



E & A CONSULTING GROUP, INC.

Engineering Answers

10909 Mill Valley Rd, Ste 100 | Omaha, NE 68154
402.895.4700
eacg.com

Dear Homeowner,

The SID has contracted concrete work to be done on the streets in your SID. A contractor will be on site to do work which includes removing the existing concrete that is damaged and replacing it with new pavement.

Throughout the course of this project, there could be some minimal damage done to yards and or sprinkler systems. The contractor that is on site will be responsible for replacing any damaged sprinkler lines and/or heads. They will also be responsible for any yard damage. Once the new seed and mat and/or sod is installed, it will be the responsibility of the homeowner at each lot to water the new seed and mat and/or sod until it has re-established itself.

Before starting the work on site, each contractor must put in a call and have all the utilities in the area located. You might notice some areas in your yard that have been flagged and/or spray painted. This does not indicate the area in which they will be working. It is just to give them an idea of what kind of utilities are in the area that could possibly be hit while the contractor is on site working.

All work that is completed in public Right-of-Way and follow City of Omaha and Sarpy County specifications.

The work in your SID should not take longer than 30 days to complete. Please let me know if you have any questions or concerns on this at all.

Thank You,

A handwritten signature in black ink, appearing to read 'Nelson Flores', is written over a white background.

Nelson Flores

Construction Admin Tech

Engineering Answers...by transforming concepts into reality

E & A Consulting Group, Inc.

10909 Mill Valley Road, Suite 100 • Omaha, NE 68154

402.895.4700 (o) • 402.506.5023 (m)

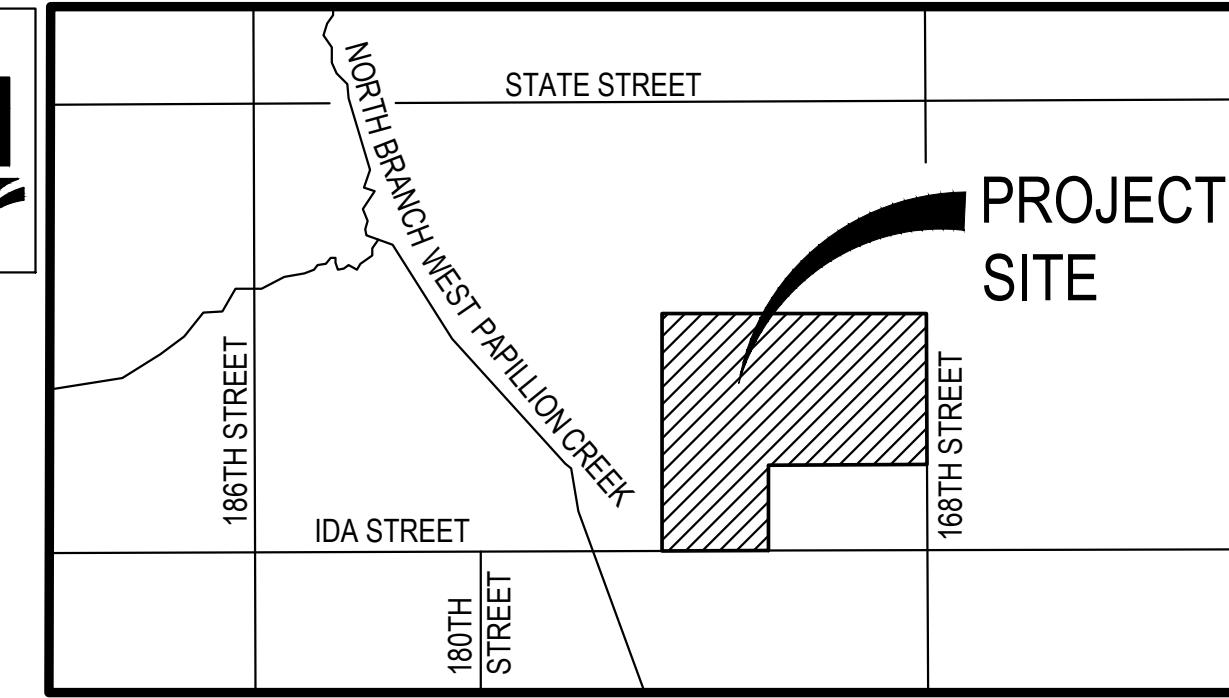
nflores@eacg.com

APPROXIMATE BID QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
1	INSTALL SILT FENCE	840	LF
2	INSTALL STRAW WATTLE	480	LF
3	INSTALL CURB INLET PROTECTION	5	EA
4	CLEARING & GRUBBING - GENERAL	1	LS
5	INSTALL CONSTRUCTION ENTRANCE	2	EA
6	EXCAVATE, DRY AND RE-COMPACT SILT OR HAUL OFF SITE	3,455	CY
7	EXCAVATION ON-SITE (ESTABLISHED QUANTITY)	4,876	CY
8	EXCAVATION HAUL-OFF (ESTABLISHED QUANTITY)	2,673	CY
9	REMOVE CMP RISER STRUCTURE AND BASE	4	EA
10	REMOVE 18" CMP	60	LF
11	REMOVE 24" CMP	52	LF
12	REMOVE 30" CMP	104	LF
13	REMOVE 42" CMP	28	LF
14	REMOVE 48" CMP	32	LF
15	REMOVE 18" RCP	42	LF
16	REMOVE 24" RCP	119	LF
17	REMOVE 30" RCP	10	LF
18	REMOVE 42" RCP	8	LF
19	REMOVE AND RELAY 18" FES	1	EA
20	REMOVE AND RELAY 24" FES	3	EA
21	REMOVE AND RELAY 30" FES	2	EA
22	REMOVE AND RELAY 42" FES	1	EA
23	CONSTRUCT 4" PCC 5' WIDE SIDEWALK	2,260	SF
24	REMOVE AND REPLACE 4" PCC 5' WIDE SIDEWALK	50	SF
25	REMOVE AND REPLACE 6" PCC WIDE SIDEWALK	540	SF
26	CONSTRUCT CURB RAMP	32	SF
27	CONSTRUCT DETECTABLE WARNING PANEL - CAST IRON (1)	8	SF
28	CONSTRUCT 18" RCP, CLASS III	112	LF
29	CONSTRUCT 24" RCP, CLASS III	96	LF
30	CONSTRUCT 30" RCP, CLASS III	160	LF
31	CONSTRUCT 42" RCP, D(0.01)=1,350	32	LF
32	CONSTRUCT 18" COLLAR	1	EA
33	CONSTRUCT 18" COLLAR (AS NEEDED FOR FES RE-USE)	1	EA
34	CONSTRUCT 24" COLLAR	2	EA
35	CONSTRUCT 24" COLLAR (AS NEEDED FOR FES RE-USE)	3	EA
36	CONSTRUCT 30" COLLAR	1	EA
37	CONSTRUCT 30" COLLAR (AS NEEDED FOR FES RE-USE)	2	EA
38	CONSTRUCT 42" COLLAR (AS NEEDED FOR FES RE-USE)	1	EA
39	CONSTRUCT 18" FES	1	EA
40	CONSTRUCT 30" FES	2	EA
41	CONSTRUCT 42" FES	1	EA
42	CONSTRUCT 54" MANHOLE (1)	12	VF
43	CONSTRUCT 54" TYPE II AREA INLET (3), MODIFIED	3	EA
44	CONSTRUCT 96" TYPE II AREA INLET (1), MODIFIED	1	EA
45	INSTALL NORTH AMERICAN GREEN S150 - TYPE A SEED & MAT	12,048	SY
46	INSTALL NORTH AMERICAN GREEN S150 - RAIN GARDEN MIX SEED & MAT	1,939	SY
47	INSTALL NORTH AMERICAN GREEN VMAX C350 - TYPE A SEED & MAT	667	SY
48	INSTALL SEED & COCONUT MAT - NRD MIX	340	SY
49	CONSTRUCT GEOWEB GW20V GEOCELLS	900	SF
50	CONSTRUCT RIP-RAP SCOUR HOLE, TYPE A	85	TN

ANCHOR POINTE

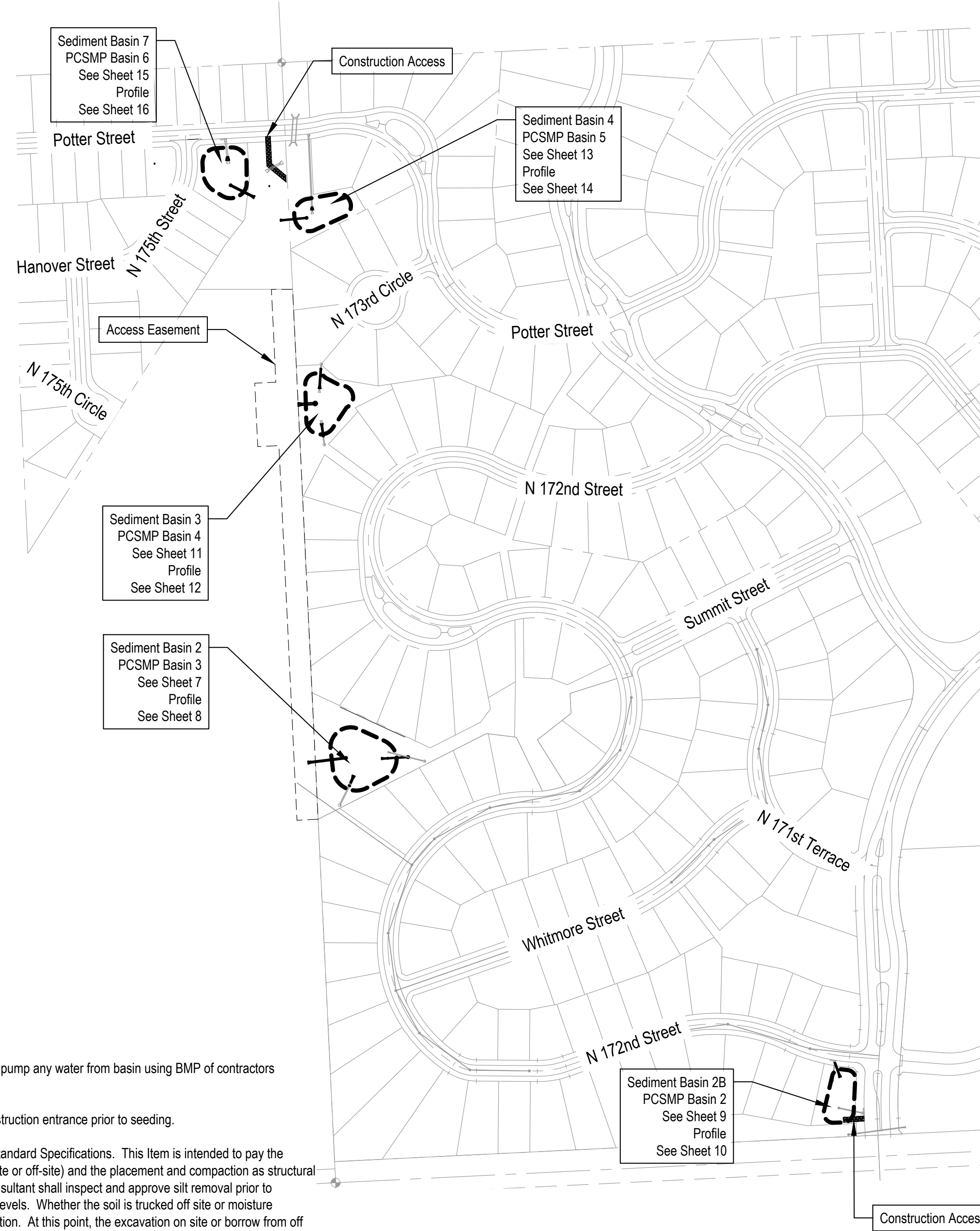
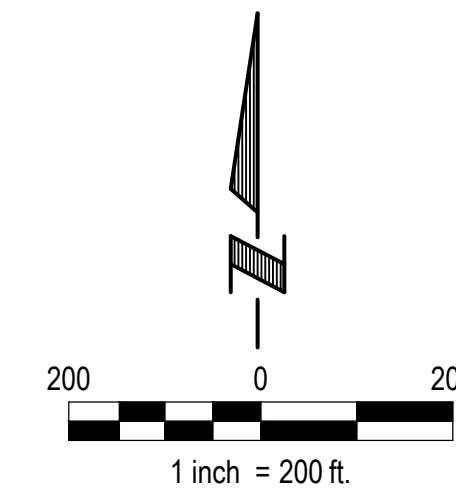
SEDIMENT BASINS 2, 2B, 3, 4, & 7 CONVERSION
 Located in the SW 1/4 & SE 1/4 of Section 28, Township 16N, Range 11E, of the 6th P.M.
 SID NO. 567
 OMAHA, NEBRASKA



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2	NOTES
3	DETAILS
4	TOPOGRAPHIC SURVEY - SEDIMENT BASIN 2
5	TOPOGRAPHIC SURVEY - SEDIMENT BASIN 2B AND 3
6	TOPOGRAPHIC SURVEY - SEDIMENT BASIN 4 AND 7
7	SEDIMENT BASIN 2 - PLAN
8	SEDIMENT BASIN 2 - PROFILE
9	SEDIMENT BASIN 2B - PLAN
10	SEDIMENT BASIN 2B - PROFILE
11	SEDIMENT BASIN 3 - PLAN
12	SEDIMENT BASIN 3 - PROFILE
13	SEDIMENT BASIN 4 - PLAN
14	SEDIMENT BASIN 4 - PROFILE
15	SEDIMENT BASIN 7 - PLAN
16	SEDIMENT BASIN 7 - PROFILE



PROJECT INFORMATION

OMA-20150127-2710-P OMA-20140825-2710-GP1 567 11/01/2024 12/31/2024
Project Number Assigned by PWD Grading Permit Project Number Assigned by PWD SID Number Estimated Start Date Estimated Completion Date

Sediment Basin 2, 2B, 3, 4, & 7 Conversion **Anchor Pointe**
Project Name Subdivision Name

N 172nd Street & Potter Street **Omaha** **NE** **68007**
Address City State Zip Code

X **X** **X**
City Council Resolution Number Granting Project Approval City Council Ordinance Number Granting Project Approval City Council Resolution/Ordinance Approval Date

PROJECT DESCRIPTION

Conversion of temporary silt basins 2, 2B, 3, 4, & 7 to permanent dry detention basins.

APPLICANT
 SID 567
 Dave Vogtman
 11440 W. Center Road
 Omaha, NE 68144
 P: 402.334.0700
 F: 402.334.0815
 Dave.Vogtman@hubballe Realty

DESIGNER
 E & A Consulting Group, Inc
 Teresa Wooten
 10909 Mill Valley Road, Suite 100
 Omaha, NE 68154
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 F: 402.895.3599
 twooten@eaag.com

INSPECTOR
 E & A Consulting Group, Inc
 Randall L. Pierce, P.E.
 10909 Mill Valley Road, Suite 100
 Omaha, NE 68154
 P: 402.895.4700
 F: 402.895.3599
 rpierce@eaag.com

CONTRACTOR

Note to Bidders:

Basins to be removed or converted and graded as shown. All silt is to be removed from basin before grading can be started. Contractor to pump any water from basin using BMP of contractors selection. Contractor to remove trees and rip rap as needed. Removals shall be considered subsidiary to removing basin.

Item 5 - Install Construction Entrance. This item is intended to pay the Contractor for the installation, maintenance and removal of the construction entrance prior to seeding.

Item 6 - Excavate, Dry & Recompact Silt. The Excavation of silt and placement as backfill shall be per Section 201 of the City of Omaha Standard Specifications. This Item is intended to pay the Contractor for dewatering and silt removal accumulated in the bottom of the existing basin, the moisture conditioning of the silt (either on-site or off-site) and the placement and compaction as structural fill to the pre-construction elevations. The Contractor shall remove silt to virgin ground (see Basin Removal Detail). A Geotechnical subconsultant shall inspect and approve silt removal prior to placement of any fill. Silt removal may be trucked off site or at the discretion of the contractor, dried to within acceptable moisture content levels. Whether the soil is trucked off site or moisture conditioned on site, additional embankment shall be supplied to bring the elevation back to the original elevation of the silt prior to construction. At this point, the excavation on site or borrow from off site can commence. The cost of bringing additional soil to the site to bring the elevations back to original (pre-construction) grade shall be subsidiary to excavate, dry & recompact silt. The Engineers estimate of silt is **3,455 CY**. This quantity will be considered an established quantity and will only be changed by a written change order.

Item 7 - Excavation (on-site) - Established Quantity. This item is intended to pay the contractor for materials necessary to excavate, transport, place and compact material located on site. The unit cost bid shall include the cost of excavation, loading for transport, transport, unloading, placement and compaction to fill. Compaction requirement is 95% Standard (ASTM D-698) with moisture limits of - 3% to + 4% optimum. The Engineers estimate **4,876 CY** (adjusted - See details below). A topographic survey will be done before construction begins. This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

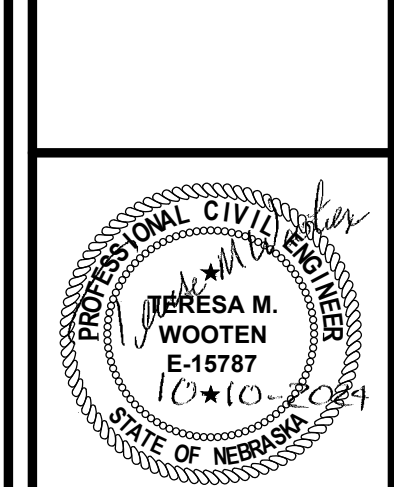
Item 8 - Excavation (Haul-Off) - Established Quantity. This item is intended to pay the contractor for materials necessary to excavate, transport, place material located off site. This item is also intended to pay the contractor for material required to be hauled off to complete the project to the grade shown on the plan. The unit cost bid shall include the cost of excavation, loading for transport, transport, unloading, placement. The Engineers estimate **2,673 CY** (adjusted - See details below). A topographic survey will be done before construction begins. This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

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 10909 Mill Valley Road, Suite 100 • Omaha, NE 68154
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 State of NE Certificate of Authorization #CA0008



ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 SID 567
 OMAHA, NEBRASKA

COVER



PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Revisions	Description	Date
1	AS SHOWN	JUN 16

Proj No: P2015.036.017
 Date: 10/10/2024
 Designed By: JUN
 Drawn By: AS SHOWN
 Scale: 1 of 16
 Sheet: 1 of 16
 Jeremy Nichols 10/11/2024 1:29 PM K:\Projects\2015\36\17\Engineering\asf\pcwp\PCSMP\ASIN\016.dwg

GENERAL NOTES

- All project procedures, materials, bonds and reserves shall conform to the City of Omaha's Standard Specifications for Public Works Construction, 2024 Edition ("Standard Specifications"). It is the responsibility of the CONTRACTOR to be aware of the contents of the Standard Specifications. The Standard Specifications can be found at: <https://publicworks.cityofomaha.org/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications>
- References to "Standard Plates" refers to the City of Omaha's 2024 Standard Plate list. These Standard Plates can be found at: <https://publicworks.cityofomaha.org/2024-standard-plate-list>

The CONTRACTOR is referred to the following Standard Plates for use on this project:

PLATE NO.	DESCRIPTION	REVISION DATE
101-03 (1-2)	Inlet Protection	02/13/2024
101-04	Construction Entrance	02/13/2024
503-01	Sidewalk Construction	02/13/2024
503-02	Sidewalk Location	02/13/2024
700-01	Concrete Collar	02/13/2024
700-04	Reinforced Concrete Pipe Couplers	02/13/2024
701-01-1	Sewer Bedding	02/13/2024
701-01-2	Sewer Bedding	02/13/2024
701-01-3	Sewer Bedding	02/13/2024
702-08-1	Area Inlets	02/13/2024
702-12-1	Flared End Section and Bar Grates (No Bar Grates Required)	02/13/2024
702-12-2	Flared End Section and Bar Grates (No Bar Grates Required)	02/13/2024
- Barricades shall conform to the Omaha Public Works "Barricading Standards, Specifications, Methods and Materials", and/or the "Manual on Uniform Traffic Control Devices", and any additions thereto. The aforementioned publications can be found at <https://publicworks.cityofomaha.org/images/PDF/Barricading-Standards-Specs-Methods-and-Materials.pdf> and https://mutcd.fhwa.dot.gov/pdfs/11th_Edition/mutcd11thedition.pdf
- The time limit to complete the work is listed on the Proposal in the Specifications.
- The INSPECTOR shall ensure the CONTRACTOR adheres to and meets all construction specifications and plans; maintenance, safety, workmanship, and testing requirements; and applicable regulatory compliance issues.
- Approval shall be obtained from the City of Omaha Public Works Department for all applicable public improvements prior to the commencement of construction. The CONTRACTOR shall check with the INSPECTOR for City of Omaha Public Works Department approval of the project before starting work.
- The CONTRACTOR and INSPECTOR shall ensure all impacted government agencies (City of Omaha, Douglas County, State of Nebraska, Corps of Engineers, Papio-Missouri River Natural Resource District, United States Federal Government, etc.) have granted all applicable permission to proceed with construction prior to mobilization. Furthermore, 48 hours prior to the commencement of construction, the INSPECTOR shall notify all concerned parties that work will be proceeding within each impacted government agency jurisdictional boundary.
- Construction found to be unacceptable to the City of Omaha Public Works Department shall be removed and replaced at the CONTRACTOR's expense.
- The INSPECTOR shall notify the following City of Omaha Public Works Department personnel 48 hours prior to all preconstruction meetings and 48 hours prior to the start of any construction: Matt Grosse (Phone: 402-444-5282; email: matthew.grosse@cityofomaha.org) and Traffic Maintenance (Phone: 402-444-5160).
- The INSPECTOR shall submit weekly progress reports to the following City of Omaha Public Works Department employee no later than the following week ending date: Matt Grosse (Phone: 402-444-5282; email: matthew.grosse@cityofomaha.org).
- The INSPECTOR shall notify the following City of Omaha Public Works Department personnel 48 hours prior to lane closures and 24 hours prior to lane restrictions: Matt Grosse (Phone: 402-444-5282; email: matthew.grosse@cityofomaha.org) and Traffic Maintenance (Phone: 402-444-5160).
- All operations conducted on the premises, including the warming-up, repair, arrival, departure, or running of trucks, earthmoving equipment, construction equipment, and any other associated equipment shall be limited to the period between 7:00 A.M. and 6:00 P.M. Monday thru Friday; and, no earthmoving or grading operations shall be conducted on the premises on Saturdays or Sundays or legal holidays, unless waived by the INSPECTOR and the City of Omaha Public Works Department.
- The CONTRACTOR shall notify all impacted utility companies via One Call (dial 811 or 800-331-5666) 48 hours before work is started to verify utility locations.
- The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the CONTRACTOR. Existing utility service laterals may not be shown on the plans. The CONTRACTOR shall locate all underground and overhead interference's which may affect his operation during construction and shall take all necessary precautions to avoid damage to same.
- The CONTRACTOR shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the CONTRACTOR'S operations shall be repaired or replaced satisfactory to the INSPECTOR and owning utility company at the expense of the CONTRACTOR.
- All construction shall be as shown on these plans. Any revisions shall have the prior written approval of the DESIGNER and City of Omaha Public Works Department.
- Construction may require the disturbance of existing drainage and erosion control measures. The CONTRACTOR shall make himself aware of the existing drainage and erosion control measures prior to bidding this work. A copy of the Grading and Erosion Control Plan OMA-20140825-2710-GP1 is available for review at the office of the DESIGNER and INSPECTOR. The function of these items must be maintained throughout construction with emphasis placed on restoring their integrity prior to any rainfall event. Erosion control improvements have been constructed on this site, including terraces, silt fencing, and temporary sediment basins. The CONTRACTOR shall be responsible for prompt reconstruction of any erosion control improvements disturbed by his operations. All disturbed erosion control improvements shall be fully reconstructed at the end of each working day prior to leaving the site.
- Elevations are referenced to U.S.G.S. Datum.

GENERAL NOTES

- CONTRACTOR shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
- The CONTRACTOR must adhere to good housekeeping best management practices at all times. Good housekeeping best management practices focus on keeping the work site clean and orderly while handling materials and waste in a manner that eliminates the potential for pollutant runoff.
- The construction documents (e.g., Contract, Bond, Insurance, Specifications, and Plans) are essential and a requirement in one part is as binding as though occurring in all. Thus, the construction documents are complementary in nature. The documents describe and provide the complete construction project. The CONTRACTOR may not take advantage of any apparent construction project errors or omissions. The CONTRACTOR shall notify the INSPECTOR promptly of any omissions or errors. In the case of a discrepancy between parts of the construction documents, the most stringent construction methodology shall rule.
- The CONTRACTOR shall be responsible for coordinating their work with the Engineer in requesting line stakes and grades. The Owner will not be responsible for delays due to lack of grades or line stakes.
- The CONTRACTOR shall be charged for replacing construction stakes and lot pins which are destroyed by his operations.
- The CONTRACTOR is hereby referred to Subsection 100.03-E of the Standard Specifications relative to cleaning of the work area. The final estimate will not be processed until the Contractor has satisfactorily cleaned and flushed the pavement slab of all rubbish, excess material, mud and debris, and all parts of the work area have been left in a neat and presentable manner. All disturbed right-of-way areas shall be restored to a level and smooth section prior to acceptance of the work.
- The CONTRACTOR shall place silt fence as shown and as directed by the Engineer to prevent sediment from leaving the construction site.

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Comparison Basin 3	1.000	1.350	19212.78 Sq. Ft.	1219.12 Cu. Yd.	148.79 Cu. Yd.	1070.33 Cu. Yd.<Cut>
Comparison Basin 7	1.000	1.350	22530.26 Sq. Ft.	810.22 Cu. Yd.	463.94 Cu. Yd.	346.28 Cu. Yd.<Cut>
Comparison Basin 2	1.000	1.350	32159.96 Sq. Ft.	1411.05 Cu. Yd.	503.31 Cu. Yd.	907.74 Cu. Yd.<Cut>
Comparison Basin 2B	1.000	1.350	19171.59 Sq. Ft.	352.54 Cu. Yd.	532.73 Cu. Yd.	180.19 Cu. Yd.<Fill>
Comparison Access Road CMP Removal	1.000	1.350	6704.81 Sq. Ft.	629.50 Cu. Yd.	0.00 Cu. Yd.	629.50 Cu. Yd.<Cut>
Comparison Basin 4	1.000	1.350	18970.55 Sq. Ft.	454.04 Cu. Yd.	554.20 Cu. Yd.	100.16 Cu. Yd.<Fill>
Totals			118749.94 Sq. Ft.	4876.46 Cu. Yd.	2202.97 Cu. Yd.	2673.49 Cu. Yd.<Cut>

GRADING AND SWPPP GENERAL NOTES

- All project procedures, materials, bonds and reserves shall conform to the City of Omaha Specifications for Public Works Construction 2020, and any additions thereto. It will be the responsibility of the Contractor to be aware of the contents of the aforementioned specifications. The aforementioned publication can be found at: <http://www.cityofomaha.org/pw/index.php/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications>
- Barricades shall conform to Omaha Public Works "Barricading Standards, Specifications, Methods Materials", and/or the "Manual on Uniform Traffic Control Devices", and any additions thereto, whichever is more stringent. The aforementioned publications can be found at <https://publicworks.cityofomaha.org/images/PDF/Barricading-Standards-Specs-Methods-and-Materials.pdf> and https://mutcd.fhwa.dot.gov/pdfs/11th_Edition/mutcd11thedition.pdf
- Utilities are shown as a convenience for the Contractor. The locations of all aerial and underground utilities may or may not be indicated in these plans. The Contractor shall notify all utility companies before work is started to verify utility locations. No excavation will be permitted in the area until all utilities have been located and identified to the satisfaction of all parties and then, only with extreme care to avoid any possibility of damage. The Contractor will be responsible for repair of utilities damaged during construction.
- The Contractor shall maintain positive drainage in existing road ditches and culverts draining into the project area.
- Topsoil shall be stripped to a depth of at least 4" and stockpiled on site for redistribution in future unpaved areas upon completion of grading. The location of the stripping stockpiles are at the discretion of the Contractor; however, stockpiles must be located within an area protected by stormwater pollution prevention measures.
- Payment for earthwork shall be based upon the bid item "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)". This quantity is the fixed plan cut volume determined by a comparison of the proposed grade surface to the existing grade surface. There will be no deviation from this pay quantity without a written change order resulting from a plan revision or field change. Work shall include excavation, haul, placing and compacting earthwork necessary for a completed project for this fixed established quantity.
- Fill placed on a slope steeper than a 5H:1V shall be benched before placing fill, with a maximum riser height on the order of 2', separated by horizontal steps that are wide enough to accommodate compaction equipment.
- All fill and backfill shall be placed in lifts of 9" or less in loose thickness. All fill shall be compacted to a minimum 95% of the maximum dry density at a moisture content 3% below to 3% above optimum as determined by ASTM D698 (Standard Proctor) or as recommended by the Geotechnical Engineer.
- Fill and Backfill shall be inspected and tested periodically at the discretion of the Engineer for adherence to material, compaction, and moisture specifications.
 - Fill or backfill failing to meet compaction and moisture content specifications shall be reworked and retested at the Contractor's expense.
 - Material deemed unsuitable by the Engineer shall be removed and replaced.
 - Reimbursement for removal of unsuitable materials will be made at the contract unit price for, "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)".
- Fill and backfill material shall be impervious material (clay/silt) free of frost, snow, ice, concrete, brick, stone, refuse, cinder ashes, organic matter, or any other material deemed unsuitable by the Engineer.
- The Contractor shall monitor perimeter silt fencing and install additional silt fencing if necessary or as directed by the Engineer. Payment shall be made at the unit price for "Install Silt Fence".
- No tree removal shall occur between April 1 and July 15, unless a migratory bird inventory has been completed and no nesting of migratory birds is found. Tree removal between June 1 and July 31 shall further require a bat roosting inventory.
- Areas to receive erosion control matting shall be seeded in accordance with the City of Omaha Type A mix.
- The Contractor shall comply with all OSHA regulations.
- Where open excavations are not backfilled within 24 hours, the Contractor shall encircle the open area by a standard snow fence.
- All rubbish, unsuitable material, debris, equipment, etc., resulting from demolition work shall be disposed of properly and in a legal manner.
- The Contractor shall control dust during demolition and removals.
- All demolition, removals, clearing and grubbing shall be paid for in a lump sum at the bid price for "CLEARING AND GRUBBING - GENERAL".

STORM SEWER CONSTRUCTION NOTES

- The storm sewer system (pipe, manholes, inlets, special structures, etc.) shall be placed, compacted, and backfilled in accordance with the Standard Specifications.
- PCC manholes, inlets, appurtenances, and special structures meeting all City of Omaha Specifications for Public Works Construction shall be used for storm sewer construction.
- The CONTRACTOR shall ensure all storm sewer lines, manholes, and inlets are cleaned of debris (leaves, stone, dirt, construction material, etc.) prior to the APPLICANT taking ownership.
- PCC pipe meeting the Standard Specifications shall be used for storm sewer construction.
- The CONTRACTOR shall ensure all storm sewer pipe used for construction has been certified by the American Concrete Pipe Association (ACPA). All pipe must display the Q-CAST symbol to verify the manufacturer has met the ACPA's certification program. Visual inspections for defects shall continue to take place on the site.
- No storm sewer service connections to any private lot shall be permitted prior to final acceptance by the City of Omaha Construction Division, Matt Grosse (Phone: 402-444-5282; email: matthew.grosse@cityofomaha.org), which shall include approved rectification of all punch list items and the submittal of mylar as-built drawings.
- All inlet structures will be located in the field by the Engineer.
- Manholes shall be constructed in conformance with Standard Plate 702-11, including installation of external frame seals for all manholes within paving. Flat top manholes shall provide a minimum of 12" between the bottom of slab and the top of the manhole structure for compaction of paving subgrade.
- Additional crushed rock bedding for the sewers shall be placed at locations where unstable trench bottom conditions are encountered in accordance with Subsection 700.03-H of the Standard Specifications, as approved by the Engineer per Standard Plate 701-01. The cost of necessary crushed rock bedding will be paid at \$25.00 per ton installed.
- All storm sewer pipe shall be bedded with rock bedding in accordance with Standard Plate 701-01. Soil bedding is not acceptable. The cost of the crushed rock for pipe bedding shall be subsidiary to the cost of the pipe.
- Joints for storm sewer pipes are required to have a fabricated gasket or bitumastic sealant.
- Inlets deeper than 7.5' shall be reinforced as follows:
 - Concrete shall be SG8.0AE or L7.5 AE (28 day strength of 4000 psi.)
 - Provide #5 bars at openings (4 total, 1 at each edge of opening, with bars extending 12" beyond intersections of bars)
 - At all wall corners beginning 5'-0" below grade, provide (2'-6" x 2'-6") #4 Corner Bars @ 12" O.C.
 - See "Additional Curb Inlet Box Reinforcement - Inlets 7.5' and Deeper" detail.
- Pipe couplers conforming to Standard Plate 700-04 shall be installed at the three (3) joints upstream of flared end section outlets. Install three (3) couplers per joint.
- All rip-rap shall be underlain with geotechnical filter fabric (Mirafi 180N), or approved equal and is subsidiary of the rip-rap.
- All storm sewers are required to be video inspected.

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Engineering • Planning • Environmental & Field Services

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E & A CONSULTING GROUP, INC.
Engineering Answers

ANCHOR POINTE
SEDIMENT BASINS 2, 2B,
3, 4, & 7 CONVERSION
S/D 667
OMAHA, NEBRASKA

NOTES

PROFESSIONAL CIVIL ENGINEER
TERESA M. WOOTEN
E-15787
STATE OF NEBRASKA

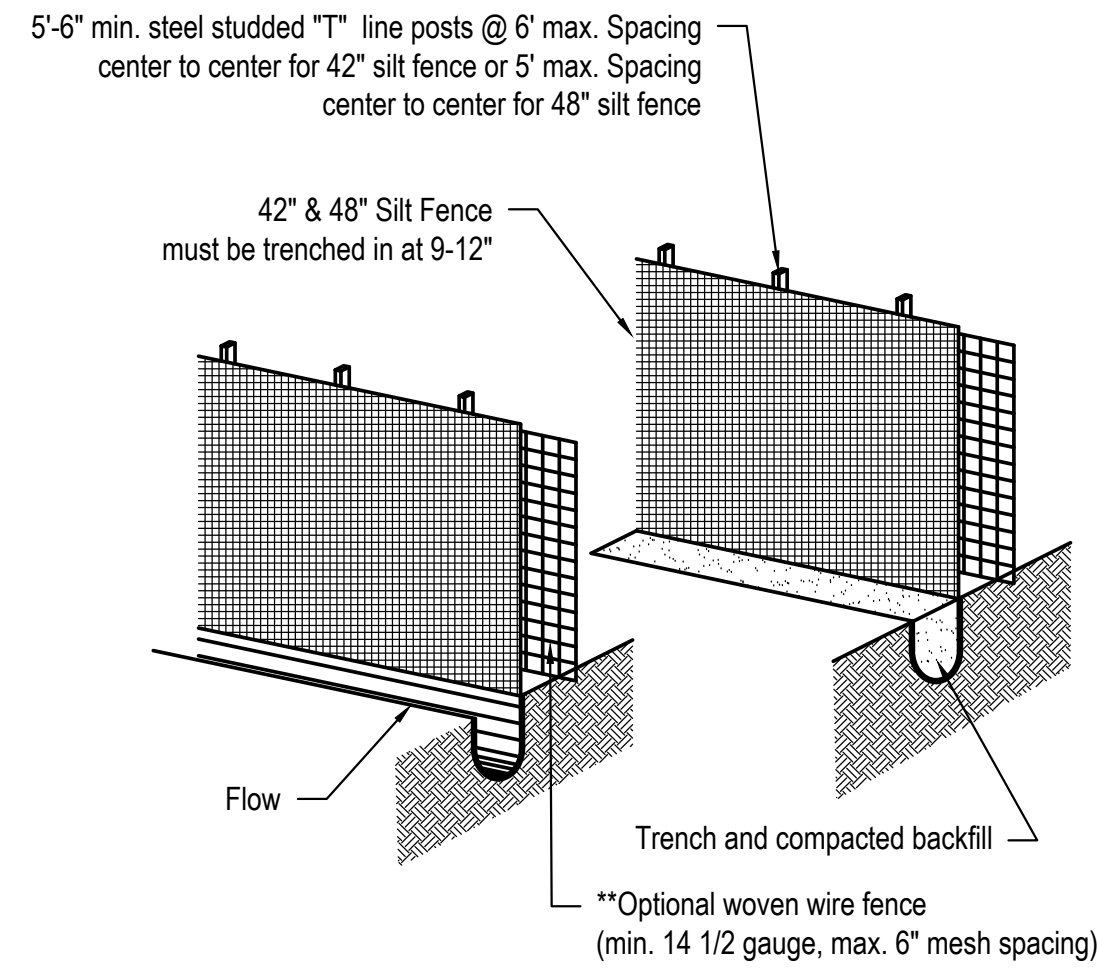
Proj No:	P2015.036.017
Date:	10/10/2024
Designed By:	JUN
Drawn By:	JUN
Scale:	AS SHOWN
Sheet:	2 of 16

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Nebraska 811
know what's below.
Call before you dig.

PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

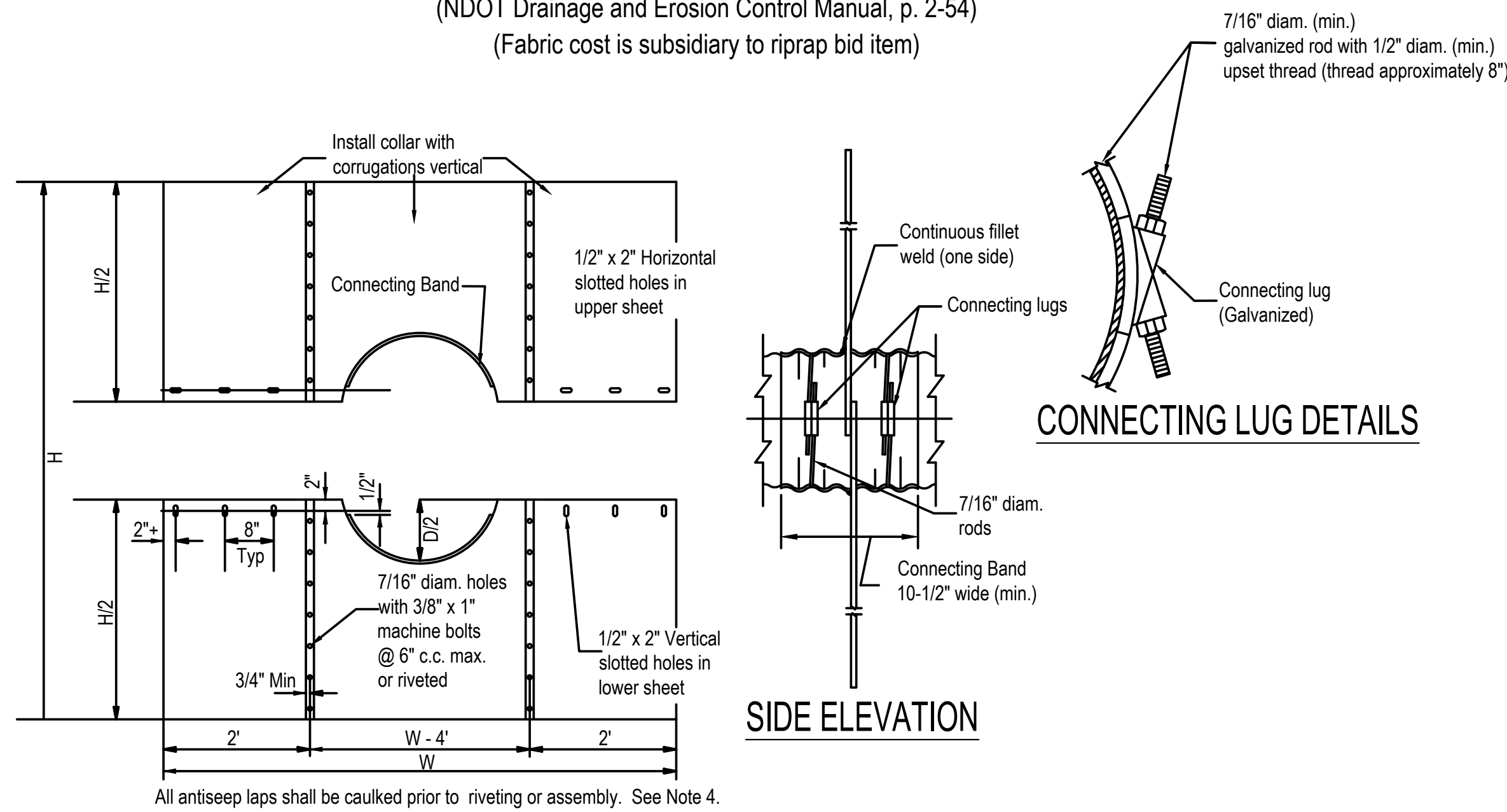
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Jeremy Nichols

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P2015.036.017	10/10/2024	JUN	JUN	AS SHOWN	3 of 16



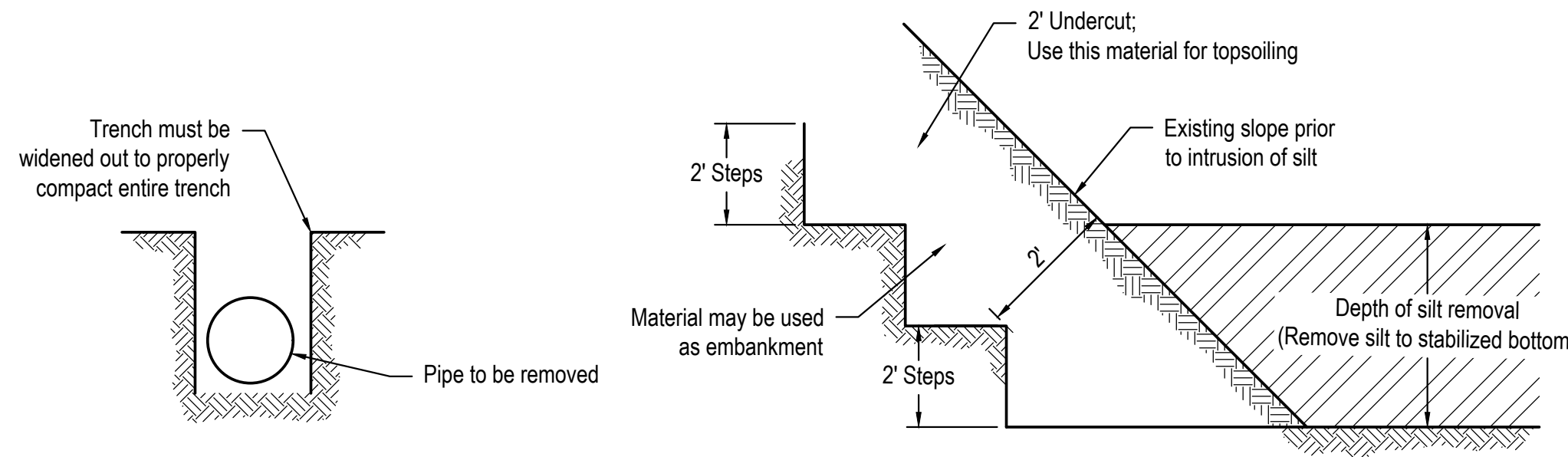
SILT FENCE
 NOT TO SCALE

PREFORMED SCOUR HOLE DETAIL
 NOT TO SCALE
 (NDOT Drainage and Erosion Control Manual, p. 2-54)
 (Fabric cost is subsidiary to riprap bid item)



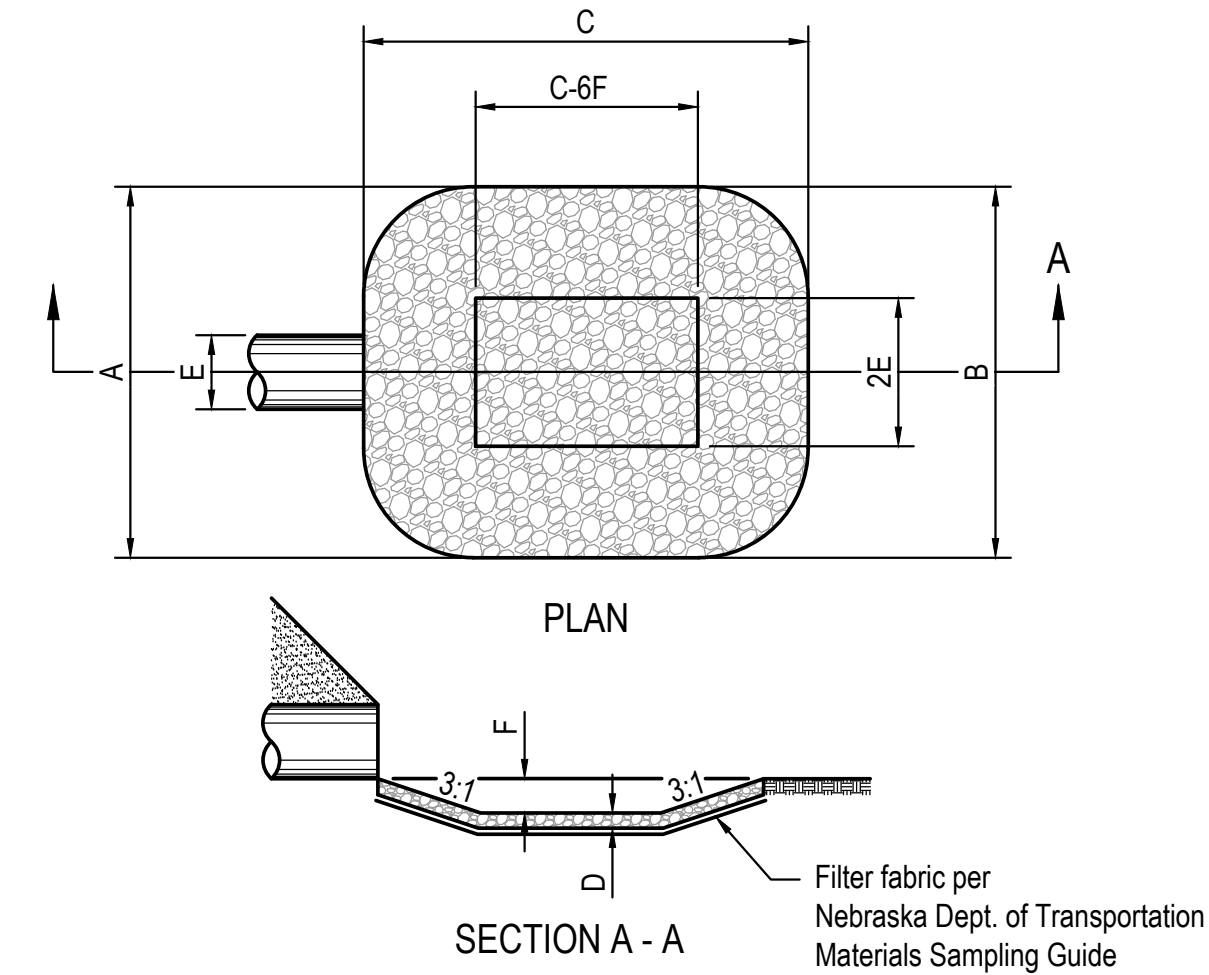
- Unassembled antiseep collars shall be marked by painting or tagging to identify matching pairs.
- For annular pipe, the connecting bands shall be fabricated from corrugated metal. A dimpled band or a band fabricated from smooth steel shall be used for helical pipe.
- Each antiseep collar shall be furnished with either two 7/16" diameter rods with standard connecting lugs or a two-piece dimpled coupling band with 2" x 2" x 3/16" angles and 1/2" x 4-1/2" carriage bolts. Use 3/8" x 1" machine bolts to connect the upper and lower halves of the anti-seep collar.
- For pipe diameters of 36" to 48", iron or steel collar thickness shall be 0.079" (14 Gage), or aluminum alloy shall be 0.075".
- The laps between all sections of the antiseep collar and between the pipe and connecting band shall be caulked with a heavy coat of fibrated mastic or a neoprene gasket. Use latex caulk for openings greater than 1/8 inch.

ANTI-SEEP COLLAR
 NOT TO SCALE

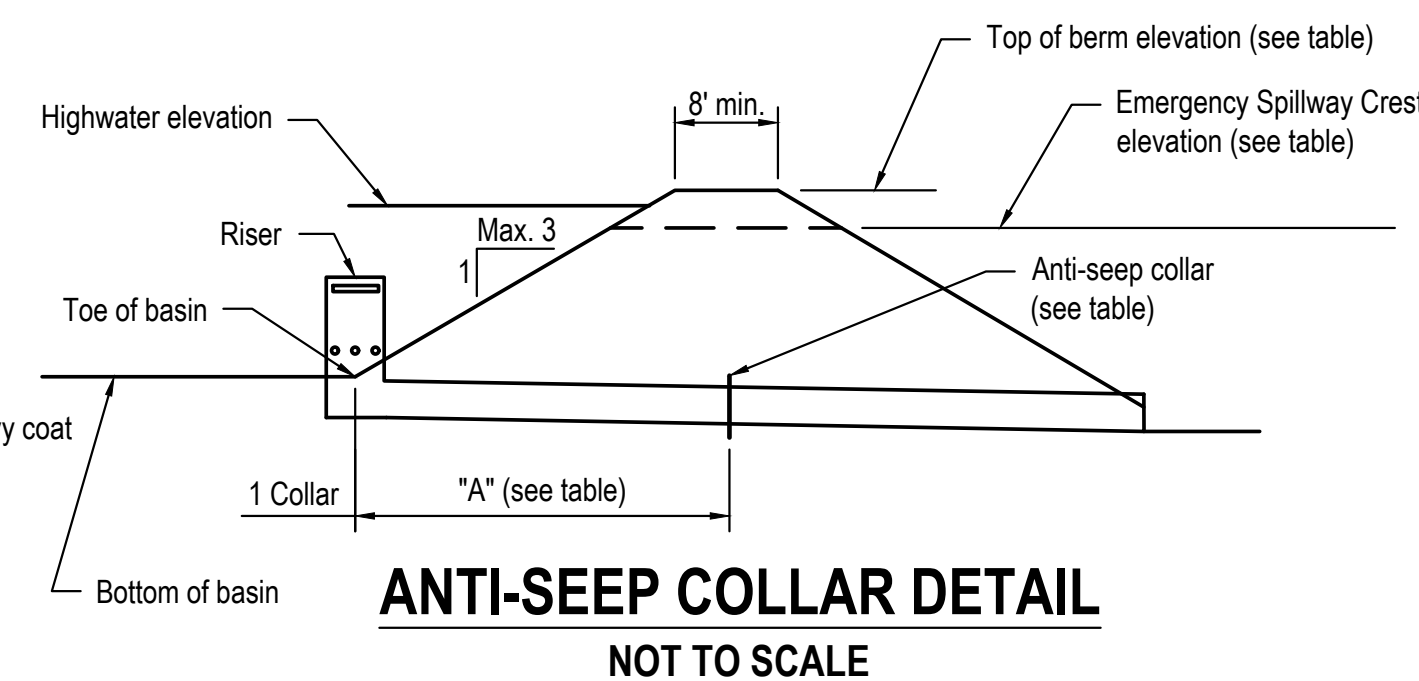


- NOTES:
- A preconstruction conference shall be held with contractor, engineer, and geotechnical engineer prior to basin removal construction starting.
 - Entire basin shall be cleaned of silt, riser pipe/outlet pipe and inlet pipe removed, and side walls cleaned. At this point, the inspection by the Geotechnical Engineer must take place before the sidewalls are benched with 2' vertical steps and embankment placed.
 - All embankment shall be free of debris and placed in lifts of 8". Density testing must be performed at 1' intervals throughout the entire basin closure process. Compaction requirements shall be 95% compaction (Standard Proctor), with moisture requirements of - 3% to +4% optimum.
 - Sheeps foot or pad foot compactor required. Vibratory compactors will be required if compactations are not met on regular basis.

BASIN REMOVAL DETAIL & NOTES
 NOT TO SCALE



SCOUR HOLE TABLE									
BASIN	A	B	C	D	E	F	RIP-RAP TYPE	PAY QUANTITY	FABRIC QUANTITY
SEDIMENT BASIN 2B (PCSMP 2) - IN	9'	9'	8'	1.9'	2.0'	0.8'	A	7	16
SEDIMENT BASIN 2 (PCSMP 3) - IN (EAST SIDE)	8'	8'	9'	1.9'	1.5'	0.9'	A	7	16
SEDIMENT BASIN 2 (PCSMP 3) - IN (SOUTH SIDE)	15'	15'	16'	1.9'	2.5'	1.6'	A	24	42
SEDIMENT BASIN 2 (PCSMP 3) - OUT	7'	7'	8'	1.9'	2.5'	0.4'	A	5	13
SEDIMENT BASIN 3 (PCSMP 4) - IN (NORTH SIDE)	6'	6'	6'	1.9'	2.0'	0.4'	A	4	10
SEDIMENT BASIN 3 (PCSMP 4) - IN (SOUTH SIDE)	6'	6'	6'	1.9'	2.0'	0.4'	A	4	10
SEDIMENT BASIN 3 (PCSMP 4) - OUT	9'	9'	11'	1.9'	3.5'	0.4'	A	10	20
SEDIMENT BASIN 4 (PCSMP 5) - IN	8'	8'	8'	1.9'	2.5'	0.4'	A	6	13
SEDIMENT BASIN 4 (PCSMP 5) - OUT	5'	5'	5'	1.9'	1.5'	0.4'	A	2	7
SEDIMENT BASIN 7 (PCSMP 6) - IN	9'	9'	11'	1.9'	3.5'	0.4'	A	10	20
SEDIMENT BASIN 7 (PCSMP 6) - OUT	8'	8'	8'	1.9'	2.5'	0.5'	A	6	14



ANTI-SEEP COLLAR DATA TABLE		
Basin No.	1 Collar Size (ft by ft)	"A" (ft)
Sediment 2 (PCSMP 3)	7.9	30'
Sediment 3 (PCSMP 4)	7.9	18'
Sediment 4 (PCSMP 5)	7.9	28'
Sediment 7 (PCSMP 6)	7.9	30'

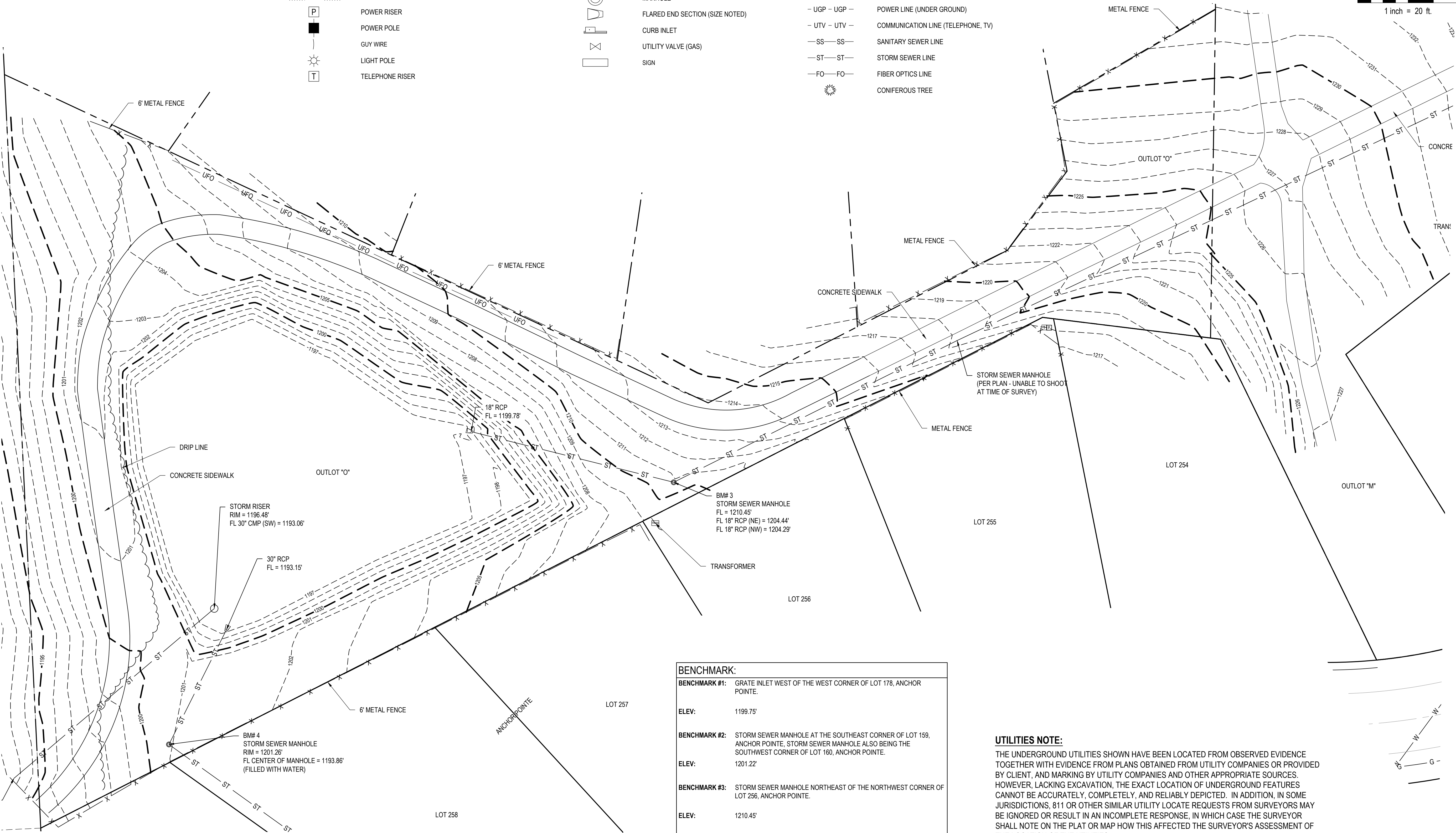
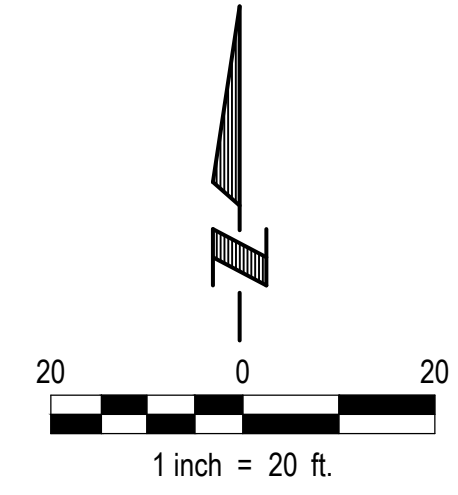
LEGEND

NOTE: FOR REFERENCE ONLY, ITEMS DEPICTED IN LEGEND MAY NOT APPEAR ON PLANS.

- SECTION CORNER
- PROPERTY CORNER FOUND (AS NOTED)
- PROPERTY CORNER SET (5/8" REBAR)
- BUILDING
- POWER RISER
- POWER POLE
- GUY WIRE
- LIGHT POLE
- TELEPHONE RISER

- CABLE TV RISER
- FIRE HYDRANT
- UTILITY VALVE (WATER)
- MANHOLE
- FLARED END SECTION (SIZE NOTED)
- CURB INLET
- UTILITY VALVE (GAS)
- SIGN

- FENCE LINE
- GAS LINE
- WATER LINE
- POWER LINE (OVERHEAD)
- POWER LINE (UNDER GROUND)
- COMMUNICATION LINE (TELEPHONE, TV)
- SANITARY SEWER LINE
- STORM SEWER LINE
- FIBER OPTICS LINE
- CONIFEROUS TREE



SEDIMENT BASIN 2
PCSMP BASIN 3

BENCHMARK:	
BENCHMARK #1:	GRATE INLET WEST OF THE WEST CORNER OF LOT 178, ANCHOR POINT.
ELEV:	1199.75'
BENCHMARK #2:	STORM SEWER MANHOLE AT THE SOUTHEAST CORNER OF LOT 159, ANCHOR POINT, STORM SEWER MANHOLE ALSO BEING THE SOUTHWEST CORNER OF LOT 160, ANCHOR POINT.
ELEV:	1201.22'
BENCHMARK #3:	STORM SEWER MANHOLE NORTHEAST OF THE NORTHWEST CORNER OF LOT 256, ANCHOR POINT.
ELEV:	1210.45'
BENCHMARK #4:	STORM SEWER MANHOLE NORTH OF THE NORTHWEST CORNER OF LOT 258, ANCHOR POINT, STORM SEWER MANHOLE ALSO BEING NORTH OF THE NORTHEAST CORNER OF LOT 259, ANCHOR POINT.
ELEV:	1201.26'

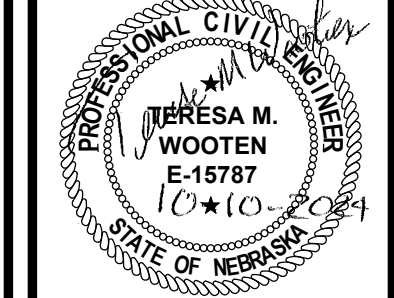
UTILITIES NOTE:
 THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKING BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES.

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 Phone: 402.895.3700 • Fax: 402.895.3599
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E & A CONSULTING GROUP, INC.
 Engineering Answers

ANCHOR POINT
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S.D. 657
 OMAHA, NEBRASKA

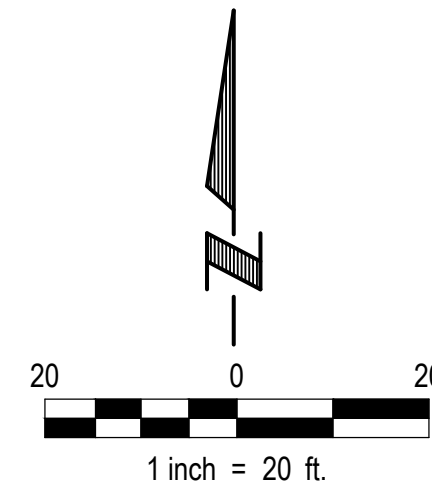
TOPOGRAPHIC SURVEY -
 SEDIMENT BASIN 2



Proj No:	Revisions
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Date:	Date
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PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

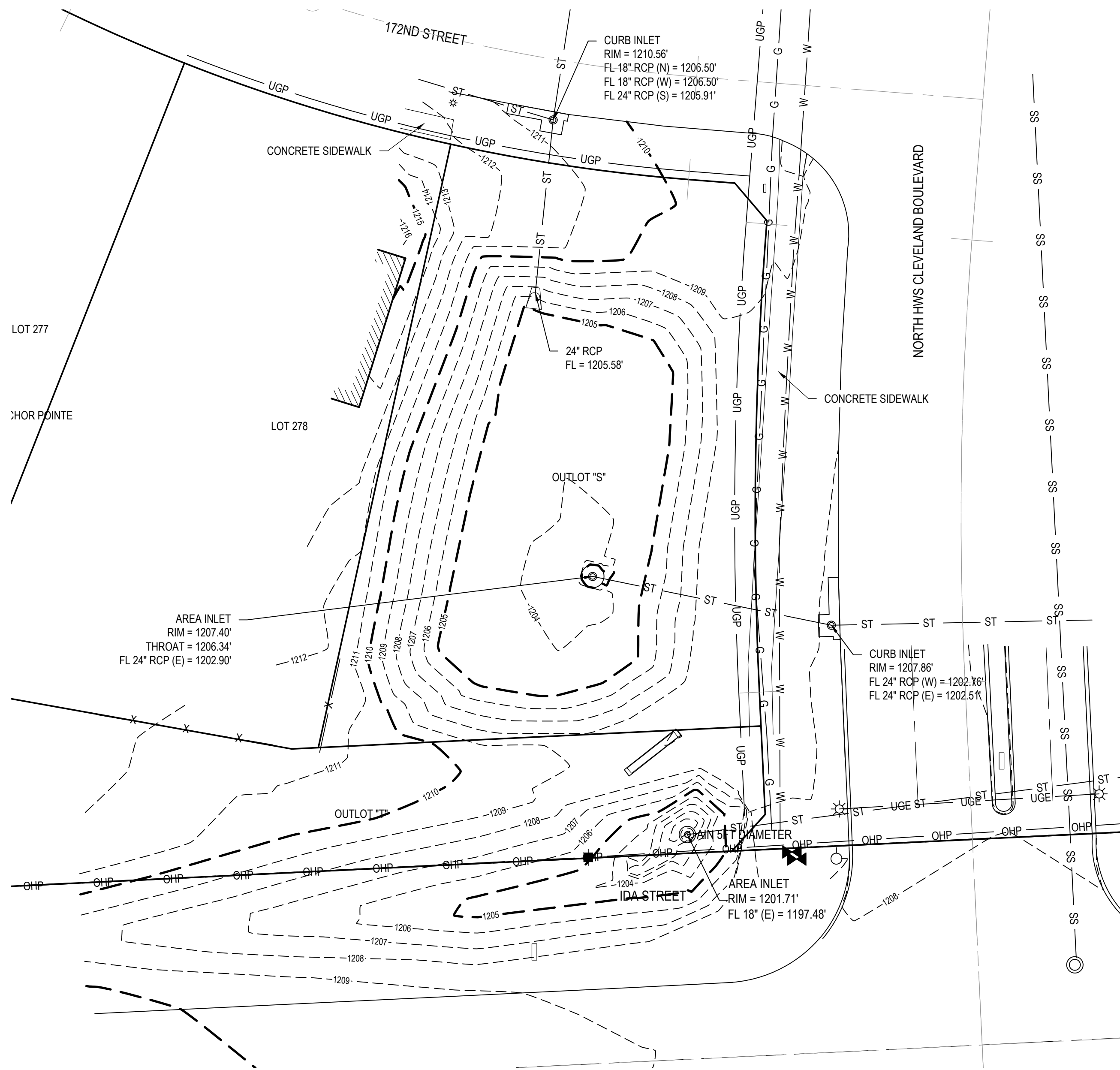
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 Jeremy Nichols



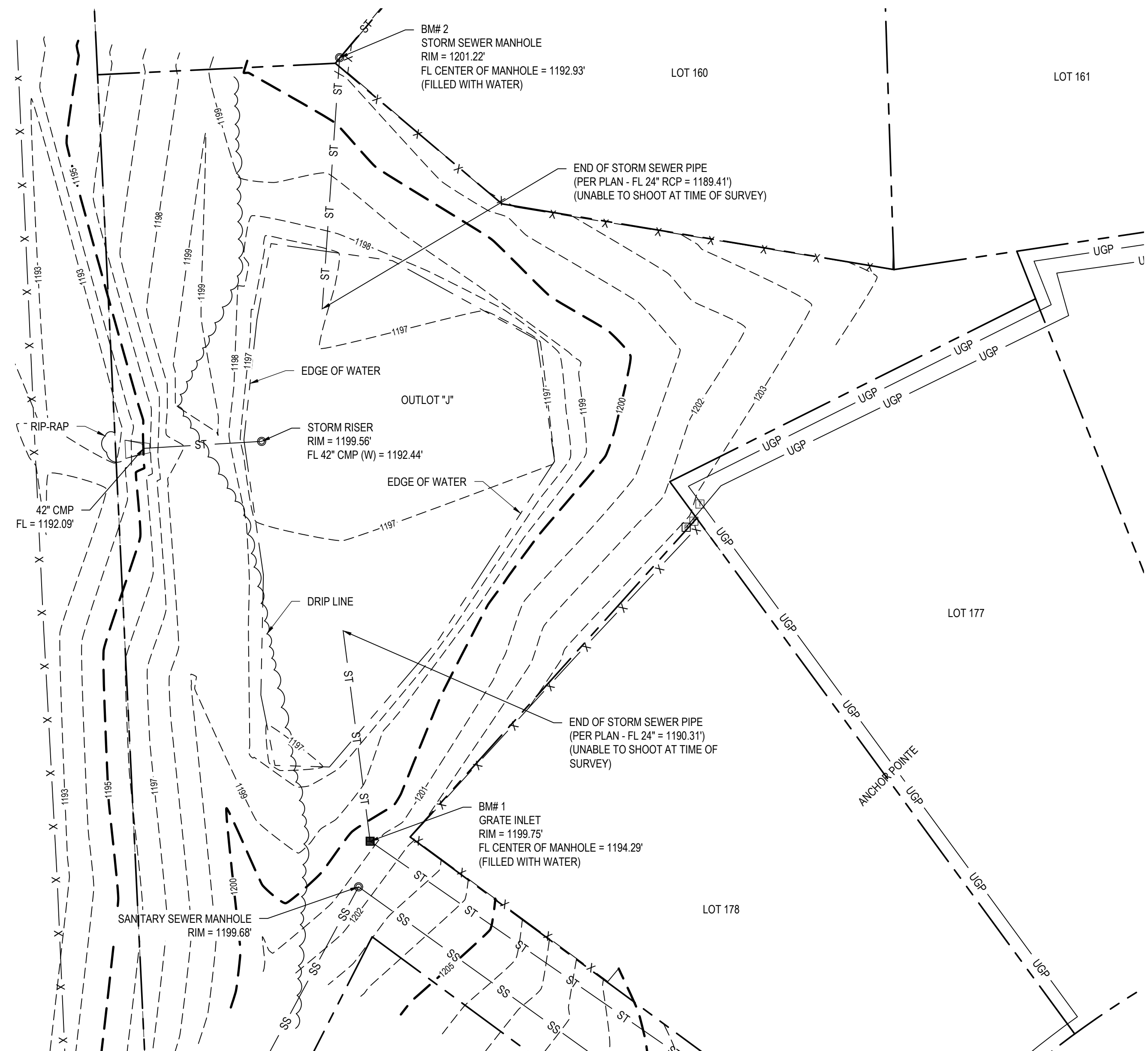
LEGEND

NOTE: FOR REFERENCE ONLY, ITEMS DEPICTED IN LEGEND MAY NOT APPEAR ON PLANS.

- | | | | |
|--|----------------------------------|--|------------------------------------|
| | SECTION CORNER | | FLARED END SECTION (SIZE NOTED) |
| | PROPERTY CORNER FOUND (AS NOTED) | | CURB INLET |
| | PROPERTY CORNER SET (5/8" REBAR) | | UTILITY VALVE (GAS) |
| | BUILDING | | SIGN |
| | POWER RISER | | FENCE LINE |
| | POWER POLE | | GAS LINE |
| | GUY WIRE | | WATER LINE |
| | LIGHT POLE | | POWER LINE (OVERHEAD) |
| | TELEPHONE RISER | | POWER LINE (UNDER GROUND) |
| | CABLE TV RISER | | COMMUNICATION LINE (TELEPHONE, TV) |
| | FIRE HYDRANT | | SANITARY SEWER LINE |
| | UTILITY VALVE (WATER) | | STORM SEWER LINE |
| | MANHOLE | | FIBER OPTICS LINE |
| | | | CONIFEROUS TREE |



**SEDIMENT BASIN 2B
 PCSMP BASIN 2**



BENCHMARK:

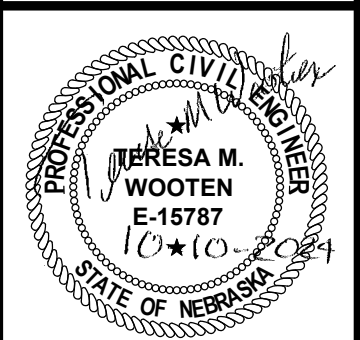
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ELEV:	1199.75'
BENCHMARK #2:	STORM SEWER MANHOLE AT THE SOUTHEAST CORNER OF LOT 159, ANCHOR POINTE, STORM SEWER MANHOLE ALSO BEING THE SOUTHWEST CORNER OF LOT 160, ANCHOR POINTE.
ELEV:	1201.22'
BENCHMARK #3:	STORM SEWER MANHOLE NORTHEAST OF THE NORTHWEST CORNER OF LOT 256, ANCHOR POINTE.
ELEV:	1210.45'
BENCHMARK #4:	STORM SEWER MANHOLE NORTH OF THE NORTHWEST CORNER OF LOT 258, ANCHOR POINTE, STORM SEWER MANHOLE ALSO BEING NORTH OF THE NORTHEAST CORNER OF LOT 259, ANCHOR POINTE.
ELEV:	1201.26'

UTILITIES NOTE:
 THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKING BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES.

**SEDIMENT BASIN 3
 PCSMP BASIN 4**

PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Proj No:	Date:	Designed By:	Drawn By:	Scale:	Sheet:
P2015.336.017	10/10/2024	JUN	JUN	AS SHOWN	5 of 16

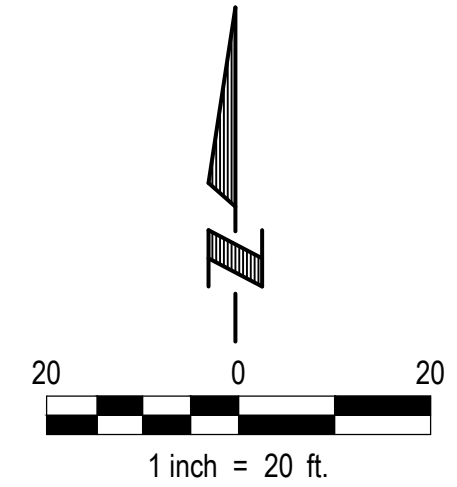
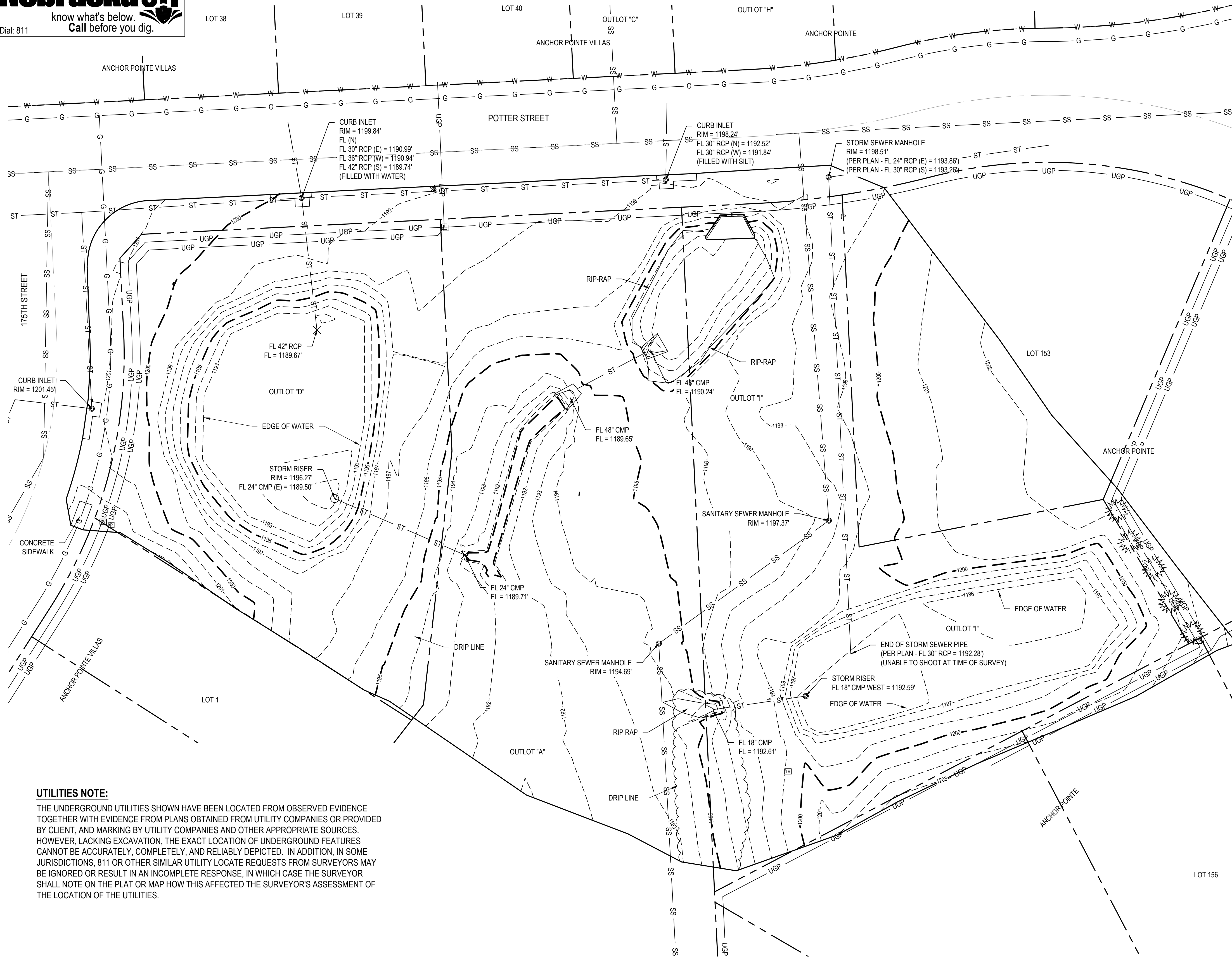


TOPOGRAPHIC SURVEY -
 SEDIMENT BASIN 2B AND
 3

ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S/D: 6/87
 OMAHA, NEBRASKA



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LEGEND

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- SECTION CORNER
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- POWER POLE
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- TELEPHONE RISER
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UTILITIES NOTE:

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BENCHMARK:

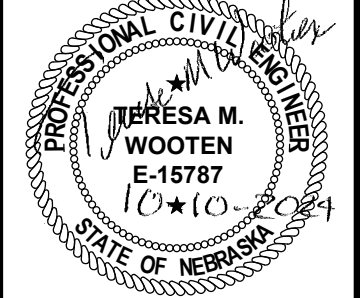
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ELEV:	1201.26'

SEDIMENT BASIN 7
PCSMP BASIN 6

SEDIMENT BASIN 4
PCSMP BASIN 5

PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Proj No:	Date:	Designed By:	Drawn By:	Scale:	Sheet:
P2015.336.017	10/10/2024	JUN	JUN	AS SHOWN	6 of 16



ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S.D. 667
 OMAHA, NEBRASKA

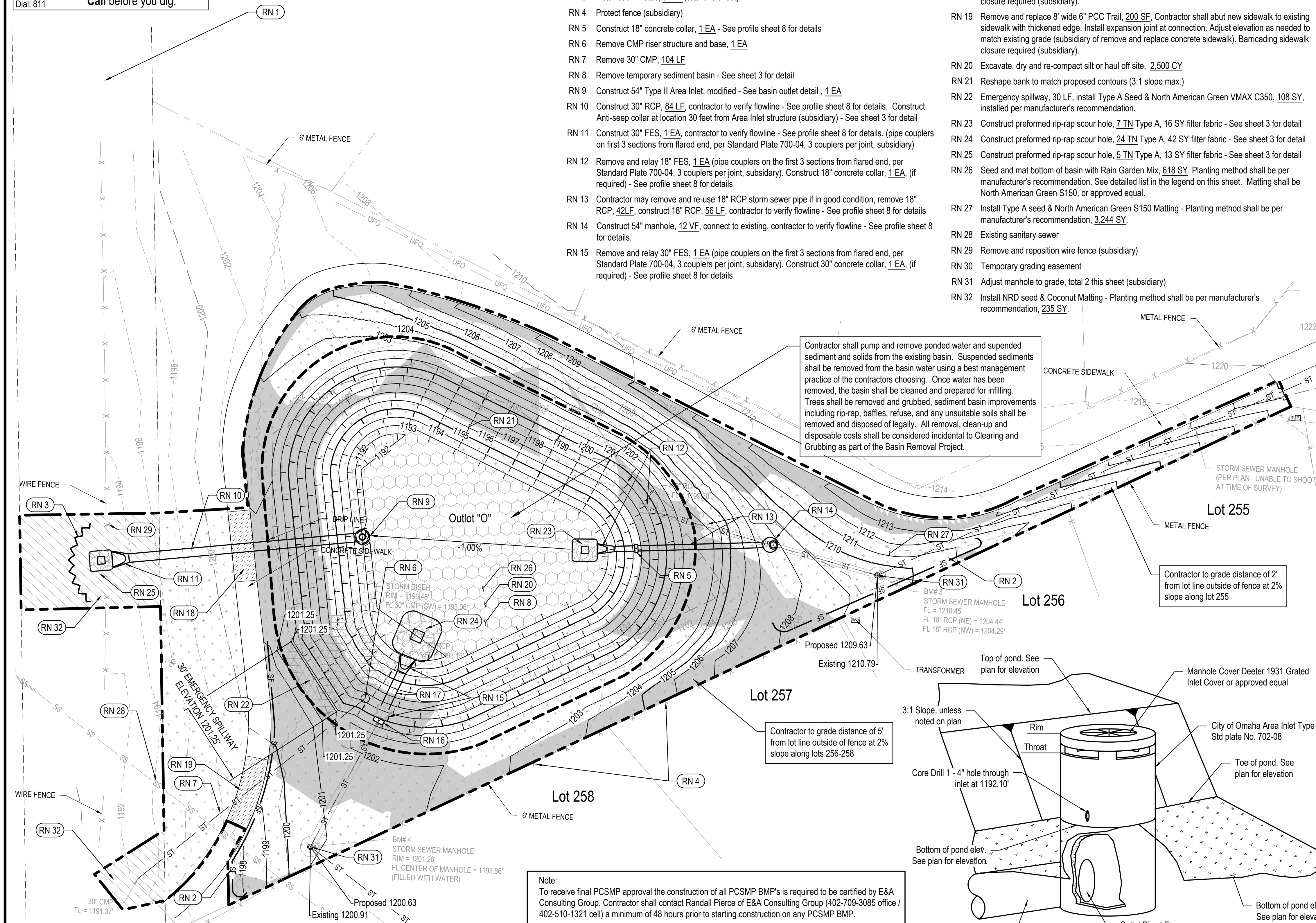


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(NO) REFERENCE NOTES

- RN 1 Access to Sediment Basin 2 site area from Sediment Basin 3 site area, silt fence to be modified for access (subsidiary to construction entrance)
- RN 2 Install silt fence (J-hooks every 100 ft) 185 LF, (total this sheet) - See sheet 3 for detail
- RN 3 Install straw wattle, 32 LF (total this sheet)
- RN 4 Protect fence (subsidiary)
- RN 5 Construct 18" concrete collar, 1 EA - See profile sheet 8 for details
- RN 6 Remove CMP riser structure and base, 1 EA
- RN 7 Remove 30" CMP, 104 LF
- RN 8 Remove temporary sediment basin - See sheet 3 for detail
- RN 9 Construct 54" Type II Area Inlet, modified - See basin outlet detail, 1 EA
- RN 10 Construct 30" RCP, 84 LF, contractor to verify flowline - See profile sheet 8 for details. Construct Anti-seep collar at location 30 feet from Area Inlet structure (subsidiary) - See sheet 3 for detail
- RN 11 Construct 30" FES, 1 EA, contractor to verify flowline - See profile sheet 8 for details. (pipe couplers on first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary)
- RN 12 Remove and relay 18" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 18" concrete collar, 1 EA, (if required) - See profile sheet 8 for details
- RN 13 Contractor may remove and re-use 18" RCP storm sewer pipe in good condition, remove 18" RCP, 42 LF, construct 18" RCP, 56 LF, contractor to verify flowline - See profile sheet 8 for details
- RN 14 Construct 54" manhole, 12 VF, connect to existing, contractor to verify flowline - See profile sheet 8 for details.
- RN 15 Remove and relay 30" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 30" concrete collar, 1 EA, (if required) - See profile sheet 8 for details

- RN 16 Construct 30" concrete collar, 1 EA - See profile sheet 8 for details
- RN 17 Construct 30" RCP, 20 LF, contractor to verify flowline - See profile sheet 8 for details
- RN 18 Remove and replace 8" wide 6" PCC Trail, 200 SF, Contractor shall abut new sidewalk to existing sidewalk with thickened edge. Install expansion joint at connection. Adjust elevation as needed to match existing grade (subsidiary of remove and replace concrete sidewalk). Barricading sidewalk closure required (subsidiary).
- RN 19 Remove and replace 8" wide 6" PCC Trail, 200 SF, Contractor shall abut new sidewalk to existing sidewalk with thickened edge. Install expansion joint at connection. Adjust elevation as needed to match existing grade (subsidiary of remove and replace concrete sidewalk). Barricading sidewalk closure required (subsidiary).
- RN 20 Excavate, dry and re-compact silt or haul off site, 2,500 CY
- RN 21 Reshape bank to match proposed contours (3:1 slope max.)
- RN 22 Emergency spillway, 30 LF, install Type A Seed & North American Green VMAX C350, 108 SY, installed per manufacturer's recommendation.
- RN 23 Construct preformed rip-rap scour hole, 7 TN Type A, 16 SY filter fabric - See sheet 3 for detail
- RN 24 Construct preformed rip-rap scour hole, 24 TN Type A, 42 SY filter fabric - See sheet 3 for detail
- RN 25 Construct preformed rip-rap scour hole, 5 TN Type A, 13 SY filter fabric - See sheet 3 for detail
- RN 26 Seed and mat bottom of basin with Rain Garden Mix, 618 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 27 Install Type A seed & North American Green S150 Matting - Planting method shall be per manufacturer's recommendation, 3,244 SY.
- RN 28 Existing sanitary sewer
- RN 29 Remove and reposition wire fence (subsidiary)
- RN 30 Temporary grading easement
- RN 31 Adjust manhole to grade, total 2 this sheet (subsidiary)
- RN 32 Install NRD seed & Coconut Matting - Planting method shall be per manufacturer's recommendation, 235 SY.



Contractor shall pump and remove ponded water and suspended sediment and solids from the existing basin. Suspended sediments shall be removed from the basin water using a best management practice of the contractors choosing. Once water has been removed, the basin shall be cleaned and prepared for infilling. Trees shall be removed and grubbed, sediment basin improvements including rip-rap, baffles, refuse, and any unsuitable soils shall be removed and disposed of legally. All removal, clean-up and disposal costs shall be considered incidental to Clearing and Grubbing as part of the Basin Removal Project.

Contractor to grade distance of 2' from lot line outside of fence at 2% slope along lot 255

Contractor to grade distance of 5' from lot line outside of fence at 2% slope along lots 256-258

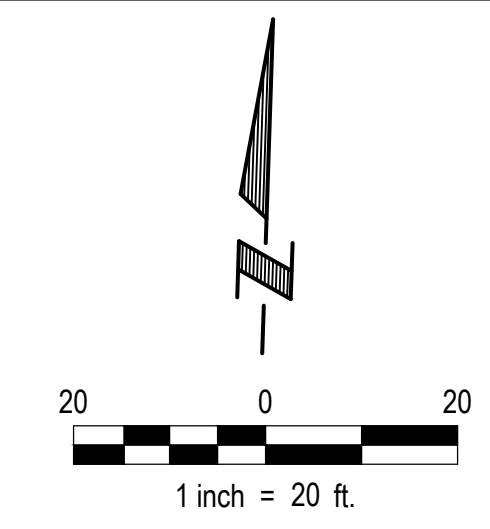
Note:
 To receive final PCSMP approval the construction of all PCSMP BMP's is required to be certified by E&A Consulting Group. Contractor shall contact Randall Pierce of E&A Consulting Group (402-709-3085 office / 402-510-1321 cell) a minimum of 48 hours prior to starting construction on any PCSMP BMP.

DRY DETENTION BASIN NOTES

SEDIMENT BASIN 2 PCSMP BASIN 3	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	OUTLET PIPE DIAMETER	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME		
				RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
OUTLOT "O"	1192'	1202'	30"	TYPE II AI (54") Modified	1200'	1201'	1201.25'	30'	20.97	38,061	65,591

UTILITIES NOTE:

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LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Utility Valve (Gas)
- Curb Inlet
- Manhole
- Flared End Section
- Sign
- Power Riser
- Telephone Riser
- Tree
- Building
- Fence Line
- Gas Line
- Water Line
- Existing Storm Sewer
- Proposed Storm Sewer
- Storm Sewer Line
- Sanitary Sewer Line
- Power Line (Overhead)
- Underground Power Line
- Underground Electrical Line(s)
- Underground Cable Communication Line (Telephone, TV)
- Existing Contours
- Proposed Contours
- Wattles
- Silt Fence
- Limits of Construction
- PCSMP Basin Perimeter
- Temporary Grading Easement
- Fill Areas
- Trail (see Reference Note 18 & 19 this sheet)
- Rip-Rap Scour Hole (see detailed sheet 3)
- Seed and Mat Disturbed Area (see Reference Note 27 this sheet)
- Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 22 this sheet)
- Seed and Mat - Rain Garden Mix with the following species:
 - Virginia Wildrye 4 PLS lbs per acre
 - Canada Wildrye 3 PLS lbs per acre
 - Prairie Dropseed 0.25 PLSlbs per acre
 - Fowl Bluegrass 1.25 PLS per acre
 - Blue Vervain 0.25 PLS lbs per acre
 - Sweet Blackeyed Susan 0.05 PLS lbs per acre
 - Fox Sedge 0.4 PLS lbs per acre
- Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 26 this sheet)
- Seed and Mat Disturbed Area NRD Mix and Coconut Mat (see Reference Note 32 this sheet)

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 Engineering Answers

ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S/D: 6/87
 OMAHA, NEBRASKA

SEDIMENT BASIN 2 - PLAN

PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Professional Engineer
MERESA M. WOOTEN
 E-15787
 STATE OF NEBRASKA

Revisions	Description	Date
1		

Proj No: P2015.336.017
 Date: 10/10/2024
 Designed By: JUN
 Drawn By: JUN
 Scale: AS SHOWN
 Sheet: 7 of 16
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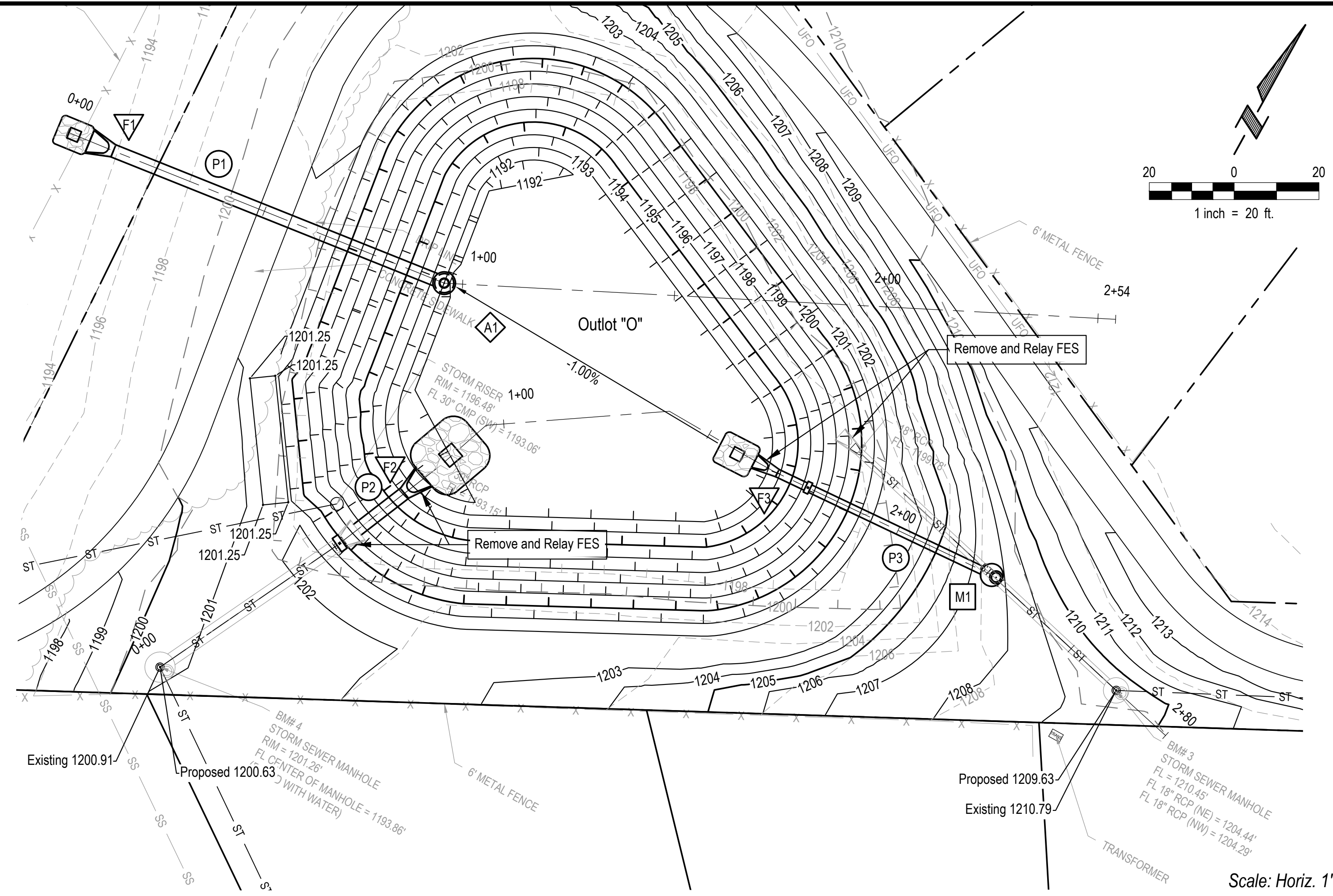
CONSTRUCT FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F1	0+11.65	30"	FL = 1191.58 (30")	N: 566180.36 E: 2688079.41	(Pipe Couplers subsidiary) Construct foundation (subsidiary)

REMOVE AND RELAY FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F2	0+70.75	30"	FL = 1192.55 (30")	N: 566142.68 E: 2688178.47	Remove & Relay FES (Pipe Couplers subsidiary) Construct 30" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)
F3	1+68.48	18"	FL = 1193.50 (18")	N: 566189.25 E: 2688253.17	Remove & Relay FES (Pipe Couplers subsidiary) Construct 18" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)

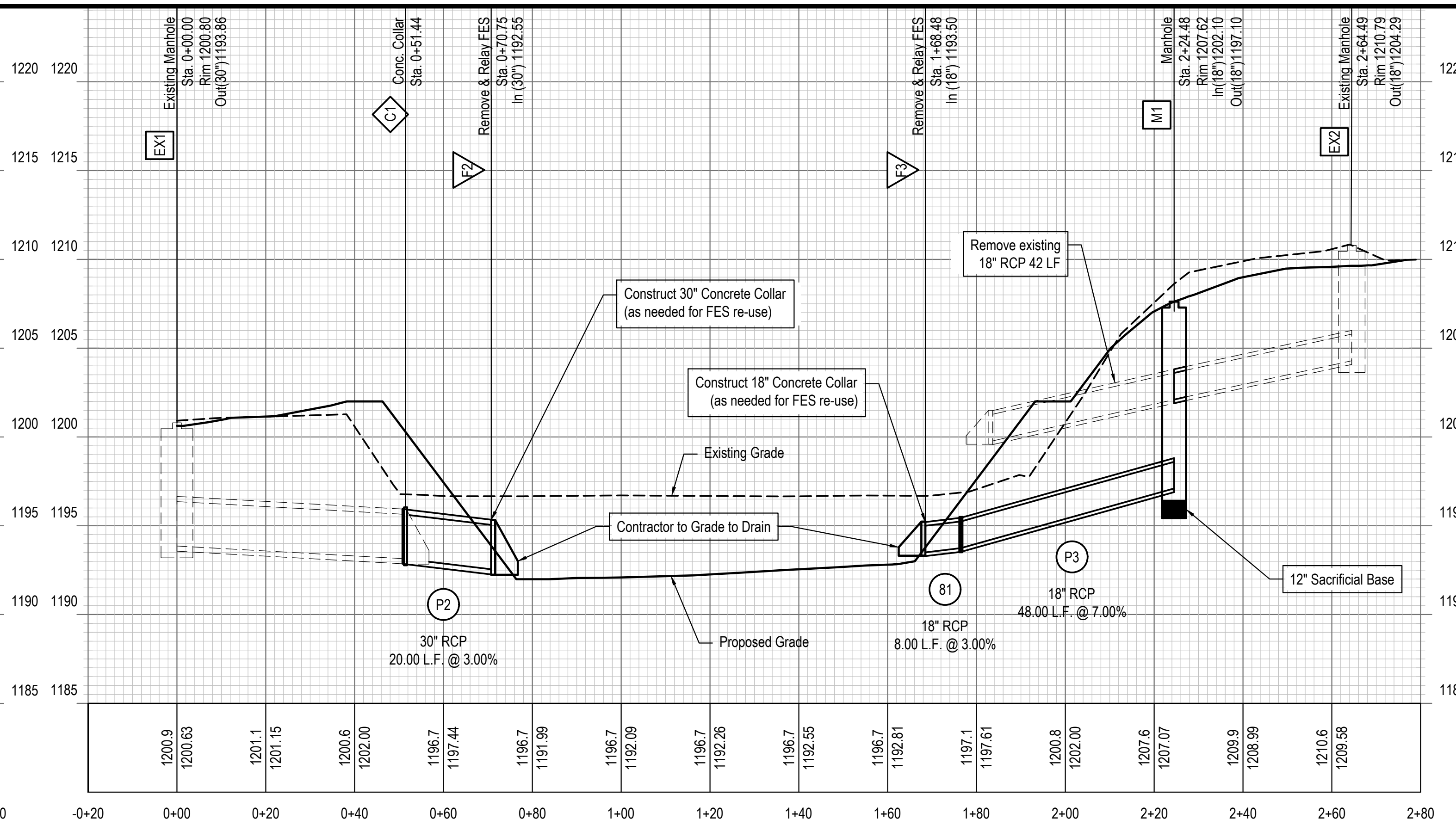
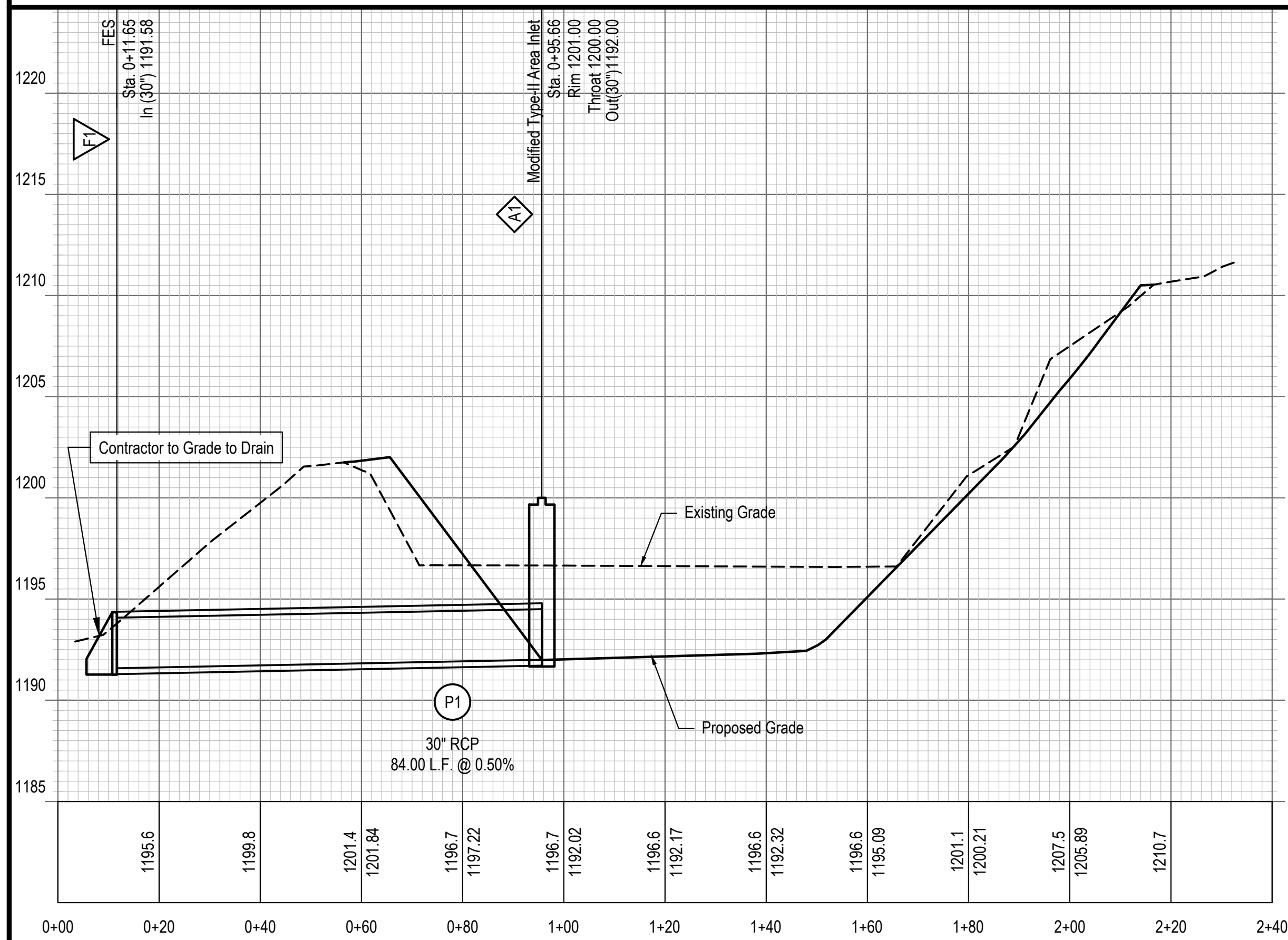
CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P1	A1	F1	30"	III	84.00	0.50%	
P2	EX F2	F2	30"	III	20.00	3.00%	Construct Anti-Seep Collar at 30' from Area Inlet (subsidiary)
P3	M1	79	18"	III	48.00	7.00%	

CONSTRUCT STORM SEWER MANHOLE						
ID	Storm Sta.	Dia.	Details	Coordinates	V.F.	Remarks
M1	2+24.48	54"	RIM = 1207.62 INV IN = 1202.10 (18") INV OUT = 1197.10 (18")	N: 566192.56 E: 2688309.07	10.5	Contractor to verify flowline Manhole to include 12" sacrificial base (subsidiary)

CONSTRUCT AREA INLET						
ID	Storm Sta.	Description (Type)	Details	Northing	Easting	Remarks
A1	0+95.66	II (54" I.D.)	RIM = 1201.00 THROAT = 1200.00 INV OUT = 1192.00 (30")	565968.57	2687108.49	Modified - See Basin Outlet Detail on Sheet 7



SEDIMENT BASIN 2 - PCSMP BASIN 3



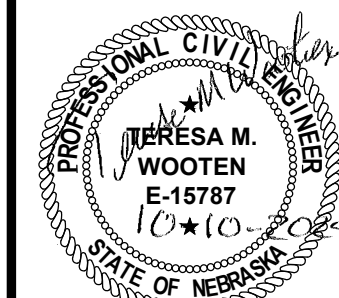
PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP



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ANCHOR POINT
SEDIMENT BASINS 2, 2B,
3, 4, & 7 CONVERSION
S.D. 687
OMAHA, NEBRASKA

SEDIMENT BASIN 2 -
PROFILE



Revisions	Description	Date
1	As Shown	JUN 10/10/2024

Proj No: P201536.017
Date: 10/10/2024
Designed By: JUN
Drawn By: JUN
Scale: AS SHOWN
Sheet: 8 of 16
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REFERENCE NOTES

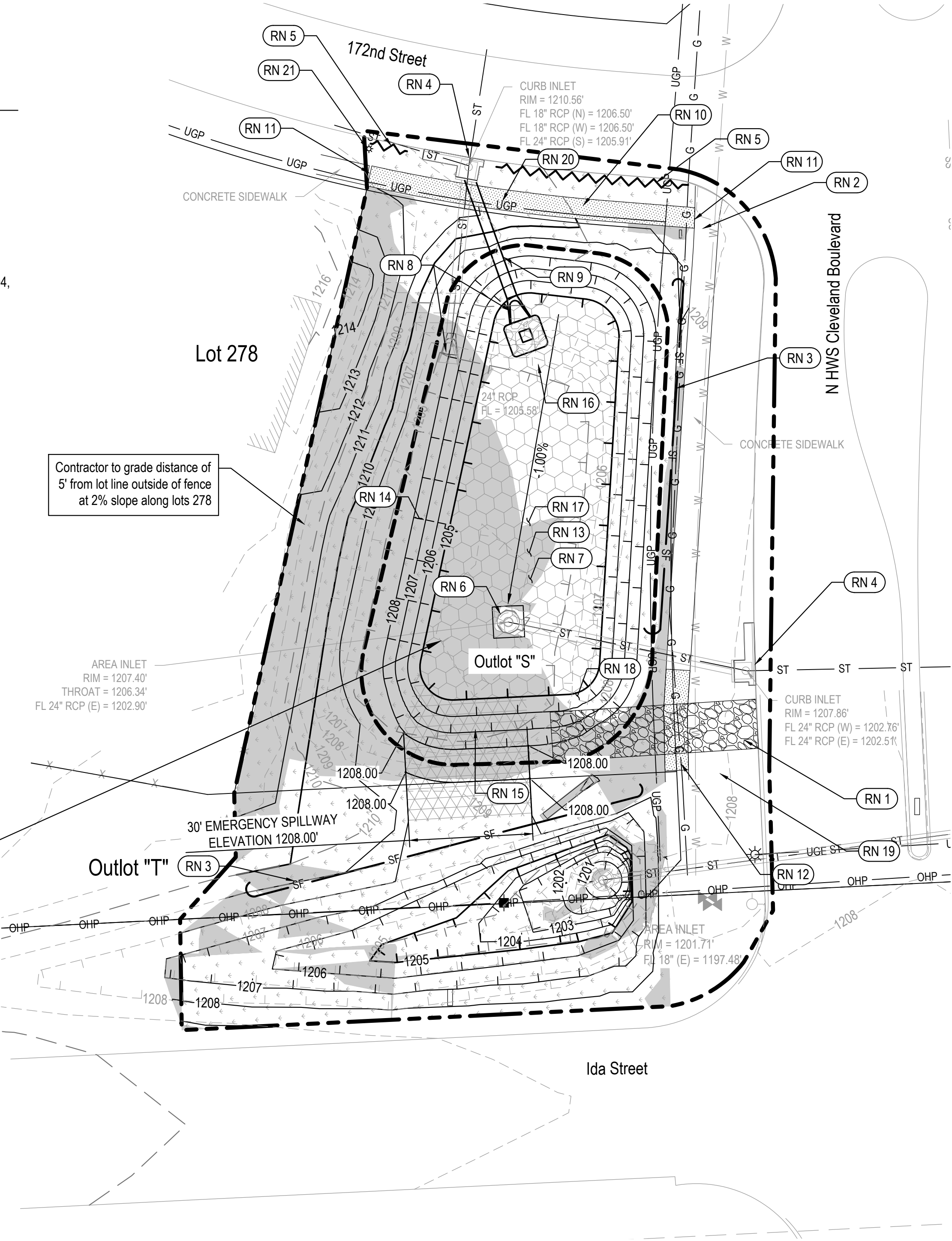
- RN 1 Install, maintain & remove construction entrance, 1 EA
- RN 2 Existing sidewalk
- RN 3 Install silt fence (J-hooks every 100 ft) 197 LF (total this sheet) - See sheet 3 for detail
- RN 4 Install curb inlet protection, 2 EA (total this sheet)
- RN 5 Install straw wattle, 55 LF (total this sheet)
- RN 6 Grout 2 of 3 existing dewatering holes (subsidiary)
- RN 7 Remove temporary sediment basin - See sheet 3 for detail
- RN 8 Remove and relay 24" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 24" concrete collar, 1 EA, (if required) - See profile sheet 10 for details
- RN 9 Contractor may remove and re-use 24" RCP storm sewer pipe if in good condition, remove 24" RCP, 40LF, construct 24" RCP, 32 LF, contractor to verify flowline - See profile sheet 10 for details
- RN 10 Construct 5' wide 4" PCC Sidewalk, 398 SF, jointed in 5'x4' panels
- RN 11 Contractor shall abut proposed sidewalk to existing sidewalk with thickened edge. Install expansion joint at connection. Adjust elevation as needed to match existing grade. (subsidiary of sidewalk) Barricading sidewalk closure required (subsidiary).
- RN 12 Remove and replace 6' wide 6" PCC Trail, 140 SF. Contractor shall abut new sidewalk to existing sidewalk with thickened edge. Install expansion joint at connection. Adjust elevation as needed to match existing grade (subsidiary of remove and replace concrete sidewalk). Barricading sidewalk closure required (subsidiary).
- RN 13 Excavate, dry and re-compact silt or haul off site, 295 CY
- RN 14 Reshape bank to match proposed contours (3:1 slope max.)
- RN 15 Emergency spillway, 30 LF, install Type A Seed & North American Green VMAX C350, 98 SY, installed per manufacturer's recommendation.
- RN 16 Construct preformed rip-rap scour hole, 7 TN Type A, 16 SY filter fabric - See sheet 3 for detail
- RN 17 Seed and mat bottom of basin with Rain Garden Mix, 396 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 18 Install Type A seed & North American Green S150 Matting - Planting method shall be per manufacturer's recommendation, 1,672 SY.
- RN 19 Protect landscaping tree in proximity to construction entrance (subsidiary)
- RN 20 OPPD underground power line in near proximity - extreme caution when constructing pipe.
- RN 21 Protect light pole (subsidiary)

Contractor shall pump and remove ponded water and suspended sediment and solids from the existing basin. Suspended sediments shall be removed from the basin water using a best management practice of the contractors choosing. Once water has been removed, the basin shall be cleaned and prepared for infilling. Trees shall be removed and grubbed, sediment basin improvements including rip-rap, baffles, refuse, and any unsuitable soils shall be removed and disposed of legally. All removal, clean-up and disposable costs shall be considered incidental to Clearing and Grubbing as part of the Basin Removal Project.

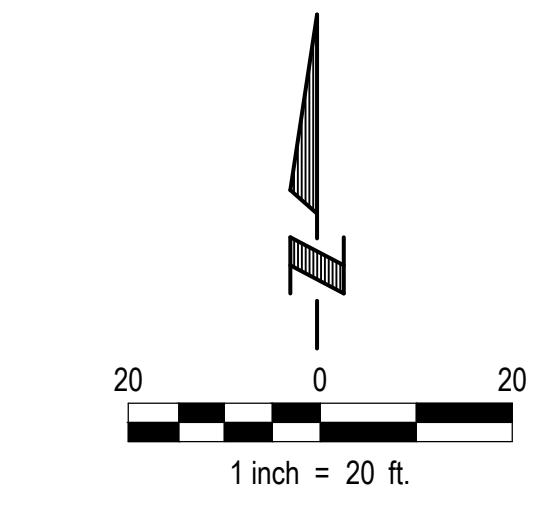
Note:
 To receive final PCSMP approval the construction of all PCSMP BMP's is required to be certified by E&A Consulting Group. Contractor shall contact Randall Pierce of E&A Consulting Group (402-709-3085 office / 402-510-1321 cell) a minimum of 48 hours prior to starting construction on any PCSMP BMP.

UTILITIES NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKING BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES.



DRY DETENTION BASIN NOTES											
	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME					
SEDIMENT BASIN 2B PCSMP BASIN 2	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	EXISTING OUTLET PIPE DIAMETER	EXISTING RISER PIPE DIAMETER	EXISTING RISER THROAT ELEVATION (FT)	EXISTING RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
OUTLET "S"	1204'	1208.50'	24"	TYPE II AI (54") Modified	1206.34'	1207.40'	1208.00'	30'	6.17	11,199	7,088



LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Utility Valve (Gas)
- Curb Inlet
- Manhole
- Flared End Section
- Sign
- Power Riser
- Telephone Riser
- Tree
- Building
- Fence Line
- Gas Line
- Water Line
- Existing Storm Sewer
- Proposed Storm Sewer
- Storm Sewer Line
- Sanitary Sewer Line
- Power Line (Overhead)
- Underground Power Line
- Underground Electrical Line(s)
- Underground Cable Communication Line (Telephone, TV)
- Existing Contours
- Proposed Contours
- Wattles
- Silt Fence
- Limits of Construction
- PCSMP Basin Perimeter
- Fill Areas
- Construction Entrance
- Sidewalk (see Reference Note 10 & 12 this sheet)
- Rip-Rap Scour Hole (see detail sheet 3)
- Seed and Mat Disturbed Area (see Reference Note 18 this sheet)
- Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 15 this sheet)
- Seed and Mat - Rain Garden Mix with the following species:
 - Virginia Wildrye 4 PLS lbs per acre
 - Canada Wildrye 3 PLS lbs per acre
 - Prairie Dropseed 0.25 PLSlbs per acre
 - Fowl Bluegrass 1.25 PLS per acre
 - Blue Vervain 0.25 PLS lbs per acre
 - Sweet Blackeyed Susan 0.05 PLS lbs per acre
 - Fox Sedge 0.4 PLS lbs per acre
- Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 17 this sheet)

PCWP OMA-20150127-210-P PROJECT TYPE: PCSMP

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 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S/D: 6/87
 OMAHA, NEBRASKA

SEDIMENT BASIN 2B - PLAN

Revisions	Description	Date

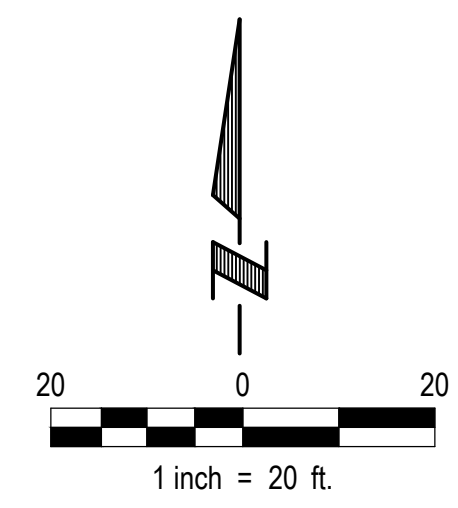
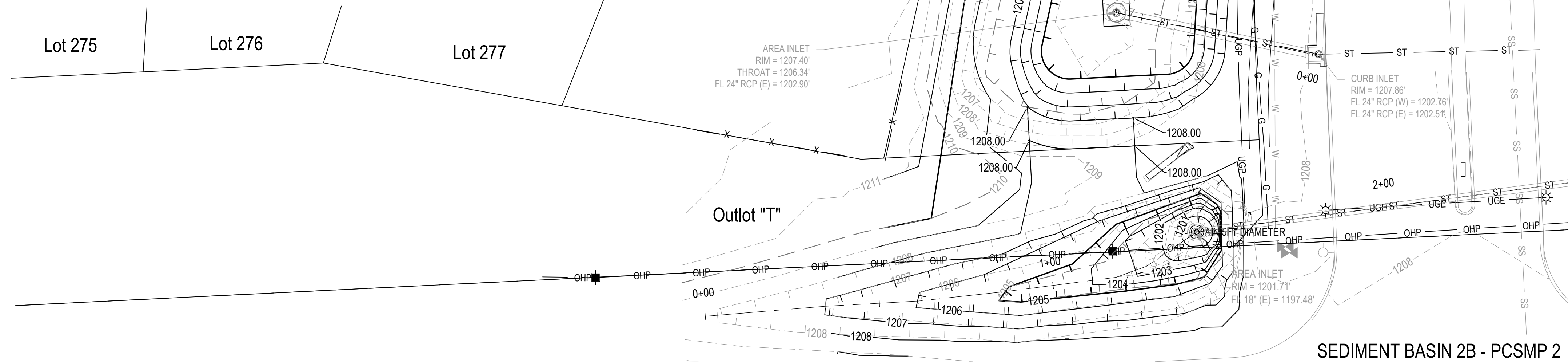
Proj No:	P2015.036.017
Date:	10/10/2024
Designed By:	JUN
Drawn By:	JUN
Scale:	AS SHOWN
Sheet:	9 of 16

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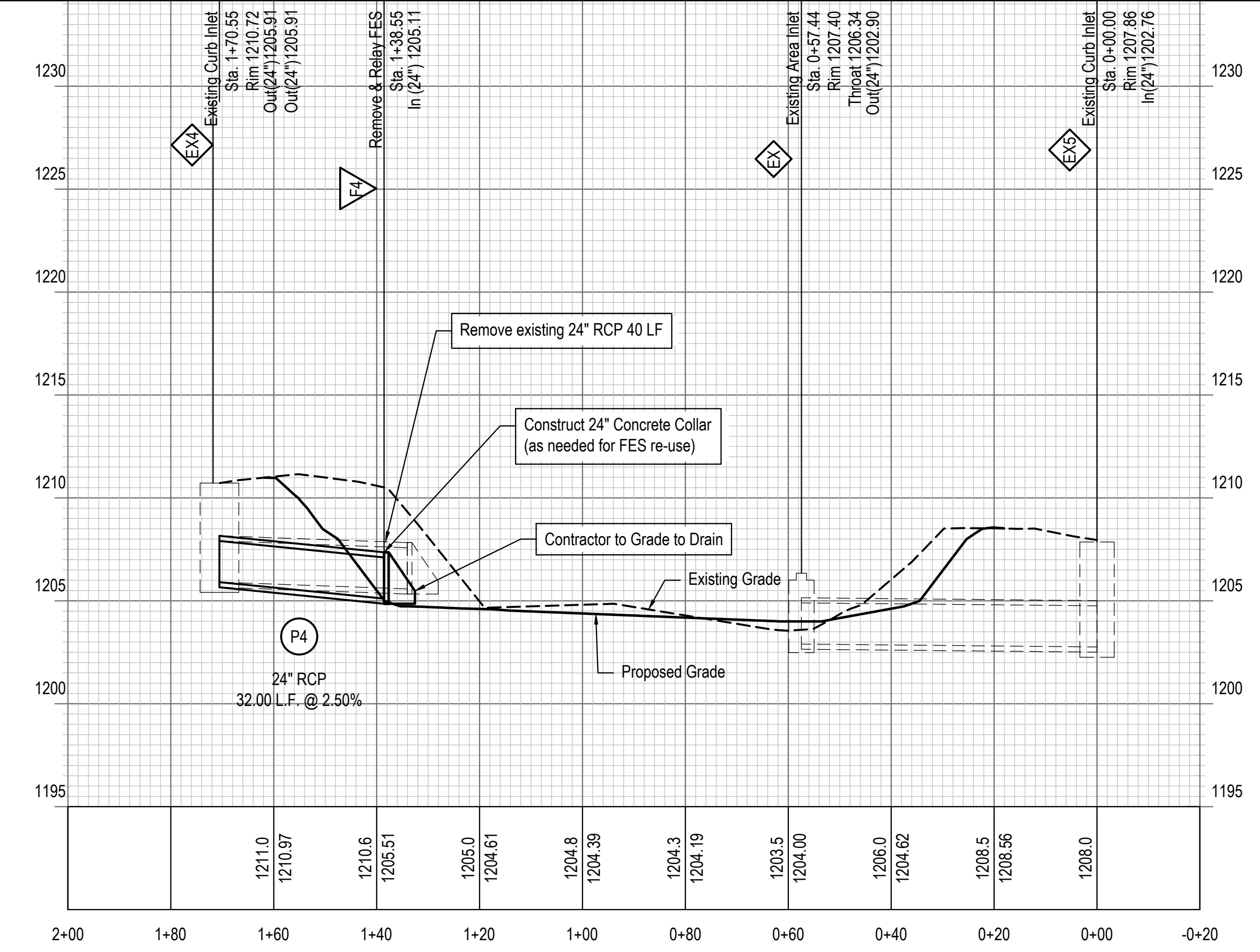
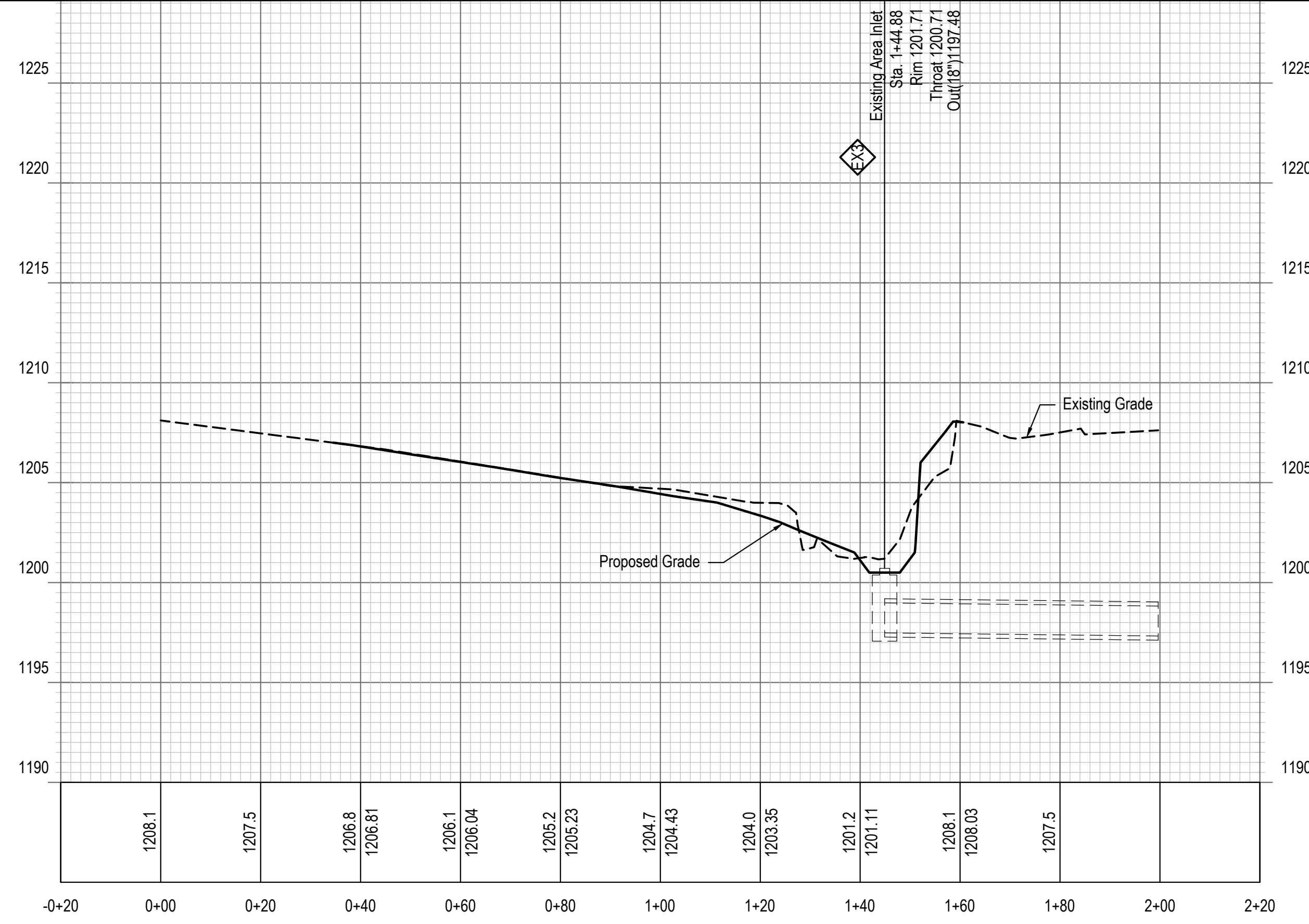


REMOVE AND RELAY FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F4	1+38.55	24"	FL = 1205.11 (24")	N: 565443.00 E: 2689326.97	Remove & Relay FES (Pipe Couplers subsidiary) Construct 24" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)

CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P4	EX4	F4	24"	III	32.00	2.50%	OPPD underground power line in near proximity - use extreme caution

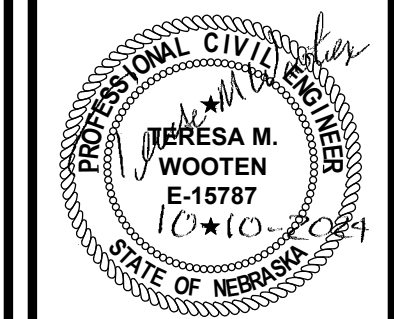


Scale: Horiz. 1"=20'
Vert. 1"=5'



PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Revisions	Date	Description
1	10/10/2024	Initial Design



SEDIMENT BASIN 2B -
PROFILE

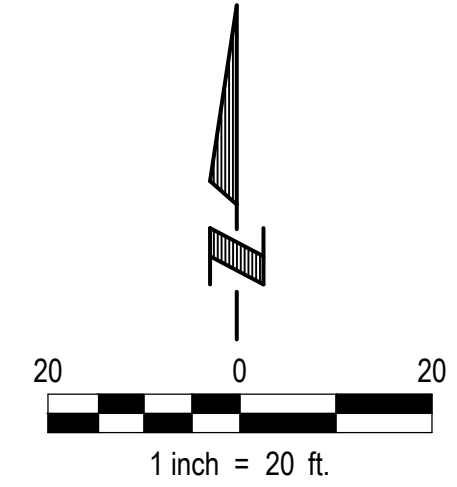
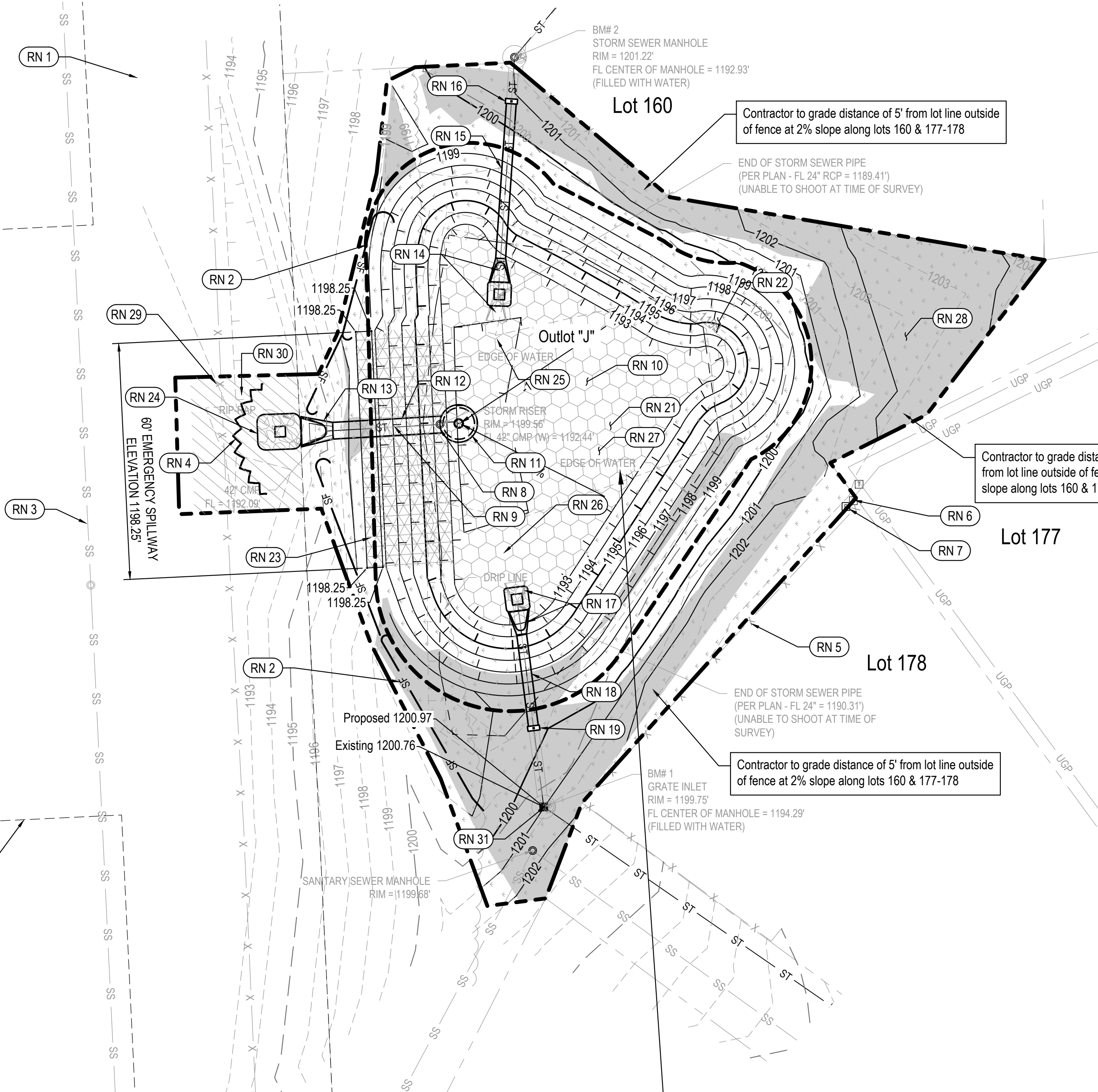
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NO REFERENCE NOTES

- RN 1 Access to Sediment Basin 3 site area from Sediment Basin 4 site area, silt fence to be modified for access (subsidiary to construction entrance)
- RN 2 Install silt fence (J-hooks every 100 ft) 167 LF, (total this sheet) - See sheet 3 for detail
- RN 3 Existing sanitary sewer
- RN 4 Install straw wattle, 32 LF
- RN 5 Protect fence (subsidiary)
- RN 6 Protect telephone riser (subsidiary)
- RN 7 Protect power riser (subsidiary)
- RN 8 Remove CMP riser structure and base, 1 EA
- RN 9 Remove 42" CMP, 28 LF
- RN 10 Remove temporary sediment basin - See sheet 3 for detail
- RN 11 Construct 96" Type II Area Inlet, modified - See basin outlet detail, 1 EA
- RN 12 Construct 42" RCP, 32 LF, contractor to verify flowline - See profile sheet 12 for details. Construct Anti-seep collar at location 18 feet from Area Inlet structure (subsidiary) - See sheet 3 for detail
- RN 13 Construct 42" FES, 1 EA, contractor to verify flowline - See profile sheet 12 for details. (pipe couplers on first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary)
- RN 14 Remove and relay 24" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 24" concrete collar, 1 EA, (if required) - See profile sheet 12 for details
- RN 15 Contractor may remove and re-use 24" RCP storm sewer pipe if in good condition, remove 24" RCP, 49 LF, construct 24" RCP, 40 LF, contractor to verify flowline - See profile sheet 12 for details
- RN 16 Construct 24" concrete collar, 1 EA - See profile sheet 12 for details
- RN 17 Remove and relay 24" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 24" concrete collar, 1 EA, (if required) - See profile sheet 12 for details
- RN 18 Contractor may remove and re-use 24" RCP storm sewer pipe if in good condition, remove 24" RCP, 30 LF, construct 24" RCP, 24 LF, contractor to verify flowline - See profile sheet 12 for details
- RN 19 Construct 24" concrete collar, 1 EA - See profile sheet 12 for details
- RN 20 Temporary grading easement
- RN 21 Excavate, dry and re-compact silt or haul off site, 305 CY
- RN 22 Reshape bank to match proposed contours (3:1 slope max.)
- RN 23 Emergency spillway, 60 LF, install Type A Seed & North American Green VMAX C350, 146 SY, installed per manufacturer's recommendation.
- RN 24 Construct preformed rip-rap scour hole, 10 TN Type A, 20 SY filter fabric - See sheet 3 for detail
- RN 25 Construct preformed rip-rap scour hole, 4 TN Type A, 10 SY filter fabric - See sheet 3 for detail
- RN 26 Construct preformed rip-rap scour hole, 4 TN Type A, 10 SY filter fabric - See sheet 3 for detail
- RN 27 Seed and mat bottom of basin with Rain Garden Mix, 460 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 28 Install Type A seed & North American Green S150 Matting - Planting method shall be per manufacturer's recommendation, 1,687 SY.
- RN 29 Remove and reposition wire fence (subsidiary)
- RN 30 Install NRD seed & Coconut Matting - Planting method shall be per manufacturer's recommendation, 105 SY.
- RN 31 Adjust manhole to grade, total 1 this sheet (subsidiary)



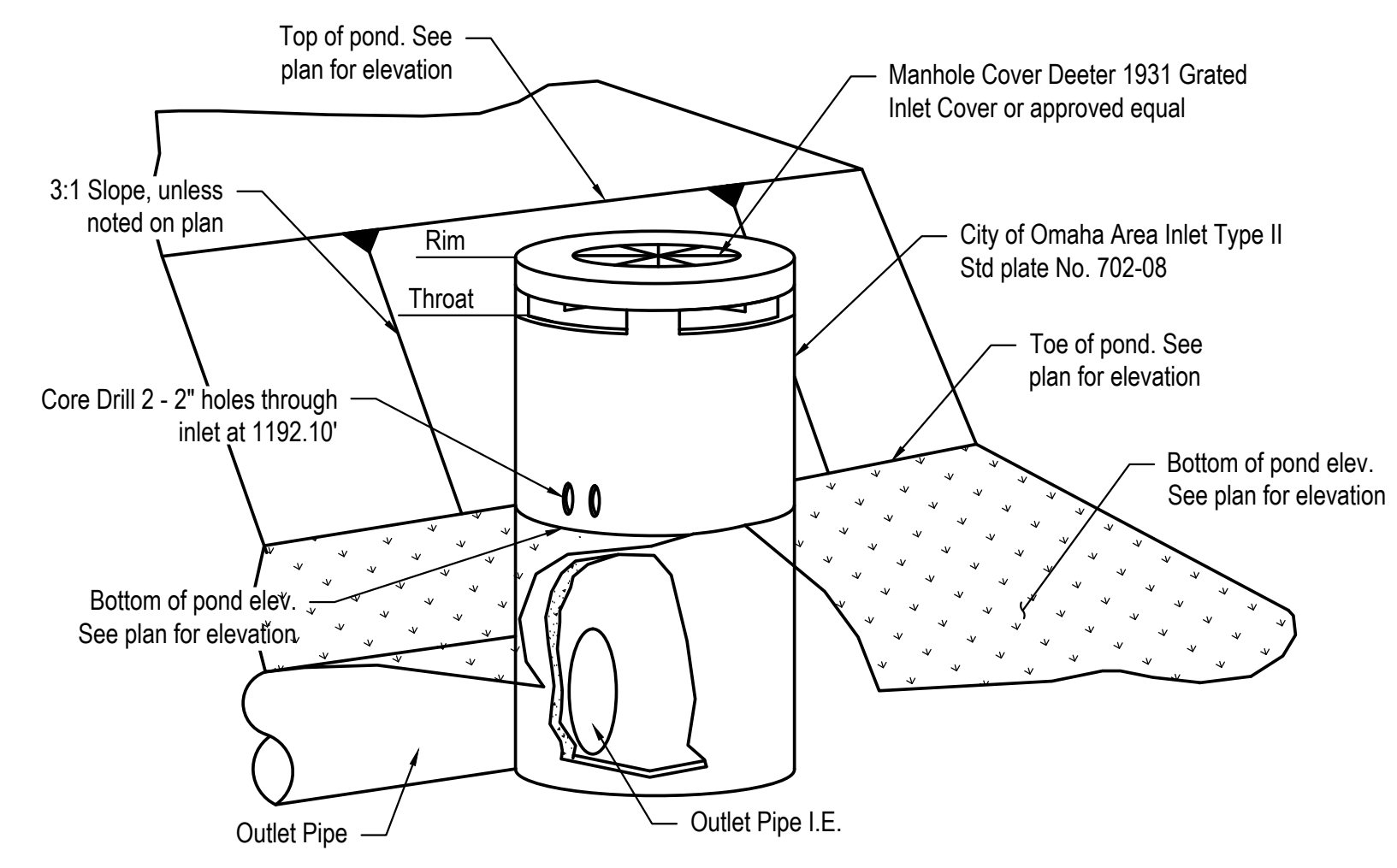
LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Utility Valve (Gas)
- Curb Inlet
- Manhole
- Flared End Section
- Sign
- Power Riser
- Telephone Riser
- Tree
- Building
- Fence Line
- Gas Line
- Water Line
- Existing Storm Sewer
- Proposed Storm Sewer
- Storm Sewer Line
- Sanitary Sewer Line
- Power Line (Overhead)
- Underground Power Line
- Underground Electrical Line(s)
- Underground Cable Communication Line (Telephone, TV)
- Existing Contours
- Proposed Contours
- Wattles
- Silt Fence
- Limits of Construction
- PCSMP Basin Perimeter
- Temporary Grading Easement
- Fill Areas
- Rip-Rap Scour Hole (see detail sheet 3)
- Seed and Mat Disturbed Area (see Reference Note 28 this sheet)
- Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 23 this sheet)
- Seed and Mat - Rain Garden Mix with the following species:
 - Virginia Wildrye 4 PLS lbs per acre
 - Canada Wildrye 3 PLS lbs per acre
 - Prairie Dropseed 0.25 PLS lbs per acre
 - Fowl Bluegrass 1.25 PLS lbs per acre
 - Blue Vervain 0.25 PLS lbs per acre
 - Sweet Blackeyed Susan 0.05 PLS lbs per acre
 - Fox Sedge 0.4 PLS lbs per acre
- Planting Method shall be per Manufacturer's Recommendation. (See Reference Note 27 this sheet)
- Seed and Mat Disturbed Area NRD Mix and Coconut Mat (see Reference Note 30 this sheet)

Note:
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UTILITIES NOTE:
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DRY DETENTION BASIN NOTES

SEDIMENT BASIN 3 PCSMP BASIN 4	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	OUTLET PIPE DIAMETER	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME		
				RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
OUTLOT "J"	1192'	1199'	42"	TYPE II AI (96") Modified	1196.75'	1197.75'	1198.25'	60'	28.03	50,874	24,236

PCWP OMA-20150127-210-P PROJECT TYPE: PCSMP

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ANCHOR POINT
 SEDIMENT BASINS 2, 2B,
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 S/D: 6/87
 OMAHA, NEBRASKA

**SEDIMENT BASIN 3 -
 PLAN**

Revisions	Description	Date

Proj No:	P2015.036.017
Date:	10/10/2024
Designed By:	JUN
Drawn By:	JUN
Scale:	AS SHOWN
Sheet:	11 of 16

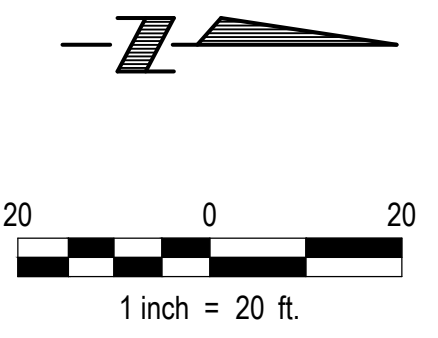
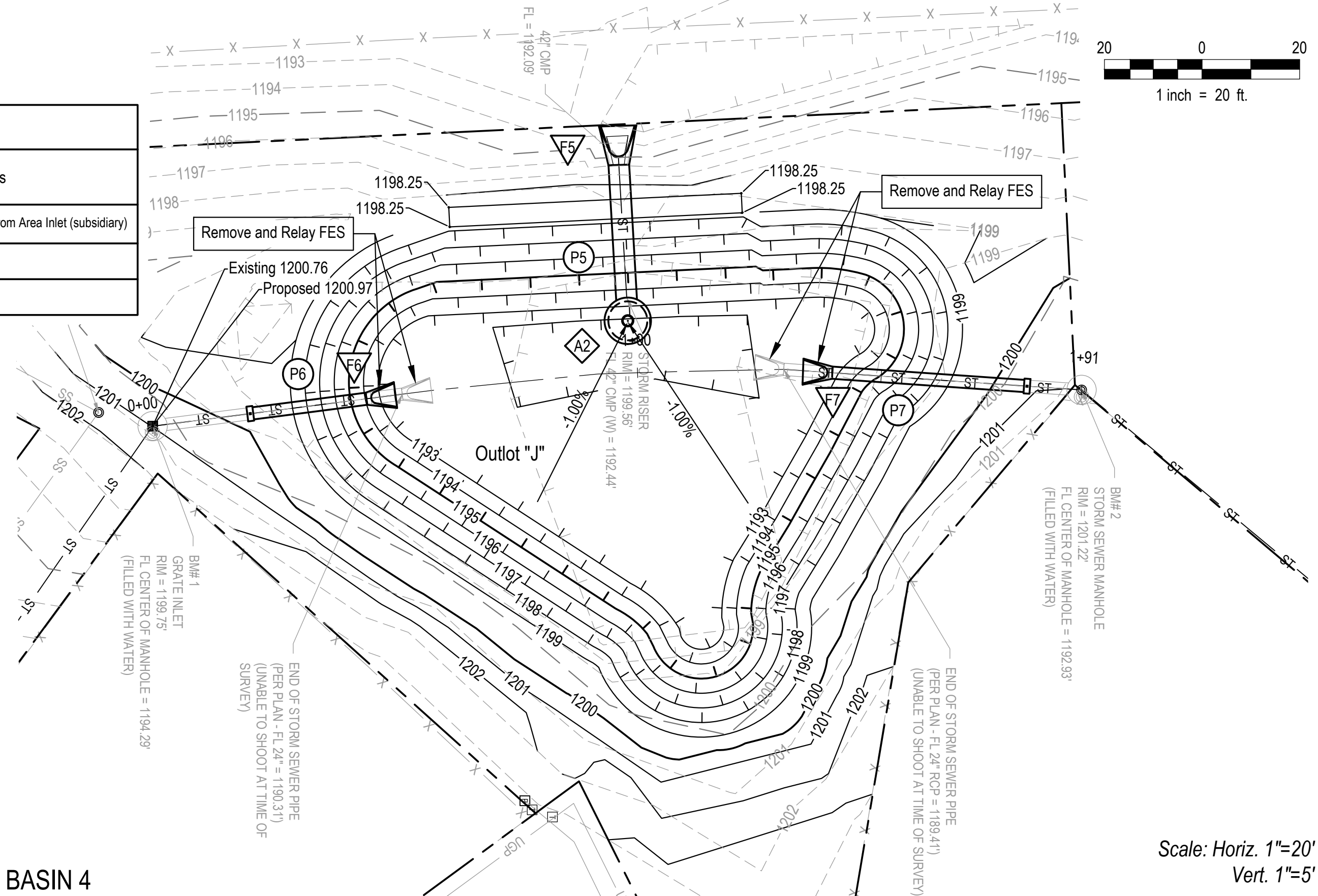
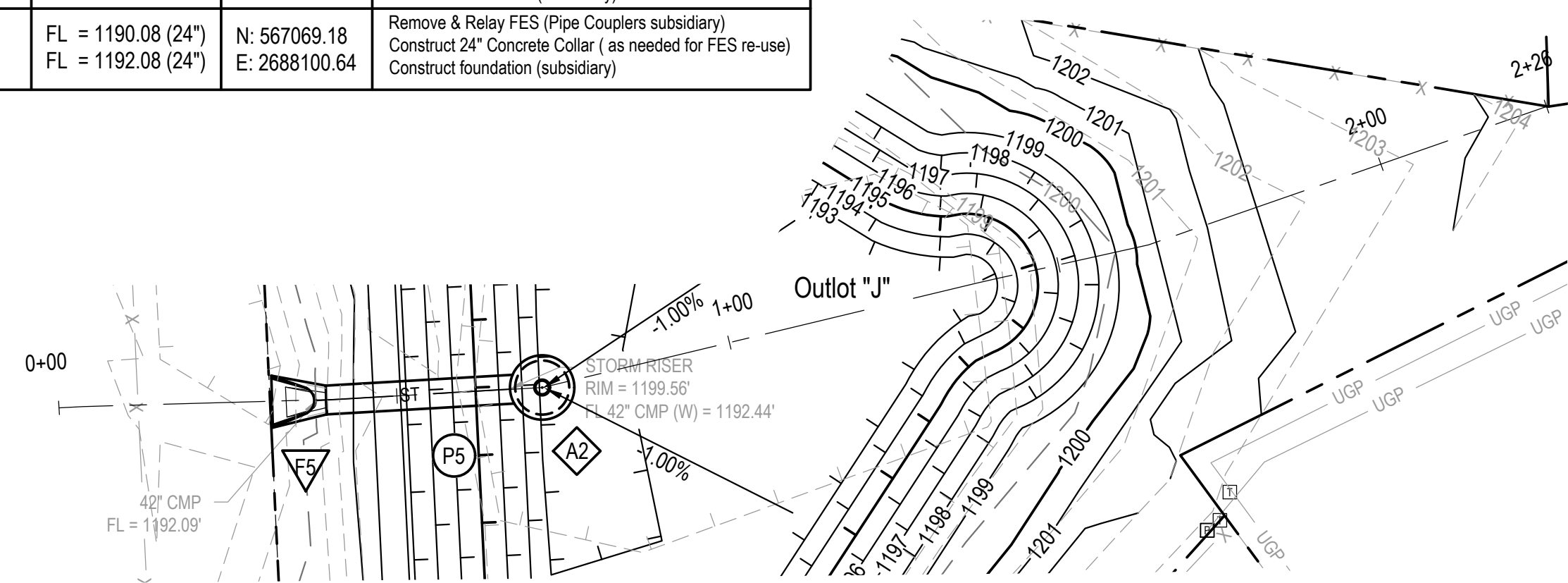
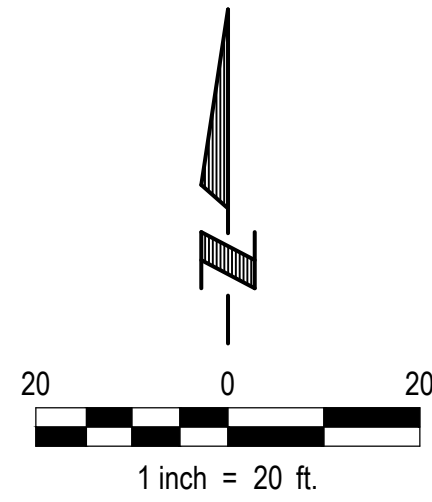
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 Jeremy Nichols

CONSTRUCT AREA INLET						
ID	Storm Sta.	Description (Type)	Details	Northing	Easting	Remarks
A2	0+71.52	II (96" I.D.)	RIM = 1197.75 THROAT = 1196.75 INV OUT = 1192.00 (42")	566804.90	2687035.74	Modified - See Basin Outlet Detail on Sheet 11

CONSTRUCT FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F5	0+39.52	42"	FL = 1191.84 (42")	N: 567025.45 E: 2688058.06	(Pipe Couplers subsidiary) Construct foundation (subsidiary)

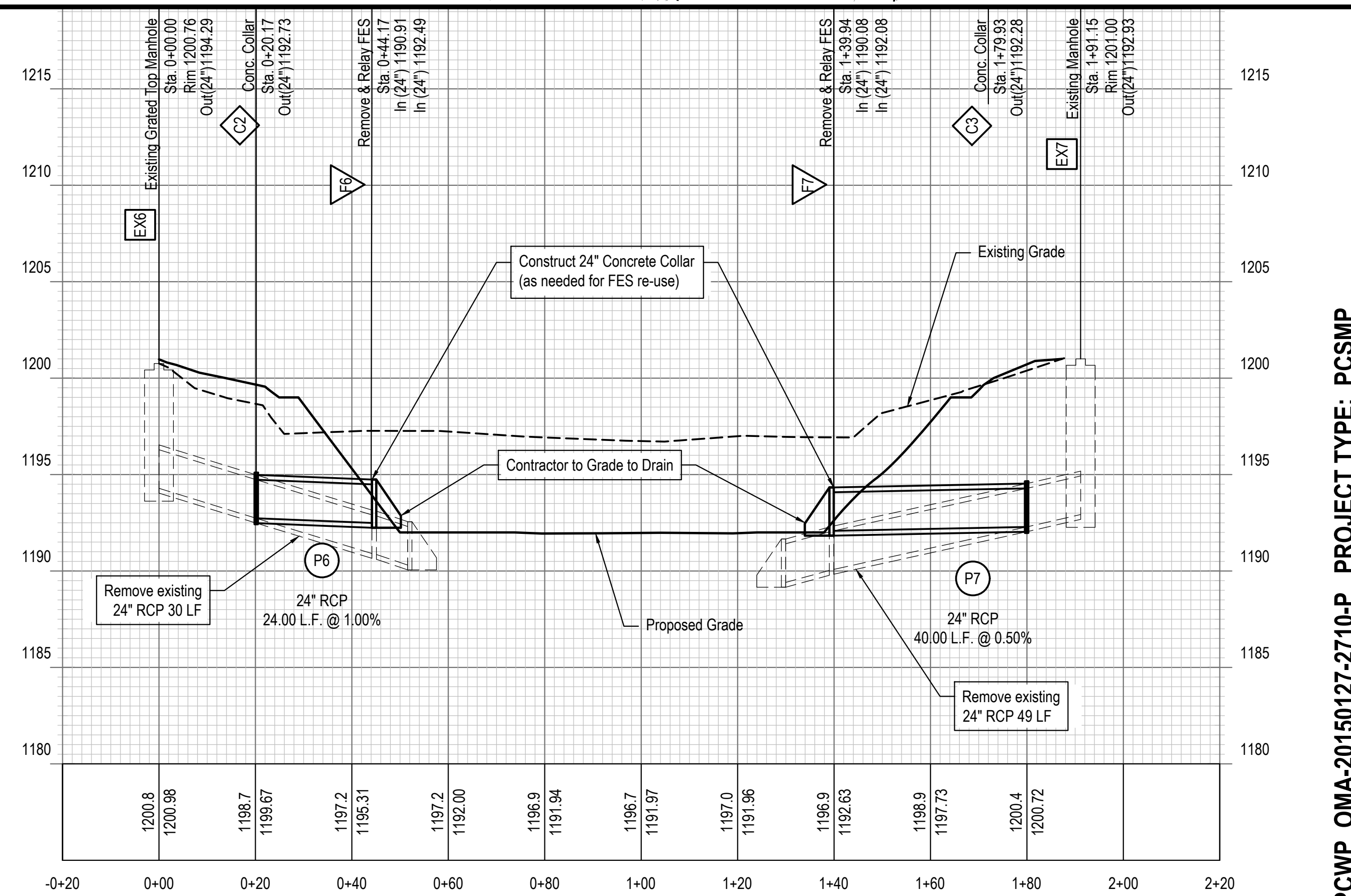
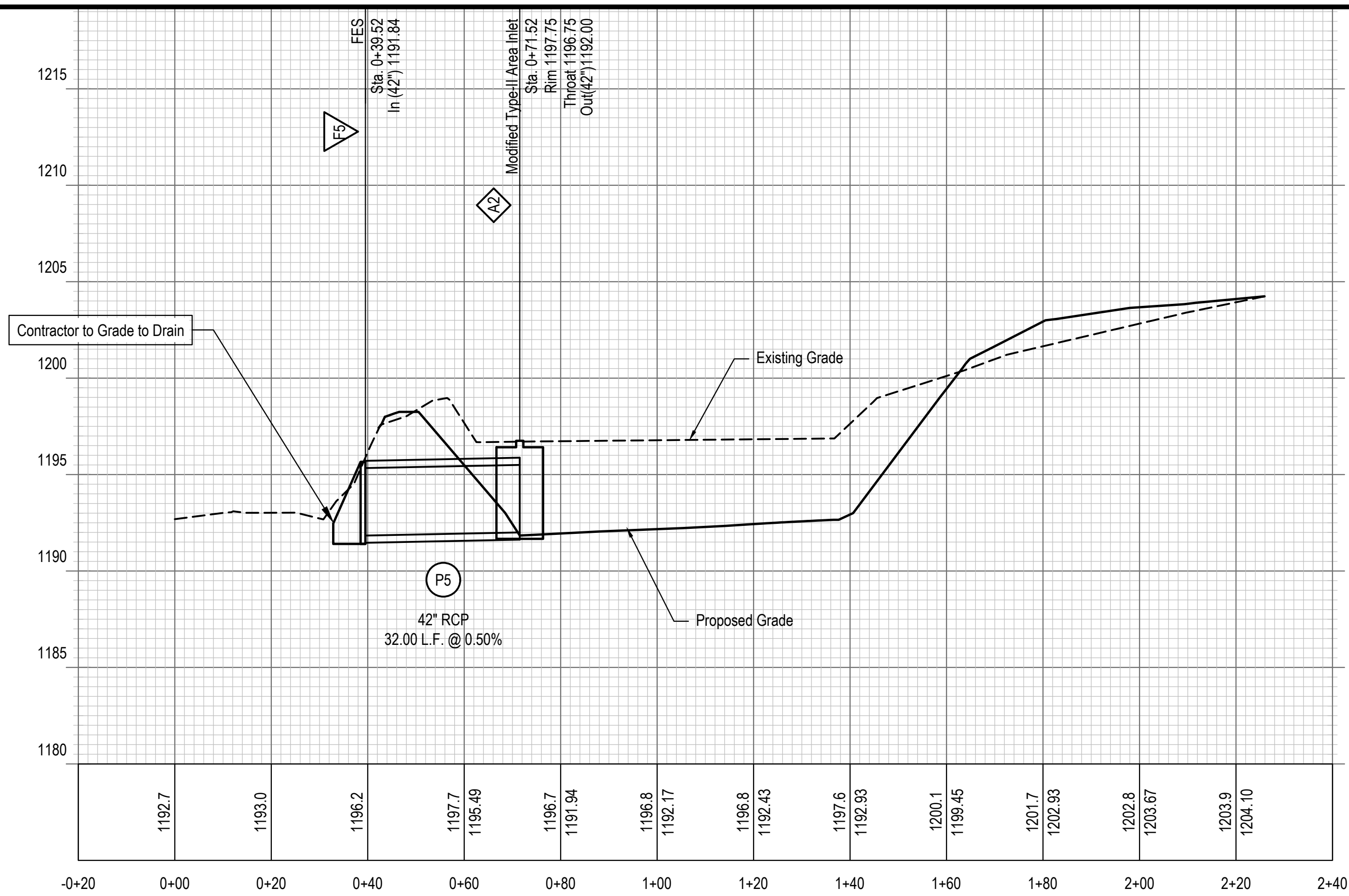
CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P5	A2	F5	42"	D(0.01)=1,350	32.00	0.50%	Construct Anti-Seep Collar at 18' from Area Inlet (subsidiary)
P6	C2	F6	24"	III	24.00	1.00%	
P7	C3	F7	24"	III	40.00	0.50%	

REMOVE AND RELAY FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F6	0+44.17	24"	FL = 1190.91 (24") FL = 1192.49 (24")	N: 566973.73 E: 2688105.98	Remove & Relay FES (Pipe Couplers subsidiary) Construct 24" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)
F7	1+39.94	24"	FL = 1190.08 (24") FL = 1192.08 (24")	N: 567069.18 E: 2688100.64	Remove & Relay FES (Pipe Couplers subsidiary) Construct 24" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)



SEDIMENT BASIN 3 - PCSMP BASIN 4

Scale: Horiz. 1"=20'
Vert. 1"=5'

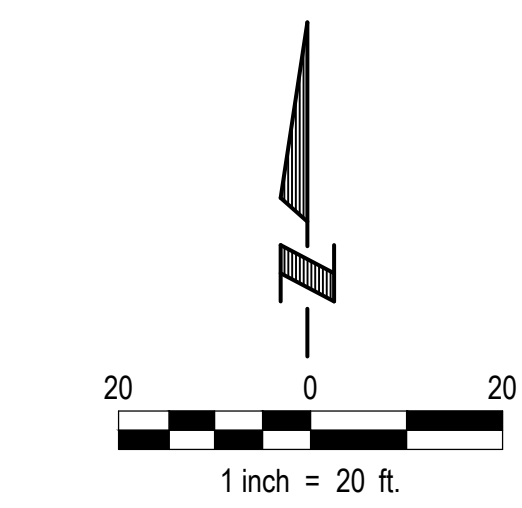
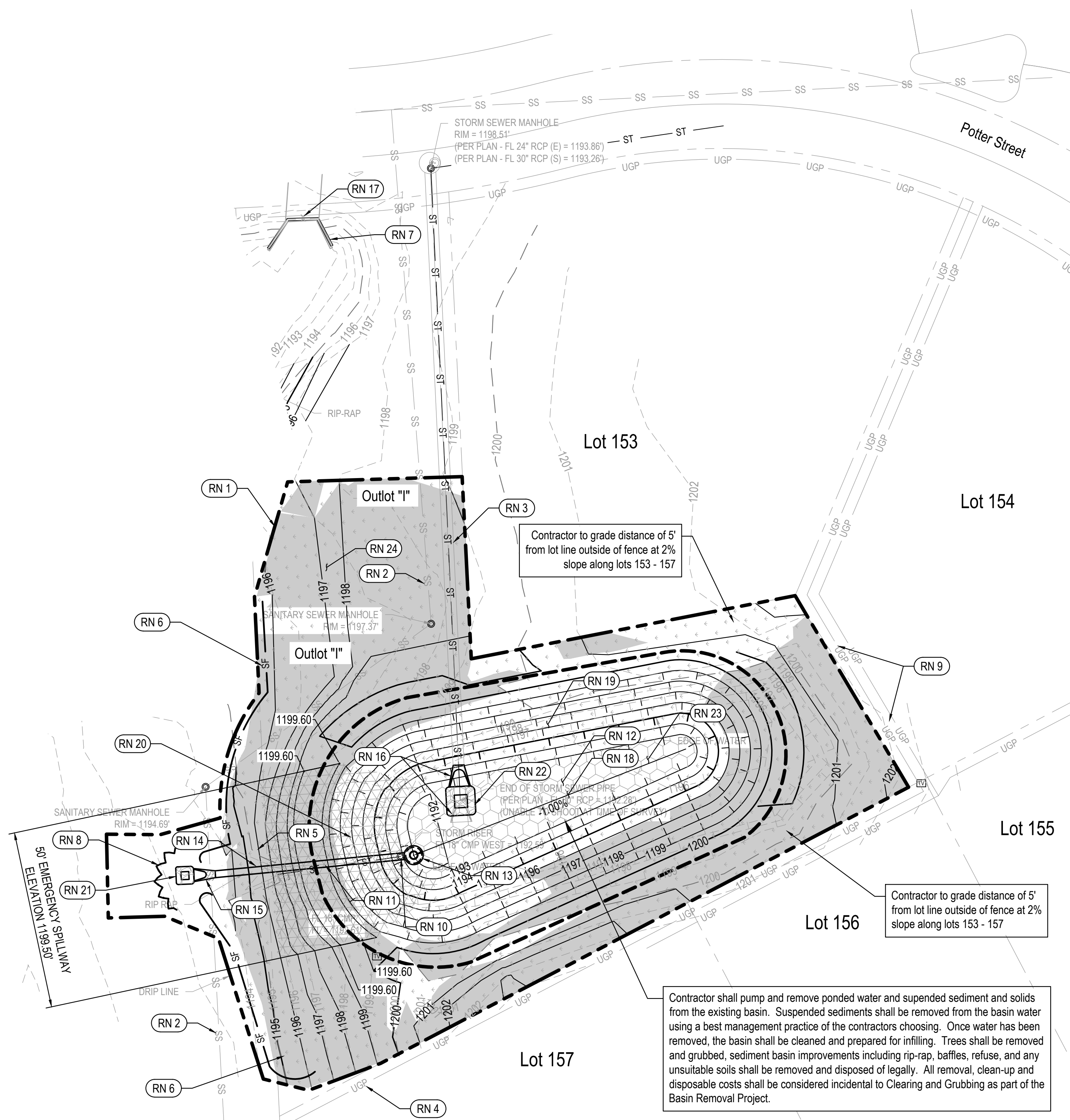
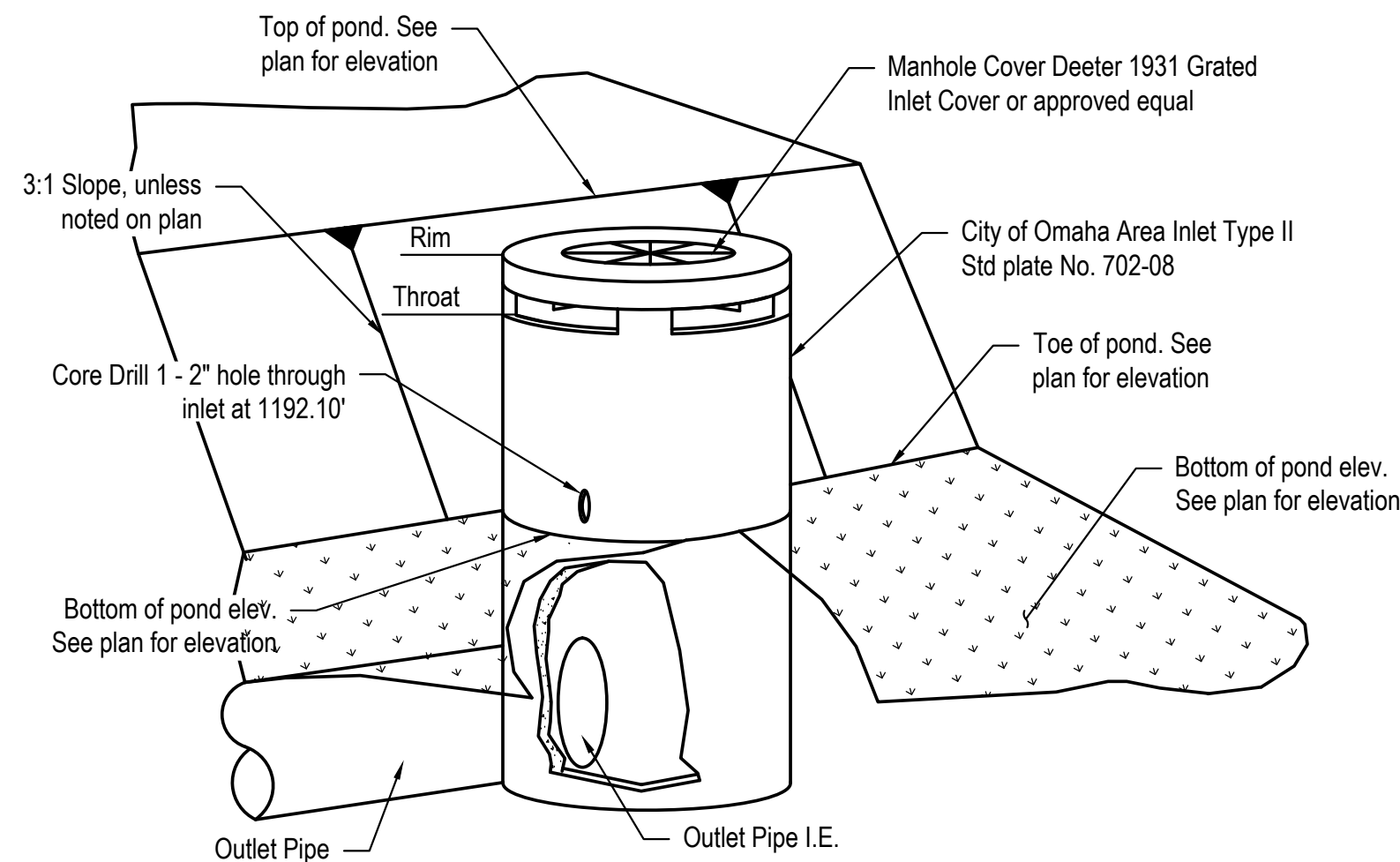


PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

NO REFERENCE NOTES

- RN 1 Access to Sediment Basin 4 site area thru Sediment Basin 7 site area, silt fence to be modified for access (subsidiary to construction entrance)
- RN 2 Existing sanitary sewer
- RN 3 Existing storm sewer
- RN 4 Underground power line
- RN 5 Drip line
- RN 6 Install silt fence (J-hooks every 100 ft) 152 LF. (total this sheet) - See sheet 3 for detail
- RN 7 Existing culvert
- RN 8 Install straw wattle, 22 LF
- RN 9 Protect trees along perimeter of grading limits (subsidiary)
- RN 10 Remove CMP riser structure and base, 1 EA
- RN 11 Remove 18" CMP, 60 LF
- RN 12 Remove temporary sediment basin - See sheet 3 for detail
- RN 13 Construct 54" Type II Area Inlet, modified - See basin outlet detail , 1 EA
- RN 14 Construct 18" RCP, 56 LF, contractor to verify flowline - See profile sheet 14 for details. Construct Anti-seep collar at location 28 feet from Area Inlet structure (subsidiary) - See sheet 3 for detail
- RN 15 Construct 18" FES, 1 EA, contractor to verify flowline - See profile sheet 14 for details. (pipe couplers on first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary)
- RN 16 Remove 30" RCP, 10 LF. Remove and relay 30" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 30" concrete collar, 1 EA, (if required) - See profile sheet 14 for details
- RN 17 Existing fence
- RN 18 Excavate, dry and re-compact silt or haul off site, 140 CY
- RN 19 Reshape bank to match proposed contours (3:1 slope max.)
- RN 20 Emergency spillway, 50 LF, install Type A Seed & North American Green VMAX C350, 209 SY, installed per manufacturer's recommendation.
- RN 21 Construct preformed rip-rap scour hole, 2 TN Type A, 7 SY filter fabric - See sheet 3 for detail
- RN 22 Construct preformed rip-rap scour hole, 6 TN Type A, 13 SY filter fabric - See sheet 3 for detail
- RN 23 Seed and mat bottom of basin with Rain Garden Mix, 173 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 24 Install Type A seed & North American Green S150 Matting - Planting method shall be per manufacturer's recommendation, 1,733 SY.

Note:
 To receive final PCSMP approval the construction of all PCSMP BMP's is required to be certified by E&A Consulting Group. Contractor shall contact Randall Pierce of E&A Consulting Group (402-709-3085 office / 402-510-1321 cell) a minimum of 48 hours prior to starting construction on any PCSMP BMP.



- LEGEND**
- Power Pole
 - Guy Wire
 - Light Pole
 - Fire Hydrant
 - Utility Valve (Water)
 - Utility Valve (Gas)
 - Curb Inlet
 - Manhole
 - Flared End Section
 - Sign
 - Power Riser
 - Telephone Riser
 - Tree
 - Building
 - X-X- Fence Line
 - G-G- Gas Line
 - UGW-UGW- Water Line
 - Existing Storm Sewer
 - ST-ST- Storm Sewer Line
 - SS-SS- Sanitary Sewer Line
 - OHP-OHP- Power Line (Overhead)
 - UGP-UGP- Underground Power Line
 - UGE-UGE- Underground Electrical Line(s)
 - UGC-UGC- Underground Cable Communication Line (Telephone, TV)
 - 1120- Existing Contours
 - 1170- Proposed Contours
 - Wattles
 - SF Silt Fence
 - Limits of Construction
 - PCSMP Basin Perimeter
 - Fill Areas
 - Rip-Rap Scour Hole (see detail sheet 3)
 - Seed and Mat Disturbed Area (see Reference Note 24 this sheet)
 - Seed and Mat Emergency Spillway (see Reference Note 20 this sheet)
 - Seed and Mat - Rain Garden Mix with the following species:
 - Virginia Wildrye 4 PLS lbs per acre
 - Canada Wildrye 3 PLS lbs per acre
 - Prairie Dropseed 0.25 PLS lbs per acre
 - Fowl Bluegrass 1.25 PLS lbs per acre
 - Blue Vervain 0.25 PLS lbs per acre
 - Sweet Blackeyed Susan 0.05 PLS lbs per acre
 - Fox Sedge 0.4 PLS lbs per acre
 Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 23 this sheet)

UTILITIES NOTE:
 THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKING BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES.

DRY DETENTION BASIN NOTES											
SEDIMENT BASIN 4 PCSMP BASIN 5	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	OUTLET PIPE DIAMETER	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME		
				RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
OUTLOT "I"	1192'	1200'	18"	TYPE II AI (54") Modified	1197.60'	1198.60'	1199.60'	50'	8.36	15,174	15,251

PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

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 State of NE Certificate of Authorization #CA0008

ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S.D. 657
 OMAHA, NEBRASKA

SEDIMENT BASIN 4 -
 PLAN

Proj No: P2015.036.017
 Date: 10/10/2024
 Designed By: JUN
 Drawn By: JUN
 Scale: AS SHOWN
 Sheet: 13 of 16

Revisions

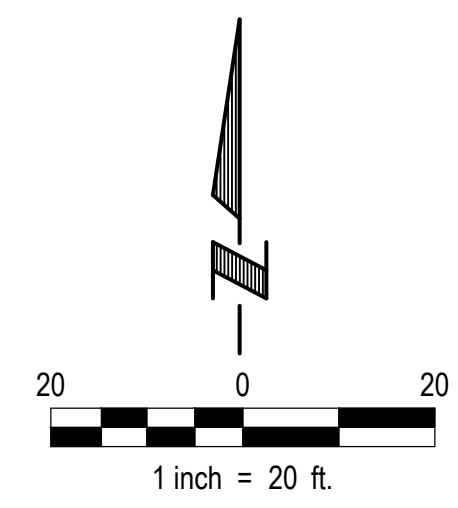
Rev	Date	Description

CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P8	A3	F8	18"	III	56.00	0.50%	Construct Anti-Seep Collar at 28' from Area Inlet (subsidiary)

CONSTRUCT FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F8	0+25.81	18"	FL = 1191.72 (18")	N: 567460.19 E: 2688014.07	(Pipe Couplers subsidiary) Construct foundation (subsidiary)

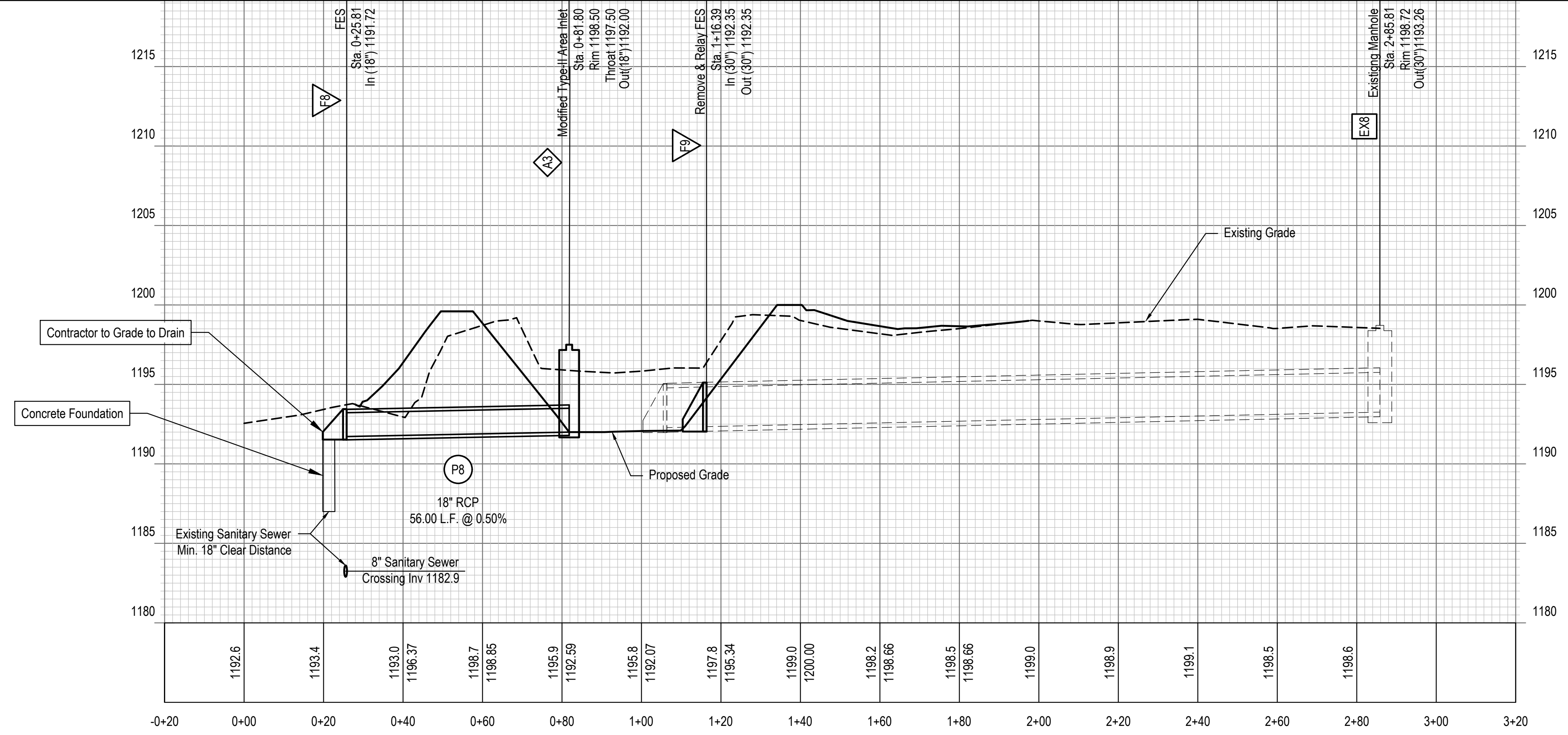
REMOVE AND RELAY FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F9	1+16.39	30"	FL = 1192.35 (30") FL = 1192.35 (30")	N: 567490.85 E: 2688082.41	Remove & Relay FES (Pipe Couplers subsidiary) Construct 30" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)

CONSTRUCT AREA INLET						
ID	Storm Sta.	Description (Type)	Details	Northing	Easting	Remarks
A3	0+81.80	II (54" I.D.)	RIM = 1198.50 THROAT = 1197.50 INV OUT = 1192.00 (18")	567242.96	2687015.55	Modified - See Basin Outlet Detail on Sheet 13



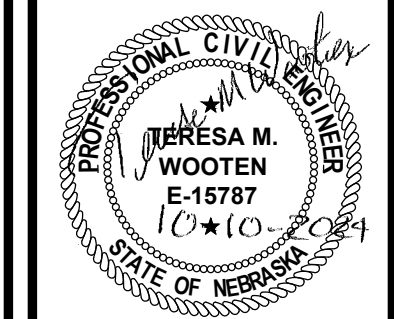
SEDIMENT BASIN 4 - PCSMP BASIN 5

Scale: Horiz. 1"=20'
Vert. 1"=5'



PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Proj No.	Date	Designed By	Drawn By	Scale	Sheet
P2015.036.017	10/10/2024	JUN	JUN	AS SHOWN	14 of 16



SEDIMENT BASIN 4 -
PROFILE

ANCHOR POINT
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S/D: 687
 OMAHA, NEBRASKA

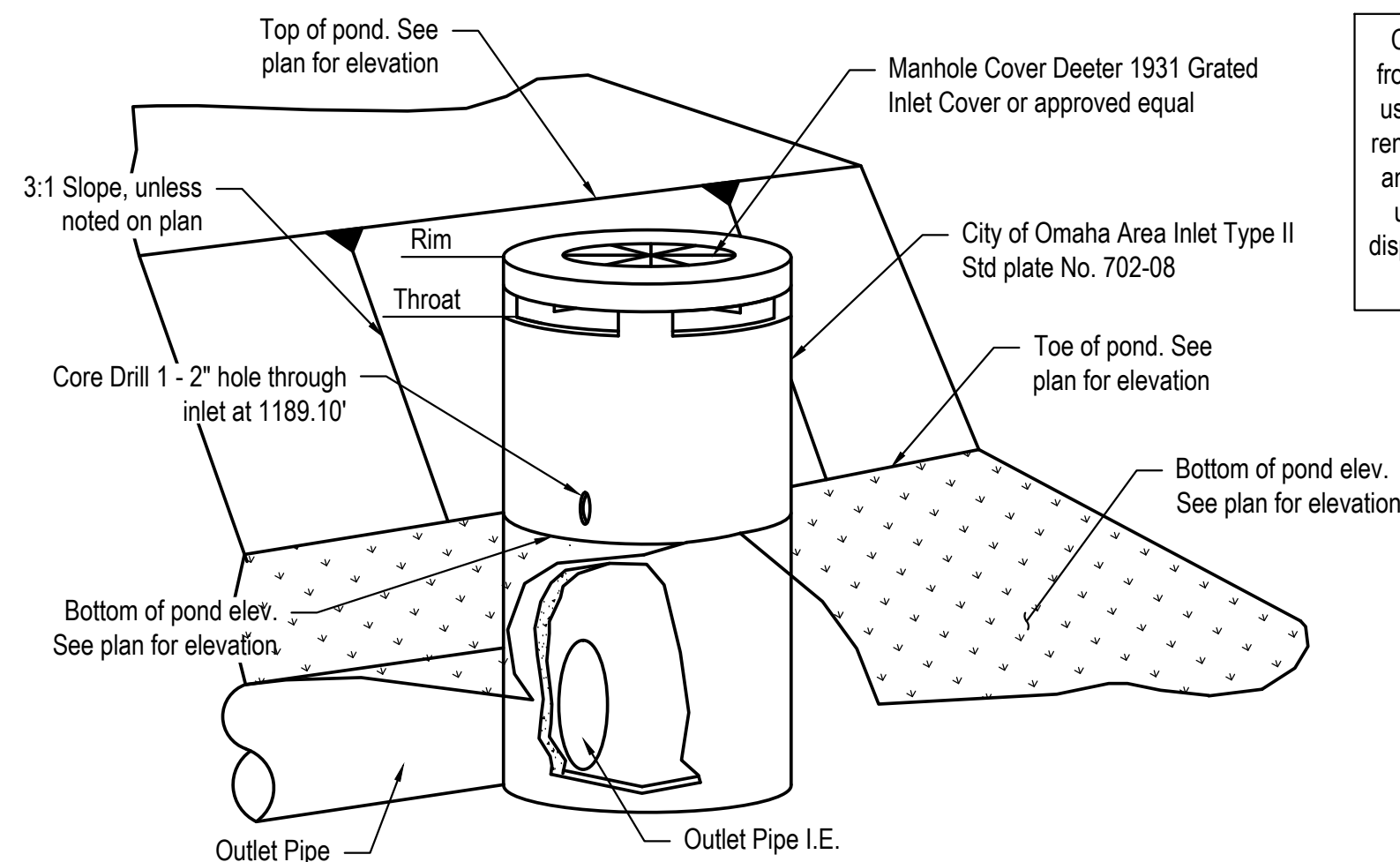


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NO REFERENCE NOTES

- RN 1 Install, maintain & remove construction entrance, 1 EA
 - RN 2 Install silt fence (J-hooks every 100 ft) 139 LF, (total this sheet) - See sheet 3 for detail
 - RN 3 Install curb inlet protection, 3 EA (total this sheet)
 - RN 4 Install straw wattle, 339 LF
 - RN 5 Protect utility cluster
 - RN 6 Remove CMP riser structure and base, 1 EA
 - RN 7 Remove 24" CMP, 52 LF
 - RN 8 Remove temporary sediment basin - See sheet 3 for detail
 - RN 9 Construct 54" Type II Area Inlet, modified - See basin outlet detail, 1 EA
 - RN 10 Construct 30" RCP, 56 LF, contractor to verify flowline - See profile sheet 16 for details. Construct Anti-seep collar at location 30 feet from Area Inlet structure (subsidiary) - See sheet 3 for detail
 - RN 11 Construct 30" FES, 1 EA, contractor to verify flowline - See profile sheet 16 for details. (pipe couplers on first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary)
 - RN 12 Remove 42" RCP, 8 LF. Remove and relay 42" FES, 1 EA (pipe couplers on the first 3 sections from flared end, per Standard Plate 700-04, 3 couplers per joint, subsidiary). Construct 42" concrete collar, 1 EA, (if required) - See profile sheet 16 for details
 - RN 13 Existing curb drops for 6' wide ramp
 - RN 14 Construct Curb Ramp per Standard Plate 504-01, ramp thickness to match adjacent roadway thickness, 32 SF, with detectable warning panel, 2' x 4', 8 SF.
 - RN 15 Construct 5' wide 4" PCC Sidewalk, 1,862 SF, jointed in 5'x5' panels
 - RN 16 Contractor shall abut proposed sidewalk to existing sidewalk with thickened edge. Install expansion joint at connection. Adjust elevation as needed to match existing grade. (subsidiary of sidewalk) Barricading sidewalk closure required (subsidiary).
 - RN 17 Excavate, dry and re-compact silt or haul off site, 215 CY
 - RN 18 Reshape bank to match proposed contours (3:1 slope max.)
 - RN 19 Emergency spillway, 30 LF, install Type A Seed & North American Green VMAX C350, 106 SY, installed per manufacturer's recommendation.
 - RN 20 Construct preformed rip-rap scour hole, 10 TN Type A, 20 SY filter fabric - See sheet 3 for detail
 - RN 21 Construct preformed rip-rap scour hole, 6 TN Type A, 14 SY filter fabric - See sheet 3 for detail
 - RN 22 Seed and mat bottom of basin with Rain Garden Mix, 292 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
 - RN 23 Install Type A seed & North American Green S150 Matting - Planting method shall be per manufacturer's recommendation, 3,712 SY.
 - RN 24 Protect existing landscaping (subsidiary)
 - RN 25 Protect existing fence (subsidiary)
 - RN 26 Remove existing 48" CMP, 32 LF
 - RN 27 Contractor to verify flowline of low point and grade to drain with 30 ft wide access road @ 0% cross slope - See profile sheet 16 for details
 - RN 28 Install GEOWEB GW20V Geocells - construction method shall be per manufacturer's recommendation, 900 SF, approximately 30' x 30'. The 6" excavation, 1" clean limestone infill, and subgrade prep are subsidiary.
- Note: All subgrade preparation related to sidewalk and curb ramp construction is subsidiary to the sidewalk and curb ramp bid items.

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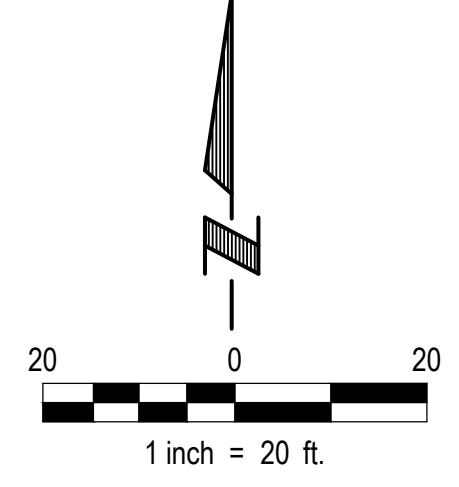
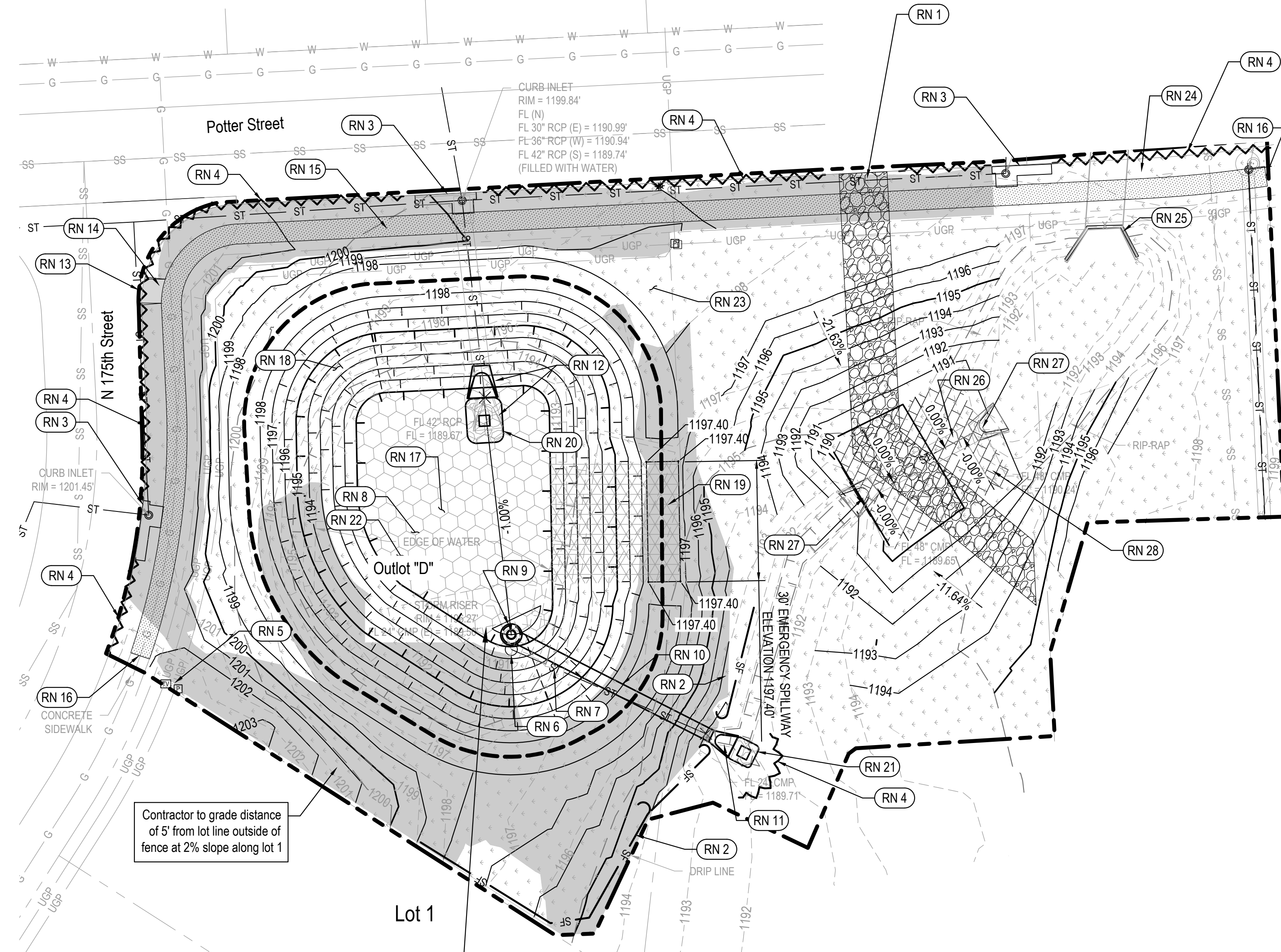


Contractor shall pump and remove ponded water and suspended sediment and solids from the existing basin. Suspended sediments shall be removed from the basin water using a best management practice of the contractors choosing. Once water has been removed, the basin shall be cleaned and prepared for infilling. Trees shall be removed and grubbed, sediment basin improvements including rip-rap, baffles, refuse, and any unsuitable soils shall be removed and disposed of legally. All removal, clean-up and disposable costs shall be considered incidental to Cleaning and Grubbing as part of the Basin Removal Project.

UTILITIES NOTE:
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DRY DETENTION BASIN NOTES

SEDIMENT BASIN 7 PCSMP BASIN 6	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	OUTLET PIPE DIAMETER	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME		
				RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
OUTLOT "D"	1189'	1198'	30"	TYPE II AI (54") Modified	1195.60'	1196.60'	1197.40'	30'	11.44	20,764	26,702



LEGEND

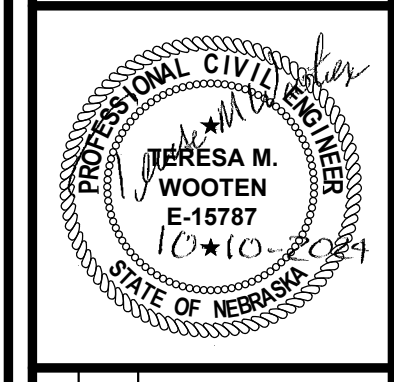
- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Utility Valve (Gas)
- Curb Inlet
- Manhole
- Flared End Section
- Sign
- Power Riser
- Telephone Riser
- Tree
- Building
- Fence Line
- Gas Line
- Water Line
- Existing Storm Sewer
- Proposed Storm Sewer
- Storm Sewer Line
- Sanitary Sewer Line
- Power Line (Overhead)
- Underground Power Line
- Underground Electrical Line(s)
- Underground Cable Communication Line (Telephone, TV)
- Existing Contours
- Proposed Contours
- Wattles
- Silt Fence
- Limits of Construction
- PCSMP Basin Perimeter
- Fill Areas
- Construction Entrance
- Sidewalk (see Reference Note 15 this sheet)
- Curb Ramp (see Reference Note 14 this sheet)
- Rip-Rap Scour Hole (see detail sheet 3)
- Seed and Mat Disturbed Area (see Reference Note 23 this sheet)
- Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 19 this sheet)
- Seed and Mat - Rain Garden Mix with the following species:
 - Virginia Wildrye 4 PLS lbs per acre
 - Canada Wildrye 3 PLS lbs per acre
 - Prairie Dropseed 0.25 PLS lbs per acre
 - Fowl Bluegrass 1.25 PLS per acre
 - Blue Vervain 0.25 PLS lbs per acre
 - Sweet Blackeyed Susan 0.05 PLS lbs per acre
 - Fox Sedge 0.4 PLS lbs per acre
- Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 22 this sheet)
- GEOWEB GW20V Geocells (see Reference Note 28 this sheet)

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ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S.D. 657
 OMAHA, NEBRASKA

SEDIMENT BASIN 7 - PLAN



Revisions	Description	Date
1	Initial Design	10/10/2024

Proj No: P2015.336.017
 Date: 10/10/2024
 Designed By: JUN
 Drawn By: JUN
 Scale: AS SHOWN
 Sheet: 15 of 16

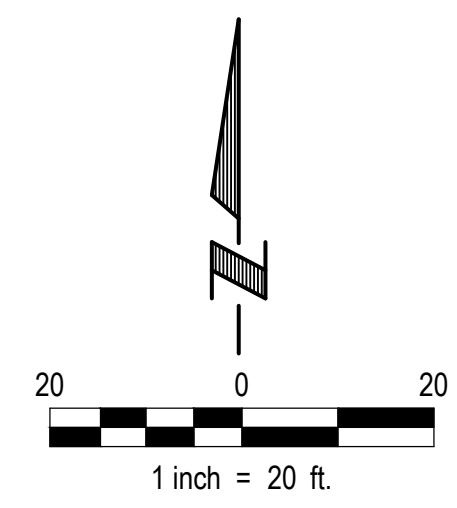
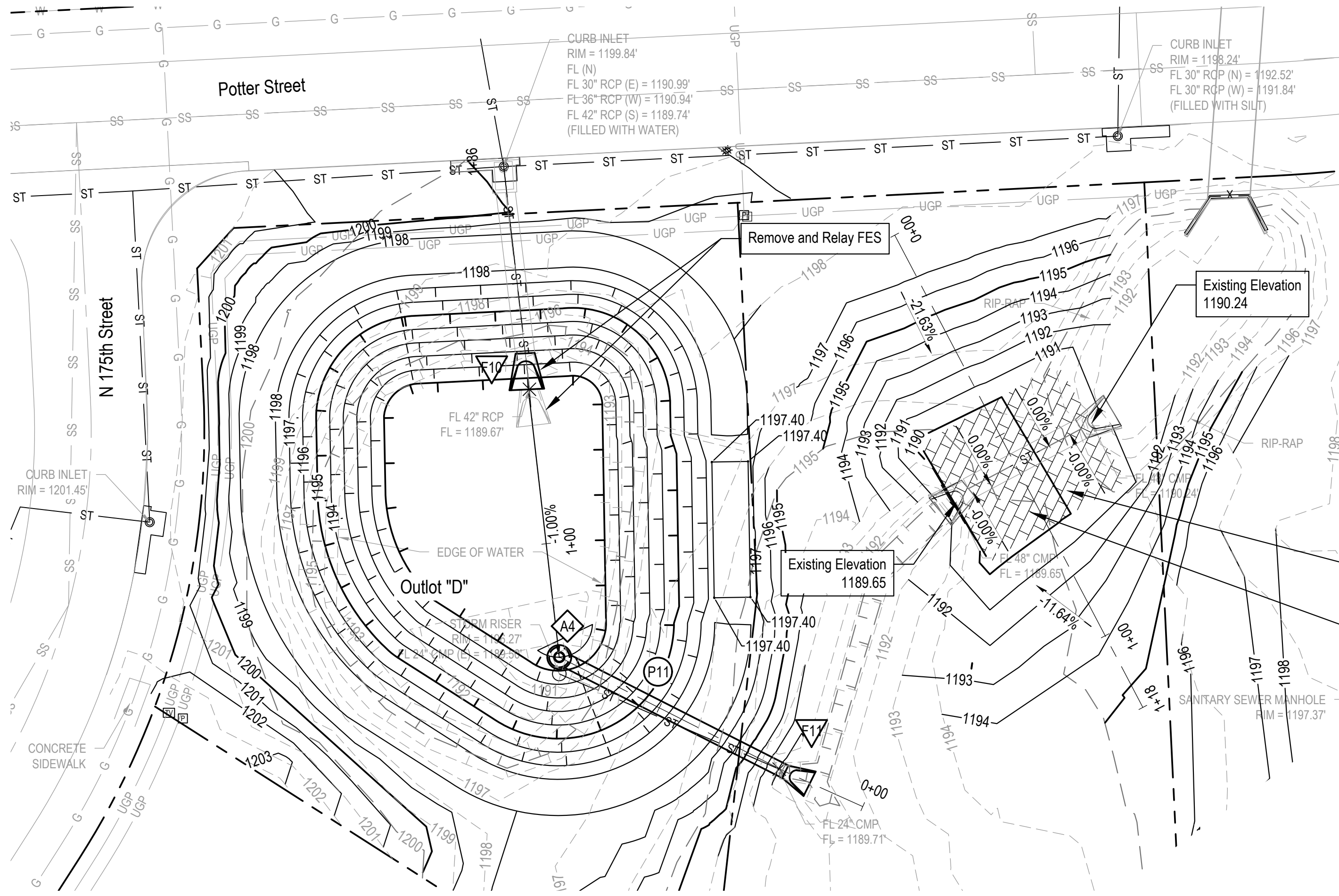
PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

CONSTRUCT FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F11	0+18.77	30"	FL = 1188.72 (30")	N: 567517.14 E: 2687940.47	(Pipe Couplers subsidiary) Construct foundation (subsidiary)

REMOVE AND RELAY FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F10	1+42.34	42"	FL = 1189.68 (42") FL = 1189.68 (42")	N: 567609.62 E: 2687882.96	Remove & Relay FES (Pipe Couplers subsidiary) Construct 42" Concrete Collar (as needed for FES re-use) Construct foundation (subsidiary)

CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P11	A4	F11	30"	III	56.00	0.50%	Construct Anti-Seep Collar at 30' from Area Inlet (subsidiary)

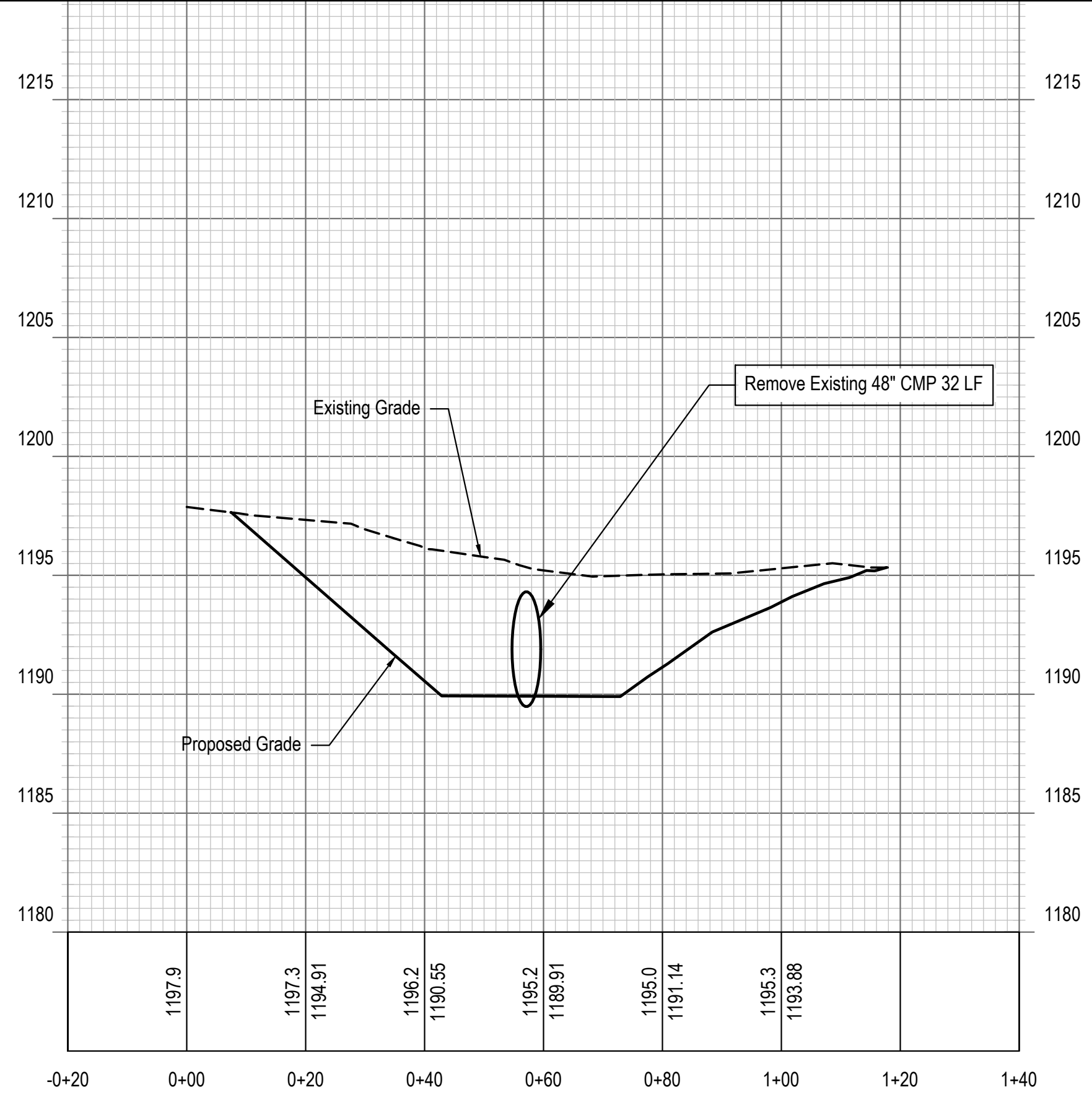
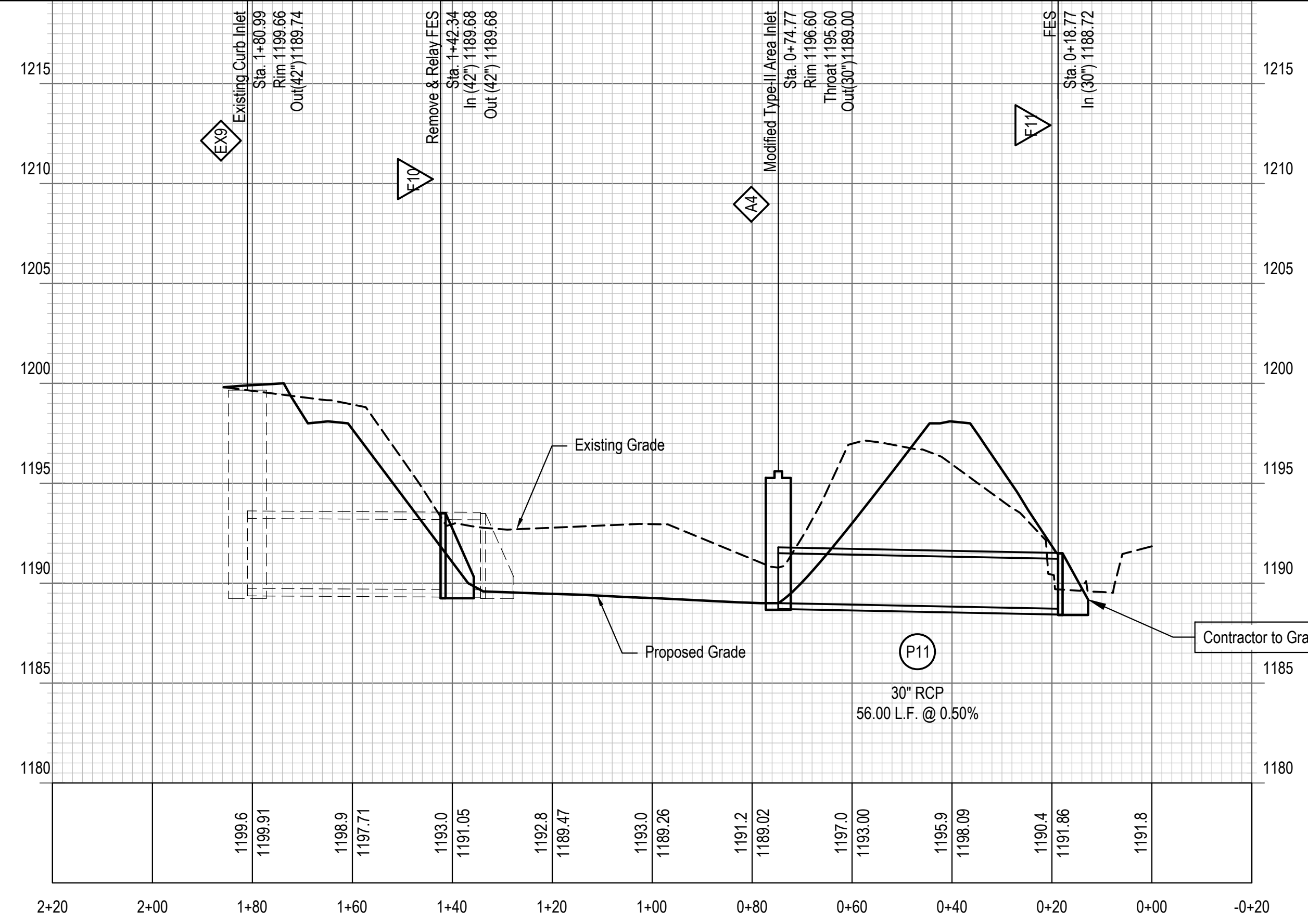
CONSTRUCT AREA INLET						
ID	Storm Sta.	Description (Type)	Details	Northing	Easting	Remarks
A4	0+74.77	II (54" I.D.)	RIM = 1196.60 THROAT = 1195.60 INV OUT = 1189.00 (30")	567319.89	2686836.34	Modified - See Basin Outlet Detail on Sheet 15



SEDIMENT BASIN 7 - PCSMP BASIN 6

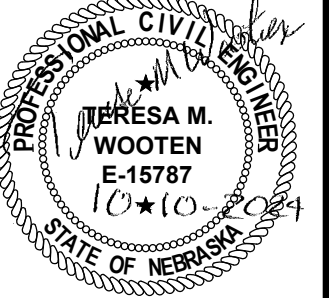
EXISTING 48" CMP - ACCESS ROAD

Scale: Horiz. 1"=20'
Vert. 1"=5'



PCWP OMA-20150127-2710-P PROJECT TYPE: PCSMP

Revisions	Date	Description
1	10/10/2024	DESIGNED BY: JUN
2		DRAWN BY: JUN
3		SCALE: AS SHOWN
4		SHEET: 16 OF 16



SEDIMENT BASIN 7 - PROFILE

ANCHOR POINTE
 SEDIMENT BASINS 2, 2B,
 3, 4, & 7 CONVERSION
 S.D. 687
 OMAHA, NEBRASKA



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