus with the availability of renewable power to minimize diesel and gasoline use during an extended power outage.



Context Map

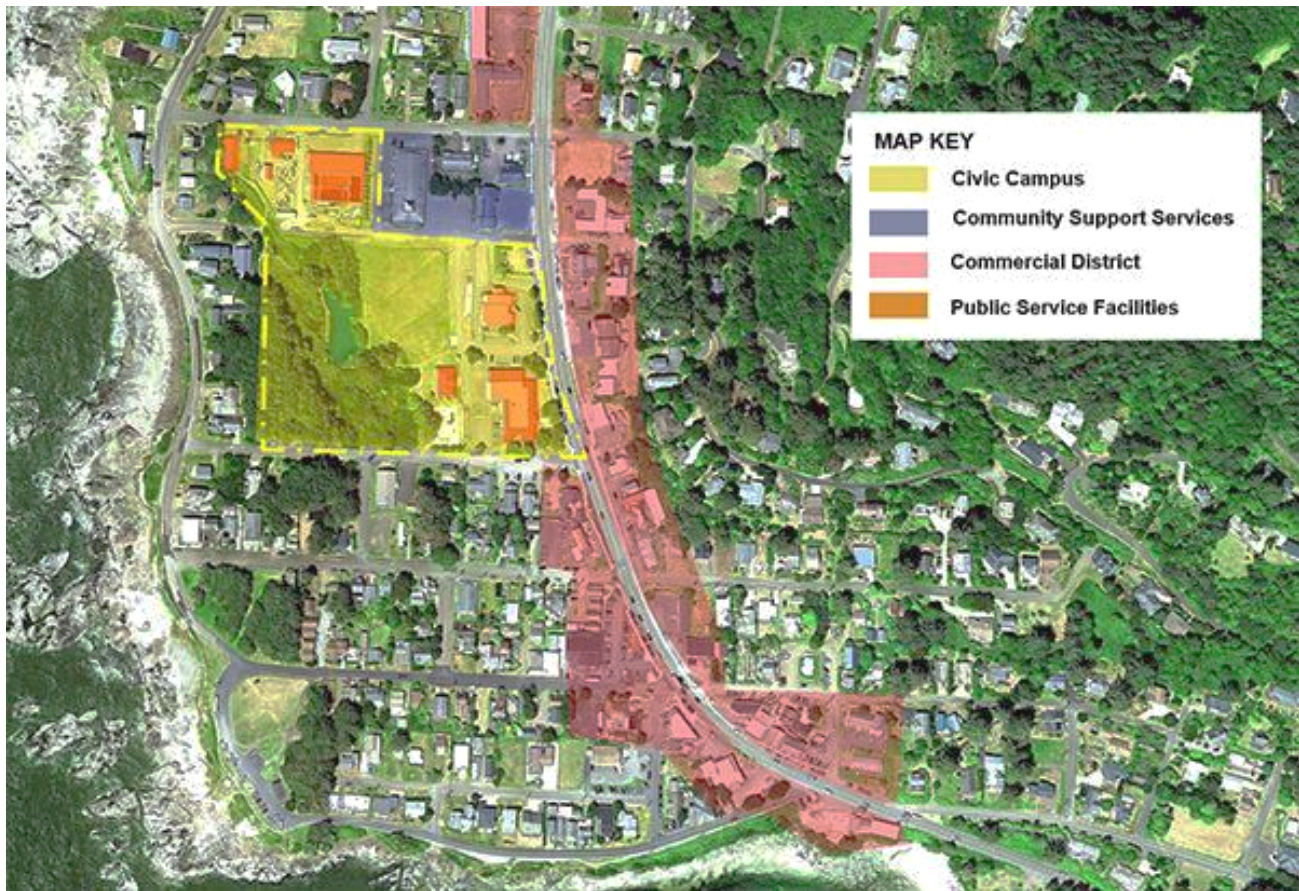
See Section V for a more detailed listing of goals at each of three community scales.

“Yachats is in a very isolated location that is vulnerable to disasters like we are seeing more and more all over the world. This project can make us safer and more secure.”

– Rick Sant, Yachats Interim City Manager

Civic Campus Context & Conditions

Yachats is a small coastal town near the Southern boundary of Lincoln County and similar to many of Oregon's coastal communities is bisected by Highway 101; the Pacific Ocean to the West and its Coastal Range geography starting immediately to the East. Yachats is also bisected North and South by its river and small tidal basin of the same name. The Siuslaw National Forest at over 630,000 acres, surrounds the community to the North, East and South.



Today, Yachats is a beloved and picturesque City. It is a community that recognizes its history and the value of this place on the coast to serve the many people who rely on it for family, social events, childcare, employment, recreation, and a refuge from hazard events. The area is host to many natural resources, public trails and cultural sites. However, its history also encompasses the brutal displacement of the indigenous people from the coast to internment facilities that were located within the boundary of the City that continues to traumatize that remaining community. This plan recognizes that there will be opportunities to leverage both energy resilience and cultural resilience. It encourages creative ways to build on current reconciliation efforts. Project scope elements that demonstrate sustainable design features and foster greater social cohesion shall include respectful signage and interpretive information about the people and cultures in this place in the past, the present and future.

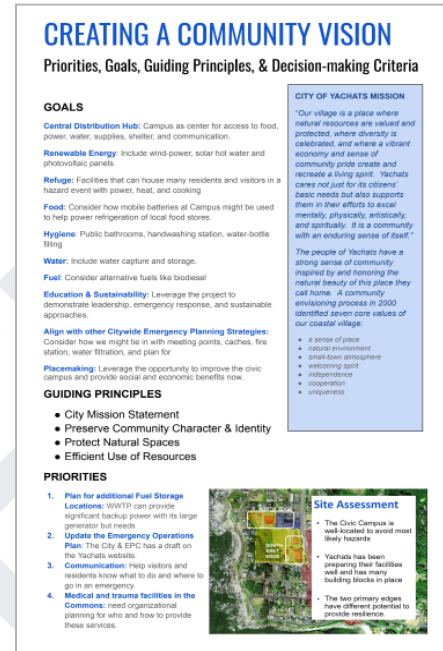
The central focus of this renewable energy and resiliency planning project is the 15-acre Civic Campus located in the figure to the right. This area includes the City Hall, public Library, Wastewater Treatment Plant (WWTP) and public works shops, Community Presbyterian Church, Park Pavilion, community park, and a Community Center (Yachats Commons). The latter is a shared social, childcare, meeting space and performance venue. This location is also in the heart of the business district with shopping, restaurants, lodging and recreation all within walking distance. The Civic Campus is envisioned to function both as refuge for the community during hazard events and as the organizational locus for civic response and recovery support. The civic buildings - City Hall, Commons, WWTP and the Library - all have designated roles that are critical to respond to emergencies and hazard events. The private facility (Presbyterian Church) currently supports key community resilience activities such as providing sleep and hygiene facilities for the homeless population, providing educational support for home-schooled children, and a community food pantry.

Policy and Design Context, Vision, Goals and Background

Understanding and shaping the approach first considered the site context and conditions as well as the role of the Civic Campus for resilience in relation to the City of Yachats as a whole. It also considered existing City policies, vision and goals, related mapping of hazards and emergency plans, cultural history and recent or planned City projects.

Policy and planning documents consulted in the process of developing the Resilient Civic Campus Plan and projects included the following:

- [2019 City of Yachats Comprehensive Plan](#)
- [Yachats Addendum to Lincoln County Hazard Mitigation Plan](#)
- [Yachats Area Strategic Plan \(1996\)](#)
- [Yachats Park Master Plan](#)
- Parks & Commons Survey responses
- 2023 Parks Plan Request for Proposals (RFP)
- [Yachats Emergency Operations Plan](#)
- [Capital Improvement Plans \(CIP\)](#)
- View the Future (VTF) Vision & [Cultural History](#)
- Hazard mapping & risk index
- [Yachats Evacuation Routes](#)
- [History of the Yachats Community Park & Wetlands \(2015\)](#)
- [Commons Policy Manual \(2019\)](#)
- [Oregon Resilience Plan \(2013\)](#)



*Image: Vision, Goals & Priorities
Poster from the 11/16/23 Open House*

Citywide Context: Resiliency & Emergency Response

As it is remotely located, Yachats serves as a regional center of essential services for Lincoln County's disaster response and is at the most southerly end of electric utility service. A byproduct of being at the end of the line is that an interruption of power elsewhere on the Utility grid could result in extended power outages to the Community. Power outage of up to a day are routine and are considered part of daily life at the Coast but outages of longer duration puts a strain on Community resources and the most vulnerable members of the Community. The Civic Campus was selected as the primary focus of this resiliency planning project because so many of the area's "Critical Service Facilities" are centrally located in this area.

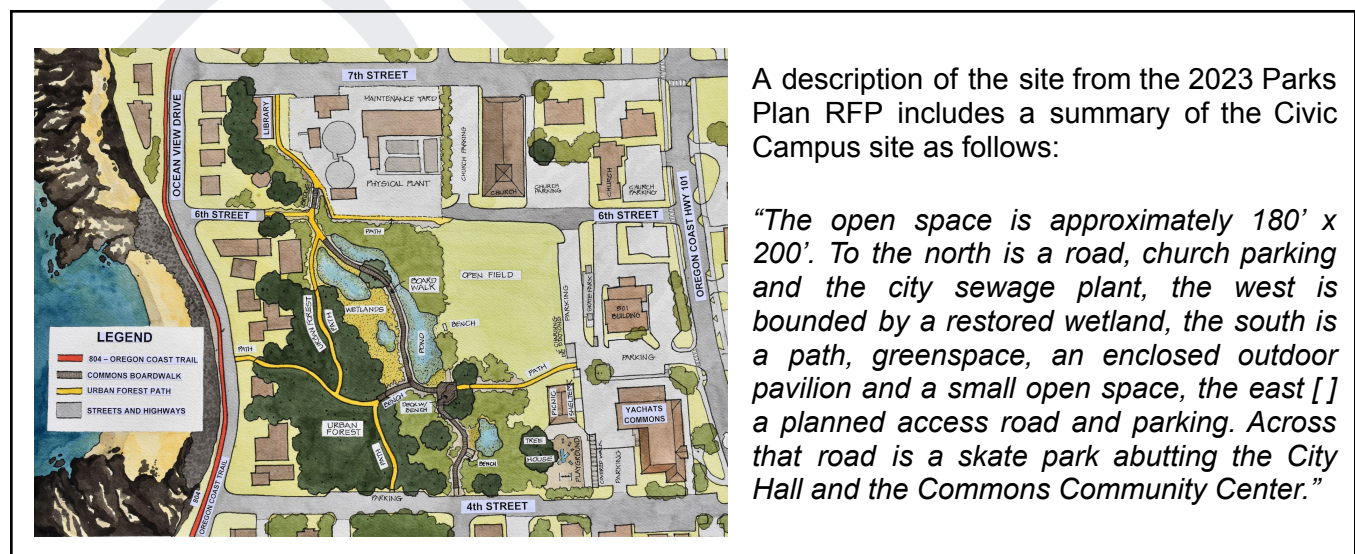
Additional essential emergency response facilities include the Fire Station, tsunami evacuation routes and community meeting points, disaster response caches with storage of supplies, food, and equipment. The Emergency Preparedness Committee has identified that two existing Disaster Response Caches need replacement due to age and additional caches have been deemed necessary to protect the community more fully in case of a catastrophic event. Existing cache locations are not easily accessed. A need for community gathering points on both the north and south side of the bridge has been identified. Water, food and power needs to be reliable at these gathering points, as they will become the assembly place during a tsunami event.

The Wastewater Treatment Plant has the opportunity to fill a separate resiliency need in the Community. Having a service voltage of 480 volts and a large backup generator makes the plant the logical location for charging of electric vehicles for the City as well as charging of portable battery packs that can be employed at a variety of locations in the Community. In this scenario, work at the Wastewater Treatment Plant will play the largest single role in meeting resiliency needs in the Community. It was not identified as the priority project because the City is not currently in the position to invest in electric vehicles and larger scale inverter and battery systems are still in the development stage.

Yachats has an extensive trail network that is well known to locals for access to refuge and higher elevation meeting points if roads are not passable. Given the average age of residents in Yachats many cannot use the trails system and will be in need of assistance. These trails may not be as familiar to the crowds of tourists that flock to Yachats for its coastal amenities, natural resources, small village charm and small businesses as well as abundant cultural events. While there is extensive tsunami signage for motorists and non-motorists, there is less information about other potentially more frequent hazards nor where and how to respond for safety, shelter and assistance. Opportunities exist to expand information awareness and information through travel and tourism bureaus, hotels and short term rentals, wayfinding signage, training and upgraded facilities to increase resiliency preparedness and make residents and visitors more secure in an unplanned event.

Campus Context: Central location for Community Access, Activities & Services

The Civic Campus is located in the heart of Yachats' central business district. It features a beloved public park with large green space, walking paths and wetland trails, public library, and WasteWater Treatment Plant, nearby church facilities also provide emergency response and houses a small transitional housing pod of tiny homes for houseless individuals. The Civic Campus is a hub of community life with regular festivals and events held at The Commons which houses a child care center for [Yachats Youth and Family Activities Program](#), and meeting spaces for City commissions. This is located in the Southern edge of the campus and close to a playground, picnic shelter. The City Hall (also known as the "501 Building") also provides public services, city offices, and the location for a central command center in times of emergencies.

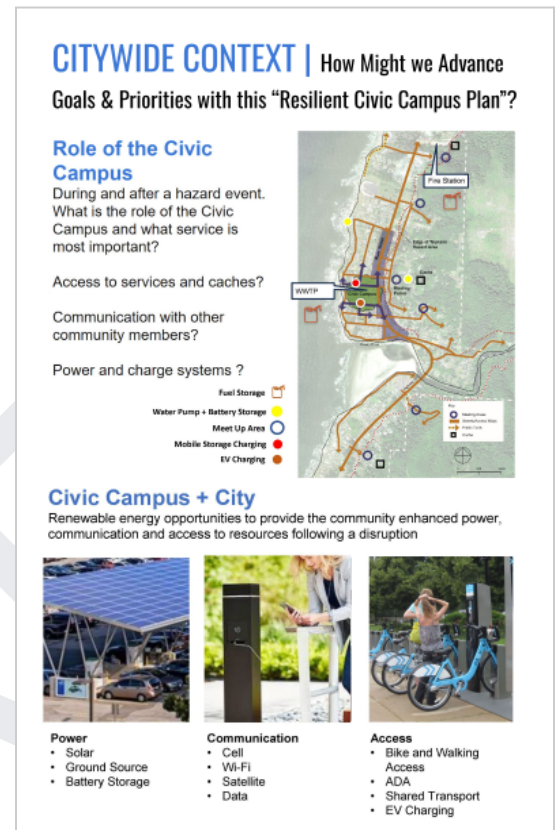


Resiliency Response: Increasing Access, Power & Communications

Yachats is vulnerable to natural disasters and severe weather events causing power outages. Adding renewable power in the Civic Campus was identified as an important opportunity to increase access to durable power and back-up batteries, increase spaces for shelter and refuge that can serve a greater population and improve services and amenities the community needs on a day to day basis. Because of its central location, the Civic Campus is well suited to increase awareness and access to emergency response and preparedness information, provide access to reliable power for device charging and communications, and safe accessible locations to connect with local disaster responders in case of hazards and other emergencies such as powerful storms, fires, and mudslides.

Refuge and Emergency Response

The Commons, the Presbyterian Church, City Hall and Library are already designated as spaces for refuge and shelter in times of need. The Park Pavilion, although not fully enclosed, can also provide additional support for refuge. The Commons and the Wastewater Treatment Plant are both served by backup diesel-fired generators.



Yachats Hazards and Emergency Response Needs

The Emergency Preparedness Committee has been grappling with the existential Cascadia Seismic event to locate powered emergency supply caches above Highway 101. They are anticipating how to recover from a 1,500 year seismic event that would produce a 9 + magnitude earthquake followed 15 minutes later by a large tsunami which would wash up approximately 30' above Highway 101 along 6th Street. More recently, the adoption of the City of Yachats Addendum to the Lincoln County Multi-Jurisdictional Natural Hazard Mitigation Plan (NHMP) on January 25, 2021. This represents a five year plan to address hazard events through December 2025.

This plan was developed by the City of Yachats NHMP Steering Committee (2020). This plan elevates Top Tier Hazards ranked in the following order.

Table YA-2 Hazard Analysis Matrix – City of Yachats

Hazard	Maximum				Total Threat Score	Hazard Rank	Hazard Tiers
	History	Vulnerability	Threat	Probability			
Drought	20	50	100	70	240	#1	Top Tier
Windstorm	20	50	100	70	240	#1	
Landslide	20	40	100	70	230	#3	
Winter Storm (Snow/Ice)	18	40	100	70	228	#4	
Earthquake (Cascadia)	10	50	100	49	209	#5	
Tsunami (Local)	2	50	100	49	201	#6	Middle Tier
Flood (Riverine)	20	35	50	70	175	#7	
Wildfire	10	35	70	56	171	#8	
Flood (Coastal)	20	25	50	70	165	#9	
Coastal Erosion	20	15	50	49	134	#10	Bottom Tier
Earthquake (Crustal)	10	20	40	42	112	#11	
Tornado	8	10	30	56	104	#12	
Tsunami (Distant)	10	15	30	35	90	#13	
Volcanic Events	2	5	40	7	54	#14	

Source: City of Yachats NHMP Steering Committee (2020)

Image: Hazard Matrix. City of Yachats Addendum to the Lincoln County Multi-Jurisdictional Natural Hazard Mitigation Plan, adopted on January 25, 2021. [Volume-II---Yachats-Addendum-PDF \(lincoln.or.us\)](#)

Due to climate change, increasing severity and more frequent hazard events periodically disrupt access, communication, and power in various parts of the Western United States. Most frequent hazards involving power outages in and around Yachats are anticipated to include:

- Drought and Fire Induced Power Outages
- Windstorm Induced Power Outages
- Landslide Induced Power Outages

These disruptions have been determined to involve increasingly longer outages to power. It is important to note, that because the City is connected to the larger electrical grid with a single power line, events outside the Yachats region can result in extended power outage to the community. This planning process assumes that there may be up to a three month power outage for a variety of reasons. Further, it has been acknowledged that in the event of a serious extended power outage, it is likely that Yachats would regain electrical service only after the larger cities in the utility service area are operational.

Facilities in the Civic Campus provide a refuge:

1. **from anticipated seismic** event frequency within 425 to 525 years up to a Cascadia magnitude 8.9 earthquake.
2. **from anticipated landslides.**
3. **from fire.**
4. **with emergency power as** provided currently in both the Commons and the Wastewater Treatment Plant. Reliability of these facilities can be improved with photovoltaic panels, battery storage, and increase in fuel storage.

(See Appendix C. Community & Project Parameters, Hazard section for additional information.)

Community Involvement

Public Outreach & Community Involvement Methods

The process to engage the Yachats community included extensive outreach efforts. Most significant among these were three large public meetings (one workshop and two open houses) as further indicated in the poster images below (next page). Outreach also included creation of a project webpage hosted on the city site, press releases distributed on the project webpage and to news outlets, local news articles, fliers and posters distributed at local businesses and bulletin boards as well as social media, and a community visioning and priorities survey. Prior to each public meeting and afterwards, a press release with a summary of the meeting key takeaways was posted on the City's website, shared with the local newspaper, over social media, and via City News Alerts which has a 100-person subscriber list. After each public meeting digital presentations were linked on the City's website and shared with the community and project stakeholder groups.

Stakeholder Engagement

Two project-specific stakeholder groups were assembled in addition to the design and planning team. Roles and responsibilities of each are listed below.

- **Project Management Work Group**
City Manager, Grant Manager, City Clerk, and two Planning Commissioners. Role: Collaboration on project planning, advising on project approach, stakeholder engagement, outreach, and related planning processes.
- **Stakeholder Advisory Group**
Role: Provide feedback on public engagement, stakeholder priorities, related projects and opportunities within their sphere of influence.
- **Planning & Engineering Consulting Team**
Roles: Provide technical facility assessments, site and technology analysis, hazard evaluation, design opportunities and constraints and public engagement to develop local goals, priorities, and decision-making criteria

Equity & Transparency

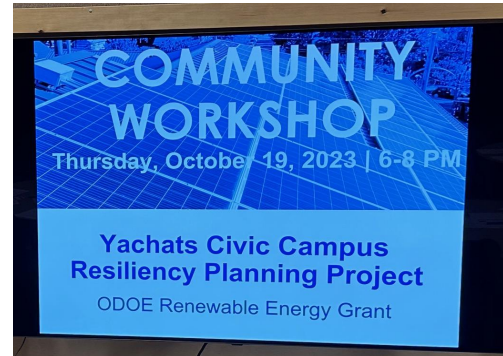
To ensure equity was a focus, the public involvement process included a Relational Accountability Process (RAP) tool that provides a method for assessment, transparency and accountability in project values, goals and actions that advance equity, diversity, and inclusion. A RAP assessment was conducted at the beginning, middle and end of the planning process to refine methods and outreach. This process expanded stakeholder engagement with community liaisons to harder to reach populations, and expanded outreach methods, engagement venues, and media formats to increase accessibility of elders, youth, tribes families, employees and employers, rural residents and visitors.



Community Engagement Events

Public Workshop 1

On October 19, 2023, over 30 people gathered at the Commons to consider how renewable energy and other power improvements at the Civic Campus can help the City respond to hazard events and enhance day-to-day use. Attendees identified where and how the civic campus connects to places across the City to improve resiliency for the larger community and to support durable power, communication and access to services. During the workshop, the project team identified the key hazards and the organizations that were addressing them.



Key goals for renewable power and storage included:

- Reduce power interruptions
- Create a refuge during prolonged hazard events with power outages,
- Strengthen water storage and filtration at the campus and citywide,
- Improve communications for every day and emergency uses, and increased access to durable power
- Reduce diesel and gasoline use during a hazard event, and
- Serve as a demonstration hub for renewable energy and sustainability strategies.



Attendees suggested that the City might address strategies for

- Wind power demonstration
- Alternative fuels such as biodiesel
- Water capture, storage and filtration
- Stormwater management and greenspace preservation
- Enhanced wayfinding and signage that can help in emergency response
- Opportunities to support local businesses and grocery stores with adequate mobile power for emergency refrigeration of food during power outages.



The identification of diverse resiliency approaches for food, water, hygiene, refuge, communication, and accessibility helped inform bigger picture thinking for citywide approaches that the buildings, services and planning in the campus could align with. See table on page 48 provides a snapshot of Resiliency Approaches that address basic needs, possible locations, and their value to enhanced resiliency.

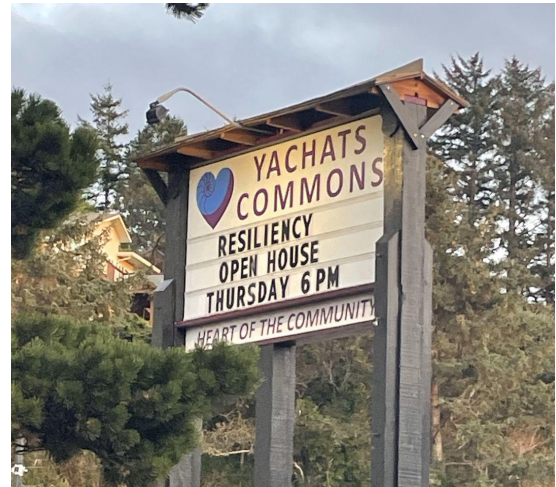
Open House 1

On November 16, 2024, the City hosted an in-person Open House at the Commons providing community members with a digital presentation on the project, including an overview, summary of technical assessments of the buildings, key goals and priorities heard from workshops and other stakeholders, and summary of candidate project designs for including renewable energy and enhanced resiliency. The presentation was followed by a robust group discussion and participants were given the opportunity to visit information stations to give feedback and discuss with project staff.

The Open house included extensive visual display posters highlighting the vision and goals, draft decision-making criteria, and other stations focused on hazards, project resiliency, design concepts and technical facility assessment results. All presentations were put on the City website and presentation boards were placed on display in the City Hall and Commons buildings.

There was strong support for the Campus being an eco-demonstration hub that would be a draw for both visitors and residents that align with the City mission. It was valued that the demonstration of sustainability features would visually also help communicate that the Civic Campus was the place for refuge and response following an emergency or hazard event. Interpretive signage that could also help with education around sustainability and wayfinding for emergencies was also seen as a value, especially if it could also leverage and expand awareness of Yachats history, foster sensitivity and understanding of indigenous communities past and present. It was also noted that expanded resiliency and new solar facilities could support enhanced economic vitality for spaces to host events, draw tourism, and broaden awareness of natural resources such as trails, fishing, wildlife, and local attractions.

Community members expressed support for connecting resiliency efforts both on the civic campus and citywide to include emergency caches, South of Bridge resident needs, the fire station, meeting points, fuel storage for generators, and leveraging grant resources for capital improvements like the new library where possible. Based on this workshop the planning process began to develop criteria to organize decision-making, priorities and goals for design and locating of Civic campus facilities. The process also considered improved overall urban design goals to support better function and a more integrated approach to facilities planning based on the criteria that began to emerge.



Feedback during and after the Open House was very positive and there were frequent statements that the meaning and purpose of the project in the general population's mind has shifted from initial uncertainty and skepticism to excitement and optimism. There seemed to be a growing acknowledgement that the improvements to the Civic Campus give the opportunity to serve everyone in the community prior to, during, and after a hazard event and to think both about and prepare and plan for a diversity of emergency response events as well as day-to-day improvements. City staff noted that residents had begun thinking more about what the Civic Campus role in the community should be, and how communities participate and benefit.

Open House 2

On December 14, 2023, the City of Yachats hosted a two-hour Open House online with attendees on Zoom and in-person at the Civic Campus to accommodate those that had difficulty with remote attendance. The meeting was widely promoted via City alerts, posters, social media, and on the City's project webpage. During the Open House the consulting team gave a brief overview of the ODOE grant project, scope and process, and an update on goals, priorities, and other comments heard to date from the Advisory Group, the Public Workshop and In-Person Open House, and summary of the online Vision & Priorities Survey.

The project team presented takeaways on their technical research, decision-making criteria, and project concepts. Detailed summary of benefits and tradeoffs were shared for each project concept including cost, maintenance, resiliency, and power generation, and social, economic and cultural benefits. Analysis of key criteria of where the Civic Campus has gaps in resiliency that could be addressed, best opportunities for refuge, and least cost for establishing foundational resiliency infrastructure were key factors in identifying the top project candidates:

- City Hall and Commons Rooftop Solar (Proposed Project 1)
- "Barn" Solar Canopy - stand-alone pavillion behind Commons (Proposed Project 2 Option)
- Parking Solar Canopy - between City Hall & Commons (Proposed Project 2 Option)

During the event, attendees were given time to discuss and ask questions about project alternatives, and an online poll was hosted for zoom participants, with paper options for in-person attendees. The poll asked participants to evaluate five questions related to reflections on the survey vision and goals, preliminary data, priority first projects, subsequent renewable energy improvements, amenities and implementation. See the summary of poll responses In Appendix G which reflects the poll results and priorities of the Open House participants. Notably, participants strongly agreed that "Rooftop solar on Commons & City Hall" was the priority project to recommend (based on the engineering, resiliency, and budget constraints) for a next 2024 ODOE Construction Grant project.

(See Appendix G. Public Engagement for details on the OpenHouse and tabulation of poll results)

Community Vision & Needs Survey

An online survey was used to gather additional input on the community's vision and goals, emergency response needs and priorities, and opportunities for improvements that might be leveraged within the Civic Campus and surrounding areas as part of the planning for the project. The online survey was widely promoted with the community through the City of Yachats project webpage, with notices

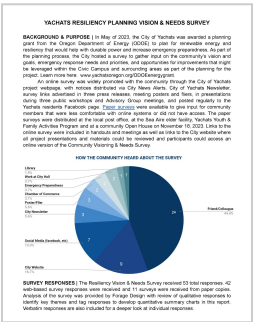
distributed via City News Alerts, City of Yachats Newsletter, survey links advertised in three press releases, meeting posters and fliers, in presentations during three public workshops and Advisory Group meetings, and posted regularly to the Yachats residents Facebook page. To expand the reach of participants, [paper surveys](#) were also distributed at key venues to give input for community members that were less comfortable with online systems or did not have access.

The survey received 53 total responses including 42 web-based responses and 11 surveys received from paper copies. Analysis of the survey was provided by Forage Design + Planning with review of qualitative responses to identify key themes and tag responses to develop quantitative summary charts in this report. Verbatim responses are also included for a deeper look at individual responses. A final summary report is intended to be posted on the city of Yachats project webpage.

Survey input informs creation of a community based resiliency vision statement to complement the preliminary energy vision in the project planning. The survey results align well with the project goals heard in the community engagement workshops and open houses and emergency priorities. These included meeting essential emergency energy resilience and recovery needs for hazard response including shelter, hygiene, power for hot water, cooking and refrigeration, drinking water storage and filtration, refrigeration and storage of medical supplies, charging of personal devices and vehicles, safe meeting places and communication about hazard response updates including where to go and what to do to stay safe and how to help. Other shared goals for the Civic Campus included serving as a demonstration hub for sustainability and renewable energy with interpretive information that could help orient locals and visitors to the innovation elements, cultural history and emergency wayfinding, becoming a model for other coastal cities, and increasing awareness of emergency response actions before, during and after an event. Communication needs were a priority especially adding diversity of modes for radios, satellite phones, and digital alerts with the City Hall already as a command center for events. Although power outages were not lengthy generally, respondents noted they would rely on the Civic Campus for power especially in cases where outages were more extensive for charging devices especially for communication and medical purposes, and in extreme weather events for cooling or warmth. The majority of respondents were elderly which aligns with area demographics and this population is more vulnerable to heat and cold events.

Respondents expressed goals for resiliency that could support other Citywide efforts including residents that were not near the downtown, including the Fire Station as a possible location for fuel storage, and mobile batteries for dispersing back-up power such as for grocery stores. It also affirmed community priorities for subsequent planning and energy projects including solar on the library, public bathrooms and water capture and filtration (e.g cisterns), more planning needed to address South of Bridge resident emergency needs as well as emergency response Caches, emergency signage in the campus and night sky protected lighting of trailheads for wayfinding, more education and ongoing hazard response and preparedness training.

[**View the 13-page Survey Summary with analysis
by themes and narrative responses**](#)



IV. RESILIENCY ASSESSMENT: SITE FRAMEWORK & ENERGY USE

Site Framework & Energy Assessment

The Civic Campus Site Framework is a tool to understand the elements of sustainability, resilience, social activities, its edges, and its relationship to the commercial core of the City. It helps to guide the location of projects that support economic and social objectives that support resilience in the City and more specifically in the Civic Campus. See *Appendix C Final: 2.2 Community and Project Parameters*.

Building on the Existing Hazard Response Systems

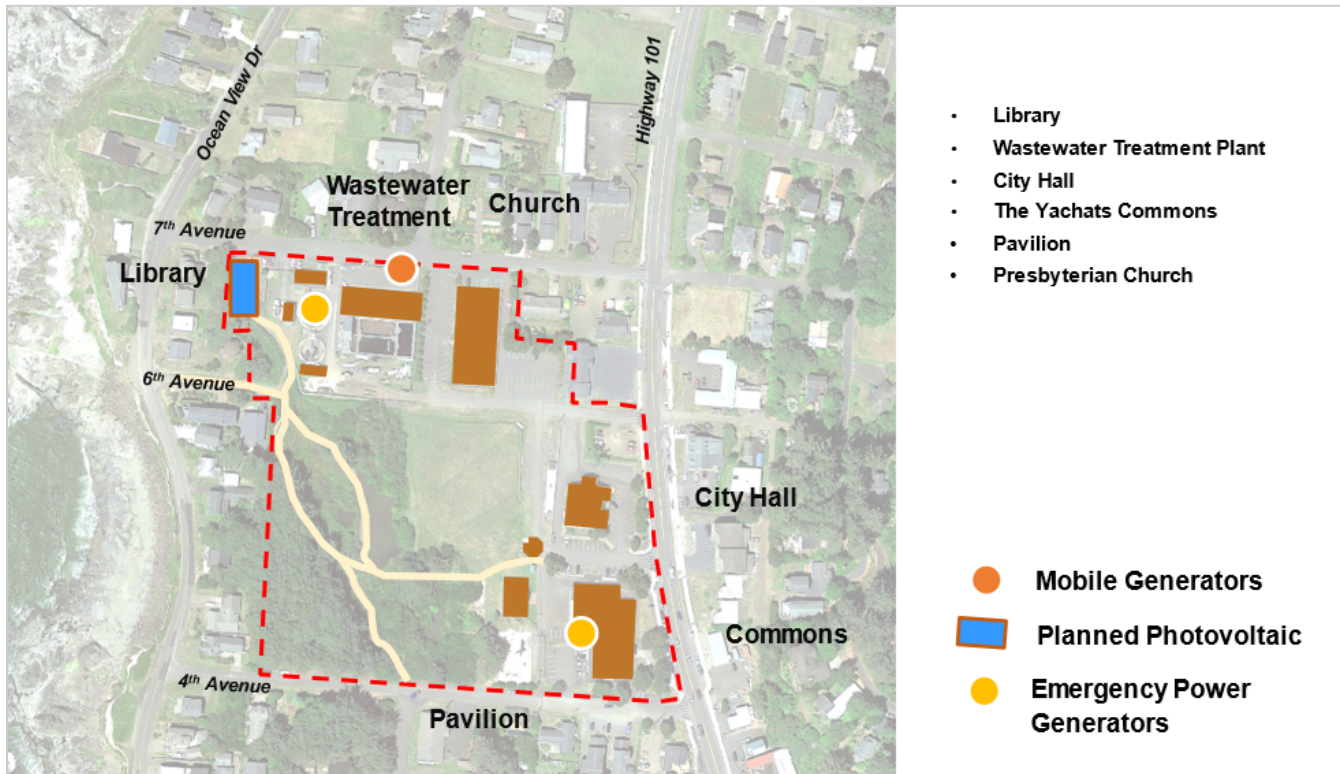
The Civic Campus has many existing and planned elements that can respond to hazard events and mitigate the impact of power disruptions. The Civic Campus Site Framework is the underpinning of a tool to understand the elements of sustainability, resilience, social activities, its functional organization, and its relationship to the commercial core of the City. It helps to guide the location of projects that support economic and social objectives that support resilience in the City and more specifically in the Civic Campus.

The Library, Wastewater Treatment Plant (WWTP) and Presbyterian Church are located on the north side of the campus between 6th and 7th Streets. A 255 kW stationary diesel generator is installed at the WWTP and that provides emergency power to the plant. It is significantly oversized given the documented peak demand for the plant of about 80 kW. Also stored at the plant are mobile generators that are used to provide emergency power to water pumps and wastewater lift stations during a power outage. With the hazard response equipment housed at the plant, this area has the greatest current flexibility to respond and support power generation during a hazard event.

The City Hall, Commons, and Pavilion are located on the south and east of the campus between La De Da Lane and Highway 101. A 30 kW stationary diesel generator is installed to provide emergency power to selected loads/needs in the Commons building.

Strengthening Sustainability

Improvements to the campus should respond to the location and configuration of site features to enhance the sustainability of energy and water resources, and stormwater flows through the site. Sustainable energy and water sources are fully consistent with a resilient Civic Campus. Thoughtful organization of landscape and building improvements can not only create these resources but can also make better outdoor spaces that serve an economic or social function and can be used as a refuge or emergency response staging area.

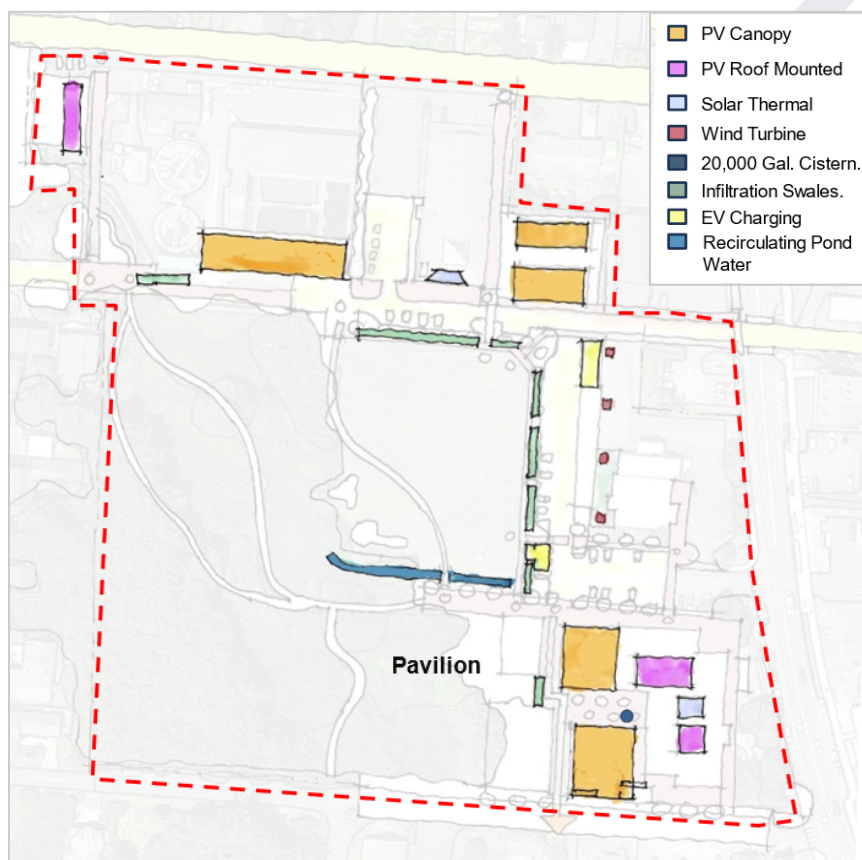


The Civic Campus contains critical social and governmental functions in the City. It uses diesel fueled emergency power generators to operate water infrastructure and serves as a command center in a hazard event.

Solar Photovoltaic Systems. Many areas of the site have excellent unshaded solar resource. Solar photovoltaic panels can be strategically placed in these areas, including building roofs, over parking lots and the paved area to the west of the Commons where covered outdoor activity areas might benefit, and in the south yard of the WWTP. When appropriately coupled with site and building electrical system improvements, electricity generated from solar installations will provide a sustainable, durable, and increasingly cost-competitive source of energy for the Civic Campus. The potential energy generation capacity of available solar photovoltaic locations within the Civic Campus is theoretically sufficient to balance all of the electricity used by the campus over the course of a year. The available solar resource in Yachats means that Civic Campus solar systems would not generate enough electricity in the winter to meet the campus demands but would generate extra electricity in the summer that would be exported onto the regional grid. This is referred to as “net zero energy” performance and does require net metering coordination with the local utility. Central Lincoln Public Utility District currently supports net metering arrangements for solar systems up to 200 kW in capacity on each individual meter. This is significant enough to undertake several solar projects within the framework outlined in this plan.

Solar Thermal Systems. Several building rooftops can accommodate south-facing solar thermal panel installations. Both the Commons and the Presbyterian Church have kitchen domestic hot water loads that could be augmented by production of solar hot water. Due to the relative complexity and limited resource contribution within the Civic Campus, solar thermal systems have not been included in near-term project planning but could be considered as future Civic Campus projects are identified within its sustainable development framework.

Small Scale Wind Turbines. The campus also has demonstrated wind resource that while not reaching utility-scale is sufficient to generate renewable electricity throughout the year. Small scale wind turbines are available in capacities from 1 kW to 50 kW, and in both horizontal axis (propellers) and vertical axis configurations. Vertical axis turbines tend to exhibit both reduced ambient noise and reduced wildlife casualties. Indeed, Yachats has a local connection to a company that is currently involved in research and development of vertical axis turbine technology. Due to both cost and wind resource limitations, today's small scale turbines are not cost competitive with solar photovoltaics as a primary source of sustainable energy. However, wind turbines are a dynamic and visible symbol of sustainability, and actually generate more electricity in winter months than a similarly sized solar system. On an annual basis, wind turbines are anticipated to generate about 60% of the electricity that would be generated by a similar sized solar system, and at current costs would be over four times more expensive per kWh generated. Integration of small scale wind turbines within the Civic Campus should be considered within its sustainable development framework, though initially as demonstration technology.



Stormwater Management can use swales to treat water from impervious areas and divert it away from pervious areas that can be damaged such as the large green space turf area.

Image: Sustainability System Concepts for Integrating Renewable Energy & Water Management Strategies.
Illustration by Green Urban Design. Improvements that support energy and water management can be combined with other projects and can reduce operational cost and transform the visitor experience on the site.

Rainwater Reuse. Stormwater Rainwater runoff can be collected from roofs, stored, filtered, disinfected, and reused as a potable water source both for “normal” operation and for emergencies. Yachats typically receives over 60 inches of annual rainfall although it does experience a dry season from the end of June until mid-September. If rainwater were collected from 6,000 sq.ft. of the roof area, and stored in a 20,000 gallon cistern, this could function as a sustainable source of water that would meet the current month by month needs of the Commons building including through the dry season. In addition, the cistern could be an attractive, visible landscape element that provides water from roof areas around the commons could be a potable water source during a sustained hazard event.

Solar Thermal arrays and Wind Turbines lack efficiency in generating power and energy are limited by the site's location on the beach. While they could be demonstration projects, they have a low cost to benefit.

The Pond is a potential resource that could provide a source of water for enhanced fire protection on the Civic Campus to fight fires during a drought. It is currently an amenity on the site. It needs to have regular maintenance to root out invasive species, improve storage capacity and recirculate the water during drought, it can exhibit overall improved water quality and as an amenity on the site and play a larger role within Civic Campus sustainable development framework..

Landscape Enhancements for Wind Protection. While wind does represent a potential sustainable energy resource, excessive wind also creates undesirable comfort conditions in the current and potential future outdoor activity areas. Planting of trees and shrubs in key areas to protect outdoor these areas from wind would improve use of the outdoor spaces around the Civic Campus. Additionally, as new buildings and structures are designed, predominant north-south wind directions should be considered so that the structures themselves offer a degree of protection from winds.

Strengthening Resilience

Both functionally and geographically, the Civic Campus facility organization suggests “edges” – a north edge that includes the library, wastewater treatment plant, and the Presbyterian church and a southeast edge that includes the City Hall, Commons and Pavilion. The location and organization of the Civic Campus logically serves as a center of the emergency planning and hazard event recovery for the City. The Civic Campus is the center of government, and a foundation for vibrant social life within the community.

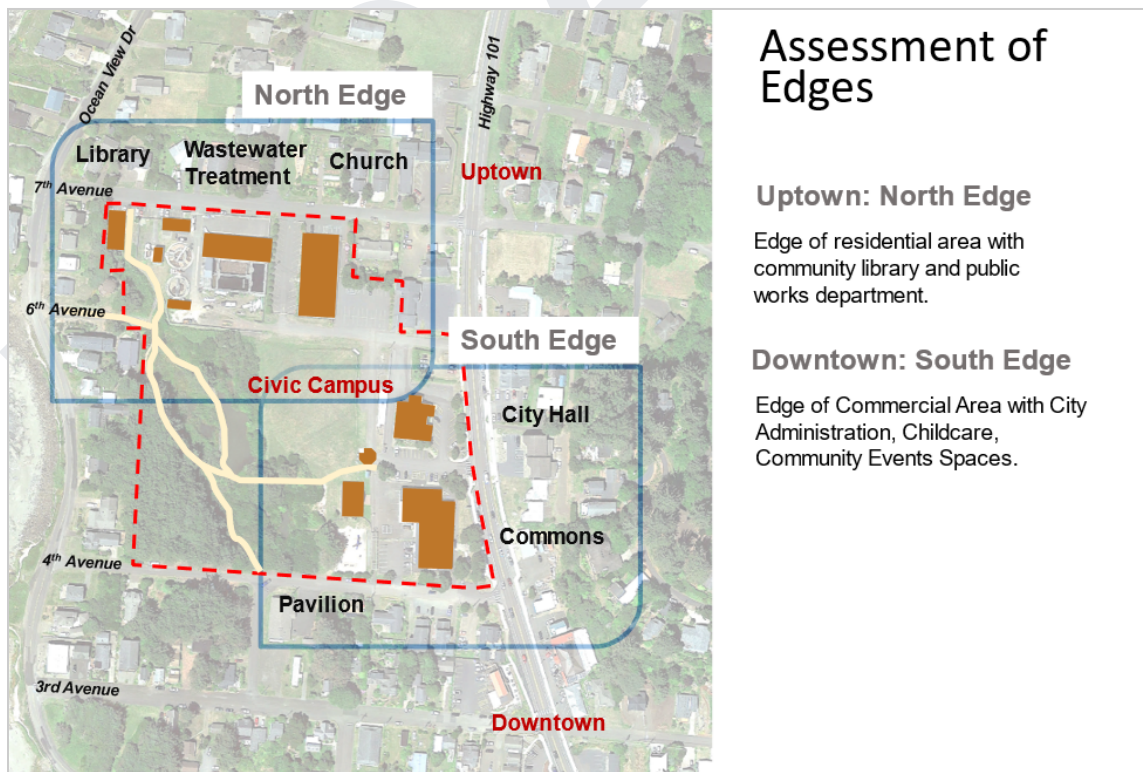


Image: Assessment of Civic Campus Edges & Site Context. Illustration by Green Urban Design.
The edges of the Civic Campus can complement and supplement the residential and commercial areas they border.

Events and activities in the Commons are complementary to the adjacent commercial district which is the economic engine of the City. The “urban planning” opportunity is to plan projects for the campus that activate and invigorate adjacent neighborhoods as well as enhance current and future uses of these neighborhoods and the Civic campus itself. Resilience, in this sense, couples the idea of enhancing social cohesion and economic sustainability while creating a command center and refuge for community members following a hazard event.

North Edge. The North Edge is an area with residential, cultural, and business activities but has the experience of a more residential character, albeit with an industrial process facility in its center. The facilities that make up the North Edge are all-electric facilities that are reasonably efficient when compared to similar types of facilities in similar climates. There are energy use reduction opportunities but primarily in the privately owned church. The table below summarizes the energy use characteristics of the North Edge.

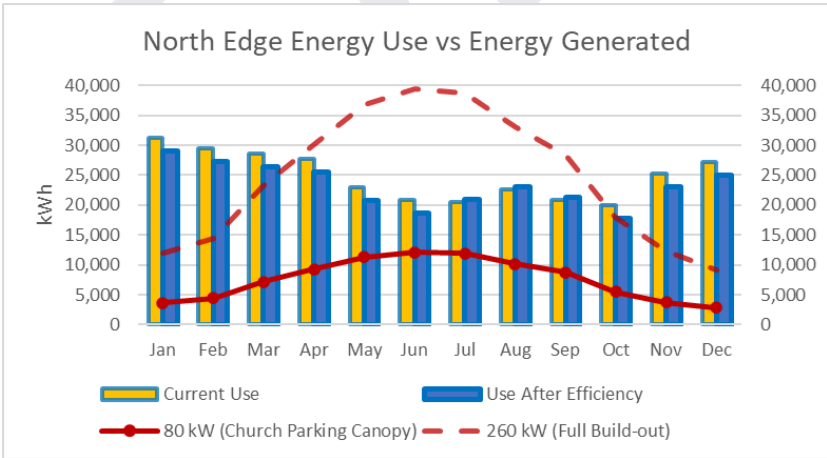
For more detailed facility assessment information including energy use, please see Appendix A: Audit Facilities in Civic Campus.

Facility	Area, SF	Current Annual Energy Use			% Better than Median	% Savings Potential	Future Annual Energy Use		
		Electricity, kWh	Other, MMBtu	EUI, kBtu/SF-yr			Electricity, kWh	Other, MMBtu	EUI, kBtu/SF-yr
Library	3,600	17,941	-	14.2	69%	7%	16,637	-	15.8
WWTP/Public Works	8,500	223,800	-	89.9	n/a	0%	223,800	-	89.8
Church	12,000	55,420	-	15.8	37%	31%	38,401	-	10.9
Total, North Edge	24,100	297,161	-	42.07		6%	278,837	-	39.5

EUI=Energy Use Intensity; MMBtu=Millions of British Thermal Units; SF=Square Feet; kWh-kilowatt hours

Key existing resilience-related features of the North Edge can be characterized as follows.

1. It has the most emergency power generation potential which includes a 250 kW diesel emergency generator that is significantly oversized for the WWTP needs and could conceivably provide power to all of the buildings in the Civic Campus.
2. It houses numerous mobile generators used by Public Works during a power outage to keep sewer and water system pump stations operational.
3. It has easy access up 6th and 7th Street up to tsunami refuge areas.
4. It is mostly flanked by residential uses along its edge.



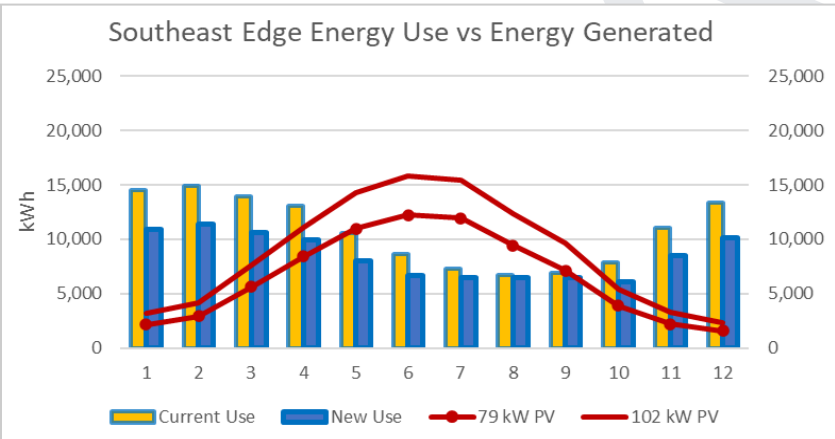
The monthly energy profile of aggregate building energy use for the North Edge is generally consistent throughout the year due to the high energy intensity of the WWTP, which is the dominant load and is consistent on a monthly basis. A full build-out scenario for a potential solar system would be represented by a 260 kW system that could generate all the power that is needed throughout the year.

Southeast Edge. The Southeast Edge is an area with government, commercial, and shared community functions. It is supplemental to tourism due to the many community events that are held in this area that are attractive to visitors. The facilities that make up the Southeast Edge are essentially all-electric facilities. A small amount of propane is used for cooking in the Commons. The facilities are reasonably efficient when compared to similar types of facilities in similar climates, but there are significant energy use reduction opportunities in both the Commons and City Hall. The table below summarizes the energy use characteristics of the Southeast Edge.

For more detailed facility assessment information including energy use, please see Appendix A Final: 2.4 Audit Facilities in Civic Campus.

Key existing resilience-related features of the Southeast Edge can be characterized as follows.

- 1. It has the limited emergency power generation potential which includes a 30kW emergency generator that provides emergency power to the Commons building but is unable to meet the needs of the Southeast Edge in an extended power outage.
- 2. Access to the tsunami refuge area is north along La De Da Lane and Highway 101 to 6th and 7th streets which lead to assembly areas up the hill.
- 3. It is flanked by commercial uses on 4th Street and Highway 101.
- 4. Seasonal outdoor markets are located on 4th Street within this edge.
- 5. This edge of the site has high demand for toilets and visitor information during community and business activities on the site.



The monthly energy profile of aggregate building energy use for the City Hall, Commons, and Pavilion has a peak energy use in the winter. A 79 kW solar system (considered as a priority project) could generate about ¾ of the power that is needed throughout the year. A 102 kW solar system could generate all of the power required throughout the year.

In either option, there is limited capacity to collect solar energy during the winter. If there was an extended power outage at this time, the 30 kW generator would be required to generate additional power.

Resilience Projects

Resilience, as considered within this plan, emphasizes both hazard event response and socio-economic enhancements. Potential projects at the Civic Campus that make better connections and improve outdoor settings contribute to improved resilience in both aspects. The context and potential of those “better connections” defines the site framework structure that is essential to this plan. Project opportunities that work within this framework are discussed below for both the North and

Southeast edges.

North Edge Project Opportunities

The North edge has the potential to improve connections to tsunami assembly areas, improve 6th Street as a desirable pedestrian connection, and improve access to the existing library. The public spaces around the North edge are not optimally supportive of the activities that spill outside from the library and the church. Poorly identified parking locations on 6th Street, a discontinuous 6th Street, and the use of parking areas for assembly contribute to limiting the activities that can safely occur in the area. Improvements that separate vehicle movements and pedestrian movements would contribute to a safer and potentially more active environment. While the emphasis on potential projects that rely on this plan is primarily about electrical energy and related resources, the site framework defined herein suggests that opportunities such as those listed below be integrated into resilience projects.

Improvements that would tend to activate 6th Street include:

1. Creating a multi-modal connection between La De Da Lane and Ocean View Road that is pedestrian and bike oriented but does not preclude vehicle access such as does a [Woonerf](#).
2. Improving access to yard waste recycling that is complementary to the housing pods in the Church Parking Lot.
3. Separating vehicle movements and pedestrian movements would contribute to a safer environment such as organizing parking and pedestrian access along 6th Street.

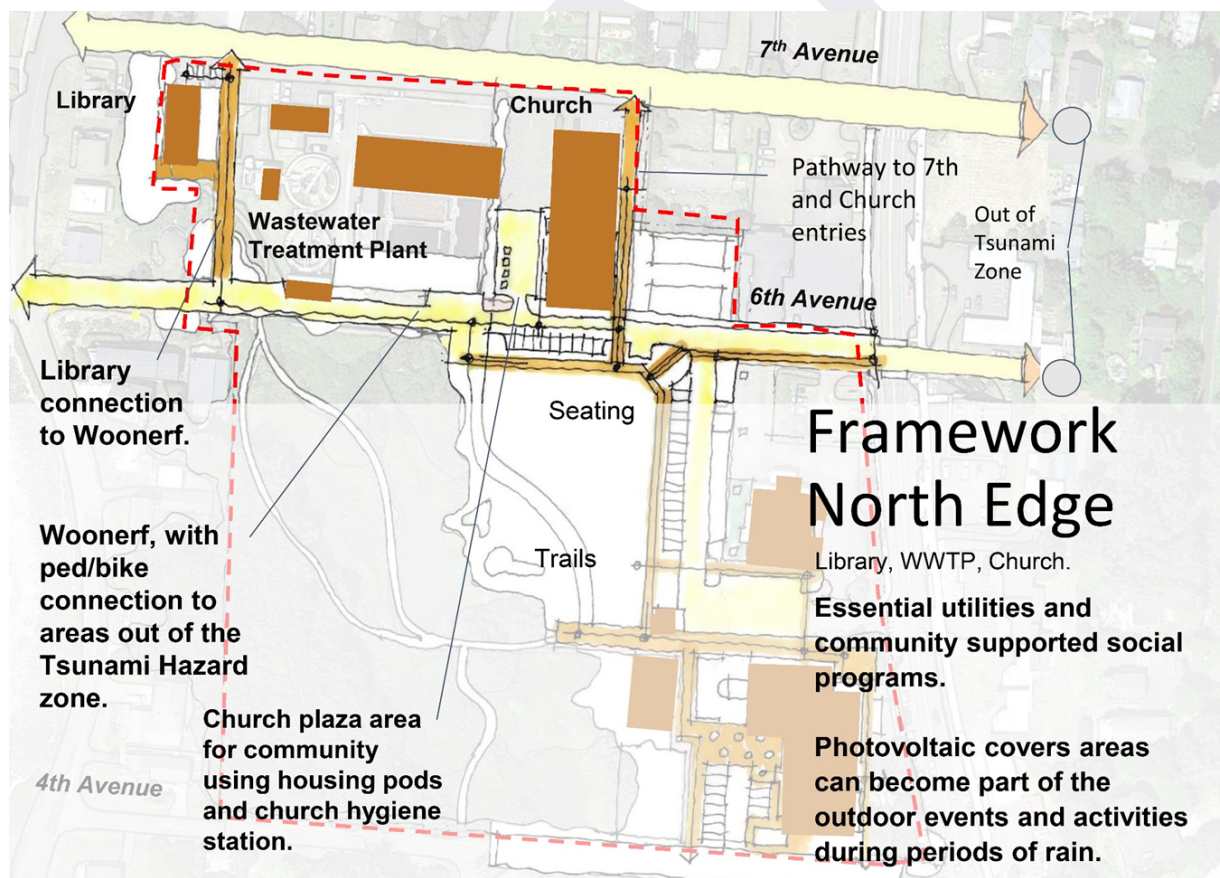


Image: North Edge Framework. Illustration by Green Urban Design.

As renewable projects are installed, they can improve access and the settings that help to connect the Library and the Church to the Civic Campus and use the open spaces more effectively.

Southeast Edge Project Opportunities

The Southeast edge has the potential to improve the public spaces around the buildings to provide better spaces and amenities for outdoor events and activities. The public spaces within the Southeast edge connect the City Hall, Commons, and Pavilion. The focus of these spaces is La De Da Lane as it traverses the front of the Pavilion on the west side of the Commons. It is level and in good condition. La De Da Lane also has an EV charging station at the foot of 5th Street, a skate park, and children's play areas. Again while the emphasis on potential projects that rely on this plan is primarily about electrical energy and related resources, the site framework defined herein suggests that opportunities such as those listed below be integrated into resilience projects.

Improvements that would tend to activate La De Da Lane include:

1. Improving the east-west connector along the north edge of the Commons Building to better connect the Commons and Pavilion to the park space trail leading to the wetland area and Ocean View Lane.
2. Making a multi-modal connection along La De Da Lane between 5th and 6th Streets separating vehicles from pedestrian movements would make a safer environment by organizing parking and pedestrian access along La De Da Lane. It could be more pedestrian and bike oriented but not preclude vehicle access such as does a [Woonerf](#).
3. Repairing pavement on 5th Street and La De Da lane.
4. Improving La De Da Lane to better connect the North Edge to the Southeast Edge.
5. Incorporating community input collected in recent park survey responses.

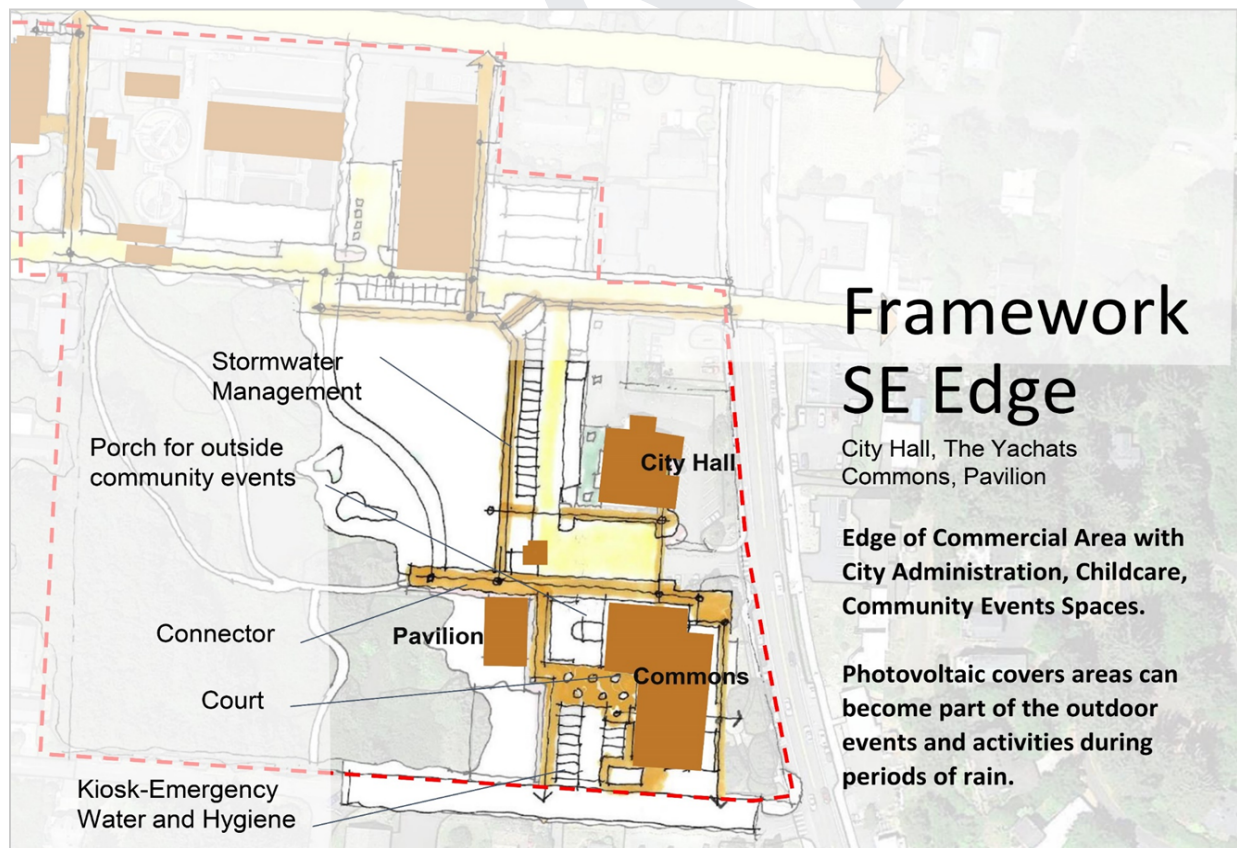


Image: SE Edge Framework. Illustration by Green Urban Design

As renewable projects are installed, they can improve access and the settings that help to connect the Library and Church to the Civic Campus, and use open spaces more effectively.

Connecting the North and Southeast Edges

As previously discussed, geography and function logically organize the Civic Campus into two edges. These edges have different roles within the Civic Campus but will ideally be better connected as future resilience projects are implemented. La De Da Lane is key to connecting the two edges. La De Da Lane provides the opportunity to organize campus uses along its length. There are three primary areas that are crucial to helping the Civic Campus to be better connected and serve social activities and economic development in the City as a whole.

1. **Street Edge** | The role of the Street Edge is as a multiple use event and parking space that can be used for either parking, market activities, Commons building activities, or other events associated with local businesses. It is currently an outdoor space that scores highly in supporting both economic and social components of resilience desired for the Civic Campus.
2. **Pavilion Plaza** | The role of the Pavilion Plaza is to provide a meeting space at the center of the Southeast edge.
3. **Park Edge** | The role of the Park Edge is to better organize the park and green space within the Civic campus and to create an attractive setting for activities within the park and on the edge.

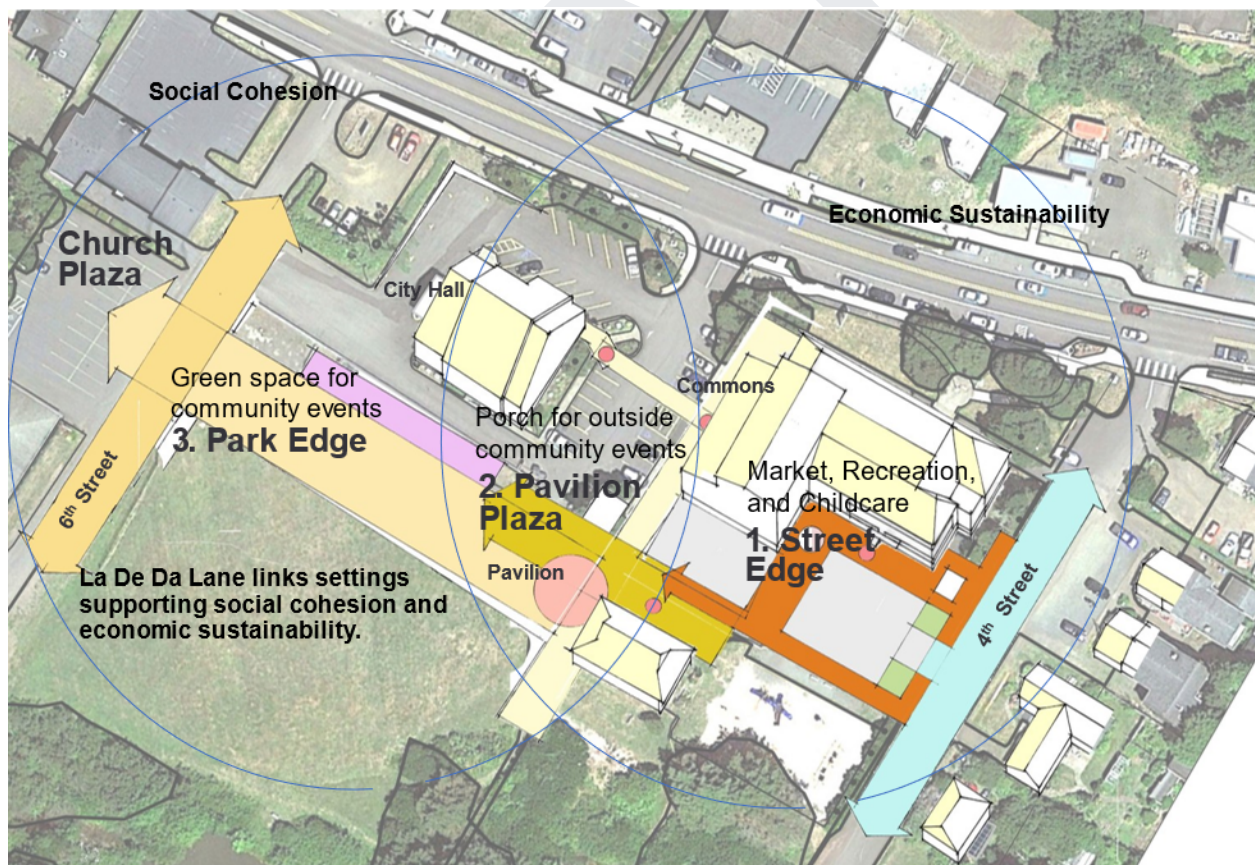


Image: Opportunities for Site Design Improvements that Connect Important Civic Campus Edges. Illustration by Green Urban Design. La De Da Lane has the potential to improve its service to the community as planned projects along its length are implemented.

Site Improvements

Currently, a number of needed site improvements have been identified. These include asphalt repairs, stormwater management improvement, site grading improvements, and enhanced wind protection to improve comfort and useability of outdoor spaces. These site improvements should be integrated into specific energy resilience projects where logical scope of work synergies exist. For example, many of these improvements can be undertaken when (and if) solar photovoltaic canopies are installed, as the installation of separate canopy structures will precipitate associated site work for foundations and other surface and underground modifications.

A number of priority non-energy site amenities have been identified within the outreach efforts undertaken to inform this plan. While not specifically energy related, these potential Civic Campus projects clearly resonate within the Yachats community and have a place within one or more of the primary areas identified above.



1. Street Edge

2. Pavilion Edge

3. Park Edge

La De Da Lane has the potential to connect spaces that have a different value and purpose in creating a civic space that improves resilience in the Civic Campus for the City.

- 1. Street Edge | Visitor Information Kiosks and Cisterns.** It is here where community ideas for a Kiosk serving visitor information from the chamber or nonprofit might be strategically located. Also, it is a strategic location for a cistern to collect rainwater. Due to the size of this area, there is ample space to site one or more standalone structures.
- 2. Pavilion Plaza | Restrooms, Monuments, Signage, Electric Charging.** The Pavilion Plaza is a preferred location to implement community ideas for bathrooms, historical and cultural monuments, and wayfinding signage. There is already an electric vehicle charging station here which suggests

the potential for expanding the charging infrastructure to include the capability for multiple device and equipment charging in the future.

3. **Park Edge | Circulation, Parking, Stormwater.** The current roadway along the park edge could be further developed to clarify circulation zones for people and vehicles with parking and stormwater management. By making these improvements, the usability of park green space will be improved because the sheet flow of stormwater would no longer over saturate the soil.

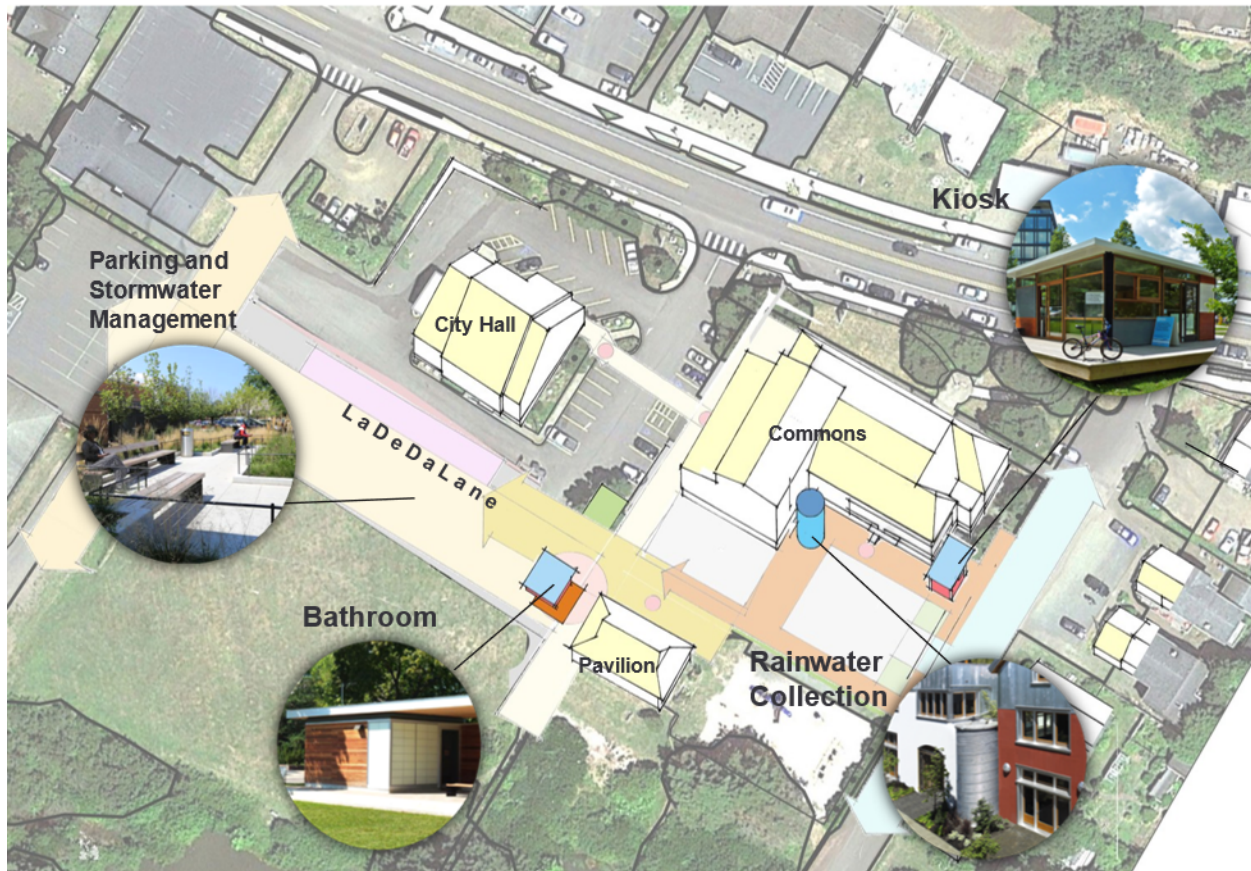


Image: Connecting Improvements Along a Central Spine. Illustration by Green Urban Design. La De Da Lane has 3 primary areas that can be improved overtime with subsequent investments that support the Civic Campus Resiliency Plan.

Selecting the Priority Southeast Edge

Of the two edges, the Southeast edge has the greatest near-term potential to increase resilience on the Civic Campus by adding renewable electricity generation and enhancing socio-economic character within the community. The Southeast edge contains the two critical civic buildings – both city-owned and controlled - that are the logical loci for refuge, shelter, and command required during and after a hazard event. Only one of the buildings – the Commons is equipped with back-up power capability. It is currently backed up by a 30 kW generator. In an extended outage keeping this generator fueled would be a problem, particularly if the power outage was accompanied by road closures and fuel shortages. The Southeast edge is also home to the greatest mix of activities that supports economic and social outcomes that contribute to resilience, and as discussed above offers numerous locations

for other resilience-related site and facility improvements to be implemented. Supplemental solar panels and batteries, along with strategic upgrades to the overall electrical system infrastructure would greatly enhance supply of durable power, reduce its cost, and minimize reliance on the diesel emergency generator.

While the North edge also possesses reliance needs and potential, the only critical; City-owned facility - the Wastewater Treatment Plant – is already equipped with a stationary back-up power system that can power the plant during most common power outage events. At the time of publishing of this plan, the future of the library in its North edge location is uncertain, and the ownership structure of the church may be in flux. The North edge will offer reliance project opportunities in the future particularly the potential associated with electrical interconnection between facilities within the edge. But for the reasons stated above, it is not the priority edge for near-term projects that will enhance Civic campus resilience.

As illustrated below, the Southeast edge is the focus for the definition and evaluation of potential priority projects that can satisfy the definition of successful grant-funding resilience and renewable energy projects that would be suitable for the next cycle of construction grant funding by ODOE.

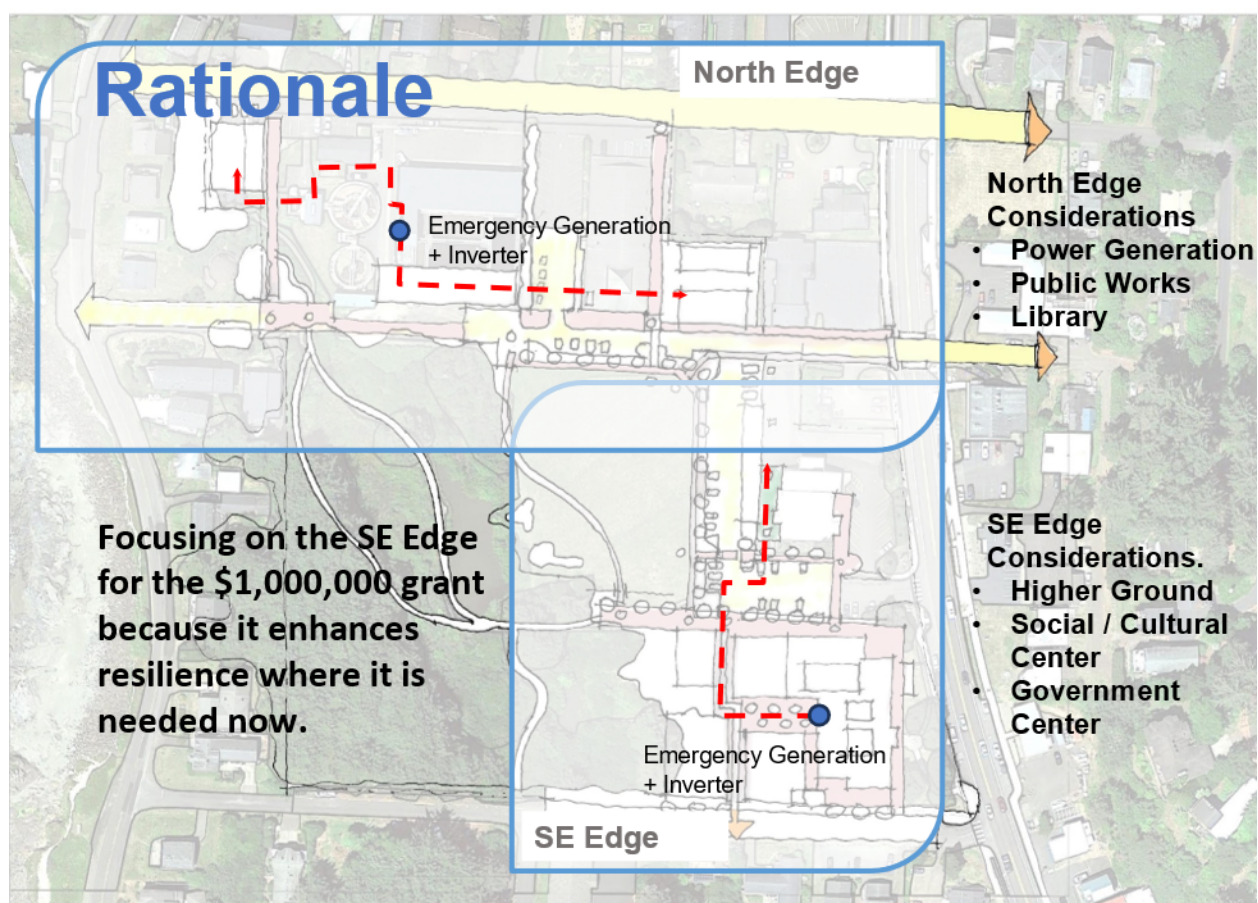


Image: Interconnection of Buildings. When the buildings on the Southeast Edge are connected with electrical infrastructure, it will improve the resilience to the services that lack such resilience.

An initial resilience project for the Southeast edge would start by interconnecting the electrical systems of the Commons, City Hall, and the Pavilion. This will create a core electrical “foundation” that

supports installation and integration of near-term solar system elements and additional solar system and potential wind turbine installation in the medium term future. In addition to added solar, a Southeast edge project should include necessary repair and rehabilitation to the existing back-up power system and investment in building energy efficiency opportunities that will reduce the need for electricity in the Southeast edge facilities.

The North edge currently has sufficient critical facility emergency power. Like the Southeast edge, there is also the potential to connect electrically to the nearby buildings to expand resilience on this edge of the Civic Campus. The addition of solar panels and battery storage is envisioned to further augment North edge resilience and ultimately create the logical location for charging of future City-owned electrical fleet vehicles.

The envisioned resilience enhancement within both edges of the Civic Campus has both implications and concept connections to Citywide resiliency issues and ideas such as those listed below.

- Augment portable generators/batteries for remote power serving pump stations, caches, and potentially individual citizens and other critical facilities.
- Expand fuel storage capacity at Fire Station and Wastewater Plant
- Establish an emergency power Cache south of the bridge with generator and food and fuel cache that provides power resources to that area and becomes a point of refuge in a Cascadia earthquake event or similar.

Site Renewable Resources

1. Solar resources in Yachats are comparable to other locations in Western Oregon - both on the coast and in the inland valleys. The Civic Campus site itself has numerous unshaded locations that will accommodate optimal solar installations, as well as a few modestly sub-optimal locations that will still generate meaningful electrical energy.
2. The site is also fairly windy, as would be expected on the Oregon Coast. However, the frequency of wind conditions that can generate meaningful energy via wind turbines is not ideal. Wind turbine installations of identical capacity to solar will generate about 25% of the energy generated by the solar panels.
3. Based on current technology, solar is a preferred and more cost effective renewable energy resource than wind at this site. However installation of an inverter system with the capability of interfacing with either wind or solar resources is recommended. This would allow the City to compare performance of different systems as new technologies are developed.

Future Civic Campus Microgrid

Developing a micro grid at the Civic Campus Scale is not currently feasible until such time as Central Lincoln Public Utility District is able to administer Microgrids within their operations. At that time, there are a number of potential benefits at multiple scales.

Below are the benefits of such a system at the scales of this plan where they can have the most benefit.

City Wide Scale: At some point in the future, it may be possible to interconnect all buildings and power sources on the Civic Campus with nearby buildings such that critical services such as the C&W

Market refrigeration equipment are able to prolong food storage during an outage using backup power resources that are located at other buildings.

Campus Scale: Currently there are backup generator facilities at the Commons Building and the Wastewater Treatment plant. Through a microgrid, these emergency power resources could be extended across the campus (connecting North and Southeast Edges) to nearby buildings adjacent to the Civic Campus during an extended power outage .

Building by Building: The interconnection of buildings in the North and Southeast edges accomplishes needed resilience goals without a microgrid, building on the current emergency backup configuration. However, implementation of a micro-grid in the near-term, if possible, would represent another technological way to accomplish this interconnection.

V. RESILIENT CIVIC CAMPUS PLAN

Plan

This plan incorporates a vision to make links between what can be accomplished in the Civic Campus to other areas of the City. These include hazard response services and improvements that support the economy and the everyday activities in the City. The vision is expressed in a series of goal statements that are reinforced with objectives, guidelines and supported by measurable criteria.

Vision

The plan vision is to supplement and complement the emergency management plan implementation by strengthening areas of the City such as the Civic Campus so it builds greater economic and community capacity to respond to hazard events. This includes establishing a network of resources such as caches, fuel storage and refuge areas that can be accessed in the immediate area. An important aspect of this vision is improving communication prior to, during, and after an emergency event.

The Vision established a role for the Civic Campus in the City. This role includes a central command center for training and responding to hazard events. It has activities at the heart of the resilience of the City because it serves to strengthen social and economic outcomes in the City that are crucial to supporting community resilience. This vision anticipates how the Civic Campus can play a key role anticipating preparing for, training for, and recovering from hazard events.

The plan is applied at Citywide, Civic Campus, and Building Scales to achieve the vision. Goals, objectives, guidelines, and criteria are plan requirements for any plan or physical improvement at each plan scale. A goal describes the outcome desired within the scale it is applied to promote resilience. The objective describes the actions that can be measured to achieve the goals. The guidelines are objective and qualitative standards which should be incorporated into the design of a project. The criteria highlights measurable outcomes that are key performance indicators in meeting the objectives.

The plan requirements are derived from community feedback as documented and interpreted by the planning team. They are intended to provide a method for identifying and evaluating potential resiliency investments which reinforces resilience in the City.

Citywide Scale Energy and Resiliency Criteria

The City plays an important role in providing services to the community inside the City and in surrounding unincorporated areas. As such, potential Citywide investments are considered to serve residents in unincorporated areas as well. It also is an important tourist destination which benefits the local economy and in turn helps support a sustainable community. Within this Resiliency Plan there are links between what can be accomplished in the Civic Campus to other areas of the City which includes hazard response services and improvements that support the economy and the everyday activities in the City.

Goals

1. Establish strategies that link projects in the Civic Campus that support synergies in projects in other areas of the City.
2. Create a model of sustainability and resilience on the Oregon Coast.
3. Connect critical water infrastructure power needs to emergency generation with fuel to support extended power outages.
4. Allocate resiliency related services and resources in an equitable manner on either side of the Yachats River.
5. Designate a central emergency response office in the Civic Campus to coordinate response to long-term hazards.

Objectives

- Create a central emergency response office in the Civic Campus that can coordinate distributed response to long-term hazards.
- Incorporate and expand use of alternative energy resources and technologies in appropriate locations throughout the City (e.g. solar, biodiesel, wind power, etc.)
- Develop the Civic Campus as an anchor for emergency actions by public works supporting community and business activities across the City.
- Expand and improve hazard response infrastructure at current distributed locations with particular emphasis in supporting the area "south of the bridge".
- Maintain the potential to build a future microgrid that may pool generation resources within the Civic Campus and distribute power to nearby users during a hazard event.

Guidelines

1. Identify and aggregate community-wide skills and capabilities to help plan, respond, and recover to different hazard events.
2. Address existing resources and infrastructure including caches, meeting points, and generators.
3. Strengthen communication network over easily accessible and redundant systems (e.g. CB radios satellite phones, cellular phone network).

4. Strengthen working relationship with Central Lincoln PUD with a focus on improving electrical grid and power reliability.
5. Identify critical infrastructure with the City and support back-up power supplies to these locations.
6. Promote community activity at locations where economic and social goals can be achieved to promote sustainability and hazard preparedness.
7. Maintain relevant communication and outreach with businesses and residents.
8. Allow use of multiple fuels to provide emergency power and energy at critical locations in the City.
9. Provide a network of accessible locations to support medical devices and drugs that require power or refrigeration.
10. Promote a network of safe spaces where community members can gather with power and communication sources and reconnect people who are separated during a hazard event.
11. Reduce reliance on carbon based fuels in emergency power generation.

Criteria

1. Supply diesel fuel storage that supports 3 month outage for the Cities Critical Facilities.
Measure: 5,000 gallon diesel storage system with annual maintenance to ensure fuel quality is available to meet emergency power needs on both sides of the Yachats River.
2. Establish caches on north and south sides of the Yachats river in preparation for Cascadia Seismic event according to the Emergency Preparedness Plan.
Measure: Continuously monitor contents of caches according to the Emergency Preparedness Plan.
3. Establish locations on the beach to cross the Yachats River if the Highway 101 bridge is out of service.
Measure: Make emergency beach access points on either side of the Yachats River and store bridge materials to cross the river.
4. Communications command center located in Civic Commons.
Measure: Measure: Locate radio antenna and command center in the City Hall building and ensure capability to communicate to distributed locations within the City.
5. Electrify city vehicle fleet and emergency generation systems to reduce demand for Diesel Fuel for emergency generation.
Measure: City to make initial electrical vehicle (EV) purchase and install EV charging station at the Wastewater Treatment Plant.

Civic Campus Scale Energy & Resiliency Criteria

The following list of goals, objectives, guidelines, and criteria apply to resilience investments within the Civic Campus. They are derived from community feedback as documented and interpreted by the planning team, and are intended to provide a method for identifying and evaluating potential resiliency investments. The Civic Campus is the heart of Yachats' social and economic system and significantly supports resilience for the community in Yachats and in the surrounding unincorporated areas. It has buildings and site improvements that makes a central place where the community convenes events and conducts government activities.

Goals

1. Connect Civic Campus buildings such that backup up power resources at one building can be shared to support neighboring buildings in an extended outage.
2. Make cost-effective investments in an integrated approach (e.g. invest in efficiency prior to renewable energy).
3. Installed systems should be compatible with a future network of power sources, potentially configured in a small microgrid which will allow power resources at the Civic Campus to be shared with nearby users.
4. The designed buildings and site improvements should provide the City with the greatest flexibility to respond to a power outage.

Objectives

1. Provide durable and reliable power generation to match minimum assignable loads during the 5 months when PV power generation is at its lowest.
2. Define and establish minimum assignable loads.
3. Use buildings and site improvements to make settings for day to day activities that can also provide a refuge following a hazard event.
4. Re-establish regular community functions on the Civic Campus to provide education and training about services, materials, and methods related to hazard events.
5. Establish areas of refuge and shelter within specific facilities.
6. Reduce energy and maintenance costs associated with facility operation.
7. Create a command center for emergency response and communications.
8. Provide a central community source for potable water if the water system is disrupted.
9. Enhance public hygiene capacity for visitors and residents with public bathrooms, handwashing station, water-bottle filling
10. Improve stormwater management to control surface runoff and use roof water capture and reuse for emergency uses to minimize runoff impacts and serve potable and non potable water uses.

Guidelines

1. Use and apply renewable energy systems.
2. Optimally locate and orient solar panels.
3. Establish multiple uses for any newly constructed solar canopies or support structures.
4. Promote diversity of energy systems sited on the Civic Campus (batteries, generators, EV chargers, etc.)
5. Evaluate projects within the Civic Campus development framework.
6. Upgrade facilities with seismic improvements as and where appropriate.
7. Reinforce activities that connect community members to programs that build capacity to work together during a hazard event.
8. Maintain community engagement to advance resiliency development.
9. Engage and involve businesses that promote a sustainable economic base for the City with the capacity to recover following a hazard event.
10. Strengthen the electrical infrastructure to connect multiple buildings to emergency power generation.
11. Plan renewable energy projects to ultimately achieve Net Zero Energy / Net Positive Energy performance and/or connect to a future microgrid.

12. Include appropriate amounts of refrigeration, lighting, cooking, heating, and cooling in the definition of minimum assigned loads that supports community needs during a hazard event.
13. Oversize conduit where it can be used to connect electrical infrastructure in the north and southeast edges of the campus.

Criteria

1. Meet wintertime electrical loads during an extended power outage.
Measure: For the Southeast edge, design a solar electric system that incorporates the backup generator, minimizes generator run-time, and meets a well-vetted set of minimum required loads during a power outage.
2. Provide power to critical loads independent of the availability of Utility power.
Measure: Implement net metering arrangement and obtain utility approval of installed solar electric systems.
3. Provide flexibility to power more loads when the projected time of the power outage is short or when temperature and daylight conditions are favorable.
Measure: Provide load management system to match use with power generation during the 5 months when PV power generation is at its lowest.
4. Implement a project that fits into the Civic Campus development framework.
Measure: Apply for and win ODOE construction grant for a resilience and renewable energy project on the Civic Campus.
5. Advance community awareness and hazard event training.
Measure: Organize and re-establish hazard event gathering and “festival” at the Commons.

Building Scale Energy & Resiliency Criteria

The following list of goals, objectives, guidelines, and criteria apply to resilience investments associated with individual buildings. They are derived from community feedback as documented and interpreted by the planning team, and are intended to provide a method for identifying and evaluating potential resiliency investments.

Goals

1. Reduce building operating costs.
2. Improve occupant productivity and comfort.
3. Improve safety of occupants, maintenance personnel, and visitors.
4. Sustain critical building functions for a 3 month power outage.
5. Improve how building uses and activities support social and/or economic outcomes in the City and sustain services during a hazard or emergency event.

Objectives

1. Reduce energy and maintenance costs associated with building operation.
2. Implement all cost-effective and appropriate energy efficiency improvements.
3. Install maximum amount of rooftop solar.
4. Relocate and/or replace deficient electrical system components.
5. Ensure all buildings have access to back-up electrical power.
6. Provide comprehensive and responsive system controls within all buildings.

Guidelines

1. Locate solar system components to allow for easy and safe cleaning and maintenance.
2. Meet all code and utility requirements.
3. Create an electrical system that allows smooth transition from normal operation settings to power outage.
4. Implement Energy Conservation Measures as a priority to reduce power demand met by renewable energy systems.
5. Connect to nearby buildings to share a common emergency power generation and storage system.
6. Select materials and systems that minimize long term operational and maintenance costs.
7. Minimize use of materials that contribute to ecological degradation and emit carbon during their production.

Criteria

1. Improve building energy efficiency on campus.
Measure: Ultimately achieve electric bill reduction targets of 6% on the north edge by 20 % and on the southeast edge. Coordinate and track utility bills to verify savings.
2. Establish and meet critical building loads at all times without complicated occupant or operator intervention.
Measure: Install electrical infrastructure with load management system to allow seamless transition from normal building operations to emergency operations.
3. Maintenance Cost; Use materials and building systems that are adapted to City of Yachats Public Works Department capacity and the site's location on the Oregon Coast.
Measure: Improve durability of the systems using building materials that are adapted to moisture and salt air.

VI. IMPLEMENTATION

Applying what has been learned through the engagement process, the plan document should be a touchstone and guide to improve the Civic Campus, as well as the areas around the Civic Campus. These improvements are intended to strengthen resilience by advancing community cohesion and economic development, and positioning the community to prepare for, survive, and recover from serious and disruptive hazard events. Through continuous engagement with the community, advice from partners, and direction of council this plan can be adapted to implement improvements that are logical and cost effective.

Administration and Support

It is recommended that the plan be adopted along with organizational measures to support the use of the plan. Plan administration and support is acknowledged as a critical element to ensure that any good idea that may be achieved in a funded project receives the necessary community stewardship to insure maximum success. This is envisioned to involve an entity inside the City or in collaboration with the City to administer the plan, i.e., an advisory group. Such an entity could recruit project and community partners and form trusting agreements as improvements are made on the campus. See *Appendix C | Draft 2.2 Community Vision and Project Parameters*

Inclusivity

It is also acknowledged that successful resilience projects should promote inclusivity across disparate communities within and around Yachats. To promote inclusivity with marginalized communities in Yachats, future projects need to identify partners early in the project who are engaged with providing support with BIPOC communities. This includes working with partners supporting LGBTQ, homelessness, food insecurity, tourism and other organizations on the Oregon Coast who include BIPOC equity outcomes in their mission and provide direct assistance, grant funding, and can sustain long term partnership agreements. Values that are reflected in future projects should be aligned with and communicated to potential partners who can leverage the investments in renewable energy and resilience. A fundamental value is seeking to collaborate with such partners to share costs and promote benefits that serve the most vulnerable in the most sustainable way that prepares everyone for anticipated hazard events. *See Appendix H | Relational Accountability Plan*

Acknowledging that the goal of resilience has a social cohesion and economic development component is important. Opportunities to respond within the local community and economy should promote inclusivity with underserved and marginalized people. Partnering with organizations that have similar goals and desired outcomes is valuable. In addition, having a working relationship and commitment that instills trust between partners makes it easier to form lasting agreements that can translate to implementation of more significant and comprehensive resilience projects.

Partnerships

This resilience plan for the Civic Campus recognizes that the programs and services that exist and must be operational during a hazard event. Most of these programs and services should be represented by members of an Advisory Group who can also maintain connections to the leaders in the community. It is expected that many of the emergent and potential partnerships may result from these relationships and connections. Partners should be recruited who have a shared interest in potential projects, and can contribute to the financial and community underpinnings of a given project. As priority projects are identified within the framework of this resilience plan, the City and its aforementioned partners can refine the definition of such projects and secure grant funding for those projects through financing agreements and other administrative mechanisms. Some initial ideas for potential partners are presented below.

Program Partners

The Presbyterian Church ministerial programs and Yachats Youth and Family Activities Program (YYFAP) as well as other community and business organizations use the Civic Commons; they often conduct programs that serve disinvested and underserved in BIPOC and white communities.

Capital Improvement Partners

Collaborating organizations that have resources to support construction and maintenance of projects that fit into the framework of this plan could be supported through an ODOE Community Renewable Energy and Resilient Planning Grant. Collaborators who have self-identified as advocates and allies for over the course of this planning effort include:

- ODOE
- Oregon Coast Visitors Association
- Library Commission
- Chamber of Commerce
- Presbyterian Church

Project Implementation

Use the assessment framework and the plan criteria to define and prioritize projects. The goal is to create a project that meets resilience goals as well and attracts partners to support funding and operations of the project.

Decision Making

For a given potential project to get started a clear decision-making process needs to be defined and understood. In Yachats, final decision making power is founded by City Council's resolution. Part of the decision making process is likely to occur well before Council resolutions are considered and includes determining what elements of a project are good ideas and whether it is worth supporting. Another part is establishing criteria for implementation that can help the community and city council weigh the value of projects that are competing for limited resources.

A decision making process is needed that includes the formation of a recommendation from an advisory group to City Council that is well supported by the vision and goals determined through the community engagement process and value to the City as a whole. Such an advisory group could have the agency to form agreements, form projects, and help guide the project through the entire implementation process from resolution adoption to post-construction operation.

Agreements

Agreements would typically start with memoranda of understanding between collaborative partners who have an interest in pursuing a grant, forming a project definition, securing funding, and/or operating facilities. These initial agreements would establish the lead entity for delivering the project and who would maintain the facilities.

Follow-up agreements would potentially include financing and other more comprehensive operating agreements between partners to achieve shared outcomes and establish each partner's role through project design, finance, construction, and operation of facilities.

Long Term Stewardship

Longer-term operating agreements are possible to assign responsibility to an entity to coordinate successful project development and long term operations. Such an entity would report to the City Council but might administer the day to day activities to support grant application preparation, design of facilities, construction, and long-term facility operations.

Implementation Criteria

The following list of goals, objectives, guidelines, and criteria apply to the implementation of potential resiliency projects both in the near-term and longer-term future. They are derived primarily from the experience of the planning team members, and are intended to prepare City leaders and decision-makers to successfully navigate the complexities that can be involved in infrastructure construction and especially existing facilities retrofits and remodels.

Goal:

1. Make efficient use of the City's Capital Improvement Budget to leverage budgets that may already be approved for building component improvements by including those improvements in supplemental grant funding applications.
2. Pursue grants and stimulate private investment to fund resilience projects on the Civic Campus.

Objective:

1. Define a grant competitive renewable energy and resilience project
2. Apply for and win grant funding.
3. Identify partners who can co-invest and equitably share the costs and benefits.
4. Create or hire a project administrative entity.

Guideline:

1. Follow the resilience planning framework as defined in this plan.
2. Understand and follow grant submission requirements and guidelines.
3. Meets the project cost requirements of grant and private funding sources.
4. Achieves a proposed project funding ratio of \$1 of City investment to \$5 of non-City investment (from other sources such as grant funding or private investment).
5. Responds to both aspects of resiliency – hazard event response and social/economic sustainability).
6. Includes scope of work elements that respond to needs of marginalized communities and supports recruitment of partnerships within those communities.
7. Has the capacity to track and prepare grants with partners on an annual basis to support investment in the Civic Campus and City overall.

Criteria:

1. Minimizing cost to the City.
Measure: City investment should not exceed 20% of the grant cost.
2. Have a project partner (s) who share common interest and who want to share the costs and benefits of investing in the City.
Measure: Develop memorandum of understanding to establish and guide roles during project definition.
3. Sharing capital and operational cost equitably.
Measure: Approve finance agreements to initiate projects and secure funding between partners.
4. Give an entity the capacity to pursue grant funding, define a project, find partners, and form agreements to build and operate a project.
Measure: City Council action to define the role and responsibilities of an entity to advance grant funded projects.
5. Have an approved project.
Measure: City Council action approves project to move forward.

VI. CONCEPTS & PROJECTS

Candidate Scenarios

The four candidate energy concept scenarios were defined and evaluated in the development of this plan are listed below. As noted in Chapter IV, Selecting the Southeast Priority Edge, because the Northern edge of campus has significant resilience already through backup generation at the WWTP, these scenarios focus on the Southeastern campus edge to enhance resilience where there is an existing gap and create greatest opportunity for improved community refuge. All provide renewable and resilience energy to the Southeast edge of the Civic campus and are generally configured as variations of the system schematic shown below. See *Appendix E: Summary of Relevant Concepts for Civic Campus* for more detailed information on each of these scenarios.

Scenario 1 - Solar Rooftop only

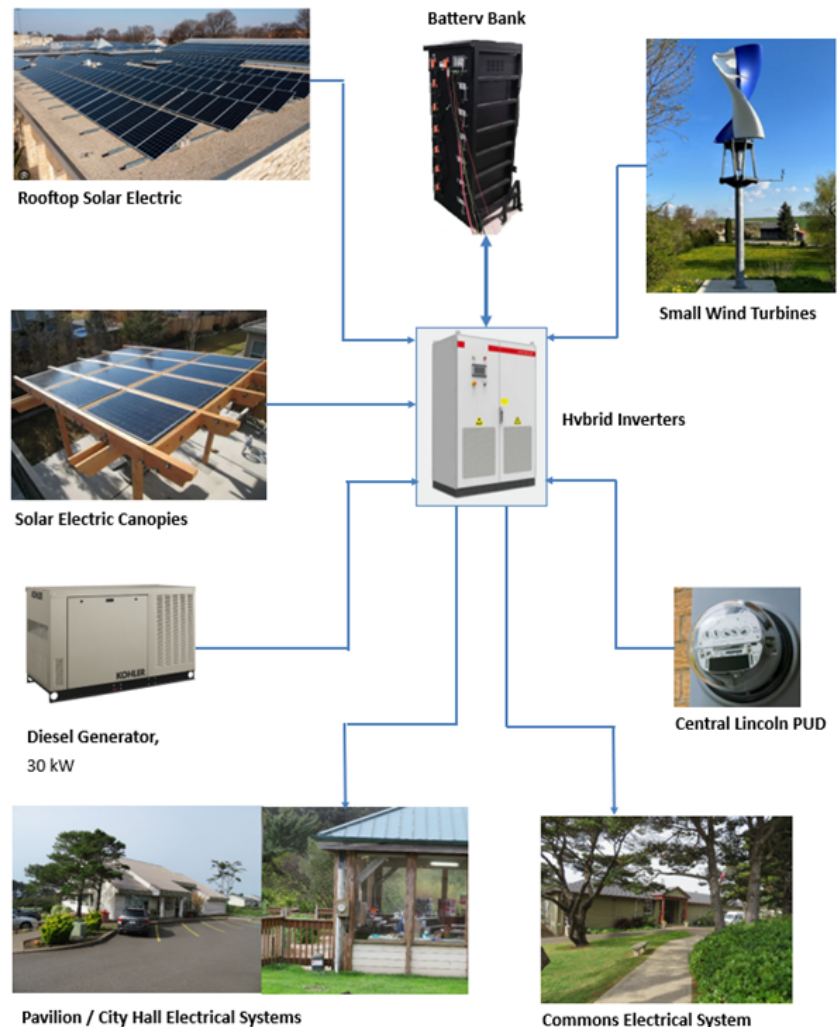
Scenario 2 - Solar Roof Top with Wind (no Solar Canopies)

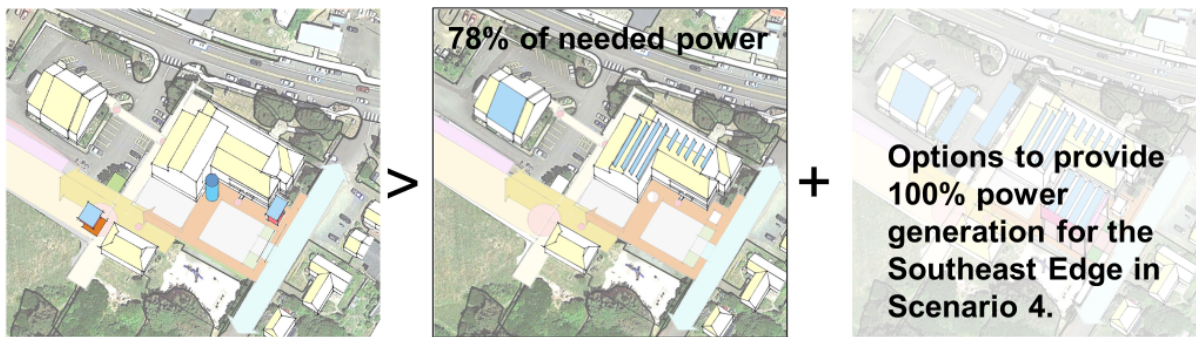
Scenario 3 - Full Solar and Wind (with Solar Canopies)

Scenario 4 - Optimized Solar only (Canopies and Roofs)

All scenarios build upon a basic electrical infrastructure foundation that includes upgraded electrical equipment rooms and site distribution that facilitates connection to energy generation equipment and electrical loads in the Southeast edge. Conceptually, these scenarios are all variations of the system illustrated above.

Based on the comparatively poor performance associated with small scale wind turbines, only Scenarios 1 and 4 were carried forward for more detailed performance and budget analysis as *Candidate Project Options*. As candidate projects, these options were further structured to allow sequential additions to a base project option (Scenario 1) that could provide at least 78% of the total Southeast edge annual electricity needs (following implementation of building energy efficiency measures). Sequential project additions were excerpted from scenario 1 and defined as scenario 4 that would provide all of the annual electricity requirements and achieve Net Zero Energy performance in the Southeast edge. Both scenarios were further evaluated for their potential to become a priority project that has the highest success potential to be included in a subsequent \$1 million ODOE construction grant.





Anticipated Projects

Scenario 1

Scenario 4

Image: Candidate concept scenarios also anticipate community goals for bathrooms, kiosks, and rainwater collection as well as the basic infrastructure locations that connect the Pavilion, City Hall, and Commons as a refuge for services that have 100% of the power needed to operate facilities following a hazard event.

Candidate Scenario Concepts

The candidate scenario concepts are aligned with the site development framework and project goals (as defined in Sections IV and V of this plan) that are applicable to the Southeast edge. In the southeast corner, there are several scenarios and opportunity sites within which to add solar panels on the roof or on standalone canopies.

Scenario 1

Project candidate options were somewhat limited within project scenario 1. In addition to the base scope that covers supporting electrical equipment and electrical site distribution, the scope variations involve the location, configuration, and capacity of rooftop solar panels. Three additive scope of work definitions were ultimately defined as an outcome of the project performance evaluations.

Option 1A: Commons Rooftop Solar: 49.56 kW raked installation that generates 54,070 kWh annually (53.2% of annual SE edge use after efficiency and 15% of winter months electricity use).

Option 1B: Commons Rooftop Solar & City Hall Center Roof Area: 49.56 kW raked installation & 29.4 kW flush-mounted panel installation that generates 78,463 kWh annually (77.2% of annual SE edge use after efficiency and 22% of winter months electricity use).

Option 1C: Commons Rooftop Solar & City Hall Entire (west-facing) Roof Area: 49.56 kW raked installation and 51.24 kW flush-mounted panel installation that generates 98,542 kWh annually (96.9% of annual SE edge use after efficiency and 27% of winter months electricity use).

Scenario 4

For concept Scenario 4, six project options were defined, all of which considered different locations, construction types, and materials. The variations were significantly more complex than scenario 1 with varying site structures and canopies that all would include additional solar photovoltaic panels but would also create site amenities that could enhance community use of the site in different ways. Each

had potential tradeoffs in potential to reinforce site design objectives, support covered activities outside, or provide outdoor for community activities.

See Appendix E Summary of Relevant Concepts for Civic Campus for more details.



Caption: Six candidate options were considered to boost collection capacity to generate as much power as would be required to sustain the Southedge activities for up to 3 months when power generation is at its lowest.

Evaluation of these candidate project options was more complex than the energy performance evaluation executed for scenarios 1 and 4. Feedback from the community was solicited during the in-person open house, and the candidate options were scored within a four-star scoring system across multiple benefit categories, as shown below (next page). The mass timber barn site structure option scored the highest but as discussed further in this section, comes with a significant first cost that will preclude it from being submitted for grant funding in the next grant cycle. Energy performance associated with project option 4 is summarized below (additive to Option 1C).



Benefit	Simple Porch	Big Porch	Barn Metal	Barn Mass Timber	Pergola	Commons Parking
Cultural	***	****	****	****	*	*
Economic	****	****	****	****	**	**
Social	***	****	****	****	**	**
Resilience	**	***	****	****	**	**
Recreation	**	***	****	****	***	**
Maintenance	****	****	**	***	***	***
Power Generation	**	***	****	****	****	****
Cost	***	***	***	****	****	***

The Mass Timber Barn Scored highly as a candidate project with the greatest value proposition but exceeded the ODOE limit of grant funding of \$1,000,000. * = low to **** = high

Option 4A: Mass Timber Barn: 22 kW racked installation on a 60-ft. by 60-ft structure that generates an added 25,036 kWh annually. When added to Option 1C, total renewable power generated is 123,578 kWh annually (121.6% of annual SE edge use after efficiency and 37% of winter months electricity use).

Option 4B: Parking Canopy: 24 kW flush mounted installation on a single 86-ft by 16-ft canopy that generates 25,734 kWh annually. When added to Option 1C, total renewable power generated is 124,285 kWh annually (122.3% of annual SE edge use after efficiency and 35% of winter months electricity use).

Priority Project Options Criteria

Goal

1. First cost, meet the \$1 million funding threshold for the ODOE Community Renewable Energy Construction Grant.
2. Maximum Renewable Energy: Maximize renewable energy generation, annually and during the winter months.
3. Minimum fossil fuel such as diesel fuel consumption within the supplemental back-up electrical generator.

Objective

- 1. Define a grant competitive renewable energy and resilience project
- 2. Apply for and win grant funding in the next construction funding cycle.

Guideline

- 1. Follow the resilience planning framework as defined in this plan.
- 2. Understand and follow grant submission requirements and guidelines.

Criteria

- 1. Reduced energy use in buildings. **Measure: Southeast edge electricity use is reduced by at least 20% relative to recent billing history.**
- 2. Maximum renewable energy generated. **Measure: Solar system provides at least 78% of Southeast edge electricity after efficiency measures.**

Priority Project Options Budget and Phasing Analysis

Budget analysis was undertaken to evaluate the best priority project candidate to carry forward into a \$1 million ODOE construction grant application. Project option 1B, as summarized below, exhibited a potential project budget that indicated potential success in a subsequent grant application. While the benefits are predominantly about electrical power resiliency and energy cost savings, a number of infrastructure benefits are anticipated to accrue to the City based on the scope definition for Option 1B. Note that a detailed scope of work including a drawing package has been developed and will be submitted as part of a grant application upon approval for the Yachats City Council.



Option	Leveraged Projects	A. Roof Option (1b)	B. Barn Option	C. Parking Solar Canopy
Program	Water Collection, Filtration, and Distribution with toilet and kiosk facilities.	Electric Infrastructure (\$390,000) with roof mounted solar panels on City Hall and Commons building	Electric Infrastructure (\$390,000) with a freestanding barn to hold up the solar panels.	Electric Infrastructure (\$390,000) with 1 or 2 freestanding canopies with solar panels installed.
Economic Social	Yes	Mainly Power	Yes	Mainly Power
Grant Funded	Future	\$850,000	\$1,000,000	\$1,000,000
City/Partner Budget	Future	\$148,000	\$903,000	\$345,000
Project Budget	TBD	\$998,000	\$1,903,000	\$1,345,000

Caption: The first phase would include the electrical infrastructure, be competitive during a grant application process and be affordable to the City.

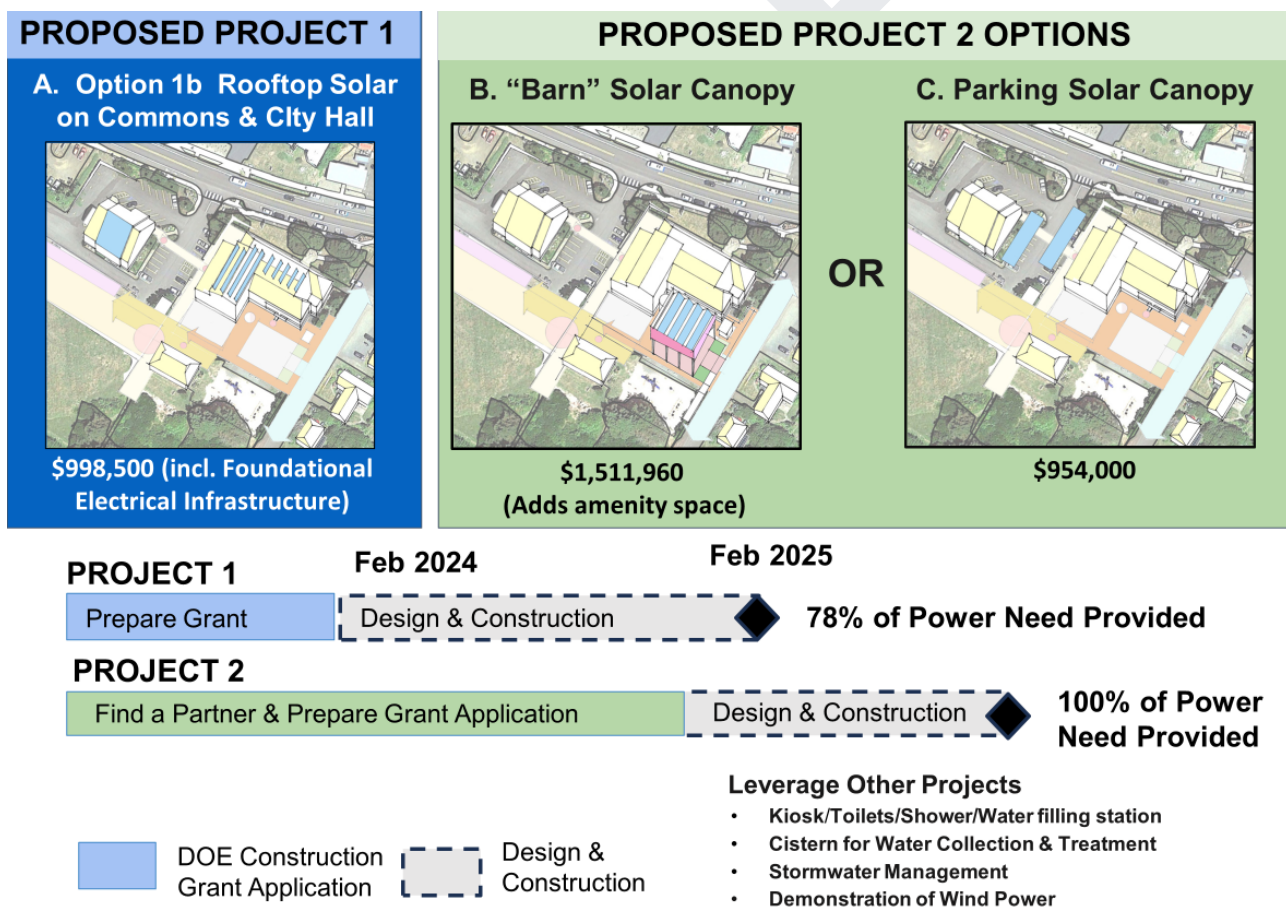
Significant scope of work elements in Option 1B include:

- Basic electrical system infrastructure: New relocated main panel, new sub-panels and load circuiting, rehabilitated generator, conduit and conductor to interconnect buildings.
- Solar system: Premium photovoltaic panels (roof mounted), hybrid inverters, batteries, and controls.
- Efficiency measures: Lighting upgrades, heat pump upgrades, floor insulation, heat pump water heaters, HVAC controls re-commissioning.

The back-up power capacity and functionality will be much improved due to this project. In addition, electrical energy costs will be significantly reduced, visual and thermal comfort will be improved, and general safety for operations and maintenance will be improved. The basic electrical infrastructure work is defined to facilitate future expansion of the renewable energy system.

Phasing

In general, the Southeast edge project concept fully supports project phasing and ongoing site improvements to the Southeast edge (as illustrated below) while not precluding the City from undertaking additional work in the North edge.



Proposed Project Phasing: The least expensive cost to the city which derives the needed electrical system is contained in the proposed grant application priority project. This initial project anticipates a second step to generate 100% of the power needed for the Southedge of the Civic Campus after a hazard event during the winter when the solar collection potential is at its lowest. See Appendix F Final: 5.1 Assessment of Leading Candidate Project.

VII. NEXT STEPS

The Yachats Civic Campus Resilience Plan should be adopted with the following Plan Strategies, Preferred Priority Project, and Implementation Priorities.

Plan Strategies

The resilience plan for the City through the CREPG has three primary scales to support community cohesion around critical facilities that the community needs to strengthen to anticipate and recover from more frequent hazard events. This includes the ideas uncovered during community engagement that can be expressed as strategies that are to be deployed across the City Scale, those at the Civic Campus Scale, and at the building scale within the Civic Campus. These strategies are supported by the efforts of public policy, capital improvement plans, and co-investment with partners in the business community as well as federal, state, and county governments.

City-Scale Resiliency			
Strategy	Action	Status	Lead
Emergency Preparedness Plan Amendment since adoption of NHMP	City Adoption	Pending	City Manager
Expand Fuel Storage for Diesel Backup generators.	Locate 5,000 gallon tank at County Fire Station or in separate smaller tanks that can be located on both sides of Yachats River.	Pending	City Manager
South of Yachats River Refuge and Resilience Center	Consider applying for an ODOE Planning grant to site a facility meeting the needs and goals of South of Bridge residents	Pending	City Council
Civic Campus Scale Resiliency & Project Phasing			
Strategy	Action	Status	Lead
N Edge Resilience	Connect buildings on the North Edge to the 250 Kw Emergency Generator and add solar panels to reduce reliance on diesel fuel for emergency power.	Future g ODOE construction Grant for \$1,000,000.	City Manager
SE Edge Resilience & Refuge	Upgrade electrical infrastructure and add rooftop solar panels to reduce reliance on diesel fuel for emergency power and provide power for up to 3 months during the worst solar power generating days.	Submitting for ODOE CREPG construction Grant for \$1,000,000.	City Manager
Buildings Scale Improvements			
Strategy	Action	Status	Lead
Energy efficiency measures to improve energy efficiency for the buildings on the North and Southeast Edges of the Civic Campus.	Capital Improvement Plan to update buildings through ongoing maintenance. Seek grant funding for sensors and controls that allow shutdown of circuits during a prolonged outage.	Pending	City Manager

Many needs were identified during the course of this planning effort, many in addition to those that have been organized and evaluated in some depth within and around the Civic Campus. The table below provides an overview of additional needs that warrant serious consideration and action as follow-up “projects” related to community and City resiliency.

CITYWIDE INTEGRATED SYSTEMS	Where & How Much	Resiliency Value
Basic Needs	Possible Location	Role
Refuge	Civic Campus Commons, City Hall, Church, Library etc	Shelter, warmth,
Energy Generation	Civic Campus Buildings	Power
Fuel Storage	Fire Station	Power, Diversity of Back up power
Fire Protection	Fire Station	Life Safety
Caches	Citywide, South of Bridge	Emergency Supplies
Water Filtration & Storage	South Edge Civic Campus, South of Bridge	Clean Water
Central Distribution Center	South Edge Civic Campus City Hall & Commons	Access to Food & Water
Mobile Generators	North Edge Civic Campus WWTP (& City Hall/Commons?)	Access to power
Information Center	Civic Campus, Kiosk near 4th	Tourism, Communication
Satellite phones, radios	City Hall, WWTP	Communication
Mobile Batteries Devices	North Edge Civic Campus WWTP (& City Hall/Commons?)	Access to Power
Refrigeration	Commons	Access to Food
Access - Bikes & Peds	Trails	Access
Vehicle Charging	Bike & EV Charging, City Fleet at WWTP	Batteries, tourism amenity, City fleet
Hygiene	Restroom Kiosk at Civic Campus South Edge	Hygiene
Training	City Hall/Commons Annual Event	Emergency Preparedness, Education
Signage	Trails, Meeting Points, Civic Campus Signage, Reader Board	Communication, Tourism, Education, Wayfinding
Medical Supplies	Caches, City Hall, Commons	Life Safety
Lighting	Trailheads, wayfinding to refuge & meeting points	Access, Communication, Wayfinding

Citywide systems integration supporting elements of resilience for the City can be achieved by adopting the Civic Campus Resilience Campus Plan.

Preferred Priority Project for February 2024

As discussed in previous sections, the preferred priority project is Project Option 1. Final project cost determination is anticipated to narrow the selected project to one of the following that is priced under the budget in the subsequent grant application in February of \$1,000,000.

Scenario 1A - Rooftop Solar on Commons Building (flat roof areas only)

Scenario 1B - Rooftop Solar on Commons & City Hall (center west-facing roof section only)

Scenario 1C - Rooftop Solar on Commons & City Hall (all west facing roof sections)

Subsequent Project Planning, Following February 2024

Two additional options were identified that respond to the community vision and goals from public meetings, surveys and advisors. These would require co-investment with City funds, those of another partner, or through a subsequent grant application.

- Solar Canopy Adjacent to Commons and 4th Street - Scenario 4a (as originally Option 4 Barn) as a covered public space for economic and social activities.
- Solar Canopy over Parking - Scenario 4B is revised to not build the Barn but instead place solar panels on structures over the parking stalls between the Commons and City Hall. It would be a less expensive to put panels over the parking stalls as a second phase than to build a Barn with the program and finish features that have been discussed in community meetings.

The second subsequent project would involve initiating a planning process to develop a refuge and resilience center south of the Yachats River.

- Identify a site that is suitable to withstand anticipated hazard events.
- Confirm its program elements such as caches, renewable power, communication, and means of access across the Yachats River.

Implementation Priorities

1. Select a priority project to include for grant funding in partnership with ODOE.
2. Form a grant implementation team who can assist the City in the formation of partnerships to pursue grant applications that lead to programs or capital improvements supporting underrepresented and marginalized as well as those more specifically experiencing racial injustice.
3. Partner with organizations working on projects that include BIPOC communities such as Tribal entities seeking to promote restorative justice, social cohesion, and enduring economies which are foundational to resilience.

VIII. APPENDICES

- A. Audit Facilities in Civic Campus
- B. Assessment of County Electric Improvements
- C. Community and Project Parameters
- D. Criteria: Renewable & Resilient Facilities & Strategies
- E. Summary of Relevant Concepts for Civic Campus.
- F. Assessment of Leading Candidate Concept.
- G. Community Engagement
 - Public Engagement Process and Procedures
 - Workshop 1
 - Open House 1
 - Open House 2
 - Community Survey Responses
- H . Relational Accountability Plan
- I. Project Reporting.



*City Council Regular Meeting
Meeting Date: January 17, 2024*

ITEM TITLE: OSU Micro-Plastics Solutions Study Partnership

DISCUSSION/BACKGROUND/ISSUE:

Oregon State University and the Oregon Sea Grant have received a grant to address the ubiquitous and multifaceted threat of microplastics and microfibers - as aquatic and marine debris, we will execute a research-to-action project to assess the efficacy of distributed wastewater and stormwater preventative interventions on microplastic loads to coastal watersheds and in effluent water.

Request from municipalities:

1. Assist project team with
 - a. identifying three stormwater location to sample and
 - b. assist with sampling those storm drains in your community during a winter (Feb), Spring (April or May), and Fall (October) storm in 2024 and again in 2025.
 - c. 1-2 engaged city staff participate in a 20-minute interview at the beginning, middle, and end of the project. It can be a joint interview or individually and can be in person or over Zoom.

\$700 budgeted per city for staff time to cover the 6 sampling events.

2. If participating in storm drain inserts component (Yachats and Cannon Beach),
 - a. Information on which basin inserts you prefer for each site
 - b. assist with installation of inserts at 3 storm drains during late Fall 2024
 - c. quarterly cleaning out of inserts.

\$1500 budgeted per community to cover staff time to assist with sampling and clean outs

3. For the two communities with storm drain inserts, assist with selecting location of and wording on informational sign at storm drain insert locations to educate the public about the inserts (the project will pay for the signs)

4. Collect influent and treated effluent at wastewater treatment plant every 10 days in June 2024, Jan 2025 and June 2025 (3 samples per month in each of the 3 months)

FISCAL IMPACT:

They provide a stipend to support the staff time that the project entails and supply all the materials.

RELEVANCE TO 2023 COUNCIL GOALS:

- a. Achieve water sustainability
- b. Deliver efficient, effective, transparent municipal services
- c. Provide safe access to and use of city infrastructure, trails, and parks
- d. **Environmentally responsible in all that we do**
- e. Effectively manage and plan for the city's financial needs
- f. Synchronize and update city policies and administrative rules.

RECOMMENDATION:

The city manager recommends working with OSU on one or both solutions to minimize micro-plastics in our waterways.

ALTERNATIVES:

1. *Choose to not partner with the OSU study on micro-plastic solutions*

PREPARED BY:

Bobbi Price
Yachats City Manager

ITEM'S ATTACHED:

[Microplastics science optimizing solutions: Testing strategies for Oregon](#)