

ADDENDUM NO. 2

TO

POLYTECH HIGH SCHOOL
RENOVATIONS AND ADDITIONS
BID PACKAGE 'A'

This addendum is hereby made part of the Project Manual and Drawings dated 9 July 2012.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~strikethrough~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

THE BID OPENING DATE REMAINS UNCHANGED. ALL BIDS ARE DUE AT THE POLYTECH SCHOOL DISTRICT OFFICE, NO LATER THEN 2:00 PM ON THURSDAY 9 AUG 12.

THE LAST DAY FOR QUESTIONS WAS THURSDAY 2 AUG 12.

Addendum No. 2 – Consists of the following:

- I. Responses to Bidders' Questions

- II. Revisions to Project Manual/Specifications:
 - Section 000115 – List of Drawings
 - Section 004100 – Bid Forms
 - Section 011100 – Summary of Work
 - Section 012300 – Alternates

- III. Revisions to Drawings
 - C-102 Demolition Plan
 - C-103 Demolition Plan
 - C-300 Overall Sanitary Sewer Plan
 - C-301 Utility Plan
 - C-302 Utility Plan
 - C-303 West Side Pump Station Plans, Sections and Notes
 - C-401 Grading Plan
 - C-402 Grading Plan
 - E-302 Pump Station Electrical Site Plan
 - E-303 Pump Station Electrical Control Panel

I. RESPONSES TO BIDDERS QUESTIONS

Copies of RFI's 1, 2, & 3 are attached hereto.

II. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS

A. Section 000115 – List of Drawings

1. CHANGE the Latest Revision Date for drawing E-302 from 8 Jun 12 to 3 Aug 12.
2. ADD new Drawing E-303 Pump Station Electrical Control Panel with Issue Date of 8 Jun 12 and Latest Revision Date of 3 Aug 12.

B. Section 004100 – Bid Forms

1. DELETE this section in its entirety and INSERT new Section 004100 Bid Form showing the addition of Alternate No. 9 Remove Existing Mound Septic System, annotated Addendum No. 2, dated 6 Aug 12.

C. Section 011100 – Summary of Work - Contract A-1 Sitework & Landscaping

1. DELETE bullet 1-20 on page 011100-9 in its entirety and INSERT revised bullet:

“1-20 The Sitework Contractor is responsible for all of the General Construction Notes on drawings C-201 & C-202, except notes **G-8, G-9, G-13, G-22, G-28, G-31, G-33, & G-34**”.

2. DELETE bullet 1-23 on page 011100-9 in its entirety and INSERT revised bullet:

“1-23 All utilities shall be brought to within +/- 3 feet of the building line by this Contractor. This Contractor will be connecting the new utilities to the existing utilities, so as not to disrupt services, **as shown on drawings P300 and P301**. The connection of the other utilities from +/- 3 feet and into the building shall be by others.”

3. CHANGE the square footage of stone base in bullet number 1-34 from 10,000 to 15,000 linear feet on page 011100-10.

4. ADD the following sentences to the end of bullet number 1-36 on page 011100-10:

“The utility relocations discussed in notes R21, R22, R23, and R25 will be performed by the utility companies and is not the responsibility of the Sitework Contractor. The Sitework Contractor will coordinate and cooperate with the utility companies while the work is being performed”

5. INSERT the following NEW bullets after bullet number 1-66 on page 011100-13:

“1-66.a Provide 12” PVC storm pipe under the slab to connect SD-27 to SD-26. This work will include the cleanout and fittings for the laterals to serve the rainwater conductors (RWC). The lateral piping for the RWC's will be installed by others in bid package B.

1-66.b Provide sanitary sewer under the slab to connect the existing sanitary sewer to new sanitary sewer pipe SS-3 near the south entrance. This work will include the cleanout and fittings for the laterals to serve floor drains and other fixtures. The lateral piping, floor drains and other fixtures will be installed by others in bid package B.

1-66.c Provide 10" PVC storm pipe under the slab to the existing storm drain to SD-52. This work will include the cleanout and fittings for the laterals to serve the rainwater conductors (RWC). The lateral piping for the RWC's will be installed by others in bid package B.

1-66.d Provide sanitary sewer under the slab to connect the existing sanitary sewer to new sanitary sewer pipe SS-12. This work will include the cleanout and fittings for the laterals to serve future piping. The lateral piping and other fixtures will be installed by others in bid package B.

1-66.e Provide pipe sleeves and seals at all pipes, installed by this contractor that will be penetrating foundation walls to be constructed in bid package B."

6. DELETE bullet 1-73 on page 011100-13 in its entirety and INSERT revised bullet:

"1-73 This Contractor is responsible for all of the Electric Construction Notes on drawings C-301 & C-302, except note UE-2. The **new** site lighting will be the responsibility of Electrical Contractor **to be hired in bid package B. The new yard lights at the North and West Pump Stations will be part of the work in bid package A.**"

7. INSERT the following NEW bullets after bullet number 1.73 on page 011100-13:

"1-73.a Provide 9 – 4" PVC conduits with pull cords for future electrical service at the location shown on drawing E-300. The conduits shall be encased in concrete at road locations.

1-73.b Relocate the existing electrical sign near the west entrance, per note 6 on drawing E-100.

1.73.c The Sitework Contractor will remove and store the existing lights as described in notes 1 & 2 on drawings E100 & E101. The lights will be re-installed by the Electrical Contractor to be hired in bid package B. All other demolition will be performed by the Sitework Contractor.

1-73.d Rebuild the electrical service to the North and West Pump Stations as shown on drawings E-302 and E-303.

1-73.e Provide 1" underground conduit with CAT6 cable for telephone service from the West Pump Station to the telephone service connection in the kitchen area as shown

on drawing E302. Patch the trench per the asphalt details shown on the civil drawings.”

D. Section 012300 - Alternates

1. DELETE page 012300-3 in its entirety and INSERT revised page 012300-3, showing the addition of Alternate No. 9 Remove Existing Mound Septic System, annotated Addendum No. 2, dated 6 Aug 12.

III. REVISIONS TO DRAWINGS

- A. **C-102 Demolition Plan** - Drawing revised as indicated on sketches CSK039, CSK040, CSK041, and CSK042 and included with this addendum.
- B. **C-103 Demolition Plan** - Drawing revised as indicated on sketches CSK043, CSK044, CSK052, CSK053, and CSK054 and included with this addendum.
- C. **C-300 Overall Sanitary Sewer Plan** - Drawing revised as indicated on sketch CSK036 and included with this addendum.
- D. **C-301 Utility Plan** - Drawing revised as indicated on sketches CSK048 and CSK049 and included with this addendum.
- E. **C-302 Utility Plan** - Drawing revised as indicated on sketches CSK050, CSK051, CSK055, CSK056, and CSK057 and included with this addendum.
- F. **C-303 West Side Pump Station Plans, Sections and Notes** - Drawing revised as indicated on sketch CSK047 and included with this addendum.
- G. **C-401 Grading Plan** - Drawing revised as indicated on sketches CSK037 and CSK045 and included with this addendum.
- H. **C-402 Grading Plan** - Drawing revised as indicated on sketches CSK038 and CSK046 and included with this addendum.
- I. **E-302 Pump Station Electrical Site Plan** – DELETE drawing E-302 in its entirety and INSERT revised drawing E-302, annotated addendum no.2, with latest revision date of 3 Aug 12.
- J. **E-303 Pump Station Electrical Control Panel** – INSERT new drawing E-303 annotated addendum no. 2, with latest revision date of 3 Aug 12.

END OF ADDENDUM NO. 2



REQUEST FOR INFORMATION

TO: MIKE RIEMANN/MIKE HENRY, BECKER MORGAN GROUP RFI#: 1

FROM: CHRISTIAN J. MCCONE DATE: 31 JUL 12

PROJECT: POLYTECH HIGHSCHOOL RENOVATIONS & ADDITIONS – BID PACK 'A'

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

1. Ref Plan Sheet C-001, Note 12, under general notes, what permits do we have to obtain?
2. Ref Plan Sheet C-300, where we tie in to the existing MH it appears that there is a stub connection coming out the MH. Does that stub exist?
3. On Storm Drain Pipe Schedule on Plan Sheet C-401, why does sd-9 say w/FES? There is no FES shown on the plans at this location.
4. MH 9 & 10 on Plan Sheet C-300 and Plan Sheet C-302 do not agree in MH number. Please clarify which is correct.

Submitted By: DAISY CONSTRUCTION Date: 31 JUL 12

RESPONSE:

1. The CM will obtain the demolition and building permits and the DelDOT permit. The Sitework contractor will obtain the plumbing permit and electric permit associated with the work under their contract.
2. The manhole and stub shown as existing are part of the Kent County Sewer extension to the property and have not been constructed yet, but will be installed prior to start of sewer construction on this project. The stub will be installed as part of the sewer extension by Kent County.
3. No FES is required. See CSK037 and CSK038 which are attached and will be issued as part of Addendum 2
4. Sheet C-302 is correct. Sheet C-300 will be revised. See CSK036 which is attached and will be issued as part of Addendum 2

Response By: EDiS / Becker Morgan Group Date: 31 Jul 12



REQUEST FOR INFORMATION

TO: MIKE RIEMANN/MIKE HENRY, BECKER MORGAN GROUP RFI#: 2

FROM: CHRISTIAN J. MCCONE DATE: 2 AUG 12

PROJECT: POLYTECH HIGHSCHOOL RENOVATIONS & ADDITIONS – BID PACK 'A'

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

1. Ref bedding detail shown on plan sheet C-902 for PVC sanitary sewer. Is the granular bedding material the existing trench material or is this off-site material?
2. Ref Type B and Type B modified catch basins which are placed along the ne curb line (CB#10 for example). The typical section for Type B and Type B modified catch basins shows a flat slab top with the frame and grate cast in the top. Does the new curb in this area just sit on top of the slab top?
3. Are the details for the 34" x 24" and 72" x 24" (even though your plans say 74" x 24") to meet DELDOT specs?

Submitted By: DAISY CONSTRUCTION Date: 1 AUG 12

RESPONSE:

1. Granular bedding shall be offsite material.
2. No, the curb sits at edge of slab top.
3. Yes, basins are to meet DelDOT specs. See CSK045 & CSK046 correcting 74"x24" Basin to 72"x24"

Response By: Becker Morgan Group Date: 3 August 12



REQUEST FOR INFORMATION

TO: MARTIN DUSBIBER, DALLC RFI#: 3
FROM: CHRISTIAN J. MCCONE DATE: 2 AUG 12
PROJECT: POLYTECH HIGH SCHOOL RENOVATIONS & ADDITIONS – BID PACK 'A'
DWG. # / DETAIL: E-302 SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

1. Dwg E-302 shows 2#8 + 1#10 GND in 1" conduit and (2) 1" conduit spares between the East Pump Station and the existing building. General Note 3 states "Contractor shall reconnect existing feeder conductors and conduit to the new control panel and pumps." The panel detail shows the existing conduits and conductors. Are new conduits and conductors required or do we use the existing conduits and conductors? If new conductors are required, where does the contractor make the connection in the building?
2. Should the 9 - 4" conduits that run to the new transformer pad be in-cased in concrete?

Submitted By: EDiS Company Date: 2 AUG 12

RESPONSE:

1. Refer to Addendum #2.
2. The (9) 4" conduits should be incased in concrete only ay road locations.

Response By: William J Slusser – furlow associates, Inc. Date: 8/3/12

CONTRACT A-1 SITEWORK & LANDSCAPING
BID FORM

For Bids Due: _____ To: Polytech School District
823 Walnut Shade Road
Woodside, DE 19980

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

Phone No.: () _____ - _____ Fax No.: () _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES (Bidders must review Section 012300 Alternates for a complete description of alternates)

Alternate No. 1: Multi-Purpose Addition

Add _____ (\$ _____)

Alternate No. 2: West Parking Lot Addition

Add _____ (\$ _____)

Alternate No. 3: Area A - Pavement Repair, Mill and Overlay

Add _____ (\$ _____)

Alternate No. 4: Area B - Pavement Repair

Add _____ (\$ _____)

Alternate No. 5: Area C - Pavement Repair, Mill and Overlay

Add _____ (\$ _____)

Alternate No. 6: Area D - Pavement Repair, Taper Mill Edges and Overlay

Add _____ (\$ _____)

Alternate No. 7: Area E - Pavement Repair, Taper Mill Edges and Overlay

Add _____ (\$ _____)

Alternate No. 8: Tennis Court Repair and Resurfacing

Add _____ (\$ _____)

Alternate No. 9: Remove Existing Mound Septic System

Add _____ (\$ _____)

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	<u>BULK</u>		<u>TRENCH</u>	
	<u>Add</u>	<u>Deduct</u>	<u>Add</u>	<u>Deduct</u>
1. Price per cubic yard for excavation and disposal of unsatisfactory material and furnishing select fill to include placing, compacting and finishing.	_____	_____	_____	_____
			<u>Add</u>	<u>Deduct</u>
2. Price per square foot for 4" concrete sidewalk and stone subbase.			_____	_____
3. Price per linear foot for concrete curb and stone subbase.			_____	_____
4. Price per linear foot for paving joint repair using pave prep or equal			_____	_____
5. Price per square yard for full depth patching of asphalt paving			_____	_____

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for ninety (90) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>
1. Sitework	_____	_____
2. Electrical	_____	_____
3. Plumbing	_____	_____
4. Concrete Curbs & Sidewalks	_____	_____
5. Fencing	_____	_____
6. Landscaping	_____	_____
7. Tennis Court Repairs & Resurfacing	_____	_____

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date

All the terms and conditions of **A-1 Sitework & Landscaping** have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____ NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

BID BOND

TO ACCOMPANY PROPOSAL
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: _____ of _____
_____ in the County of _____ and State of _____
_____ as Principal, and _____ of _____ in
the County of _____ and State of _____ as Surety,
legally authorized to do business in the State of Delaware (“State”), are held and firmly unto the **Polytech School District** in the sum of _____ Dollars (\$ _____), or
percent not to exceed _____ Dollars
(S _____) of amount of bid on Contract No. **A-1 Sitework & Landscaping** to be paid to
the **Polytech School District** for the use and benefit of the **Polytech School District** for which payment
well and truly to be made, we do bind ourselves, our and each of our heirs, executors, administrators.
and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has
submitted to the **Polytech School District** a certain proposal to enter into this contract for the furnishing
of certain material and/or services within the State, shall be awarded this Contract, and if said Principal
shall well and truly enter into and execute this Contract as may be required by the terms of this Contract
and approved by the **Polytech School District** this Contract to be entered into within twenty days after
the date of official notice of the award thereof in accordance with the terms of said proposal, then this
obligation shall be void or else to be and remain in full force and virtue.

Sealed with _____ seal and dated this ___ day of _____ in the year of our Lord
two thousand and _____ (20__).

SEALED, AND DELIVERED IN THE PRESENCE OF

Name of Bidder (Organization)

Corporate
Seal
Attest _____

By: _____
Authorized Signature

Title

Witness _____

Name of Surety

Title

CONSENT OF SURETY

DATE _____

To:

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By

(Attorney-in-Fact)

END OF SECTION

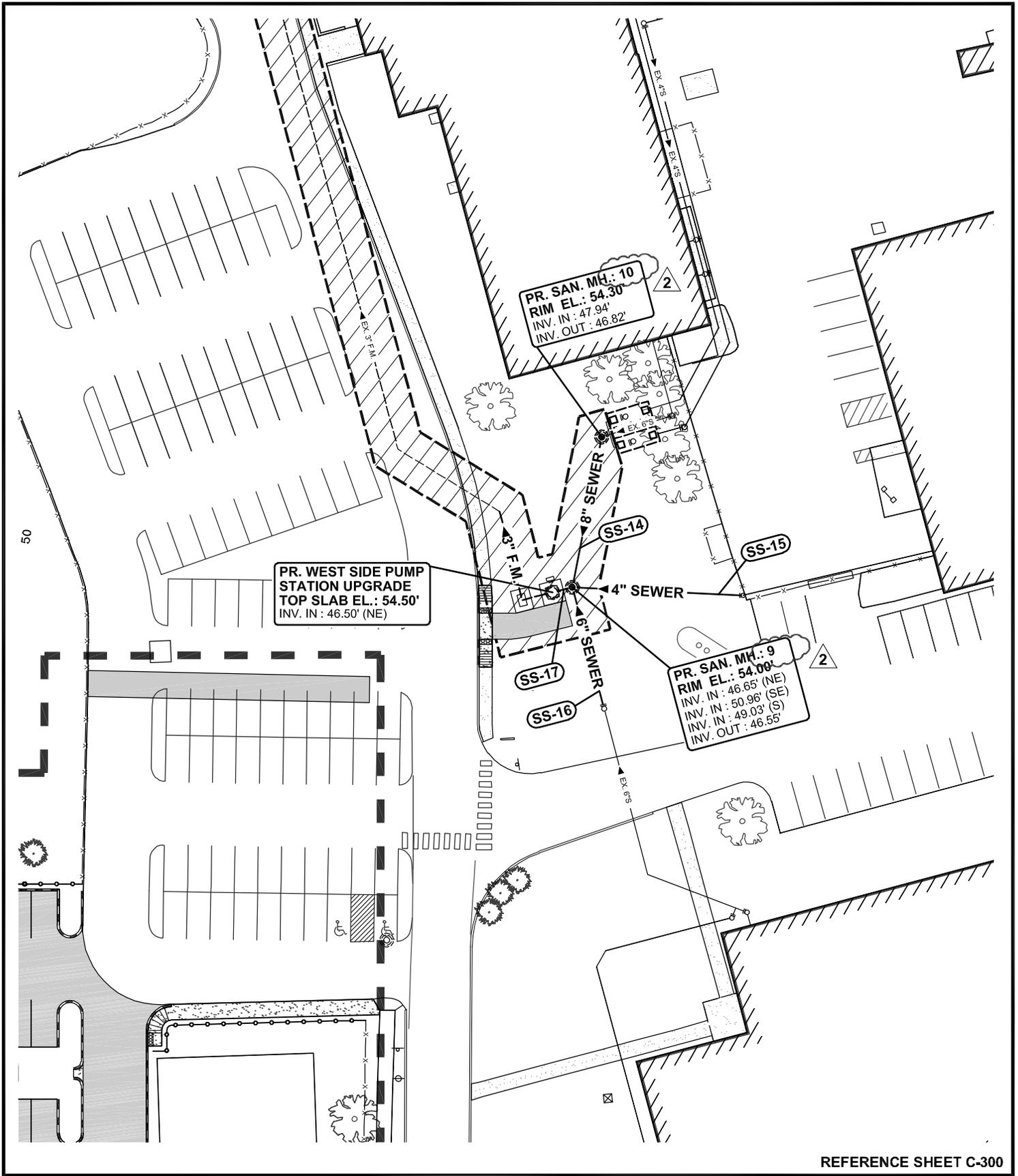
Alternate No. 8: Tennis Court Repairs and Resurfacing

- a. **Base Bid:** No work is required.
- b. **Alternate:** Includes but is not limited to, temporary removal of nets and tie-downs and securely storing during the work; cleaning courts to be free of grease, oil, dust, dirt, vegetation and other foreign matter; repair of all cracks per the plans and specifications; resurfacing of the court surface per the plans and specifications; protection of adjacent areas and structures (fences, posts, sidewalks, etc.) that are not to be coated; protection of new repairs and surfaces during curing periods; installation of new court striping per USTA and project specifications; final cleaning and removal of all construction debris, waste etc; and reinstallation of nets and tie-downs. **(ADDENDUM NO. 1)**

Alternate No. 9: Remove Existing Mound Septic System

- a. **Base Bid:** No work is required.
- b. **Alternate:** Includes but is not limited to removal of existing piping, infiltrator chambers, tanks, stone, observation ports, and soil down to 3' depth. If limits of septic system exceed 3' depth, the remainder of the system shall be removed at owner's expense (excludes sandy fill under system). After removal of septic fields and appurtenances the area shall be re-graded as shown on the construction plans. Contractor shall fill/grade as necessary to achieve proposed grades using common fill and topsoil. Area shall be seeded and stabilized per plans and specifications. Existing soil materials above the infiltrator chambers may be used as fill should it be found to be acceptable material by the project geotechnical engineer. Existing soil materials at or below the infiltrator chambers is deemed non suitable and shall be removed offsite.

END OF SECTION



REFERENCE SHEET C-300

LAYER STATE: C-300

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE



ARCHITECTURE
ENGINEERING
Dover, DE

309 S. Governors Ave.
Dover, DE 19904
Ph. 302.734.7950
Fax 302.734.7965

BMG: 2011081.00
SCALE: 1" = 50'
DATE: 8-3-12
DRAWN BY: M.J.H.

CSK036

STORM DRAIN PIPE SCHEDULE

PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INVERT IN	INVERT OUT
SD-1	15"	CLASS III R.C.P WITH FLARED END SECTION	32'	0.30%	48.93'	48.84'
SD-2	15"	CLASS III R.C.P	81'	0.25%	49.14'	48.93'
SD-3	15"	CLASS III R.C.P	80'	0.25%	49.35'	49.14'
SD-4	15"	CLASS III R.C.P	9'	0.35%	47.45'	47.42'
SD-5	15"	CLASS V R.C.P.	25'	0.31%	48.24'	48.16'
SD-5A	15"	CLASS V R.C.P.	20'	0.31%	48.30'	48.24'
SD-6	15"	CLASS III R.C.P	119'	0.25%	46.14	45.84
SD-7	15"	CLASS III R.C.P	117'	0.25%	46.43'	46.14'
SD-8	15"	CLASS III R.C.P	82'	0.25%	46.64'	46.43'
SD-9	15"	CLASS III R.C.P	79'	0.25%	46.84'	46.64'
SD-10	15"	CLASS III R.C.P	44'	0.55%	47.24'	47.00'
SD-11	15"	CLASS III R.C.P	68'	0.50%	47.59'	47.24'
SD-12	15"	CLASS III R.C.P	218'	0.25%	47.80'	47.24'
SD-13	15"	CLASS III R.C.P	68'	0.25%	47.98'	47.80'
SD-14	21"	HDPE	98'	0.17%	46.74'	46.58'
SD-15	21"	HDPE	165'	0.17%	47.02'	46.74'
SD-16	21"	HDPE	128'	0.25%	47.34'	47.02'
SD-17	15"	HDPE	83'	0.35%	49.69'	49.40'
SD-18	15"	CLASS III R.C.P	10'	0.30%	46.99'	46.96'
SD-19	15"	CLASS III R.C.P WITH FLARED END SECTION	8'	0.40%	47.02'	46.99'
SD-20	15"	CLASS IV R.C.P WITH FLARED END SECTION	23'	0.20%	47.80'	47.75'
SD-21	15"	CLASS V R.C.P WITH FLARED END SECTION	83'	0.10%	48.16'	48.08'
SD-22	15"	CLASS IV R.C.P	25'	0.40%	48.90'	48.80'
SD-23	15"	CLASS IV R.C.P	11'	0.23%	47.30'	47.27'
SD-24	15"	CLASS III R.C.P	78'	0.25%	47.79'	47.59'
SD-25	15"	HDPE	180'	0.80%	49.65'	48.21'
SD-26	12"	HDPE	52'	0.96%	50.15'	49.65'
SD-27	12"	HDPE	35'	0.80%	51.28'	51.00'
SD-28	12"	HDPE	42'	0.40%	51.45'	51.28'
SD-29	12"	HDPE	49'	0.40%	51.65'	51.45'
SD-30	6"	HDPE	21'	2.38%	49.42'	48.92'
SD-31	6"	HDPE	21'	2.38%	49.58'	49.08'
SD-32	6"	HDPE	36'	1.78%	50.09'	49.45'
SD-33	6"	HDPE	23'	2.70%	50.75'	50.13'
SD-34	12"	HDPE	112'	0.35%	48.18'	47.79'
SD-35	6"	HDPE	11'	2.73%	48.24'	47.94'

REFERENCE SHEET C-401

LAYER STATE: C-401

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE



**BECKER
MORGAN
GROUP**

ARCHITECTURE
ENGINEERING
Dover, DE

309 S. Governors Ave.
Dover, DE 19904
Ph. 302.734.7950
Fax 302.734.7965

BMG: **2011081.00**
SCALE: **1" = 30'**
DATE: **8-3-12**
DRAWN BY: **M.J.H.**

CSK037

STORM DRAIN PIPE SCHEDULE

PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INVERT IN	INVERT OUT
SD-1	15"	CLASS III R.C.P WITH FLARED END SECTION	32'	0.30%	48.93'	48.84'
SD-2	15"	CLASS III R.C.P	81'	0.25%	49.14'	48.93'
SD-3	15"	CLASS III R.C.P	80'	0.25%	49.35'	49.14'
SD-4	15"	CLASS III R.C.P	9'	0.35%	47.45'	47.42'
SD-5	15"	CLASS V R.C.P.	25'	0.31%	48.24'	48.16'
SD-5A	15"	CLASS V R.C.P.	20'	0.31%	48.30'	48.24'
SD-6	15"	CLASS III R.C.P	119'	0.25%	46.14	45.84
SD-7	15"	CLASS III R.C.P	117'	0.25%	46.43'	46.14'
SD-8	15"	CLASS III R.C.P	82'	0.25%	46.64'	46.43'
SD-9	15"	CLASS III R.C.P	79'	0.25%	46.84'	46.64'
SD-10	15"	CLASS III R.C.P	44'	0.55%	47.24'	47.00'
SD-11	15"	CLASS III R.C.P	68'	0.50%	47.59'	47.24'
SD-12	15"	CLASS III R.C.P	218'	0.25%	47.80'	47.24'
SD-13	15"	CLASS III R.C.P	68'	0.25%	47.98'	47.80'
SD-14	21"	HDPE	98'	0.17%	46.74'	46.58'
SD-15	21"	HDPE	165'	0.17%	47.02'	46.74'
SD-16	21"	HDPE	128'	0.25%	47.34'	47.02'
SD-17	15"	HDPE	83'	0.35%	49.69'	49.40'
SD-18	15"	CLASS III R.C.P	10'	0.30%	46.99'	46.96'
SD-19	15"	CLASS III R.C.P WITH FLARED END SECTION	8'	0.40%	47.02'	46.99'
SD-20	15"	CLASS IV R.C.P WITH FLARED END SECTION	23'	0.20%	47.80'	47.75'
SD-21	15"	CLASS V R.C.P WITH FLARED END SECTION	83'	0.10%	48.16'	48.08'
SD-22	15"	CLASS IV R.C.P	25'	0.40%	48.90'	48.80'
SD-23	15"	CLASS IV R.C.P	11'	0.23%	47.30'	47.27'
SD-24	15"	CLASS III R.C.P	78'	0.25%	47.79'	47.59'
SD-25	15"	HDPE	180'	0.80%	49.65'	48.21'
SD-26	12"	HDPE	52'	0.96%	50.15'	49.65'
SD-27	12"	HDPE	35'	0.80%	51.28'	51.00'
SD-28	12"	HDPE	42'	0.40%	51.45'	51.28'
SD-29	12"	HDPE	49'	0.40%	51.65'	51.45'
SD-30	6"	HDPE	21'	2.38%	49.42'	48.92'
SD-31	6"	HDPE	21'	2.38%	49.58'	49.08'
SD-32	6"	HDPE	36'	1.78%	50.09'	49.45'
SD-33	6"	HDPE	23'	2.70%	50.75'	50.13'
SD-34	12"	HDPE	112'	0.35%	48.18'	47.79'
SD-35	6"	HDPE	11'	2.73%	48.24'	47.94'

REFERENCE SHEET C-402

LAYER STATE: C-402

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE



**BECKER
MORGAN
GROUP**

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SCALE: 1" = 30'
DATE: 8-3-12
DRAWN BY: M.J.H.

CSK038

- R-26** EXISTING CATCH BASIN TO BE REMOVED. SEE SHEET C-301, C-302 AND C-602 FOR REPLACEMENT INFORMATION.
- R-27** REMOVE EXISTING CULVERT PIPE. SEE SHEET C-301 & C-602 FOR REPLACEMENT PIPE INFORMATION.
- R-28** REMOVE EXISTING CHAIN LINK FENCE.
- R-29** BITUMINOUS PAVEMENT SAW CUT LINE.
- R-30** EXISTING SANITARY SEWER TO BE COMPLETELY REMOVED.
- R-31** REMOVE EXISTING FENCE SECTION FOR INSTALLATION OF STORM DRAIN PIPE SHOWN ON SHEET C-302 & 402.
- R-32** REMOVE EXISTING PAVEMENT FOR INSTALLATION OF STORM DRAIN PIPE SHOWN ON SHEET C-302 & 402.
- R-33** REMOVE EXISTING STORM DRAIN PIPE.
- R-34** RELOCATE EXISTING SIGN BEHIND NEW CURB. REROUTE ELECTRIC TO NEW SIGN LOCATION. SEE ELECTRIC DRAWINGS FOR DETAIL.
- R-35** EXISTING 8" (2) STORM DRAIN PIPES TO BE ABANDONED IN PLACE. FILL SOLID WITH FLOWABLE FILL.
- R-36** EXISTING STORM DRAIN MANHOLE TO BE REMOVED.
- R-37** REMOVED EXISTING PIPE ENDWALL.
- R-38** REMOVED EXISTING SEPTIC TANKS.
- R-39** REMOVE EXISTING POST INDICATOR VALVE. CUT AND CAP PIPE ENDS TO REMAIN AND REMOVE PIPE FROM CAP TO BUILDING.
- R-40** REMOVE EXISTING PROPANE GAS LINE.
- R-41** REMOVE EXISTING LANDSCAPE AREA AND SHRUBS.
- R-42** REMOVE EXISTING FLAG POLE.
- R-43** REMOVE EXISTING WALL.
- R-44** REMOVE PIPE TO WITHIN 2' OF DRIP LINE OF TREE. CAP REMAINING PIPE ENDS AND ABANDON REMAINDER IN PLACE.
- R-45** REMOVE PORTIONS OF STORM DRAIN PIPE SHOWN. FILL REMAINDER WITH FLOWABLE FILL AND ABANDON IN PLACE.
- ~~**R-46** REMOVE EXISTING RIPRAP. RIPRAP MAY BE REUSED IF IT MEETS SPECIFICATIONS~~
- ~~**R-47** REMOVE AND DISPOSE OF EXISTING PARKING BUMPERS. (TYP.) — NIC, ALREADY REMOVED.~~ 2
- ~~**R-48** REMOVE AND REUSE EXISTING FIRE LANE SIGNS. (TYP.)~~
- R-49** REMOVE EXISTING CONCRETE HANDICAPPED CURB RAMP AND DOMES.
- R-50** SEE SHEET C-601 FOR SIGN INFORMATION.
- R-51** DEMOLISH EXISTING PUMP STATION. REMOVE ALL ALL PIPING CONCRETE, FOUNDATIONS, ELECTRIC SERVICE, CONTROLS AND ALL OTHER APPURTENANCES ASSOCIATED WITH STATION. PROPERLY BACKFILL AND COMPACT.
- R-52** REMOVE EXISTING CONDUITS. THE EXACT EXTENT OF CONDUIT SHALL BE VERIFIED IN FIELD.
- R-53** EXISTING SHED TO BE DEMOLISHED.
- R-54** EXISTING SHED/GARAGE TO BE DEMOLISHED.
- R-55** EXISTING CONCRETE RUBBLE TO BE REMOVED AND PROPERLY DISPOSED OF.
- R-56** EXISTING DRUMS (7) AND METAL/WOOD DEBRIS TO BE REMOVED AND PROPERLY DISPOSED OF
- R-57** DEMOLISH EXISTING BRICK BLEACHERS.
- R-58** EXISTING SANITARY SEWER MANHOLE TO BE REMOVED. EXISTING SANITARY SEWER TO BE CONNECTED TO NEW SEWER. SEE SITE UTILITY PLAN P-300.
- R-59** EXISTING SIGN TO BE REMOVED AND RETURNED TO OWNER.
- R-60** EXISTING PROPANE TANK TO BE REMOVED BY OWNER. NOT IN CONTRACT.
- R-61** REMOVE EXISTING TRANSFORMER, DISCONNECTS, METERS AND PANEL BOARDS. SEE SITE ELECTRIC DEMOLITION DRAWINGS, SHEETS E100 AND E101.
- R-62** ABANDON EXISTING ELECTRIC SERVICES IN THIS AREA. REMOVE WIRES AND CONDUIT STUB-UPS. CAP REMAINING CONDUIT AND ABANDON IN PLACE. SEE NOTE R-16 AND SITE ELECTRIC DEMOLITION DRAWINGS, SHEETS E100 AND E101.
- R-63** REMOVE EXISTING HVAC UNITS. ONE TO BE RETURNED TO OWNER, OTHER TWO TO BE DISPOSED OF.
- R-64** CONTRACTOR TO DEMOLISH EXISTING DISPLAY FOUNDATION, SUPPORTS, TIE DOWNS, CONCRETE ETC.

NOTES:

1. SEE ELECTRIC DEMOLITION PLAN E101 FOR ELECTRIC/TELEPHONE DEMOLITION.
2. CONTRACTOR SHALL VERIFY ALL SITE UTILITIES PRIOR TO START OF CONSTRUCTION ACTIVITY.
3. ALL DEMOLITION MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
4. ALL AREAS DISTURBED BY DEMOLITION/CONSTRUCTION SHALL BE PROPERLY RESTORED, GRADED, AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT & STORMWATER PLANS.

REFERENCE SHEET C-102

LAYER STATE: C-102

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

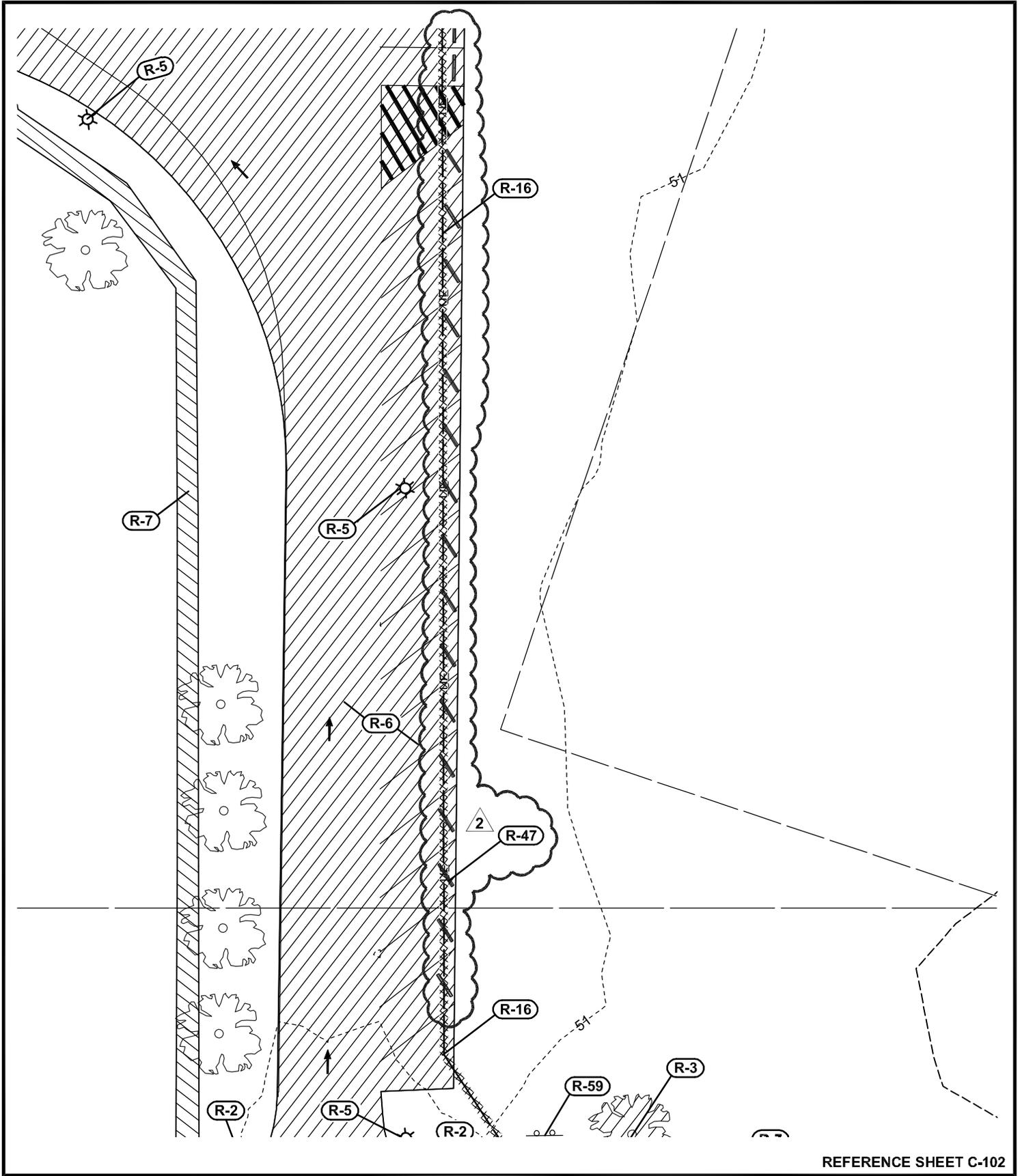
WOODSIDE
KENT COUNTY, DELAWARE



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DRAWN BY: M.J.H.

CSK039



REFERENCE SHEET C-102

LAYER STATE: C-102

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

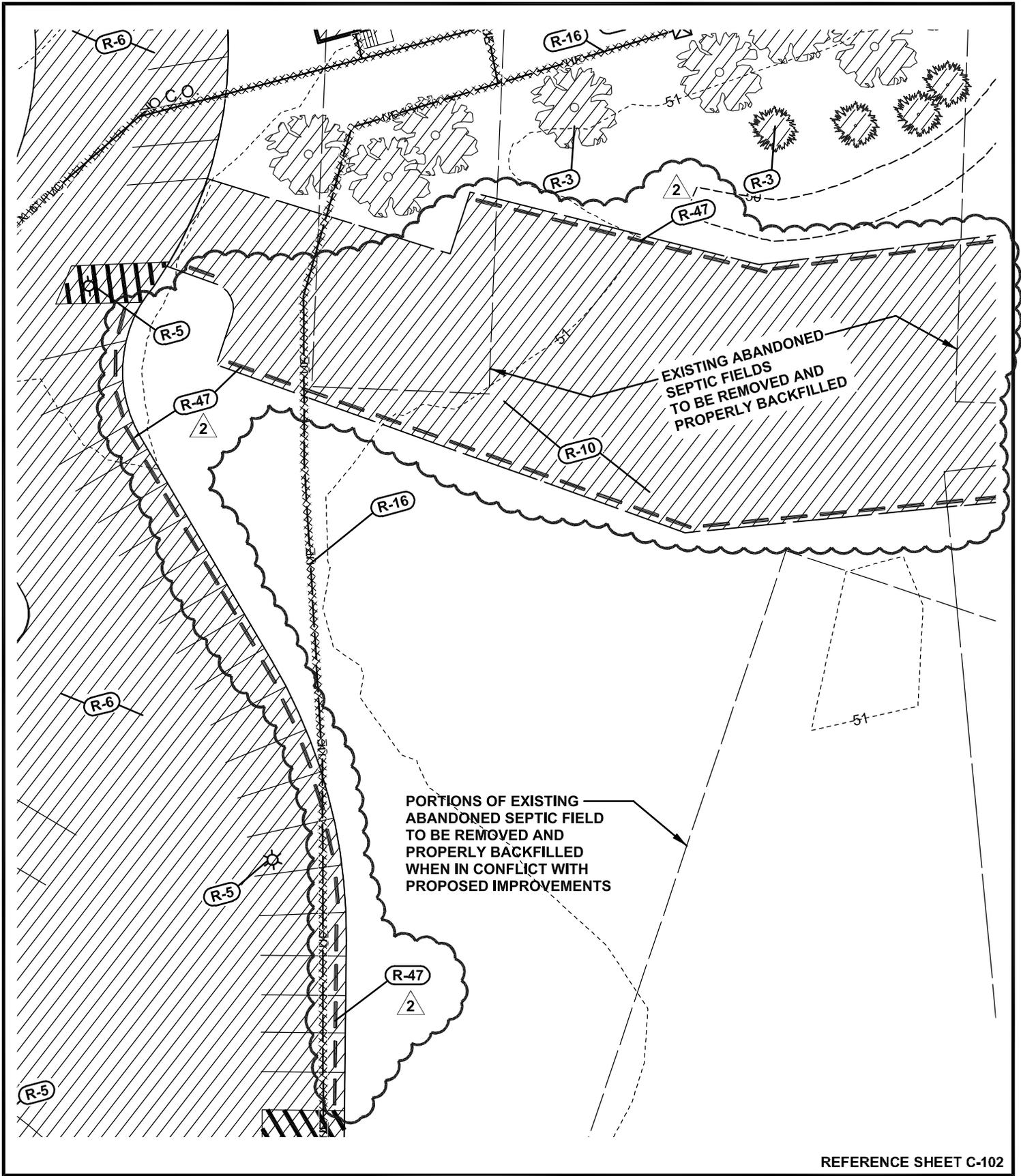


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CSK040



REFERENCE SHEET C-102

LAYER STATE: C-102

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

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KENT COUNTY, DELAWARE

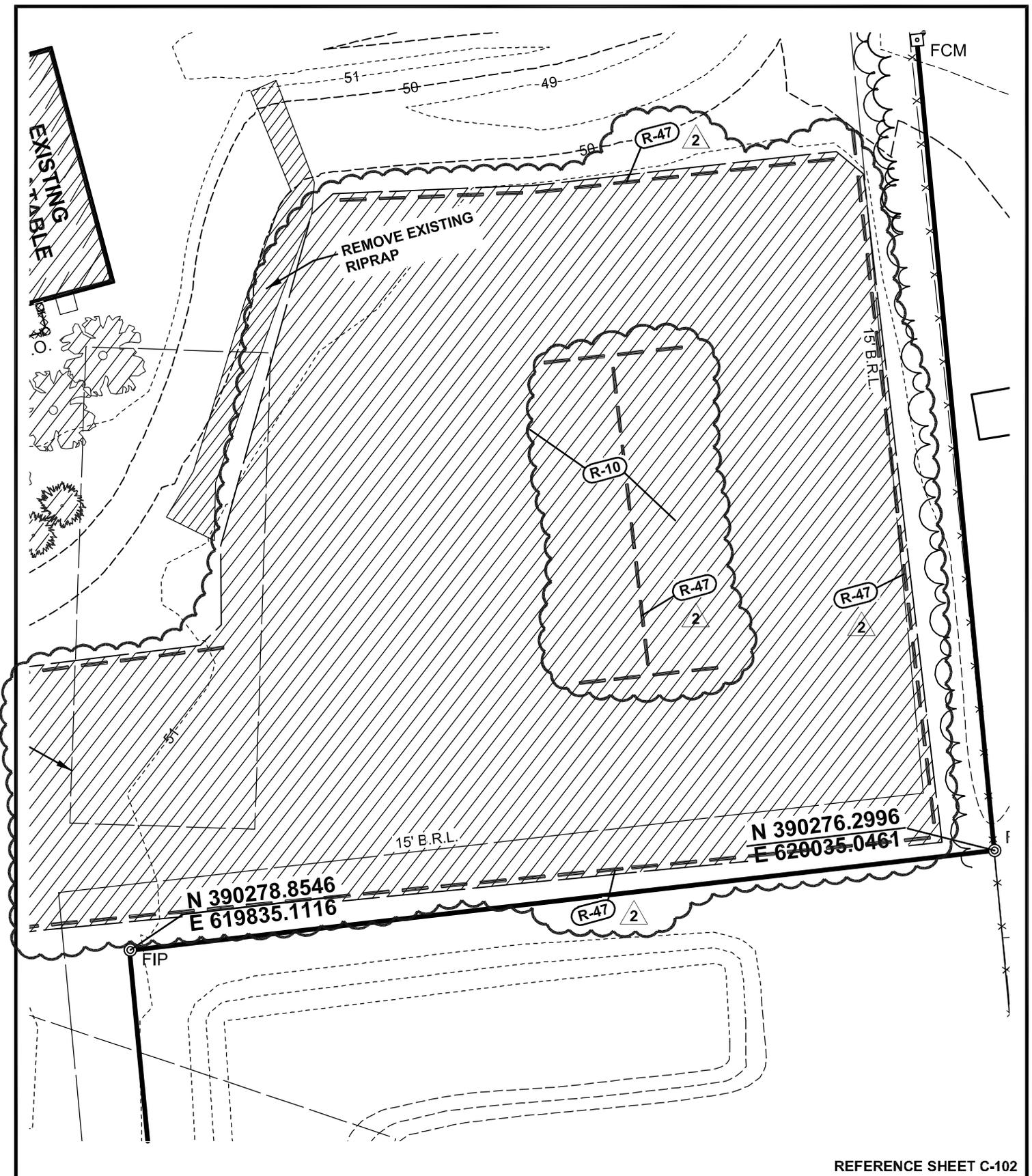


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CSK041



REFERENCE SHEET C-102

LAYER STATE: C-102

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

2



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CSK042

- R-26** EXISTING CATCH BASIN TO BE REMOVED. SEE SHEET C-301, C-302 AND C-602 FOR REPLACEMENT INFORMATION.
- R-27** REMOVE EXISTING CULVERT PIPE. SEE SHEET C-301 & C-602 FOR REPLACEMENT PIPE INFORMATION.
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- ~~**R-46** REMOVE EXISTING RIPRAP. RIPRAP MAY BE REUSED IF IT MEETS SPECIFICATIONS~~
- ~~**R-47** REMOVE AND DISPOSE OF EXISTING PARKING BUMPERS. (TYP.) — NIC, ALREADY REMOVED.~~ 2
- ~~**R-48** REMOVE AND REUSE EXISTING FIRE LANE SIGNS. (TYP.)~~
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- R-63** REMOVE EXISTING HVAC UNITS. ONE TO BE RETURNED TO OWNER, OTHER TWO TO BE DISPOSED OF.
- R-64** CONTRACTOR TO DEMOLISH EXISTING DISPLAY FOUNDATION, SUPPORTS, TIE DOWNS, CONCRETE ETC.

NOTES:

1. SEE ELECTRIC DEMOLITION PLAN E101 FOR ELECTRIC/TELEPHONE DEMOLITION.
2. CONTRACTOR SHALL VERIFY ALL SITE UTILITIES PRIOR TO START OF CONSTRUCTION ACTIVITY.
3. ALL DEMOLITION MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
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REFERENCE SHEET C-103

LAYER STATE: C-103

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

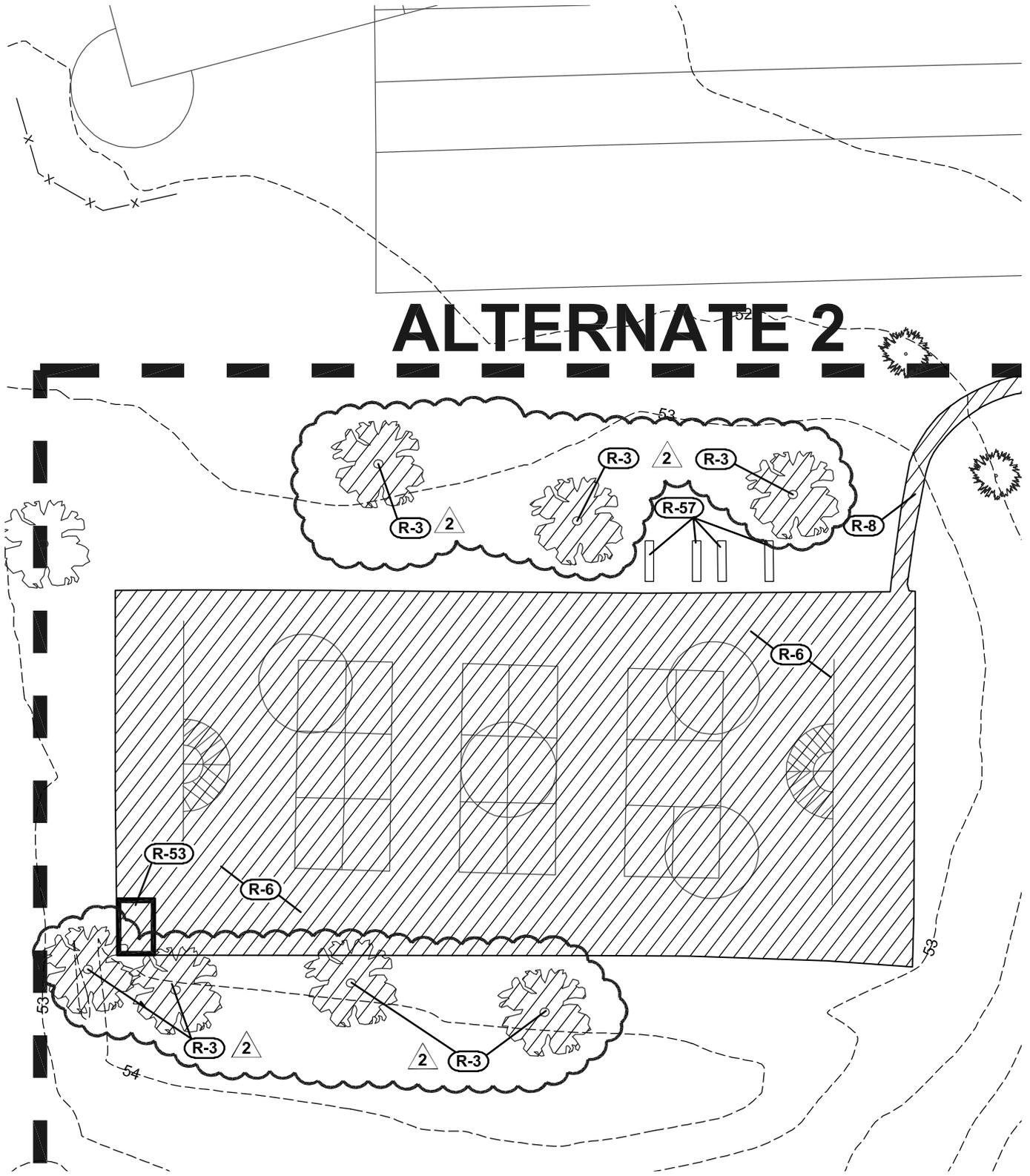


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DRAWN BY: M.J.H.

CSK043

ALTERNATE 2



REFERENCE SHEET C-103

LAYER STATE: C-103

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE



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CSK044

STORM DRAIN CATCH BASIN SCHEDULE

CB NO.	INLET BOX	COVER SLAB	TOP UNIT	FRAME/GRATE	GRATE EL.	INV. IN	INV. IN	INV. OUT
1	34" x 24"	-	TYPE C	TYPE 1	51.53'	-	48.93'	48.93'
2	34" x 24"	-	TYPE C	TYPE 1	51.80'	-	49.14'	49.14'
3	34" x 24"	-	TYPE C	TYPE 1	52.06'	-	-	49.35'
4	72" x 24"	72" x 24" 	TYPE C	TYPE 1	50.81'	-	47.42'	47.10'
5	34" x 24"	-	TYPE C	TYPE 1	50.27'	-	48.16'	48.16'
6	SEE DETAIL SHT. C-505	-	-	-	50.00'	-	-	48.30'
7	TYPE "B"	-	-	TYPE 1	50.50'	-	46.64'	46.64'
8	TYPE "B"	-	-	TYPE 1	51.00'	-	-	46.84'
9	TYPE "B" MOD.	-	-	TYPE 1	50.70'	-	47.24'	47.24'
10	TYPE "B"	-	-	TYPE 1	51.73'	-	-	47.59'
11	TYPE "B" MOD.	-	-	TYPE 1	50.88'	-	47.80'	47.80'
12	TYPE "B"	-	-	TYPE 1	51.88'	-	-	47.98'
13	TYPE "A-A"	-	-	TYPE 1	51.00'	-	46.58'	46.58'
14	TYPE "A-A"	-	-	TYPE 1	51.75'	-	47.02'	47.02'
15	TYPE "A-A"	-	-	TYPE 1	53.00'	49.40'	47.34'	47.34'
16	TYPE "A-A"	-	-	TYPE 1	54.24'	-	49.69'	49.69'
17	TYPE "B"	-	-	TYPE 1	51.98'	-	46.99'	46.99'
18	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	54.38'	-	51.28'	51.28'
19	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	53.60'	-	51.45'	51.45'
20	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	54.00'	-	-	51.65'
21	TYPE "B"	-	-	TYPE 1	51.03'	-	-	48.90'
22	ADS 10" DRAIN BASIN	-	-	STANDARD	49.75'	-	48.31'	48.31'
23	ADS 10" DRAIN BASIN	-	-	STANDARD	49.85'	-	48.43'	48.43'
24	ADS 10" DRAIN BASIN	-	-	STANDARD	50.20'	-	48.56'	48.56'
25	ADS 10" DRAIN BASIN	-	-	STANDARD	50.20'	-	48.72'	48.72'
26	TYPE "B" MOD.	-	-	TYPE 1	53.50'	-	51.03'	51.03'
27	TYPE "B" MOD.	-	-	TYPE 1	50.25'	-	47.30'	47.30'
28	TYPE "B" MOD.	-	-	TYPE 1	49.95'	-	47.66'	47.66'
29	TYPE "B" MOD.	-	-	TYPE 1	50.25'	-	47.75'	47.75'

REFERENCE SHEET C-401

LAYER STATE: C-401

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

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CSK045

STORM DRAIN CATCH BASIN SCHEDULE

CB NO.	INLET BOX	COVER SLAB	TOP UNIT	FRAME/GRATE	GRATE EL.	INV. IN	INV. IN	INV. OUT
1	34" x 24"	-	TYPE C	TYPE 1	51.53'	-	48.93'	48.93'
2	34" x 24"	-	TYPE C	TYPE 1	51.80'	-	49.14'	49.14'
3	34" x 24"	-	TYPE C	TYPE 1	52.06'	-	-	49.35'
4	72" x 24"	72" x 24" 	TYPE C	TYPE 1	50.81'	-	47.42'	47.10'
5	34" x 24"	-	TYPE C	TYPE 1	50.27'	-	48.16'	48.16'
6	SEE DETAIL SHT. C-505	-	-	-	50.00'	-	-	48.30'
7	TYPE "B"	-	-	TYPE 1	50.50'	-	46.64'	46.64'
8	TYPE "B"	-	-	TYPE 1	51.00'	-	-	46.84'
9	TYPE "B" MOD.	-	-	TYPE 1	50.70'	-	47.24'	47.24'
10	TYPE "B"	-	-	TYPE 1	51.73'	-	-	47.59'
11	TYPE "B" MOD.	-	-	TYPE 1	50.88'	-	47.80'	47.80'
12	TYPE "B"	-	-	TYPE 1	51.88'	-	-	47.98'
13	TYPE "A-A"	-	-	TYPE 1	51.00'	-	46.58'	46.58'
14	TYPE "A-A"	-	-	TYPE 1	51.75'	-	47.02'	47.02'
15	TYPE "A-A"	-	-	TYPE 1	53.00'	49.40'	47.34'	47.34'
16	TYPE "A-A"	-	-	TYPE 1	54.24'	-	49.69'	49.69'
17	TYPE "B"	-	-	TYPE 1	51.98'	-	46.99'	46.99'
18	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	54.38'	-	51.28'	51.28'
19	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	53.60'	-	51.45'	51.45'
20	ADS 18" DRAIN BASIN	-	-	18" PEDESTRIAN	54.00'	-	-	51.65'
21	TYPE "B"	-	-	TYPE 1	51.03'	-	-	48.90'
22	ADS 10" DRAIN BASIN	-	-	STANDARD	49.75'	-	48.31'	48.31'
23	ADS 10" DRAIN BASIN	-	-	STANDARD	49.85'	-	48.43'	48.43'
24	ADS 10" DRAIN BASIN	-	-	STANDARD	50.20'	-	48.56'	48.56'
25	ADS 10" DRAIN BASIN	-	-	STANDARD	50.20'	-	48.72'	48.72'
26	TYPE "B" MOD.	-	-	TYPE 1	53.50'	-	51.03'	51.03'
27	TYPE "B" MOD.	-	-	TYPE 1	50.25'	-	47.30'	47.30'
28	TYPE "B" MOD.	-	-	TYPE 1	49.95'	-	47.66'	47.66'
29	TYPE "B" MOD.	-	-	TYPE 1	50.25'	-	47.75'	47.75'

REFERENCE SHEET C-402

LAYER STATE: C-402

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

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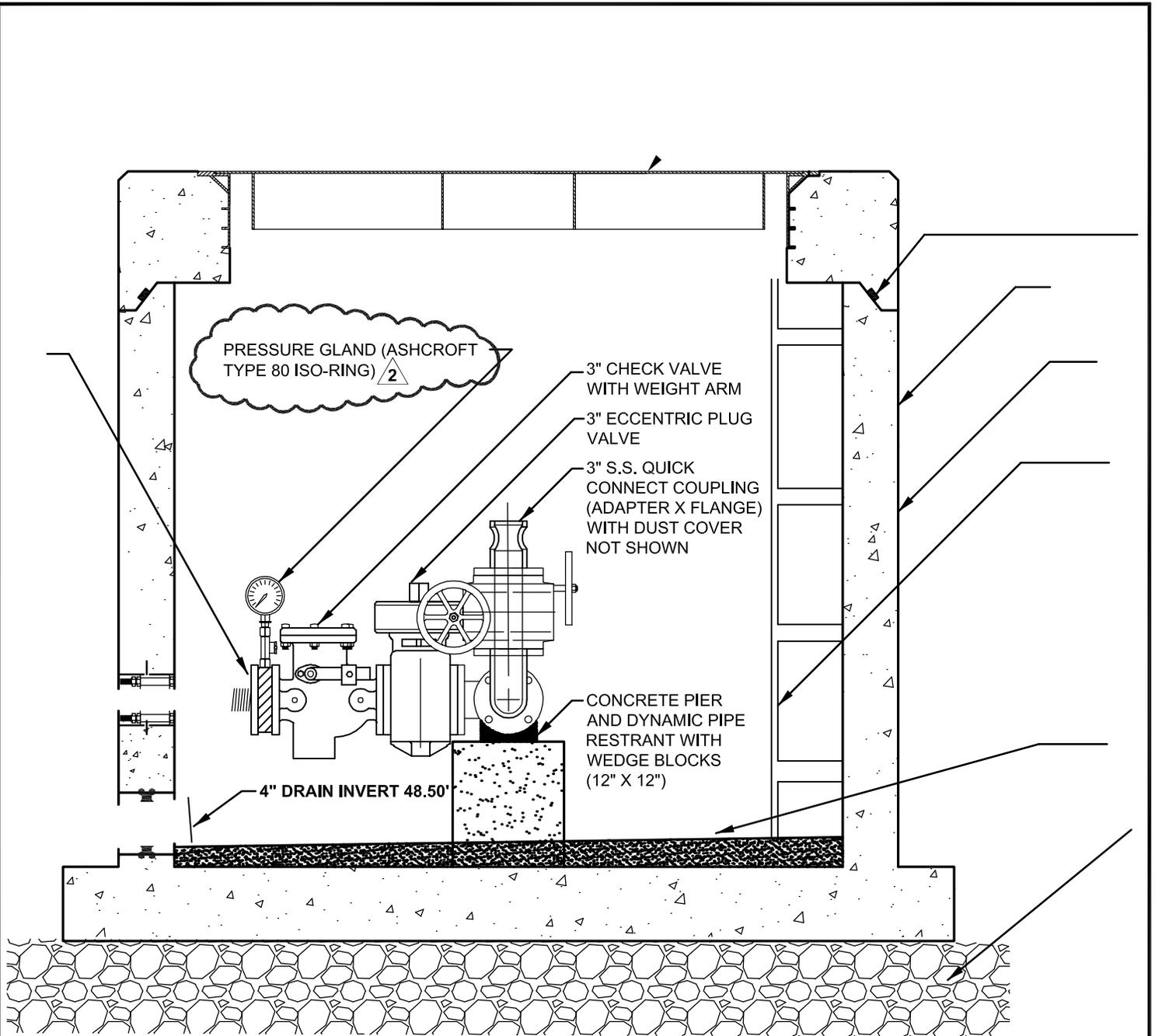
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CSK046



NEW PRECAST CONCRETE VALVE VAULT

NOTE: THE STRUCTURAL DESIGN OF THE VALVE CHAMBER, IN ADDITION TO ANTI-FLOATATION CALCULATIONS, SHALL BE PROVIDED BY THE PRECAST CONCRETE MANUFACTURER AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE.

REFERENCE SHEET C-303

LAYER STATE: Model

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE



**BECKER
MORGAN
GROUP**

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ENGINEERING
Dover, DE

309 S. Governors Ave.
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BMG: 2011081.00
SCALE: 3/4" = 1'
DATE: 8-3-12
DRAWN BY: M.J.H.

CSK047

SANITARY SEWER CONSTRUCTION NOTES

- S-1** INSTALL 8" SANITARY SEWER MAIN. SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET.
- S-2** INSTALL SANITARY SEWER MANHOLE WITH FRAME AND COVER AT THE INVERTS AND ELEVATIONS SHOWN HEREON (typ.). SEE SANITARY SEWER MANHOLE SCHEDULE, THIS SHEET AND DETAILS, SHEET C-902.
- S-3** CONNECT PROPOSED 8" SANITARY SEWER TO SANITARY SEWER BY OTHERS.
- S-4** INSTALL A 6" SANITARY SEWER LATERAL (1.0% MINIMUM SLOPE), SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET AND DETAIL, SHEET C-902.
- S-5** REROUTE EXISTING 3" SANITARY SEWER FORCE MAIN AS SHOWN USING 2" DIA. PVC SDR 21 PIPE. LAST 5' PRIOR TO CONNECTION WITH MANHOLE SHALL ENLARGE TO 3" DIAMETER PER KENT COUNTY FORCE MAIN DISCHARGE DETAIL, SEE SHEET C-304.
- S-6** CONNECT PROPOSED 8" SANITARY SEWER MAIN TO EXISTING BUILDING SEWER. SEE PLUMBING PLANS FOR BUILDING SEWER INFORMATION.
- S-7** INSTALL CLEANOUT 3' OUTSIDE BUILDING. SEE DETAIL, SHEET C-902.
- S-8** CORE DRILL EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SEWER AT INVERT 46.98' USING APPROVED PIPE TO MANHOLE CONNECTOR.
- S-9** INSTALL PROPOSED 8" SANITARY SEWER IN EXISTING PIPE OPENING AFTER REMOVAL OF EXISTING MAIN.
- S-10** EXISTING SANITARY SEWER PUMP STATION TO BE UPGRADED. SEE SHEETS C-303 AND C-304.
- S-11** PROPOSED DROP MANHOLE WITH RELINER INTERIOR DROP CONNECTION.
- S-12** PROPOSED 3" DIA. PVC SDR 21 SANITARY SEWER FORCE MAIN FROM PUMP STATION. CONNECT TO EXISTING 3" DIA. F.M.
- S-13** CONTRACTOR TO TEST PIT/CONFIRM LOCATION OF EXISTING SANITARY SEWER LATERAL AND PROVIDE TO ENGINEER.
- S-14** SANITARY/STORM SEWER CONFLICT, SEE DETAIL, SHEET C-902 FOR REQUIREMENTS.
- S-15** CONTRACTOR TO PRESSURE WASH/CLEAN EXISTING MANHOLE STEPS.

2

REFERENCE SHEET C-301

LAYER STATE: C-301

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

2

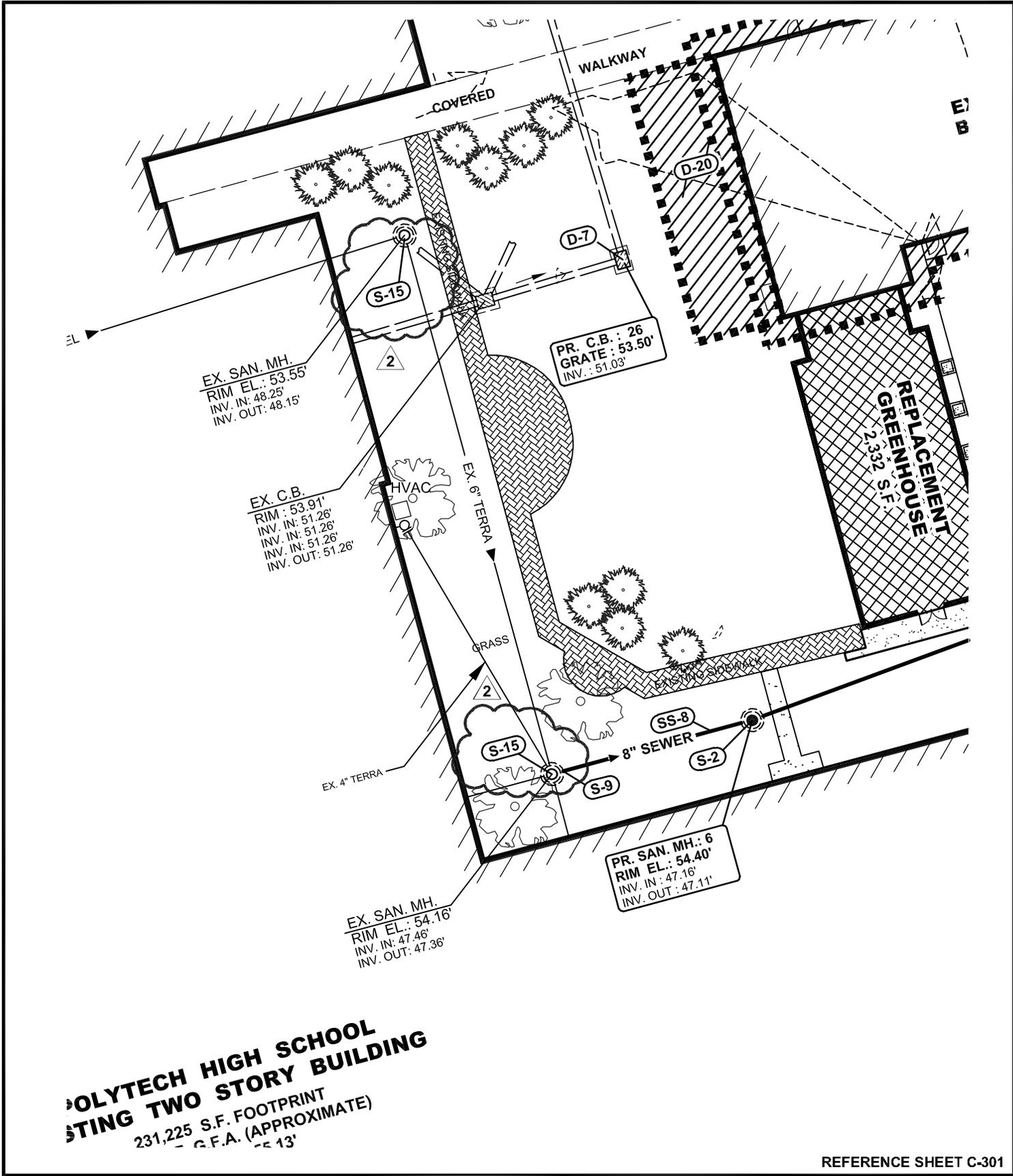
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DRAWN BY: M.J.H.

CSK048



**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BIDDING TWO STORY BUILDING**
 231,225 S.F. FOOTPRINT
 150,000 G.F.A. (APPROXIMATE)
 150' x 100'

REFERENCE SHEET C-301

LAYER STATE: C-301

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 2**
 WOODSIDE
 KENT COUNTY, DELAWARE



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2

REFERENCE SHEET C-302

LAYER STATE: C-302

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

2

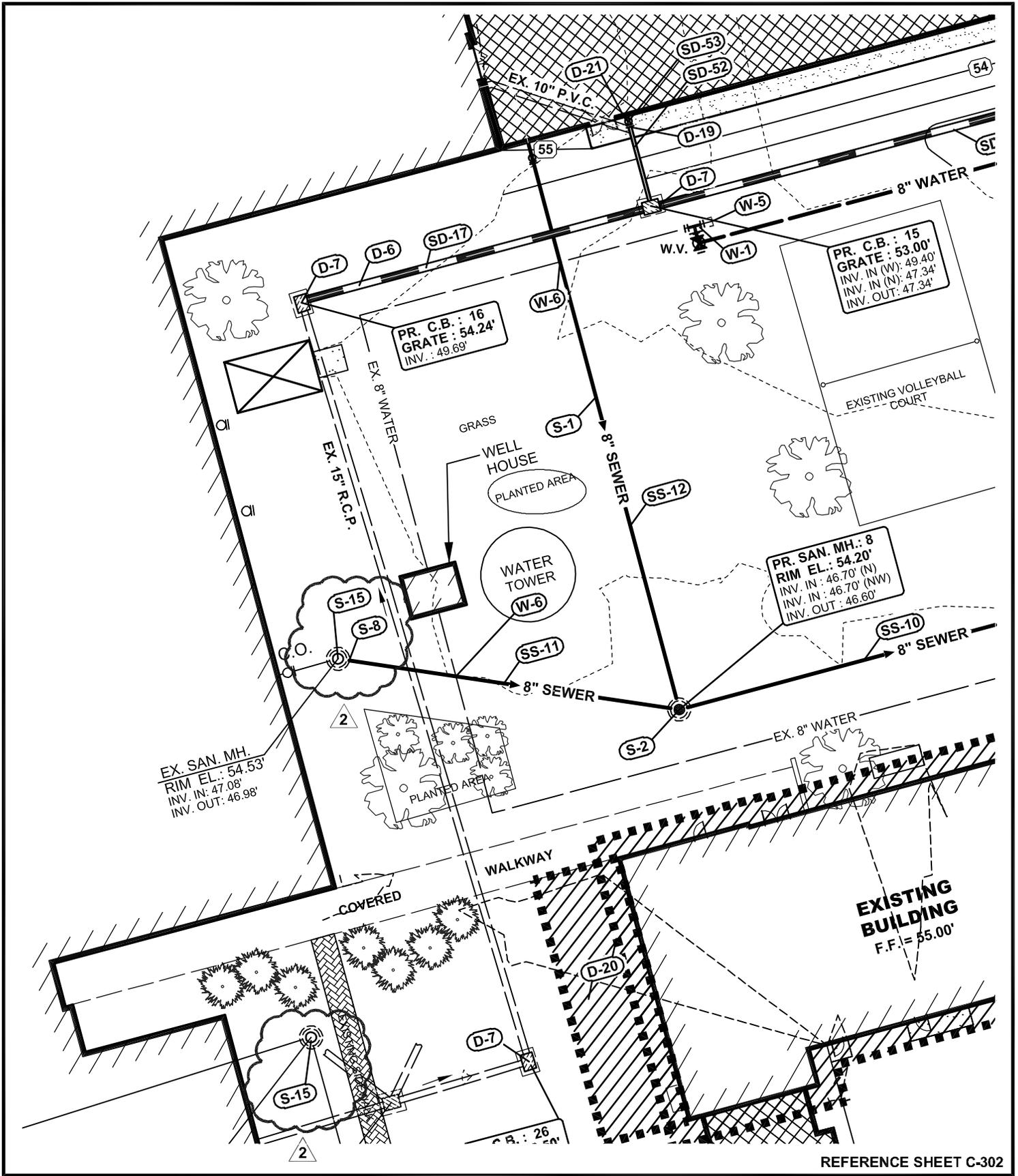
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CSK050



REFERENCE SHEET C-302

LAYER STATE: C-302

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

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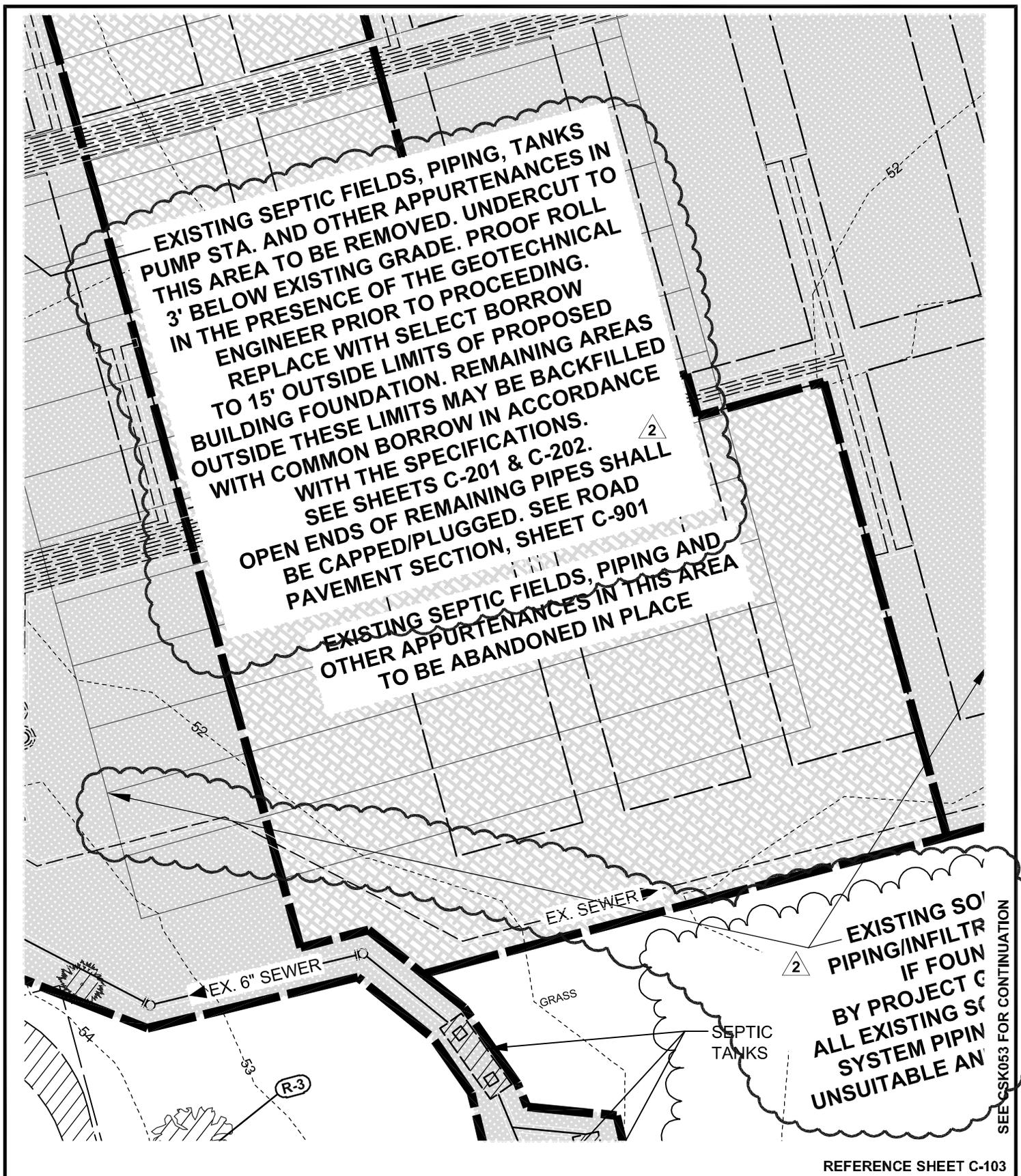
CSK051

EXISTING SEPTIC FIELDS, PIPING, TANKS
 PUMP STA. AND OTHER APPURTENANCES IN
 THIS AREA TO BE REMOVED. UNDERCUT TO
 3' BELOW EXISTING GRADE. PROOF ROLL
 IN THE PRESENCE OF THE GEOTECHNICAL
 ENGINEER PRIOR TO PROCEEDING.
 REPLACE WITH SELECT BORROW
 TO 15' OUTSIDE LIMITS OF PROPOSED
 BUILDING FOUNDATION. REMAINING AREAS
 OUTSIDE THESE LIMITS MAY BE BACKFILLED
 WITH COMMON BORROW IN ACCORDANCE
 WITH THE SPECIFICATIONS.
 SEE SHEETS C-201 & C-202.
 OPEN ENDS OF REMAINING PIPES SHALL
 BE CAPPED/PLUGGED. SEE ROAD
 PAVEMENT SECTION, SHEET C-901

EXISTING SEPTIC FIELDS, PIPING AND
 OTHER APPURTENANCES IN THIS AREA
 TO BE ABANDONED IN PLACE

EXISTING SOI
 PIPING/INFILTR
 IF FOUN
 BY PROJECT C
 ALL EXISTING S
 SYSTEM PIPIN
 UNSUITABLE AN

SEE CSK053 FOR CONTINUATION



REFERENCE SHEET C-103

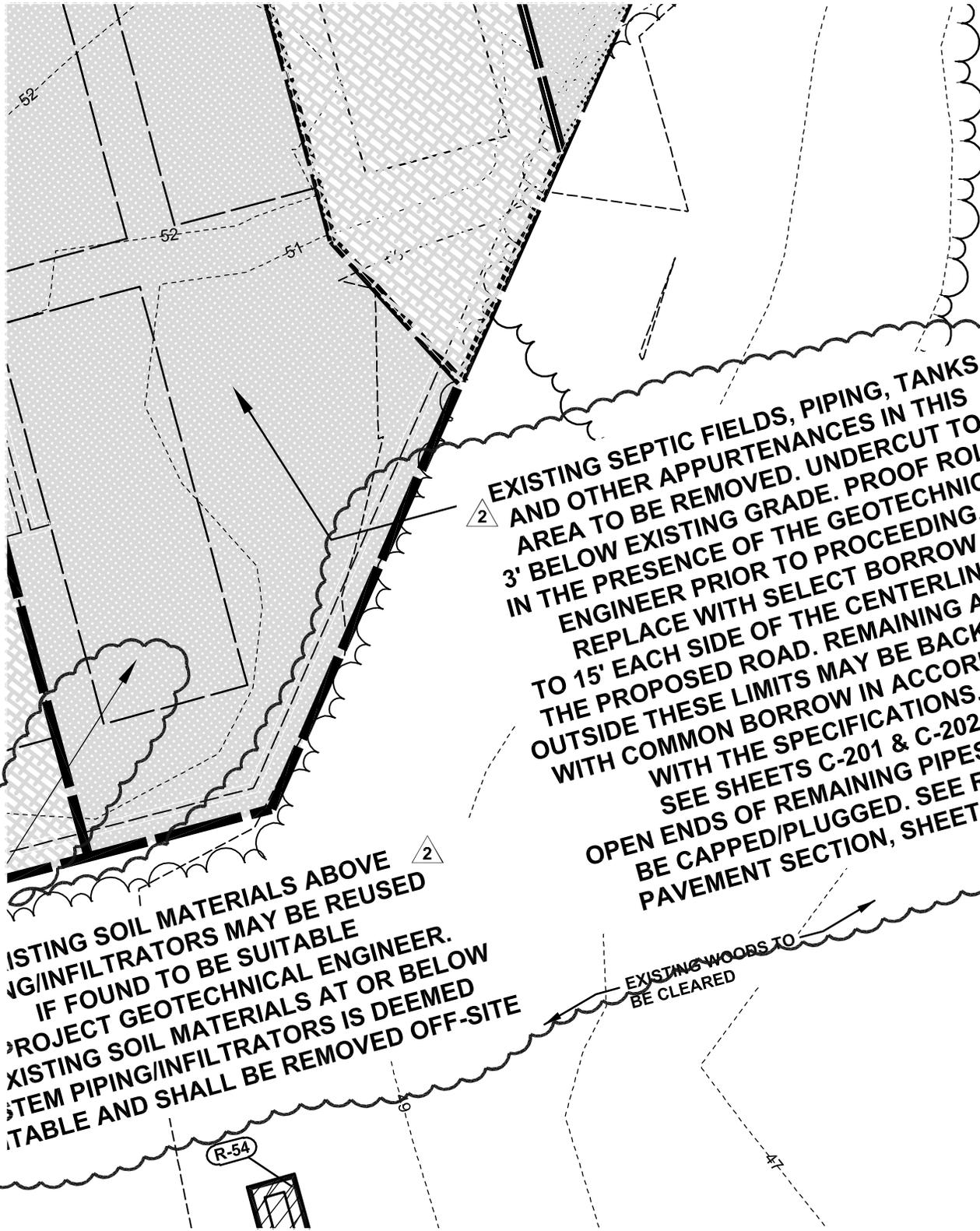
LAYER STATE: C-103

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 2**
 WOODSIDE
 KENT COUNTY, DELAWARE



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 DRAWN BY: M.J.H.
CSK052



SEE CSK053 FOR CONTINUATION

EXISTING SOIL MATERIALS ABOVE PIPING/INFILTRATORS MAY BE REUSED IF FOUND TO BE SUITABLE TO PROJECT GEOTECHNICAL ENGINEER. EXISTING SOIL MATERIALS AT OR BELOW SYSTEM PIPING/INFILTRATORS IS DEEMED UNSUITABLE AND SHALL BE REMOVED OFF-SITE

EXISTING SEPTIC FIELDS, PIPING, TANKS AND OTHER APPURTENANCES IN THIS AREA TO BE REMOVED. UNDERCUT TO 3' BELOW EXISTING GRADE. PROOF ROLL IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING. REPLACE WITH SELECT BORROW TO 15' EACH SIDE OF THE CENTERLINE OF THE PROPOSED ROAD. REMAINING AREAS OUTSIDE THESE LIMITS MAY BE BACKFILLED WITH COMMON BORROW IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEETS C-201 & C-202. OPEN ENDS OF REMAINING PIPES SHALL BE CAPPED/PLUGGED. SEE ROAD PAVEMENT SECTION, SHEET C-901

EXISTING WOODS TO BE CLEARED

R-54

REFERENCE SHEET C-103

LAYER STATE: C-103

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**
WOODSIDE
KENT COUNTY, DELAWARE

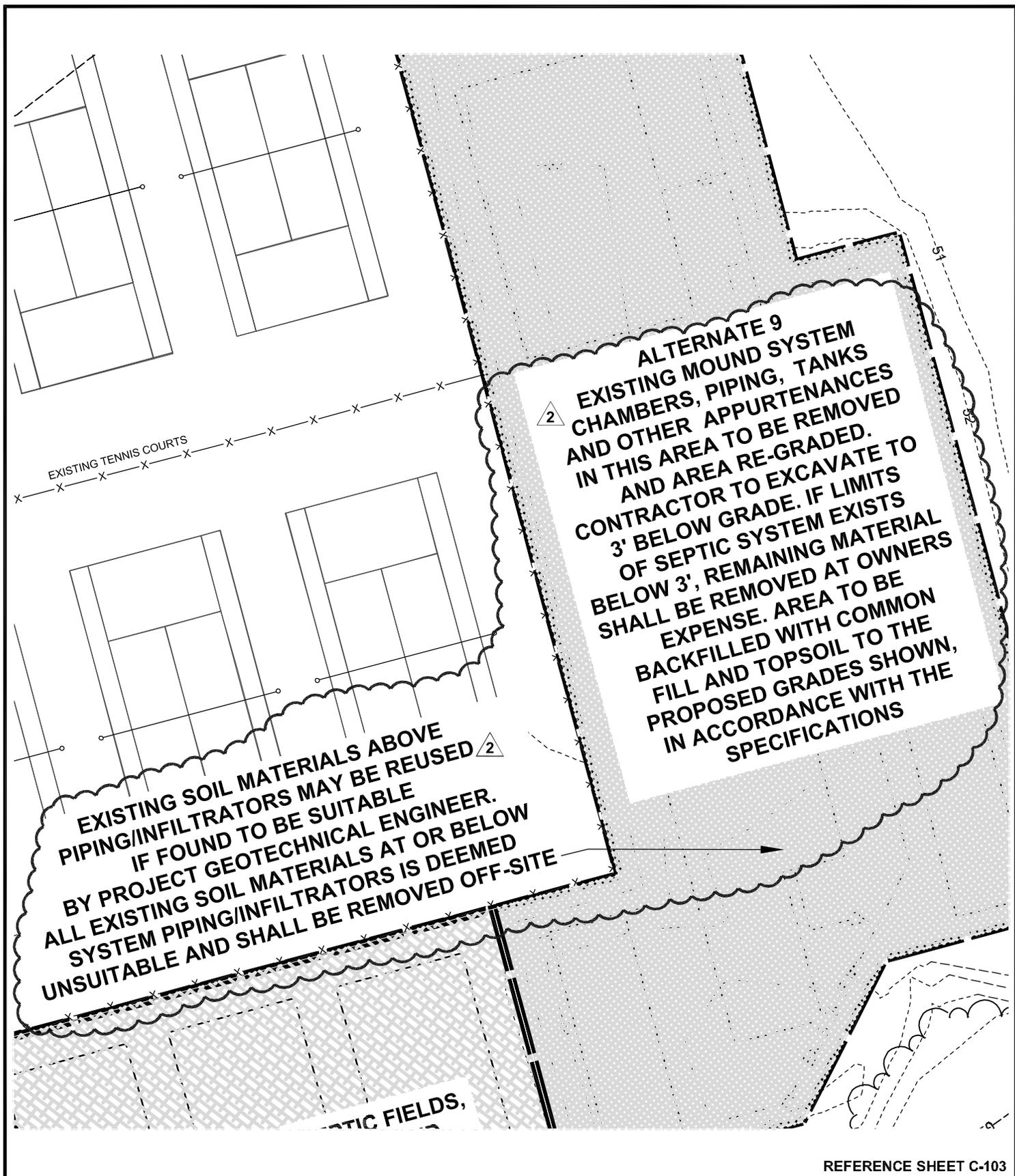


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CSK053



REFERENCE SHEET C-103

LAYER STATE: C-103

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
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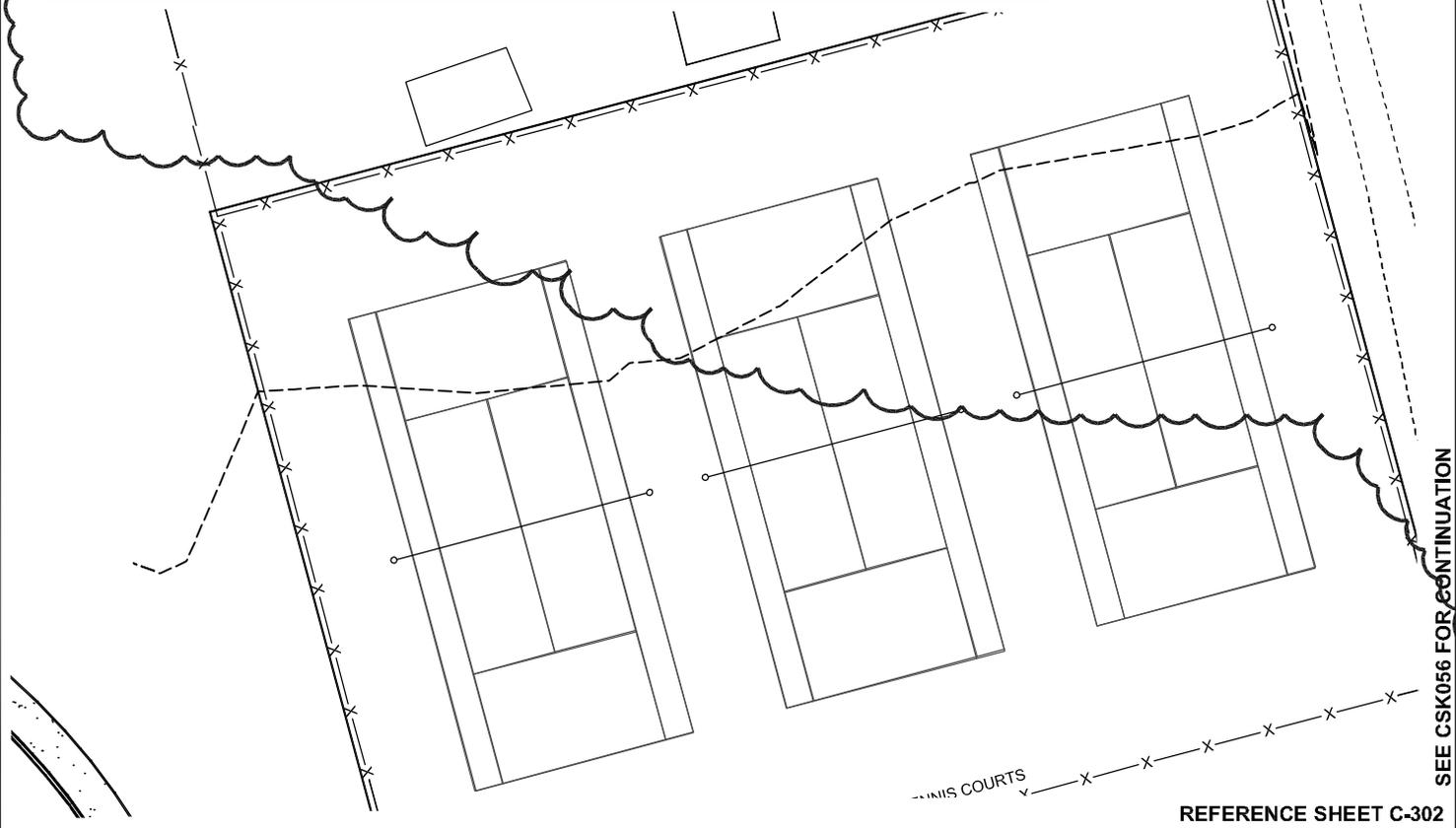
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CSK054

SANITARY SEWER PIPE SCHEDULE

PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SS-1	8"	PVC SDR 35	371'	0.30%	44.29'	43.17'
SS-2	8"	PVC SDR 35	251'	0.50%	48.71'	47.46'
SS-3	8"	PVC SDR 35	18'	0.40%	48.88'	48.81'
SS-4	8"	PVC SDR 35	62'	0.30%	44.53'	44.34'
SS-5	8"	PVC SDR 35	219'	0.30%	45.24'	44.58'
SS-6	8"	PVC SDR 35	91'	0.30%	45.53'	45.26'
SS-7	8"	PVC SDR 35	319'	0.46%	47.11'	45.63'
SS-8	8"	PVC SDR 35	43'	0.46%	47.36'	47.16'
SS-9	8"	PVC SDR 35	207'	0.30%	46.20'	45.58'
SS-10	8"	PVC SDR 35	115'	0.30%	46.60'	46.25'
SS-11	8"	PVC SDR 35	75'	0.35%	46.98'	46.70'
SS-12	8"	PVC SDR 35	132'	0.70%	47.63'	46.70'
SS-13	6"	PVC SDR 35	27'	1.04%	50.05'	49.77'
SS-14	8"	CLASS 52 DUCTILE IRON	55'	0.30%	46.82'	46.65'
SS-15	4"	PVC SDR 35	64'	2.08%	52.29'	50.96'
SS-16	6"	PVC SDR 35	48'	1.04%	49.53'	49.03'
SS-17	8"	PVC SDR 35	6'	0.83%	46.55'	46.50'
SS-18	6"	PVC SDR 35	17'	2.08%	44.08'	43.73'



LAYER STATE: C-302

POLYTECH HIGH SCHOOL ADDITIONS AND RENOVATIONS BID PAC A - ADDENDUM 2

WOODSIDE
KENT COUNTY, DELAWARE

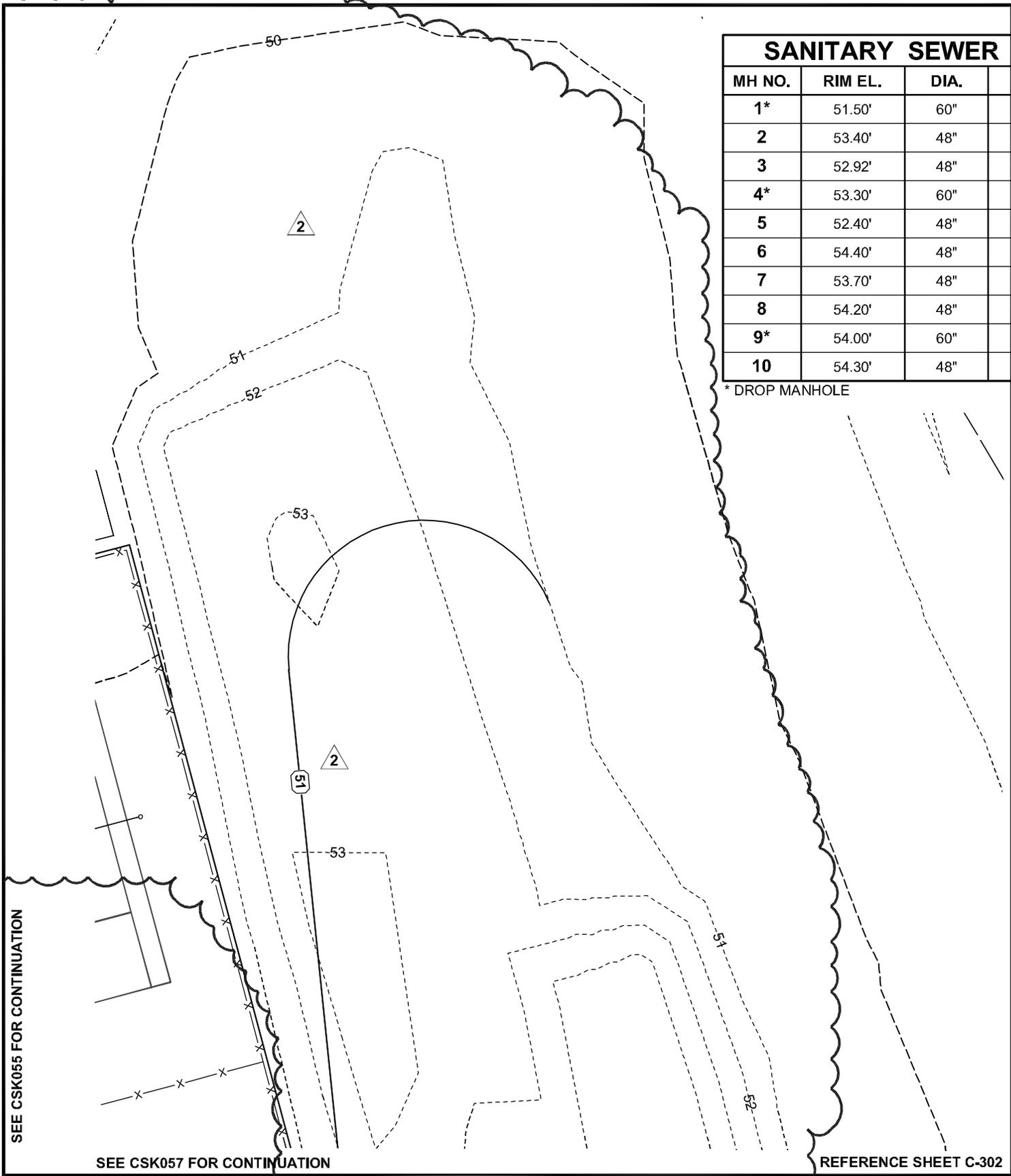


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CSK055



SANITARY SEWER			
MH NO.	RIM EL.	DIA.	
1*	51.50'	60"	
2	53.40'	48"	
3	52.92'	48"	
4*	53.30'	60"	
5	52.40'	48"	
6	54.40'	48"	
7	53.70'	48"	
8	54.20'	48"	
9*	54.00'	60"	
10	54.30'	48"	

* DROP MANHOLE

SEE CSK055 FOR CONTINUATION

SEE CSK057 FOR CONTINUATION

REFERENCE SHEET C-302

LAYER STATE: C-302

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 2**

WOODSIDE
KENT COUNTY, DELAWARE

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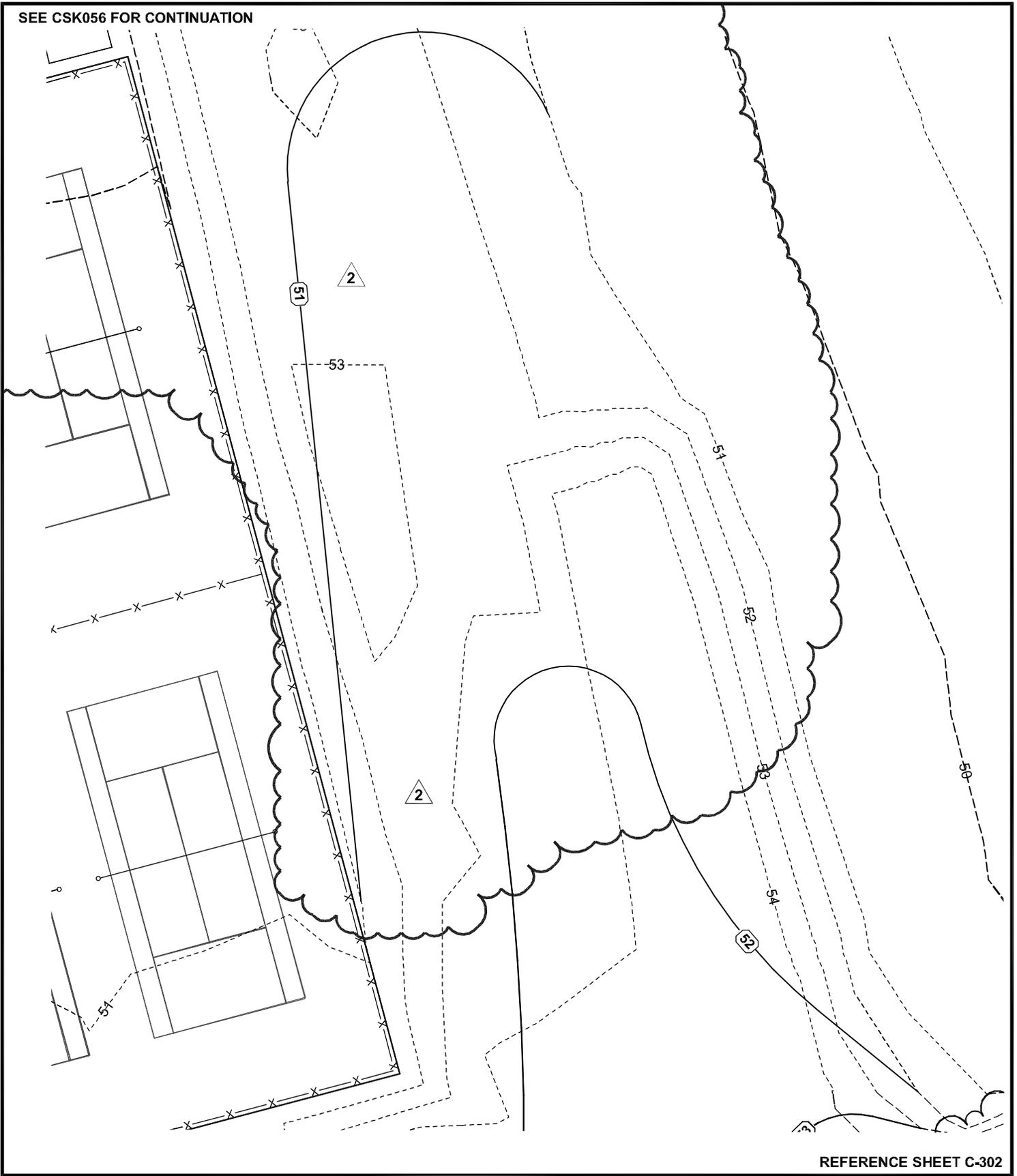
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CSK056

SEE CSK056 FOR CONTINUATION



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BID PAC A - ADDENDUM 2**

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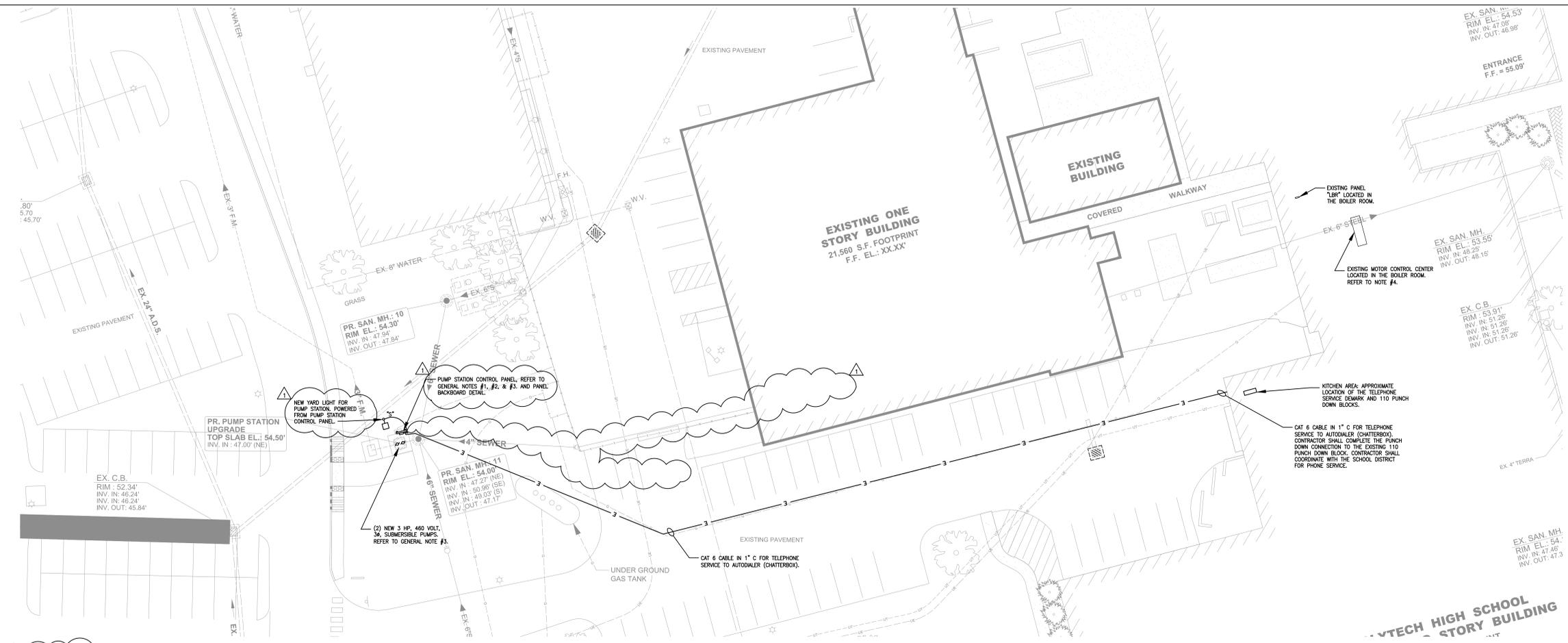
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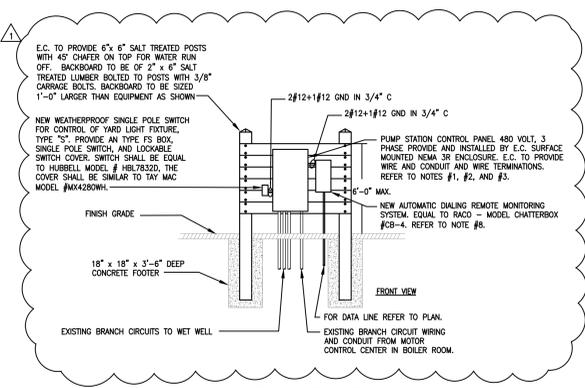
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CSK057



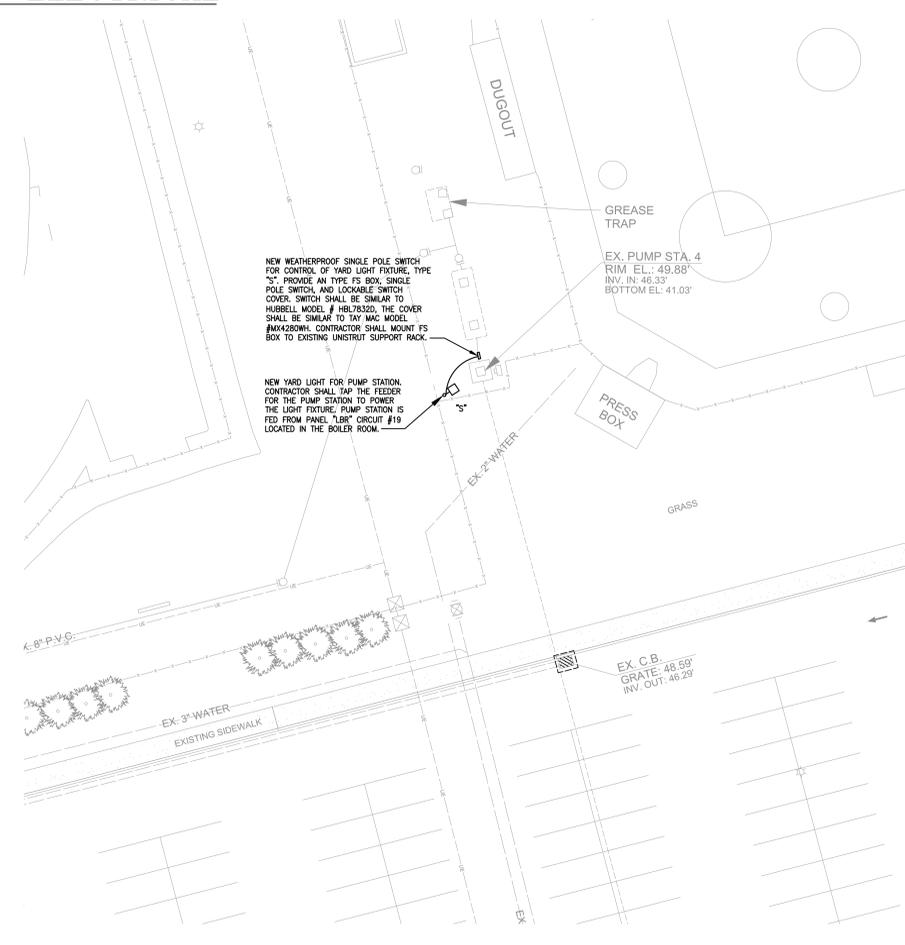
WEST PUMP STATION SITE PLAN - ELECTRICAL

1" = 20'



PANEL BACKBOARD DETAIL

NONE



NORTH PUMP STATION SITE PLAN - ELECTRICAL

1" = 20'

LIGHT FIXTURE SCHEDULE

- NOTES:**
- EQUIVALENT MANUFACTURERS: FIXTURES BY MANUFACTURERS LISTED AS EQUIVALENTS SHALL BE OF THE SAME TYPE, PERFORMANCE AND QUALITY OF THOSE SPECIFIED. EQUIVALENT MANUFACTURERS MUST MEET ALL CRITERIA OF THE BASE FIXTURE SPECIFIED. ANY DEVIATIONS WHICH DO NOT REFLECT THE BASE FIXTURE MAY RESULT IN A REJECTED SHOP DRAWING (DURING SUBMITTAL PERIOD). LISTED EQUIVALENTS DO NOT AUTOMATICALLY MEAN APPROVED. NO SUBSTITUTES ARE TO BE MADE WITHOUT PRIOR APPROVAL. REQUEST FOR SUBSTITUTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- | | |
|----------------------|---|
| TYPE: MFR: | "S" |
| CAT. #: | COOPER LIGHTING |
| LAMPS: | ICM-400-MH-480-35-SP-L-VA1008-DP |
| EQUIV. MFRS.: | (1) 400 WATT METAL HALIDE |
| REMARKS: | 30"-0" POLE AR80X30APC1F SPAULDING, LITHONIA |
| TYPE: MFR: | "S1" |
| CAT. #: | 27 11/16" ROUND TALL POLE MOUNTED HLD FIXTURE WITH DIE-CAST ALUMINUM HOUSING, STAMPED REVEAL, INTERIOR WELDED SEAMS, POLYESTER POWDER COAT FINISH, HAND MOUNTED BALLAST TRAY, SPUN STAMPED ALUMINUM REFLECTOR, FORMED ALUMINUM DOOR, HEAVY DUTY HINGES, FLAT TEMPERED GLASS LENS, MOUNT ON 30"-0" H X 6" ROUND STEEL POLE WITH DARK PLATINUM FINISH, TYPE II DISTRIBUTION, HFF BALLAST, 480V. |
| LAMPS: | 400 WATT METAL HALIDE |
| EQUIV. MFRS.: | 30"-0" POLE |
| REMARKS: | PROVIDE NEW BASE, CONDUITS AND WIRING AS INDICATED. |
| TYPE: MFR: | "S2" |
| CAT. #: | COOPER LIGHTING |
| LAMPS: | ICM-400-MH-480-35-SP-L-VA1020-DP |
| EQUIV. MFRS.: | (2) 400 WATT METAL HALIDE |
| REMARKS: | 30"-0" POLE AR80X30APC1F SPAULDING, LITHONIA |
| | SIMILAR TO TYPE "S" EXCEPT WITH TWO FIXTURES MOUNTED ON A COMMON POLE 180". |

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE WITH THE SITE CONTRACTOR FOR RENOVATION TO THE EXISTING PUMP STATION. CONTRACTOR SHALL DISCONNECT, TAKE-OFF, AND RETAIN THE EXISTING ELECTRICAL FEEDERS, BRANCH CIRCUIT WIRING, AND CONDUIT ASSOCIATED WITH THE EXISTING CONTROL PANEL AND PUMPS. CONTRACTOR SHALL REMOVE PANEL AND SUPPORT BRACKET.
- THE NEW PUMP CONTROL PANEL AND PUMPS ARE SUPPLIED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR (E.C.). E.C. SHALL COMPLETE ALL FINAL CONNECTIONS TO THE CONTROL PANEL. E.C. SHALL UTILIZE THE EXISTING CONDUITS FOR THE PUMP POWER CABLES AND CONTROL WIRING.
- CONTRACTOR SHALL RECONNECT THE EXISTING FEEDER CONDUITS AND CONDUIT TO THE NEW CONTROL PANEL AND PUMPS. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, FITTINGS, AND BRANCH CIRCUIT WIRING TO EXTEND THE ELECTRICAL CONNECTIONS TO THE NEW PUMP STATION.
- PUMP STATION IS FED FROM THE MOTOR CONTROL CENTER LOCATED IN THE BOILER ROOM.
- THE PANEL WILL BE SUPPLIED WITH MAIN DISCONNECT CIRCUIT BREAKERS; ALARM CIRCUIT BREAKER; TWO IEC-RATED MOTOR CONTACTORS; TWO SETS OF START AND RUN CAPACITORS (SINGLE-PHASE ONLY); TWO PLUG-IN CONTROL RELAYS; ALTERNATOR RELAY; TWO PUMP HAND-OFF-AUTO SWITCHES; RED ALARM LIGHT; AUDIBLE ALARM; ALARM SILENCE SWITCH; ENCLOSED WIRE WAY; TERMINAL BLOCKS; SPRING LUG; PORTABLE GENERATOR RECEPTACLE; AND ALL NECESSARY WIRING. TERMINAL STRIPS MUST HAVE A MINIMUM 3" CLEARANCE TO THE INSIDE WALL OF THE ENCLOSURE FOR EACH WIRING.
- THE CONTROL PANEL IS FITTED WITH A RED LEAN-ALARM-LIGHT. THE LIGHT SHALL REMAIN SOLELY ILLUMINATED FOR MOISTURE DETECTION IN THE LOWER SEAL CHAMBER OF THE PUMP. THE ALARM LIGHT SHALL FLASH, INDICATING A HIGH WATER ALARM CONDITION IN THE BASIN. THE LIGHT SHALL BE APPROXIMATELY 3" HIGH BY 2" DIAMETER, MOUNTED ON THE TOP SURFACE OF THE ENCLOSURE, VISIBLE FROM 360 DEGREES. THE BULB SHALL BE 40-WATT MINIMUM, HIGH INTENSITY, MEDIUM BASE TYPE. THE BULB OR LENS SHALL BE EASILY REPLACED BY REMOVING A THREADED SETSCREW AND LOCKING WASHER ON THE INTERIOR OF THE PANEL. THE LENS SHALL BE MOUNTED ON TOP OF THE ENCLOSURE WITH A NEOPRENE GASKET AND MUST MAINTAIN THE NEMA 4X RATING.
- THE ALARM CONDITION WILL PRODUCE A BRIGHT GLOWING ALARM LIGHT AND AUDIBLE BUZZER. THE AUDIBLE BUZZER CAN BE SILENCED BY MEANS OF THE SILENCE SWITCH INSIDE THE FRONT PANEL. THE RED INDICATOR LIGHT WILL REMAIN ILLUMINATED AS LONG AS THE ALARM CONDITION PERSISTS. BOTH FLASHING ALARM LIGHT AND AUDIBLE BUZZER WILL STOP WHEN THE WATER LEVEL DROPS TO NORMAL OPERATING CONDITIONS.
- CONTRACTOR SHALL PROVIDE A NEW AUTOMATIC DIALING REMOTE MONITORING SYSTEM (EQU. TO INCO - MODEL CHATTERBOX #CB-4). UNIT SHALL ALSO BE PROVIDED WITH A NEW 4X ENCLOSURE, ONE ANALOG CHANNEL, 24 HOUR BATTERY BACK, THERMOSTATICALLY CONTROLLED HEATER, LOCAL DATA LOGGER, AND LOCAL ALARM RELAY OUTPUT.



DATE: 08/02/2012

REVISION: ADDENDUM #2

NO. 1

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Mechanicstown, Pennsylvania 17065
Phone: (717) 458-0272 Fax: (717) 458-0047

DELAWARE ARCHITECTS, LLC
550 S. DUPONT BLVD., SUITE E - MILFORD, DE 19963
Office: 302-481-1947 Fax: 302-481-8648

POLYTECH SCHOOL DISTRICT ADDITIONS AND RENOVATIONS TO POLYTECH HIGH SCHOOL

PUMP STATION ELECTRICAL SITE PLAN

SCALE:	1"=20'
DESIGN BY:	WJS
DRAWN BY:	WJS
CHECKED BY:	SAJ
DRAWING FILE:	Project Number
DATE:	08-02-12

E302

1206 society drive · claymont, de 19703

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GENERAL SPECIFICATIONS – ELECTRICAL SYSTEMS

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ORDINANCES: ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, RULES AND REGULATIONS IN EFFECT. THE NATIONAL ELECTRICAL CODE SHALL REPRESENT THE MINIMUM REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, TESTS AND INSPECTIONS REQUIRED. FURNISH CERTIFICATE OF INSPECTION TO THE OWNER AT TIME OF COMPLETION.

WORK INCLUDED: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWING AND AS SPECIFIED HEREIN.

WORKMANSHIP: INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER. CUTTING AND PATCHING SHALL BE PERFORMED BY SKILLED TRADESMEN NORMALLY EMPLOYED FOR THE WORK INVOLVED.

TESTS: PROVIDE ALL REQUIRED TESTS TO ASSURE THAT ALL SYSTEMS ARE FREE OF GROUNDS, OPENS AND SHORTS.

GUARANTEED: ALL LABOR AND MATERIALS SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR OF OPERATION FROM DATE OF ACCEPTANCE BY THE OWNER.

THE INTERPRETATION OF THE OWNER'S REPRESENTATIVE WILL BE FINAL IN THE EVENT THERE IS A LACK OF UNDERSTANDING OF THE FULL SCOPE OR REQUIREMENTS OF THE SYSTEMS UNDER THIS CONTRACT.

THE WORK OF ALL TRADES SHALL BE COORDINATED. NECESSARY OFFSETS TO ALLOW CLEARANCE, HEADROOM OR AVOID INTERFERENCE SHALL BE PROVIDED.

SUBMIT SIX (6) COPIES OF SHOP DRAWINGS ON EACH PIECE OF EQUIPMENT TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. CONTRACTOR SHALL KEEP ONE (1) COPY OF APPROVED SHOP DRAWINGS AT THE JOB SITE.

SUBSTITUTION OF AN EQUAL OR BETTER PRODUCT OTHER THAN THAT SPECIFIED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE ENGINEER'S DECISION TO ACCEPT OR REJECT SHALL BE FINAL.

CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE WHAT EXISTING CONDITIONS WILL BE ENCOUNTERED. SUBMITTAL OF A PROPOSAL SHALL INDICATE THAT THE CONTRACTOR IS AWARE OF ALL EXISTING CONDITIONS.

EXCAVATION: THE EXCAVATION SHALL BE OF THE OPEN-TRENCH METHOD AND TO THE DEPTHS AND WIDTHS AS MAY BE NECESSARY. THE CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED IN CONNECTION WITH HIS WORK. BOTTOMS OF TRENCHES SHALL BE EXCAVATED TO A UNIFORM GRADE. ALL MATERIALS EXCAVATED SHALL BE DEPOSITED ON THE SIDE OF THE TRENCHES AND BEYOND THE REACH OF THE SLIDES. EXCAVATED MATERIAL SHALL NOT BE PILED WHERE IT WILL INTERFERE WITH TRAFFIC.

BACKFILLING: AFTER WORK IN TRENCHES HAS BEEN COMPLETED, THEY SHALL BE FILLED WITH GOOD, CLEAN, FINE EARTH IN 8" LAYERS AND SHALL BE PNEUMATICALLY TAMPED BEFORE THE NEXT LAYER OF MATERIAL HAS BEEN FILLED IN. THE BACKFILL SHALL BE FREE OF EXCAVATED ROCK, CONCRETE, STONES, BRICKS OR OTHER DEBRIS. RETURN GRASS AREA TO ORIGINAL CONDITION.

SERVICE INTERRUPTION:

ALL SERVICE INTERRUPTIONS TO THE ELECTRIC OR RELATED SYSTEMS, WHETHER DURING REGULAR WORKING HOURS OR AT ANY OTHER TIME, MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. ALL SUCH INTERRUPTIONS SHALL BE SO SCHEDULED AND PLANNED AS TO REQUIRE A MINIMUM OF TIME AND SHALL OCCUR ONLY DURING A MUTUALLY SATISFACTORY PERIOD.

THE CONTRACTOR SHALL PROVIDE TEMPORARY WIRING TO MINIMIZE THE PERIOD OF INTERRUPTION OF ANY SYSTEM. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO LIMIT ALL SYSTEM INTERRUPTIONS TO NIGHTS, WEEKENDS AND HOLIDAYS.

PROVIDE PERMANENT IDENTIFICATION LABELS ON ALL ELECTRICAL EQUIPMENT.

THE DRAWINGS AND NOTES INDICATE THE MAJOR ITEMS OF WORK TO BE INCLUDED IN THIS CONTRACT, BUT THIS CONTRACT SHALL INCLUDE THE REMOVAL, RELOCATION, RENEWAL AND REINSTALLATION OF ANY CONDUIT, WIRE, BOXES, FIXTURES, ETC., EXPOSED OR CONCEALED IN THE EXISTING BUILDING WHICH WILL INTERFERE WITH THE WORK OF THIS CONTRACT.

DEMOLITION WORK AT ALL TIMES SHALL BE SUBJECT TO THE DIRECTION AND APPROVAL OF THE OWNER'S REPRESENTATIVE AND IT SHALL BE CARRIED ON IN SUCH A MANNER AS NOT TO INTERFERE WITH THE OPERATION OF THE SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE DURING DEMOLITION SO THAT MATERIALS ARE PROMPTLY REMOVED AS THEY ARE UNCOVERED.

ELECTRICAL SYSTEM

THE SECONDARY DISTRIBUTION FOR THE PROJECT SHALL BE TAKEN FROM THE EXISTING SYSTEM AT 277/480 VOLT, 3 PHASE, 4 WIRE WITH THE FOLLOWING CHARACTERISTICS:

MOTORS 1/2 HP & LARGER - 480V, 3 PHASE, 3 WIRE

BRANCH WIRING: CONNECTIONS TO ALL LIGHTING FIXTURES, SWITCH AND RECEPTACLE DEVICES.

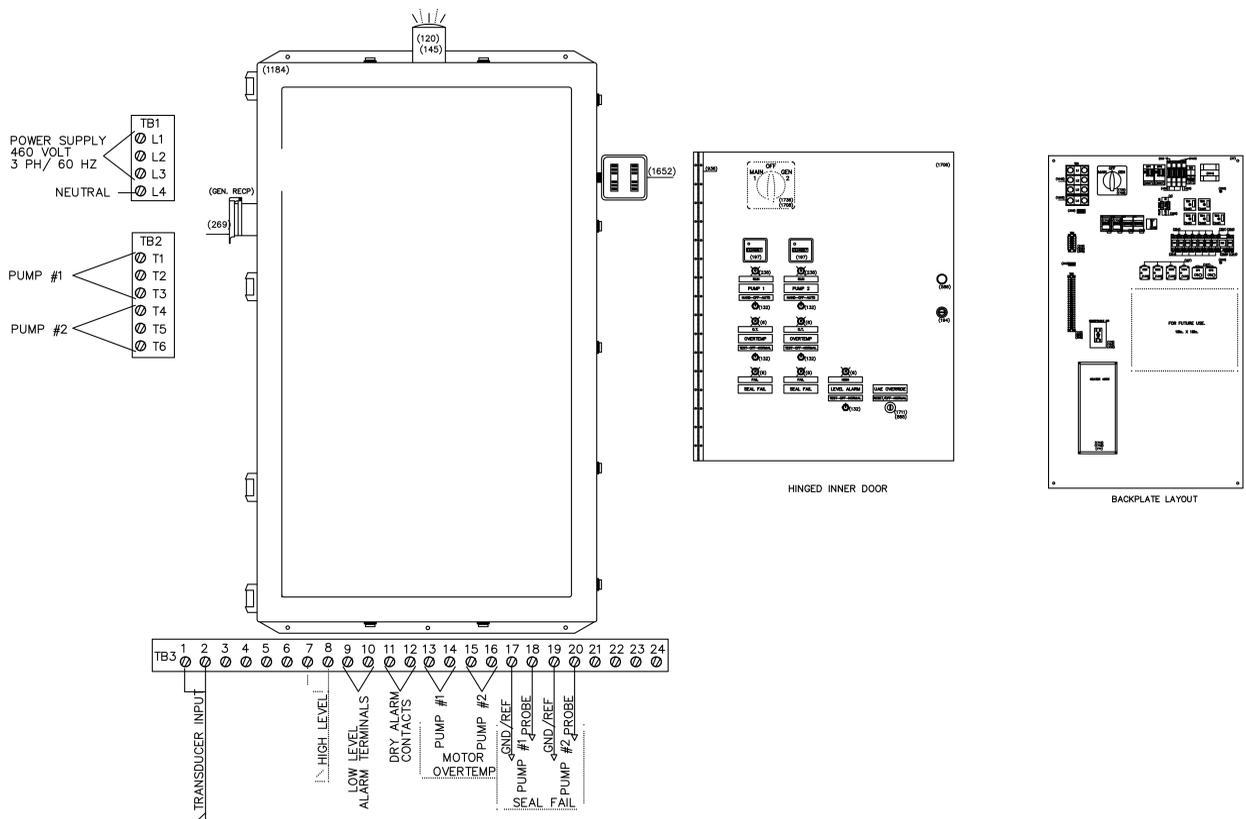
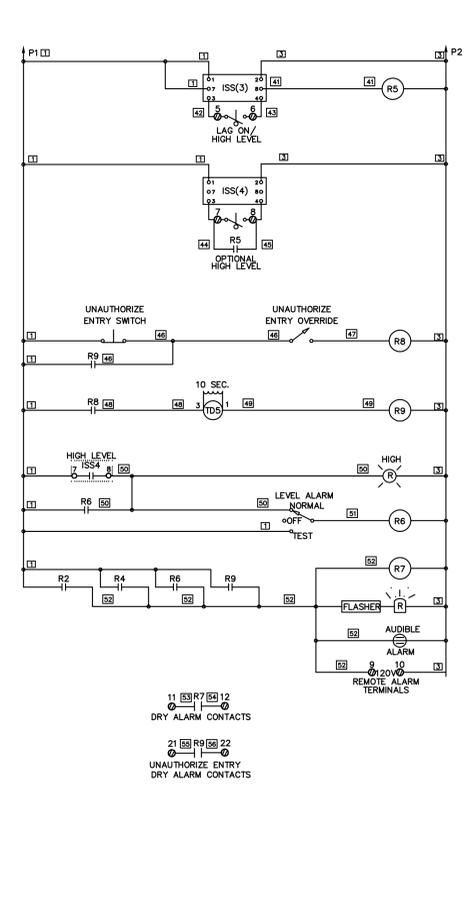
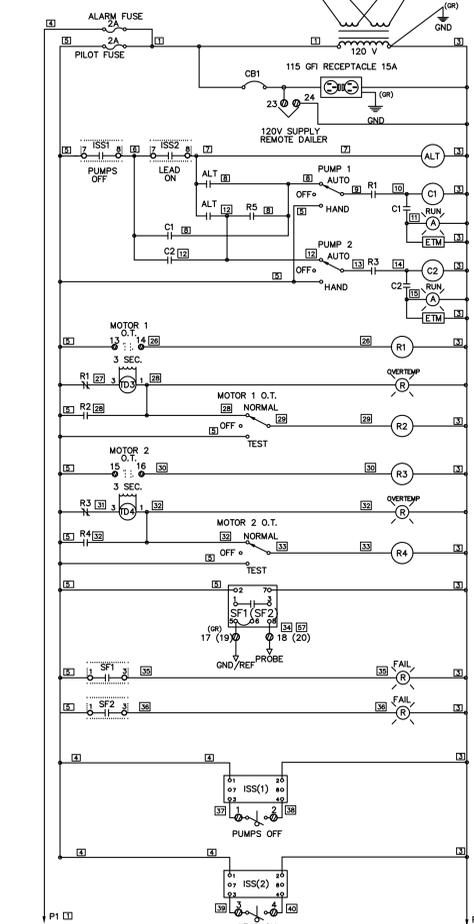
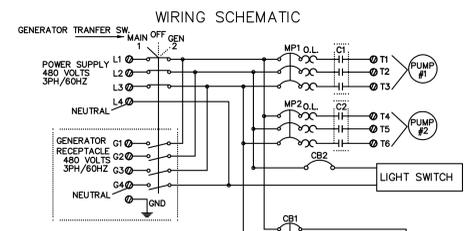
POWER WIRING: CONNECTIONS TO ALL MOTORS AND ELECTRICALLY OPERATED EQUIPMENT.

MATERIALS AND EQUIPMENT

RACEWAYS: RIGID STEEL CONDUIT.

SECONDARY CONDUCTORS: COPPER WITH 600 VOLT THERMOPLASTIC MOISTURE RESISTANT INSULATION, SOLID #10 AND SMALLER, STRANDED #8 AND LARGER.

CONDUIT AND WIRE: MINIMUM SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING. ALL WIRE SHALL BE COPPER CONDUCTORS. MINIMUM SIZE #12 AWG FOR LIGHT AND POWER AND #14 AWG FOR SIGNAL CONTROL. (NM, AC, MC) WIRING IS ACCEPTABLE FOR CONCEALED BRANCH CIRCUITING.



INSTALLER NOTES:

- 1 AN ADDITIONAL DISCONNECT(S) MAY BE REQUIRED. CONSULT NEC AND/OR LOCAL CODES.
- 2 SINGLE (1) PHASE PUMP MOTORS MUST HAVE INTEGRAL THERMAL OVERLOAD PROTECTION.
- 3 TEMPERATURE RATING OF FIELD INSTALLED COPPER CONDUCTORS MUST BE AT LEAST 140 DEGREES F. (60 DEGC. C.)
- 4 TERMINAL BLOCK (TB1) TORQUE TO No. ON SIDE OF BLOCK.
- 5 TERMINAL BLOCK (TB2) TORQUE 20 IN/LBS.
- 6 TERMINAL BLOCK (TB3) TORQUE 12 IN/LBS.
- 7 (000) DENOTES BILL OF MATERIALS ITEM NO.

EAST PUMP STATION CONTROL PANEL – ELECTRICAL

NTS



NO.	DATE
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POLYTECH SCHOOL DISTRICT
ADDITIONS AND RENOVATIONS TO
POLYTECH HIGH SCHOOL

PUMP STATION
ELECTRICAL
CONTROL PANEL

SCALE	NTS
DESIGN BY	WJS
DRAWN BY	WJS
CHECKED BY	SAJ
DALL FILE	Project Number
DATE	08-08-12

E303