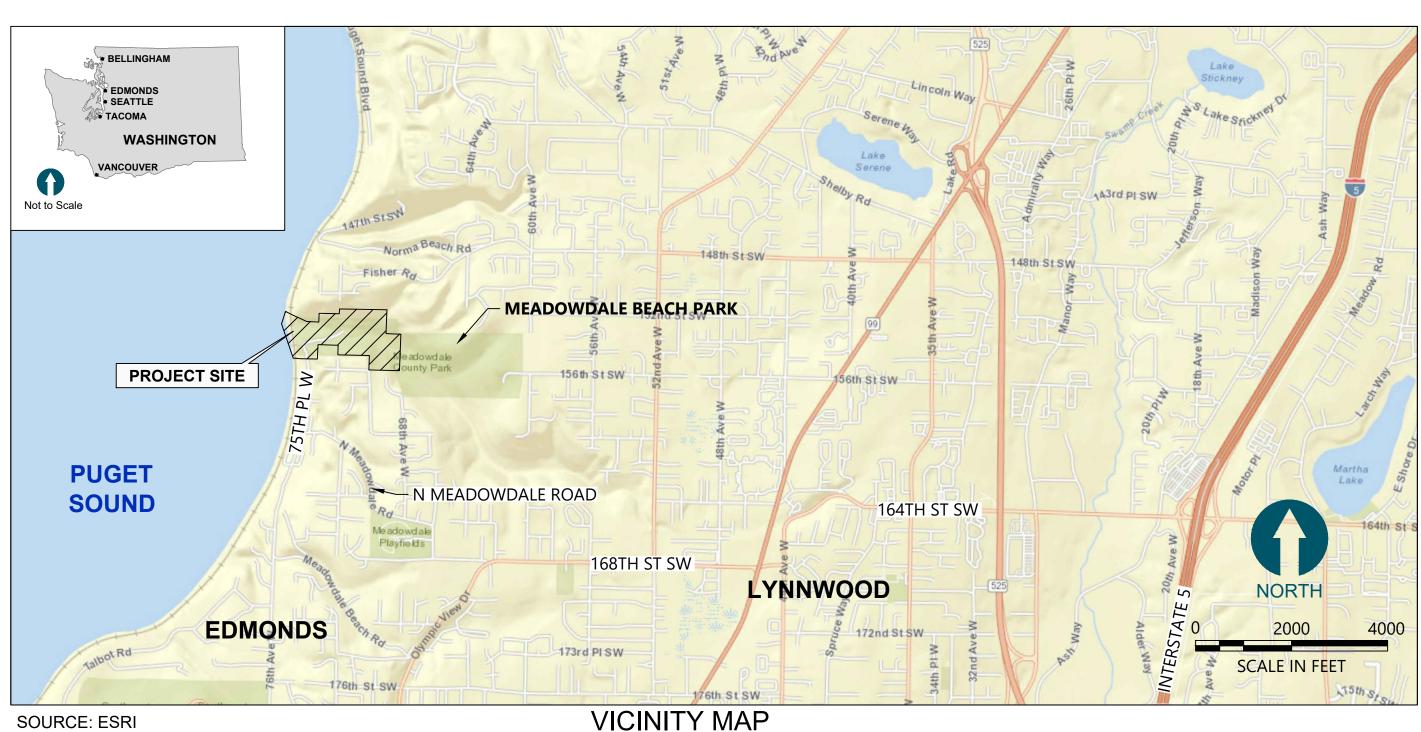
SHT # | DWG # | TITLE

G-1 PLAN COVER SHEET

# MEADOWDALE BEACH PARK AND ESTUARY DESIGN

# SNOHOMISH COUNTY PARKS AND RECREATION



- "MEADOWDALE BEACH PARK AND ESTUARY DESIGN PLANS" BY ANCHOR QEA AND ON THE "MEADOWDALE BEACH RAILROAD BRIDGE CIVIL PLANS" AND THE "MEADOWDALE BEACH RAILROAD BRIDGE - STRUCTURAL PLANS" PREPARED BY HANSON PROFESSIONAL SERVICES.
- 2. ALL WORK SHOWN WITHIN THIS SET OF PLANS BY ANCHOR QEA AND THE RAILROAD BRIDGE CIVIL PLANS SHALL BE ACCOMPLISHED BY THE CONTRACTOR UNDER CONTRACT WITH SNOHOMISH COUNTY UNLESS OTHERWISE SPECIFIED. WORK PROPOSED ON THE RAILROAD BRIDGE STRUCTURAL PLANS SHALL BE RESPONSIBILITY OF BNSF OR THEIR DESIGNATED CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- 3. THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE PLANS WITH RAILROAD BRIDGE WORK SHOWN ON THE RAILROAD BRIDGE STRUCTURAL AND CIVIL PLANS. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL DETAIL ON COORDINATION OF WORK.

#### **Prime Consultant**



Project Manager: Peter Hummel, PLA Civil Engineer: David Rice, PE

1201 Third Avenue Suite 2600 Seattle WA, 98101 (206) 287-9130

#### Owner

Snohomish County Parks and Recreation 6705 Puget Park Drive Snohomish, WA 89296 Project Contact: Logan Daniels, PE (425) 388-6619 logan.daniels@snoco.org

# **Architectural Consultant**

Salt Studio LLC (206) 948-2104

### Surveyor

**Duane Hartman and Associates** (425) 483-5355

Structural Engineering Consultant Swenson Say Faget (206) 443-6212

# Irrigation Consultant

William Stewart Design (206) 605-9863

# **Electrical Engineering Consultant**

**Cross Engineers** (253) 759-0118

### **COUNTY EXECUTIVE: DAVE SOMERS**

DIRECTOR OF PARKS AND RECREATION: TOM TEIGEN COUNCIL DISTRICT 1/COUNCIL CHAIR: NATE NEHRING

COUNCIL DISTRICT 2: MEGHAN DUNN

COUNCIL DISTRICT 3/COUNCIL VICE-CHAIR: STEPHANIE WRIGHT

COUNCIL DISTRICT 4: JARED MEAD

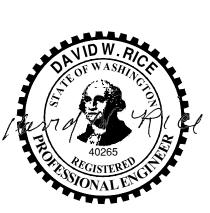
## COUNCIL DISTRICT 5: SAM LOW

SITE ADDRESS: 15433 75TH PLACE WEST EDMONDS, WA 98026

TAX PARCEL NUMBERS: 00500900000500, 27040500200100,

27040500200200 LEGAL DESCRIPTIONS: SEE SHEET G-4

PROJECT CESCL: LOGAN DANIELS, #81260 (UNTIL TRANSFER OF COVERAGE FROM COUNTY TO CONTRACTOR IS APPROVED BY DEPT. OF ECOLOGY)



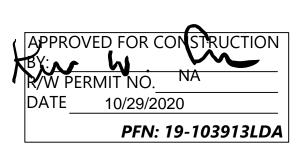
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| _ |    |      |  |

| EARTHWORK – APROXIMATE GRADING           | G QUANTITIES: |          |
|--|---------------|----------|
|  | EXCAVATION    | FILL     |
| RAILROAD BRIDGE CONSTRUCTION:            |               |          |
| TEMPORARY EMBANKMENT (IMPORTED MATERIAL) | 2,800 CY      | 2,800 CY |
| STRUCTURAL EXCAVATION/FILL               | 3,000 CY      | 500 CY   |
| SUBTOTAL – RAILROAD BRIDGE CONSTRUCTION  | 5,800 CY      | 3,300 CY |
|  |               |          |
| PARK AND ESTUARY CONSTRUCTION:           |               |          |
| TOTAL EXCAVATION (NATIVE MATERIAL)       | 15,400 CY     |          |
| TOTAL PLACEMENT (NATIVE MATERIAL)        |               | 2,600 CY |
| TOTAL PLACEMENT (IMPORTED MATERIAL)      |               | 4,400 CY |
| SUBTOTAL – PARK AND ESTUARY CONSTRUCTION | 15,400 CY     | 7,000 CY |
|  |               |          |
| TOTAL EXCAVATION (NATIVE MATERIAL)       | 21,200 CY     |          |
| TOTAL PLACEMENT (NATIVE MATERIAL)        |               | 2,600 CY |
| TOTAL PLACEMENT (IMPORTED MATERIAL)      |               | 7,700 CY |

|      |       | DRAWING INDEX  |
|------|-------|--|
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| 78   | L-4   | PLANTING DETAILS   |

DRAWING INDEX

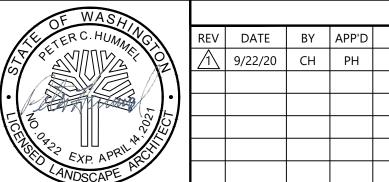
| HARD SURFACE CALCUATIONS:       |                     |
|---------------------------------|---------------------|
| REPLACED HARD SURFACE           | 6,733 SF (0.15 AC)  |
| NEW HARD SURFACE                | 23,235 SF (0.53 AC) |
| NEW + REPLACED HARD SURFACE     | 29,968 SF (0.69 AC) |
| EXISTING HARD SURFACE TO REMAIN | 28,466 SF (0.65 AC) |
| TOTAL POST-PROJECT HARD SURFACE | 58,434 AF (1.34 AC) |



100% CONSTRUCTION DRAWINGS/BID SET







|             |    |       | REVISIONS                     |                        |
|-------------|----|-------|-------------------------------|------------------------|
| DATE        | BY | APP'D | DESCRIPTION                   | DESIGNED BY: PH        |
| <br>9/22/20 | СН | PH    | REVISE EARTHWORK VOLUME TABLE | DRAWN BY: <u>CH/TG</u> |
|             |    |       |                               | CHECKED BY: DR         |
|             |    |       |                               | APPROVED BY: PH        |
|             |    |       |                               | SCALE: AS NOTED        |
|             |    |       |                               | DATE: SEPTEMBER 2020   |
|             |    |       |                               |                        |

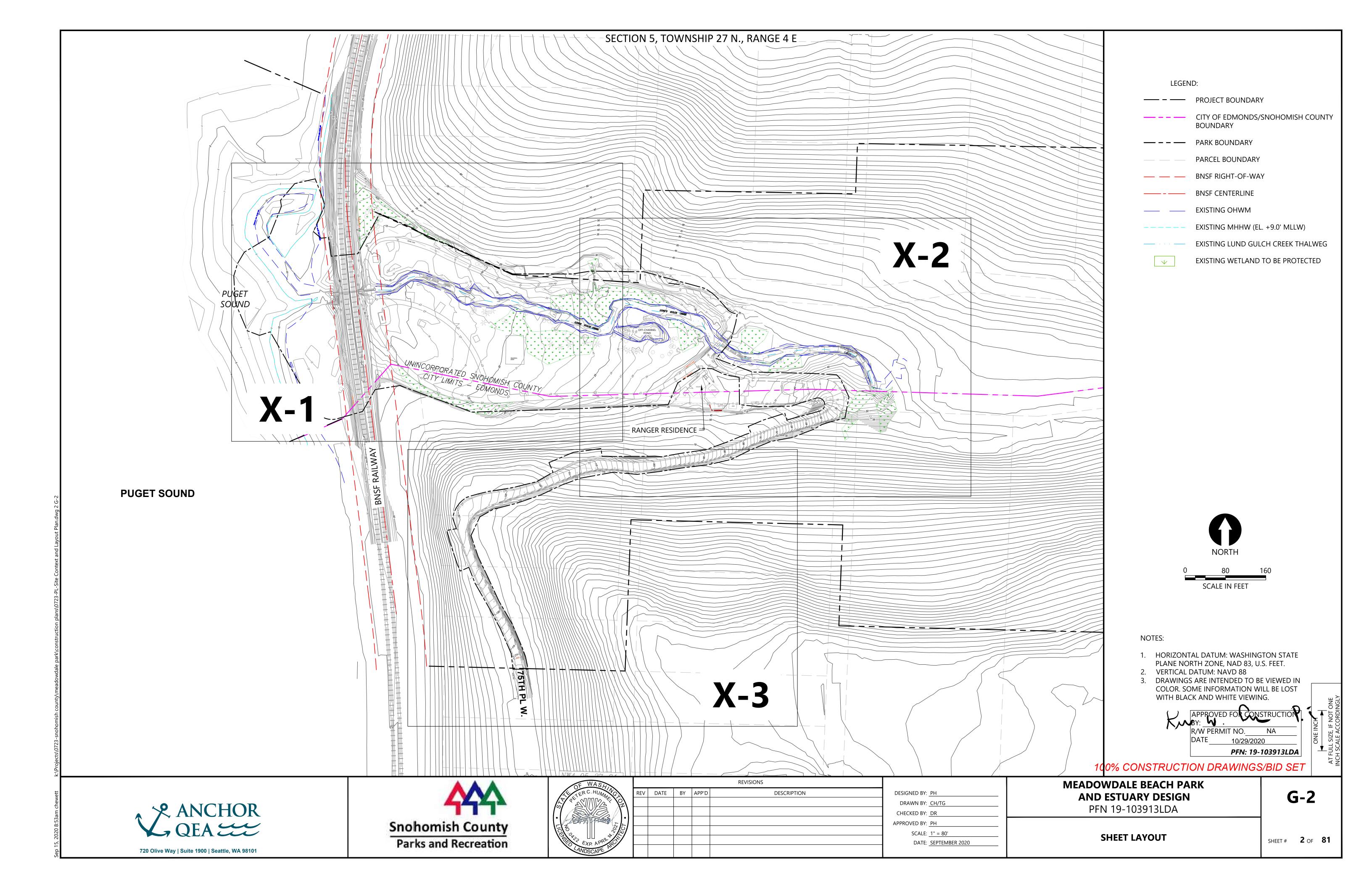
## MEADOWDALE BEACH PARK **AND ESTUARY DESIGN**

PFN 19-103913LDA

PLAN COVER SHEET

**G-1** 

SHEET # 1 OF 81



- 1. ALL EMPLOYEES MUST COMPLY WITH BNSF SAFETY REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, PASSING A SAFETY COURSE, OBTAINING DOCUMENTATION OF SUCCESSFULLY PASSING THE COURSE, AND ADHERING TO REQUIREMENTS IDENTIFIED IN THE COURSE. THE REQUIRED BNSF SAFETY COURSE MAY BE ACCESSED AT THE FOLLOWING WEBSITE: WWW.RAILROADCOURSES.COM.
- 2. A BNSF FLAGGER SHALL BE PRESENT ANY TIME THE CONTRACTOR IS WORKING WITHIN 25 FEET OF THE TRACKS. THE CONTRACTOR SHALL COMMUNICATE WITH THE OWNER TO ARRANGE FOR A FLAGGER TO BE PRESENT DURING THESE
- DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. SOME INFORMATION WILL BE LOST WITH BLACK AND WHITE VIEWING.
- THE ENTIRE PROJECT SITE LIES WITHIN A CRITICAL AQUIFER RECHARGE AREA WITH LOW SENSITIVITY, WITH DEPTH TO AQUIFER OVER 100 FEET.

#### **SURVEY NOTES:**

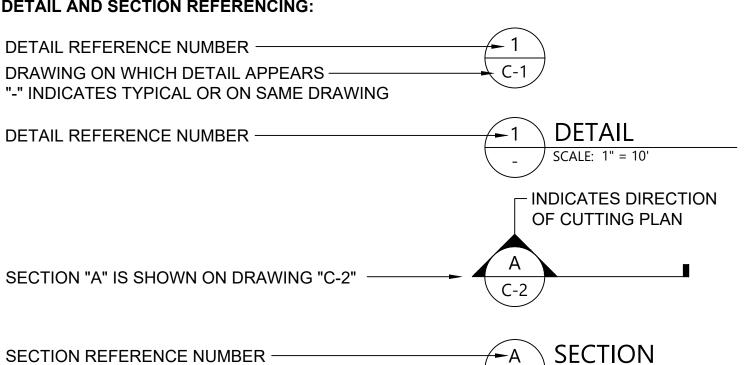
- 1. SURVEY BY DUANE HARTMAN & ASSOCIATES, INC IN 2017.
- 2. HORIZONTAL DATUM: WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), U.S. FEET UTILIZING RTK GPS FIELD PROCEDURES
- 3. VERTICAL DATUM: TO CONVERT ELEVATIONS SHOWN HEREON TO MEAN LOWER LOW WATER DATUM PLEASE ADD 2.05 FEET.
- UTILITIES MAPPING: ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).
- 5. TOPOGRAPHIC MAPPING: THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED ON OCTOBER 2016. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425) 483-5355 FOR SITE UPDATES AND VERIFICATIONS.
- 6. RAILROAD RIGHT-OF-WAY LINES: THE BNSF RAILWAY RIGHT-OF-WAY LINES SHOWN HEREON HAVE BEEN CALCULATED USING TRACK STATIONING, RAILROAD GEOMETRY AND CADASTRAL CALL OUTS AS SHOWN ON "BNSF RAILWAY" RIGHT-OF-WAY".

| TRIGITI OF WITH .                                 | MOTIT-OF-WAT:                           |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| EXISTING TIDAL INFORMATION AT THE SITE            |   |  |  |  |  |  |  |
| DATUM   | 2015 (SEE NOTE A)                       |  |  |  |  |  |  |
| DATUM   | ELEVATION (FEET, NAVD88/FEET MLLW 2015) |  |  |  |  |  |  |
| HIGHEST ASTRONOMICAL TIDE<br>(SEE NOTE C)         | 10.5/12.5                               |  |  |  |  |  |  |
| MEAN HIGHER HIGH WATER (MHHW)                     | 9.0/11.0                                |  |  |  |  |  |  |
| MEAN HIGH WATER (MHW)                             | 8.1/10.1                                |  |  |  |  |  |  |
| MEAN SEA LEVEL (MSL)                              | 4.4/6.4                                 |  |  |  |  |  |  |
| MEAN LOW WATER (MLW)                              | 0.7/2.7                                 |  |  |  |  |  |  |
| NORTH AMERICAN VERTICAL DATUM<br>OF 1988 (NAVD88) | 0/2.0                                   |  |  |  |  |  |  |
| MEAN LOWER LOW WATER (MLLW)                       | -2.0/0                                  |  |  |  |  |  |  |

- A. TIDAL DATUMS AND CONVERSIONS BETWEEN MLLW AND NAVD88 DATUM AT THE SITE TAKEN FROM THE NATION OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM (http://vdatum.noaa.gov/). THE PROJECT SITE IS LOCATED ABOUT HALFWAY BETWEEN TIDAL BENCHMARKS IN SEATTLE (NO. 9447130) AND EVERETT (NO. 9447659).
- TO CONVERT TO ELEVATIONS RELATIVE TO MLLW (2015), ADD 2.0 FEET TO ELEVATIONS IN NAVD88 DATUM. SEA LEVEL RISE ESTIMATES ARE TAKEN FROM NRC (2012) AND ARE MID-RANGE ESTIMATES FOR EACH

SCALE: 1" = 10'

#### **DETAIL AND SECTION REFERENCING:**



TARGET YEAR: 2030 (0.3 FOOT), 2050 (0.7 FOOT) AND 2100 (2.1 FEET).

### SECTION 5, TOWNSHIP 27 N., RANGE 4 E

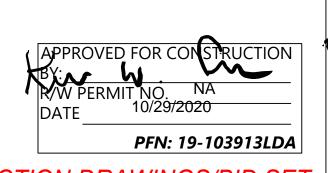
#### **GENERAL CONSTRUCTION NOTES:**

- THIS PROJECT INCLUDES WORK WITHIN BNSF RIGHT-OF-WAY AND ON PARK PROPERTY TO CONSTRUCT A RAILROAD BRIDGE OVER LUNDS GULCH CREEK. WORK TO BE PERFORMED IS SHOWN ON THE "MEADOWDALE BEACH PARK AND ESTUARY DESIGN PLANS" BY ANCHOR QEA AND ON THE "MEADOWDALE BEACH RAILROAD BRIDGE - CIVIL PLANS" AND THE "MEADOWDALE BEACH RAILROAD BRIDGE - STRUCTURAL PLANS" PREPARED BY HANSON PROFESSIONAL SERVICES.
- ALL WORK SHOWN WITHIN THIS SET OF PLANS BY ANCHOR QEA AND THE RAILROAD BRIDGE CIVIL PLANS SHALL BE ACCOMPLISHED BY THE CONTRACTOR UNDER CONTRACT WITH SNOHOMISH COUNTY UNLESS OTHERWISE SPECIFIED. WORK PROPOSED ON THE RAILROAD BRIDGE STRUCTURAL PLANS SHALL BE RESPONSIBILITY OF BNSF OR THEIR DESIGNATED CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE PLANS WITH RAILROAD BRIDGE WORK SHOWN ON THE RAILROAD BRIDGE STRUCTURAL AND CIVIL PLANS. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL DETAIL ON COORDINATION OF WORK.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CURRENT SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS, THE CITY OF EDMONDS COMMUNITY DEVELOPMENT CODE, THE SNOHOMISH COUNTY DRAINAGE MANUAL, THE CITY OF EDMONDS STORMWATER MANAGEMENT CODE. THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION), AND OTHER APPLICABLE CODES AND STANDARDS.
- THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED DRAWINGS, APPLICABLE SNOHOMISH COUNTY AND CITY OF EDMONDS STANDARDS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION) ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR VERIFYING FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THE DRAWINGS OR ANY INCONSISTENCIES OR AMBIGUITIES BETWEEN THE DRAWINGS AND OTHER CONTRACT DOCUMENTS SHALL BE REPORTED IN WRITING TO THE OWNER (SNOHOMISH COUNTY) PRIOR TO PROCEEDING WITH THE WORK. WORK DONE BY THE CONTRACTOR INVOLVING SUCH DISCREPANCIES WITHOUT A WRITTEN REPORT AND RESPONSE FROM THE OWNER SHALL BE DONE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY CUT SLOPES AND SHORING IN AGREEMENT WITH THE GEOTECHNICAL REPORT AS NECESSARY FOR THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS. THE STABILITY OF ALL TEMPORARY SLOPES AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
- 11. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING STRUCTURES, SIGNS, FENCES, GATES, CURBS, ROADWAYS, DRAINAGE WAYS, CULVERTS, VEGETATION, AND OTHER IMPROVEMENTS UNLESS AND UNTIL SUCH ITEMS ARE TO BE DISTURBED OR REMOVED AS INDICATED ON THE DRAWINGS. IF SUCH ITEMS ARE DAMAGED OR NEED TO BE REMOVED OR MODIFIED TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL FIRST NOTIFY SNOHOMISH COUNTY AND THEN REPLACE OR REPAIR THE ITEMS TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF SNOHOMISH COUNTY.
- THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY EXISTING SURVEY MONUMENT OR BENCHMARK. ANY SURVEY MONUMENT OR BENCHMARK DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AS DIRECTED BY SNOHOMISH COUNTY AT THE CONTRACTOR'S SOLE EXPENSE. ACCESS TO THE RANGER RESIDENCE SHALL REQUIRE 1 WEEK (MIN.) ADVANCE WRITTEN NOTICE AND WRITTEN APPROVAL BY SNOHOMISH COUNTY.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO THE RANGER RESIDENCE THROUGHOUT CONSTRUCTION OF THE PROJECT. ANY TEMPORARY DISRUPTION OF ACCESS TO THE RANGER RESIDENCE SHALL REQUIRE 1 WEEK (MIN.) ADVANCE WRITTEN NOTICE AND WRITTEN APPROVAL BY SNOHOMISH COUNTY.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED. THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- THE DETAILS AND NOTES PROVIDED ON THE DRAWINGS AND IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- DIMENSION CALL-OUTS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE CONTRACT DOCUMENTS.
- 17. ALL MATERIALS SHALL BE NEW AND UNDAMAGED, UNLESS OTHERWISE APPROVED BY SNOHOMISH COUNTY AND THE ENGINEER. THE SAME MANUFACTURER OF EACH ITEM SHALL BE USED THROUGHOUT THE WORK UNLESS OTHERWISE APPROVED BY SNOHOMISH COUNTY AND THE ENGINEER.

- 18. RUBBISH, DEBRIS, AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF LEGALLY, AS ALLOWED BY THE SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION).
- 19. THE CONTRACTOR SHALL MAINTAIN HAND DRAWN REDLINES, FIELD NOTES AND PHOTOGRAPHS ("FIELD DOCUMENTATION") OF ALL IMPROVEMENTS AS THE WORK PROGRESSES, AS REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO TAKE PHOTOGRAPHS AND VIDEO TO DOCUMENT CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR'S FIELD DOCUMENTATION SHALL BE MAINTAINED ON SITE AND SHALL BE AVAILABLE FOR REVIEW BY SNOHOMISH COUNTY AND THE ENGINEER AT ALL TIMES.

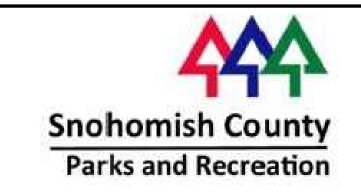
#### **EXISTING UTILITY NOTES:**

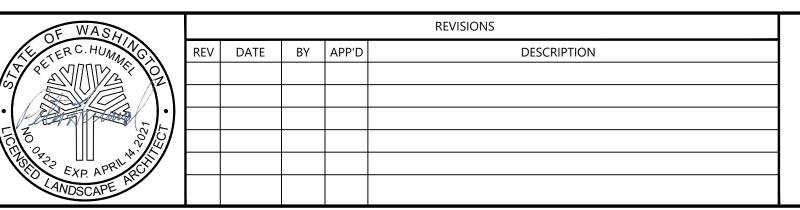
- 1. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON SURVEYED UTILITY MARKINGS AND FEATURES VISIBLE AT THE SURFACE, SUPPLEMENTED BY AS-BUILT INFORMATION PROVIDED BY SNOHOMISH COUNTY.
- ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION PROTECTION, INSTALLATION, AND RELOCATION OF UTILITIES SHALL COMPLY WITH BNSF'S UTILITY ACCOMMODATION MANUAL (HTTP://WWW.BNSF.COM/COMMUNITIES/FAQS/PDF/UTILITY.PDF).
- FOR ALL WORK OUTSIDE OF THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL THE UTILITY LOCATION REQUEST CENTER (ONE-CALL CENTER) AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE THE SCHEDULED DATE FOR TRENCHING OR EARTHWORK THAT MAY IMPACT EXISTING UTILITIES.
- THE SIZE, LOCATION, AND TYPE OF UNDERGROUND UTILITIES EXPOSED OR MODIFIED BY THE CONTRACTOR SHALL BE ACCURATELY NOTED AND PLACED ON THE CONTRACTOR'S RECORD DRAWINGS.
- THE CONDITION OF ALL ABANDONED UTILITIES THAT INTERFERE WITH EXECUTION OF THE WORK SHALL BE VERIFIED BY THE UTILITY OWNER PRIOR TO DISTURBANCE OR MODIFICATION. THE CONTRACTOR MAY ONLY TAKE ACTION AFTER WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE UTILITY OWNER BY THE SNOHOMISH COUNTY.
- THE CONTRACTOR SHALL ENSURE THAT OPERATIONS OF EXISTING SEWER, WATER, POWER, TELECOMMUNICATIONS, AND OTHER UTILITY SYSTEMS SERVING THE RANGER RESIDENCE ARE NOT DISRUPTED DURING CONSTRUCTION UNLESS NECESSARY FOR UTILITY WORK SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH 1 WEEK MIN. ADVANCE WRITTEN NOTICE OF ANY NECESSARY DISRUPTION TO SERVICES AND SHUT DOWN SHALL REQUIRE WRITTEN APPROVAL BY SNOHOMISH COUNTY.



100% CONSTRUCTION DRAWINGS/BID SET

720 Olive Way | Suite 1900 | Seattle, WA 98101





DESIGNED BY: PH DRAWN BY: CH/TG CHECKED BY: DR APPROVED BY: PH SCALE: AS NOTED

DATE: SEPTEMBER 2020

MEADOWDALE BEACH PARK AND ESTUARY DESIGN PFN 19-103913LDA

**G**-3

**GENERAL NOTES** 

SHEET # **2A**OF **81** 

#### **LEGAL DESCRIPTION:**

#### PARCEL A (270405-002-001-00 AND 270405-002-002-00)

#### 270405-002-001-00

ALL THAT PART OF GOVERNMENT LOT 2 AND SOUTHEAST QUARTER OF THE NORTHWEST QUARTER SECTION 5, TOWNSHIP 27 NORTH, RANGE 4 EAST OF WILLIAMETTE MERIDIAN, EMBRACED WITHIN PLAT OF LUND'S MEADOWDALE TRACTS AND MARKED JOHN C LUND'S RESERVE;

TOGETHER WITH THE NORTH HALF OF PLATTED VACATED UNNAMED STREET AS WOULD ATTACH BY OPERATION OF LAW VACATED PURSUANT TO CITY OF EDMONDS ORDINANCE NUMBERS 3197 AND 3198 AND RECORDED NDER AUDITOR'S FILE NO. 9806030191 AND 9806030192.

ALSO TRACT "A", LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLAT THEREOF INVOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY;

ALSO TRACTS 15 AND 17, LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

ALSO ALL THAT PORTION OF TRACTS 47, 48, 49 AND 50, LYING SOUTH OF THE SOUTH LINE OF THE NORTH 300 FEET OF SAID TRACTS, LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

ALSO ALL THAT PORTION OF TRACT 51, LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLATE THEREOF RECORDED IN VOLUME 6, PAGE 25, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

ALSO ALL THAT PORTION OF TRACT 52, LUND'S MEADOWDALE TRACTS, ACCORTING TO THE PLAT THEREOF RECORDED IN VOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID TRACT 52;

THENCE NORTH 0°07'48" WEST ALONG THE EAST LINE OF SAID TRACT 52 FOR 227.42 FEET;

THENCE WEST FOR 309.75 FEET TO AN INTERSECTION WITH THE WEST LINE OF SAID TRACT 52;

THENCE SOUTH 0°07'48" EAST ALONG THE WEST LINE OF SAID TRACT 52 FOR 125.00 FEET TO THE SOUTHWEST CORNER THEREOF;

TOGETHER WITH THE WEST HALF OF VACATED 68TH/ AVENUE WEST AS WOULD ATTACH BY OPERATION OF THE LASW PRSUANT TO VACATED GRANTED IN VOLUME 35 OF COMMISIONER'S RECORDS ON PAGE 35.

#### 270405-002-002-00

TOGETHER WITH TIDELANDS OF THE SECOND CLASS SITUATE IN FRONT OF, ADJACENT TO OR ABUTTING UPON THAT PORTION GOVERNMENT LOT 2 OF SAID SECTION 5, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MEANDER CORNER ON THE NORTH LINE OF SAID SECTION 5;

THENCE SOUTH 37°15'WEST 1.50 CHAINS;

THENCE SOUTH 15°30' WEST 6.70 CHAINS;

THENCE SOUTH 23°00' WEST 11.00 CHAINS TO THE TRUE POINT OF THE BEGINNING OF THIS DESCRIPTION;

SOUTH 17°00' EAST 7.00 CHAINS TO THE TERMINAL POINT OF DESRIPTION.

#### PARCEL B (005009-000-005-00)

TRACTS 5, 8, 9, 12 AND 13, LUND'S MEADOWDALE TRACTS, ACCORDING TO PLAT THEREOF RECORDED IN VOLUME 6, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON;

TOGHERTHER WITH THAT PORTION OF PLATTED RIGHT-OF-WAY OF 75TH/ AVENUE WEST AS WOULD ATTACH BY OPERATION OF LAW PURSUANT TO CITY OF EDMONDS ORDINANCE NO. 3203 RECORDED UNDER AUDITOR'S FILE NO. 9806030197, AND

TOGETHER WITH THAT PORTION OF THE WEST HALF OF VACATED 73RD/ AVENUE WEST VACATED PURSUANT TO CITY OF EDMONDDS ORDINANCE NO. 3201 RECORDED UNDER AUDITOR'S FILE NO. 9806030195; AND

TOGETHER WITH THE SOUTH HALF OF PLATTED LUND'S GULCH ROAD AS WOULD ATTACH TO TRACT 13 PURSUANT TO CITY OF EDMONDS ORDINANCE NO. 3197 RECORDED UNDER AUDITOR'S FILE O. 9806030191.

TRACTS 11 AND 14 LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON;

TOGETHER WITH THE EAST HALFOF VACATED 73RD/ AVENUE WEST AS WOUD ATTACH BY OPERATION OF LAW VACATED PURSUANT TO EDMONDS CITY ORDINANCE NO. 3201 RECORDED UNDER AUDITOR'S FILE NO. 9806030195;

TOGETHER WITH THE WEST HALF OF VACATED 72ND/ AVENUE WEST AS WOULD ATTACH BY OPERATION OF EDMONDS ORDINANCE NO. 3199 ECORDED UNDER AUDITIOR'S FILE NO. 9805030193; AND

TOGETHER WITH THE SOUTH HALF OF PLATTED RIGHT-OF-WAY OF LUND'S GULCH ROAD AS WOULD ATTACH BY OPERATION OF LAW VACATED BY CITY OF EDMONDS ORDINANCE NO. 3197 RECORDED UNER AUDITOR'S FILE NO. 9806030191.

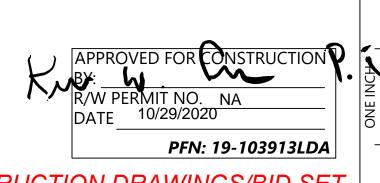
TRACTS 53, 54,55 AND 56, LUND'S MEADOWDALE TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 6 OF PLATS, PAGE 26, RECORDS OF SNOHOMISH COUNTY, WASHINGTON;

TOGETHER WITH THE WEST HALF OF VACATED 72ND/ AVENUE WEST AS WOULD ATTACG TOI TRACT 56 BY OPERATION OF LAW VACATED PURSUANT TO EDMONDS CITE ORDINANCE NO. 3199 RECORDED UNDER AUDITOR'S FILE NO. 9806030193;

TOGETHER WITH THE SOUTH HALF OF PLATTED RIGHT-OF-WAY KNOWN AS LUND'S GULCH ROAD AS WOULD ATTACH TO TRACTS 56, 55 AND 54 BY OPERATION OF LAW VACATED PURSUANT TO CITY OF EDMONDS ORDINANCE NO. 3198 RECORDED UNDER AUDITOR'S FILE NO. 9806030192; AND

TOGETHER WITH THE NORTH HALF OF VACATED 156TH/ STREET SW AS WOULD ATTACH TO TRACTS 54 AND 53, VACATED PURSUANT TO EDMONDS CITY ORDINANCE NO. 3205 RECORDED UNDER AUDITOR'S FILE NO. 9806030199.

ALL SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.



100% CONSTRUCTION DRAWINGS/BID SET





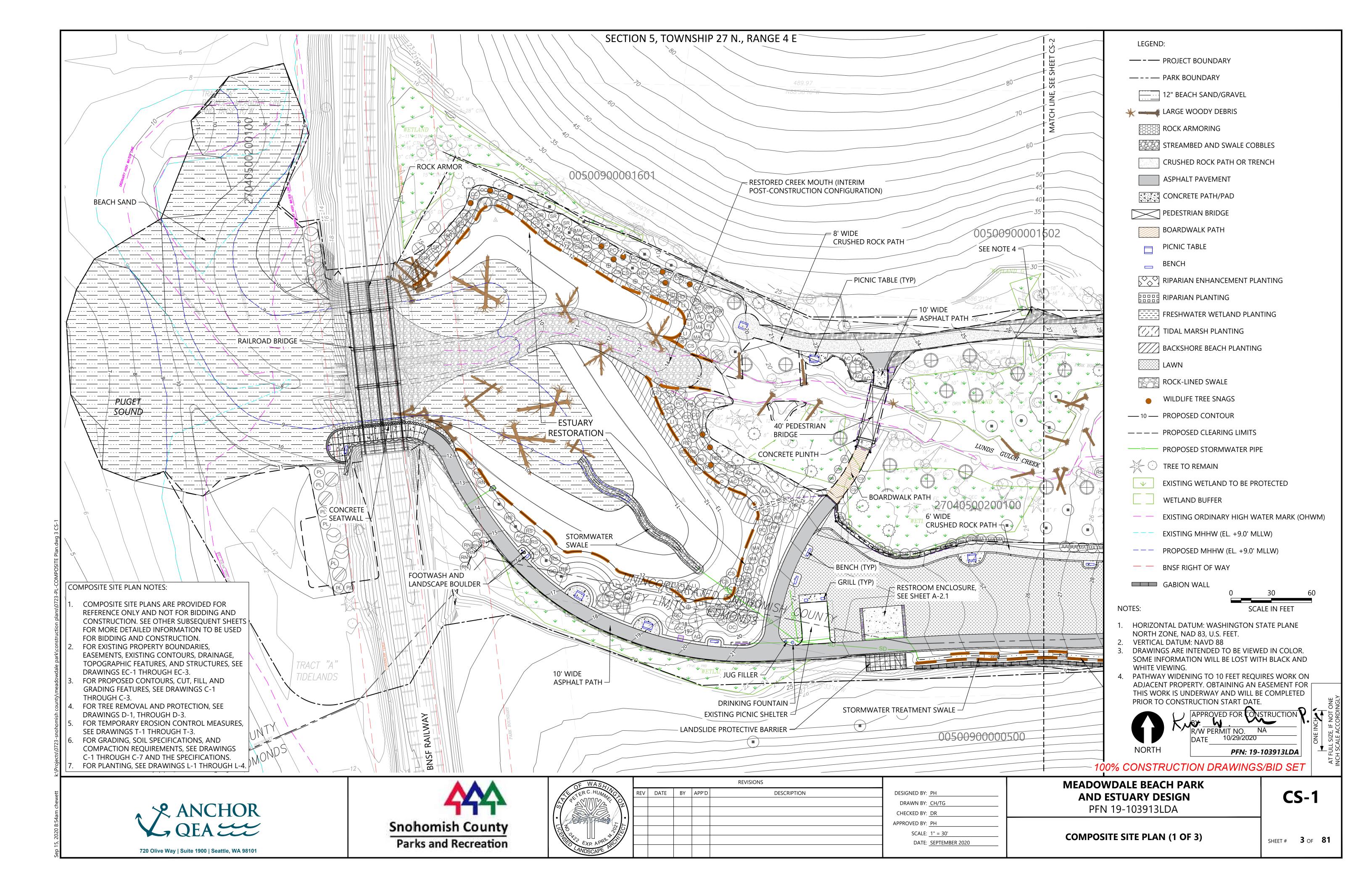
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|---------------|-----|------|----|-------|-------------|----|
| TER C. HUMMES | REV | DATE | BY | APP'D | DESCRIPTION | Al |

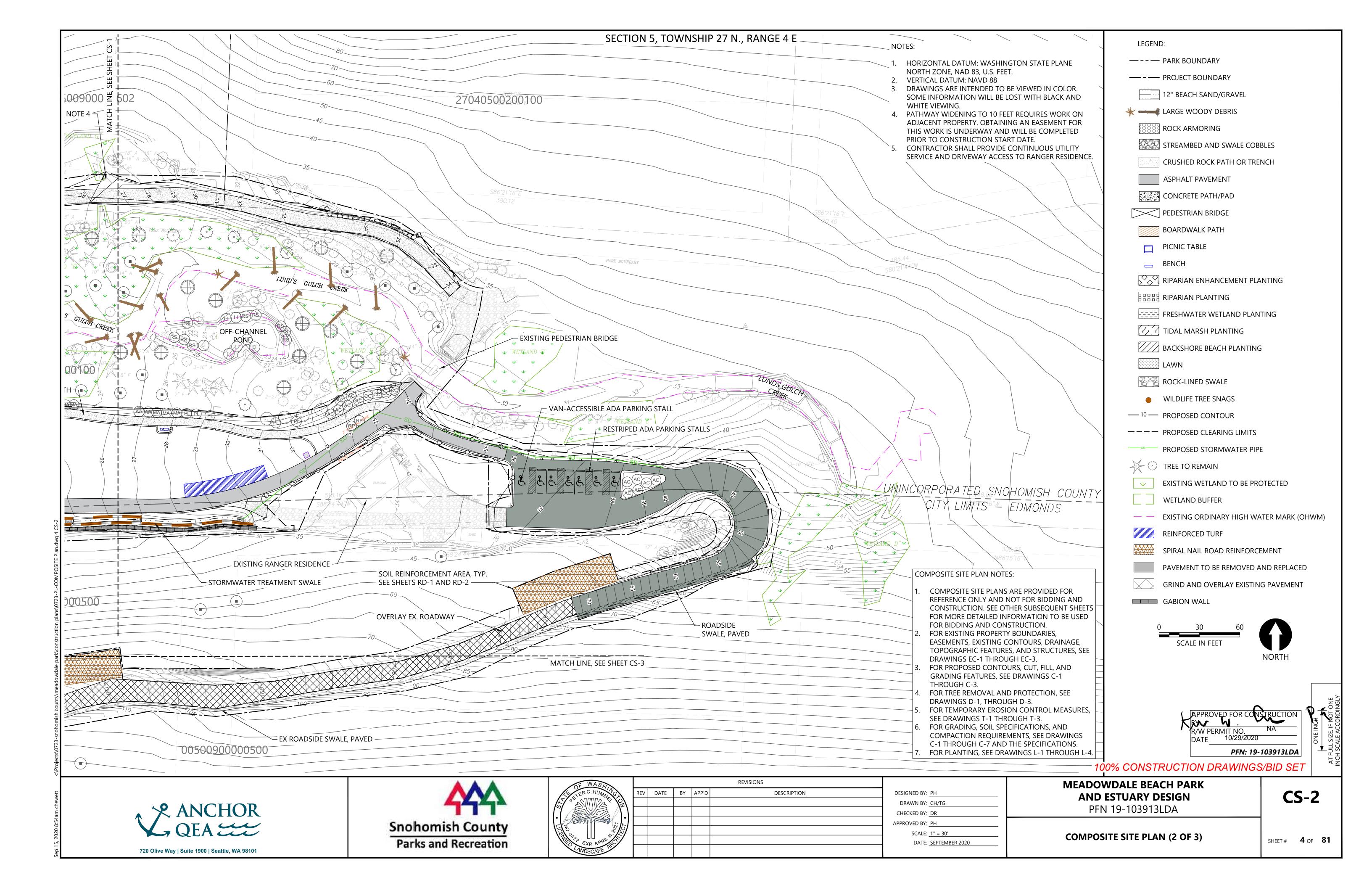
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|--------------|----------------|--|
| DRAWN BY:    | CH/TG          |  |
| CHECKED BY:  | DR             |  |
| APPROVED BY: | PH             |  |
| SCALE:       | AS NOTED       |  |
| DATE:        | SEPTEMBER 2020 |  |

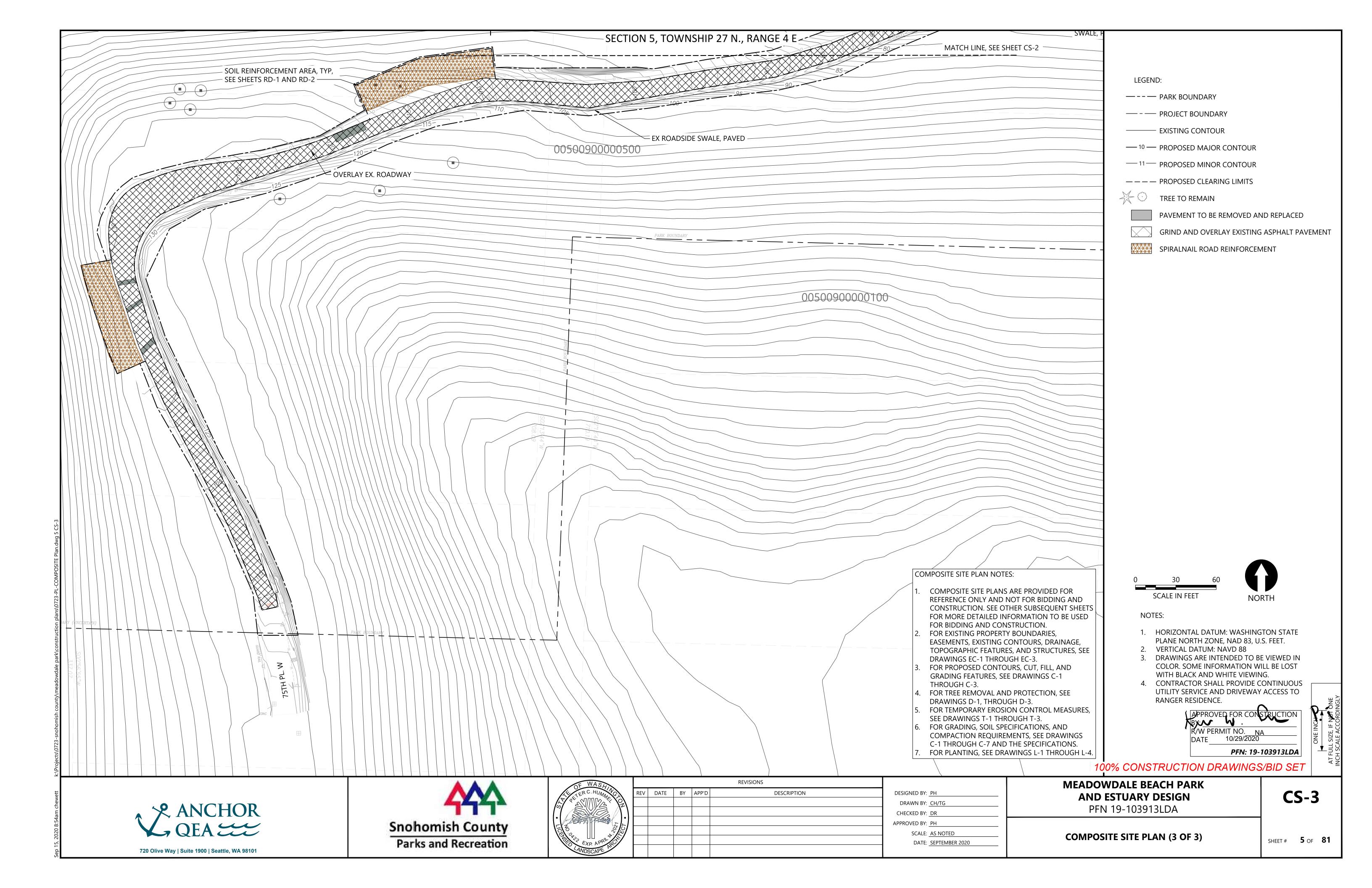
**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** PFN 19-103913LDA

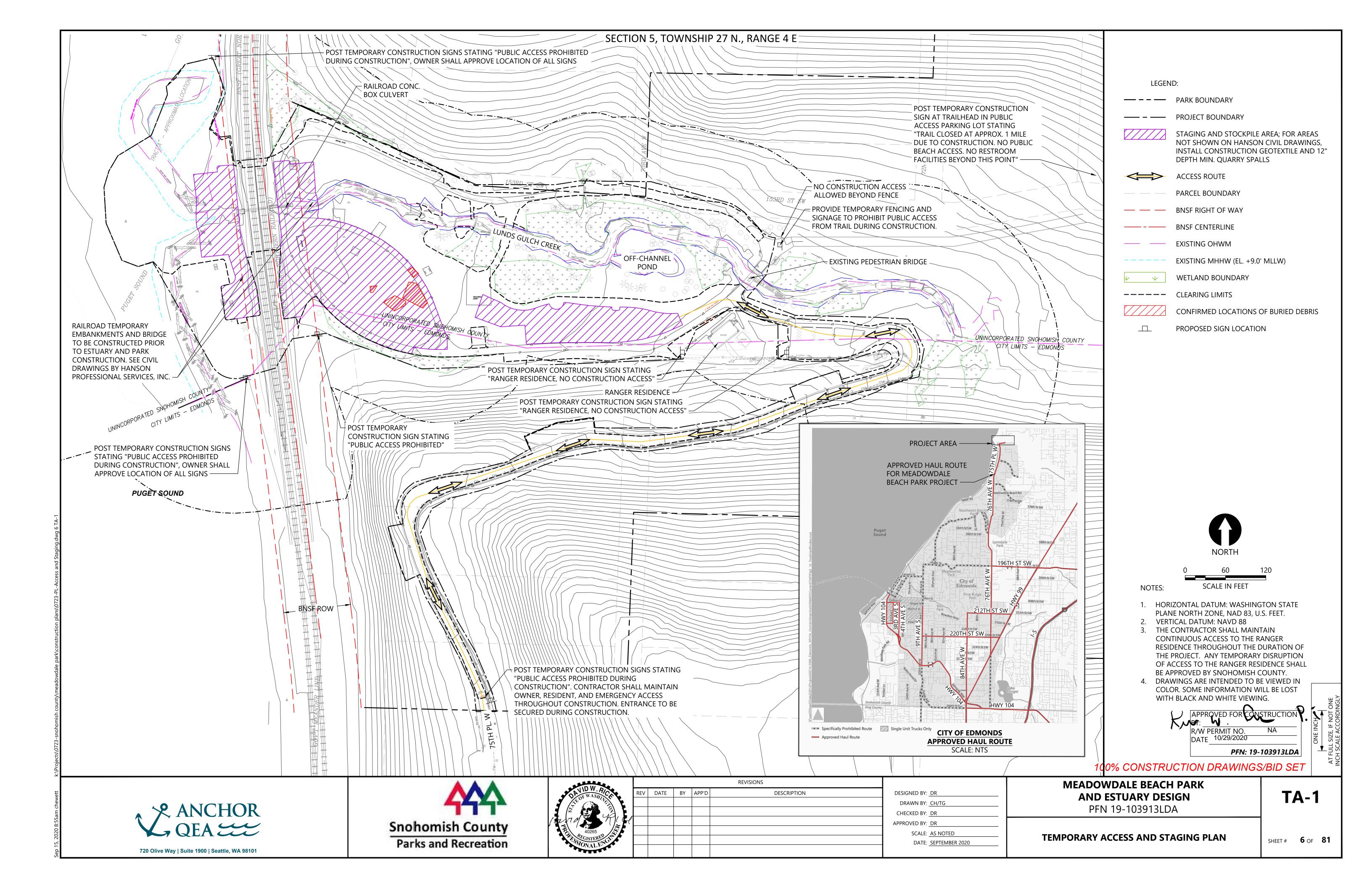
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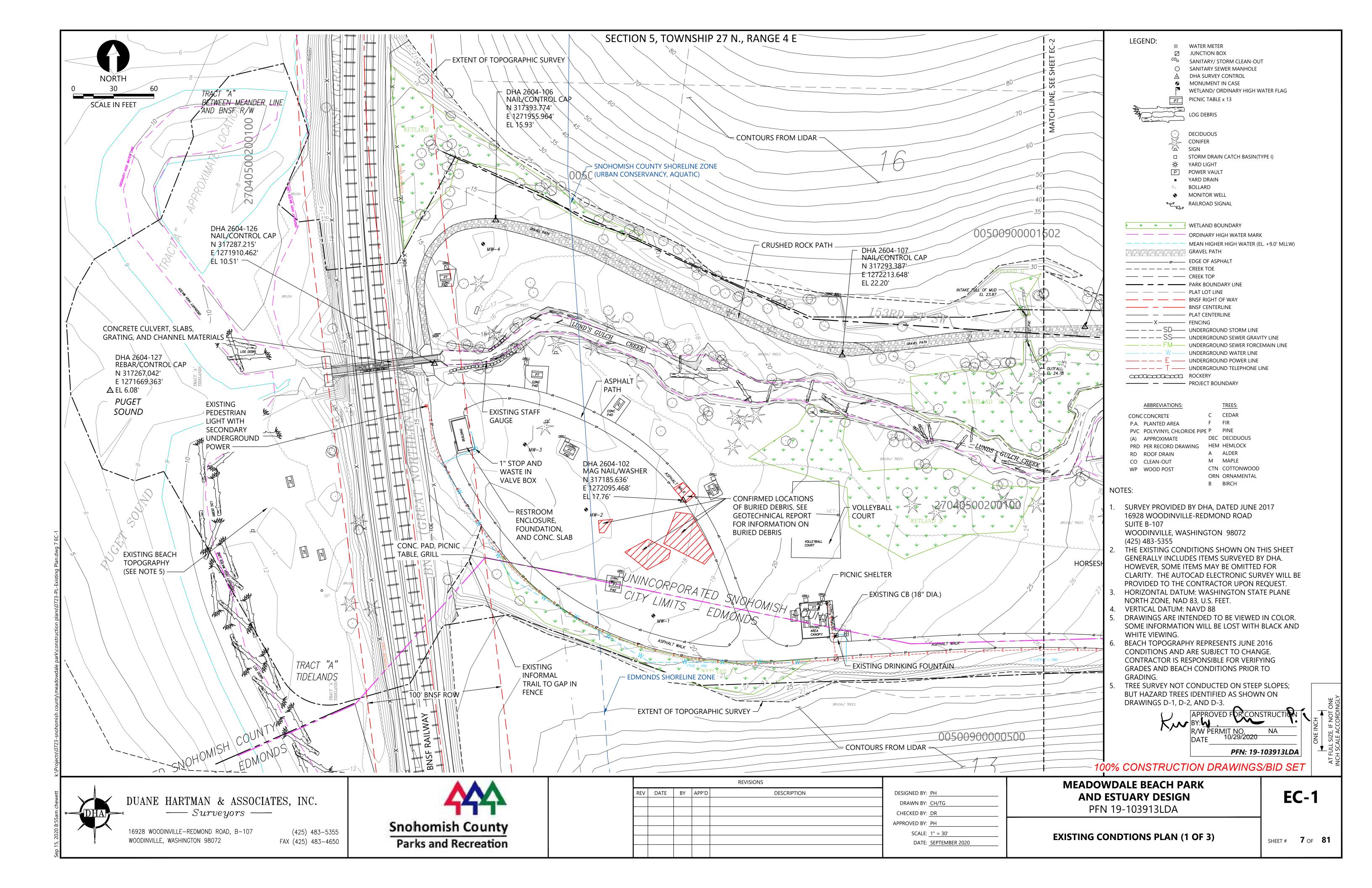
**G-4** 

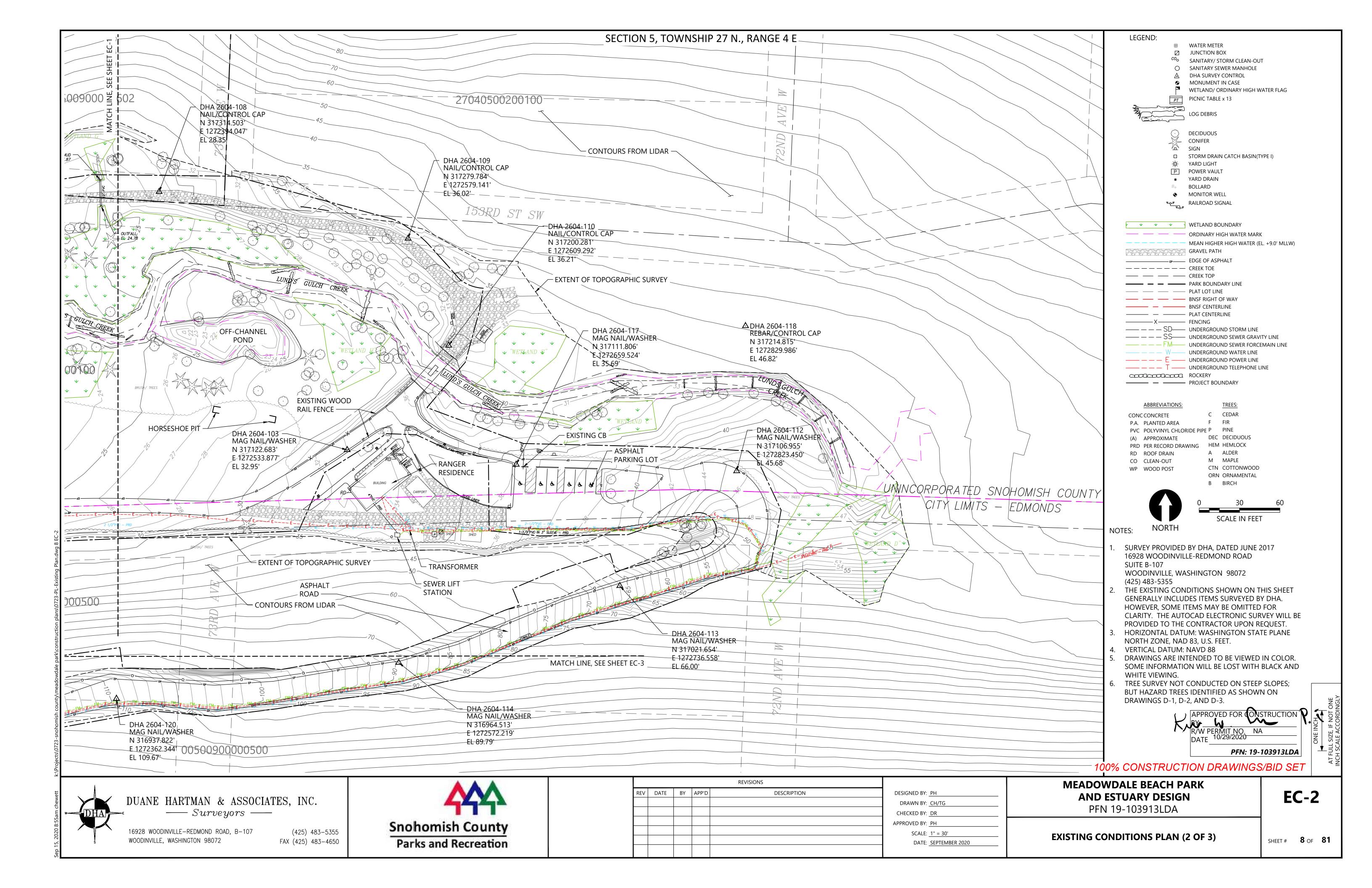


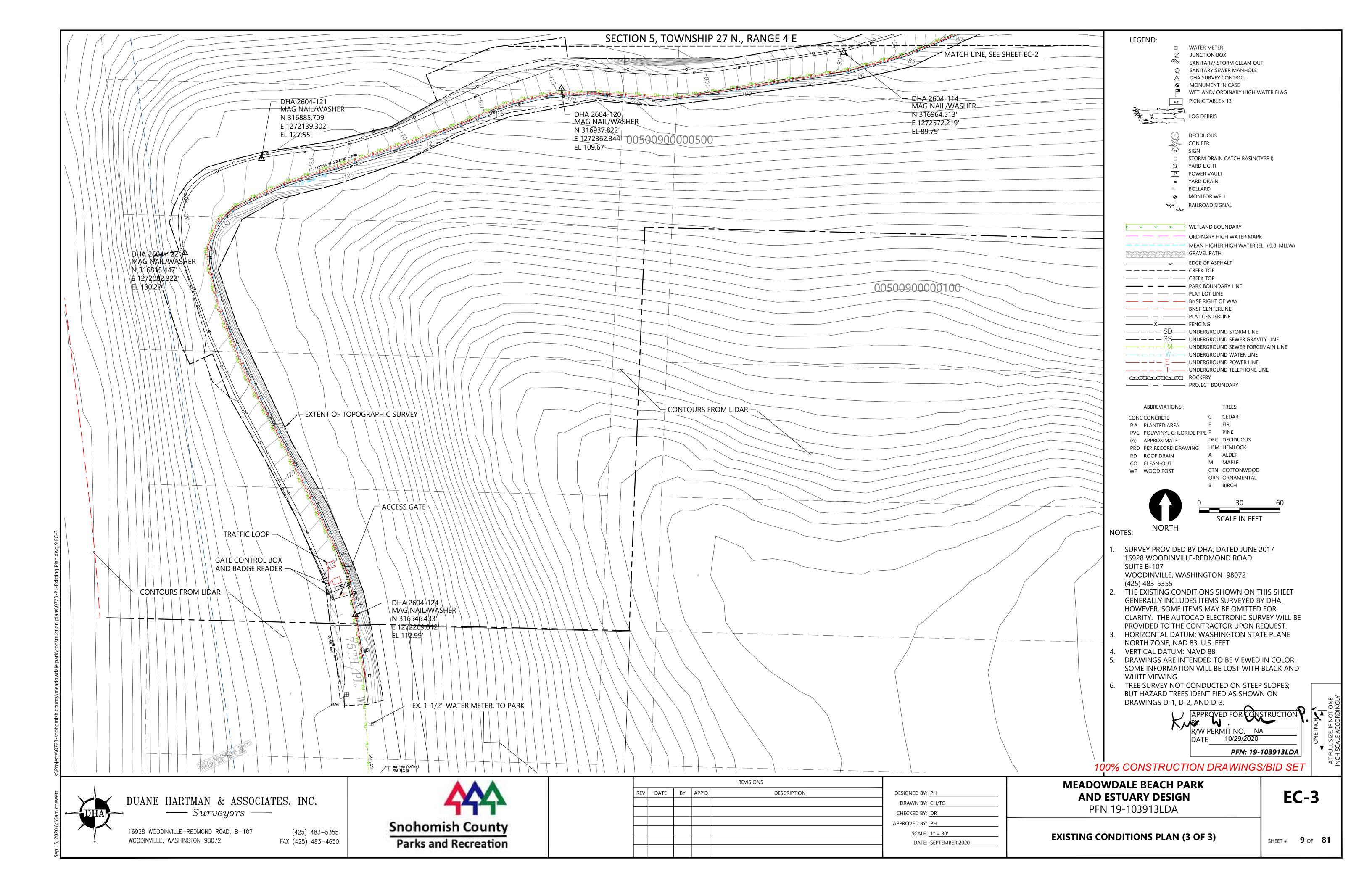


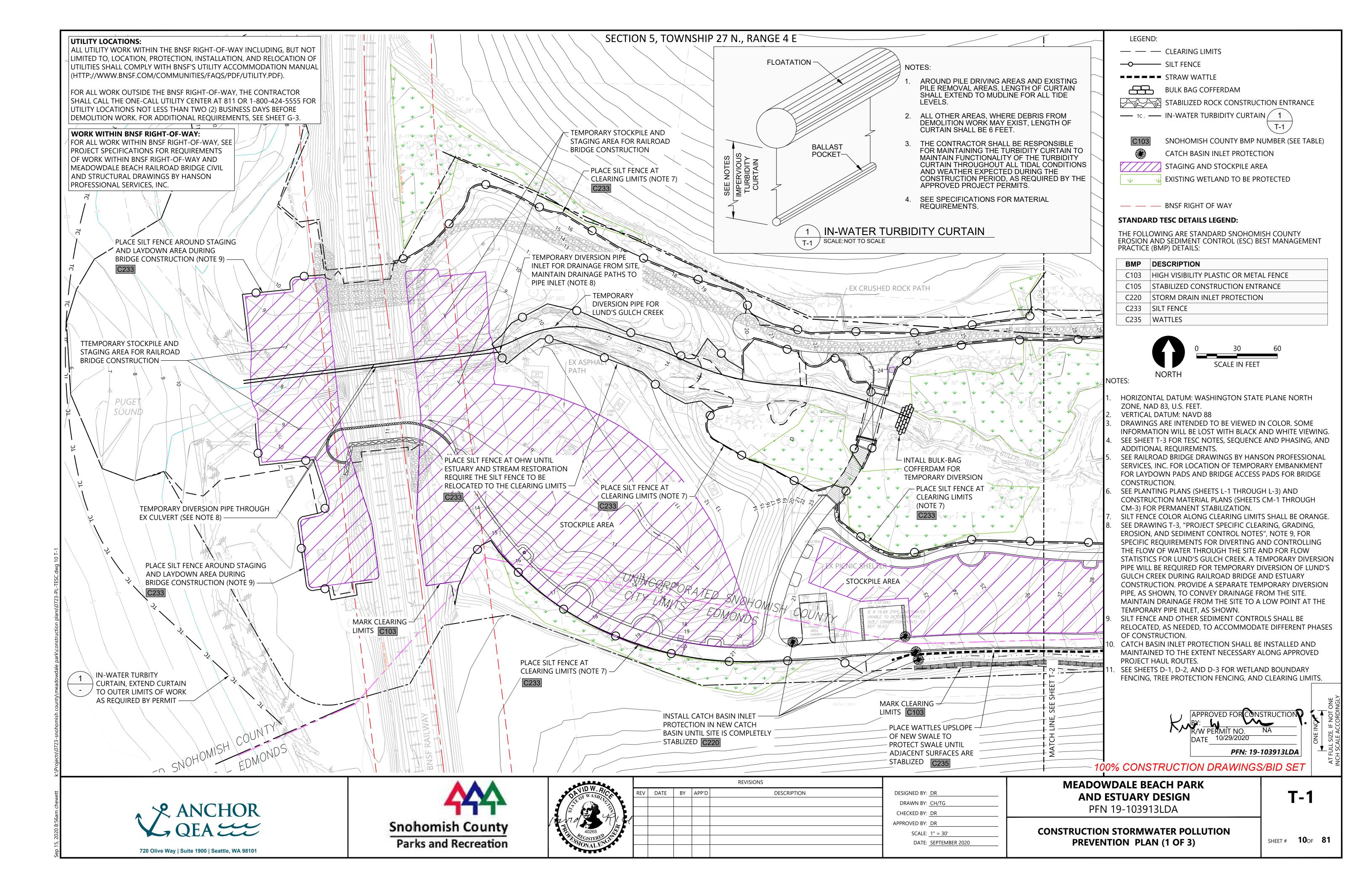


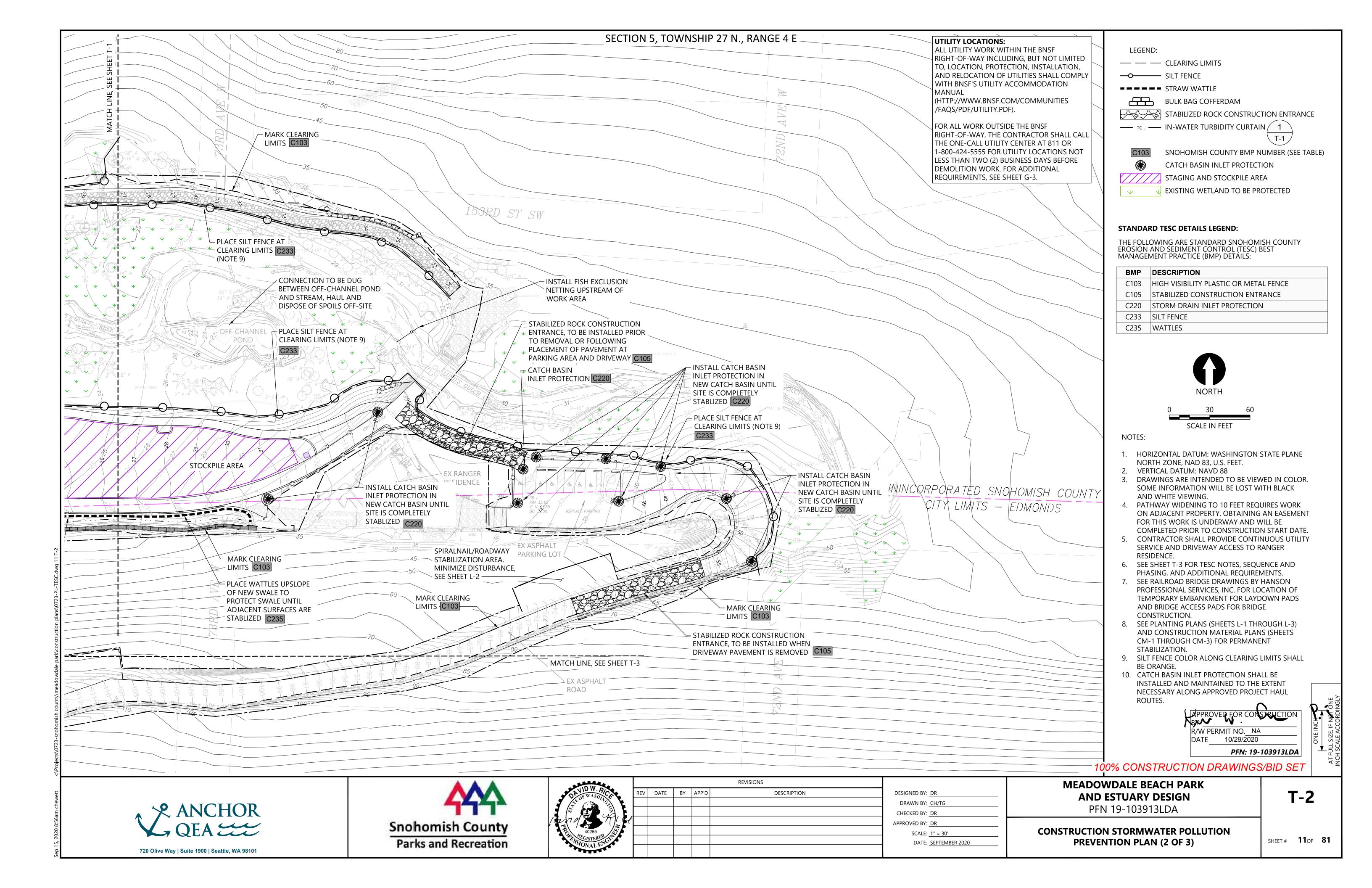


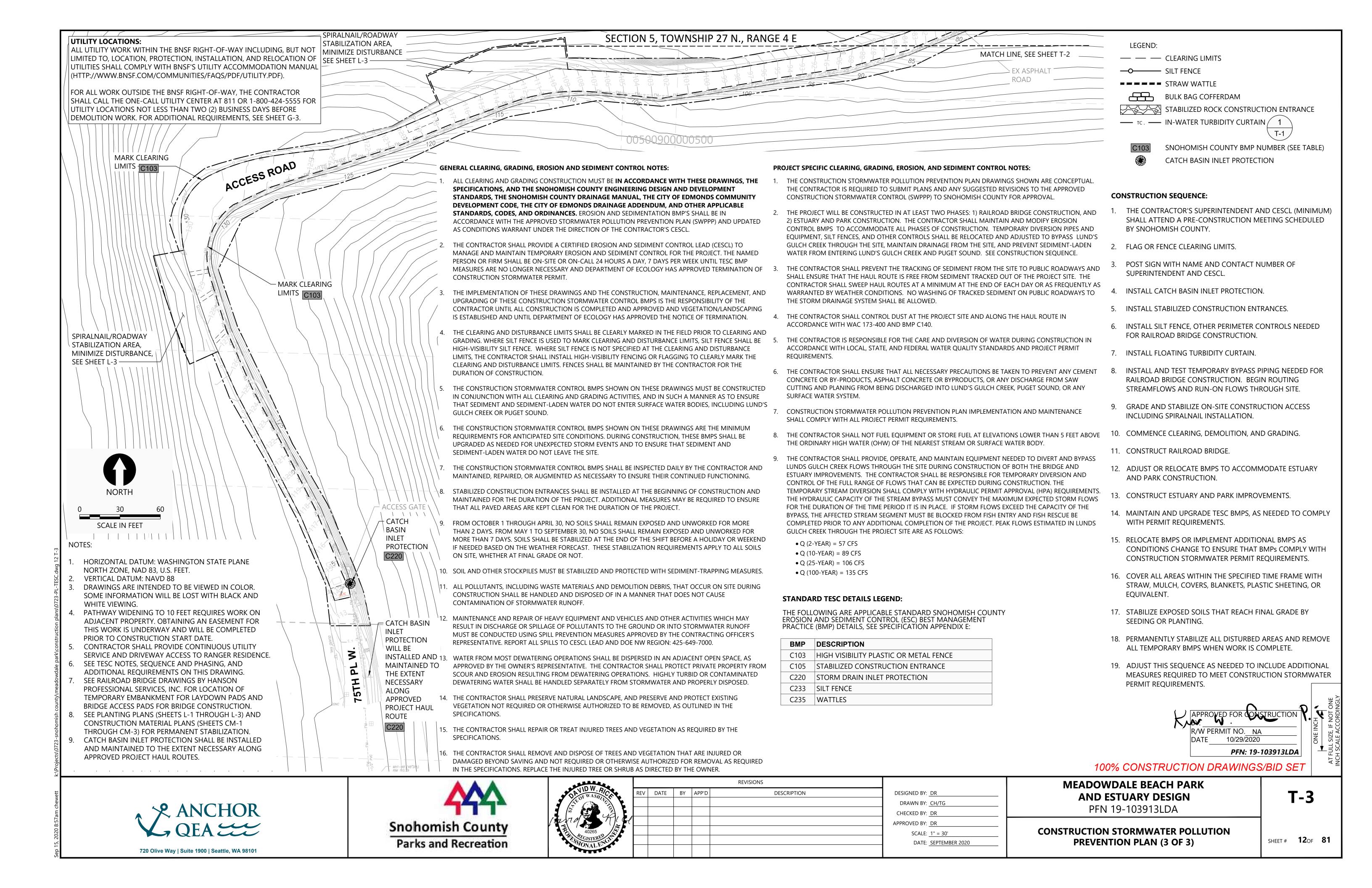


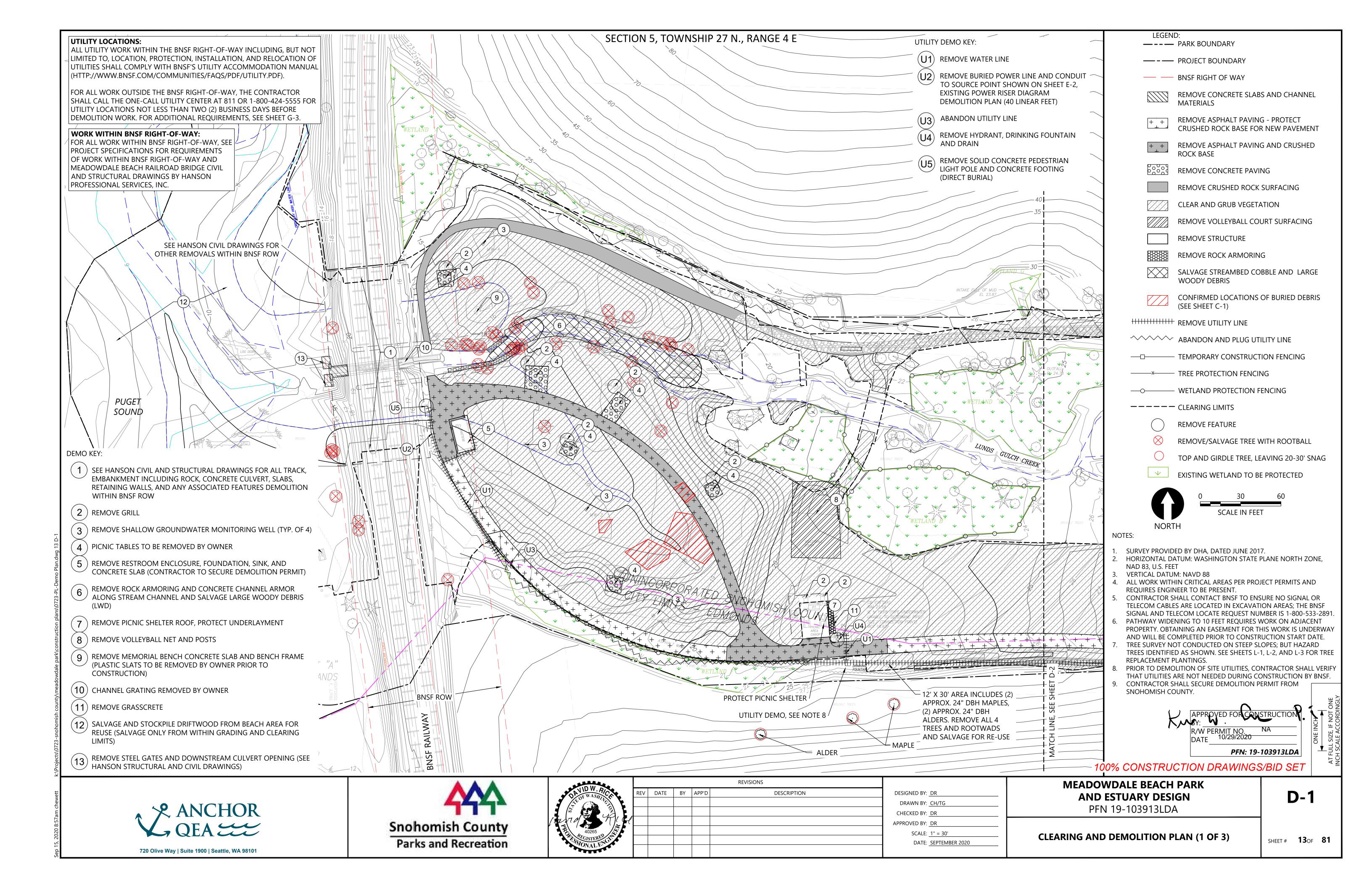


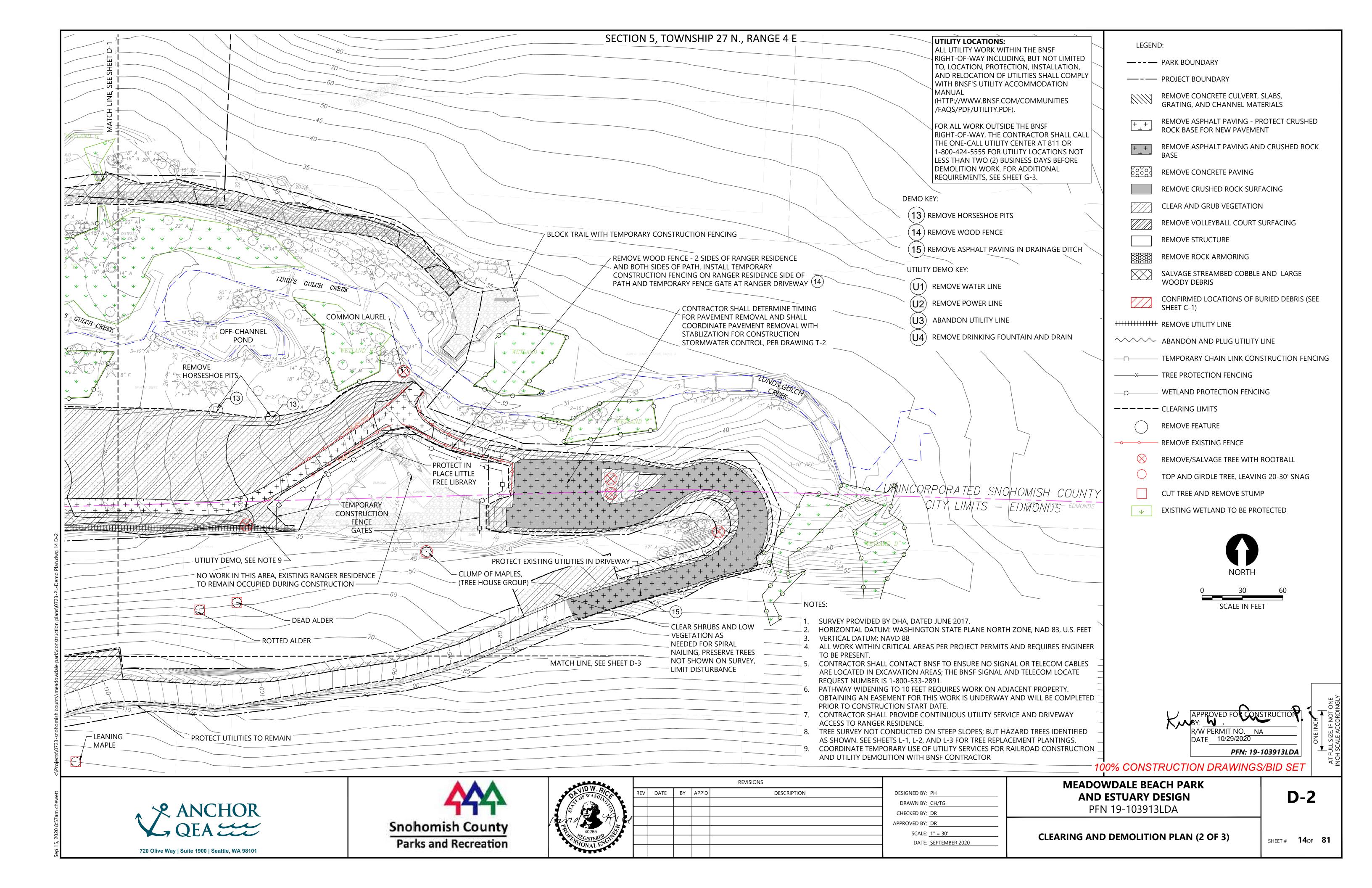


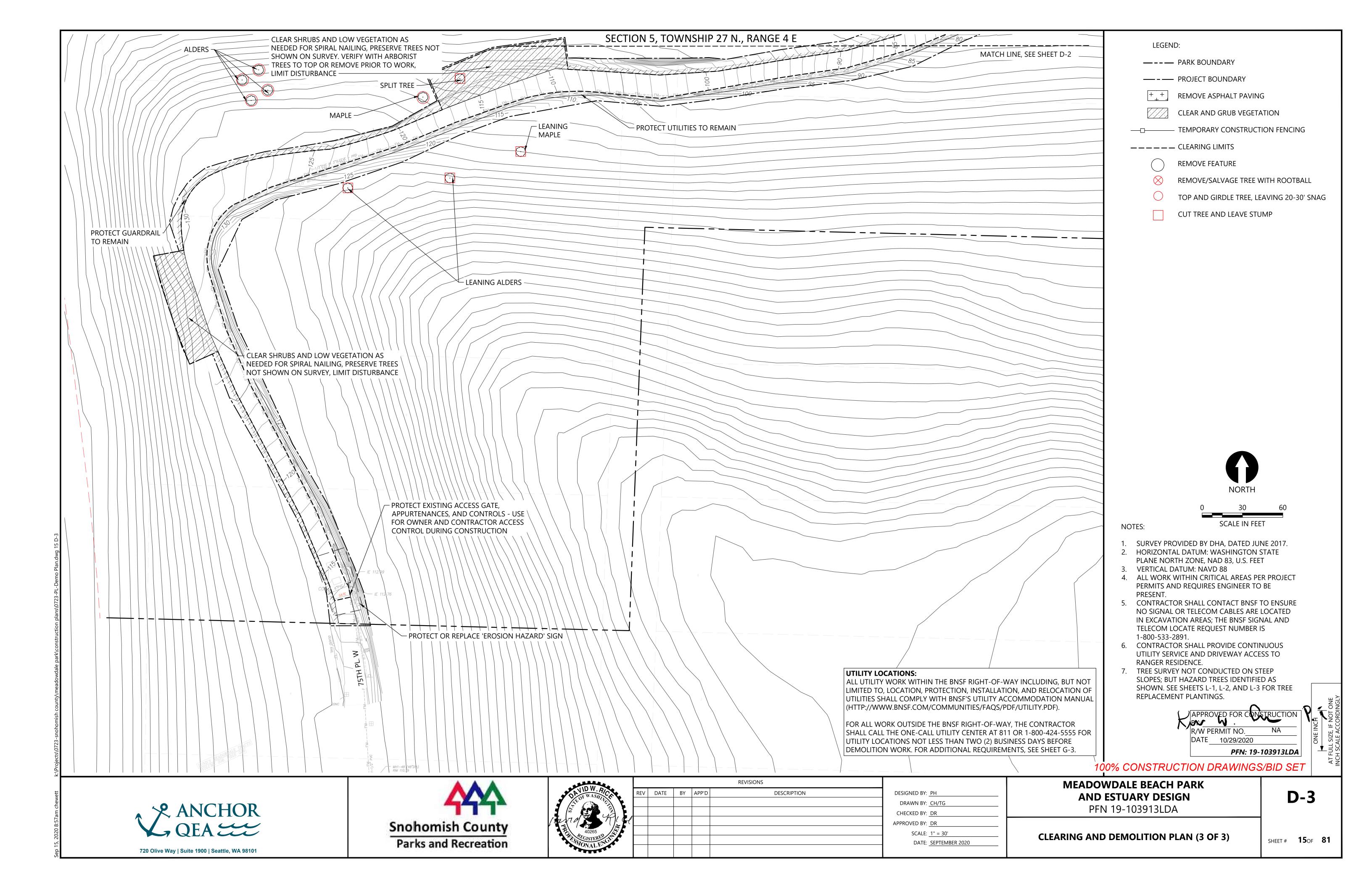


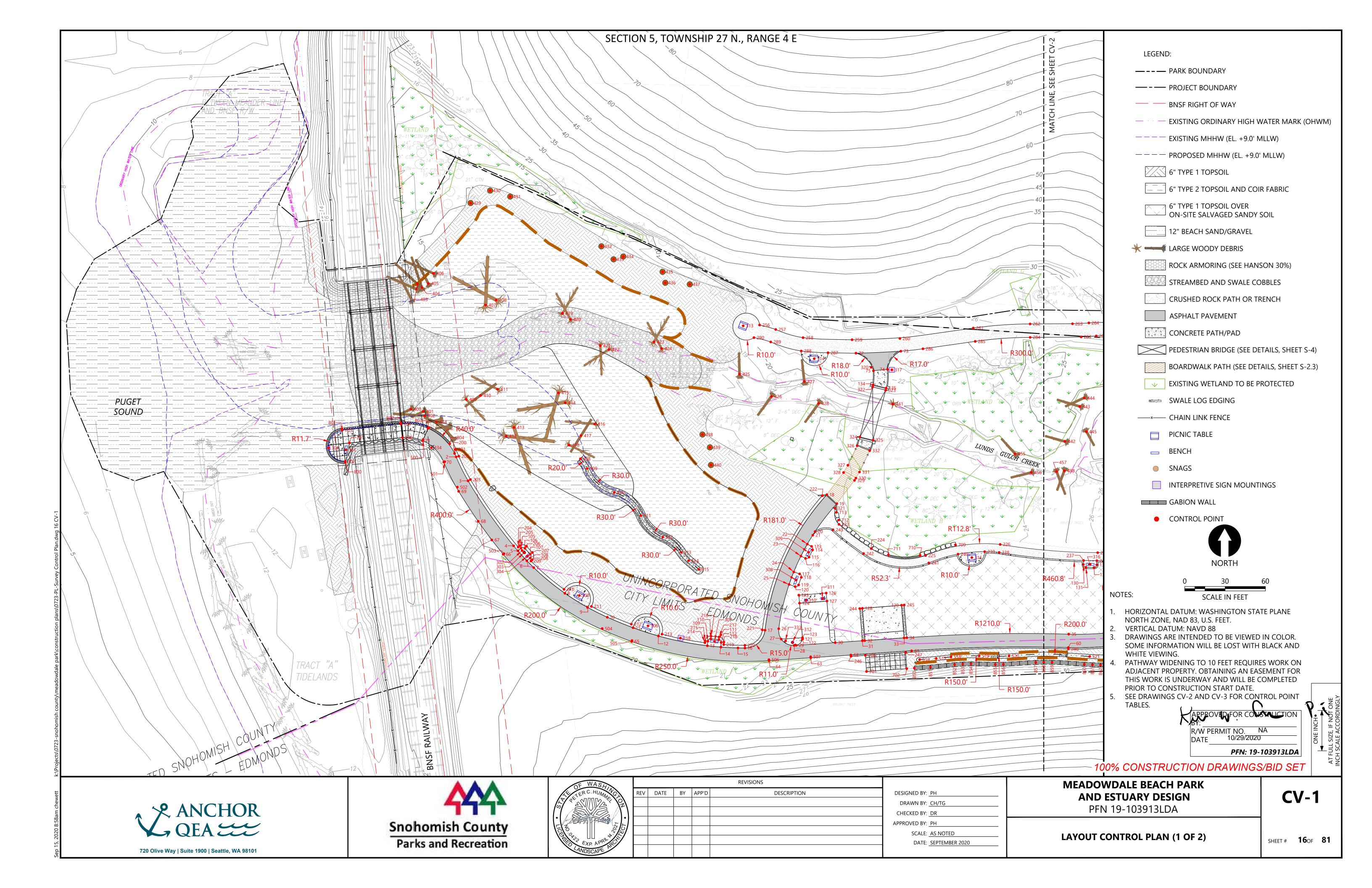


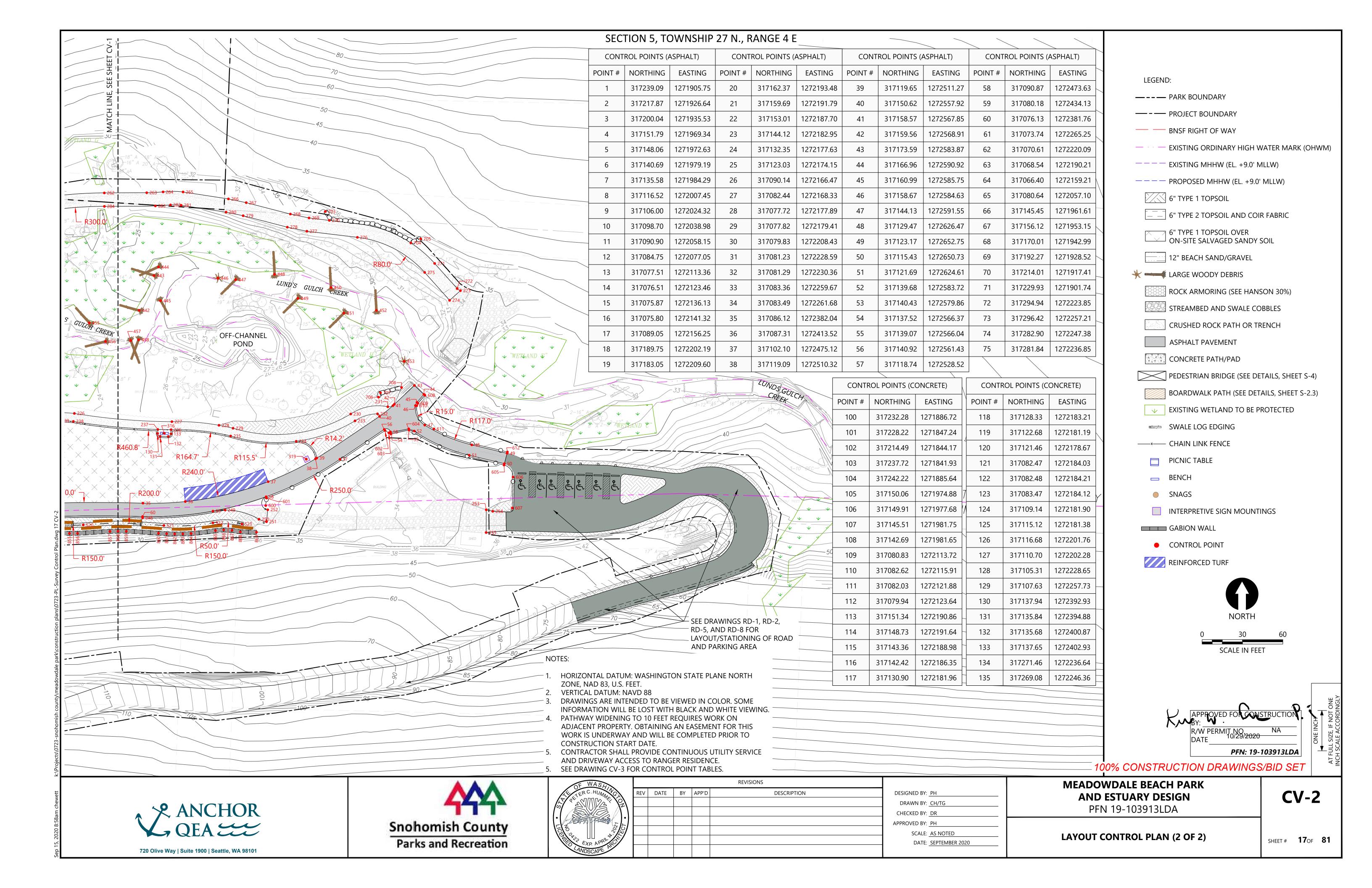












## SECTION 5, TOWNSHIP 27 N., RANGE 4 E

| CONTROL POINTS (CRUSHED ROCK)  CONTROL POINTS (CRUSHED ROCK) |           |            |         |           |            | CONTROL POINTS (CRUSHED ROCK)  CONTROL POINTS (CRUSHED ROCK) |           |            |         |           |            |
|--|-----------|------------|---------|-----------|------------|--|-----------|------------|---------|-----------|------------|
| POINT #  | NORTHING  | EASTING    | POINT # | NORTHING  | EASTING    | POINT #  | NORTHING  | EASTING    | POINT # | NORTHING  | EASTING    |
| 200  | 317220.45 | 1271925.45 | 223     | 317167.73 | 1272211.25 | 246  | 317069.61 | 1272220.16 | 269     | 317298.09 | 1272505.54 |
| 201  | 317223.45 | 1271926.10 | 224     | 317149.70 | 1272235.23 | 247  | 317072.44 | 1272260.81 | 270     | 317296.27 | 1272520.62 |
| 202  | 317218.36 | 1271928.60 | 225     | 317144.54 | 1272275.61 | 248  | 317075.13 | 1272381.77 | 271     | 317264.27 | 1272598.93 |
| 203  | 317201.05 | 1271937.25 | 226     | 317152.80 | 1272331.07 | 249  | 317080.98 | 1272443.12 | 272     | 317245.57 | 1272615.66 |
| 204  | 317150.81 | 1271972.76 | 227     | 317146.69 | 1272403.56 | 250  | 317074.15 | 1272468.30 | 273     | 317244.06 | 1272618.09 |
| 205  | 317151.90 | 1271974.03 | 228     | 317144.00 | 1272438.55 | 251  | 317072.32 | 1272473.89 | 274     | 317236.86 | 1272610.03 |
| 206  | 317151.47 | 1271978.95 | 229     | 317141.79 | 1272449.01 | 252  | 317081.19 | 1272474.81 | 275     | 317257.60 | 1272591.47 |
| 207  | 317146.84 | 1271983.24 | 230     | 317152.37 | 1272536.51 | 253  | 317081.18 | 1272637.26 | 276     | 317283.68 | 1272541.45 |
| 208  | 317141.34 | 1271983.14 | 231     | 317157.74 | 1272564.08 | 254  | 317080.05 | 1272642.10 | 277     | 317288.21 | 1272503.92 |
| 209  | 317140.47 | 1271982.20 | 232     | 317152.48 | 1272556.43 | 255  | 317064.25 | 1272637.18 | 278     | 317291.23 | 1272489.39 |
| 210  | 317119.41 | 1272006.81 | 233     | 317147.30 | 1272539.71 | 256  | 317315.87 | 1272152.23 | 279     | 317299.72 | 1272456.54 |
| 211  | 317106.73 | 1272027.15 | 234     | 317132.09 | 1272496.01 | 257  | 317312.55 | 1272164.22 | 280     | 317302.39 | 1272443.81 |
| 212  | 317093.53 | 1272056.84 | 235     | 317136.04 | 1272447.25 | 258  | 317306.48 | 1272184.52 | 281     | 317307.48 | 1272410.46 |
| 213  | 317086.10 | 1272079.64 | 236     | 317140.70 | 1272402.97 | 259  | 317304.92 | 1272220.96 | 282     | 317307.77 | 1272402.50 |
| 214  | 317079.74 | 1272111.60 | 237     | 317140.85 | 1272393.08 | 260  | 317305.85 | 1272256.51 | 283     | 317307.03 | 1272391.27 |
| 215  | 317081.04 | 1272111.73 | 238     | 317146.85 | 1272330.30 | 261  | 317313.61 | 1272311.11 | 284     | 317306.69 | 1272353.38 |
| 216  | 317084.61 | 1272116.11 | 239     | 317147.41 | 1272319.57 | 262  | 317316.69 | 1272353.33 | 285     | 317303.71 | 1272312.51 |
| 217  | 317084.02 | 1272122.08 | 240     | 317145.55 | 1272299.74 | 263  | 317316.83 | 1272384.84 | 286     | 317298.19 | 1272273.67 |
| 218  | 317080.22 | 1272125.66 | 241     | 317139.06 | 1272278.04 | 264  | 317317.43 | 1272397.00 | 287     | 317295.23 | 1272203.07 |
| 219  | 317078.37 | 1272125.56 | 242     | 317146.02 | 1272229.50 | 265  | 317317.38 | 1272411.87 | 288     | 317296.57 | 1272183.16 |
| 220  | 317077.80 | 1272141.28 | 243     | 317163.71 | 1272206.81 | 266  | 317312.23 | 1272445.59 | 289     | 317303.26 | 1272160.51 |
| 221  | 317089.28 | 1272154.27 | 244     | 317105.13 | 1272226.66 | 267  | 317309.46 | 1272458.82 | 290     | 317306.49 | 1272148.01 |
| 222  | 317188.99 | 1272198.81 | 245     | 317107.79 | 1272259.72 | 268  | 317300.97 | 1272491.66 |         |           |            |
|  |           |            |         |           |            |  |           |            |         |           |            |

|         | CONTROL PC                  | INTS (SITE FU | JRNISHINGS)       | CONTROL POINTS (SITE FURNISHINGS) |          |           |             |  |  |
|---------|-----------------------------|---------------|-------------------|-----------------------------------|----------|-----------|-------------|--|--|
| POINT # | NORTHING                    | EASTING       | DESCRIPTION       | POINT #                           | NORTHING | EASTING   | DESCRIPTION |  |  |
| 300     | 317224.6                    | 1271831.9     | SIGN              | 318                               | 317083.2 | 1272093.3 | SIGN        |  |  |
| 301     | 317223.1                    | 1271844.6     | BENCH             | 319                               | 317118.8 | 1272503.4 | SIGN        |  |  |
| 302     | 317148.2                    | 1271975.6     | FOOTWASH          | 320                               | 317284.4 | 1272235.2 | SIGN        |  |  |
| 303     | 317146.8                    | 1271977.3     | BOULDER           | 321                               | 317179.8 | 1272208.2 | SIGN        |  |  |
| 304     | 317144.1                    | 1271979.5     | BENCH             | 322                               | 317269.8 | 1272236.2 | BRIDGE      |  |  |
| 305     | 317114.9                    | 1272018.2     | PICNIC TABLE      | 323                               | 317267.4 | 1272245.9 | BRIDGE      |  |  |
| 306     | 317092.3                    | 1272069.2     | ADA PICNIC TABLE  | 324                               | 317232.7 | 1272226.8 | BRIDGE      |  |  |
| 307     | 317080.7                    | 1272118.7     | BENCH             | 325                               | 317230.3 | 1272236.5 | BRIDGE      |  |  |
| 308     | 317126.3                    | 1272179.4     | BENCH             | 326                               | 317226.2 | 1272224.8 | BOARDWALK   |  |  |
| 309     | 317146.9                    | 1272188.6     | BENCH             | 327                               | 317211.7 | 1272217.9 | BOARDWALK   |  |  |
| 310     | 317111.4                    | 1272186.7     | GRILL             | 328                               | 317206.2 | 1272214.6 | BOARDWALK   |  |  |
| 311     | 317112.5                    | 1272199.0     | GRILL             | 329                               | 317200.4 | 1272222.8 | BOARDWALK   |  |  |
| 312     | 317080.0                    | 1272176.7     | DRINKING FOUNTAIN | 330                               | 317202.1 | 1272223.8 | BOARDWALK   |  |  |
| 313     | 317315.3                    | 1272140.1     | PICNIC TABLE      | 331                               | 317206.6 | 1272226.5 | BOARDWALK   |  |  |
| 314     | 317290.8                    | 1272192.9     | ADA PICNIC TABLE  | 332                               | 317222.5 | 1272234.1 | BOARDWALK   |  |  |
| 315     | 317143.0                    | 1272310.0     | PICNIC TABLE      | 333                               | 317081.1 | 1272171.5 | JUG FILLER  |  |  |
| 316     | 317138.0                    | 1272397.9     | BENCH             | 334                               | 317224.7 | 1271908.2 | LIGHT       |  |  |
| 317     | 317 317282.6 1272250.5 SIGN |               |                   |                                   |          |           |             |  |  |

| CONTROL POINTS<br>(LARGE WOODY MATERIAL) |           |            | CONTROL POINTS<br>(LARGE WOODY MATERIAL) |           |            | CONTROL POINTS<br>(LARGE WOODY MATERIAL) |           |            | CONTROL POINTS<br>(LARGE WOODY MATERIAL) |           |            |
|--|-----------|------------|--|-----------|------------|--|-----------|------------|--|-----------|------------|
| POINT #                                  | NORTHING  | EASTING    |
| 400                                      | 317253.38 | 1271892.96 | 415                                      | 317265.48 | 1272002.66 | 430                                      | 317415.76 | 1271951.87 | 445                                      | 317236.59 | 1272395.08 |
| 401                                      | 317251.66 | 1271902.16 | 416                                      | 317242.28 | 1272029.62 | 431                                      | 317411.33 | 1271966.82 | 446                                      | 317253.38 | 1272437.77 |
| 402                                      | 317248.50 | 1271903.16 | 417                                      | 317233.67 | 1272019.40 | 432                                      | 317374.35 | 1272034.61 | 447                                      | 317252.24 | 1272450.96 |
| 403                                      | 317346.43 | 1271897.84 | 418                                      | 317226.64 | 1272010.52 | 433                                      | 317364.69 | 1272043.67 | 448                                      | 317256.20 | 1272479.83 |
| 404                                      | 317343.78 | 1271901.17 | 419                                      | 317324.63 | 1272005.59 | 434                                      | 317366.77 | 1272050.85 | 449                                      | 317238.32 | 1272497.27 |
| 405                                      | 317346.73 | 1271905.91 | 420                                      | 317320.00 | 1272011.61 | 435                                      | 317355.37 | 1272080.10 | 450                                      | 317246.32 | 1272521.85 |
| 406                                      | 317354.21 | 1271909.76 | 421                                      | 317300.54 | 1272033.76 | 436                                      | 317347.24 | 1272082.11 | 451                                      | 317227.35 | 1272531.40 |
| 407                                      | 317330.75 | 1271948.48 | 422                                      | 317297.64 | 1272040.22 | 437                                      | 317346.11 | 1272100.30 | 452                                      | 317229.44 | 1272555.62 |
| 408                                      | 317334.41 | 1271956.33 | 423                                      | 317303.30 | 1272073.68 | 438                                      | 317234.49 | 1272109.72 | 453                                      | 317191.53 | 1272576.23 |
| 409                                      | 317260.58 | 1271934.17 | 424                                      | 317298.41 | 1272079.33 | 439                                      | 317224.93 | 1272115.31 | 454                                      | 317243.77 | 1271912.00 |
| 410                                      | 317263.50 | 1271944.72 | 425                                      | 317279.31 | 1272137.29 | 440                                      | 317211.85 | 1272116.04 | 455                                      | 317220.11 | 1272342.09 |
| 411                                      | 317268.11 | 1271957.40 | 426                                      | 317262.72 | 1272161.04 | 441                                      | 317257.19 | 1272251.28 | 456                                      | 317206.32 | 1272354.18 |
| 412                                      | 317233.31 | 1271963.83 | 427                                      | 317273.87 | 1272185.45 | 442                                      | 317229.43 | 1272379.24 | 457                                      | 317206.95 | 1272372.97 |
| 413                                      | 317239.80 | 1271969.65 | 428                                      | 317257.60 | 1272196.06 | 443                                      | 317255.27 | 1272390.23 | 458                                      | 317207.52 | 1272378.81 |
| 414                                      | 317258.06 | 1272007.71 | 429                                      | 317406.50 | 1271937.34 | 444                                      | 317261.60 | 1272393.59 |  |           |            |

| CONTROL POINTS (FENCES) |           |            |  |  |  |  |  |  |
|-------------------------|-----------|------------|--|--|--|--|--|--|
| POINT #                 | NORTHING  | EASTING    |  |  |  |  |  |  |
| 600                     | 317084.34 | 1272473.33 |  |  |  |  |  |  |
| 601                     | 317089.90 | 1272473.89 |  |  |  |  |  |  |
| 602                     | 317140.09 | 1272561.99 |  |  |  |  |  |  |
| 603                     | 317138.37 | 1272564.84 |  |  |  |  |  |  |
| 604                     | 317141.32 | 1272579.64 |  |  |  |  |  |  |
| 605                     | 317114.46 | 1272650.49 |  |  |  |  |  |  |
| 606                     | 317105.52 | 1272657.20 |  |  |  |  |  |  |
| 607                     | 317082.49 | 1272656.61 |  |  |  |  |  |  |
| 608                     | 317166.30 | 1272591.68 |  |  |  |  |  |  |
| 609                     | 317160.31 | 1272586.48 |  |  |  |  |  |  |
| 610                     | 317158.55 | 1272585.62 |  |  |  |  |  |  |
| 611                     | 317141.30 | 1272598.37 |  |  |  |  |  |  |
| 612                     | 317124.13 | 1272653.01 |  |  |  |  |  |  |
|                         |           |            |  |  |  |  |  |  |

| CONTROL POINTS<br>(ROCK WALLS) |           |            |  |  |
|--------------------------------|-----------|------------|--|--|
| POINT #                        | NORTHING  | EASTING    |  |  |
| 700                            | 317070.36 | 1272230.88 |  |  |
| 701                            | 317058.39 | 1272231.71 |  |  |
| 702                            | 317060.47 | 1272261.64 |  |  |
| 703                            | 317302.88 | 1272517.68 |  |  |
| 704                            | 317279.51 | 1272581.21 |  |  |
| 705                            | 317282.55 | 1272588.52 |  |  |
| 706                            | 317164.88 | 1272557.20 |  |  |
| 707                            | 317168.20 | 1272558.60 |  |  |
| 708                            | 317172.03 | 1272574.30 |  |  |
| 709                            | 317152.52 | 1272297.82 |  |  |
| 710                            | 317144.72 | 1272271.52 |  |  |
| 711                            | 317145.04 | 1272247.95 |  |  |
| 712                            | 317170.90 | 1272210.98 |  |  |
| 713                            | 317176.64 | 1272209.27 |  |  |

| (SWALE  | AND DITCH CE | NTERLINES) |
|---------|--------------|------------|
| POINT # | NORTHING     | EASTING    |
| 500     | 317230.61    | 1271902.05 |
| 501     | 317214.30    | 1271918.10 |
| 502     | 317195.37    | 1271927.54 |
| 503     | 317145.92    | 1271962.19 |
| 504     | 317090.25    | 1272035.22 |
| 505     | 317081.35    | 1272057.35 |
| 506     | 317067.15    | 1272159.16 |
| 507     | 317069.29    | 1272190.16 |
| 508     | 317216.46    | 1272019.03 |
| 509     | 317209.18    | 1272024.08 |
| 510     | 317191.41    | 1272044.1  |
| 511     | 317174.23    | 1272063.97 |
| 512     | 317158.23    | 1272080.24 |
| 513     | 317147.00    | 1272093.9  |
| 514     | 317140.75    | 1272099.46 |
| 515     | 317134.25    | 1272107.06 |
| 516     | 317067.16    | 1272271.20 |
| 517     | 317068.05    | 1272283.53 |
| 518     | 317069.22    | 1272294.54 |
| 519     | 317069.97    | 1272315.42 |
| 520     | 317069.93    | 1272337.67 |
| 521     | 317069.52    | 1272397.6  |
| 522     | 317071.49    | 1272434.06 |
| 523     | 317070.59    | 1272455.63 |

CONTROL POINTS

| CONTROL POINTS<br>(GABION WALLS) |  |  | CONTROL POINTS<br>(GABION WALLS)  |  |  |  |
|----------------------------------|--|--|---|--|--|--|
| NORTHING                         | EASTING  | POINT #  | NORTHING  | EASTING  |  |  |
| 317060.91                        | 1272267.25   | 860  | 317063.77   | 1272393.61   |  |  |
| 317061.62                        | 1272279.23   | 861  | 317063.38   | 1272399.65   |  |  |
| 317063.45                        | 1272297.21   | 862  | 317063.18   | 1272405.68   |  |  |
| 317063.88                        | 1272303.29   | 863  | 317063.22   | 1272411.74   |  |  |
| 317064.05                        | 1272309.35   | 864  | 317063.49   | 1272417.84   |  |  |
| 317063.63                        | 1272327.40   | 865  | 317065.70   | 1272435.92   |  |  |
| 317063.72                        | 1272333.46   | 866  | 317066.24   | 1272442.10   |  |  |
| 317065.12                        | 1272357.50   | 867  | 317065.91   | 1272448.30   |  |  |
| 317065.26                        | 1272363.49   | 868  | 317064.74   | 1272454.45   |  |  |
| 317065.21                        | 1272369.65   | 869  | 317064.52   | 1272466.45   |  |  |
|                                  | NORTHING 317060.91 317061.62 317063.45 317063.88 317064.05 317063.63 317063.72 317065.12 317065.26 | NORTHING EASTING 317060.91 1272267.25 317061.62 1272279.23 317063.45 1272297.21 317063.88 1272303.29 317064.05 1272309.35 317063.63 1272327.40 317065.12 1272357.50 317065.26 1272363.49 | NORTHING       EASTING       POINT #         317060.91       1272267.25       860         317061.62       1272279.23       861         317063.45       1272297.21       862         317063.88       1272303.29       863         317064.05       1272309.35       864         317063.63       1272327.40       865         317063.72       1272333.46       866         317065.12       1272357.50       867         317065.26       1272363.49       868 | NORTHING         EASTING         POINT #         NORTHING           317060.91         1272267.25         860         317063.77           317061.62         1272279.23         861         317063.38           317063.45         1272297.21         862         317063.18           317063.88         1272303.29         863         317063.22           317064.05         1272309.35         864         317063.49           317063.63         1272327.40         865         317065.70           317063.72         1272333.46         866         317066.24           317065.12         1272357.50         867         317065.91           317065.26         1272363.49         868         317064.74 |  |  |

# R/W PERMIT NO. NA DATE 10/29/2020 PFN: 19-103913LDA

100% CONSTRUCTION DRAWINGS/BID SET

NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
- VERTICAL DATUM: NAVD 88
- DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. SOME INFORMATION WILL BE LOST WITH BLACK AND WHITE VIEWING.





| OF WASA   | REVISIONS  |         |          |             |                   |                               |
|---|--|---------|----------|-------------|-------------------|-------------------------------|
| LER C. HUMMY G  | REV  | DATE    | BY       | APP'D       | DESCRIPTION       |                               |
| \$ \\ \text{\$\infty} \\ \$ |  |         |          |             |                   | ]                             |
|   |  |         |          |             |                   | -                             |
| 5 5   | $\vdash$   |         |          |             |                   |                               |
| PART OF THE PROPERTY OF THE PR  |  |         |          |             |                   | 1                             |
| LANDSCAPE ARO   |  |         |          |             |                   | 1                             |
|   | OF OUR PROPERTY OF THE PARTY OF | REV REV | REV DATE | REV DATE BY | REV DATE BY APP'D | REV DATE BY APP'D DESCRIPTION |

| DESIGNED BY: | PH             |  |
|--------------|----------------|--|
| DRAWN BY:    | CH/TG          |  |
| CHECKED BY:  | DR             |  |
| APPROVED BY: | PH             |  |
| SCALE:       | AS NOTED       |  |
| DATE:        | SEPTEMBER 2020 |  |

CONTROL POINTS (SHEETPILE WALLS)

POINT # | NORTHING | EASTING

317213.74 1271844.24

317238.48 1271841.83

317242.97 1271885.39

317239.77 | 1271906.07

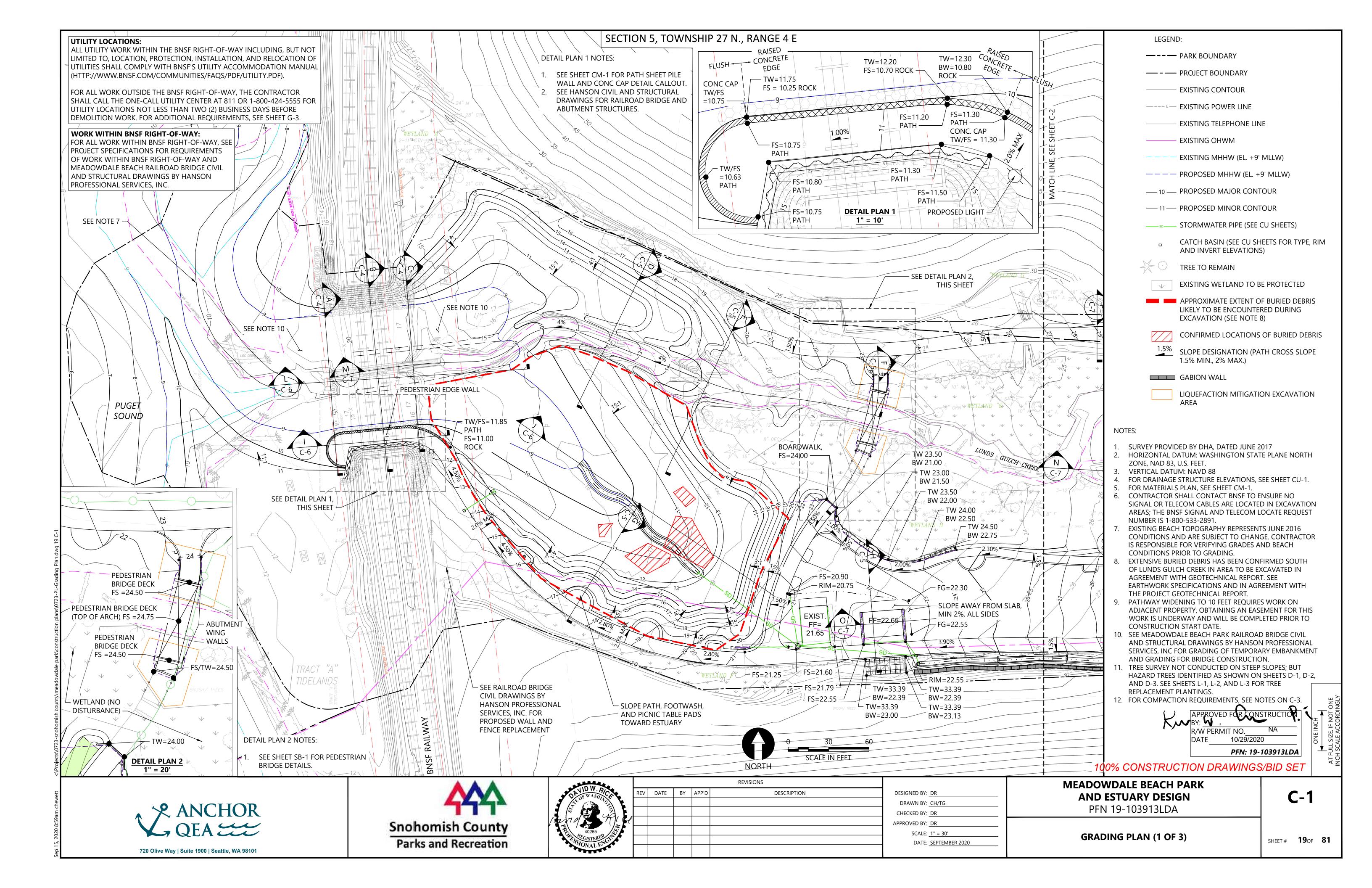
317227.56 1271921.82

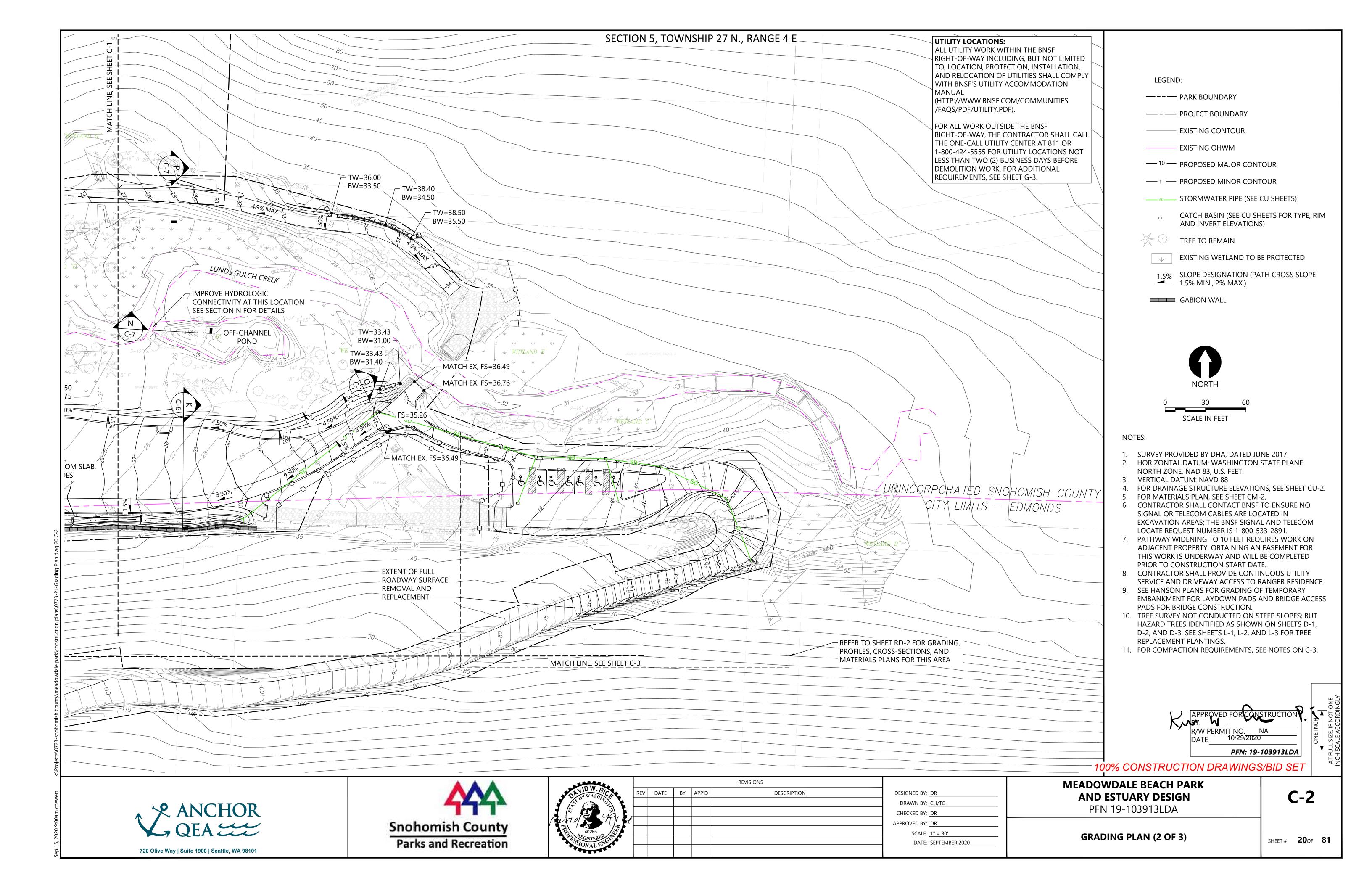
**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** PFN 19-103913LDA

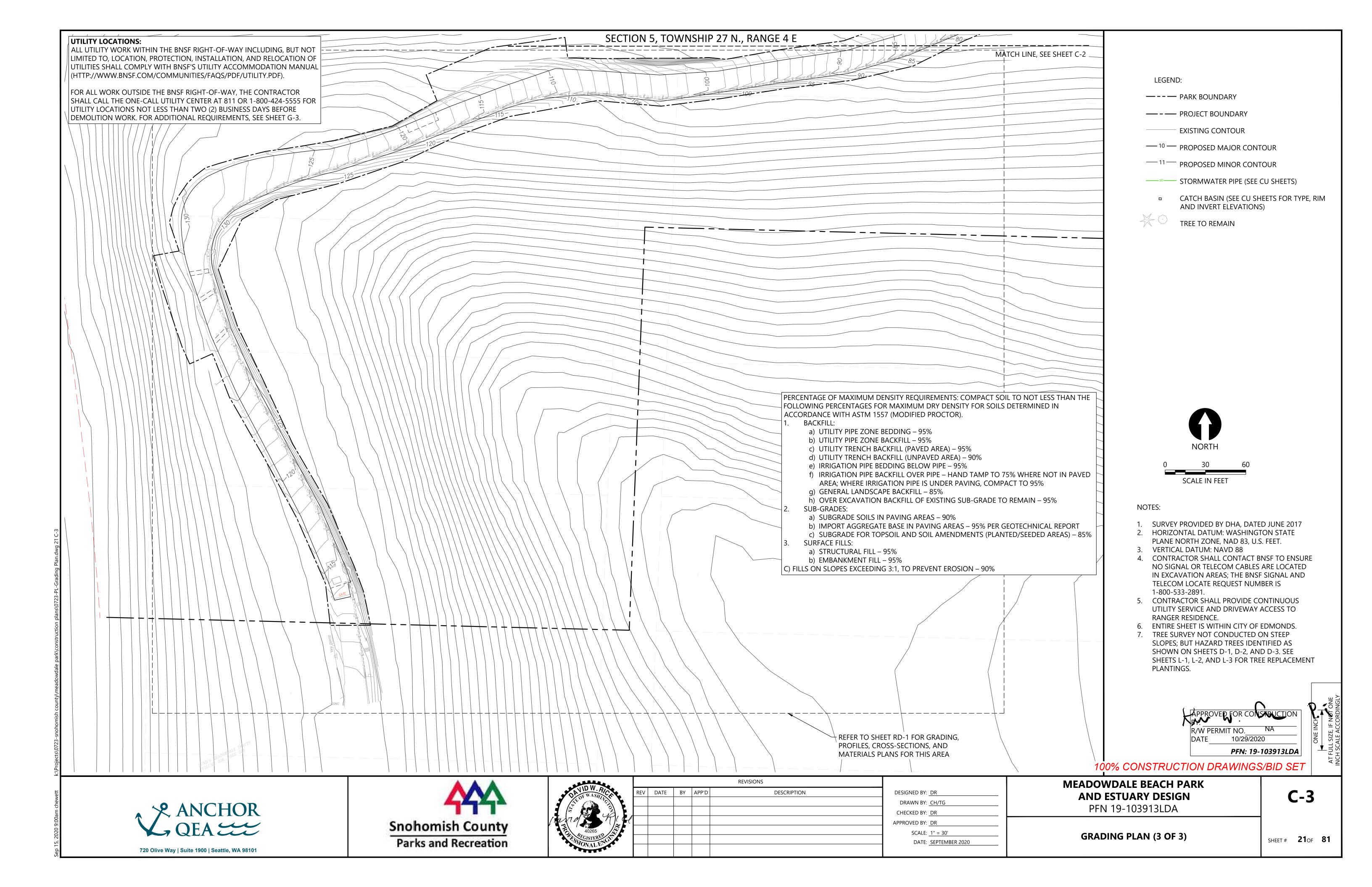
LAYOUT CONTROL POINTS

CV-3

SHEET # 180F 81





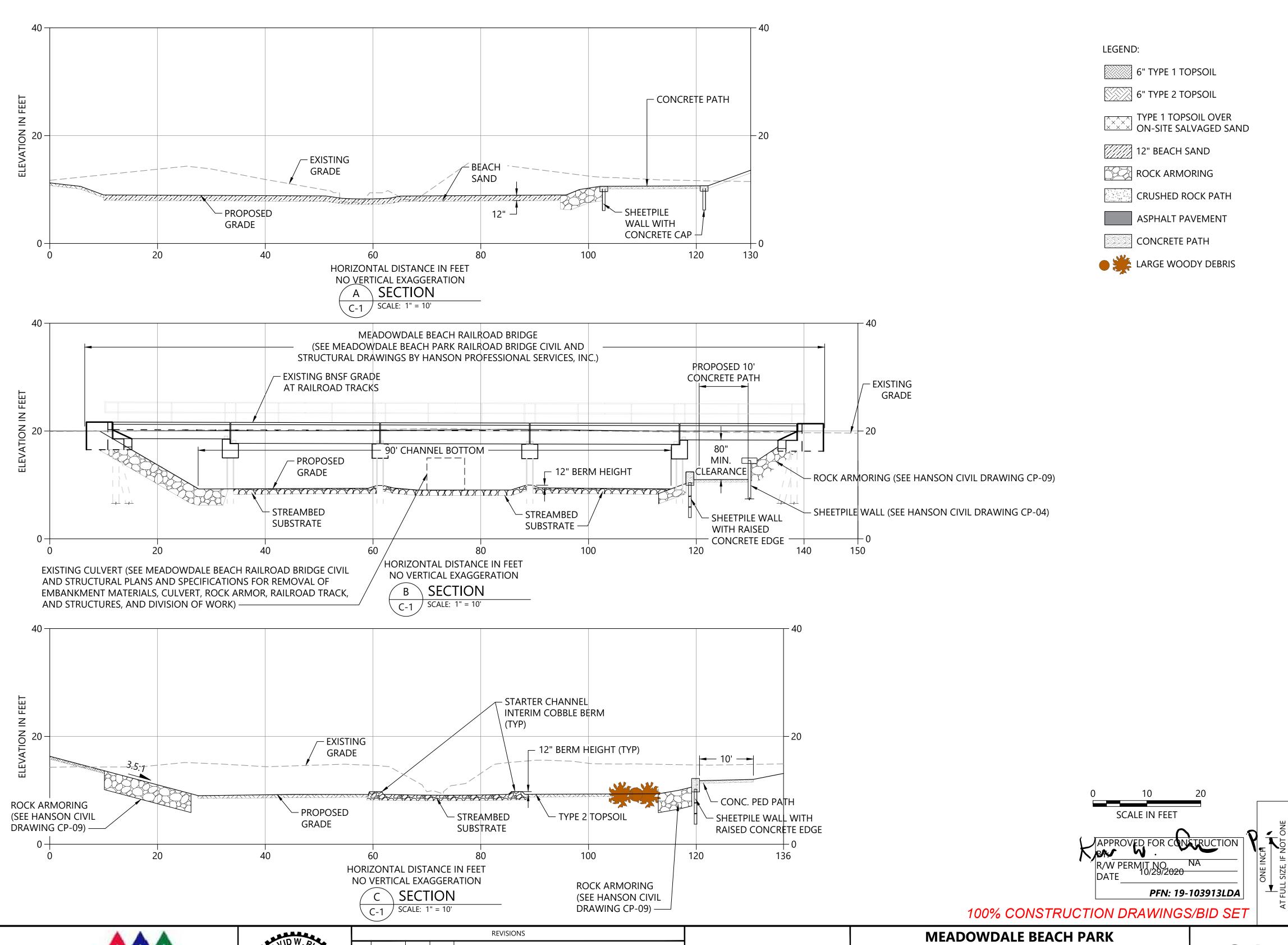


#### **UTILITY LOCATIONS:**

ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION, PROTECTION, INSTALLATION, AND RELOCATION OF UTILITIES SHALL COMPLY WITH BNSF'S UTILITY ACCOMMODATION MANUAL (HTTP://WWW.BNSF.COM/COMMUNITIES/FAQS/PDF/UTILITY.PDF).

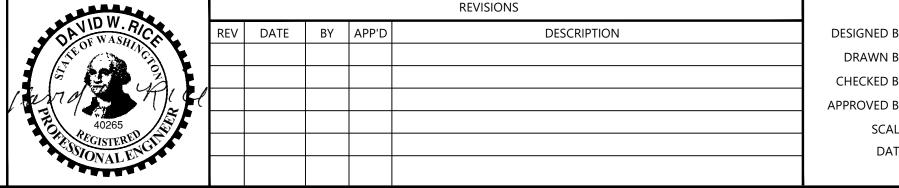
FOR ALL WORK OUTSIDE THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE DEMOLITION WORK. FOR ADDITIONAL REQUIREMENTS, SEE SHEET G-3.

WORK WITHIN BNSF RIGHT-OF-WAY:
FOR ALL WORK WITHIN BNSF RIGHT-OF-WAY, SEE
PROJECT SPECIFICATIONS FOR REQUIREMENTS
OF WORK WITHIN BNSF RIGHT-OF-WAY AND
MEADOWDALE BEACH RAILROAD BRIDGE CIVIL
AND STRUCTURAL DRAWINGS BY HANSON
PROFESSIONAL SERVICES, INC.









DESIGNED BY: DR

DRAWN BY: CH/TG

CHECKED BY: DR

APPROVED BY: DR

SCALE: 1" = 10'

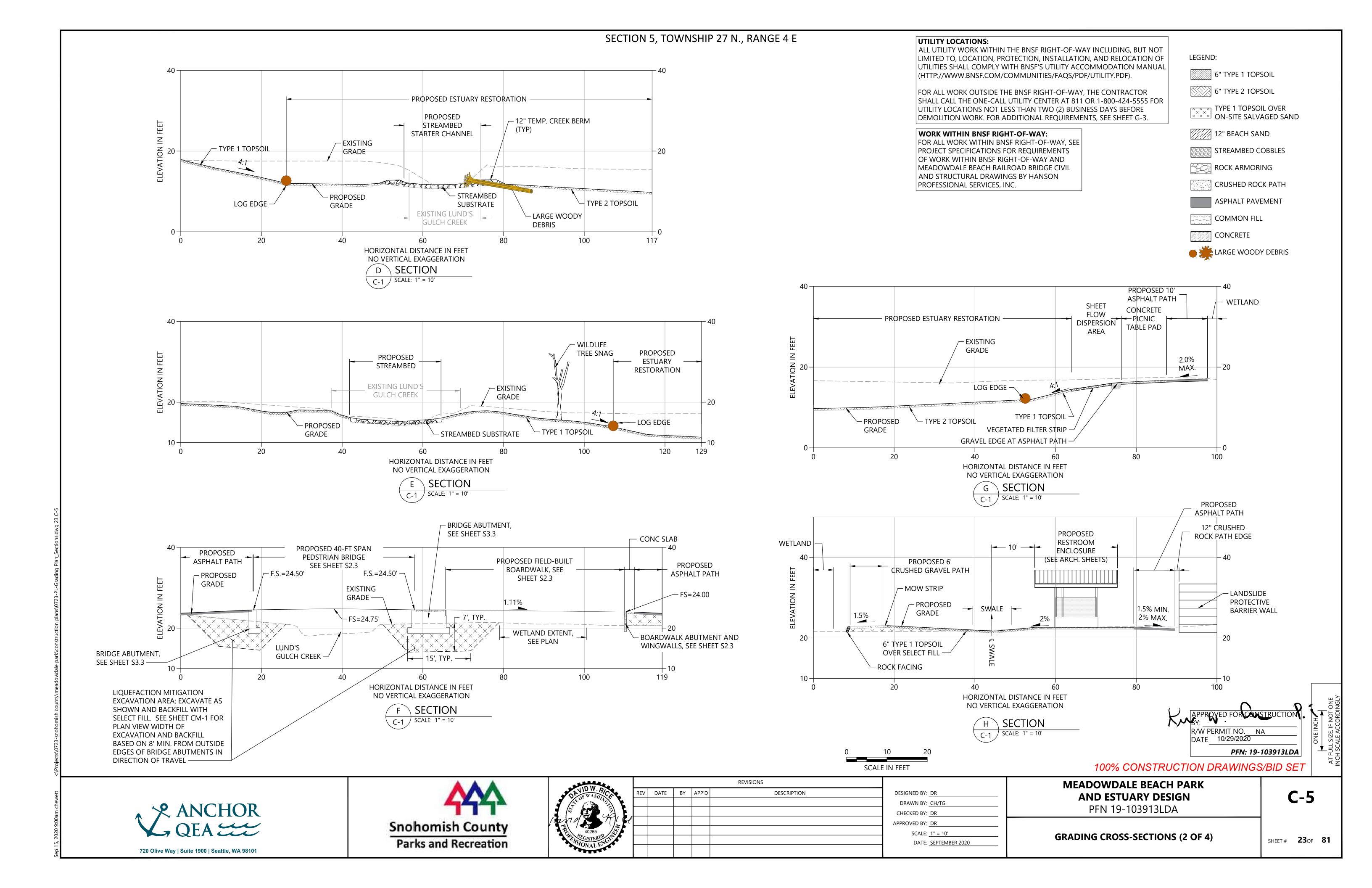
DATE: SEPTEMBER 2020

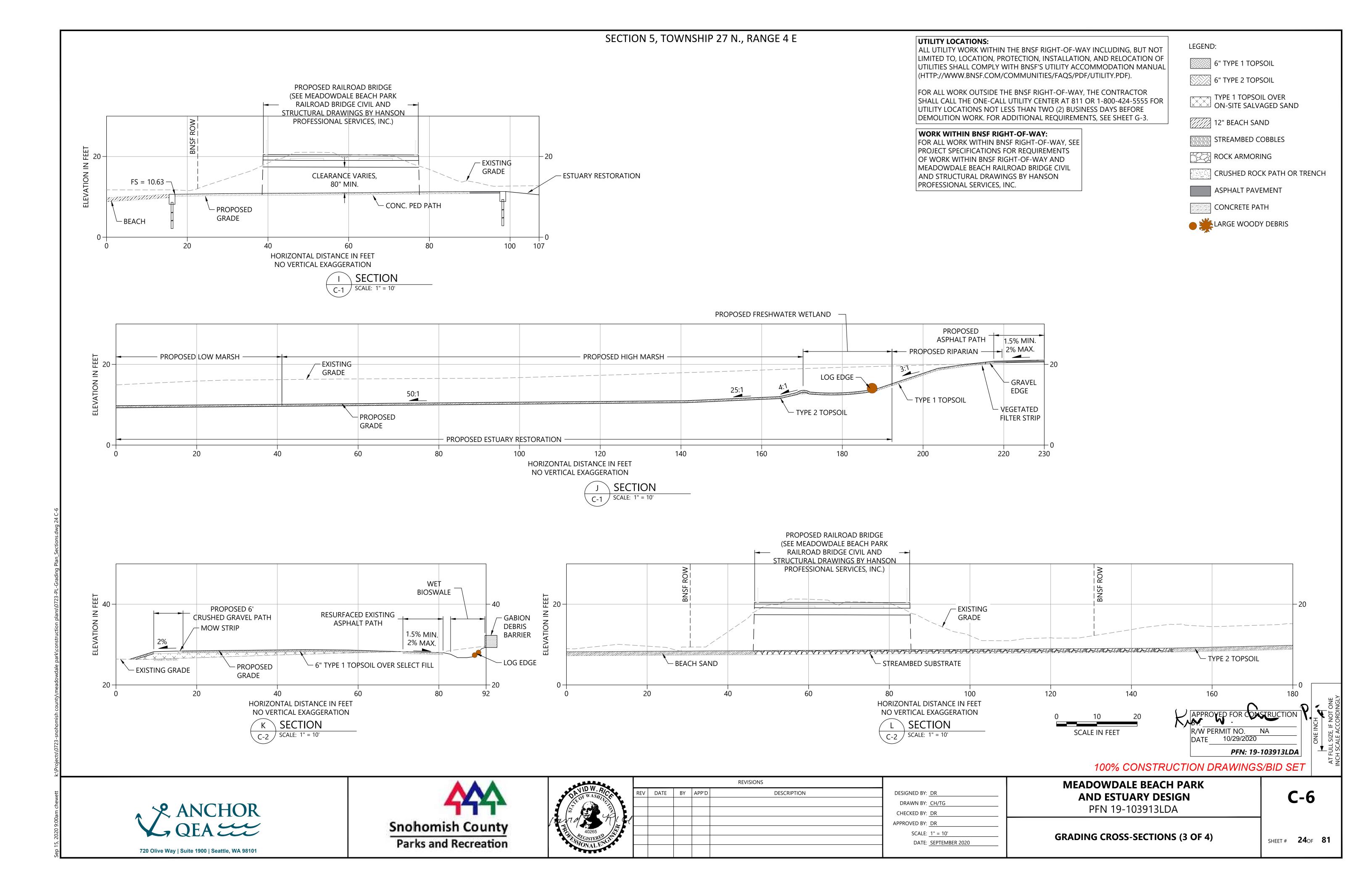
AND ESTUARY DESIGN
PFN 19-103913LDA

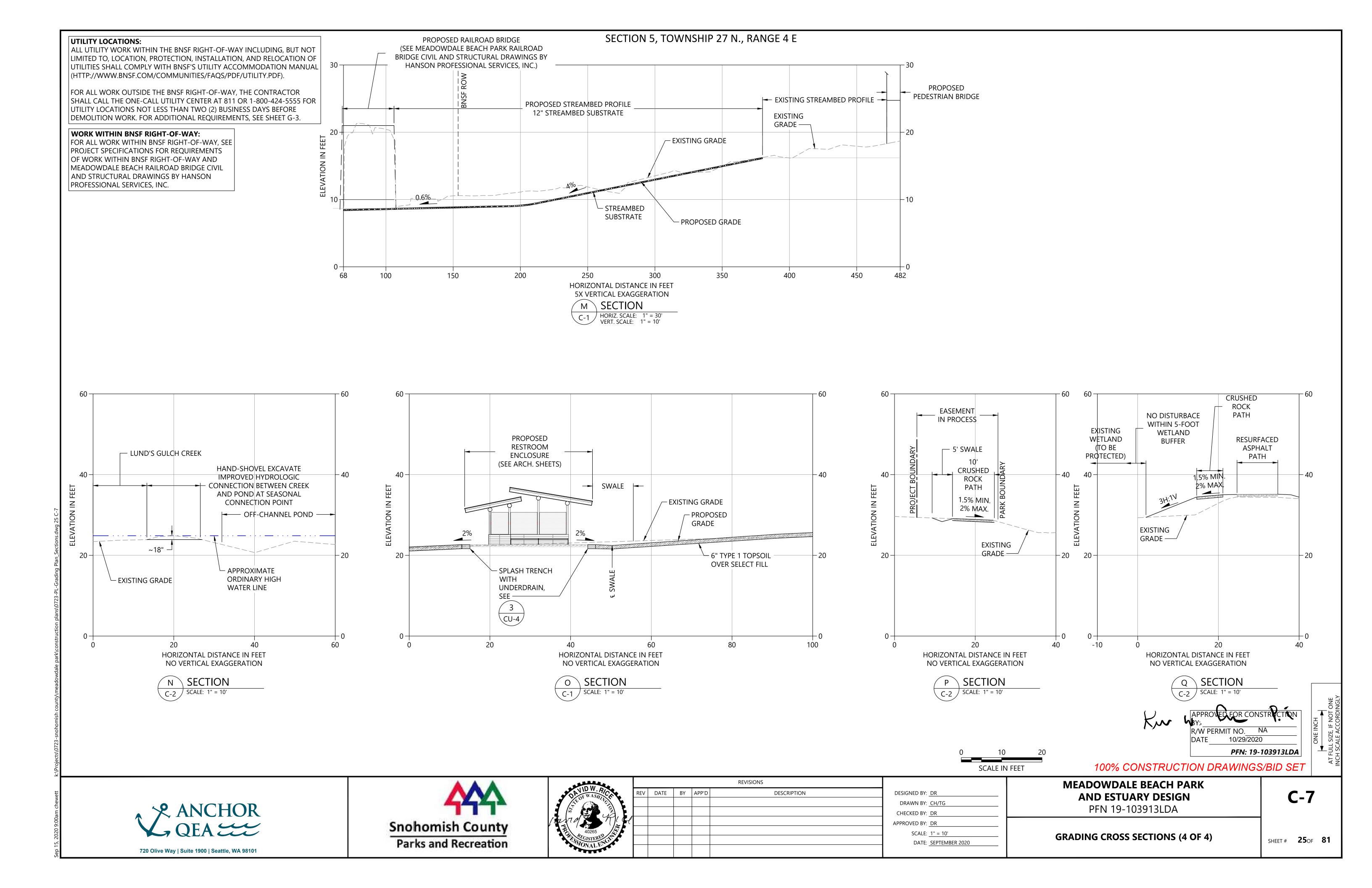
**GRADING CROSS-SECTIONS (1 OF 4)** 

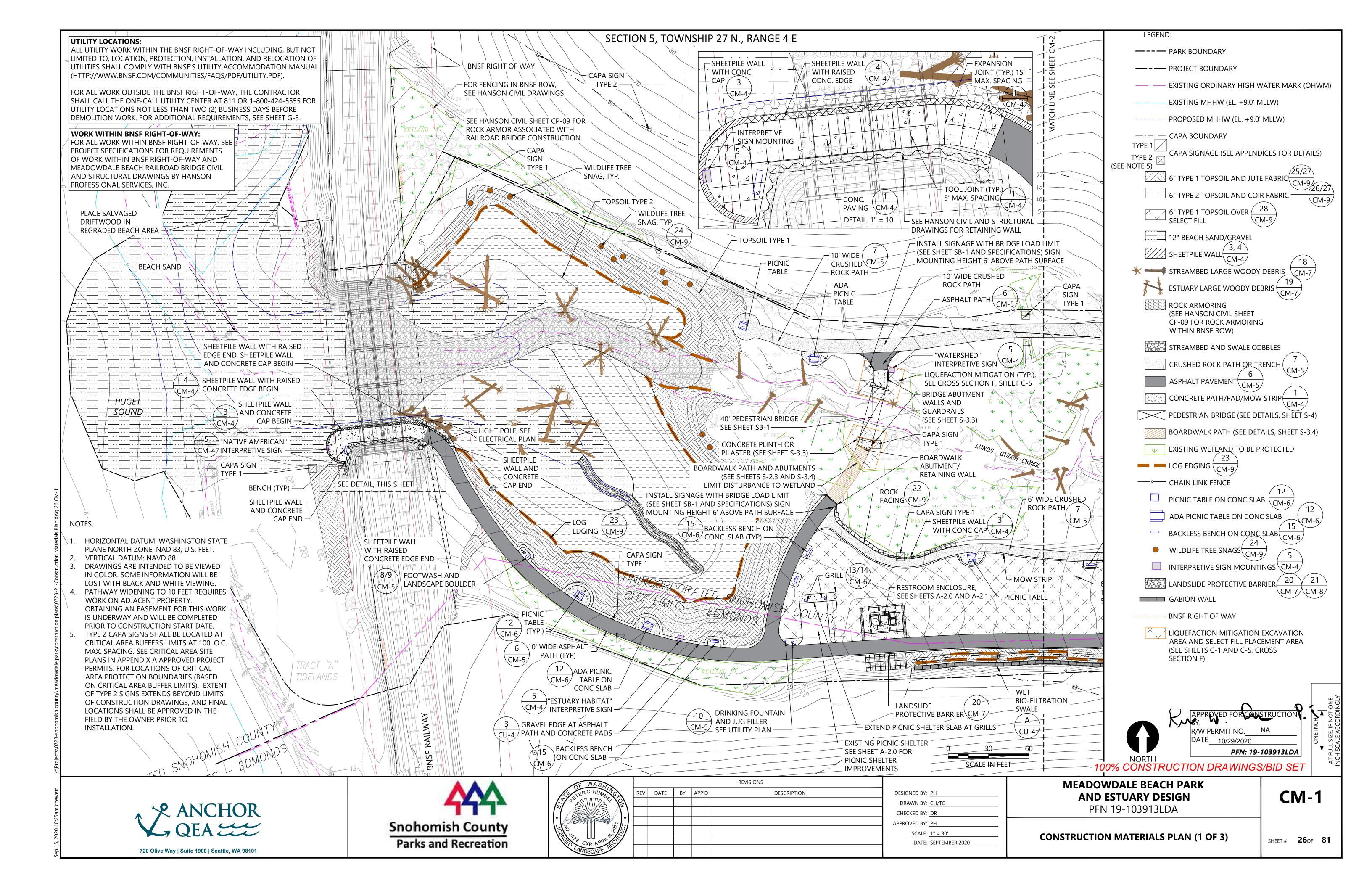
**C-4** 

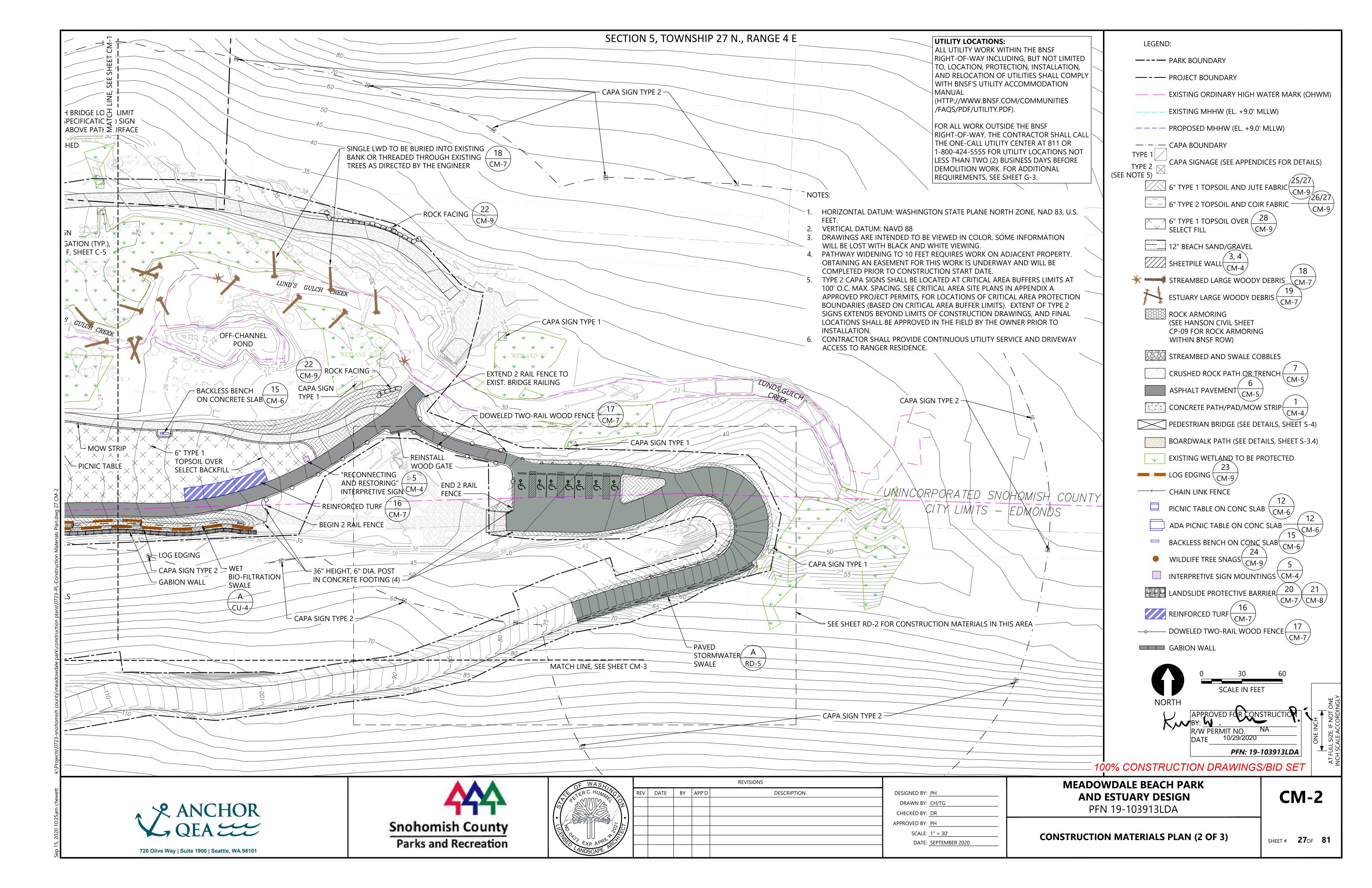
SHEET # 220F 81

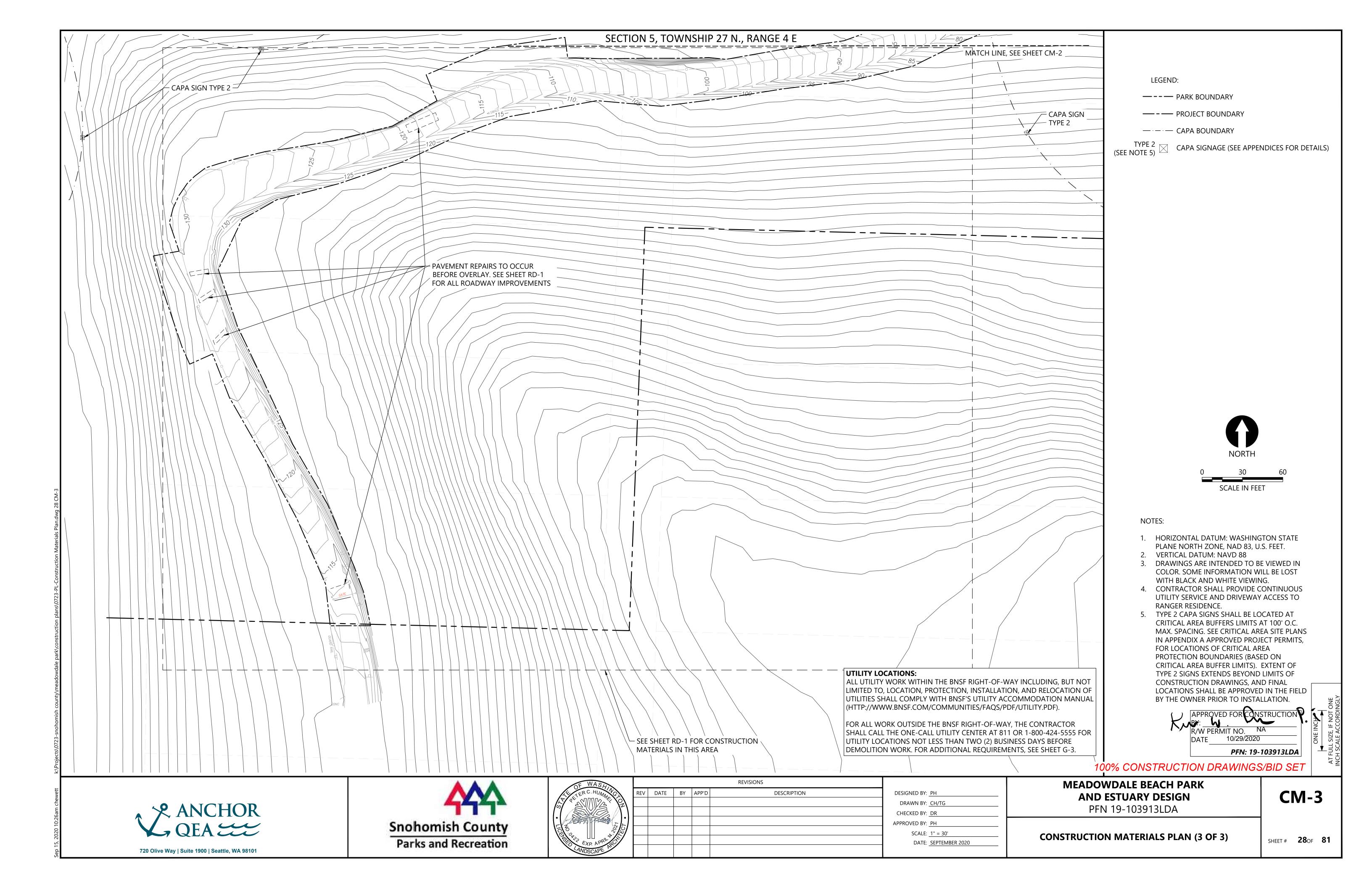


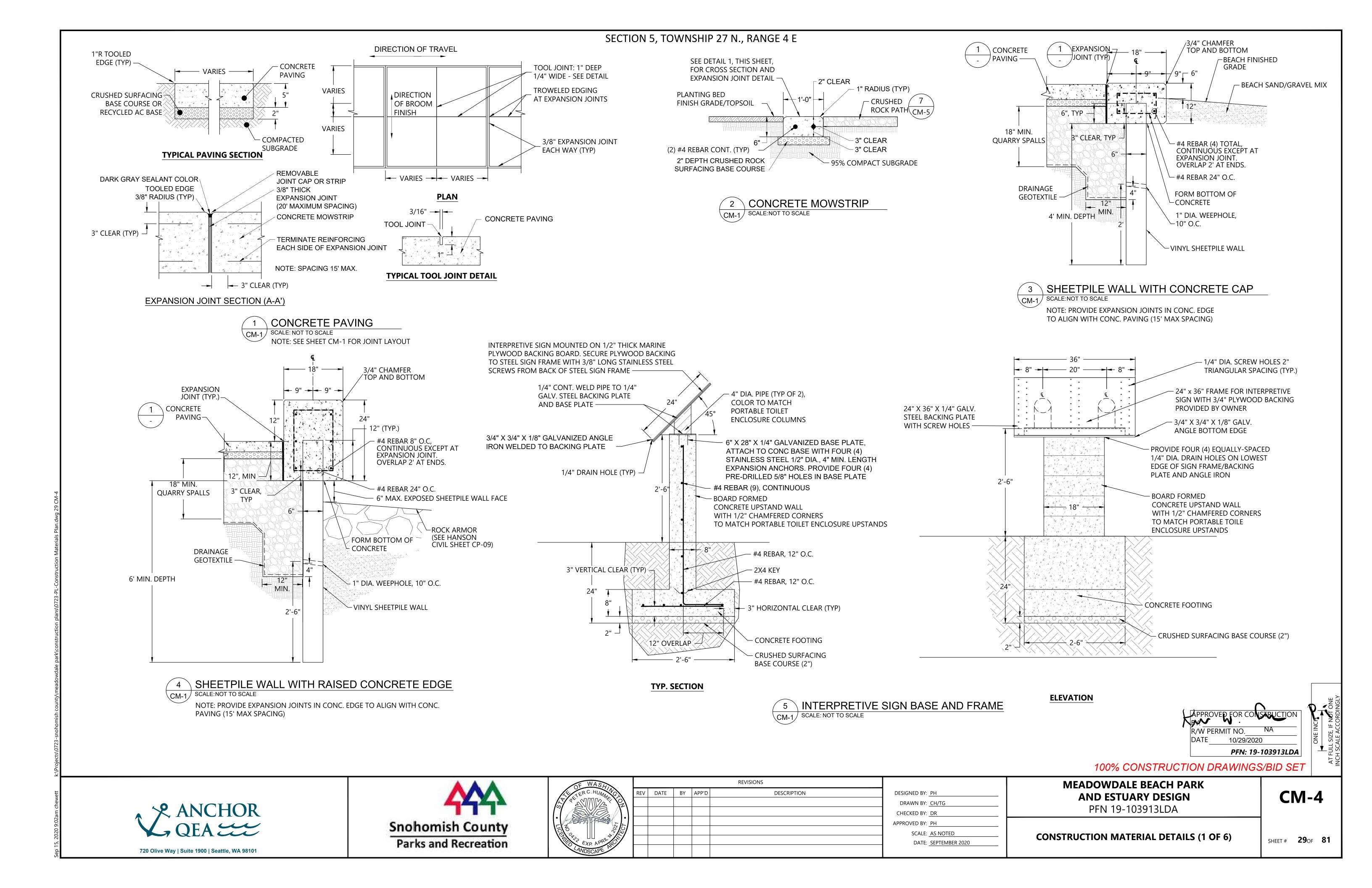


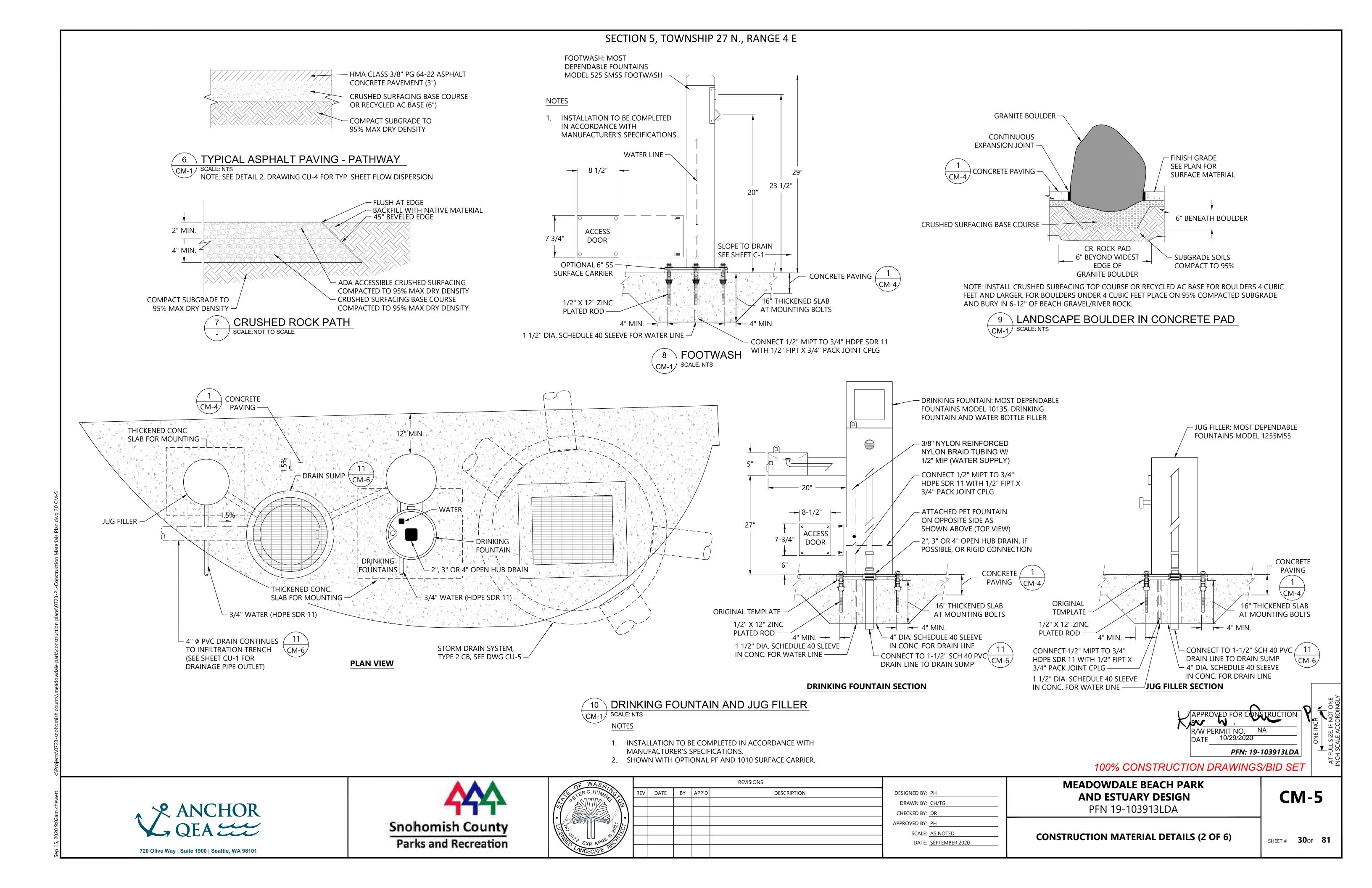


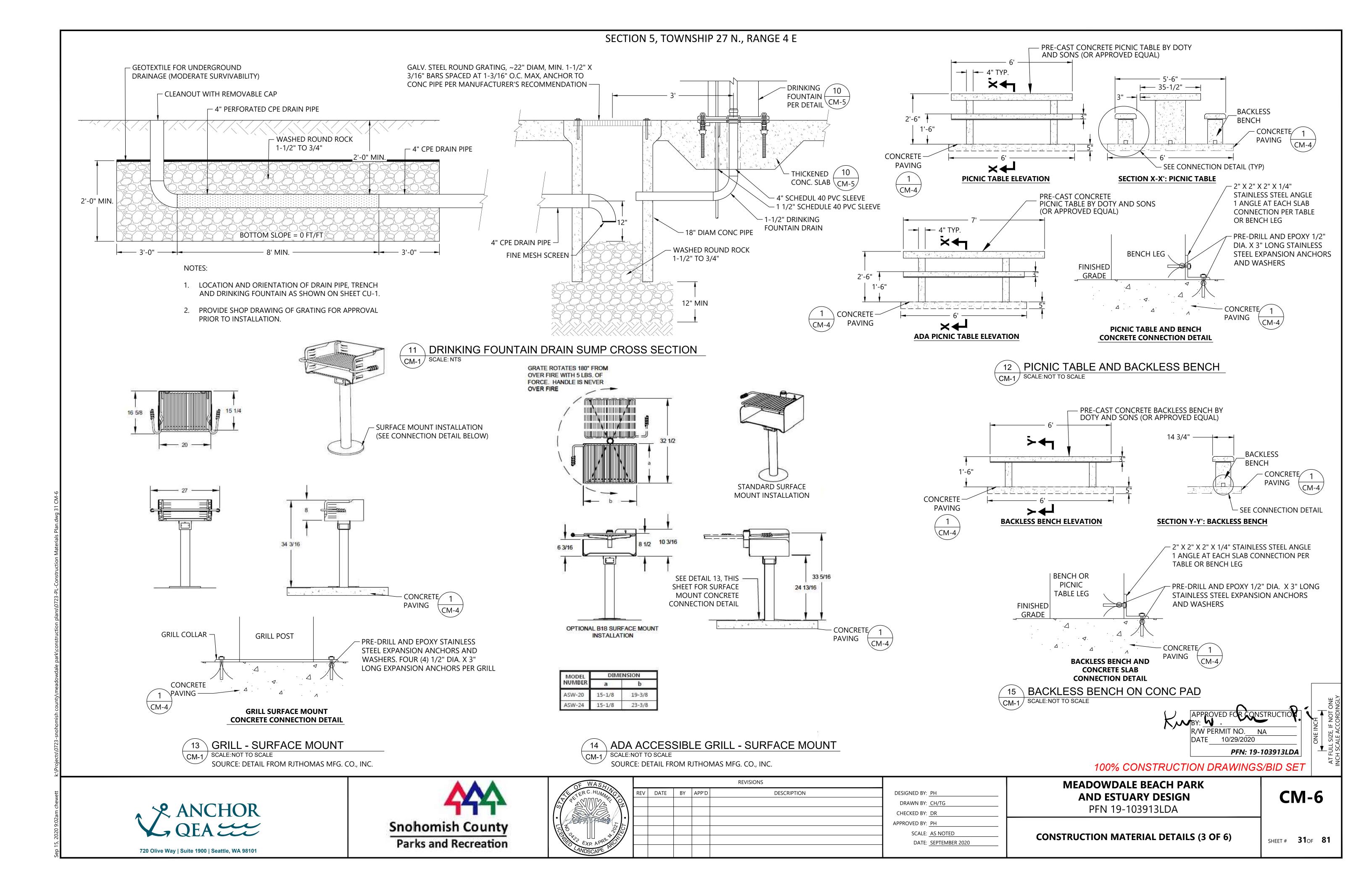


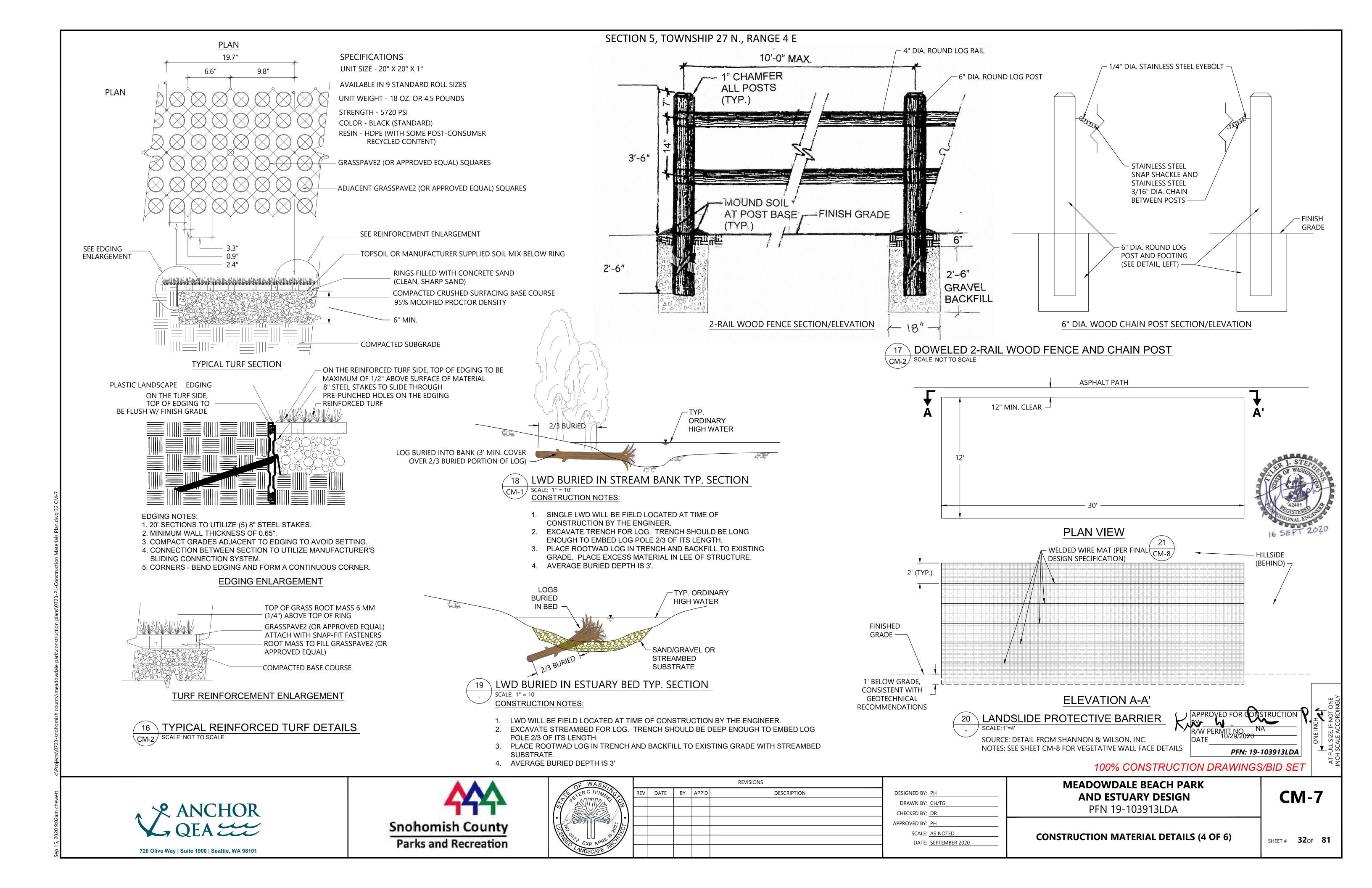


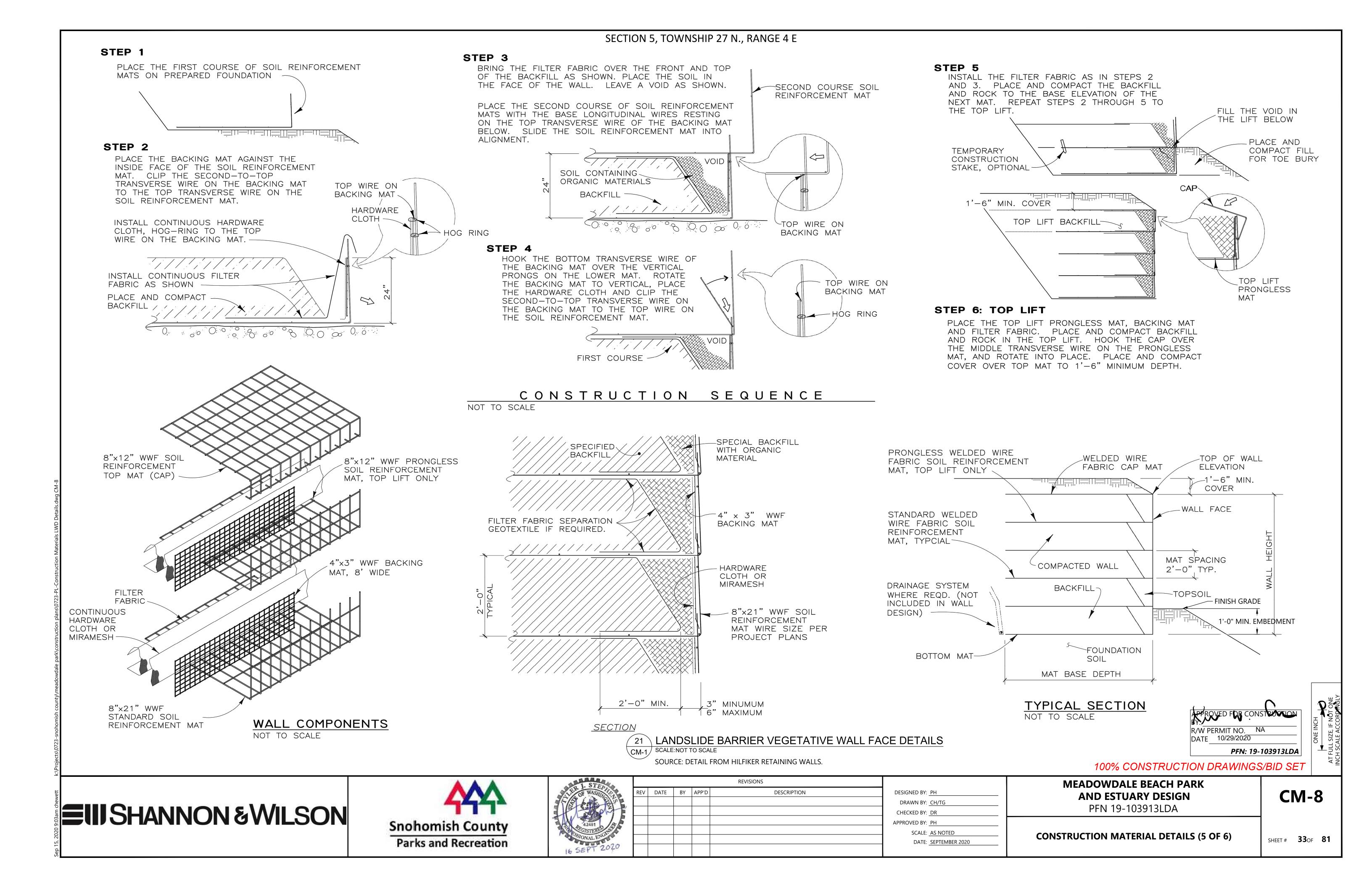


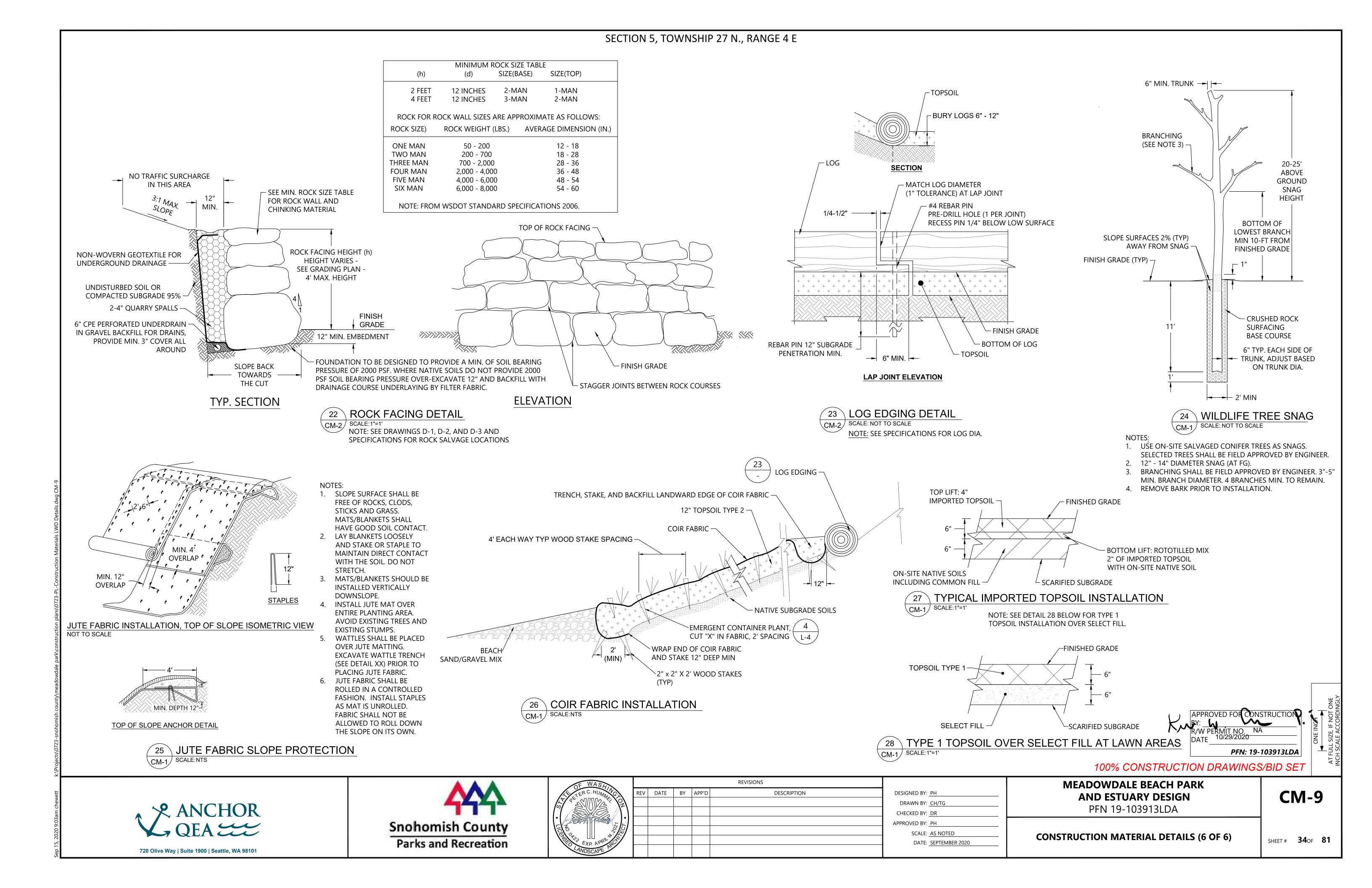


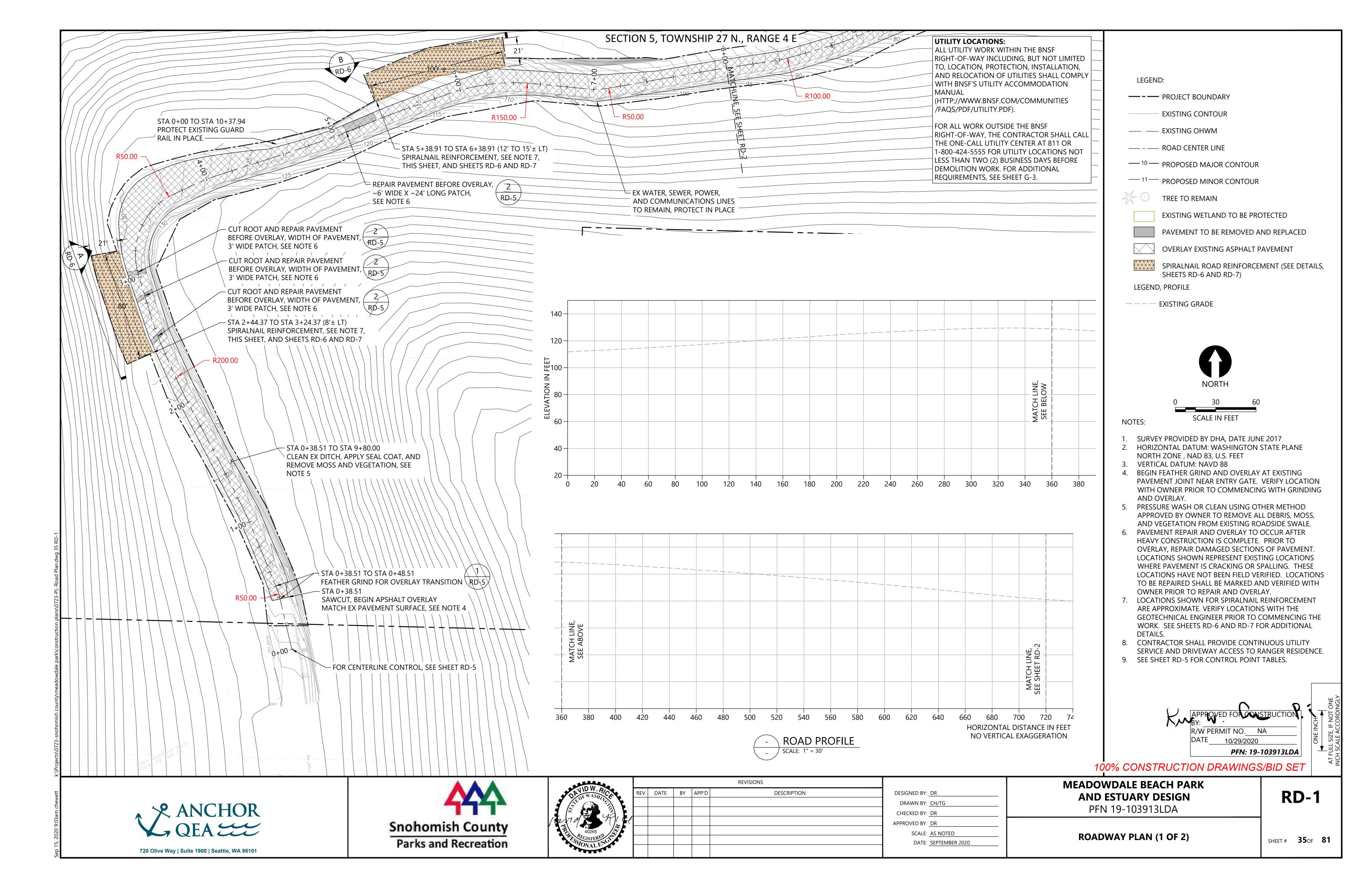


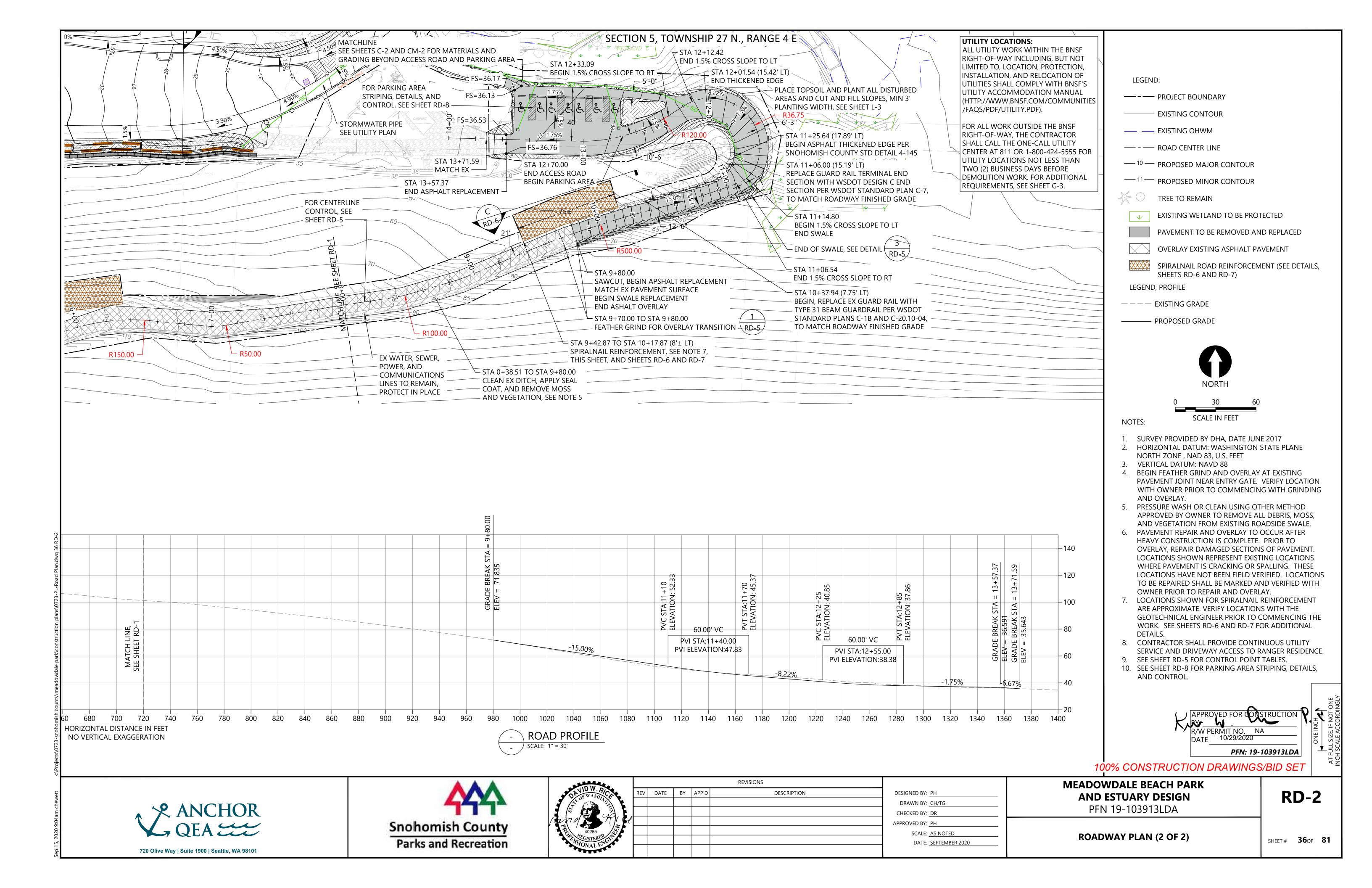


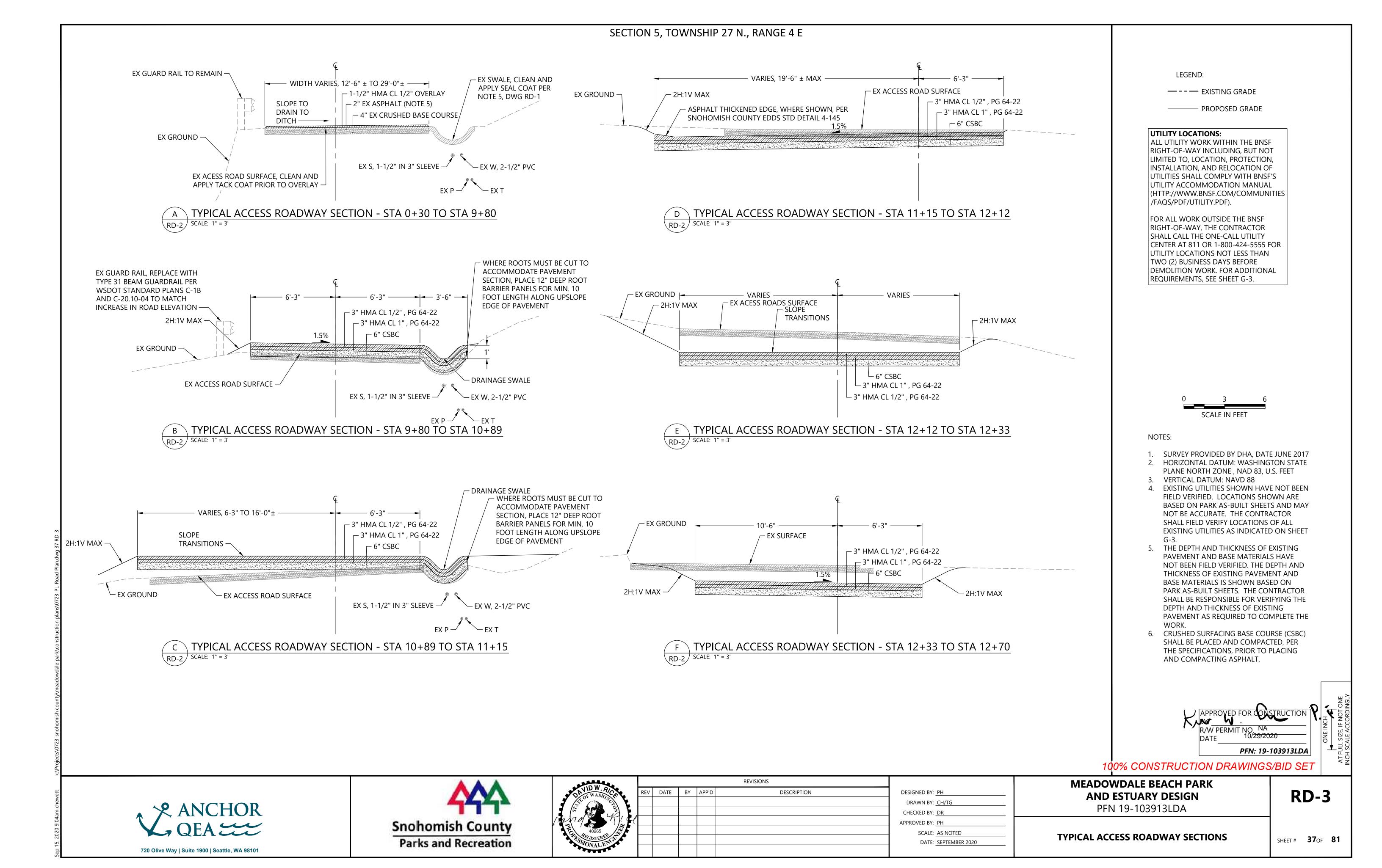












EX WOOD RAIL FENCE, TO REMAIN EX GROUND (ISLAND) -\_ 3" HMA CL 1/2" , PG 64-22 \_ 3" HMA CL 1" , PG 64-22 ⊢6" CSBC <sup>\_</sup> 2H:1V MAX

> G TYPICAL PARKING AREA SECTION - PARALLEL TO CENTERLINE, 20' RT RD-2 | SCALE: 1" = 4'

LEGEND:

— - - — EXISTING GRADE

PROPOSED GRADE

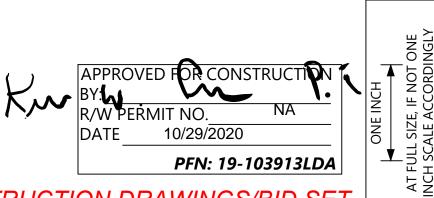
#### **UTILITY LOCATIONS:**

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FOR ALL WORK OUTSIDE THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE DEMOLITION WORK. FOR ADDITIONAL REQUIREMENTS, SEE SHEET G-3.



- 1. SURVEY PROVIDED BY DHA, DATE JUNE 2017
- 2. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE , NAD 83, U.S. FEET
- 3. VERTICAL DATUM: NAVD 88
- 4. EXISTING UTILITIES SHOWN HAVE NOT BEEN FIELD VERIFIED. LOCATIONS SHOWN ARE BASED ON PARK AS-BUILT SHEETS AND MAY NOT BE ACCURATE. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES AS INDICATED ON SHEET G-3.
- 5. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS HAVE NOT BEEN FIELD VERIFIED. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS IS SHOWN BASED ON PARK AS-BUILT SHEETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AS REQUIRED TO COMPLETE THE WORK.
- 6. CRUSHED SURFACING BASE COURSE (CSBC) SHALL BE PLACED AND COMPACTED, PER THE SPECIFICATIONS, PRIOR TO PLACING AND COMPACTING ASPHALT.



100% CONSTRUCTION DRAWINGS/BID SET

720 Olive Way | Suite 1900 | Seattle, WA 98101



| APPERE A      |     |      |    |       | REVISIONS   | 1               |
|---------------|-----|------|----|-------|-------------|-----------------|
| OP WASSICA    | REV | DATE | BY | APP'D | DESCRIPTION | DESIGNED BY: PH |
| STON WASHING! |     |      |    |       |             | DRAWN BY: CH/TG |
|               |     |      |    |       |             | CHECKED BY: DR  |
| 1 axid to the |     |      |    |       |             | APPROVED BY: PH |
| 40265         |     |      |    |       |             | SCALE: AS NOTE  |
| GO ONALENCIA  |     |      |    |       |             | DATE: SEPTEMB   |
| HAD           |     |      |    |       |             |                 |

**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** PFN 19-103913LDA

SCALE: AS NOTED

DATE: SEPTEMBER 2020

TYPICAL PARKING AREA SECTIONS

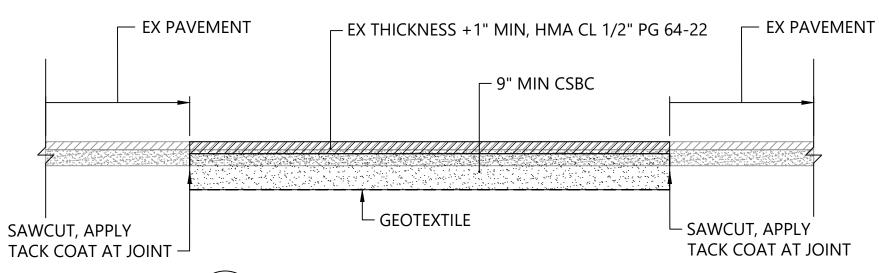
RD-4

SHEET # **38**OF **81** 

OVERLAY TRANSITION DETAIL RD-1 SCALE: NTS

**JOINT WITH EX PAVEMENT** 

**NOTES:** 

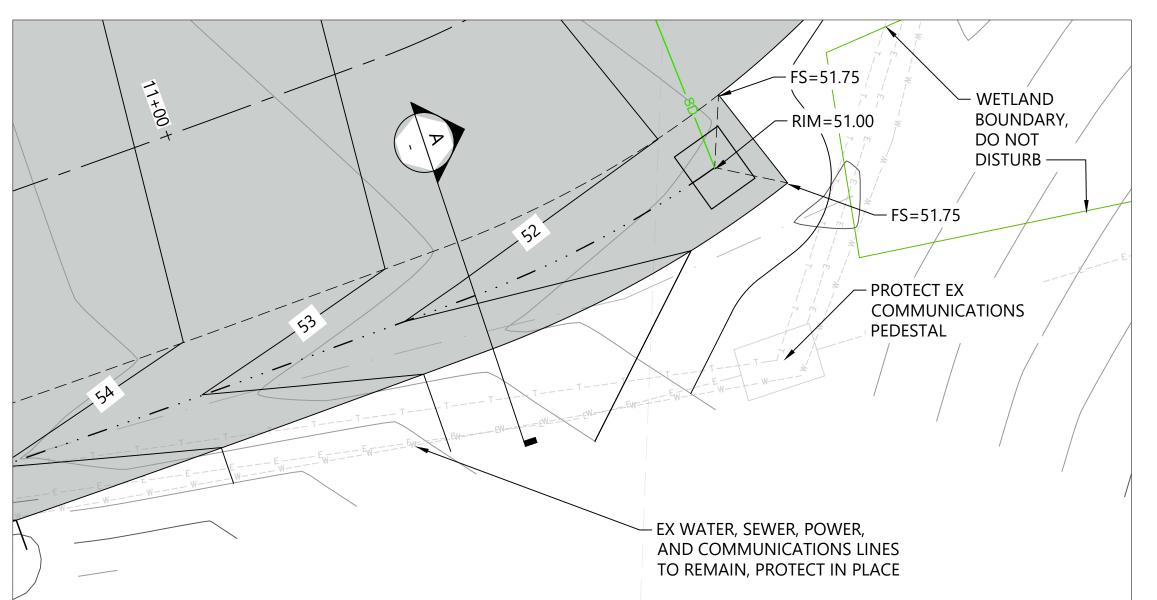


2 TYPICAL PAVEMENT REPAIR DETAIL RD-1 SCALE: NTS

DAMAGE TO EXISTING ASPHALT SHALL BE REPAIRED PRIOR TO OVERLAY. VERIFY LOCATIONS FOR REPAIR BY WALKING THE ROADWAY WITH OWNER PRIOR TO OVERLAY.

2. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS HAVE NOT BEEN FIELD VERIFIED. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS IS SHOWN BASED ON PARK AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AS REQUIRED TO COMPLETE THE WORK.

WHERE DAMAGE HAS BEEN CAUSE BY A ROOT, CUT THE ROOT AT THE EDGE OF THE ROADWAY AND REMOVE THE ROOT COMPLETELY FROM UNDER THE ROADWAY. INSTALL MIN 80 MIL TREE ROOT BARRIER OVER REMAINING ROOT. VERIFY ROOT REMOVAL WITH OWNER'S ARBORIST PRIOR TO CUTTING ANY TREE ROOTS FOR PAVEMENT REPAIR.



END OF SWALE DETAIL

RD-2 SCALE: 1" = 3'

REQUIREMENTS, SEE SHEET G-3.  $_{f \square}$  3" HMA CL 1/2" , PG 64-22  $\,$  1H:1V MAX -– 3" HMA CL 1" , PG 64-22

- 1H:1V MAX 1H:1V MAX

TYPICAL SWALE SECTION SCALE: NTS

**JOINT WITH NEW PAVEMENT** NOTES:

**UTILITY LOCATIONS:** 

/FAQS/PDF/UTILITY.PDF).

ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION, PROTECTION,

INSTALLATION, AND RELOCATION OF

UTILITIES SHALL COMPLY WITH BNSF'S

(HTTP://WWW.BNSF.COM/COMMUNITIES

UTILITY ACCOMMODATION MANUAL

FOR ALL WORK OUTSIDE THE BNSF

RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN

TWO (2) BUSINESS DAYS BEFORE

DEMOLITION WORK. FOR ADDITIONAL

1. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS HAVE NOT BEEN FIELD VERIFIED. THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AND BASE MATERIALS IS SHOWN BASED ON PARK AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DEPTH AND THICKNESS OF EXISTING PAVEMENT AS REQUIRED TO COMPLETE THE WORK.

2. WHERE ROOTS MUST BE CUT TO ACCOMMODATE PAVEMENT SECTION, PLACE 12" DEEP ROOT BARRIER PANELS FOR MIN. 10 FOOT LENGTH ALONG UPSLOPE EDGE OF PAVEMENT.

|         | CONTROL POI            | NTS (ROAD CENTE          | R LINE)      |
|---------|------------------------|--------------------------|--------------|
| POINT # | NORTHING               | EASTING                  | DESCRIPTION  |
| 1000    | 316520.93              | 1272208.27               | 0+00.0 - BOA |
| 1001    | 316547.71              | 1272150.64               | 0+39.2 - RP  |
| 1002    | 316559.12              | 1272199.32               | 0+39.2 - PC  |
| 1003    | 316563.03              | 1272198.23               | 0+43.3 - MID |
| 1004    | 316566.85              | 1272196.83               | 0+47.4 - PT  |
| 1005    | 316537.57              | 1271992.48               | 0+98.5 - RP  |
| 1006    | 316614.11              | 1272177.25               | 0+98.5 - PC  |
| 1007    | 316621.28              | 1272174.12               | 1+06.3 - MID |
| 1008    | 316628.32              | 1272170.71               | 1+14.2 - PT  |
| 1009    | 316435.47              | 1271707.82               | 1+52.3 - RP  |
| 1010    | 316662.35              | 1272153.38               | 1+52.3 - PC  |
| 1011    | 316666.91              | 1272151.03               | 1+57.5 - MID |
| 1012    | 316671.45              | 1272148.63               | 1+62.6 - PT  |
| 1013    | 316932.56              | 1272575.99               | 1+91.1 - RP  |
| 1014    | 316696.58              | 1272135.18               | 1+91.1 - PC  |
| 1015    | 316713.39              | 1272126.58               | 2+10.0 - MID |
| 1016    | 316730.52              | 1272118.62               | 2+28.9 - PT  |
| 1017    | 316825.77              | 1272295.19               | 2+44.7 - RP  |
| 1018    | 316744.96              | 1272112.24               | 2+44.7 - PC  |
| 1019    | 316756.26              | 1272107.66               | 2+56.9 - MID |
| 1020    | 316767.81              | 1272107.00               | 2+69.1 - PT  |
| 1020    | 316814.07              | 1272142.01               | 3+02.3 - RP  |
| 1021    | 316799.58              | 1272094.16               | 3+02.3 - PC  |
| 1022    | 316834.43              | 1272094.10               | 3+37.9 - MID |
| 1023    | 316859.35              | 1272120.81               | 3+73.6 - PT  |
|         | 316777.16              |                          |              |
| 1025    |                        | 1272181.09<br>1272138.69 | 3+93.3 - RP  |
| 1026    | 316867.72<br>316870.23 |                          | 3+93.3 - PC  |
| 1027    |                        | 1272144.51               | 3+99.7 - MID |
| 1028    | 316872.36              | 1272150.48               | 4+06.0 - PT  |
| 1029    | 317840.14              | 1271893.47               | 4+57.6 - RP  |
| 1030    | 316888.15              | 1272199.59               | 4+57.6 - PC  |
| 1031    | 316900.53              | 1272235.72               | 4+95.8 - MID |
| 1032    | 316451.36              | 1272460.30               | 5+34.0 - RP  |
| 1033    | 316914.29              | 1272271.35               | 5+34.0 - PRC |
| 1034    | 316918.52              | 1272282.07               | 5+45.5 - MID |
| 1035    | 316922.50              | 1272292.89               | 5+57.0 - PT  |
| 1036    | 316792.05              | 1272373.76               | 5+89.6 - RP  |
| 1037    | 316933.39              | 1272323.54               | 5+89.6 - PC  |
| 1038    | 316940.94              | 1272355.53               | 6+22.5 - MID |
| 1039    | 316941.34              | 1272388.39               | 6+55.4 - PT  |
| 1040    | 316987.08              | 1272434.24               | 6+96.6 - RP  |
| 1041    | 316937.32              | 1272429.36               | 6+96.6 - PC  |
| 1042    | 316937.12              | 1272436.12               | 7+03.4 - MID |
| 1043    | 316937.83              | 1272442.84               | 7+10.1 - PT  |
| 1044    | 315964.53              | 1272682.37               | 7+78.6 - RP  |
| 1045    | 316949.61              | 1272510.25               | 7+78.6 - PC  |
| 1046    | 316951.67              | 1272522.53               | 7+91.0 - MID |
| 1047    | 316953.59              | 1272534.83               | 8+03.5 - PT  |
| 1048    | 317057.30              | 1272552.32               | 8+36.1 - RP  |
| 1049    | 316958.40              | 1272567.07               | 8+36.1 - PC  |

|      | CONTROL POI | N13 (ROAD CENTE | K LINE)       |
|------|-------------|-----------------|---------------|
| 1050 | 316959.60   | 1272573.63      | 8+42.7 - MID  |
| 1051 | 316961.24   | 1272580.10      | 8+49.4 - PT   |
| 1052 | 317066.62   | 1272584.52      | 8+82.9 - RP   |
| 1053 | 316970.55   | 1272612.30      | 8+82.9 - PC   |
| 1054 | 316972.28   | 1272617.70      | 8+88.6 - MID  |
| 1055 | 316974.31   | 1272622.98      | 8+94.3 - PT   |
| 1056 | 316533.49   | 1272865.01      | 9+48.1 - RP   |
| 1057 | 316995.03   | 1272672.72      | 9+48.1 - PC   |
| 1058 | 317002.95   | 1272692.96      | 9+69.9 - MID  |
| 1059 | 317009.99   | 1272713.53      | 9+91.6 - PT   |
| 1060 | 316538.66   | 1272881.29      | 10+08.7 - RP  |
| 1061 | 317015.16   | 1272729.81      | 10+08.7 - PC  |
| 1062 | 317018.81   | 1272741.81      | 10+21.2 - MID |
| 1063 | 317022.16   | 1272753.90      | 10+33.8 - PT  |
| 1064 | 317510.91   | 1272646.46      | 10+54.4 - RP  |
| 1065 | 317027.42   | 1272773.85      | 10+54.4 - PC  |
| 1066 | 317033.91   | 1272796.36      | 10+77.9 - MID |
| 1067 | 317041.46   | 1272818.54      | 11+01.3 - PT  |
| 1068 | 317066.88   | 1272815.26      | 11+07.0 - RP  |
| 1069 | 317043.41   | 1272823.86      | 11+07.0 - PC  |
| 1070 | 317049.87   | 1272833.58      | 11+18.7 - MID |
| 1071 | 317070.10   | 1272803.96      | 11+30.5 - RP  |
| 1072 | 317060.04   | 1272839.30      | 11+30.5 - PCC |
| 1073 | 317099.68   | 1272825.76      | 11+75.1 - MID |
| 1074 | 317100.89   | 1272783.89      | 12+19.7 - PT  |
| 1075 | 317194.73   | 1272708.10      | 12+31.9 - RP  |
| 1076 | 317094.20   | 1272773.63      | 12+31.9 - PC  |
| 1077 | 317079.27   | 1272740.81      | 12+68.1 - MID |
| 1078 | 317074.77   | 1272705.03      | 13+04.3 - PT  |
| 1079 | 317077.21   | 1272609.35      | 14+00.0 - EOA |
| 1080 | 316563.09   | 1272198.39      | 0+43.3 - CPI  |
| 1081 | 316621.35   | 1272174.26      | 1+06.3 - CPI  |
| 1082 | 316666.92   | 1272151.05      | 1+57.5 - CPI  |
| 1083 | 316713.24   | 1272126.26      | 2+10.0 - CPI  |
| 1084 | 316756.13   | 1272107.31      | 2+56.9 - CPI  |
| 1085 | 316841.00   | 1272081.61      | 3+45.5 - CPI  |
| 1086 | 316870.41   | 1272144.44      | 3+99.7 - CPI  |
| 1087 | 316899.84   | 1272235.97      | 4+95.8 - CPI  |
| 1088 | 316918.64   | 1272282.03      | 5+45.5 - CPI  |
| 1089 | 316944.60   | 1272355.08      | 6+23.0 - CPI  |
| 1090 | 316936.66   | 1272436.14      | 7+03.4 - CPI  |
| 1091 | 316951.75   | 1272522.51      | 7+91.0 - CPI  |
| 1092 | 316959.38   | 1272573.68      | 8+42.8 - CPI  |
| 1093 | 316972.13   | 1272617.75      | 8+88.6 - CPI  |
| 1094 | 317003.40   | 1272692.80      | 9+69.9 - CPI  |
| 1095 | 317018.96   | 1272741.77      | 10+21.3 - CPI |
| 1096 | 317033.39   | 1272796.52      | 10+77.9 - CPI |
| 1097 | 317047.79   | 1272835.82      | 11+19.7 - CPI |
| 1098 | 317154.53   | 1272866.18      | 12+28.7 - CPI |
| 1099 | 317073.81   | 1272742.35      | 12+69.2 - CPI |
|      |             |                 |               |

CONTROL POINTS (ROAD CENTER LINE)

|         | CONTRO    | OL POINTS (PA<br>SEE SHEET R | •                          | CONTROL POINTS (PARKING AREA) SEE SHEET RD-8 |           |            |                            |  |
|---------|-----------|------------------------------|----------------------------|--|-----------|------------|----------------------------|--|
| POINT # | NORTHING  | EASTING                      | DESCRIPTION                | POINT #                                      | NORTHING  | EASTING    | DESCRIPTION                |  |
| 1200    | 317087.88 | 1272783.16                   | EOP STA 12+27.37, 10.50'LT | 1211   | 317110.02 | 1272787.98 | EOP STA 12+12.42, 6.25'RT  |  |
| 1202    | 317065.61 | 1272652.16                   | EOP STA 13+56.92, 10.50'LT | 1212   | 317098.82 | 1272769.27 | EOP STA 12+33.09, 6.25'RT  |  |
| 1203    | 317079.61 | 1272651.91                   | EOP STA 13+57.52, 3.49'RT  | 1213   | 317085.73 | 1272740.65 | EOP STA 12+66.39, 6.25'RT  |  |
| 1204    | 317079.55 | 1272654.53                   | EOP STA 13+54.89, 3.49'RT  | 1214   | 317088.69 | 1272736.79 | EOP STA 12+69.51, 10.14'RT |  |
| 1205    | 317082.47 | 1272657.61                   | EOP STA 13+51.89, 6.49'RT  | 1215   | 317104.72 | 1272737.20 | EOP STA 12+64.69, 25.40'RT |  |
| 1206    | 317105.50 | 1272658.20                   | EOP STA 13+51.89, 29.52'RT | 1216   | 317107.59 | 1272740.83 | EOP STA 12+58.13, 26.92'RT |  |
| 1207    | 317118.74 | 1272664.40                   | EOP STA 13+46.03, 42.92'RT | 1217   | 317104.33 | 1272768.01 | EOP STA 12+31.07, 11.56'RT |  |
| 1208    | 317115.50 | 1272676.84                   | EOP STA 13+33.52, 40.00'RT | 1218   | 317043.25 | 1272804.83 | EOP STA 10+88.87, 6.25'LT  |  |
| 1209    | 317114.20 | 1272727.63                   | EOP STA 12+72.67, 37.14'RT | 1219   | 317042.29 | 1272834.54 | EOP STA. 11+14.80, 6.25'RT |  |
| 1210    | 317108.42 | 1272775.59                   | EOP STA 12+22.49, 10.84'RT |  |           |            |                            |  |

DESIGNED BY: DR

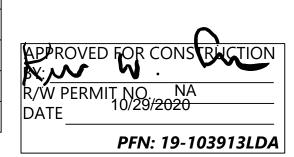
CHECKED BY: DR

APPROVED BY: DR

DRAWN BY: CH/TG

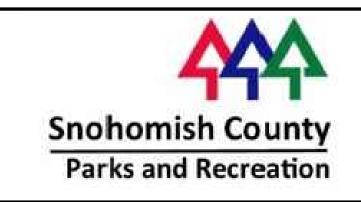
SCALE: AS NOTED

DATE: SEPTEMBER 2020



100% CONSTRUCTION DRAWINGS/BID SET





| A STATE OF THE STA |     |      |    |       | REVISIONS   |
|--|-----|------|----|-------|-------------|
| ON OF WASHINGTON   | REV | DATE | BY | APP'D | DESCRIPTION |
| 40265 REGISTERED ROONAL ENGL   |     |      |    |       |             |

**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** 

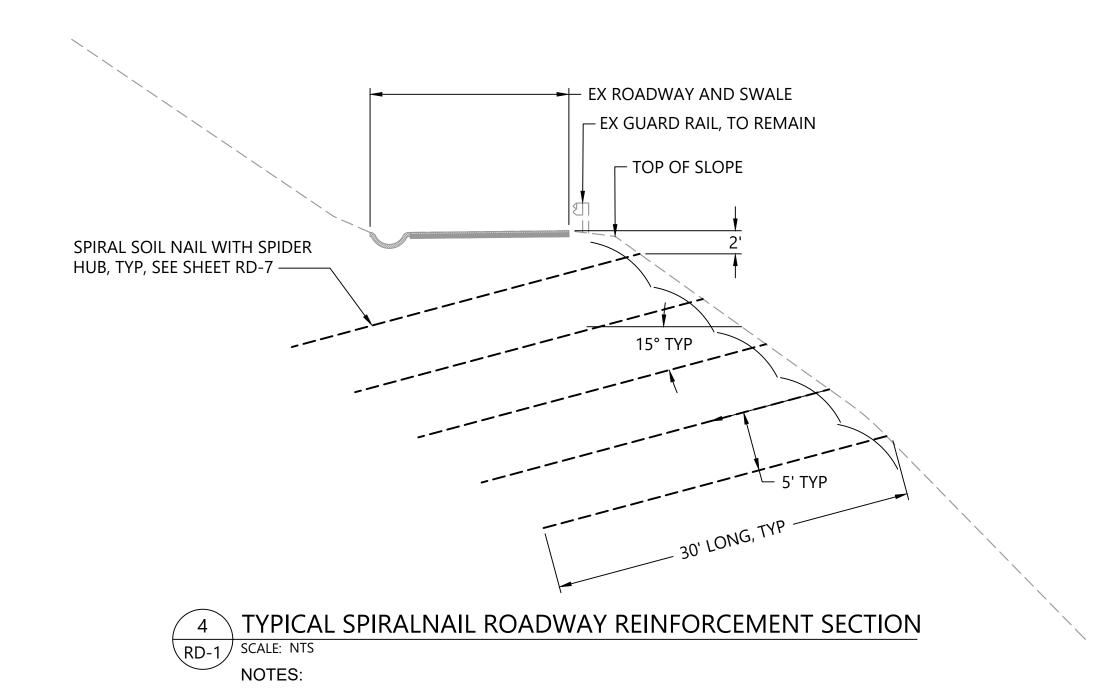
PFN 19-103913LDA

RD-5

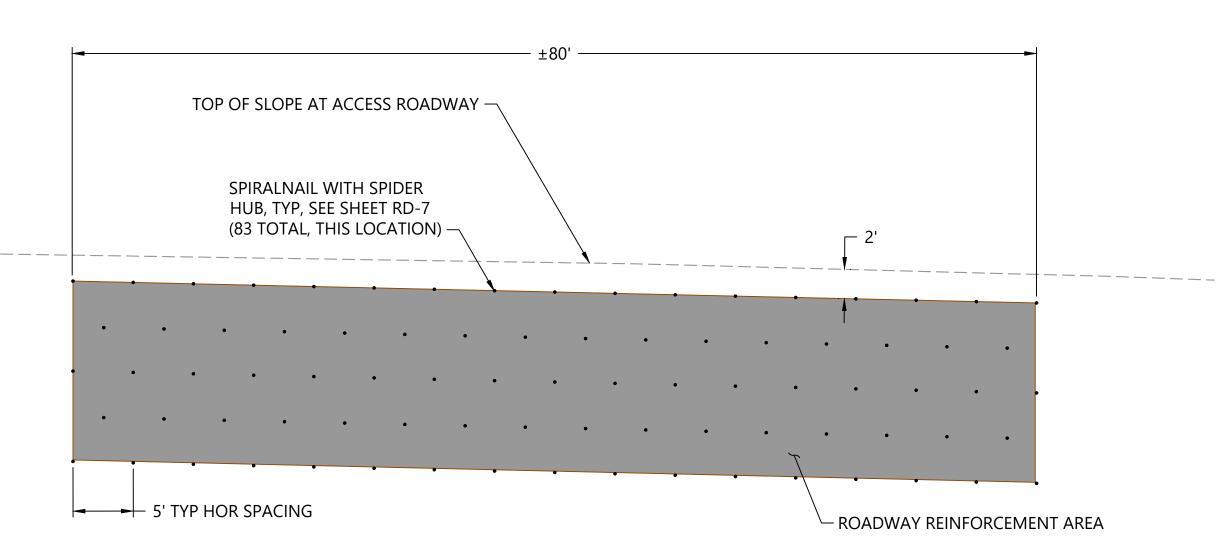
**ROADWAY AND PARKING AREA DETAILS** 

SHEET # **39**OF **81** 

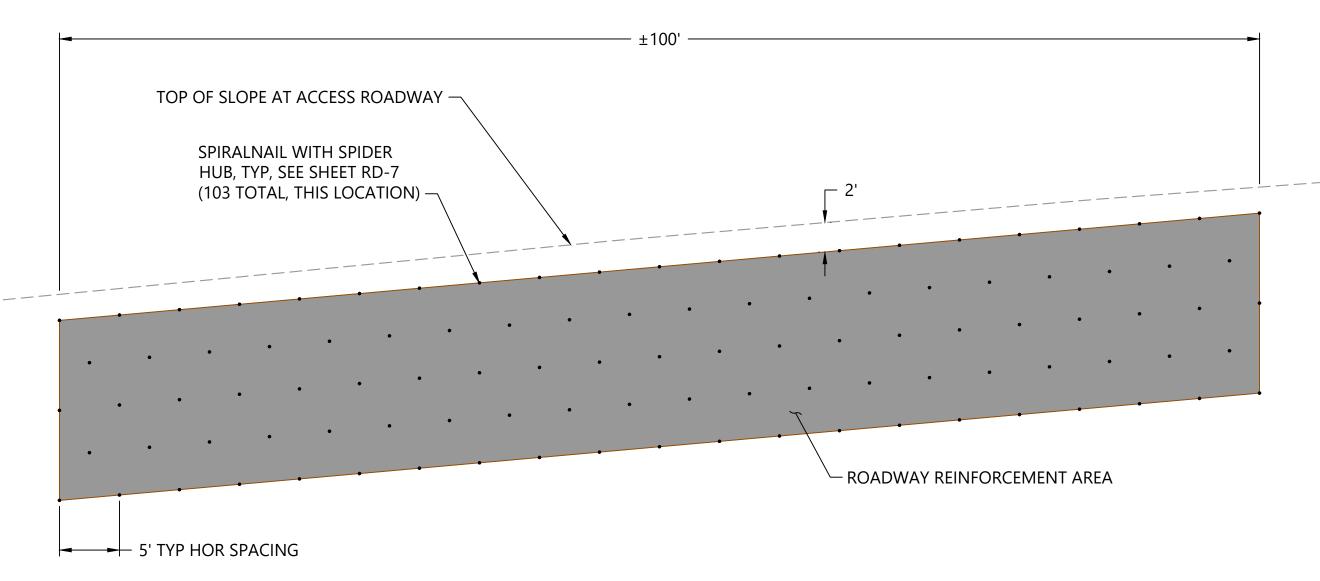
#### SECTION 5, TOWNSHIP 27 N., RANGE 4 E



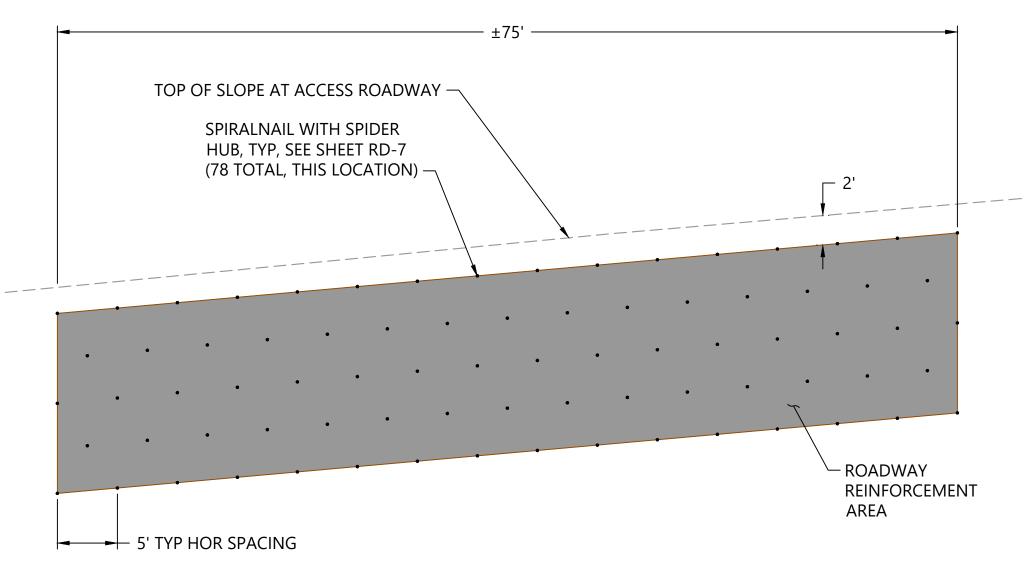
- 1. ROADWAY SLOPE AREAS TO BE REINFORCED ARE SHOWN ON SHEETS RD-1 AND RD-2. EXTENT OF AREAS TO BE REINFORCED SHALL BE CONFIRMED WITH THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO COMMENCING THE WORK.
- 2. THE EXACT LOCATION AND SPACING OF SPIRALNAILS MAY BE MODIFIED IN THE FIELD, UNDER THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER, AS NEEDED TO AVOID TREES, ROOTS, AND OTHER OBSTRUCTIONS.



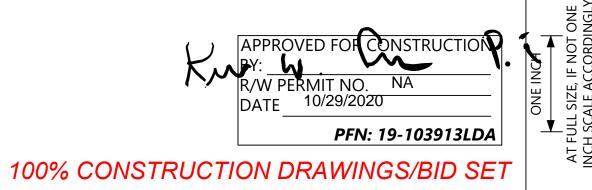
A ROADWAY REINFORCEMENT ELEVATION (STA 2+44.37 TO STA 3+24.37) RD-1 SCALE: NTS



B ROADWAY REINFORCEMENT ELEVATION (STA 5+38.91 TO STA 6+38.91) RD-1 SCALE: NTS



ROADWAY REINFORCEMENT ELEVATION (STA 9+42.87 TO STA 10+17.87) RD-2 SCALE: NTS



**MEADOWDALE BEACH PARK** 

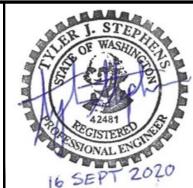
**AND ESTUARY DESIGN** PFN 19-103913LDA

RD-6

SHEET # 40of 81

**EUISHANNON & WILSON** 



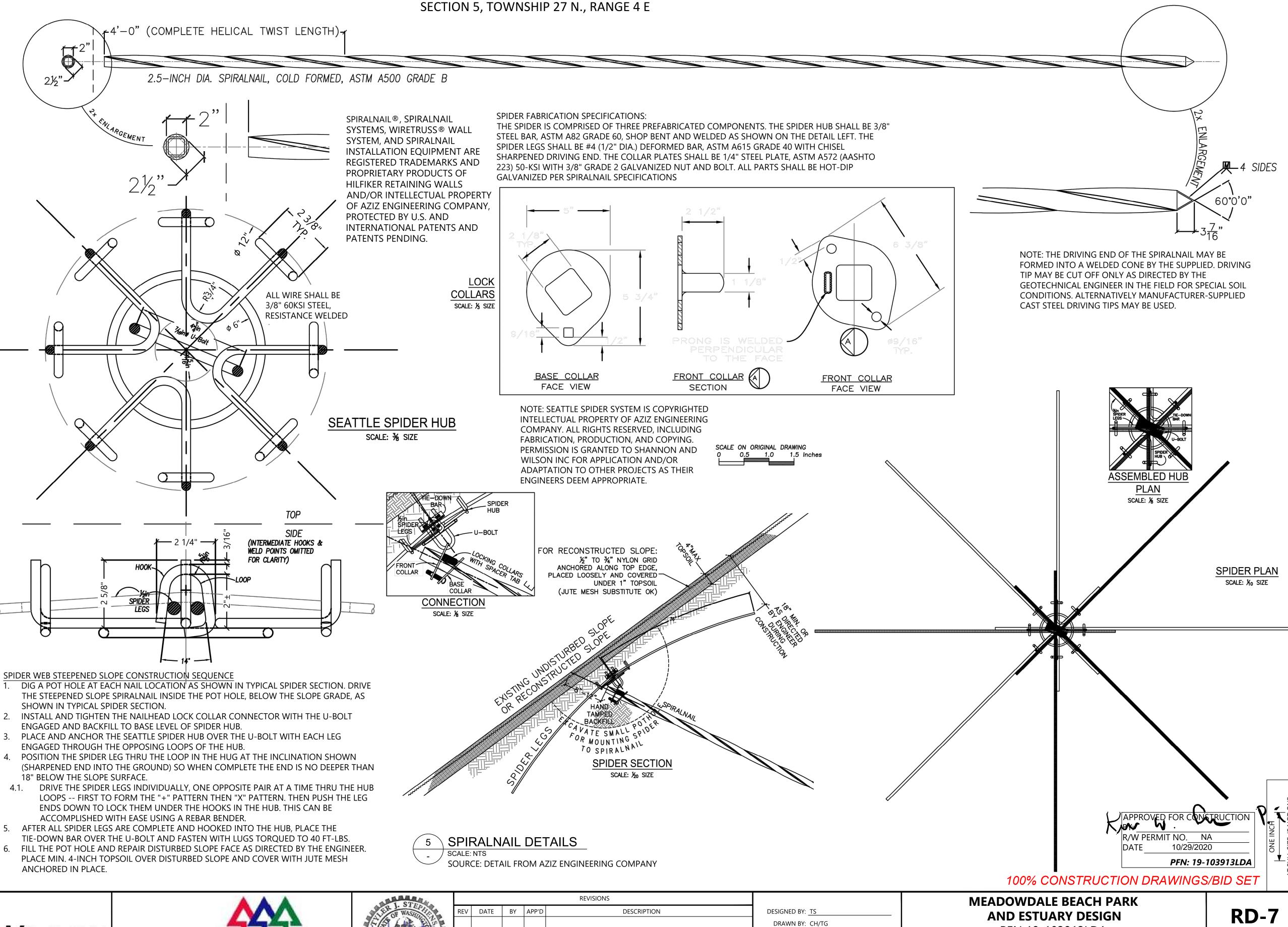


| REV | DATE | BY | APP'D | DESCRIPTION | DESIGNED BY: | TS             |
|-----|------|----|-------|-------------|--------------|----------------|
|     |      |    |       |             | DRAWN BY:    | CH/TG          |
|     |      |    |       |             | CHECKED BY:  | DR             |
|     |      |    |       |             | APPROVED BY: | TS             |
|     |      |    |       |             | SCALE:       | AS NOTED       |
|     |      |    |       |             | DATE:        | SEPTEMBER 2020 |
|     |      |    |       |             | 1            |                |

- 2. 2.5-INCH DIAMETER SPIRALNAILS® SHALL BE HILFIKER SHOP FABRICATED SQUARE-SECTION SPIRALLED STEEL TUBING (ASTM A500 GRADE B (42kai, 0.218-INCH WALL THICKNESS) COLD FORMED FROM 2-INCH DIAMETER PIPE TO PRODUCE ONE COMPLETE SPIRAL TWIST PER EACH 4-ft TUBE LENGTH; WITH A SHOP WELDED CONE FORMED AT THE TIP. SPIRALNAIL AND ALL ITS COMPONENTS SHALL BE HOT-DIP GALVANIZED SOON AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (AASHTO M-111) (2 OZ/SF MINIMUM COATING THICKNESS) OR EQUAL.
- 3. FOR SLOPE CONFINEMENT, SPIRALNAILS AFTER DRIVEN SHALL BE TIED TO SEATTLE STYLE SPIDERS SYSTEM, 6-ft FLAT DIAMETER AS MEASURED TO LEG ENDS. SEE THIS SHEET FOR SPECIFICATIONS.
- 4. THE MANUFACTURER SHALL PROVIDE A CERTIFICATE OF COMPLIANCE FOR ALL FABRICATED WALL MATERIALS AND COMPONENTS TO HAVE BEEN FABRICATED AND TREATED AT THE TIME OF CONSTRUCTION MEETING THE REQUIREMENTS OF APPLICABLE ASTM AND AASHTO SPECIFIED STANDARDS HERE AND ELSEWHERE IN THE PLANS.
- 5. THE ENGINEER WILL LOAD TEST SELECT SPIRALNAILS AFTER DRIVEN IN PLACE TO ASSURE ADEQUATE DESIGN YIELD STRENGTH AT LOCATIONS TO BE SELECTED AFTER OBSERVING THE NAIL DRIVING RESISTANCE. ADDITIONAL SPIRALNAILS SHALL BE TESTED, AS DETERMINED BY THE ENGINEER IF SOIL TYPES ENCOUNTERED VARY FROM DESIGN. THE TESTING SHALL TAKE PLACE AT LEAST 24 HOURS AFTER THE SPIRALNAIL IS DRIVEN. THE LOAD TEST SHALL CONSIST OF SUSTAINED LOADS TO RESIDUAL DISPLACEMENT (TYPICALLY 10 MINUTES) APPLIED IN APPROXIMATELY 10% INCREMENTS OF THE DESIGN YIELD STRENGTH (Fy) OF THE SPIRALNAIL. THE INCREMENTAL LOADING SHALL BE APPLIED UNTIL 150-PERCENT OF THE Fy IS ACHIEVED OR UNTIL PULLOUT FAILURE IS GENERATED. FAILURE OCCURS WHEN A STRAIN DEFLECTION GREATER THAN 2.0 INCH IS OBSERVED OVER A 10-MINUTE PERIOD UNDER THE MAXIMUM SUSTAINED LOAD. IN CASE OF FAILURE, THE ADJACENT NAILS SHALL BE TESTED UNDER MAX LOAD WHILE THE ENGINEER REEVALUATE SPIRALNAILING DESIGN. TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT TESTING PROCEDURE AND USING THE APPARATUS SUPPLIED BY THE SPIRALNAIL MANUFACTURER. THE LOAD TESTING APPARATUS SHALL BE IN CUSTODY OF THE ENGINEER FOR THE DURATION OF CONSTRUCTION. A TYPICAL SPIRALNAIL PULLOUT LOAD TEST TAKES UP TO ONE DAY TO COMPLETE IN THE FIELD.

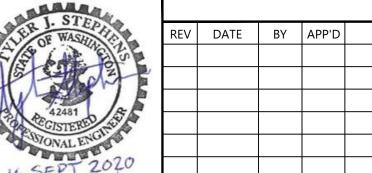
DRIVING HAMMER, CONTROLS AND PULLOUT TESTER ARE AVAILABLE FROM THE SUPPLIER. THE INSTALLER SHALL PROVIDE HYDRAULIC POWER AND THE HOISTING SYSTEM SUCH AS A SUITABLE EXCAVATOR OR CRANE. CONTACT THE SUPPLIER BELOW TO COORDINATE THE HAMMER WEIGHT. MINIMUM HYDRAULIC POWER SUPPLY AND FITTING SIZES. SPIRALNAIL®, SEATTLE SPIDERS ARE MANUFACTURED BY:

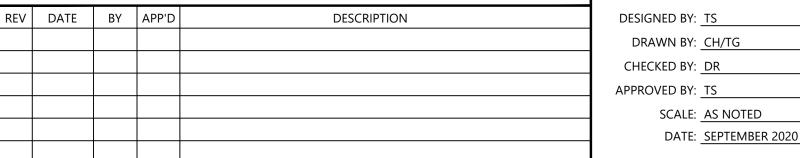
HILFIKER RETAINING WALLS 3900 BROADWAY **EUREKA, CA 95502** (800) 762-8962 | (707) 443-2981 FAX HILFIKER.COM









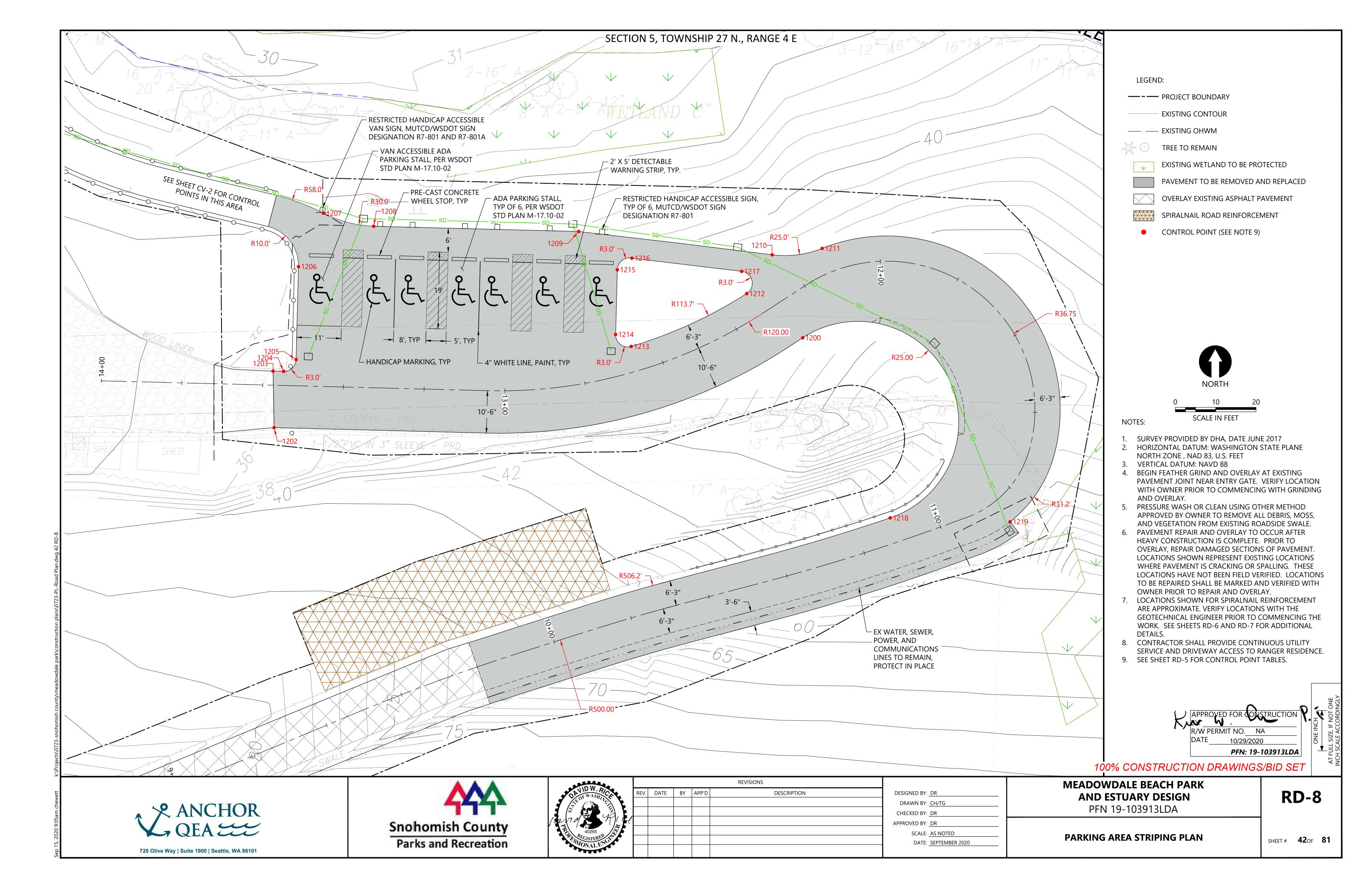


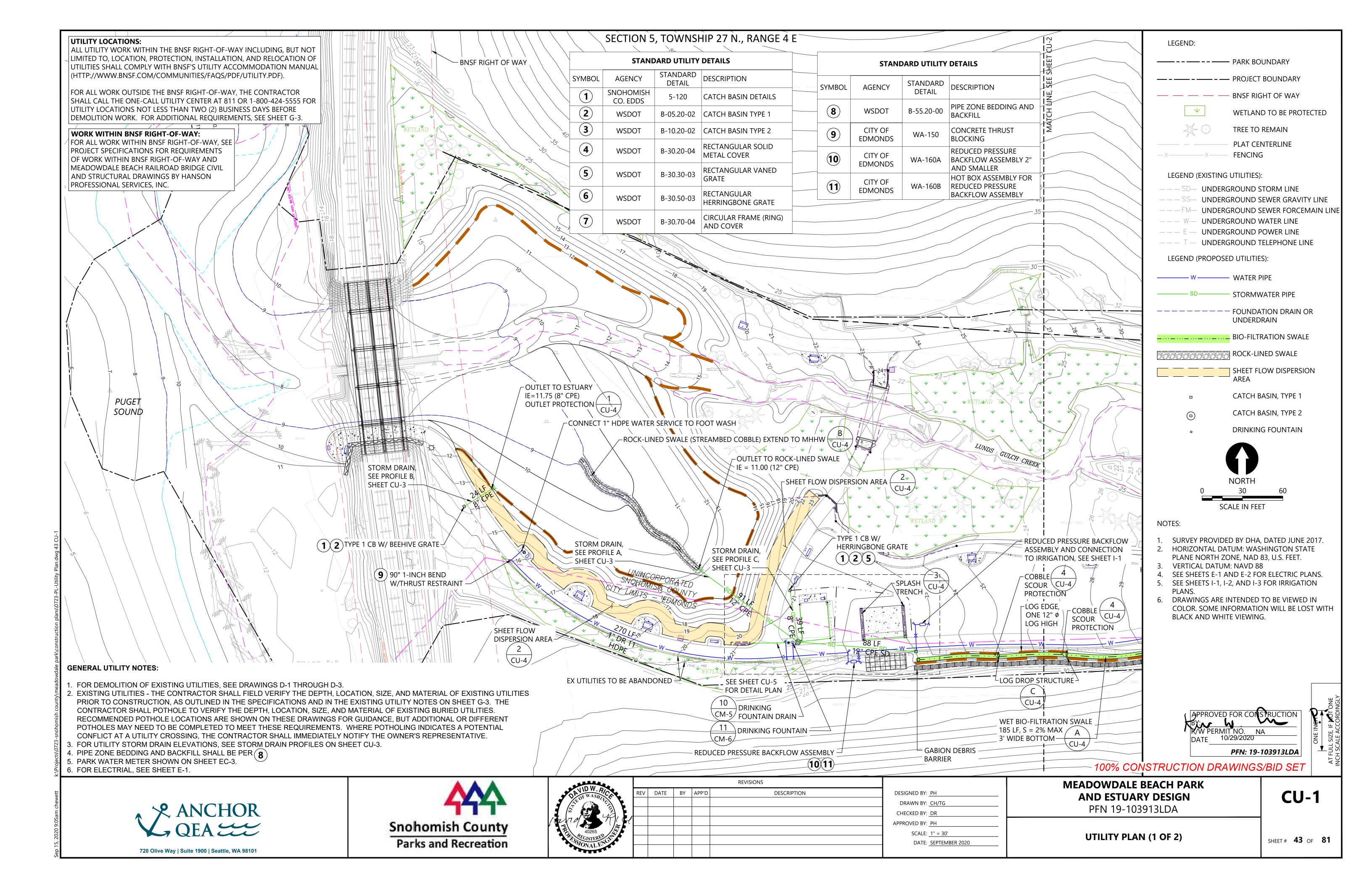
SCALE: AS NOTED

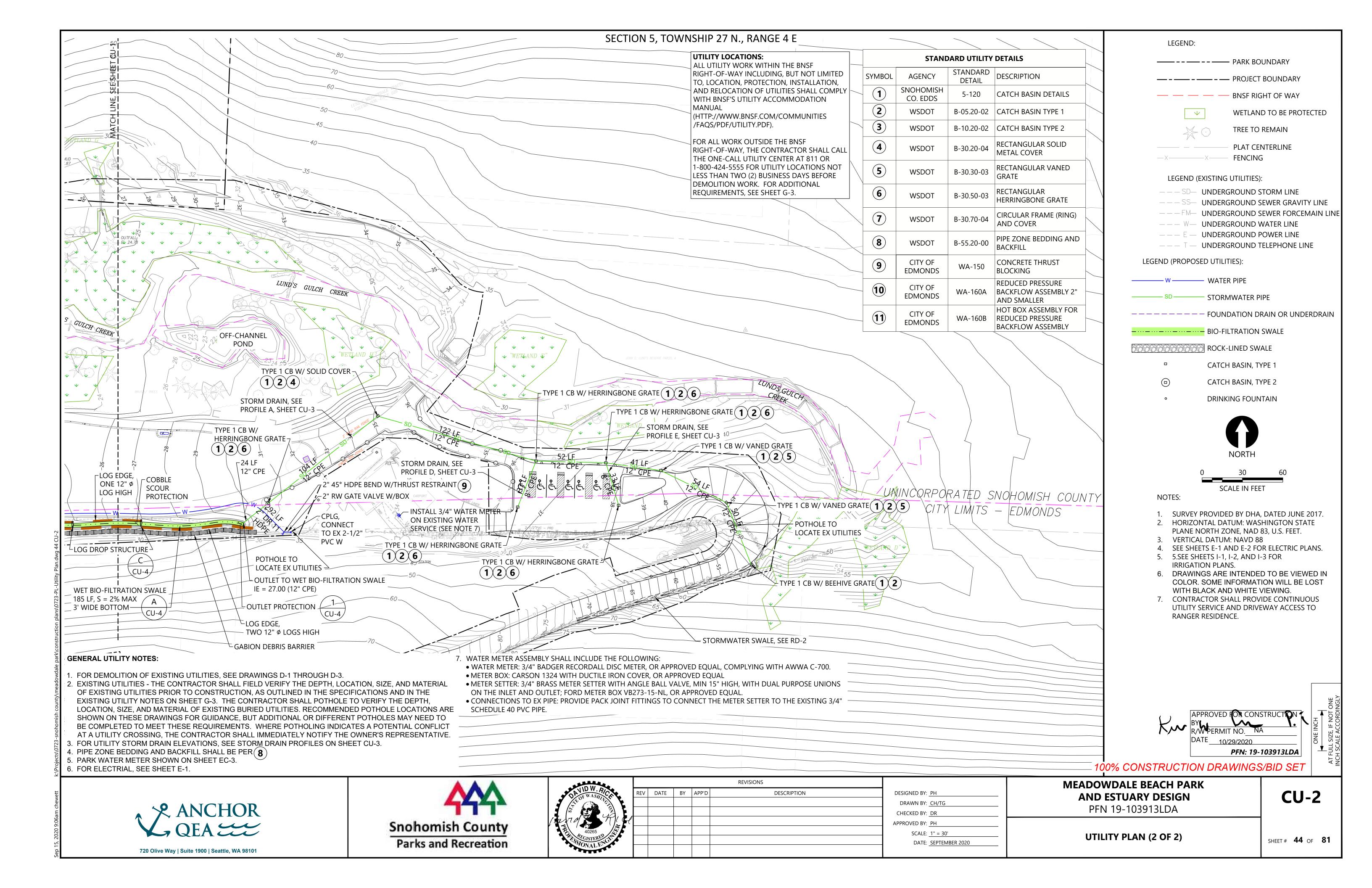
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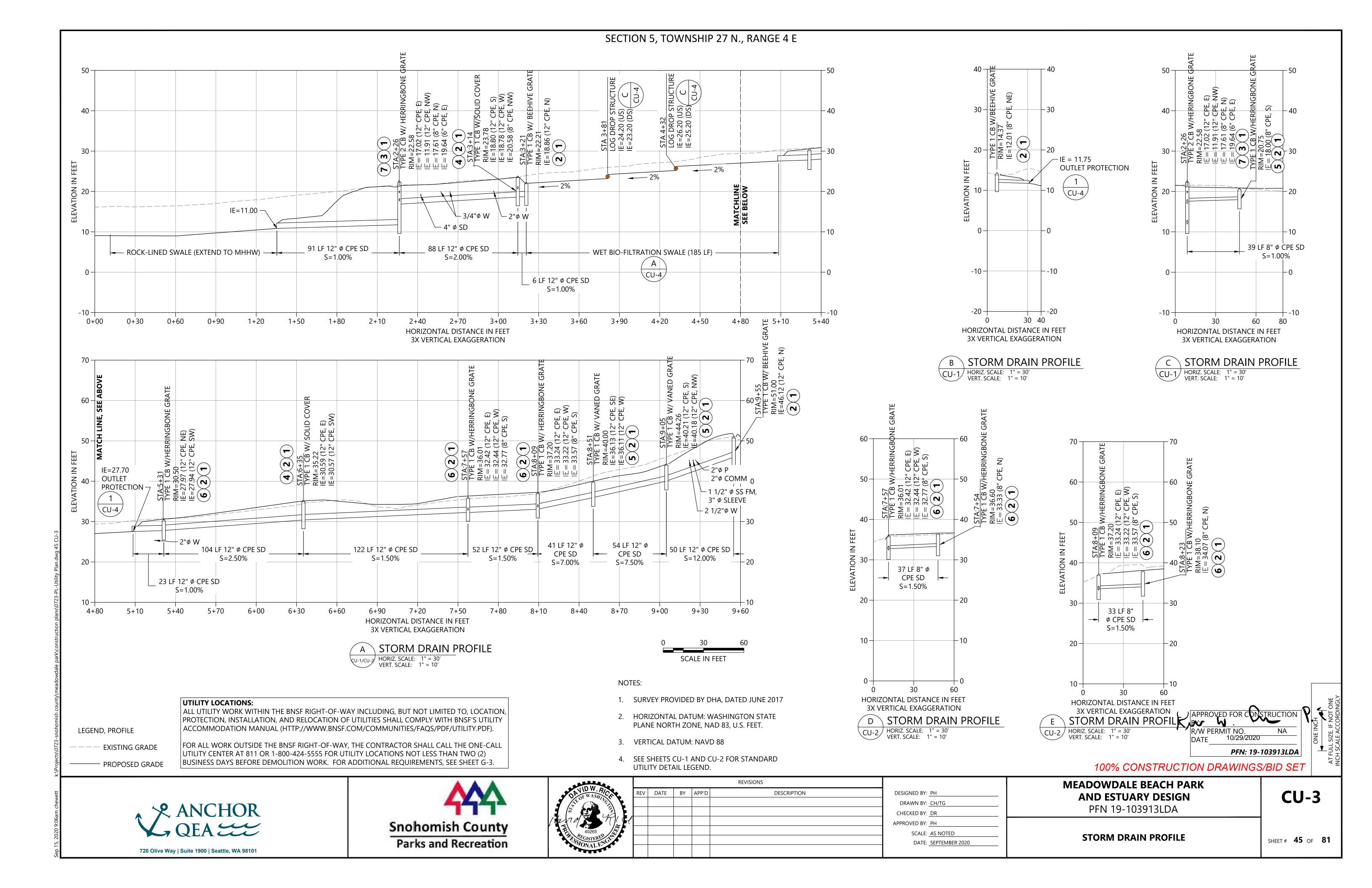
SPIRALNAIL ROADWAY REINFORCEMENT DETAILS

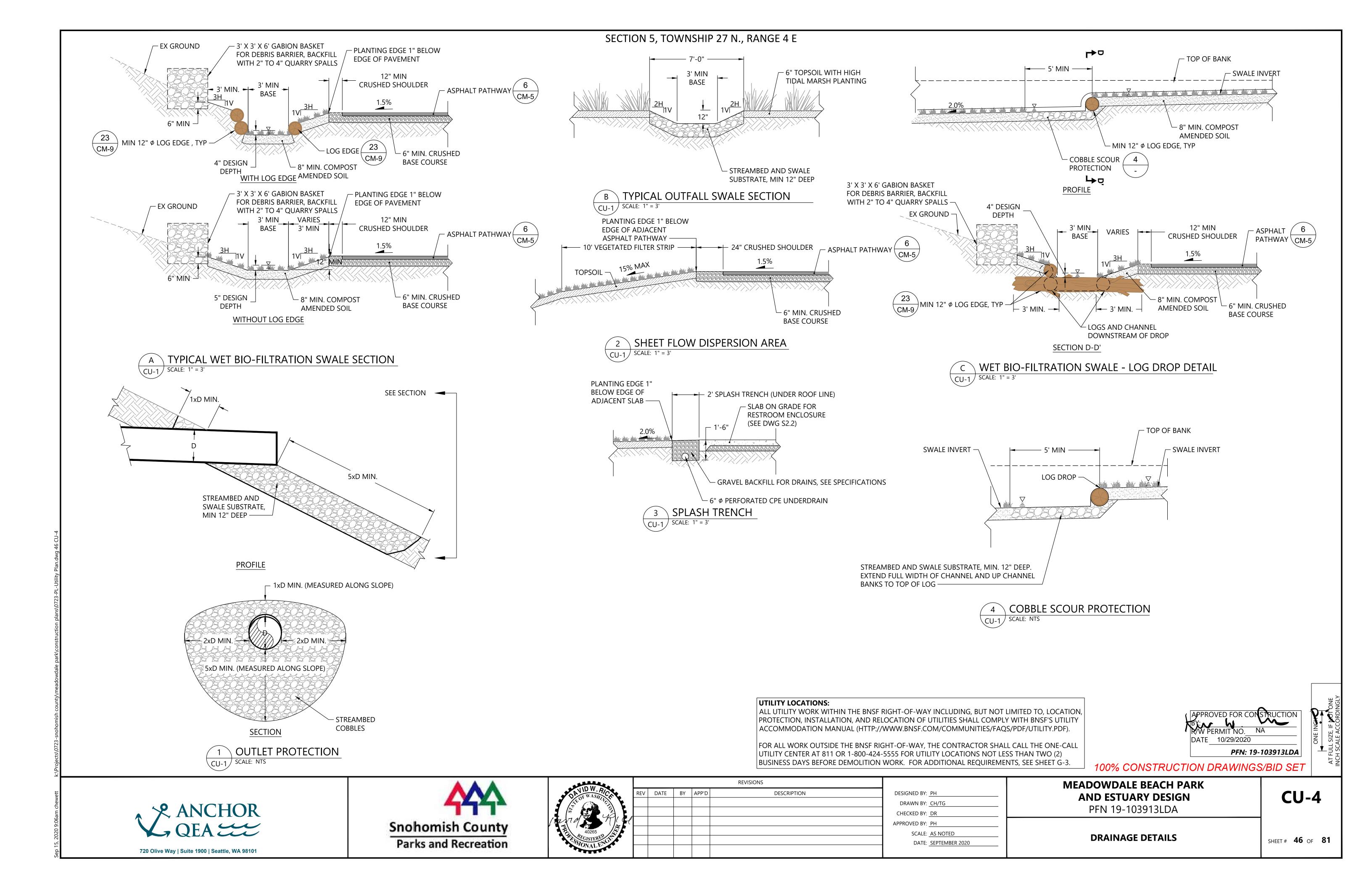
SHEET # 410F 81











#### GENERAL NOTES

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE 2015 EDITION OF THE IBC AND THE 2015 INTERNATIONAL **ENERGY CONSERVATION CODE AS ADOPTED BY WA** STATE.
- 2. ALL APPLICABLE CODES. ORDINANCES AND MINIMUM STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER DRAWINGS AND NOTES.
- 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO STARTING ANY CONSTRUCTION OF THE AREA CONCERNED. DO NOT SCALE DRAWINGS
- 4. DIMENSIONS ARE TO FACE OF FRAMING OR CONCRETE U.O.N.
- 5. PARTITIONS AND WALLS NOT OTHERWISE DIMENSIONED SHALL BE LOCATED FLUSH WITH REFERENCE TO ADJACENT WALL FACE.
- 6. WHERE ON ANY OF THE DRAWINGS OR DETAILS, A PORTION OF THE WORK IS SHOWN AND/OR DETAILED, AND THE REMAINDER IS INDICATED IN OUTLINE. THE PARTS SHOWN AND/OR DETAILED SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK.
- 7. PRIOR TO AND DURING THE WORK, CONTRACTOR SHALL VERIFY CONDITIONS: ANY CONDITIONS INCONSISTENT OR PROBLEMATIC WITH REGARD TO THE INTENT OF THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.
- 8. COORDINATE AND PROVIDE REQUIRED PENETRATIONS (AND PATCHING OF EXISTING TO MATCH) WITH INDIVIDUAL SUBCONTRACTORS TO SUIT NEW WORK.
- 9. VERTICAL DIMENSIONS ARE TYPICALLY REFERENCED FROM STRUCTURAL SLAB U.N.O.
- 10. AT FIRE RATED WALLS OR CEILING ASSEMBLIES WHERE PENETRATIONS FOR MECH., ELECT., OR PLUMBING OCCUR, PROVIDE APPROVED THRU PENETRATION FIRE STOP ASSEMBLIES. MAINTAIN REQUIRED RATING OF ASSEMBLIES.
- 11. CONTRACTOR TO ASSUME ALL MATERIALS AS NEW UNLESS NOTED AS "EXISTING".
- 12. PRESSURE TREAT ALL WOOD IN CONTACT WITH CONCRETE.
- 13. FLASH OPENINGS WITH MIN. 26 GA. STAINLESS STEEL TO ACCEPTABLE INDUSTRY STANDARDS. ALL FLASHING LAP SEAMS TO BE 12" MIN. W/ 2 BEADS OF SEALANT.
- 14. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES THROUGHOUT SITE PRIOR TO EXCAVATION.
- 15. BACKPRIME ALL EXTERIOR WOOD TRIM MATERIAL WHERE PAINTED, SEALER WHERE NOT PAINTED (ALL SIDES, EDGES AND CUT ENDS) PER WWPA AND WRCLA GUIDELINES.
- 16. WEATHER RESISTIVE BARRIER TO HAVE OVERLAP AS DIRECTED BY MFG.
- 17. WEATHER RESISTIVE BARRIER TO BE INSTALLED OVER TOP PLATE PRIOR TO SETTING OF RAFTERS OR ROOF TRUSSES, S.S. FASTENERS WHEN IN CONTACT WITH PT WOOD.

18. STAINLESS STEEL NAILS OR FASTENERS TO USED AT ALL APPLICATIONS WHERE NAILS OR FASTENERS ARE EXPOSED TO EXTERIOR.

#### SCOPE OF WORK

CONSTRUCTION OF NEW COVERED AREA FOR PORTABLE RESTROOMS: REMOVAL AND REPLACEMENT OF EXISTING METAL ROOF PANELS ON EXISTING PICNIC SHELTER, INCLUDING NEW GUTTERS AND DOWNSPOUTS: REMOVAL AND REPLACEMENT OF EXISTING STONE FACING AT COLUMN BASE AT EXISTING PICNIC STRUCTURE.

#### CODE COMPLIANCE

- 2015 INTERNATIONAL BUILDING CODE (IBC) W/ WA STATE **AMENDMENTS**
- ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDING **FACILITIES**
- 2015 WASHINGTON STATE ENERGY CODE (WSEC) (2015 INTERNATIONAL ENERGY CONSERVATION CODE W/ WA STATE AMENDMENTS)
- 2015 INTERNATIONAL FIRE CODE (IFC)
- 2015 NATIONAL ELECTRICAL CODE (NEC)
- 2015 INTERNATIONAL MECHANICAL CODE (IMC)
- 2015 UNIFORM PLUMBING CODE (UPC)

#### PROPOSED RESTROOM ENCLOSURE

PROPOSED USE

COVERED AREA FOR PORTABLE

RESTROOMS

A-3

AREA)

14'-2"

OCCUPANCY

TYPE OF CONSTRUCTION

SPRINKLER SYSTEM NO

**BUILDING AREA** 

OCC.LOAD

628 SF COVERED

NA (RESTROOM NOT OCCUPIED

NUMBER OF STORIES 1 STORY

HEIGHT

#### FIRE RESISTANCE RATING

STRUCTURAL FRAME **NON-RATED** BEARING WALLS, EXT. **NON-RATED** BEARING WALLS, INT. **NON-RATED** NONBEARING WALLS, EXT. **NON-RATED** NONBEARING WALLS, EXT. NON-RATED **NON-RATED** FLOOR CONSTRUCTION ROOF CONSTRUCTION NON-RATED

> APPROVED FOR CONSTRUCTION R/W PERMIT NO.

100% CONSTRUCTION DRAWINGS/BID SET

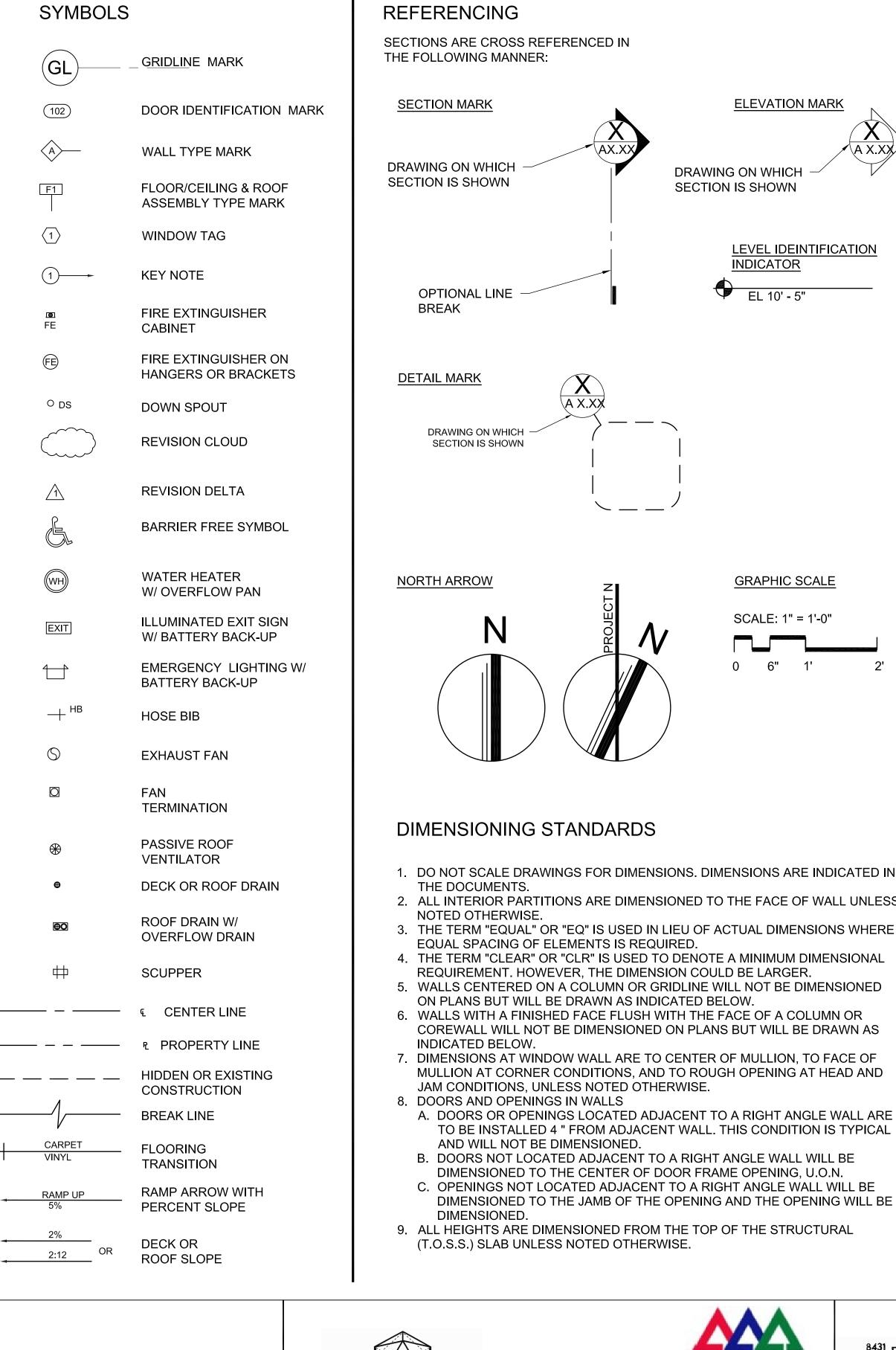
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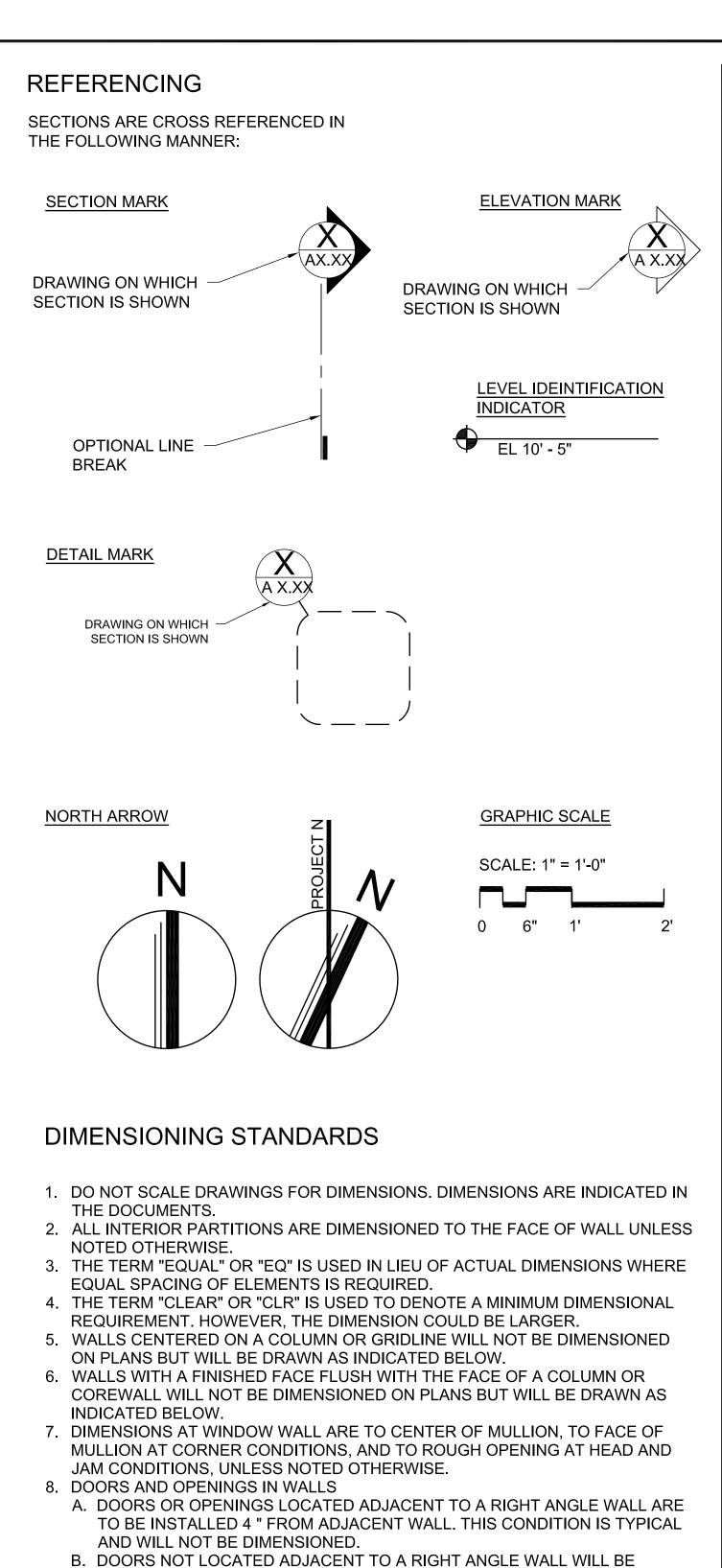




|   |     |      |    |       | REVISIONS   |   |
|---|-----|------|----|-------|-------------|---|
|   | REV | DATE | BY | APP'D | DESCRIPTION |   |
| REGISTERED ARCHITECT  LAURA D. HAFERMANN  STATE OF WASHINGTON |     |      |    |       |             | , |
|   |     |      |    |       |             | 1 |

DATE: AUGUST 2020





## **MATERIALS EARTH SURFACE** SAND / GROUT CONCRETE WOOD OR METAL STUD WALLS **GYPSUM BOARD** CONT. WOOD FRAMING WOOD BLOCKING FINISHED WOOD PLYWOOD BATT INSULATION **RIGID INSULATION** BOARD **BRICK CONCRETE UNIT** MASONRY **STEEL GLASS** RESILIENT TILES

| ABBR  | EVIATIONS                       |        |                     |
|-------|---------------------------------|--------|---------------------|
| AB    | ANCHOR BOLT                     | FRC    | FIBER REINFORG      |
| A/C   | AIR CONDITIONING                | FSB    | FOOD STORAGE        |
| ACT   | ACOUSTICAL CEILING TILE         | FT     | FEET                |
| ADJC  | ADJUSTABLE                      | FTG    | FOOTING             |
| AFF   | ABOVE FINISH FLOO               | FTR    | FINNED TUBE RA      |
| AHU   | AIR HANDLING UNIT               | FURN   | FURNITURE, FUR      |
| ALUM  | ALUMINUM                        | GA     | GAGE                |
| APT   | APARTMENT                       | GALV   | GALVANIZED          |
| BD    | BOARD                           | GI     | GALVANIZED IRC      |
| BFE   | BOTTOM FOOTING ELEVATION        | GC     | GENERAL CONTR       |
| BITUM | BITUMINOUS                      | GL     | GLASS, GLAZING      |
| BLDG  | BUILDING                        | GND    | GROUND              |
| BLK   | BLOCK                           | GR     | GRADE               |
| BLKG  | BLOCKING MACHINE                | GRL    | GRILLE              |
| BM    | BEAM                            | GRV    | GRAVITY ROOF \      |
| BOT   | BOTTOM                          | GWB    | GYPSUM WALL B       |
| BRG   | BEARING                         | GWT    | GLAZED WALL TI      |
| BUR   | BUILT-UP ROOFING                | GYP    | GYPSUM              |
| CAB   | CABINET                         | HORIZ  | HORIZONTAL          |
| CPT   | CARPET                          | HC     | HANDICAPPED         |
| CH BD | CHALKBOARD                      | HDR    | HEADER              |
| CEM   | CEMENT                          | HDWD   | HARDWOOD            |
| CHAN  | CHANNEL                         | HHMS   | HEX HEAD MACH       |
| CJ    | CONSTRUCTION JOINT              | HM     | <b>HOLLOW METAL</b> |
| CL    | CENTER LINE                     | H PT   | HIGH POINT          |
| CL    | CLOSET                          | HNDRL  | HANDRAIL            |
| CLG   | CEILING                         | HGT    | HEIGHT              |
| CMU   | CONCRETE MASONRY UNIT           | HR     | HOUR                |
| CMT   | CERAMIC MOSAIC TILE             | HVAC   | HEATING, VENTII     |
| CO    | CLEAN OUT                       | CONDIT | IONING              |
| COL   | COLUMN                          | ID     | INSIDE DIAMETEI     |
| COMP  | COMPRESSION, COMPACTED          | IF     | INSIDE FACE         |
| CONC  | CONCRETE                        | IN     | INCH                |
| CONT  | CONTINUOUS                      | INSUL  | INSULATION          |
| CONTR | CONTRACTOR                      | INT    | INTERIOR            |
| CONV. | CONVECTOR                       | INV    | INVERT              |
| CORR  | CORRIDOR                        | JAN    | JANITOR             |
| DBL   | DOUBLE                          | JST    | JOIST SND           |
| DET   | DETAIL                          | JT     | JOINT SND           |
| DF    | DRINKING FOUNTAIN               | LAM    | LAMINATED           |
| DIA   | DIAMETER                        |        | LAVATORY            |
| DIM   | DIMENSION                       |        | LOWPOINT            |
| DISP  | DISPENSER                       | MATL   | MATERIAL            |
| DN    | DOWN                            | MAX    | MAXIMUM             |
| DO    | DITTO                           | MB     | MARKER BOARD        |
| DR    | DRAIN, DOOR                     | MECH   | MECHANICAL          |
| DTL   | DETAIL                          | MFR    | MANUFACTURER        |
| D/W   | DISHWASHER                      | MH     | MANHOLE             |
| DWG   | DRAWING                         | MIN    | MINIMUM, MINUT      |
| DS    | DOWNSPOUT                       | MIR    | MIRROR              |
| DWL   | DOWEL                           | MISC   | MISCELLANEOUS       |
|       | EACH                            | MO     | MASONRY OPEN        |
|       | ETYLENE PROPYLENE DIENE MONOMER | MTL    | METAL               |
| EF    | EACH FACE                       | MTD    | MOUNTED             |
| EL    | ELEVATION                       | NIC    | NOT IN CONTRAC      |
| ELEC  |                                 | NO     | NUMBER              |
|       | EQUIPMENT                       | NS     | NEAR SIDE           |
| EW    | EACH WAY                        | OA     | OVER ALL            |
|       | ELECTRIC WATER COOLER           | OC     | ON CENTER           |
|       | ELEVATOR                        | OD     | OUTSIDE DIAMET      |
| EXH   | EXHAUST                         | OF.    | OUTSIDE FACE        |
|       | EXISTING                        | OPNG   | OPENING             |
|       | EXPANSION JOINT                 | PR     | PAIR                |
| EXT   | EXTERIOR                        | PNL    | PANEL               |
|       |                                 |        |                     |

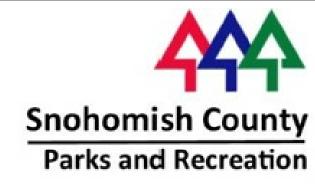
POWER ROOF VENT RCED CONCRETE LBS PER SQUARE FOOT BUILDING PAPER TOWEL DISPENSER QUARRY TILE RADIATION RADIUS, RISER IRNACE RADIATOR REINFORCED CONCRETE REINFORCED CONCRETE PIPE RON RD ROOF DRAIN TRACTOR RECPT RECEPTACLE REINF REINFORCED RETAINING ROUND HEAD MACHINE RHWS ROUND HEAD WOOD VENT **BOARD** RO ROUGH OPENING RAINWATER LEADER SOAP DISPENCER SECTION STRUCTURAL FACING TILE SHOWER SHEET HINE SCREW SIMILAR SHEET METAL SCREW SAN. NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE SPACE SPECIFICATION ΓILATION & AIR SPKLR SPRINKLER SQUARE SANITARY SEWER S SK SERVICE SINK STAINLESS STEEL STD STANDARD STL STEEL STRUC STRUCTURAL SUSPENDED TOP, TILE, TREAD **TEMPORARY TERRAZZO** T&G TOUNGE & GROOVE THRESHOLD. THICK TH TOD TOP OF DECK TOJ TOP OF JOIST TOS TOP OF STEEL TOILET PAPER DISPENCER TROWELED. TREAD TR TUBULAR STEEL TYP TYPICAL UGRD UNDERGROUND **UNIT HEATER** NING UNLESS NOTED OTHERWISE UNO UR URINAL UTIL UTILITY ACT VERTICAL **VERT** VINYL COMP. TILE WITH WATER CLOSET / TOILET W/D WASHER/DRYER TER WD WOOD WDW WINDOW WATER HEATER WNSC WAINSCOAT WITHOUT PART PARTITION **WORKING POINT** PERF PERFORATED P LAM PLASTIC LAMINATE APPROVED FOR CONSTRUCTION PREFIN PREFINISHED

100% CONSTRUCTION DRAWINGS/BID SET

R/W PERMIT NO.









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FAN

**FLOOR** 

FLANGE

FLR

FLG

FLOOR DRAIN

FIRE HYDRANT

FIREPROOF, FRAME

FLAT HEAD MACHINE SCREW

FOUNDATION

DESIGNED BY: SALT STUDIO DRAWN BY: LH CHECKED BY: LH APPROVED BY: LH SCALE: AS NOTED

DATE: AUGUST 2020

PRECAST

PLASTER

PLATE

PAINT

PLAS

PL

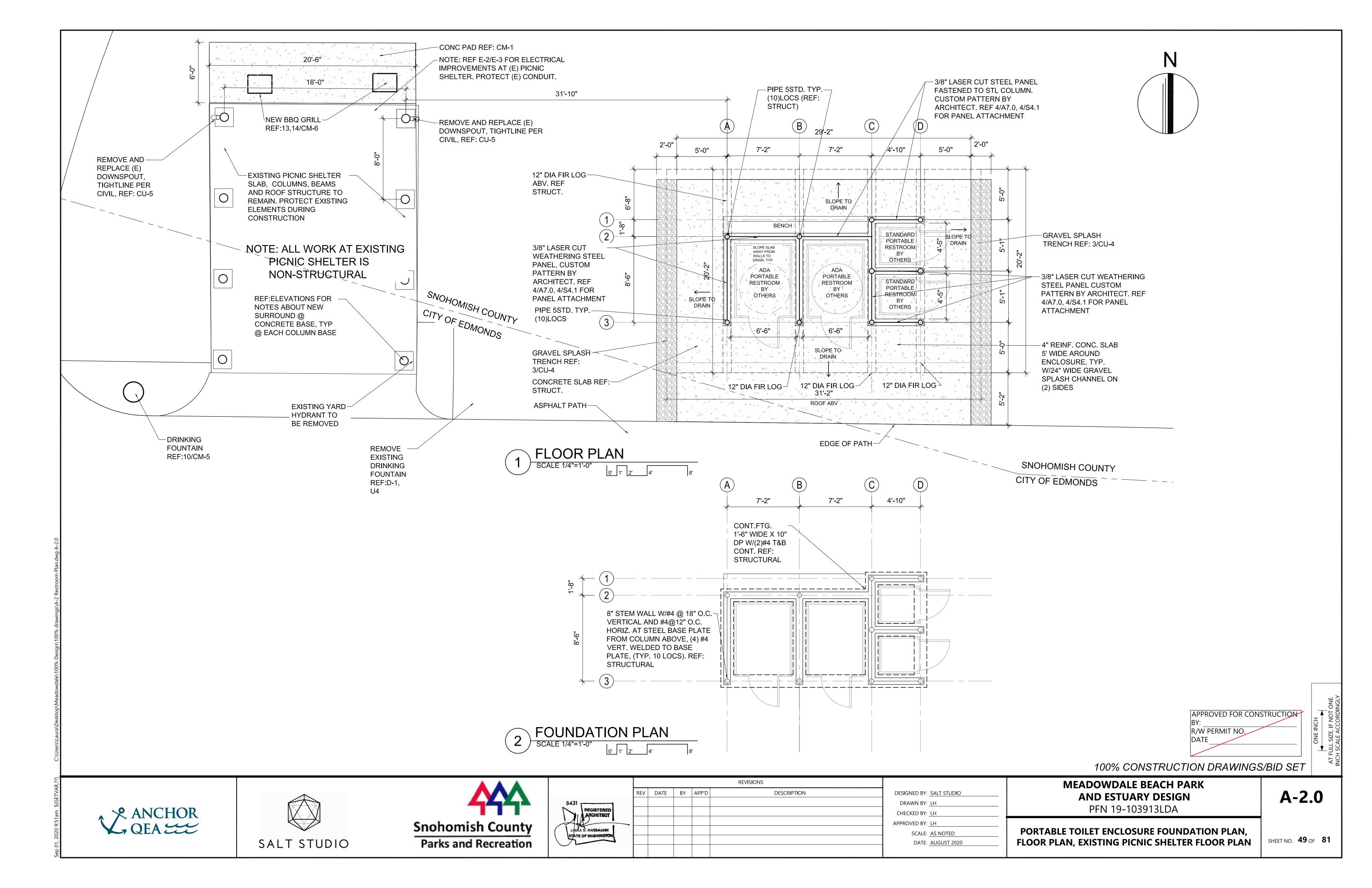
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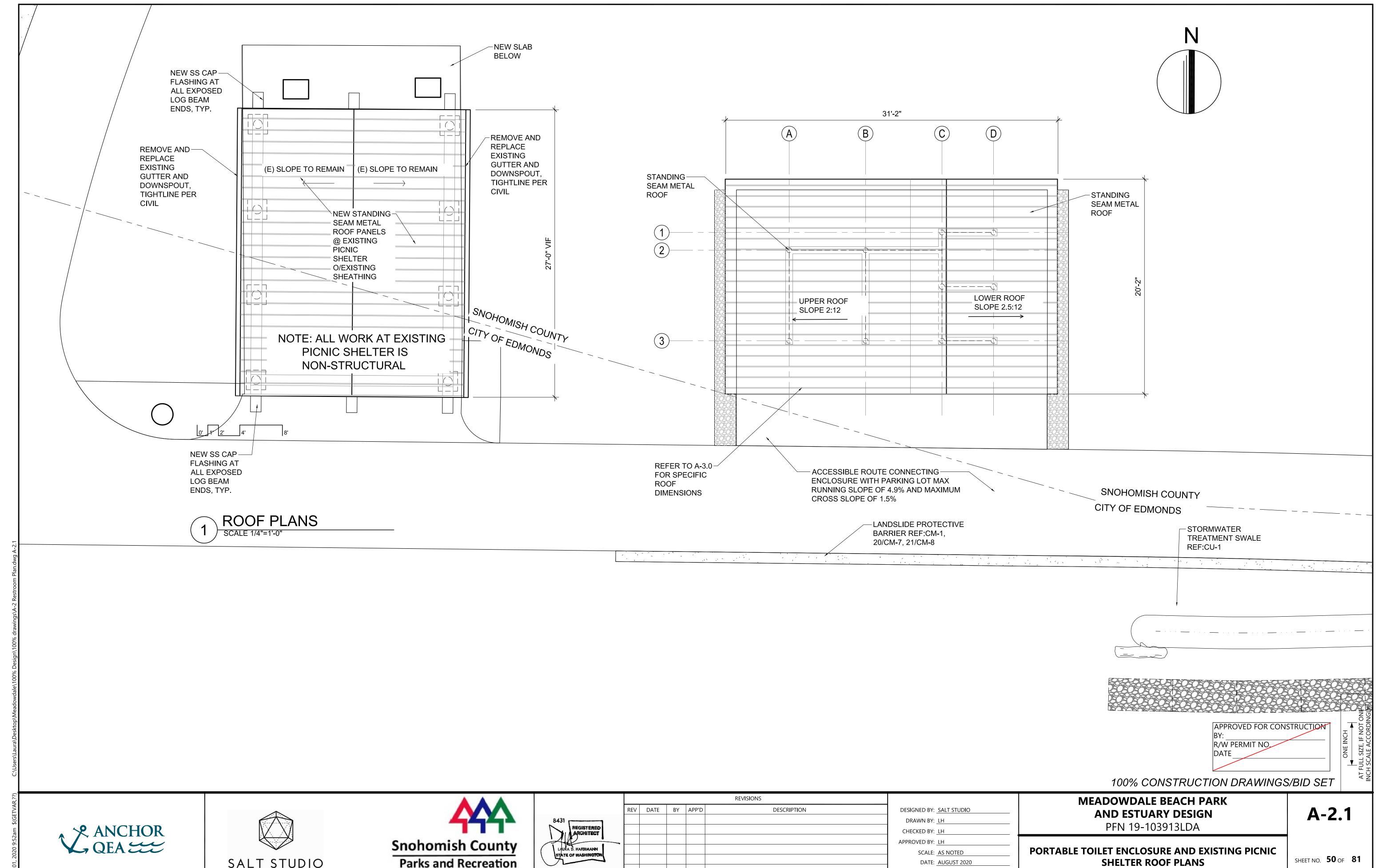
**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** PFN 19-103913LDA

ARCHITECTURE GENERAL NOTES

SHEET NO. **48** OF **81** 

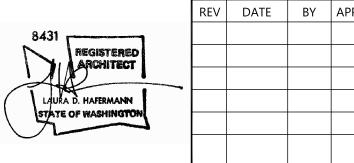
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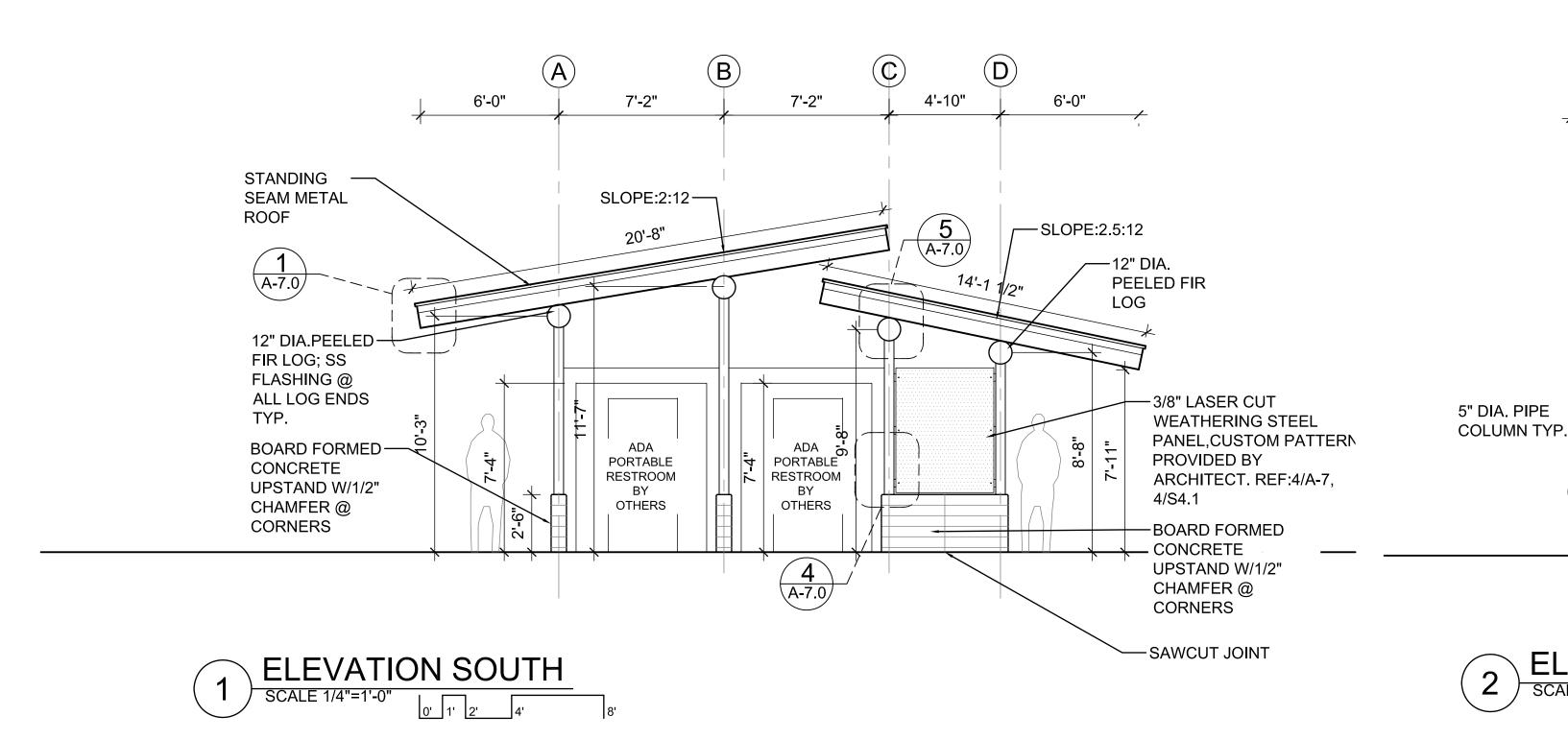




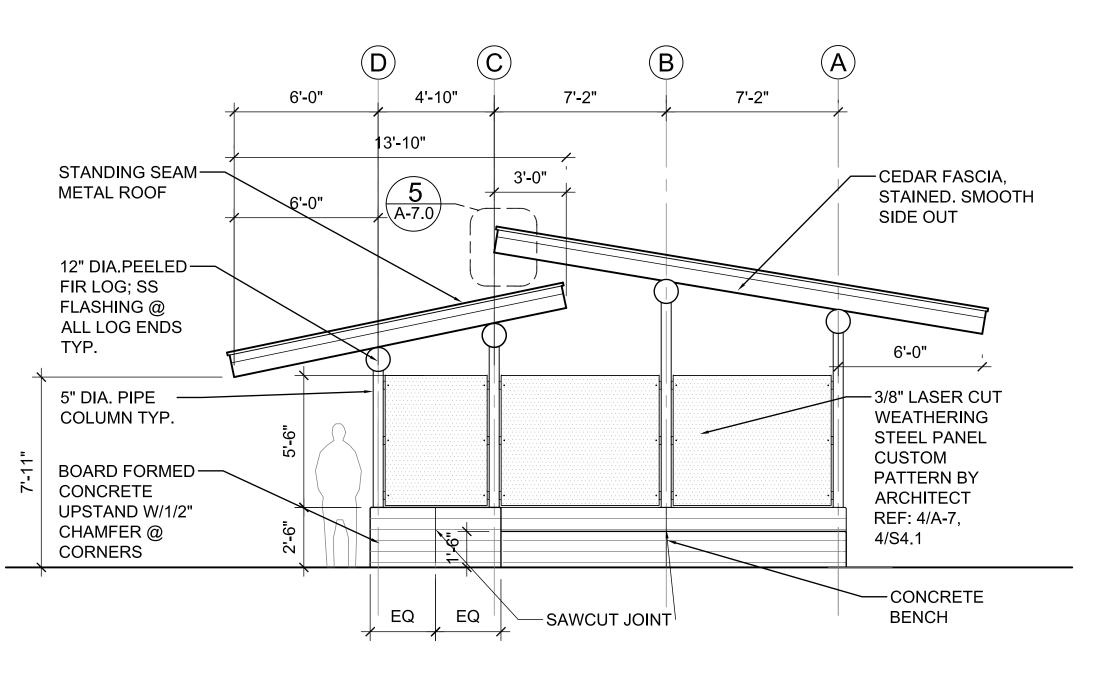


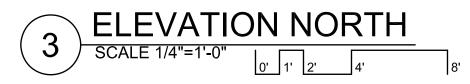
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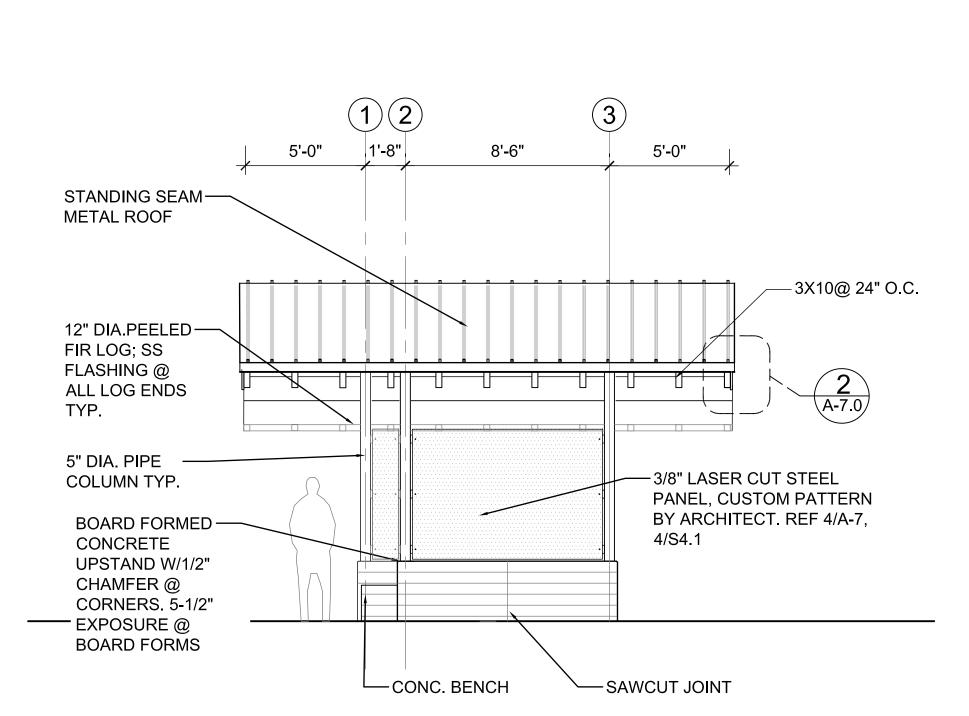
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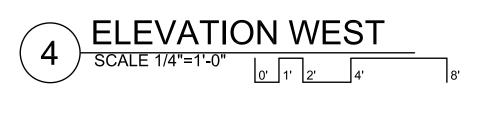


|                              | LEGEND  |  |
|------------------------------|---|--|
| ELEMENT                      | MATERIAL  | COLOR / FINISH   |
| CONCRETE                     | CAST IN PLACE, BOARD FORMED   | GRAY CONCRETE W/ ANTI-<br>GRAFFITI COATING   |
| COLUMNS                      | STEEL   | PAINT  |
| EXPOSED STRUCTURE            | PEELED DOUGLAS FIR LOGS   | CLEAR FINISH PER SPEC  |
| ENCLOSURE PANEL              | WEATHERING STEEL  |  |
| RAFTERS, TRIM                | WOOD  | SEMI TRANSPARENT STAIN   |
| T&G DECKING                  | WOOD  | SEMI TRANSPARENT STAIN   |
| ROOFING                      | STANDING SEAM METAL ROOF  | PER SPEC   |
| EXPOSED FLASHING AT LOG ENDS | STAINLESS STEEL   |  |
| MISC ROOF FLASHING           | METAL   | TO MATCH ROOF  |
| GUTTERS& DOWNSPOUTS          | METAL   | TO MATCH ROOF  |
|                              |   |  |
|                              | CONCRETE  COLUMNS  EXPOSED STRUCTURE  ENCLOSURE PANEL  RAFTERS, TRIM  T&G DECKING  ROOFING  EXPOSED FLASHING AT LOGENDS  MISC ROOF FLASHING | ELEMENTMATERIALCONCRETECAST IN PLACE, BOARD<br>FORMEDCOLUMNSSTEELEXPOSED STRUCTUREPEELED DOUGLAS FIR LOGSENCLOSURE PANELWEATHERING STEELRAFTERS, TRIMWOODT&G DECKINGWOODROOFINGSTANDING SEAM METAL ROOFEXPOSED FLASHING AT LOG<br>ENDSSTAINLESS STEELMISC ROOF FLASHINGMETAL |









5'-0"

5'-1"

STANDARD

PORTABLE

RESTROOM

OTHERS

**ELEVATION EAST** 

STANDARD

PORTABLE

RESTROOM

OTHERS

APPROVED FOR CONSTRUCTION
BY:
R/W PERMIT NO.
DATE

A - 3.0

100% CONSTRUCTION DRAWINGS/BID SET

5'-0"

—3X10@ 24" O.C.

-STANDING

ROOF

SEAM METAL

-PREFIN METAL

EDGE @ ROOF

MATCH ROOF

CONCRETE

CHAMFER @

CORNERS

-BOARD FORMED

- UPSTAND W/1/2"

COLOR

FLASHING W/DRIP

EDGE, FLASHING TO

-SS FLASHING W/DRIP

EDGE @ ALL EXPOSED

RAFTER AND BEAM ENDS,

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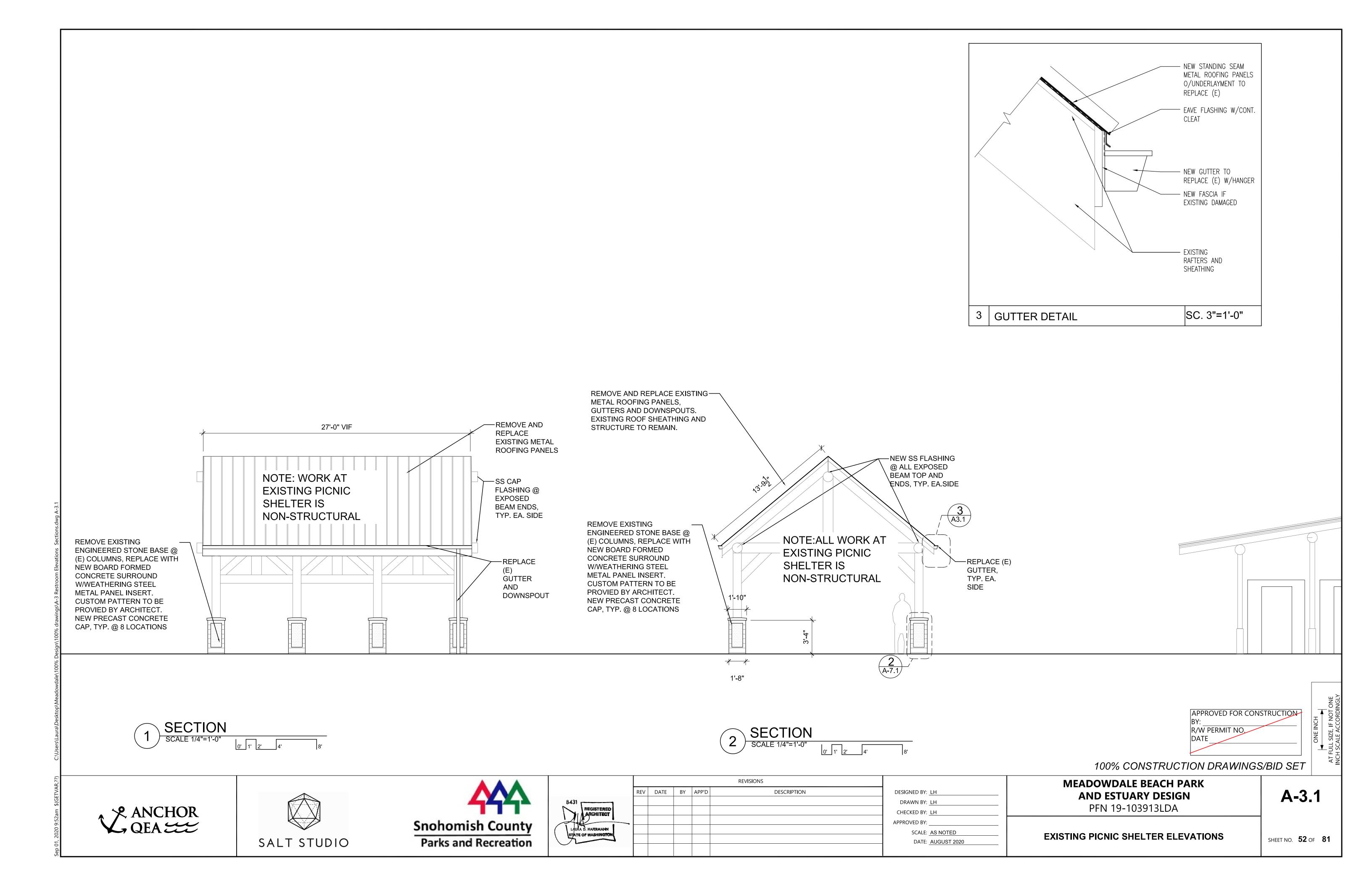
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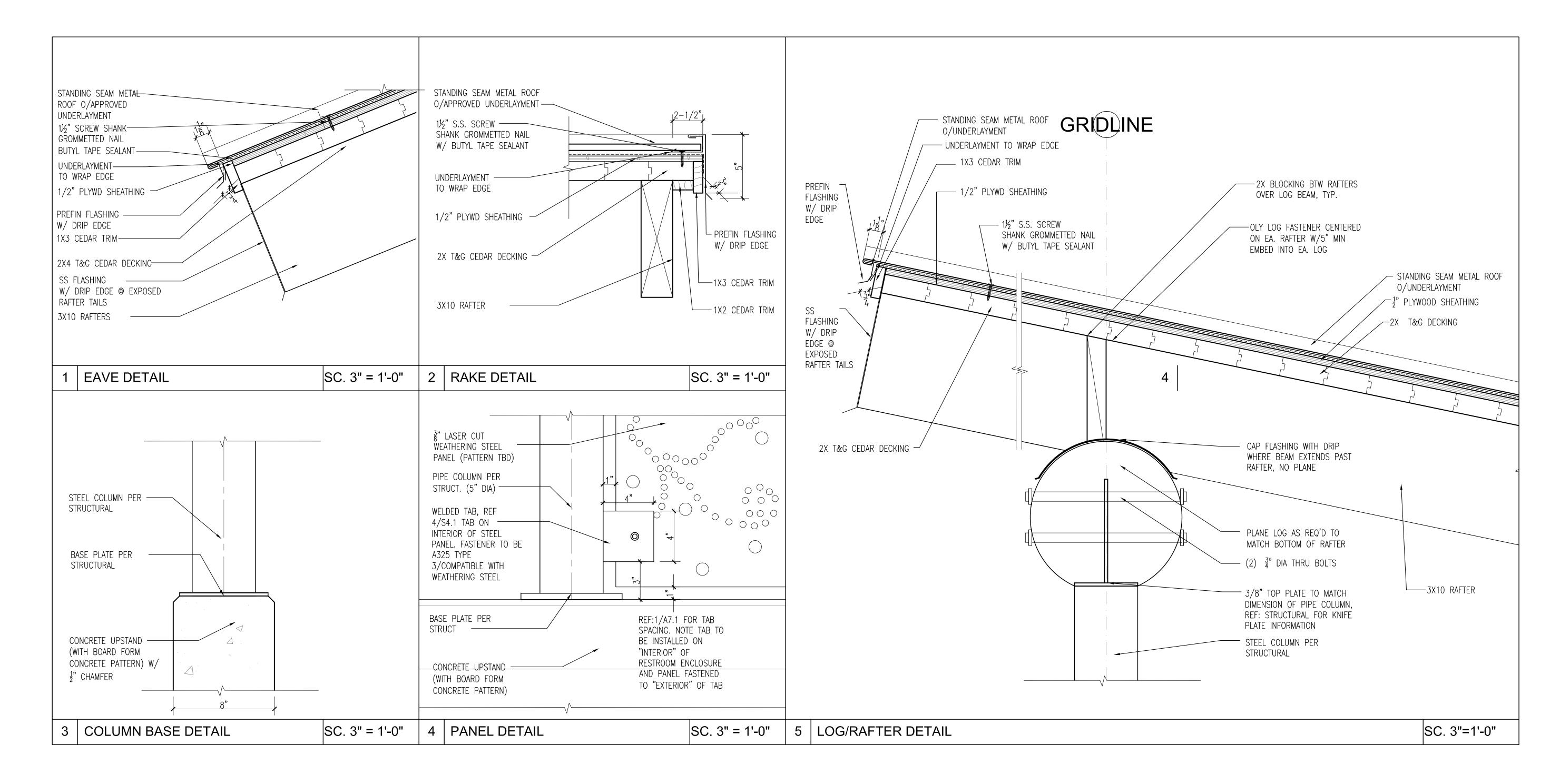
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MEADOWDALE BEACH PARK AND ESTUARY DESIGN PFN 19-103913LDA

PORTABLE TOILET ENCLOSURE ELEVATIONS

SHEET NO. 51 OF 81





APPROVED FOR CONSTRUCTION
BY:
R/W PERMIT NO.
DATE

100% CONSTRUCTION DRAWINGS/BID SET

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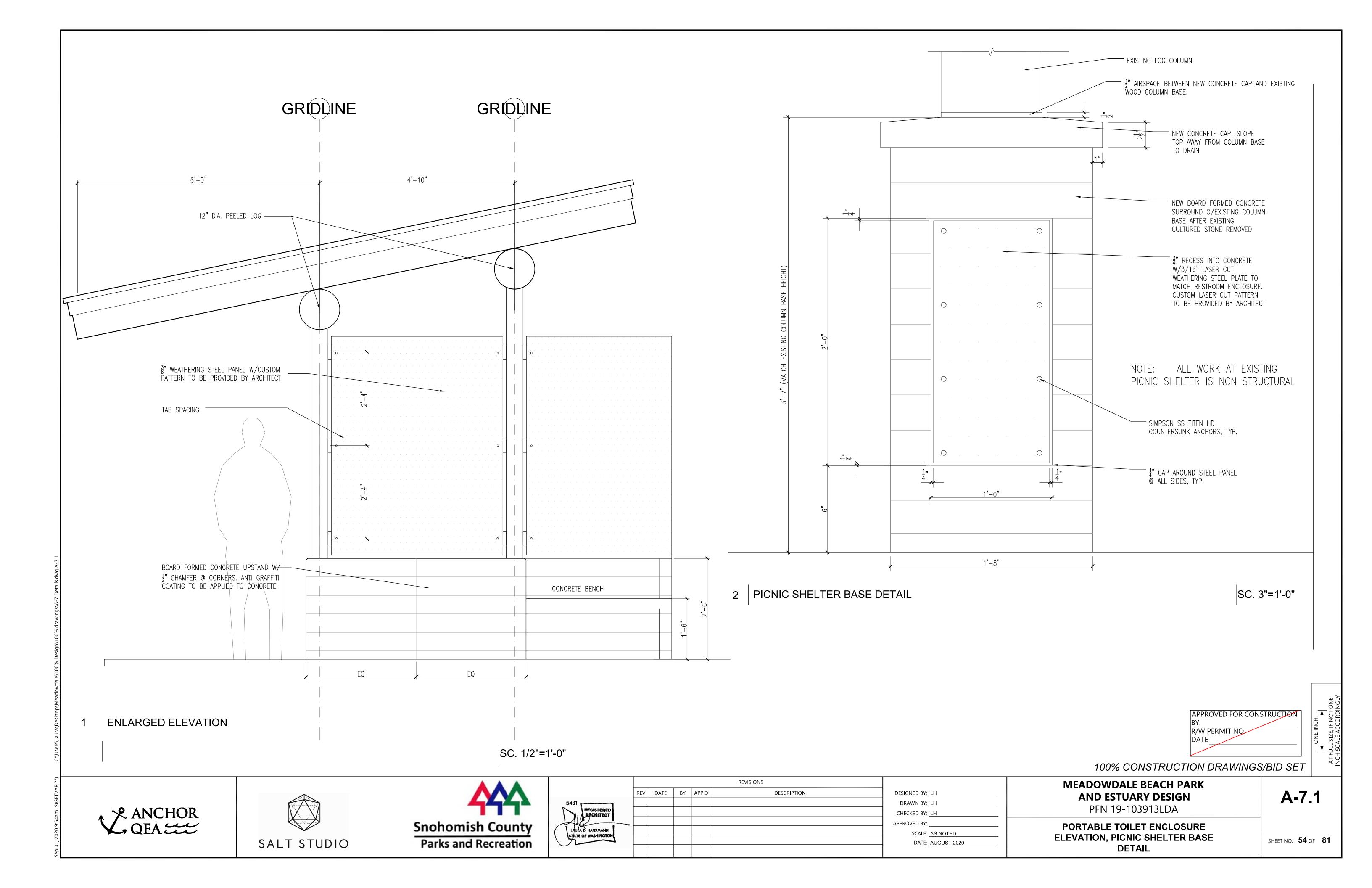
REVISIONS

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

PORTABLE TOILET ENCLOSURE DETAILS

A-7.0

SHEET NO. **53** OF **81** 



#### CRITERIA

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015) EDITION).
- 2. DESIGN LOADING CRITERIA: HANDRAILS AND GUARDS

| MATURIES THE STREET                              |    |
|--|----|
| GUARDRAILS/BALCONY RAILS                         | LF |
| GUARDRAILS/BALCONY RAILS CONCENTRATED LOAD 200 L | BS |
| )OF  |    |
| ROOF LIVE LOAD                                   | SF |
| DARDWALK   |    |
| LIVE LOAD  | SF |
| SCELLANEOUS LOADS                                |    |
| DEFLECTION CRITERIA                              |    |
| LIVE LOAD DEFLECTION                             | 30 |

TOTAL LOAD DEFLECTION . . . . . . . . . . . . . . . L/240 ENVIRONMENTAL LOADS SNOW . . . . . . . . . Ce=1.0, Is=1.0, Ct=1.2, Pg=20 PSF, Pf=25 PSF WIND . . . . . GCpi=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "B"

EARTHQUAKE . . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM (RESTROOM STRUCTURE): STEEL SPECIAL CANTILEVER COLUMN SYSTEM, SITE CLASS=E, Ss=1.331, Sds=0.80, S1=0.525, SD1=0.84, Cs=0.321, SDC D, Ie=1.0, R=2.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL AND LANDSCAPE DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND LANDSCAPE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- 4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL AND LANDSCAPE PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION"
- 7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

REINFORCING STEEL (FOR CONCRETE CONSTRUCTION) STRUCTURAL STEEL DESIGN BUILD ELEMENTS

CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENT'S AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WALL ELEVATION DRAWINGS WITH REINFORCEMENT SHOP DRAWINGS.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS. METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

- 12. SHOP DRAWINGS OF DESIGN BUILD COMPONENTS INCLUDING TEMPORARY SHORING AND PRE-ENGINEERED ASSEMBLIES SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. SHOP DRAWINGS SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW OF THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
- 13. DEFERRED SUBMITTALS: SHOP DRAWINGS AND CALCULATIONS OF DEFERRED SUBMITTAL COMPONENTS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE. ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE INCLUDED. SHOP DRAWINGS SHALL INCLUDE THE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE. DESIGN CALCULATIONS SHALL ACCOMPANY ALL DEFERRED SUBMITTALS. THE ARCHITECT OR CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL WHERE REQUIRED.

DEFERRED SUBMITTAL BUILDING COMPONENTS FOR THIS PROJECT SHALL INCLUDE:

DESIGN-BUILD ELEMENTS PREFABRICATED STEEL PEDESTRIAN BRIDGE

#### **QUALITY ASSURANCE**

14. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT. AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL FABRICATION AND ERECTION PER AISC 360 PER TABLE 1705. 3 CONCRETE CONSTRUCTION SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6 PER MANUFACTURER EPOXY GROUTED INSTALLATIONS DIAMOND PIER FOUNDATIONS PER MANUFACTURER

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.

CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

15. STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 1704.6 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING BUILDING **ELEMENTS:** 

CONCRETE CONSTRUCTION STRUCTURAL STEEL CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY SECTION 110, 1705, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE.

THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH. TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE. HAVE NOT BEEN RESOLVED.

#### **GEOTECHNICAL**

- 16. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 24" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.
- 17. ALLOWABLE SOIL PRESSURE AT PEDESTRIAN BRIDGE WING WALLS (NATIVE SOILS) ALLOWABLE SOIL PRESSURE AT TOILET ENCLOSURE (NATIVE SOILS / STRUCTURAL LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED). . . . . . 55 PCF/34 PCF ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). . . . . . . 300 PCF TRAFFIC SURCHARGE PRESSURE. . . . . . . PER FIGURE 11 IN GEOTECH REPORT 4" DIA PILE CAPACITY WITH PILE TIP DEPTH AT 20'-0" WHERE LIQUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT STATIC CASE(COMPRESSION/TENSION). . . . . . . . 2.3 TONS/ 0.37 TONS SEISMIC CASE(COMPRESSION/TENSION). . . . . . . 2.0 TONS/ 0.20 TONS

BATTERED PILE CAPACITY (WHERE LIQUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT) IS DETERMINED BY RESOLVING THE PILE BATTER ANGLE INTO ITS GEOMETRIX HORIZONTAL AND VERTICAL COMPONENTS AND MULTIPLYING BY THE ESTIMATED VERTICAL PILE CAPACITY BASED ON PILE TIP EMBEDMENT DEPTH.

SNOHOMISH COUNTY, WASHINGTON, 21-1-22288-060, BY SHANNON & WILSON, INC.

SOILS REPORT REFERENCE: GEOTECHNICAL REPORT - MEADOWDALE BEACH PARK AND ESTUARY RESTORATION

DATED FEBRUARY 16. 2018

18. PIN PILES SHOWN ON THE PLAN SHALL BE 4" DIAMETER SCHEDULE 80. THE MAXIMUM CAPACITY OF 4" PILES (WHERE LIQUIDUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT) SHALL BE PER FIGURE 13 PER THE GEOTECHNICAL REPORT. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

#### CONCRETE

- 19. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500
- 20. A CONCRETE PERFORMANCE MIX SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318-14, SECTIONS 26.4.3 AND 26.4.4. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.
- 21. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
- 22. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
- 23. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

24. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) . . . 2" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . 1-1/2' SLABS AND WALLS (INT. FACE). . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4'

25. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED

#4 @ 12 VERTICAL 1 CURTAIN 6" WALLS #4 @ 12 HORIZ. #5 @ 12 VERTICAL 1 CURTAIN 8" WALLS #5 @ 12 HORIZ. #4 @ 12 VERTICAL 2 CURTAINS 10" WALLS #4 @ 12 HORIZ. 12" WALLS #4 @ 12 HORIZ. #4 @ 12 VERTICAL 2 CURTAINS

- 26. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES. BOTH CAST-IN-PLACE AND
- 27. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

APPROVED FOR CONSTRUCTION R/W PERMIT NO. PFN: 19-103913LDA

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### MEADOWDALE BEACH PARK **AND ESTUARY DESIGN**

PFN 19-103913LDA

**S1.1** 

**GENERAL STRUCTURAL NOTES** 

SHEET # 55 OF 81

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## SECTION 5, TOWNSHIP 27 N., RANGE 4 E

#### **General Structural Notes**

#### THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

P0STS

(4X MEMBERS)

#### **ANCHORAGE**

28. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT-RE 500 V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-3814. CONCRETE BASE TEMPERATURE MUST BE BETWEEN 23 DEGREES, AND 104 DEGREES, F AT THE TIME OF INSTALLATION. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. OVERHEAD INSTALLATIONS REQUIRE THE USE OF PISTON PLUGS (HIT-SZ,-IP) DURING INJECTION. OVERHEAD ANCHORS OR BARS MUST BE SUPPORTED WITH HIT-OWH, OR EQUIVALENT. UNTIL FULLY CURED. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

#### STEEL

- 29. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:
- A. AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE. B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL
- DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1. C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
- 29. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS

| TYPE OF MEMBER                      | STM SPECIFICATION  | FY     |
|-------------------------------------|--------------------|--------|
| A. OTHER SHAPES, PLATES, AND RODS   | A36                | 36 KSI |
| B. OTHER SHAPES AND PLATES          | A572 (GRADE 50)    | 50 KSI |
| (NOTED GRADE 50 ON PLANS)           |                    |        |
| C. PIPE COLUMNS                     | A53 (E OR S, GR.B) | 35 KSI |
| D. CONNECTION BOLTS                 | A307               |        |
| (3/4" ROUND, UNLESS SHOWN OTHERWISE | Ξ)                 |        |

- 30. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 31. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.
- 32. SHOP PRIME ALL STEEL EXCEPT:
- A. STEEL ENCASED IN CONCRETE. B. SURFACES TO BE WELDED.

EMBEDDED END.

- C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
- D. MEMBERS TO BE GALVANIZED.
- E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- F. SURFACES TO RECEIVE SPRAYED FIREPROOFING. G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.
- 33. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE
- 34. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

#### WOOD

35. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WWPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

HEM-FIR NO. 2 JOISTS (2X & 3X MEMBERS) AND BEAMS MINIMUM BASE VALUE, Fb = 850 PSI (4X MEMBERS) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI

(INCL. 6X AND LARGER) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI

> (6X AND LARGER) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI

DOUGLAS FIR-LARCH NO. 2

MINIMUM BASE VALUE, Fc = 1350 PSI

STUDS, PLATES & MISC. FRAMING: DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

- 36. LOG MEMBERS SHALL BE GRADED AND MARKED IN ACCORDANCE WITH ASTM D3957. THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY SHALL IDENTIFY LOG MEMBERS OR A CERTIFICATE OF INSPECTION MUST ACCOMPANY THE LOG MEMBERS TO SPECIES AND GRADE ISSUED BY AN APPROVED LUMBER GRADING OR INSPECTION AGENCY.
- 37. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.
- ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.
- -FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.
- WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 38. TONGUE-AND-GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS FOLLOWS: 2X DECKING SHALL BE TOENAILED THROUGH THE TONGUE AND FACE -NAILED WITH ONE 16d NAIL PER PIECE PER SUPPORT. 3X AND 4X DECKING SHALL BE TOENAILED WITH ONE 40d COMMON NAIL AND FACENAILED WITH ONE 60d COMMON NAIL PER SUPPORT. COURSES SHALL BE SPIKED TOGETHER WITH 8" SPIKES @ 30" 0.0 (MAXIMUM) AND @ 10" (MAXIMUM) FROM THE END OF EACH PIECE. SPIKES SHALL BE INSTALLED IN PREDRILLED EDGE HOLES. DECKING SHALL BE PLACED WITH A CONTROLLED RANDOM LAYOUT UNLESS OTHERWISE NOTED AND SHALL EXTEND ACROSS A MINIMUM OF THREE SPANS. EACH PLANK SHALL BEAR ON AT LEAST ONE SUPPORT. ALL JOINTS SHALL BE END MATCHED AND ALL PLANKS NAILED TOGETHER WITHIN ONE FOOT OF EACH SIDE OF THE END JOINT. END JOINTS IN ADJACENT PLANKS SHALL BE AT LEAST TWO FEET APART AND END JOINTS IN ALTERNATE PLANKS SHALL BE MORE THAN ONE FOOT APART WHEN MEASURED ALONG THE LENGTH OF THE DECKING. END JOINTS NOT OCCURRING OVER SUPPORTS SHALL BE MATCHED TONGUED AND GROOVED OR SHALL BE CONNECTED WITH 10 GAUGE METAL SPLINES DRIVEN INTO PRE-CUT SLOTS. TONGUE AND GROOVE JOINTS SHALL BE GLUED WITH CONSTRUCTION ADHESIVE WHERE NOTED ON PLAN.
- 39. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
- 40. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.
- 41. WOOD TREATED FOR FIRE RESISTANCE SHALL MEET THE REQUIREMENTS OF ASTM E 84 OR UL 723 AND HAVE A LISTED FLAME SPREAD INDEX OF 25 OR LESS. FIRE RETARDANT TREATED LUMBER AND WOOD STRUCTURAL PANELS SHALL BE LABELED IN ACCORDANCE WITH IBC 2303. 2.4. WOOD TREATED FOR FIRE PROTECTION FOR USE IN INTERIOR ABOVE GROUND CONSTRUCTION AND CONTINUOUSLY PROTECTED FROM WEATHER AND OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AWPA UCFA. WOOD TREATED FOR FIRE PROTECTION FOR USE IN EXTERIOR ABOVE GROUND CONSTRUCTION AND SUBJECT TO WETTING OR OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AWPA UCFB.

DATE: August 2020

42. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE

WOOD TREATMENT CONDITION PROTECTION HAS NO AMMONIA CARRIER INTERIOR DRY G90 GALVANIZED CONTAINS AMMONIA CARRIER INTERIOR DRY G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653 CONTAINS AMMONIA CARRIER INTERIOR WET TYPE 304 OR 316 STAINLESS EXTERIOR CONTAINS AMMONIA CARRIER TYPE 304 OR 316 STAINLESS TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

43. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2017. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

#### 44. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

| SIZE    | LENGTH | DIAMETER |
|---------|--------|----------|
| 6d      | 2"     | 0. 113"  |
| 8d      | 2-1/2" | 0. 131"  |
| 10d     | 3"     | 0. 148"  |
| 12d     | 3-1/4" | 0. 148"  |
| 16d B0X | 3-1/2" | 0. 135"  |

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

- B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.
- 45. NOTCHES AND HOLES IN WOOD FRAMING:
- A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- 46. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:
- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304. 10. 1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.



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MEADOWDALE BEACH PARK AND ESTUARY DESIGN

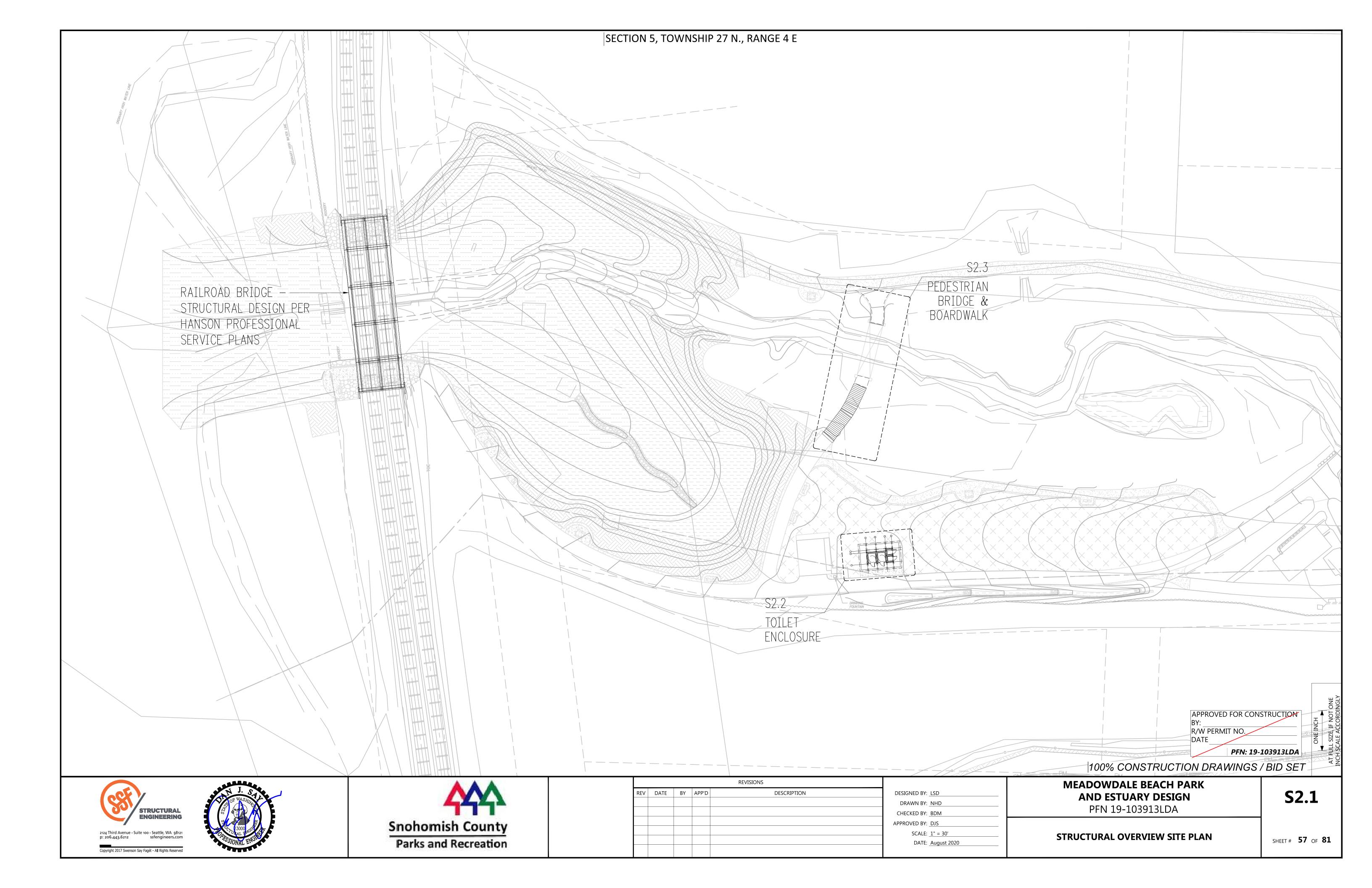
**S1.2** 

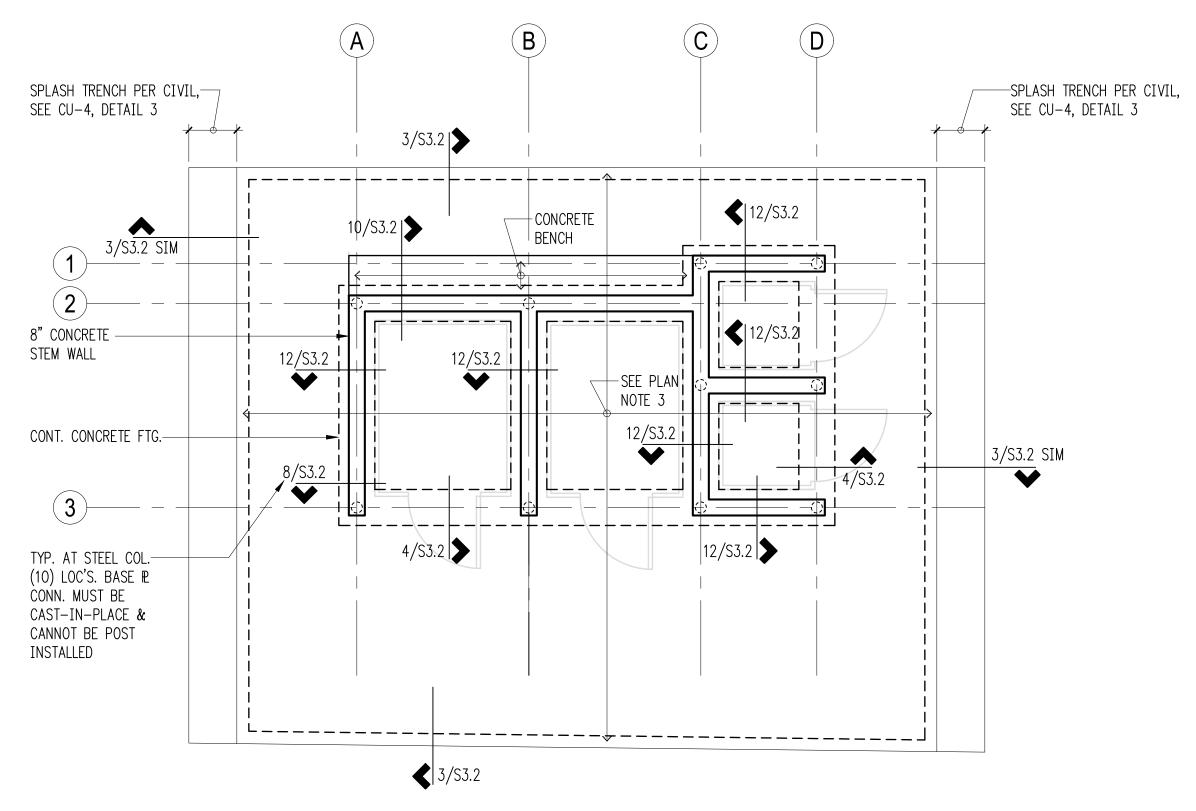
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1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. 2. THE BOTTOM OF ALL FOOTINGS SHALL BE 24" MINIMUM

Plan Notes

3. EXTERIOR SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH #3 AT 16" O.C. CENTERED IN SLAB. BELOW SLAB PROVIDE 12" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL. SEE 8/S3.1 FOR 'TYPICAL SLAB JOINTS'

DETAIL. 4. REFER TO S3.1 FOR TYPICAL CONCRETE DETAILS.

5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

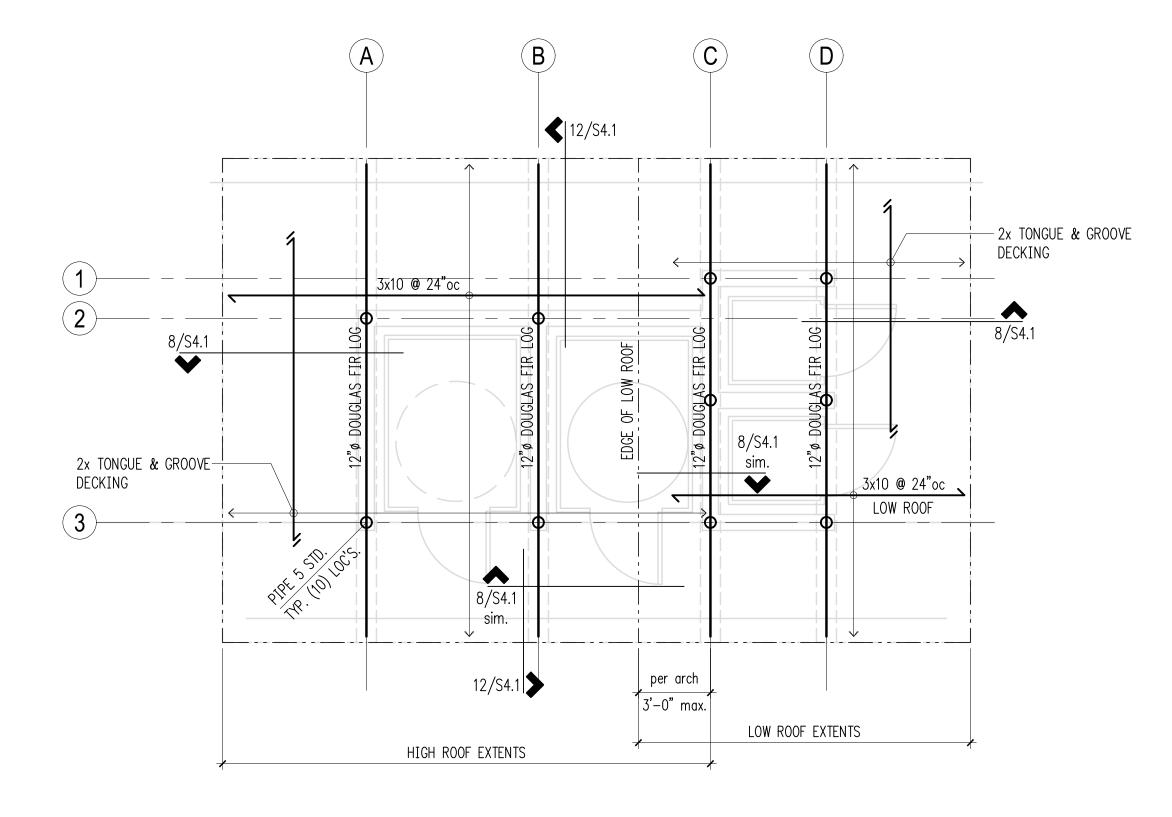
Foundation Plan

Scale: 1/4" = 1'-0" Legend

STEM WALL & FOOTING

EXTENTS

STEEL PIPE COLUMN ABOVE



Plan Notes 1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

2. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER SHEATHING (EXPOSURE 1) OVER 2x TONGUE AND GROOVE DECKING. FACE GRAIN OF PLYWOOD SHEATHING TO BE PERPENDICULAR TO 2x DECKING, U.N.O. 3. NAIL ROOF SHEATHING WITH 8d AT 6"oc AT ALL FRAMED

PANEL EDGES AND AT 12"oc FIELD. 4. ALL POSTS SHALL BEAR FULLY ON BEAMS OR POSTS

BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION. 5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL

SCALE: <u>1/4" = 1'-0"</u>

DATE: August 2020

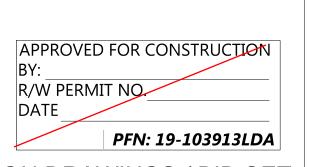
REQUIREMENTS.

Roof Framing Plan

Scale: 1/4" = 1'-0"

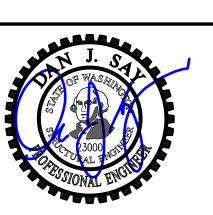
SPAN & DIRECTION OF FRAMING EXTENTS OF FRAMING HEADER/BEAM PER PLAN STEEL PIPE COLUMN PER PLAN

Legend



100% CONSTRUCTION DRAWINGS / BID SET

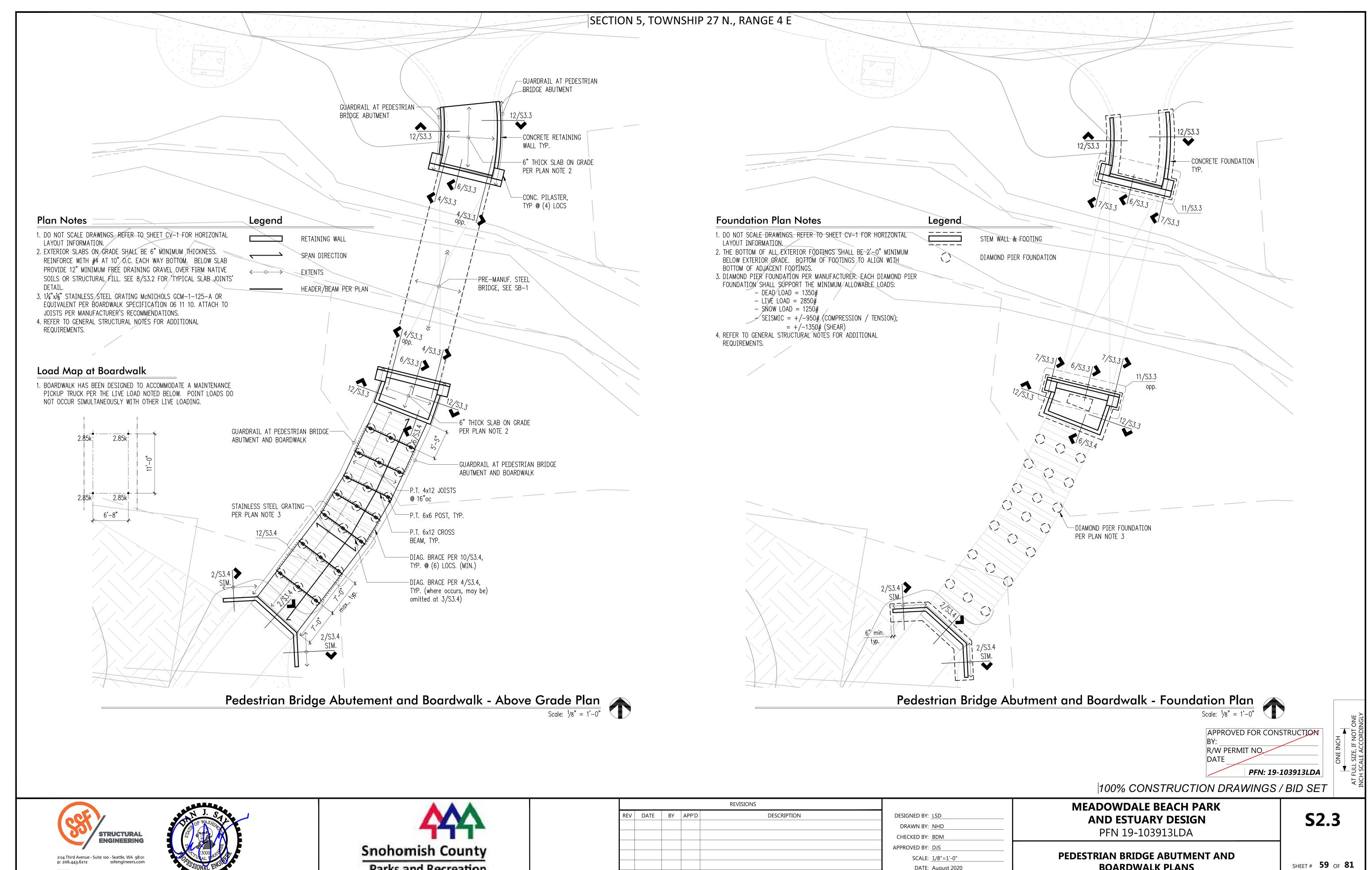






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**S2.2** 



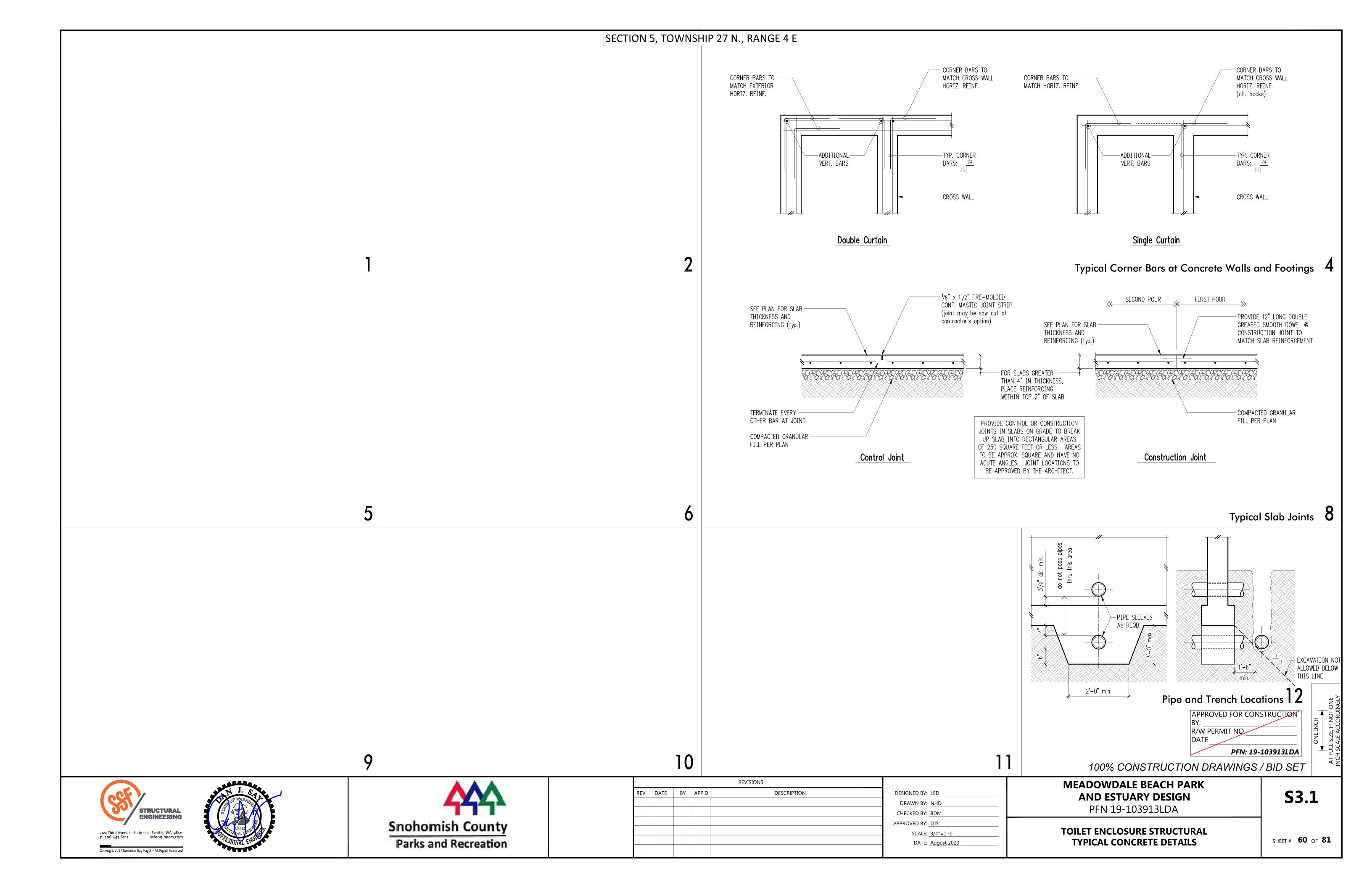
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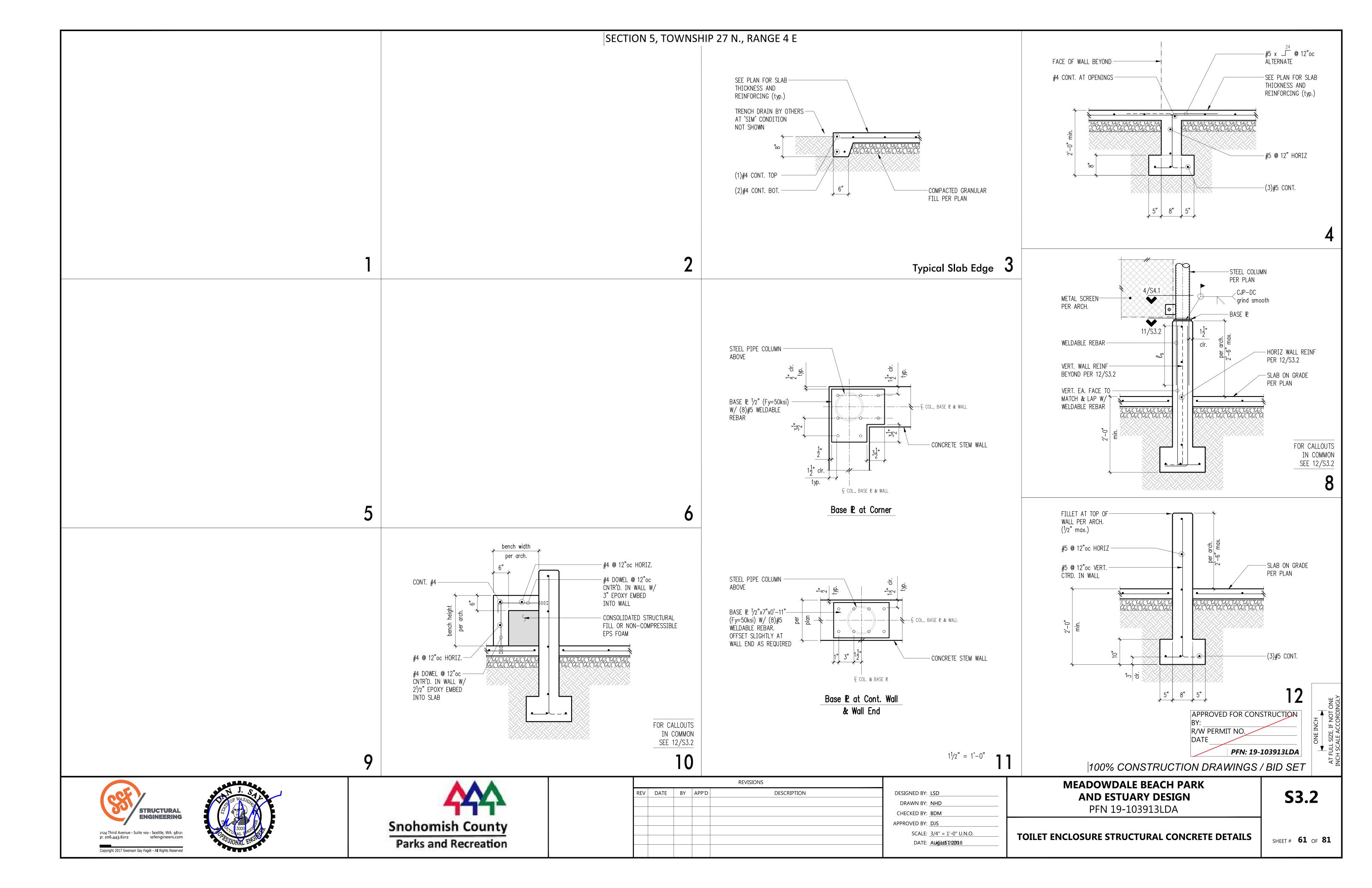


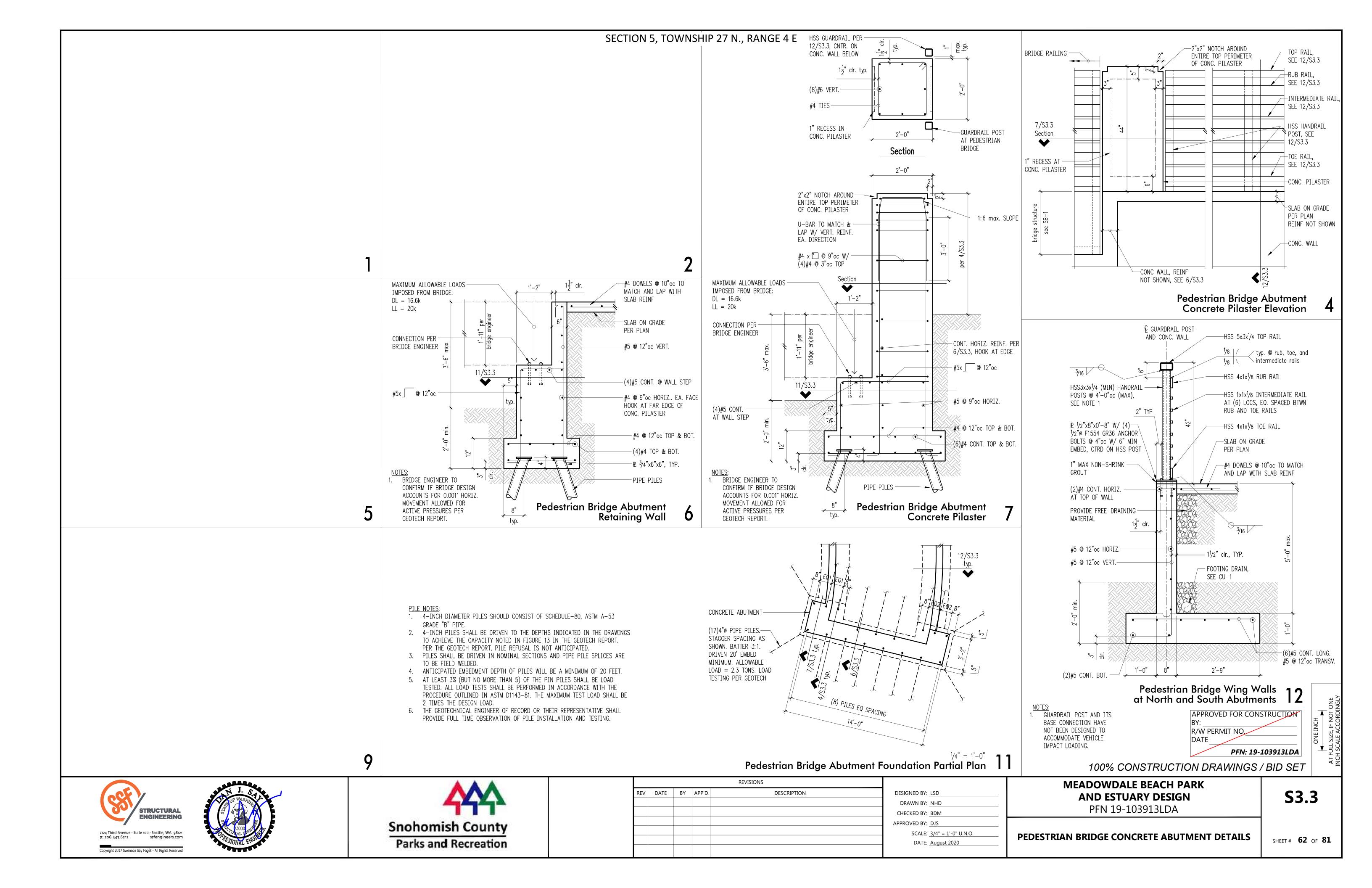


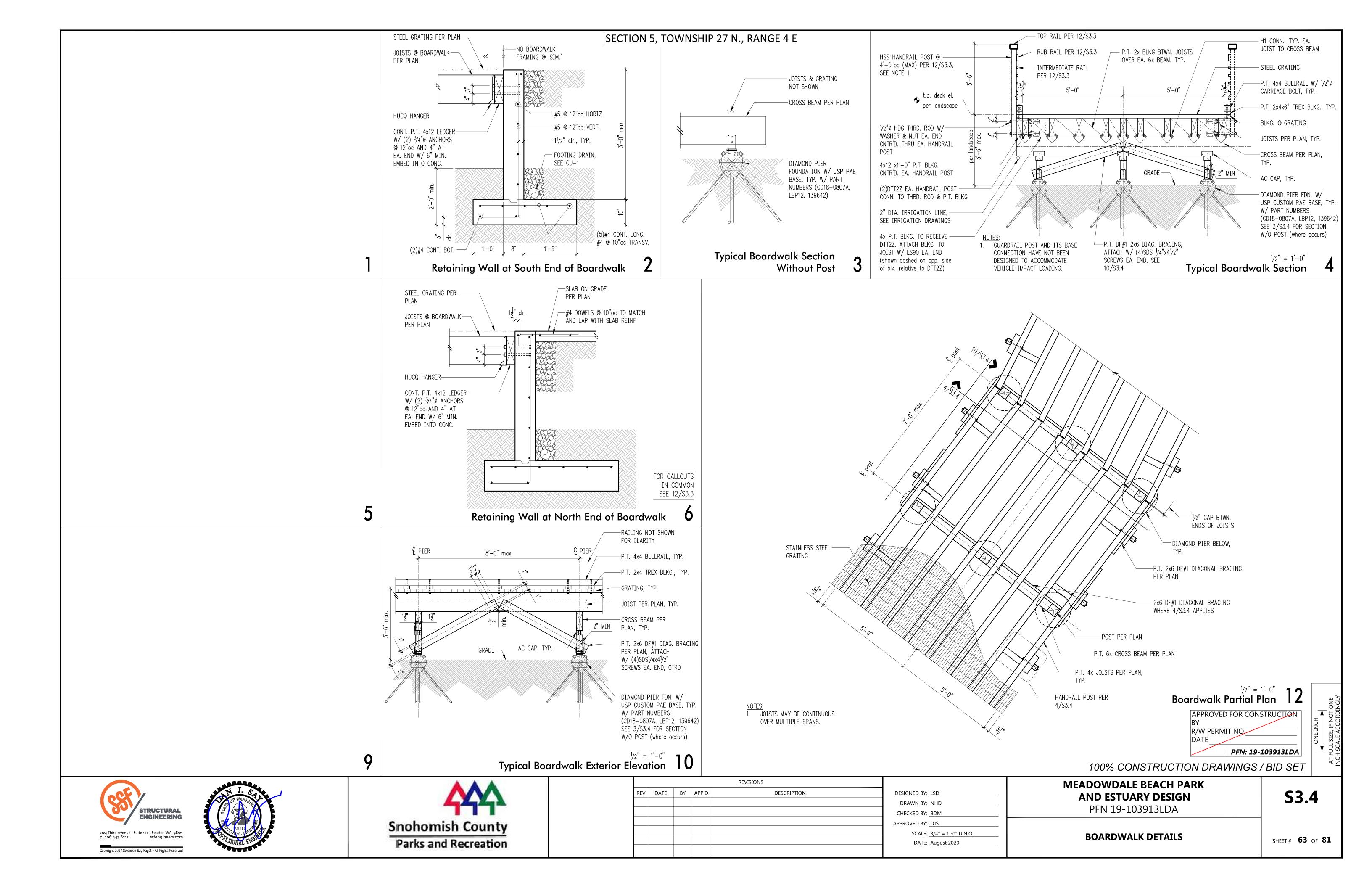
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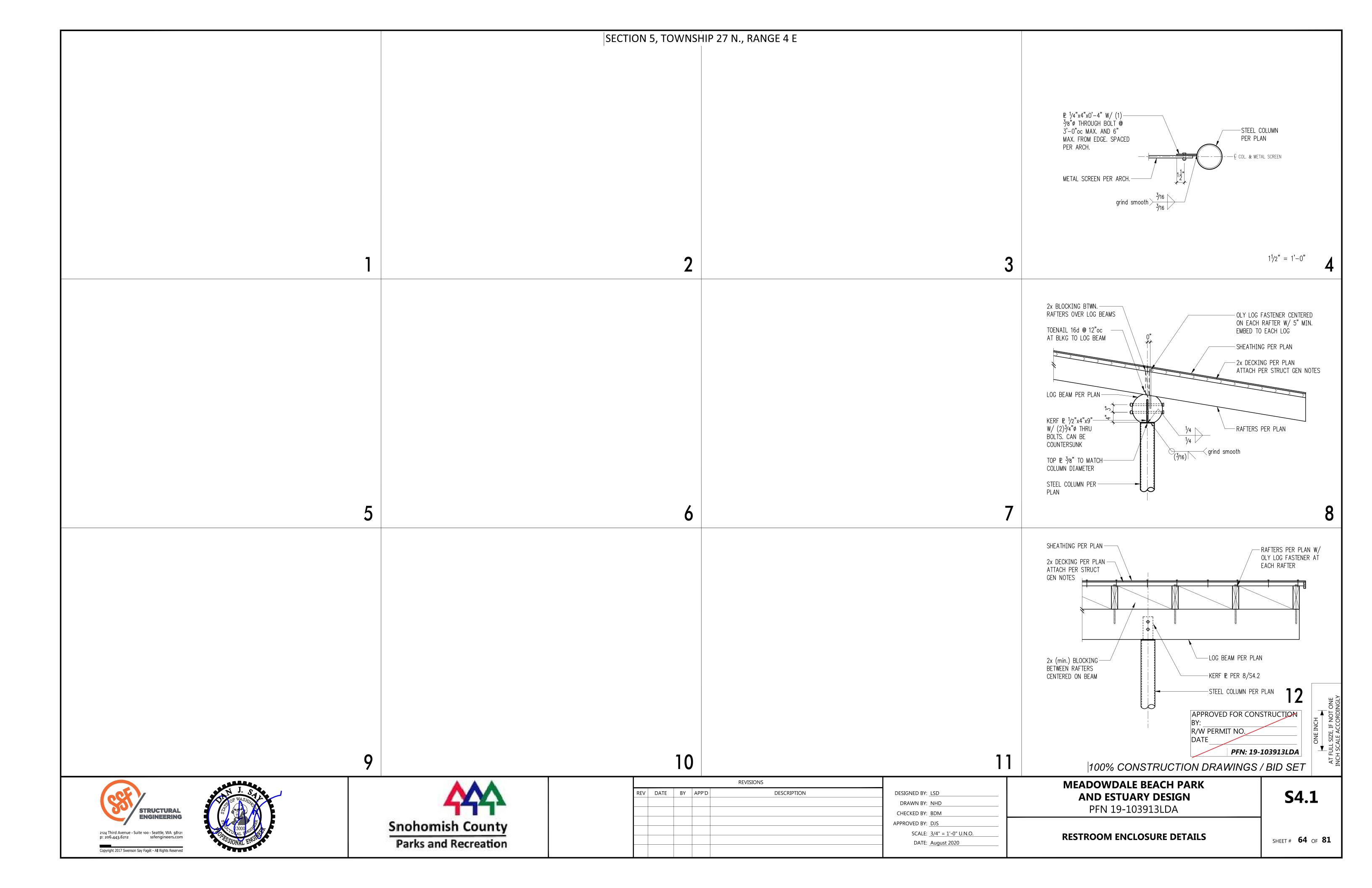
**BOARDWALK PLANS** 

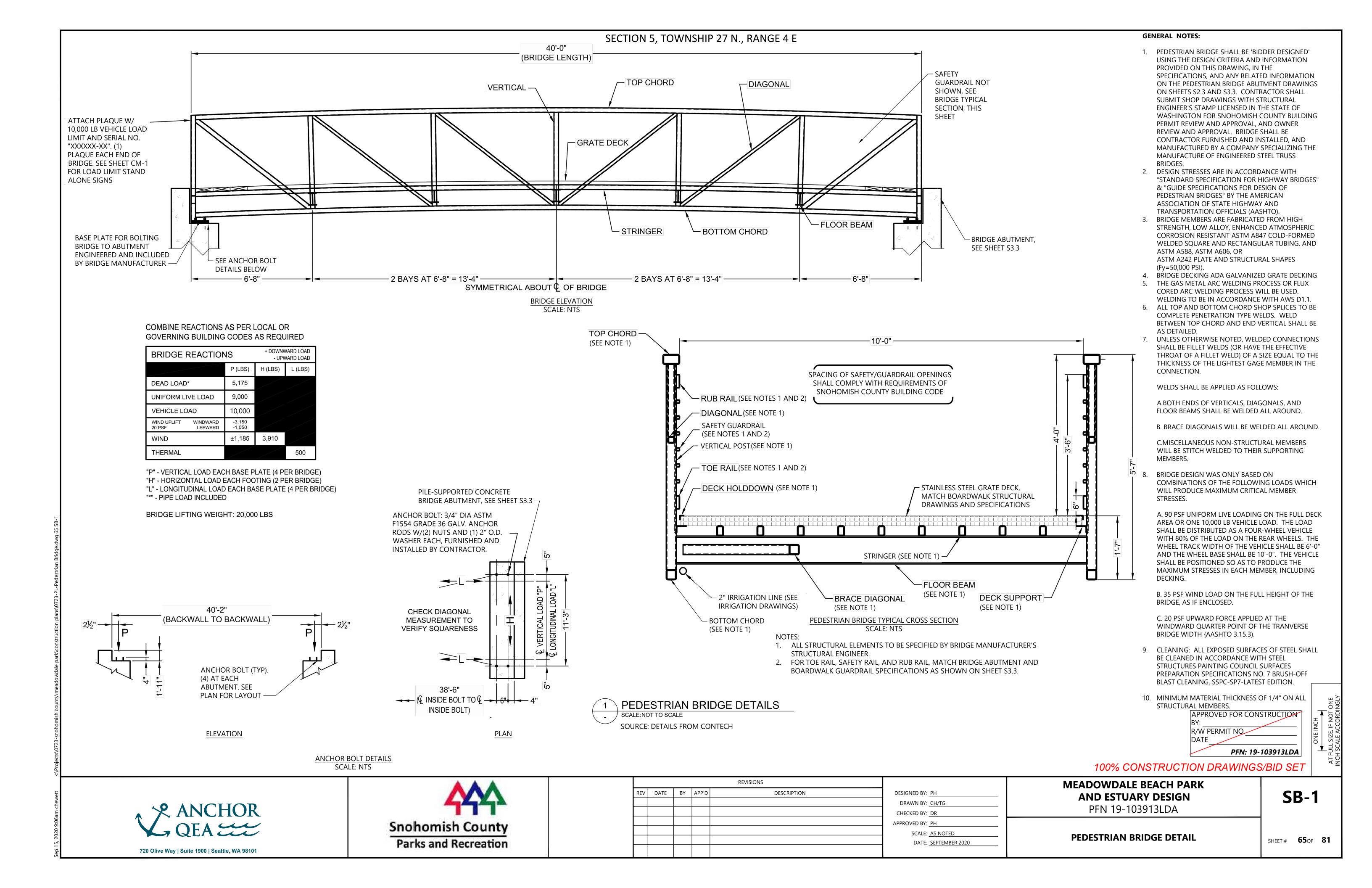


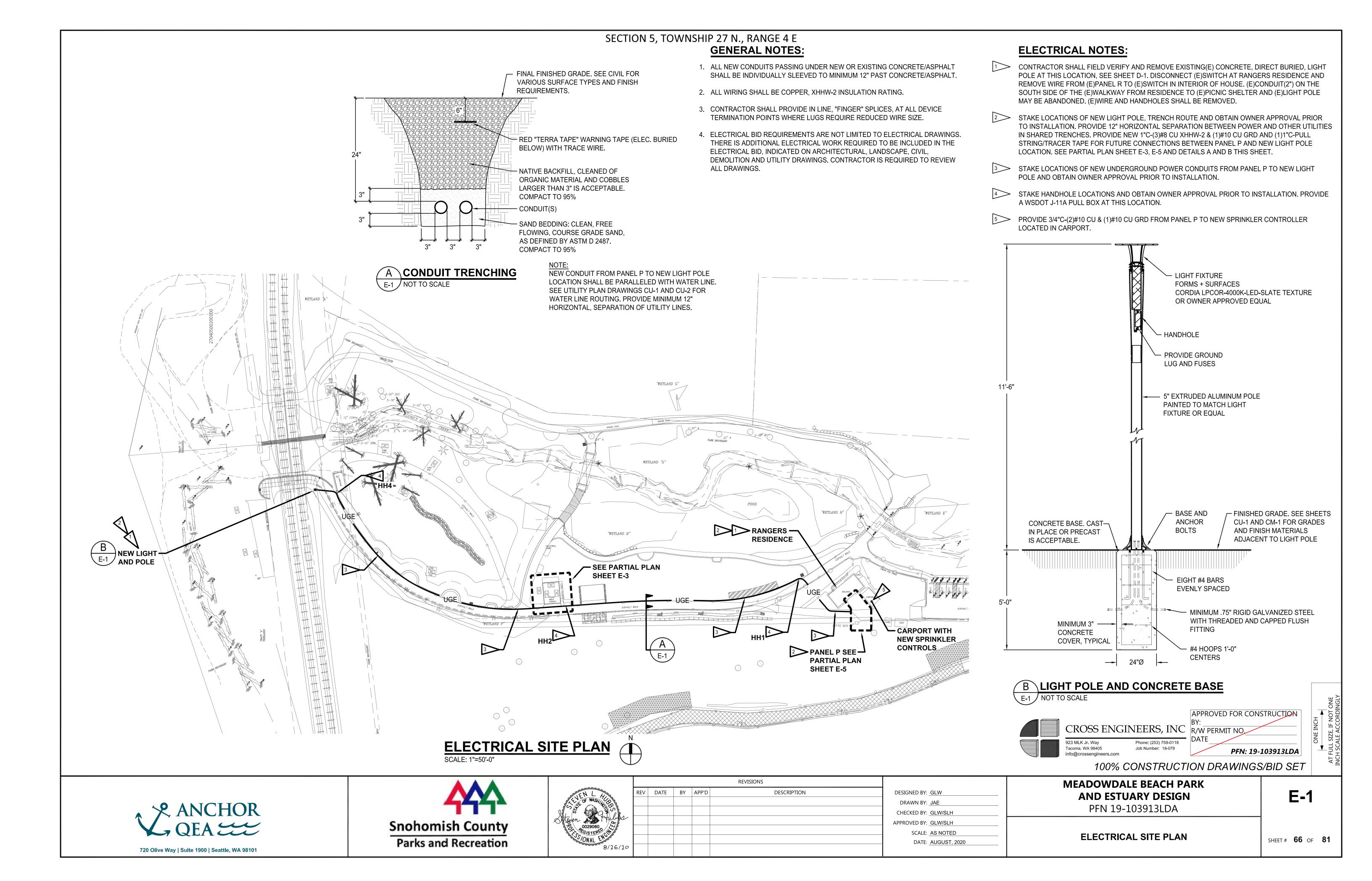












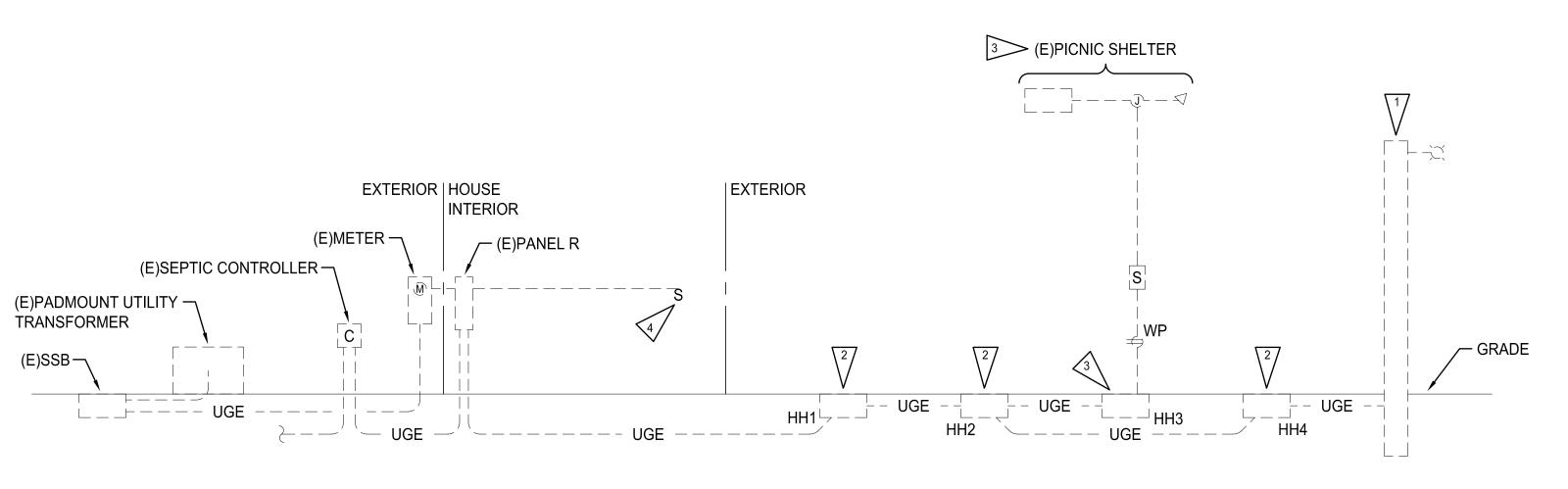
#### **DEMOLITION NOTES:**

EXISTING DIRECT BURIAL CONCRETE POLE AND LIGHT FIXTURE TO BE REMOVED AND LEGALLY DISPOSED OF OFF SITE.

2 EXISTING HANDHOLES. CONTRACTOR SHALL FIELD LOCATE. REMOVE EXISTING WIRING BACK TO EXISTING HOUSE PANEL R. ABANDON (E)2" CONDUIT AND HANDHOLES. THESE WILL BE REMOVED BY OTHERS AS PART OF NEW CONSTRUCTION.

EXISTING ROUND HANDHOLE WITH COVER AT EXISTING PICNIC STRUCTURE TO REMAIN. CONTRACTOR TO REMOVE AND REPLACE TWO(2) EXISTING LIGHT FIXTURES. REUSE EXISTING SURFACE CONDUIT. CONTRACTOR TO REMOVE EXISTING WIRE AND INSTALL NEW. SEE PARTIAL PLAN SHEET E3.

REMOVE LIGHT SWITCH AND WIRE BACK TO EXISTING HOUSE PANEL R. PROVIDE BLANK COVER PLATE.



### **EXISTING POWER RISER DEMOLITION DIAGRAM**

NO SCALE



100% CONSTRUCTION DRAWINGS/BID SET





|                                 |     |      |    |       | REVISIONS   |  |
|---------------------------------|-----|------|----|-------|-------------|--|
| VEN L. A                        | REV | DATE | BY | APP'D | DESCRIPTION |  |
| Steven Thillys                  |     |      |    |       |             |  |
| 0029060<br>FEGISTERE<br>8/26/20 |     |      |    |       |             |  |
| 8/16/15                         |     |      |    |       |             |  |

**MEADOWDALE BEACH PARK** DESIGNED BY: GLW **AND ESTUARY DESIGN** DRAWN BY: JAE PFN 19-103913LDA CHECKED BY: GLW/SLH APPROVED BY: GLW/SLH

SCALE: AS NOTED

DATE: AUGUST, 2020

**EXISTING POWER RISER DEMOLITION DIAGRAM** 

**E-2** 

SHEET # 67 OF 81

# (2)#12 CU & 5 (1)#12 CU GRD ← (E)HANDHOLE TO BE RETAINED (HH3) 5 (2)#12 CU & (1)#12 CU GRD 1"C-SPARE 1"C-(3)#12 CU & (1)#12 CU GRD (1)#12 CU GRD UGE ASPHALT PATH

**ELECTRICAL NOTES:** 

REMOVE EXISTING SURFACE MOUNTED FLOOD LIGHT AND PROVIDE ILP -FML55WLEDUNIV40BMAPC120VGSWG OR OWNER APPROVED EQUAL. CONTROL IS VIA TIMECLOCK AT MAIN ELECTRICAL SERVICE. SEE POWER RISER DIAGRAM SHEET

REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURE AND PROVIDE ILP -CP7LU40MWS OR OWNER APPROVED EQUAL. CONTROL IS VIA TIMECLOCK AT MAIN ELECTRICAL SERVICE. SEE POWER RISER DIAGRAM SHEET E4.

REMOVE EXISTING TOGGLE SWITCH AND PROVIDE NEW BLANK COVER.

REMOVE EXISTING SURFACE MOUNT DUPLEX RECEPTACLE, BOX AND PROVIDE NEW, 20A, 120V, DUPLEX, GFCI RECEPTACLE IN NEW DOUBLE GANG CAST BOX WITH NEMA 3R, "IN USE" PADLOCKABLE COVER.

5 REMOVE EXISTING WIRE PAST (E)HANDHOLE TO REMAIN FOR PICNIC SHELTER AND PROVIDE NEW WIRE TO ALL DEVICES. REUSE EXISTING CONDUIT.

6 STAKE HANDHOLE LOCATION AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION OF HANDHOLE AND CONDUIT ROUTING IN THIS AREA.

EXISTING PICNIC CANOPY ELECTRICAL PLAN SCALE: 1/4"=1'-0"



CROSS ENGINEERS, INC R/W PERMIT NO. 923 MLK Jr. Way Tacoma, WA 98405 info@crossengineers.com Phone: (253) 759-0118 Job Number: 18-079

APPROVED FOR CONSTRUCTION

PFN: 19-103913LDA

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|                     |     |      |    |       | REVISIONS   |
|---------------------|-----|------|----|-------|-------------|
| JEN L. W            | REV | DATE | BY | APP'D | DESCRIPTION |
| OF WASHING DE       |     |      |    |       |             |
|                     |     |      |    |       |             |
| 10029060 E          |     |      |    |       |             |
| 0029060<br>COSTERED |     |      |    |       |             |
| ONAL ENGL           |     |      |    |       |             |
| 8/16/10             |     |      |    |       |             |
|                     |     |      | l  |       |             |

|                      |  | _ |
|----------------------|--|---|
|                      |  |   |
| DESIGNED BY: GLW     |  |   |
| DRAWN BY: JAE        |  |   |
| CHECKED BY: GLW/SLH  |  |   |
| APPROVED BY: GLW/SLH |  |   |
| SCALE: AS NOTED      |  |   |
| DATE: AUGUST, 2020   |  |   |

**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** 

PFN 19-103913LDA

**EXISTING PICNIC CANOPY ELECTRICAL PLAN** 

**E-3** 

SHEET # 68 OF 81

#### **ELECTRICAL NOTES:**

NEMA 3R, SERVICE ENTRANCE RATED, ENCLOSED, 200A, 240V, 1PH, 25,000 AIC CIRCUIT BREAKER.

PROVIDE RECTANGULAR PULL BOX 14" x 19" x 12" WITH "ELECTRIC" LID. WSDOT J-11A OR OWNER APPROVED EQUAL. SEE SHEET E-1, ELECTRICAL NOTE 4.

RETAIN EXISTING IN GROUND HANDHOLE.

PROVIDE NEMA 4X, HINGED AND PAD LOCKABLE, 12"x12"x8" BOX WITH ASTRONOMICAL TIMECLOCK TORK EWZ103 OR OWNER APPROVED EQUAL.

FEMOVE EXISTING HOUSE SERVICE GROUND AND CONNECT NEW GROUND FROM SERVICE PANEL P.

REMOVE EXISTING SERVICE WIRES FROM (E)SSB TO (E)PANEL R METER. REMOVE METER AND TURN OVER TO UTILITY. CONTRACTOR MAY INTERCEPT EXISTING CONDUIT AND REUSE.

PROVIDE (2)10'-0" x 3/4" COPPER CLAD STEEL GROUND RODS SPACED NO LESS THAN 10 FEET APART. PROVIDE #6 BARE CU BETWEEN EACH GROUND ROD AND UP TO EQUIPMENT MOUNTING STRUCTURE AND ELECTRICAL PANEL.

#### **CONDUIT AND CONDUCTOR SCHEDULE:**

2-1/2"C-(3)#300 KCM AL

2-1/2"C-(3)#300 KCM AL & (1)#2 AL GRD

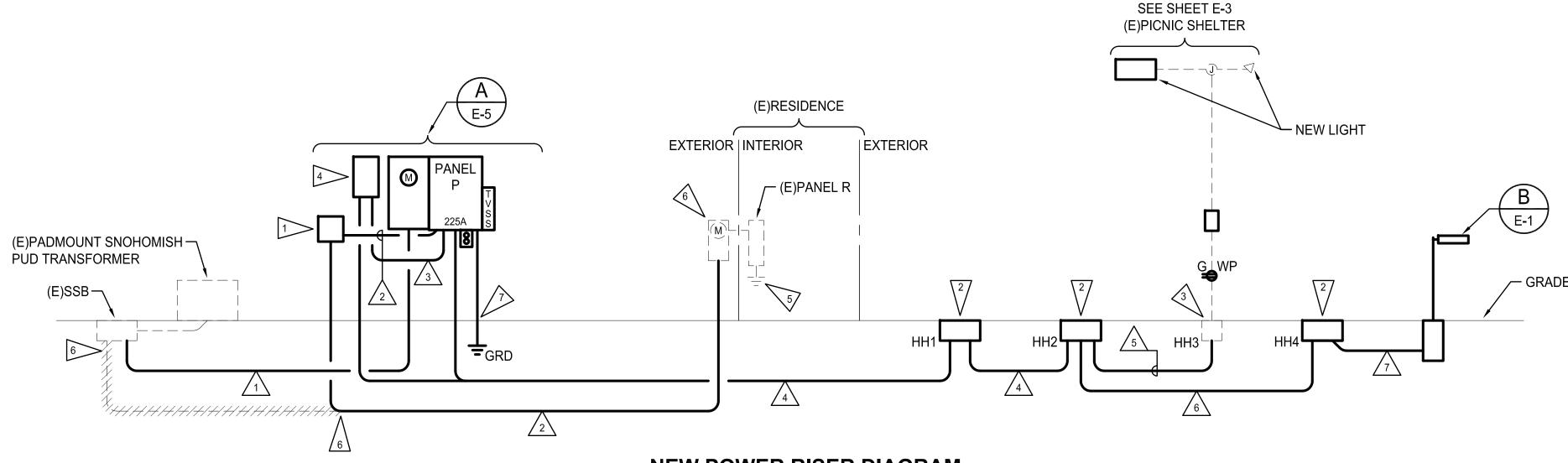
/3\ 1"C-(3)#10 CU & (1)#10 CU GRD

/4\ (1)2"C-EMPTY WITH PULLSTRING - FROM PANEL P (1)2"C-(3)#8 CU & (1)#8 CU GRD FROM TIMECLOCK

√5 (1)1"C-EMPTY WITH PULLSTRING (1)1"C-(3)#12 CU & (1)#12 CU GRD

(1)2"C-EMPTY WITH PULLSTRING (1)2"C-(2)#8 CU & (1)#8 CU GRD

7 1"C-(2)#8 CU & (1)#8 CU GRD



**NEW POWER RISER DIAGRAM** NO SCALE



APPROVED FOR CONSTRUCTION PFN: 19-103913LDA

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|          | REV | DATE | BY | APP'D | DESCRIPTION | DESIGNED BY: | GLW          |
|----------|-----|------|----|-------|-------------|--------------|--------------|
| <u>}</u> |     |      |    |       |             | DRAWN BY:    | JAE          |
|          |     |      |    |       |             | CHECKED BY:  | GLW/SLH      |
|          |     |      |    |       |             | APPROVED BY: | GLW/SLH      |
| 5        |     |      |    |       |             | SCALE:       | AS NOTED     |
|          |     |      |    |       |             | DATE:        | AUGUST, 2020 |
| 5/20     |     |      |    |       |             |              |              |
|          |     |      |    |       |             |              |              |

**NEW WORK** 

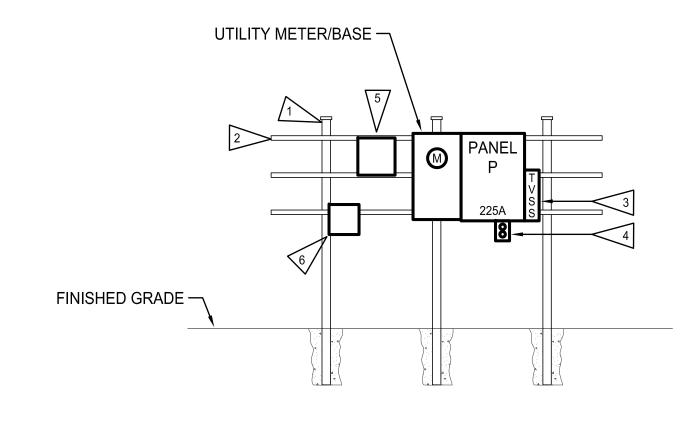
## **MEADOWDALE BEACH PARK AND ESTUARY DESIGN**

PFN 19-103913LDA

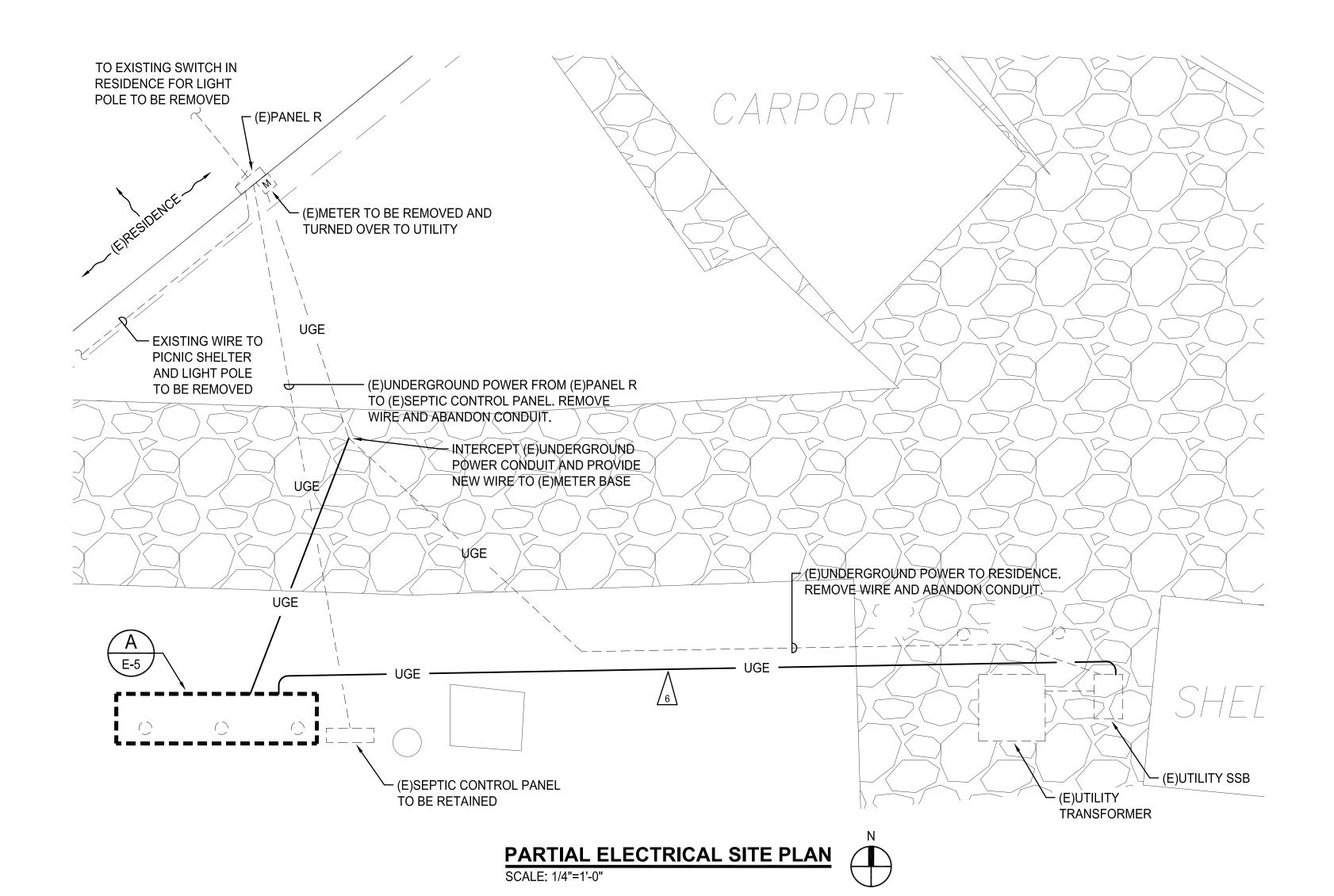
**NEW POWER RISER DIAGRAM** 

E-4

SHEET # 69 OF 81



#### **ELEVATION** A SERVICE EQUIPMENT MOUNTING



#### **ELECTRICAL NOTES:**

PROVIDE 8'-0" SECTION OF 3" RIGID GALVANIZED STEEL CONDUIT WITH THREADED END CAP. PROVIDE 8" ROUND x 3'-0" DEEP, 3000 PSI, CONCRETE BASE AND EMBED CONDUIT 3'-0" BELOW FINISHED GRADE. TYPICAL OF THREE(3). STAKE LOCATION AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION.

PROVIDE (3)1-5/8" HOT DIP GALVANIZED STRUT BETWEEN RIGID STEEL CONDUIT POSTS FOR MOUNTING EQUIPMENT. DRILL CONDUIT AND PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR STRUT AND EQUIPMENT MOUNTING.

PROVIDE NEMA 3R, TRANSIENT VOLTAGE SURGE PROTECTIVE DEVICE (TVSS). SIEMENS TPS3A1115D2 OR OWNER APPROVED EQUAL. PROVIDE 3/4" CONDUIT NIPPLE AND 5#10 CU, WITH 30/2P CIRCUIT BREAKER IN PANEL.

PROVIDE 120V, 20A, GFCI DUPLEX RECEPTACLE WITH A NEMA 3R "IN-USE" COVER.

TIMECLOCK. SEE POWER RISER DIAGRAM SHEET E-4.

ENCLOSED CIRCUIT BREAKER. SEE POWER RISER DIAGRAM SHEET E-4.

NEMA 3R, GASKETED, DOOR IN DOOR

| SURFACE MOUNTING PANEL SCHEDULE 25,000 AIC   |       |           |                     |     |            |  |          |        |                        |            |
|--|-------|-----------|---------------------|-----|------------|--|----------|--------|------------------------|------------|
| NO. P LOCATION: BY PUD TRANSFORMER SERVING: SITE/ RESIDENCE                                      |       |           |                     |     |            | 240/120 VOLTS 1PHASE 3WIRE<br>225 AMPS WITH 225 MAIN BREAKER |          |        |                        |            |
| CKT<br>NO.   |       | LOA       | AD DESCRIPTION      | KVA | TRIP SAMPS | TRIP KVA LOAD DESCRIPTION                                    |          |        | LOAD DESCRIPTION       | CKT<br>NO. |
| 1  | SPA   | CE        |                     | -   | ~          | +~_  | 20       |        | SPARE                  | 2          |
| 3  |       |           |                     |     |            | $+$ $\sim_{-}$   |          |        |                        | 4          |
| 5  |       |           |                     |     |            | $+ \smallfrown_{-}$  |          |        |                        | 6          |
| 7  |       |           |                     |     |            | $+$ $\sim_{-}$   |          |        |                        | 8          |
| 9  |       |           |                     |     |            | $+ \smallfrown_{-}$  |          |        |                        | 10         |
| 11   |       |           |                     |     |            | $+$ $\sim_{-}$   |          |        | ▼                      | 12         |
| 13   |       |           |                     |     |            | $+ \smallfrown$ _  |          |        | SPARE                  | 14         |
| 15   |       |           |                     |     |            | $+$ $\sim_{-}$   |          | .18    | SHELTER RECEPTACLE     | 16         |
| 17   |       |           |                     |     |            | $+ \smallfrown_{-}$  |          | .26    | SHELTER LTS/POLE LIGHT | 18         |
| 19   |       |           |                     |     |            | $+$ $\sim_{-}$   |          | .20    |                        | 20         |
| 21   |       |           |                     |     |            | $+ \smallfrown_{-}$  |          | .10    | TIMECLOCK              | 22         |
| 23   |       |           |                     |     |            | $+$ $^{-}$   | <b>†</b> | .10    |                        | 24         |
| 25   |       |           |                     |     |            | _  | 20       | .18    | RECEPTACLE             | 26         |
| 27   | •     |           |                     |     |            | <del> </del>   | 30/      | -      | TVSS                   | 28         |
| 29   | SPA   | <u>CE</u> |                     |     |            | $\bot  $   | _2       |        |                        | 30         |
| REM  | IARK: |           | PROVIDE WITH FEED 1 |     |            | CON  | NEC      | TED LO | AD: 29.3 KVA 122 A     | MPS        |
| SERVE EXISTING RESIDENCE PANEL R<br>NEW ENCLOSED CIRCUIT BREAKER. DEMAND LOAD: 29.5 KVA 123 AMPS |       |           |                     |     |            |  |          |        |                        |            |

PROVIDE HANDLE TIES FOR ALL MULTI-CIRCUIT HOMERUNS SHARING A NEUTRAL PER THE NATIONAL ELECTRIC CODE ARTICLE 210.4 MULTIWIRE BRANCH CIRCUITS, PART (B) DISCONNECTING MEANS. DRAWINGS ARE DIAGRAMMATIC. WHERE THE CONTRACTOR MODIFIES THE CIRCUITING, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL NEUTRAL PER CIRCUIT, MULTI-POLE CIRCUIT BREAKERS, OR CIRCUIT BREAKER HANDLE TIE TO MEET THE NEC ARTICLE. ALL COSTS ASSOCIATED WITH MODIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.



100% CONSTRUCTION DRAWINGS/BID SET







| REV | DATE | BY | APP'D | DESCRIPTION | DESIGNED BY: | GLW          |
|-----|------|----|-------|-------------|--------------|--------------|
|     |      |    |       |             | DRAWN BY:    | JAE          |
|     |      |    |       |             | CHECKED BY:  | GLW/SLH      |
|     |      |    |       |             | APPROVED BY: | GLW/SLH      |
|     |      |    |       |             | SCALE:       | AS NOTED     |
|     |      |    |       |             | DATE:        | AUGUST, 2020 |
|     |      |    |       |             |              |              |

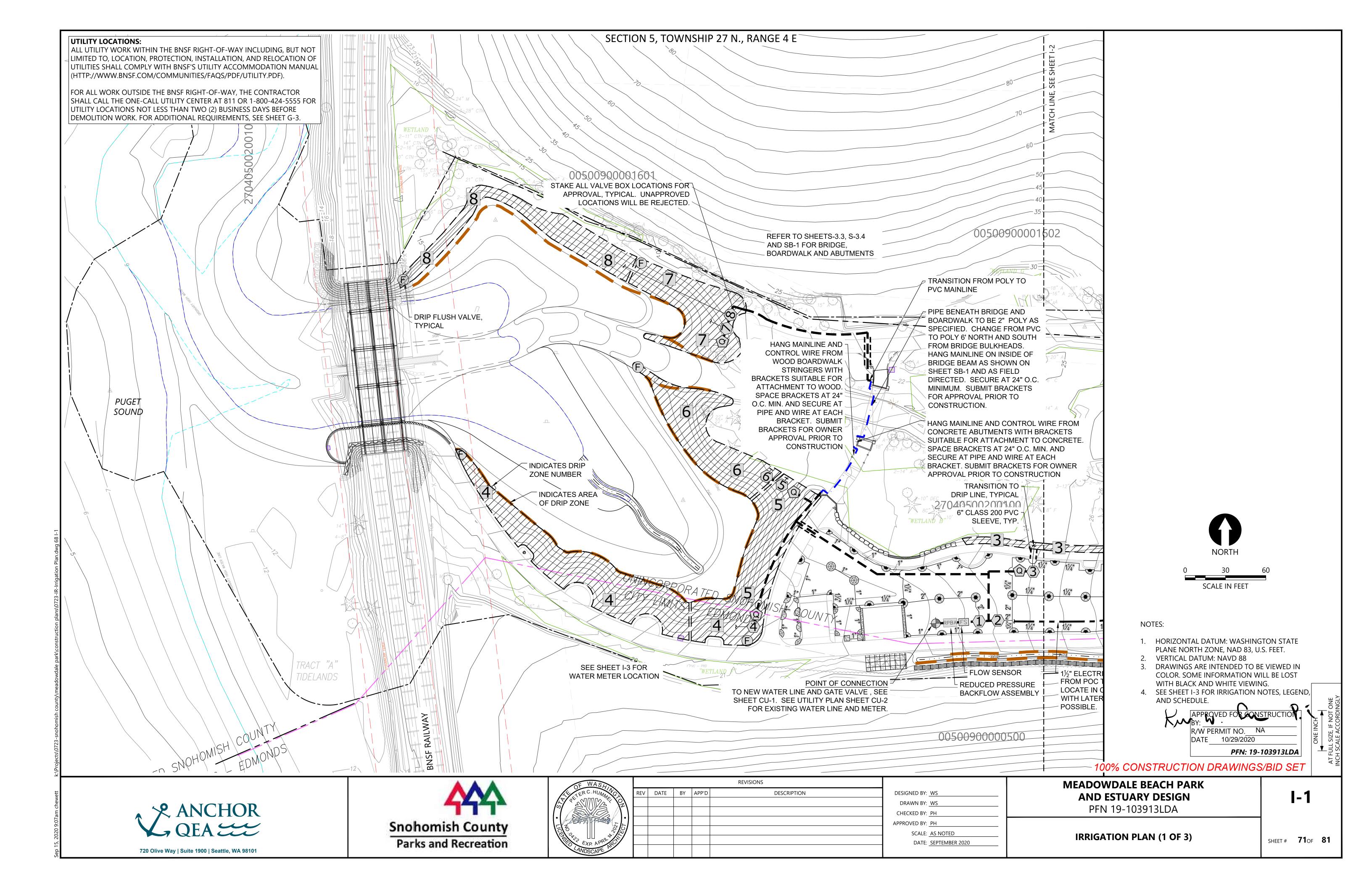
**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** 

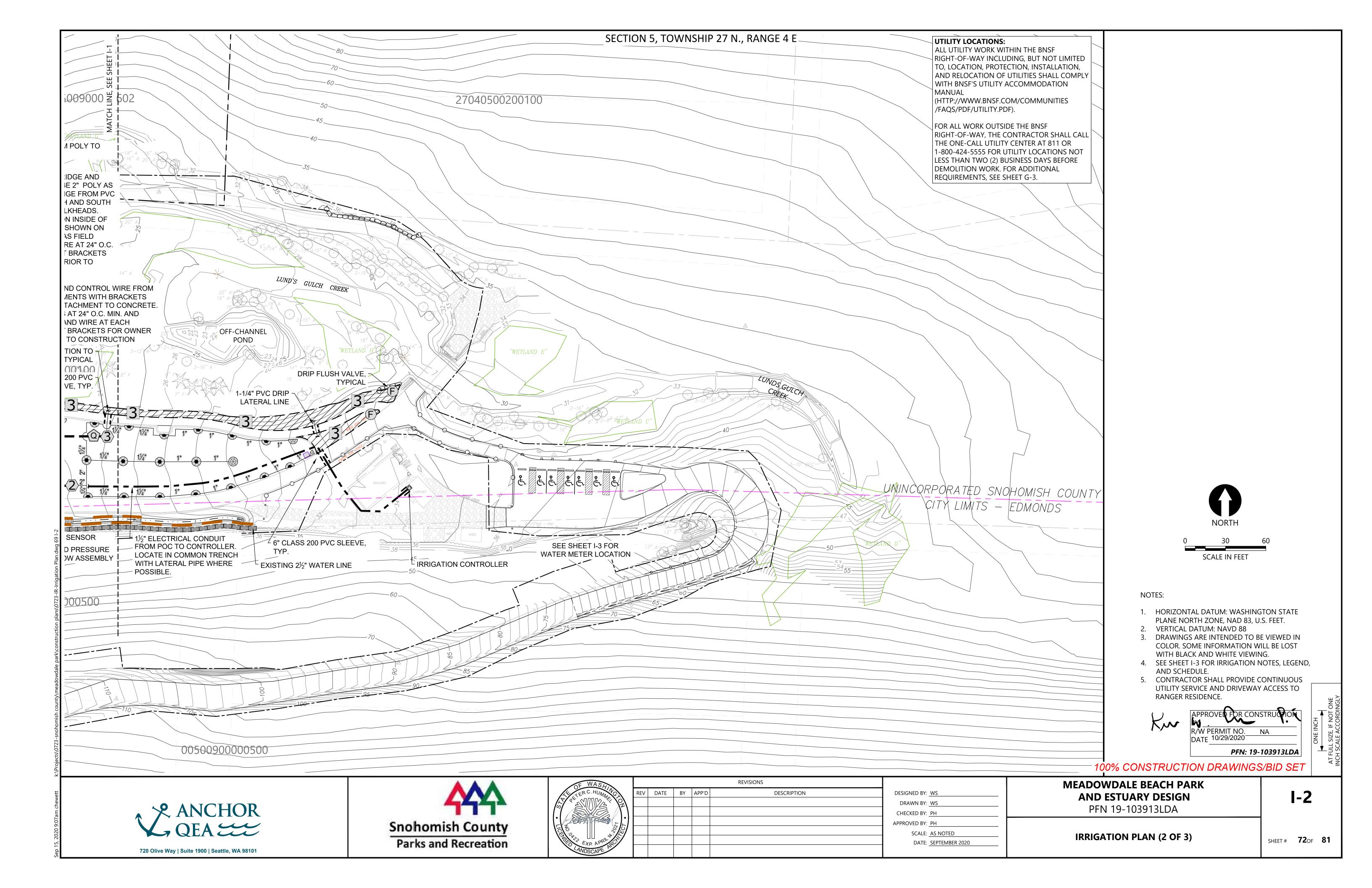
PFN 19-103913LDA

PARTIAL ELECTRICAL SITE PLAN/ **DETAILS/SCHEDULES** 

E-5

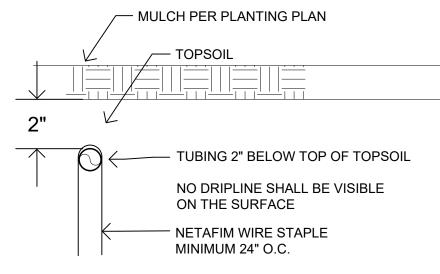
SHEET # 70 OF 81





#### **IRRIGATION NOTES**

- 1. PROVIDE SPARE WIRES AT ENDS OF MAINLINE AS INDICATED ON PLAN. LOOP SPARES THROUGH EACH INTERMEDIATE VAULT BACK TO CONTROLLER. LABEL ALL WIRES AS THEY PASS THROUGH EACH VAULT. USE 3M-DBY WIRE CONNECTORS.
- 2. STAKE ALL VALVE BOX LOCATIONS FOR APPROVAL. PLAN IS DIAGRAMMATIC. NO VAULTS TO BE PLACED WITHIN TURF AREAS OR PLAYFIELDS. SET VALVE BOXES SQUARE TO ADJACENT BUILDING, CURB, OR PAVING.
- 3. ALL IRRIGATION UNDER BUILDINGS, ROADS, WALKS, PARKING AREAS OR OTHER PAVED SURFACES SHALL BE SLEEVED. SLEEVES SHALL BE 6" MINIMUM, OR AS INDICATED. SLEEVING MAY BE INCLUDED FOR FUTURE WORK. SLEEVES TO MAINTAIN CODE REQUIRED 12" SEPARATION FROM ELECTRIC, STORM, AND OTHER UTILITIES. REFER TO CIVIL, PLUMBING AND OTHER DRAWINGS.. AND 36" FOR FIRE LINES.
- 4. ALL PIPE AND VALVES SHOWN UNDER PAVING ADJACENT AND PARALLEL TO PLANTED AREAS IS INTENDED TO BE PLACED IN THAT AREA WHERE POSSIBLE. ALL MATERIAL TO BE INSTALLED ON OWNERS PROPERTY.
- 5. INSTALL IN-LINE CHECK VALVES ON LATERAL EVERY 8' OF ELEVATION CHANGE WHERE THERE IS 10' OR MORE OF ELEVATION CHANGE ACROSS A ZONE.
- 6. MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY.
- 7. LATERAL LINES SHALL HAVE 18" OF COVER, AND MAIN LINES 24". 30" MAXIMUM COVER.
- 8. REFER TO PLANTING PLAN FOR EXACT LAYOUT. INTENT IS THAT ALL NEW PLANTINGS RECEIVE ADEQUATE WATER.
- TEST STATIC PRESSURE AT POINT OF CONNECTION & SUBMIT WRITTEN RESULTS TO LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK. PRESSURE IS ANTICIPATED TO BE IN EXCESS OF 100 PSI PER CITY OF EDMONDS WATER.
- 10. NO PIPING IS PERMITTED UNLESS WATER SUPPLY IS ACTIVE AND AVAILABLE.
- 11. USE VARIABLE ARC NOZZLES ONLY WHERE FIXED ARC NOZZLES ARE NOT SUFFICIENT.
- 12. SEE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION AND ADDITIONAL DETAILS.





#### **EQUIPMENT SCHEDULE**

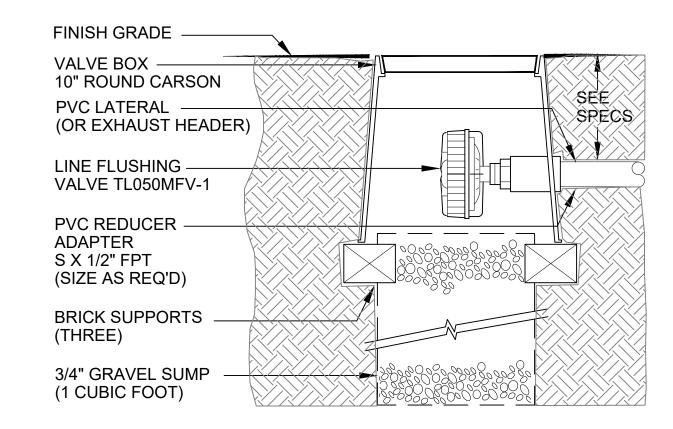
| SYMBOL      | DESCRIPTION  | P.S.I.      | RADIUS | DETAIL                        |
|-------------|--|-------------|--------|-------------------------------|
|             | RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP1000 ROTOR NOZZLE  | 45          | 15'    | 7                             |
|             | RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP2000 ROTOR NOZZLE  | 45          | 20'    | 7                             |
|             | RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP3000 ROTOR NOZZLE  | 45          | 30'    | 7                             |
| •           | EXISTING WATER METER IS NOT SHOWN - SEE SHEETS CU-2 AND CU-3   |             |        |                               |
| 4           | AUTOMATIC CONTROL VALVE, RAIN BIRD PEB SERIES PLASTIC, SIZE PER VALVE  | KEY         |        | 4                             |
| Q           | QUICK COUPLER VALVE - RAIN BIRD 44DLRC   |             |        | 5 1-4                         |
| C           | CONTROLLER - RAIN BIRD IQ MODEL LXMEF WITH NCC-4G COMMUNICATION CAR  | TRIDGE      |        | 4 1-3                         |
| RPBA        | 2" RPBA BACKFLOW ASSEMBLY, PRESSURE REGULATOR AND MASTER VALVE   |             |        | 1 2 1-4                       |
| FS          | 1-1/2" FLOW SENSOR   |             |        | 3 1-4                         |
| <b>\Phi</b> | ISOLATION VALVE  |             |        | 3<br> -4<br>  6<br> -4        |
| •           | IN-LINE CHECK VALVE, SAME SIZE AS PIPE. DIMENSION ON AS-BUILT DAILY.   |             |        |                               |
|             | NDS 17MM DRIPLINE MODEL SFCV-BR-6212-XX DRIPLINE WITH 0.6 GPH EMITTERS SPACING. REFER TO DETAILS SHEET I-3.  | AT 12"      |        | 2<br> -3<br> 3<br> -3<br> 1-3 |
| F           | NETAFIM DRIP FLUSH VALVE   |             |        | 1<br>J-3                      |
|             | 2" CLASS 200 PVC IRRIGATION MAINLINE   |             |        |                               |
|             | 2" 200 PSI RATED POLY PIPE IRRIGATION MAINLINE AT BRIDGE   |             |        |                               |
|             | SCHEDULE 40 PVC LATERAL PIPE - SIZE AS INDICATED. MINIMUM 1" SIZE, NO 1/2"   | ' OR 3/4" F | PIPE.  |                               |
|             | CLASS 200 PVC SLEEVE - 6" SIZE UNLESS OTHERWISE INDICATED  |             |        | 7                             |
| 4           | SYMBOL INDICATING EXTENT OF INDIVIDUAL DRIP IRRIGATION ZONES   |             |        |                               |
|             | 1-1/2" ELECTRICAL CONDUIT ROUTE FROM POINT OF CONNECTION TO CONTROL  | LER.        |        |                               |
| NOT SHOWN   | 12 AWS TYPE UF COMMON WIRE = WHITE. 14 AWS TYPE UF CONTROL WIRE, RED, BLACK = SIGNAL, YELLOW, ORANGE= SPAWIRE = BLUE. PAIGE P7171D COMMUINICATION WIRE FOR CONNECTION FROM FLOW SENSOR CONTROLLER. | ,           | TING   |                               |

#### VALVE KEY

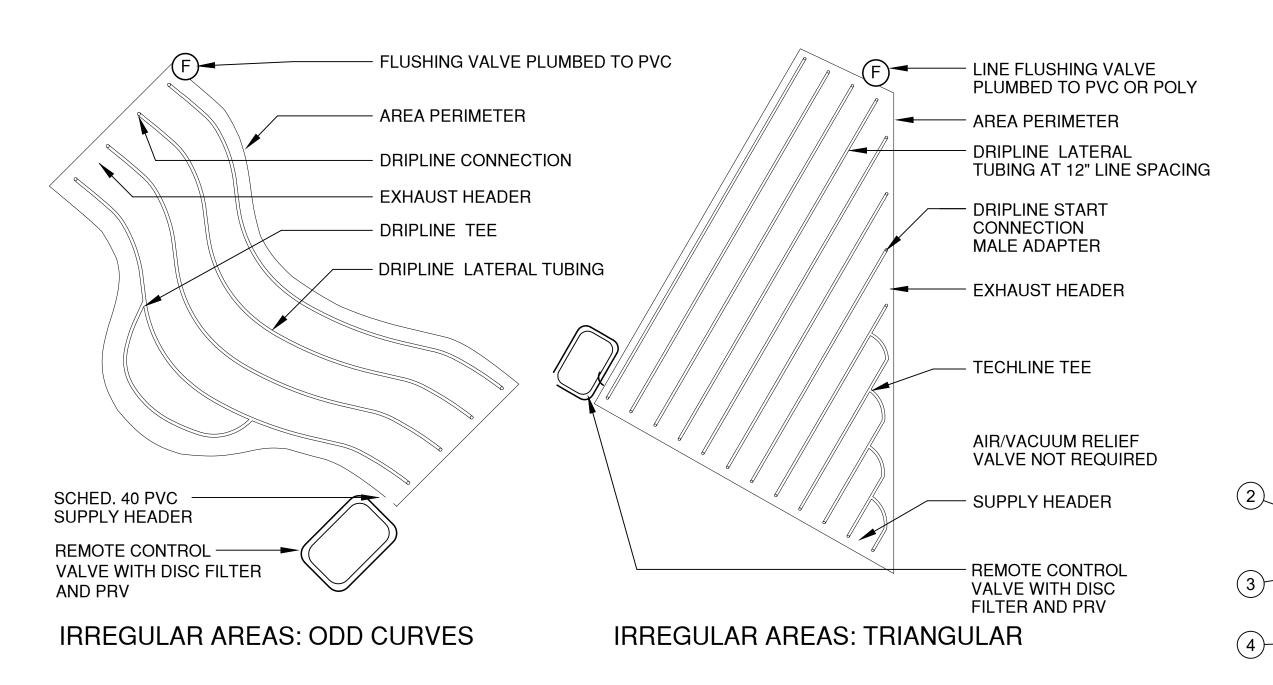
| VALVE | SIZE | GPM | PSI |
|-------|------|-----|-----|
| 1     | 1½"  | 44  | 45  |
| 2     | 1½"  | 48  | 45  |
| 3     | 1"   | 25  | 30  |
| 4     | 1½"  | 47  | 30  |
| 5     | 1½"  | 46  | 30  |
| 6     | 1½"  | 33  | 30  |
| 7     | 1½"  | 34  | 30  |
| 8     | 1"   | 28  | 30  |
| 9     | -    | -   | -   |
| 10    | -    | -   | -   |
| 11    | -    | -   | -   |
| 12    | -    | -   | -   |

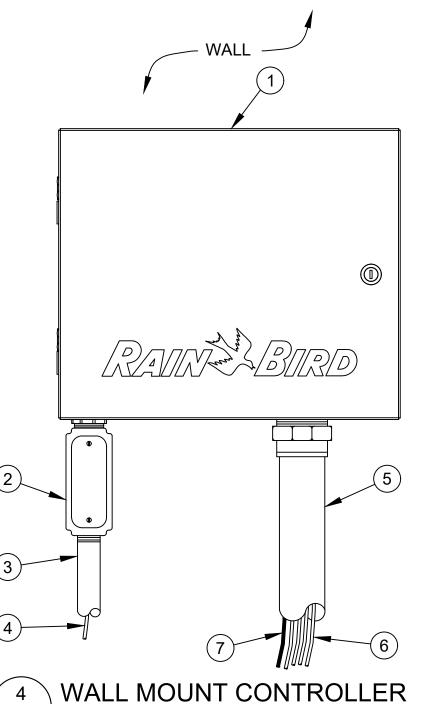
#### SCHEDULE 40 PVC LATERAL PIPE SIZING CHART

| 0-11 GPM   | 1"   |
|------------|--|
| 12-20 GPM  | 11/4"  |
| 21-30 GPM  | 1½"  |
| 31-50 GPM  | 2"   |
| 51-70 GPM  | 2½"  |
| 71-110 GPM | 3"   |
|            | 12-20 GPM<br>21-30 GPM<br>31-50 GPM<br>51-70 GPM |





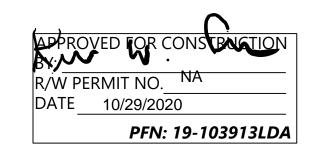




SCALE: NO SCALE

- (1) IRRIGATION CONTROLLER: RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN LXMM METAL CABINET WITH **OUTSIDE WALL**
- MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- (2) JUNCTION BOX
- (3) 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- (4) POWER SUPPLY WIRE
- (5) 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- (6) MASTER VALVE AND REMOTE CONTROL VALVE WIRES
- 7 FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR

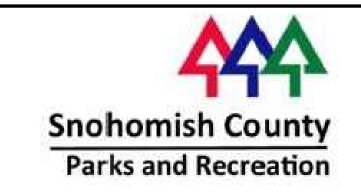
- USE STEEL CONDUIT FOR ABOVE GRADE AND SCH
- 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR
- LESS. 3. MOUNT CONTROLLER 60" ABOVE FLOOR



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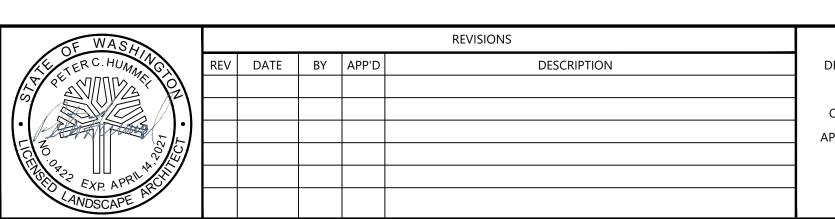


720 Olive Way | Suite 1900 | Seattle, WA 98101



DRIP LINE LAYOUT

SCALE: NO SCALE



DESIGNED BY: WS DRAWN BY: WS CHECKED BY: PH APPROVED BY: PH SCALE: AS NOTED DATE: SEPTEMBER 2020

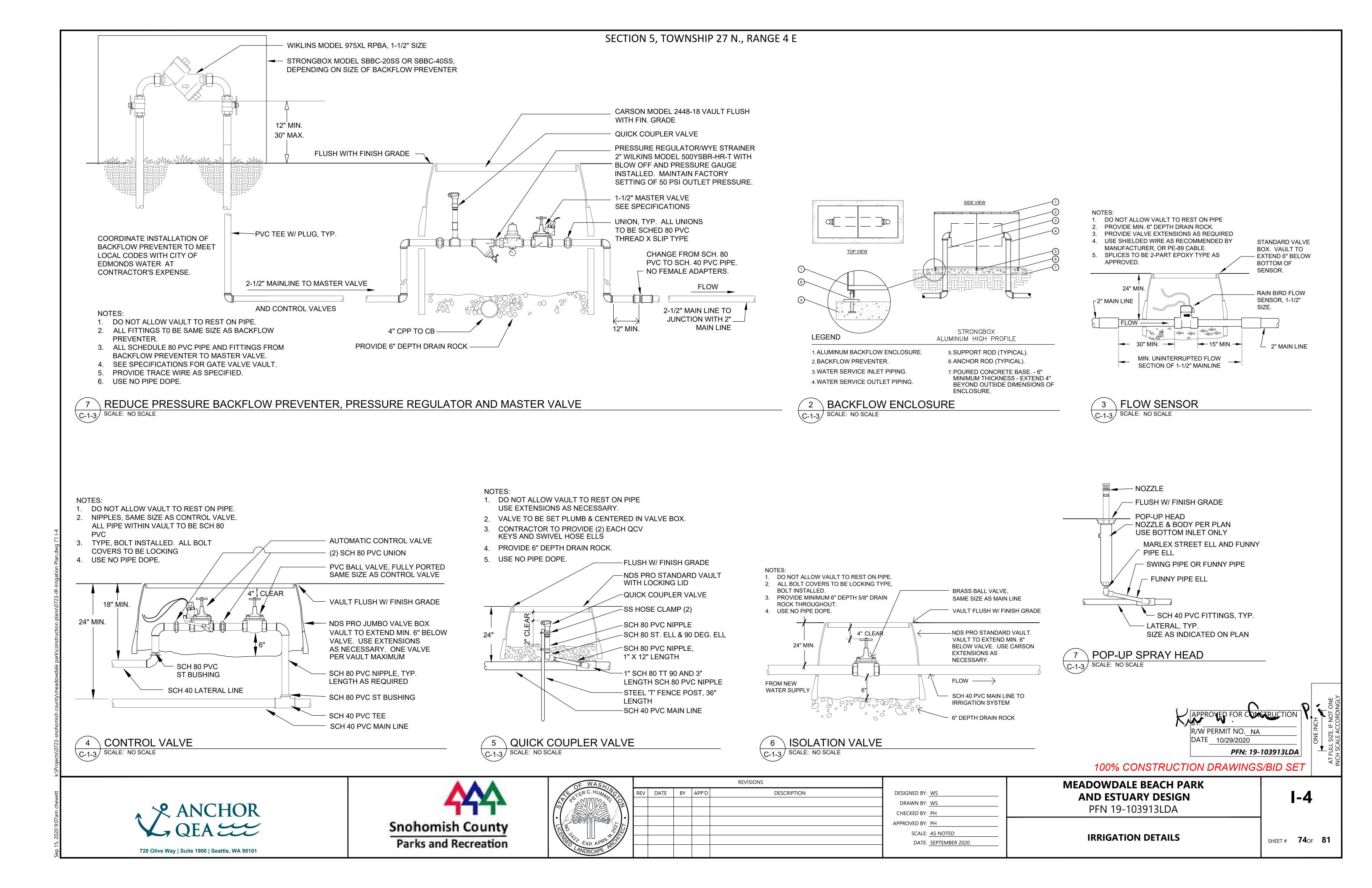
**MEADOWDALE BEACH PARK AND ESTUARY DESIGN** 

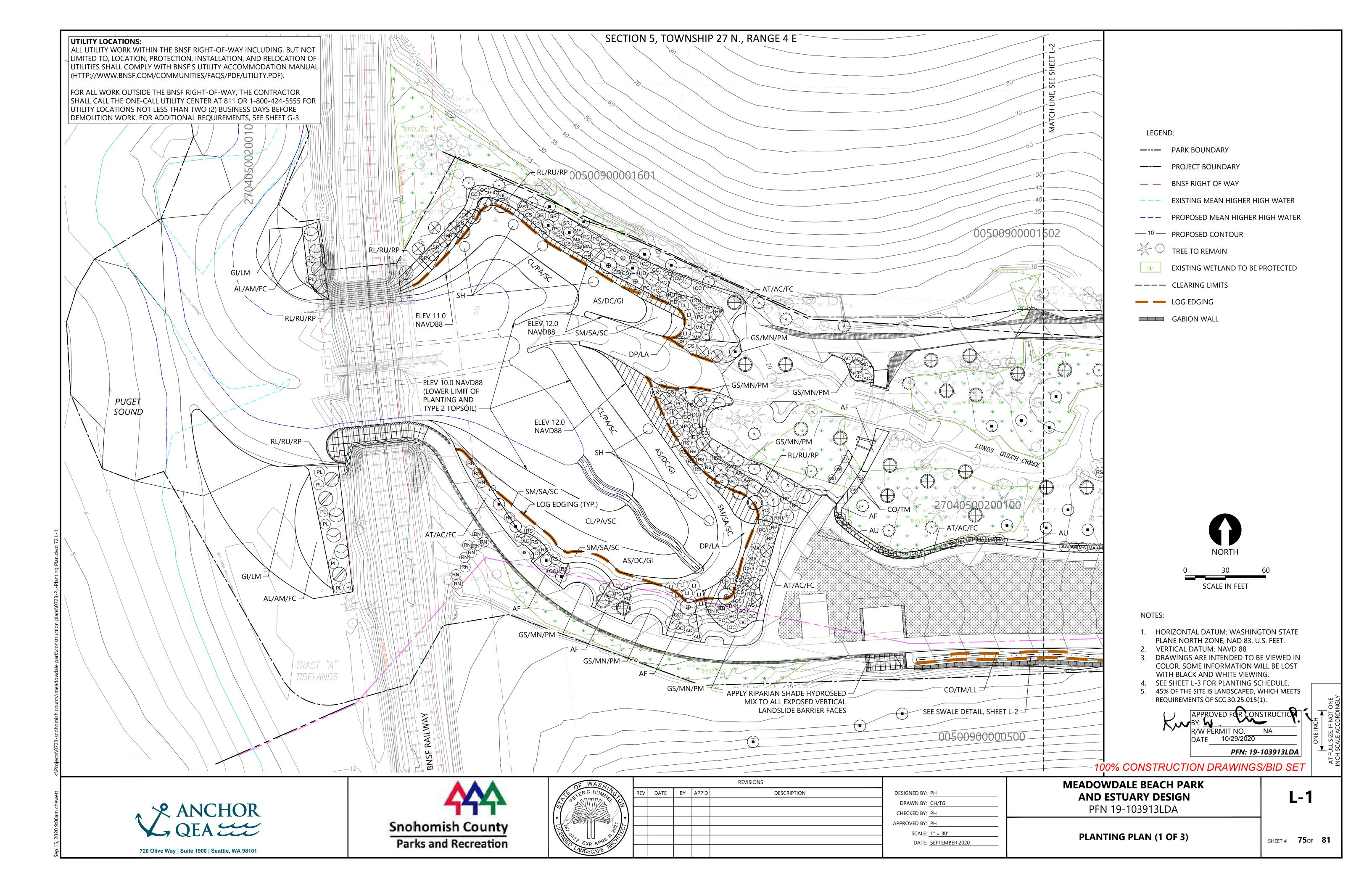
PFN 19-103913LDA

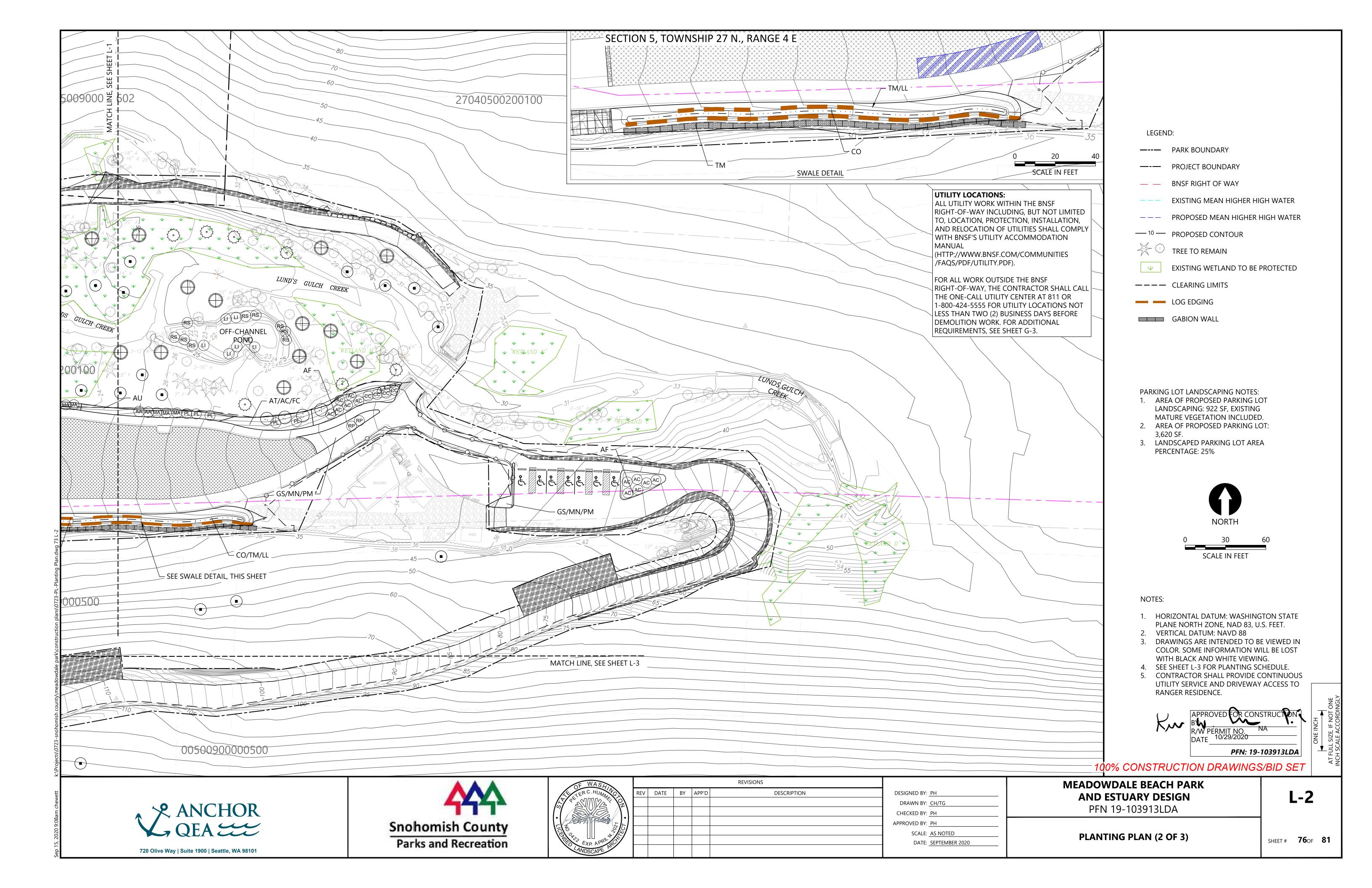
**IRRIGATION PLAN (3 OF 3)** 

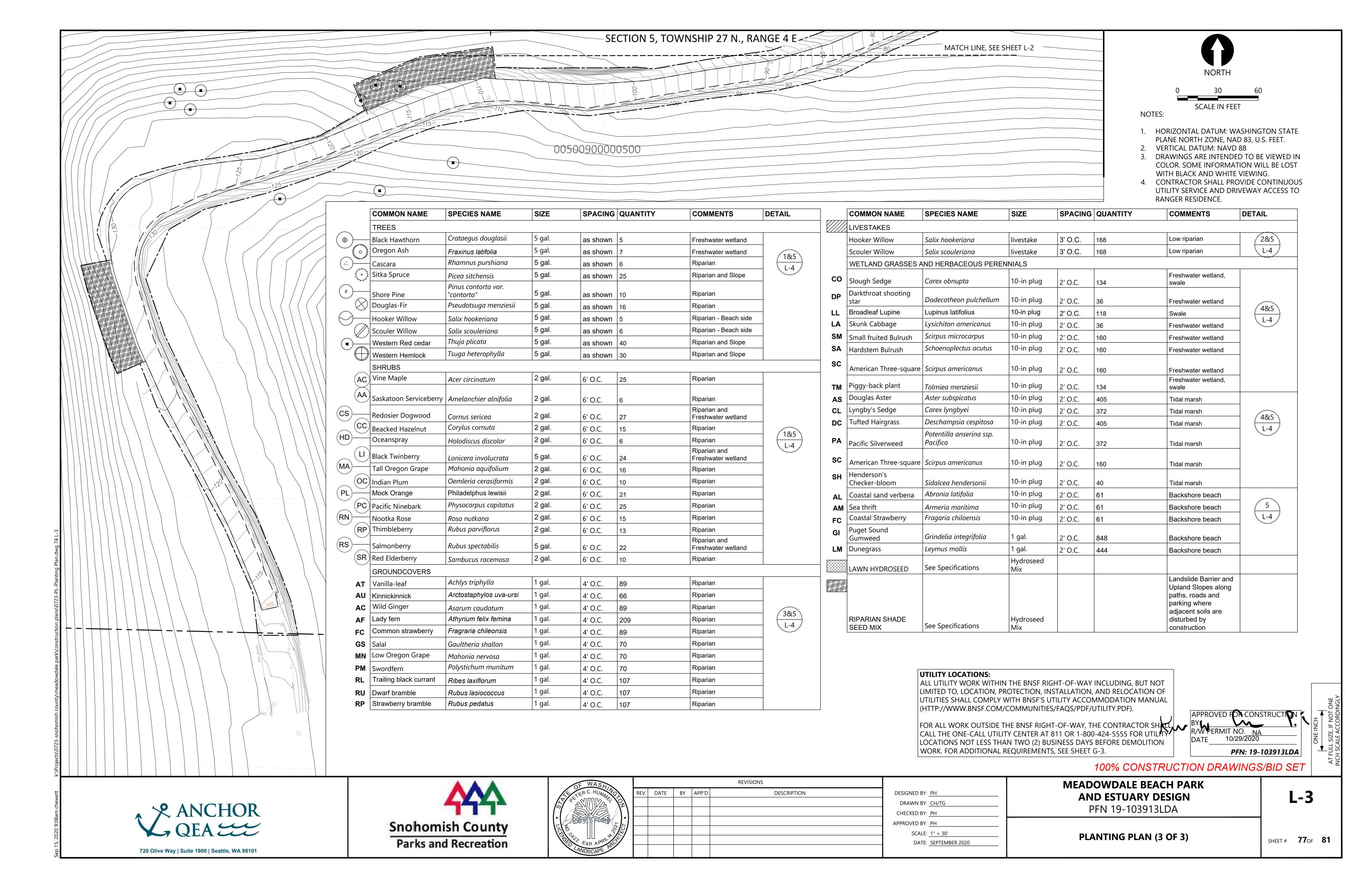
**I-3** 

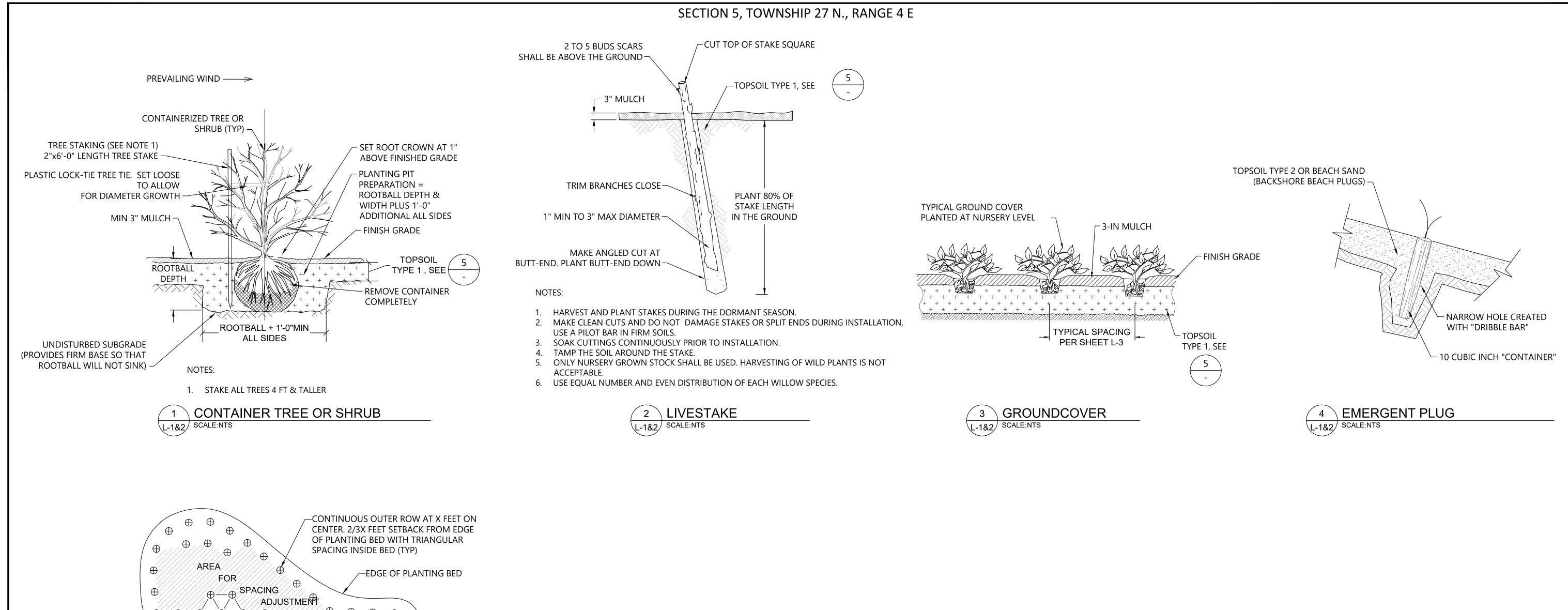
SHEET # **73**OF **81** 

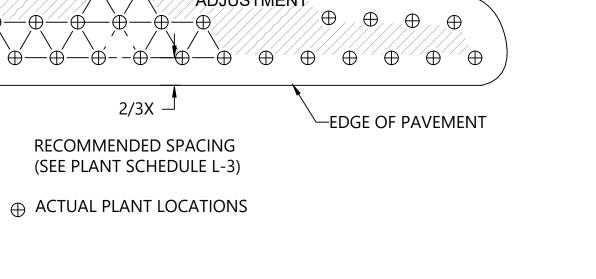




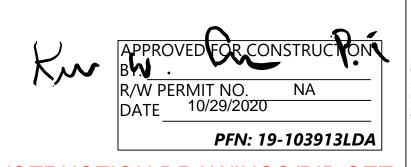








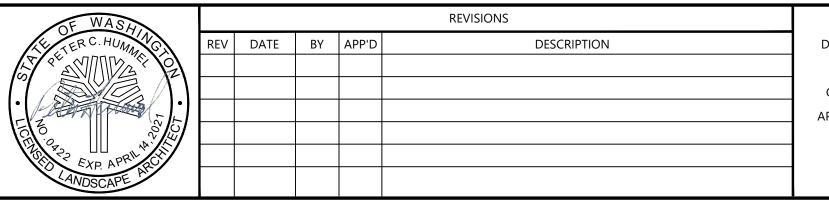




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Z ANCHOR QEASTINE TO Olive Way | Suite 1900 | Seattle, WA 98101





| DESIGNED BY: | PH             |  |
|--------------|----------------|--|
| DRAWN BY:    | CH/TG          |  |
| CHECKED BY:  | PH             |  |
| APPROVED BY: | PH             |  |
| SCALE:       | AS NOTED       |  |
| DATE:        | SEPTEMBER 2020 |  |
|              |                |  |

MEADOWDALE BEACH PARK AND ESTUARY DESIGN PFN 19-103913LDA

PLANTING DETAILS

L-4

SHEET # **78**OF **81** 

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