

Campus Drive Profile

Horz: 1"=20', Vert: 1"=4'

KITTELSON & ASSOCIATES

**Submission Date:** 06/15/2021 Designed: Checked AMR

PROJECT NO.

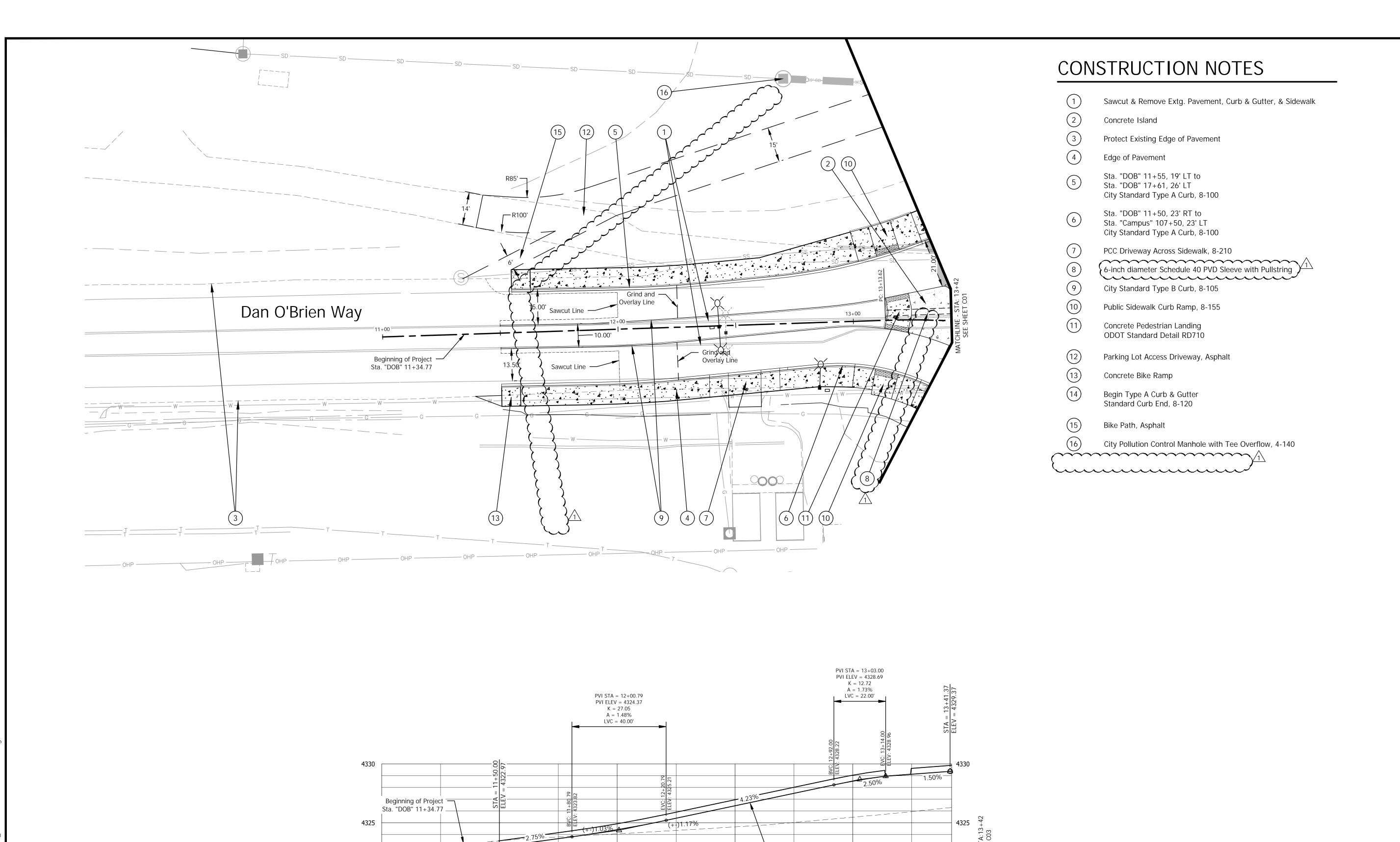
25616

Improvements e at Dan O'Brien Way

Roadway I Campus Drive

C01

21 of 63



\_ Extg. Grade @ CL \_\_

11+00

11+50

12+00

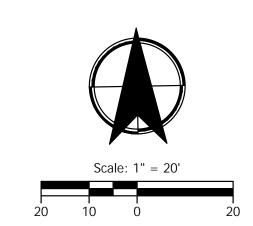
Dan O'Brien Way Profile

Proposed Grade @ CL

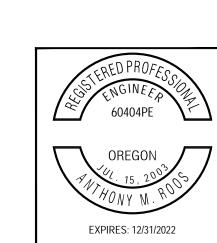
13+00

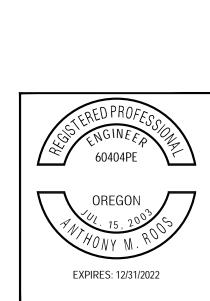
(4325.03) 4327.51

12+50



(XX.XX) = Extg. Grade @ CL XX.XX = Proposed Grade @ CL





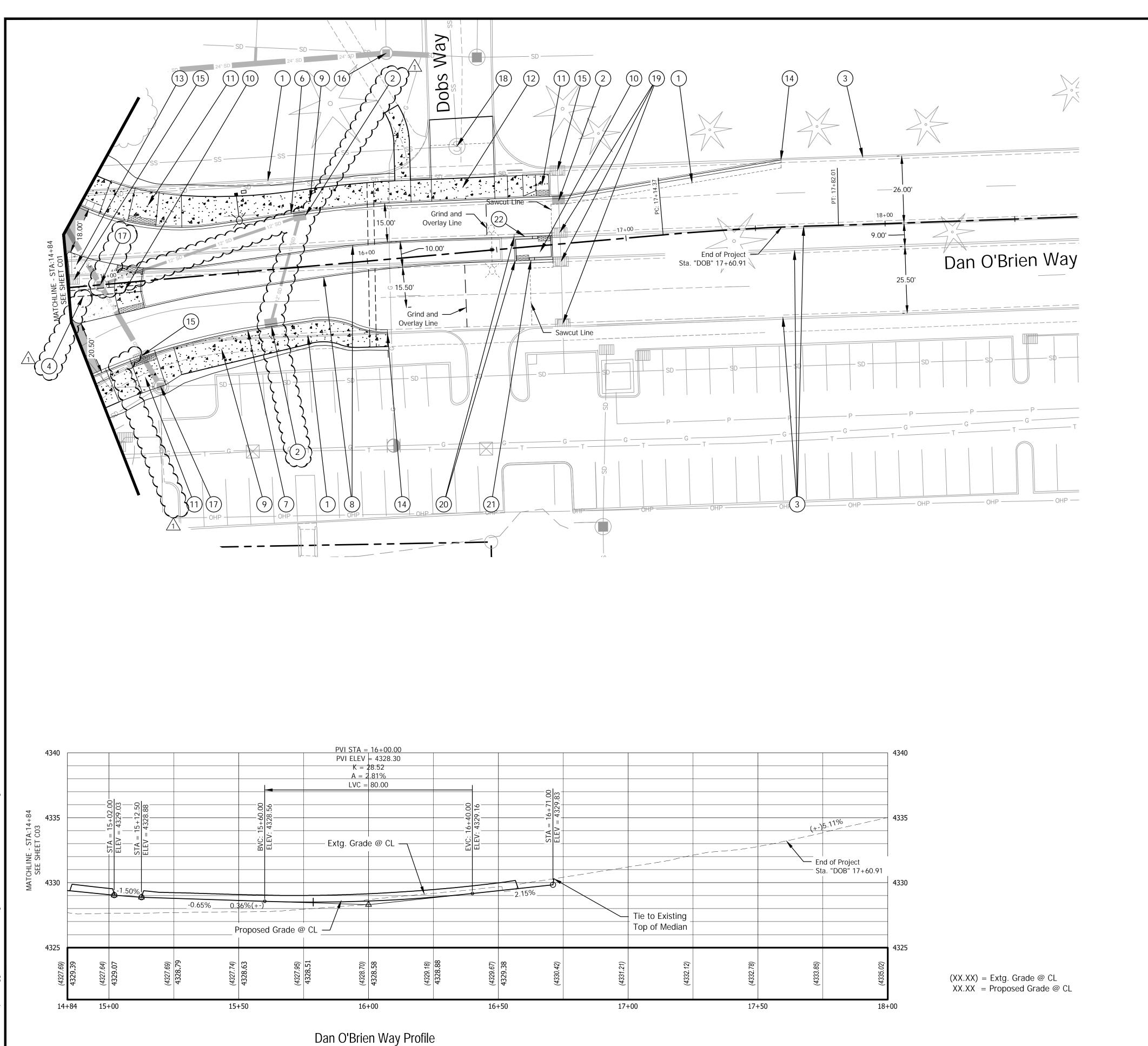
KITTELSON & ASSOCIATES

Submission Date: 06/15/2021 Drawn: BSC Designed: Checked: XXX AMR

PROJECT NO. 25616

Roadway Improvements Campus Drive at Dan O'Brien Way

SHEET NO. 22 of 63

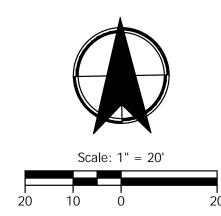


Horz: 1"=20', Vert: 1"=4'

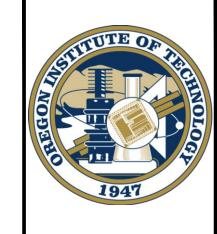
#### CONSTRUCTION NOTES

- Sawcut & Remove Extg. Pavement, Curb & Gutter, & Sidewalk
- City Standard Catch Basin, 4-105
- Protect Existing Curb, Curb & Gutter.
- ~~~~~<u>\1</u>\ 6-inch diameter Schedule 40 PVD Sleeve with Pullstring
- Sta. "DOB" 11+55, 19' LT to Sta. "DOB" 17+61, 26' LT City Standard Type A Curb, 8-100
- Sta. "Campus" 107+50, 20' RT to Sta. "DOB" 16+05, 28' RT City Standard Type A Curb, 8-100
- City Standard Type B Curb, 8-105
- City Standard PCC Sidewalk, 8-209
- Concrete Pedestrian Landing ODOT Standard Detail RD710
- Public Sidewalk Curb Ramp, 8-155
- PCC Driveway Across Sidewalk, 8-210
- Concrete Island
- End Type A Curb, Match Existing
- Remove Existing Catch Basin
- City Pollution Control Manhole with Tee Overflow, 4-140
- Adjust Sanitary Manhole to Grade
- Adjust Rim to Grade, Minor Adjustment
- Protect Existing Catch Basin
- End Type B Curb
- Sta. "DOB" 16+57, 5' RT to Sta. "DOB" 16+71, 6' RT
- City Standard Type A Curb, 8-100 Sta. "DOB" 16+57, 4' LT to Sta. "DOB" 16+71, 3.5' LT

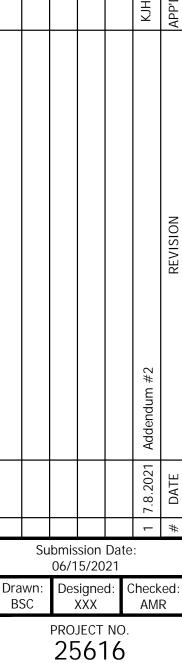
City Standard Type A Curb, 8-100





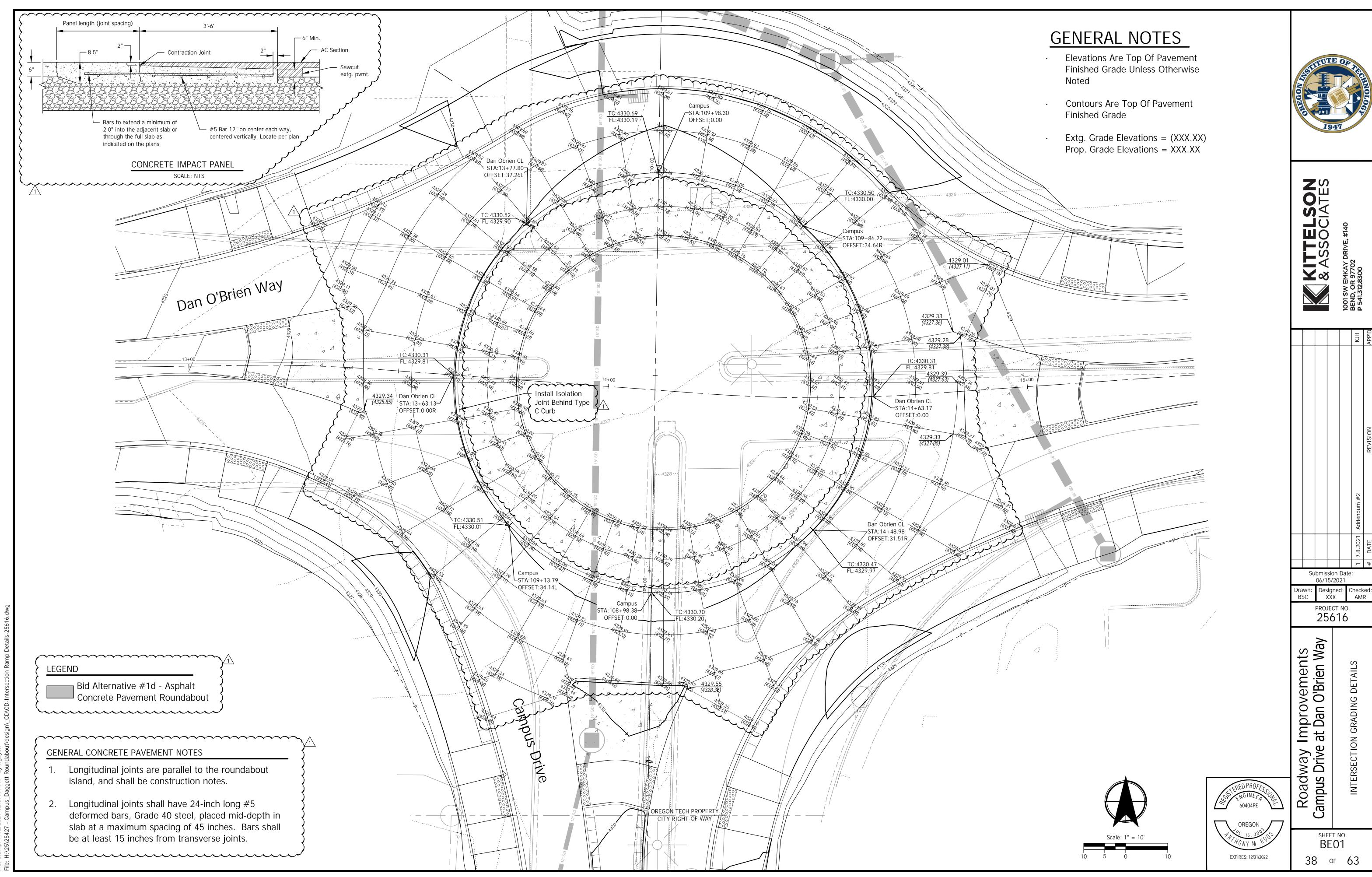


KITTELSON & ASSOCIATES



& NOTES

Roadway Improvements Campus Drive at Dan O'Brien Way C04 24 of 63



#### STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES

- Include a list all personnel (by name and position) that are responsible for the design, installation and maintenance of stormwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section 4.4 c.ii)
- Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)
- Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Sections 6.5q)
- Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)
- The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)
- The ESCP must be accurate and reflect site conditions. (Section 4.8)
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)
- Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)
- Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)
- Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetation buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)
- 11. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)
- Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)
- Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance.
- 14. Control both peak flow rates an total stormwater volume, to minimize erosion at outlets and downstream channels and streambanks. (Sections 2.1.1 and 2.2.16)
- 15. Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)
- Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads. (Sections 2.2.20 and 2.2.21)
- 18. Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)
- 19. Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure to wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge to pollutants (e.g., secondary containment). (Section 2.3.7)
- Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities. (Section 2.2.7)
- When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)
- Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Section 1.5 and 2.3.9)
- 23. Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)
- Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)
- 25. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicles and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, and pesticides and herbicides, paints, solvents, curing compounds and adhesive from construction operations. (Section 2.2.15 and 2.3)
- Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)
- If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (see Sections 2.2.17 and 2.2.18)
- Provide a dewatering plan fro accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)
- 29. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)
- Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)
- 31. The application rate for fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surfce waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)
- 32. If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacture's specifications. (Section 1.2.9)
- Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain evens at all times of the year. (section 2.2)
- 34. As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)
- Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal (Section 2.1.5.c)
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)
- Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)
- 39. The intentional washing of sedment into storm sewers or drainage ways must not occur. Vauuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19) Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar
- days. (Section 6.5.f) 41. Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw
- 42. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained soils must be removed and disposed of properly, unless needed for

#### LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES

- Implementation of the grading and erosion control plan and the construction, maintenance, replacement and upgrading of erosion control facilities is the responsibility of the applicant/owner and their contractor/subcontractors until all construction is completed and approved, and permanent cover is established on the site. Grading and erosion control shall comply with the construction documents and City standards.
- The stabilized construction entrance shall be installed prior to the beginning of construction and maintained for the duration of the project. It shall be sole entrance or egress from the site. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.
- The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the applicant/owner and their contractors/subcontractors for the duration of construction.
- Erosion control measures shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not leave the site.
- The erosion control facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these erosion control facilities shall be upgraded as needed for unexpected storm events or site condition and to ensure that sediment and sediment laden water do not leave the site.
- Erosion control facilities shall be inspected and maintained a minimum of once per month and within 24 hours following a storm event.
- 7. Visible deposits of sediment that leave the site shall be cleaned up within 24 hours and placed back onto the site or properly disposed. Under no condition shall sediment from the construction site be washed into sewers, drainage courses, or other portions of the conveyance system.
- Excess soil from the site shall be hauled to the site specified on the erosion control plan. A separate permit is required for the fill site if the quantity hauled exceeds 50 cubic yards.
- 9. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance systems shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.
- 10. Dust Control: Preventative measures to minimize wind transport of soil shall be implemented when a nuisance or traffic hazard may be created or when sediment transported by wind may be deposited in water resources.
- 11. Once construction is complete and permanent cover is established, call for final inspection from the City. Remove temporary erosion control measures when approved by the City
- 12. At the time of project close-out, for those requiring a DEQ 1200-C permit, the City will not accept the project until DEQ has satisfactorily approved the project and terminated the DEQ permit. In lieu of that requirement the developer will need to apply for a city site construction permit for grading purposes only. An updated plan and current fee will apply and be submitted with the permit application. The city permit will remain active until the developer has an approved termination of the 1200-C permit by DEQ, which a copy will be provided to the City

#### BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S

YEAR		2024												
	2021					2022								
BMPs MONTH #	8	9	10	11	12	1	2	3	4	5	6	7	8	9
BIOBAGS														
BIOSWALES														
CHECK DAMS														
COMPOST BERM														
COMPOST BLANKETS														
COMPOST SOCKS														
CONCRETE TRUCK WASHOUT	Х	Х	Х	Х	X	Х	X	X	X	Х	X	X	X	X
CONSTRUCTION ENTRANCE														
DEWATERING (TREATMENT LOCATION, SCHEMATIC, & SAMPLING PLAN REQ)														
DRAINAGE SWALES														
EARTH DIKES (STABILIZED)														
ENERGY DISSIPATERS														
EROSION CONTROL BLANKETS & MATS (SPECIFY TYPE)														
HYDROSEEDING														
INLET PROTECTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MULCHES (SPECIFY TYPE)														
MYCORRHIZAE/ BIOFILTERS														
NATURAL BUFFER ZONE														
ORANGE FENCING (PROTECTING SENSITIVE/PRESERVED AREAS)														
OUTLET PROTECTION														
PERMANENT SEEDING AND PLANTING														
PIPE SLOPE DRAINS														
PLASTIC SHEETING														
PRESERVE EXISTING VEGETATION														
SEDIMENT FENCING														
SEDIMENT BARRIER														
SEDIMENT TRAP														
SODDING														
SOIL TACKIFIERS														
STORM DRAIN INLET PROTECTION	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
STRAW WATTLES (OR OTHER MATERIALS)														
TEMPORARY DIVERSION DIKES														
TEMPORARY OR PERMANENT SEDIMENTATION BASINS														
TEMPORARY SEEDING AND PLANTING														
TREATMENT SYSTEM (O & M PLAN REQ)														
UNPAVED ROADS GRAVELED OR OTHER BMP ON THE ROAD														
VEGETATIVE BUFFER STRIPS														

ШO KITT & ASS

Submission Date: 06/15/2021 Designed: Checked KJH

> PROJECT NO. 25616

SITE CONSTRUCTION PERMIT SET City Engineering Division

Improvements e at Dan O'Brien Way way Drive Road Campus FB01

43 or 63

and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)

long term use following termination of permit coverage. (Section 2.2.21)

### PRE-CONSTRUCTION NOTES

All Base Erosion Sediment Control Measures (Inlet Protection, Perimeter Sediment Control, Gravel Construction Entrances, Etc.) Must Be In Place, Functional, And Approved In An Initial Inspection, Prior To Commencement Of Construction Activities.

Sediment Barriers Approved For Use Include Sediment Fence, Berms Constructed Out Of Mulch, Chippings, Or Other Suitable Material, Straw Wattles, Or Other Approved Materials.

Sensitive Resources Including, But Not Limited To, Trees, Wetlands, And Riparian Protection Areas Shall Be Clearly Delineated With Orange Construction Fencing In A Manner That Is Clearly Visible To Anyone In The Area. No Activities Are Permitted To Occur Beyond The Construction Barrier.

Tree Protection Fencing Shall Be 4' Tall Orange Construction Fence, Secured To 6' Tall Metal Posts, Driven 2' Into The Ground.

### GENERAL NOTES

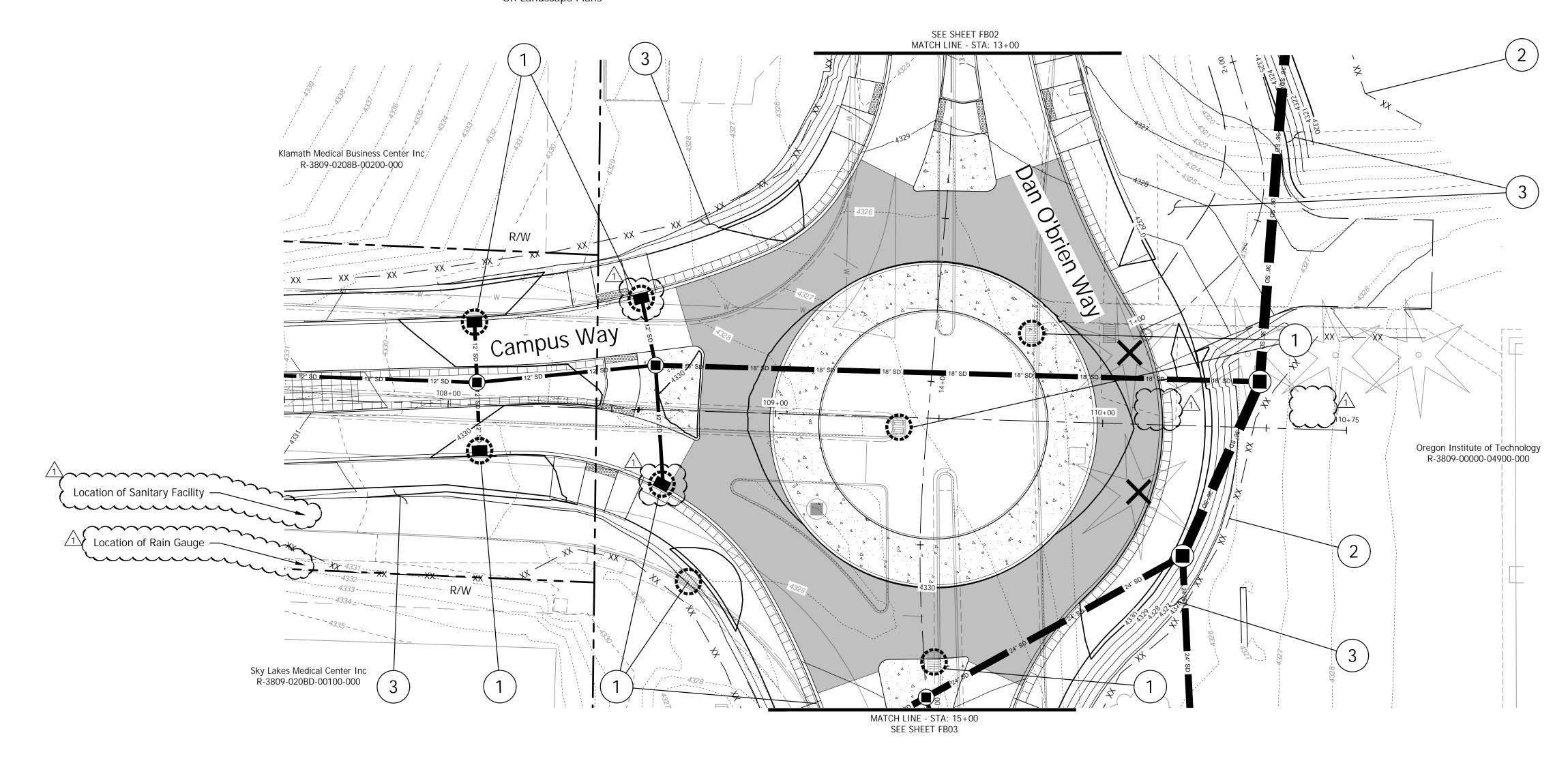
All Existing Inlets To Be Removed Shall Be Protected From Sediment Laden Water Until The Inlet Is Removed

Staging To Be Done Within Public ROW Or Approved Alternate

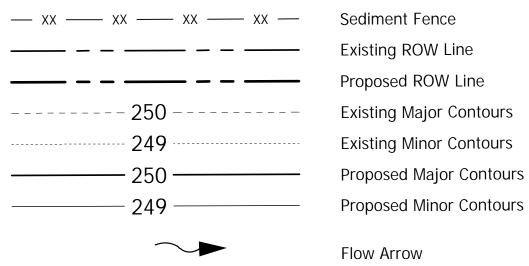
No Stock Piling Within Staging Areas, Without Contractor Supplied Erosion Control Plan

Erosion Control Details to Be Provided at 90% Submittal

Seed All Disturbed Areas With EC Mix Unless Otherwise Noted On Landscape Plans



## LEGEND



Extg./Proposed MH

Extg./Proposed CB

Inlet Protection



Concrete Washout Facility



Trees to Remain



Trees to Removed

## CONSTRUCTION NOTES



Install Inlet Protection. (For Details, See Sht. FB06)



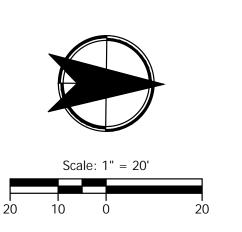
Install Sediment Fence. (For Details, See Sht. FB06)

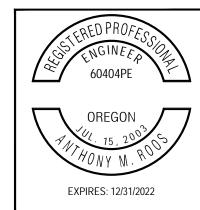


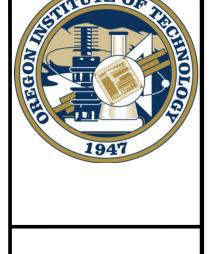
Area of Seed Restoration

SITE CONSTRUCTION PERMIT SET

City Engineering Division







KITTELSON

& ASSOCIATES

1001 SW EMKAY DRIVE, #140

					KJH	APP'D				
					Addendum #2	REVISION				
					7.8.2021	DATE				
					1	#				
Submission Date: 06/15/2021										
wn: SC	Des	signe KJH	d:	Checked: AMR						

Drawn: Designed: Ch BSC KJH

PROJECT NO.
25616

Improvements e at Dan O'Brien Way

Roadway Improve Campus Drive at Dan 0

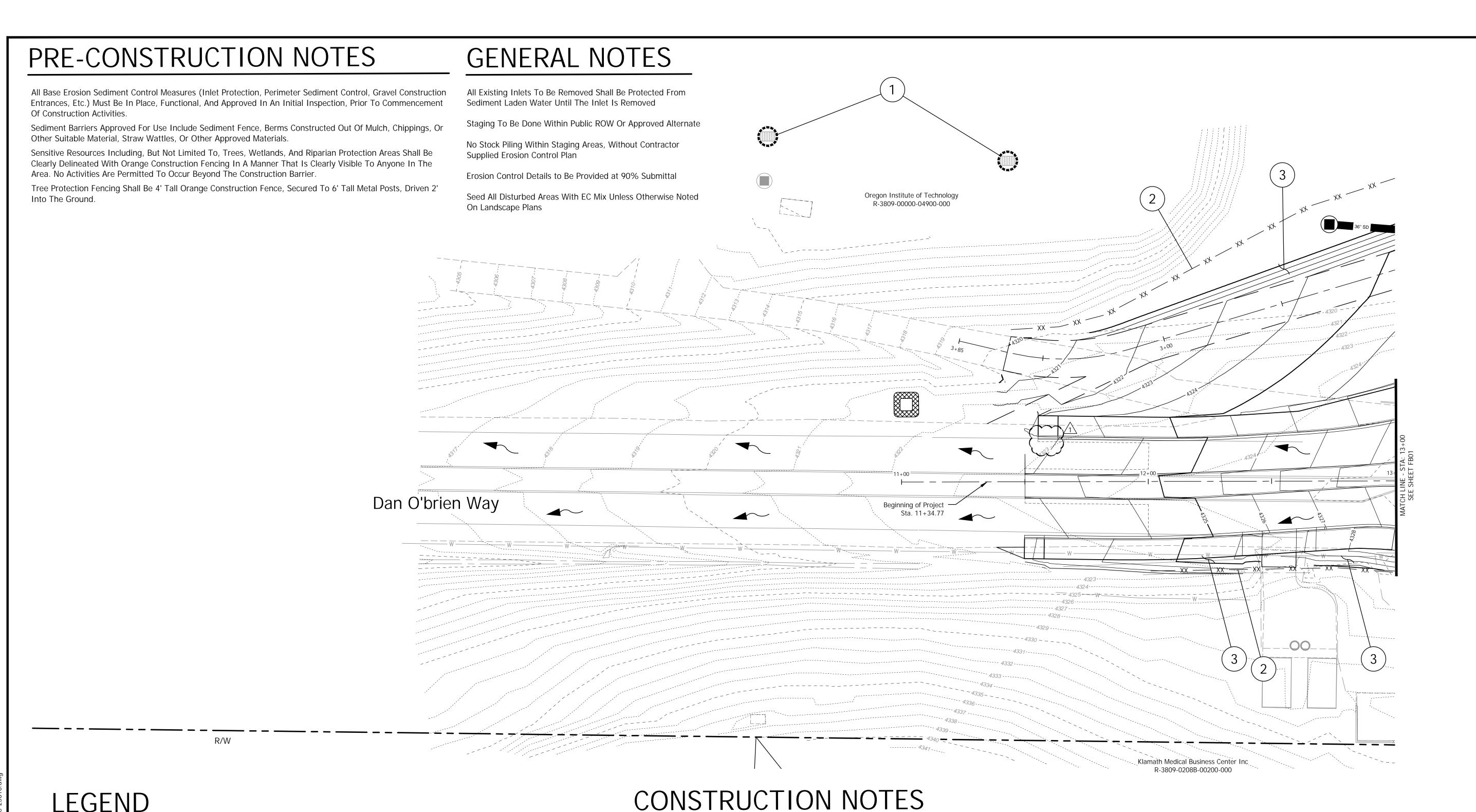
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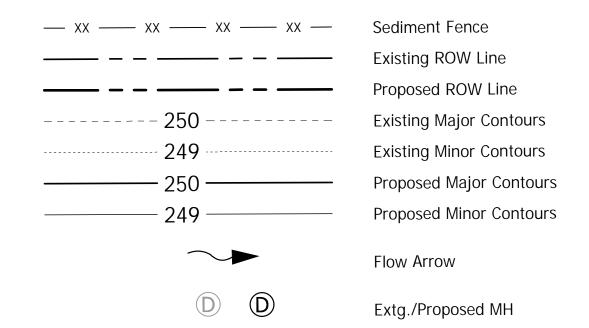
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SHEET NO. FB02

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#### LEGEND



Extg./Proposed CB

**Inlet Protection** 



Concrete Washout Facility



Trees to Remain



Trees to Removed



Install Inlet Protection. (For Details, See Sht. FB06)



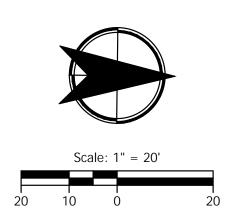
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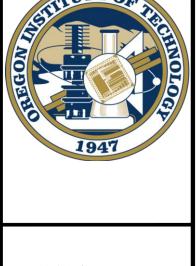


Area of Seed Restoration

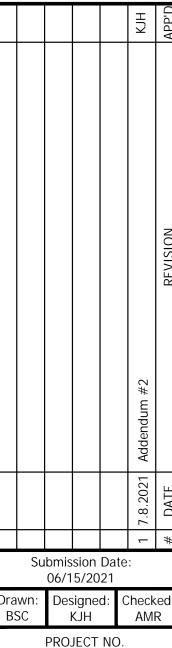
SITE CONSTRUCTION PERMIT SET

City Engineering Division





KITTELSON & ASSOCIATES



25616 Improvements e at Dan O'Brien Way Roadway I Campus Drive

FB03

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## PRE-CONSTRUCTION NOTES

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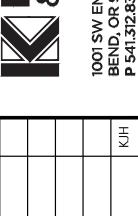
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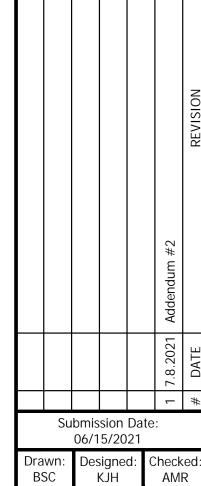
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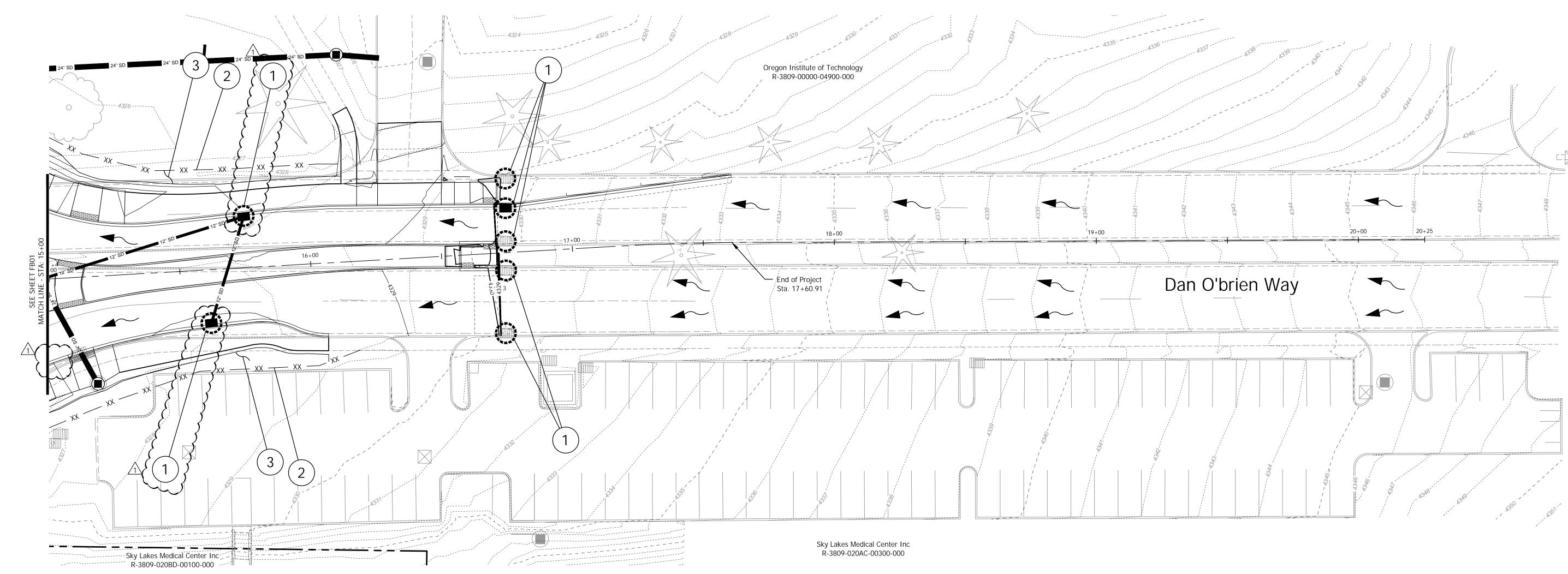
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Improvements e at Dan O'Brien Way

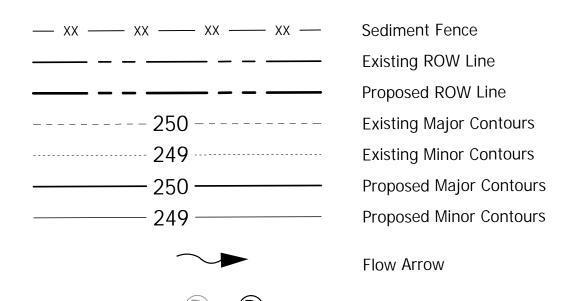
Roadway I Campus Drive

FB04

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# **LEGEND**



Extg./Proposed MH

Extg./Proposed CB



**Inlet Protection** 



Concrete Washout Facility



Trees to Remain



Trees to Removed



Install Sediment Fence. (For Details, See Sht. FB06)

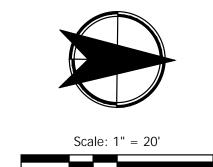
Install Inlet Protection.

(For Details, See Sht. FB06)

CONSTRUCTION NOTES



Area of Seed Restoration



SITE CONSTRUCTION PERMIT SET

City Engineering Division