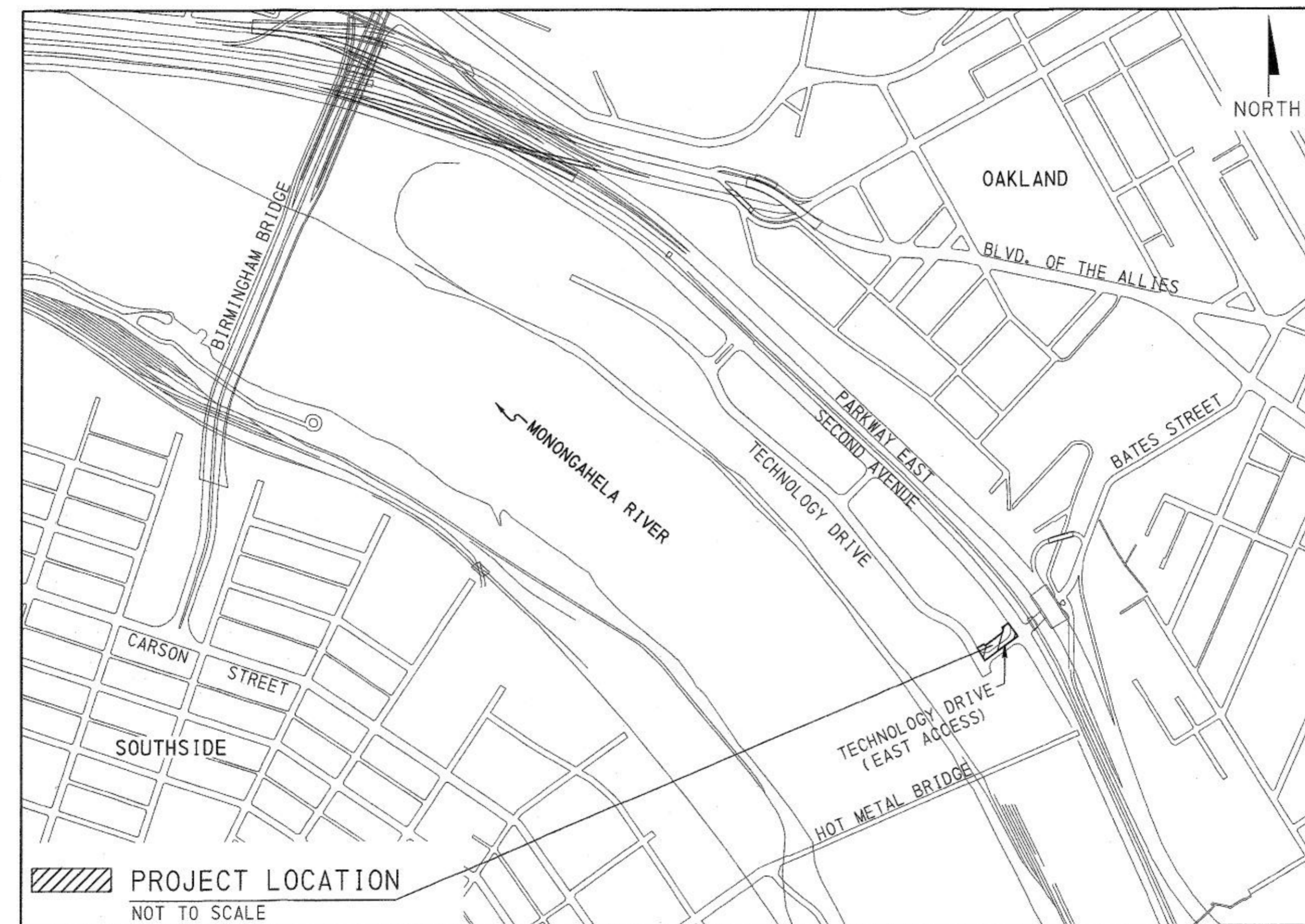
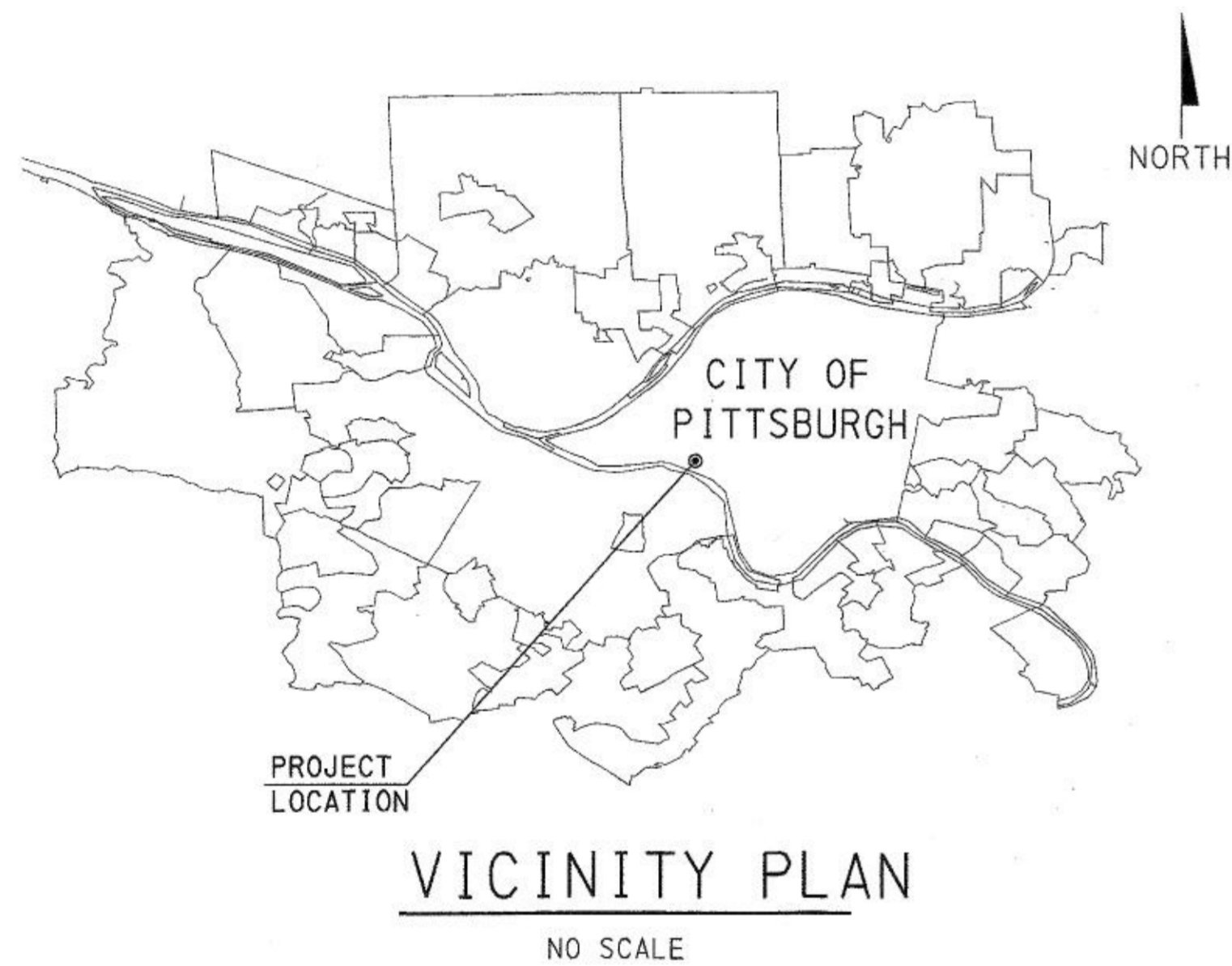


# PITTSBURGH TECHNOLOGY CENTER SITE PREPARATION CONTRACT NO. 14 TECHNOLOGY DRIVE (EAST ACCESS) PUBLIC IMPROVEMENTS AND OTHER WORK INCIDENTAL THERE TO



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### ALSO INCLUDED

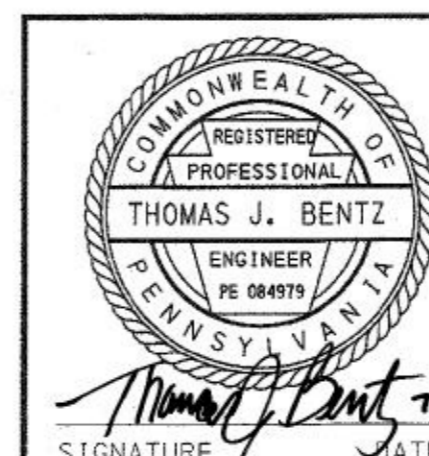
CROSS SECTIONS (TECHNOLOGY DRIVE EAST)

SHEET 1-6

CITY OF PITTSBURGH

|   |           |
|---|-----------|
| APPROVAL  | DATE      |
| <i>Emily Daspeck</i><br>STREETS DIVISION              | 7/7/17    |
| <i>Amanda Sincell</i><br>TRAFFIC ENGINEERING DIVISION | 7/25/2017 |
| <i>B. Adams</i><br>STREET LIGHTING DIVISION           | 7/10/17   |
| <i>[Signature]</i><br>ASSISTANT DIRECTOR, ENG.        | 7/25/17   |
| <i>Michael Soble</i><br>DIRECTOR                      | 8/1/2017  |

Record Drawings



PREPARED BY:  
AECOM  
GULF TOWER  
707 GRANT STREET, 5TH FLOOR  
PITTSBURGH, PENNSYLVANIA 15219  
  
THOMAS J. BENTZ P.E.  
PA. REGISTRATION NO. PE084979

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH  
*Charles J. Miller III* 12-19-18  
ASSISTANT DIRECTOR-ENGINEERING DATE  
*Mark R. Kimmel* 12/19/18  
DIRECTOR-ENGINEERING DATE

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH  
PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

TITLE SHEET

SCALE: NONE      SHEET NO.      ACCESSION NO. *A(019)-001*  
DATE: 2/23/17      1 OF 21      CASE NO. *C-5-1*

| REVISIONS |      |           |      |
|-----------|------|-----------|------|
| BY        | DATE | CHARACTER | DATE |
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3/29/2017 \\ussp1111\frp02\Projects\Transportation\1555\60445862\_Bates\_Street\_Expansion\Working\Cadd\Plans\Const\Bates\_Street\_1111eSht.dgn

**GENERAL NOTES**

**CONTRACT SPECIFICATIONS**

ALL WORK DONE AND MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS; THE CITY OF PITTSBURGH STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION, DATED NOVEMBER, 1938, AND JULY, 1955, WITH SUPPLEMENTS THERETO AND REVISIONS THEREOF, DATED MARCH, 1962; SUPPLEMENTAL SPECIFICATIONS FOR CONCRETE PAVEMENT AND BASE COURSE, DATED MARCH, 1978; THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408 (ENGLISH) SPECIFICATIONS, LATEST ADDITION, AND SUPPLEMENTS THERETO; THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION NO. 213; CURRENT CITY OF PITTSBURGH STANDARDS FOR CONSTRUCTION; THE PITTSBURGH WATER AND SEWER AUTHORITY WATERLINE AND SEWER SPECIFICATIONS, THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROADWAY CONSTRUCTION AND THE CONTRACT DRAWINGS.

THE CONTRACTOR SHALL PROVIDE ALL ENGINEERING AND SURVEY SERVICES NECESSARY TO LOCATE AND INSTALL ITEMS AS SHOWN ON THE CONTRACT DRAWINGS AT NO ADDITIONAL PAYMENT.

**EXISTING STREET SIGNS**

THE CONTRACTOR SHALL REMOVE, PRESERVE AND REINSTALL STREET SIGNS WHERE REQUIRED AND AS INDICATED ON SIGNAGE PLAN.

**MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION**

TRAFFIC MUST BE MAINTAINED THROUGH THE PROJECT AREA AT ALL TIMES USING THE PROCEDURES OUTLINED IN THE CONTRACT DOCUMENTS. PRIOR TO CLOSING ANY LANE OF THE STREET, AND IF THE CONTRACTOR WANTS TO REVERSE THE TRAFFIC CONTROL PLAN HE MUST SUBMIT FOR APPROVAL A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN TO THE CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS BUREAU OF TRANSPORTATION AND ENGINEERING FOURTEEN (14) DAYS PRIOR TO THE INTERRUPTION OF TRAFFIC. THE CONTRACTOR SHALL ALSO PROVIDE ACCESS TO ALL PRIVATE PARKING LOT DRIVEWAYS ON THE STREETS UNDER CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PITTSBURGH, PRIOR TO THE INTERRUPTION OF TRAFFIC, AT NO ADDITIONAL PAYMENT.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES, WALKWAYS, AND SIGNS NECESSARY TO MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC FLOW. THE LOCATIONS OF THE AFOREMENTIONED ITEMS ARE SUBJECT TO THE APPROVAL OF THE CITY OF PITTSBURGH. PENNDOT PUBLICATION NO. 213 MUST BE ADHERED TO AT ALL TIMES AS A MINIMUM STANDARD AND THE TRAFFIC CONTROL PLAN.

**REMOVAL AND DISPOSAL OF OLD MATERIALS (PWSA)**

ALL SEWER AND WATER CASTINGS REMOVED SHALL BE DELIVERED TO THE PITTSBURGH WATER AND SEWER AUTHORITY, BRILLIANT YARD.

ALL OLD MATERIALS REMOVED UNDER THIS CONTRACT AND NOT REUSED, OR NOT WANTED BY THE PITTSBURGH WATER AND SEWER AUTHORITY (INCLUDING SEWER AND WATER CASTINGS), SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. THERE WILL BE NO ADDITIONAL PAYMENT FOR THIS WORK.

**WATER LINE WORK (PWSA)**

WATER LINE WORK SHALL BE DONE IN ACCORDANCE WITH THE PITTSBURGH WATER AND SEWER AUTHORITY SPECIFICATIONS AND THE APPROVAL OF THE PITTSBURGH WATER AND SEWER AUTHORITY (P.W.S.A.). ONLY P.W.S.A. OPERATION DIVISIONS PERSONNEL WILL OPERATE WATER MAIN VALVES.

**USE OF EXPLOSIVES**

THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.

**DRAINAGE FACILITIES (PWSA)**

ALL SEWER LINES, MANHOLES, AND CATCH BASINS CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE URA. PRIOR TO THE BEGINNING OF TESTING, THE CONTRACTOR SHALL CONTACT THE PITTSBURGH WATER AND SEWER AUTHORITY (PWSA).

ALL EXISTING SEWERS THAT ARE NOT REPLACED UNDER THIS CONTRACT, SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO ORIGINAL CONDITIONS. ANY DETERIORATION IN THE CONDITION OF THE SEWERS RESULTING FROM THE CONTRACTOR'S OPERATIONS, SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE URA.

THE COST OF THESE OPERATIONS SHALL BE INCIDENTAL TO THE UNIT PRICES BID FOR THE VARIOUS CONTRACT ITEMS.

**SAW-CUTTING**

ALL EXISTING SIDEWALKS, DRIVEWAYS, AND STREET PAVEMENT SHALL BE SAW-CUT, FULL DEPTH, AS SHOWN ON THE CONTRACT DRAWINGS. PAYMENT FOR SAW-CUTTING IS INCIDENTAL TO THE VARIOUS ITEMS OF WORK.

**ENVIRONMENTAL CONTROL**

THE CONTRACTOR SHALL AT ALL TIMES OBSERVE, COMPLY WITH, AND POST AS REQUIRED, ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND REGULATIONS CONCERNING ENVIRONMENTAL AND/OR POLLUTION CONTROLS IN ANY MANNER AFFECTING THE CONDUCT OF THE WORK OR APPLYING TO EMPLOYEES ON THE PROJECT, AS WELL AS ALL ORDERS OR DECREES WHICH HAVE BEEN OR MAY BE PROMULGATED OR ENACTED BY ANY LEGAL BODIES OR TRIBUNALS HAVING AUTHORITY OR JURISDICTION OVER THE WORK, MATERIALS, EMPLOYEES, OR CONTRACT.

THE FOLLOWING CONTROLS SHALL BE ADHERED TO IN AN EFFORT TO MAINTAIN THE QUALITY OF THE ENVIRONMENT IN THE PROJECT AREA DURING THE DEVELOPMENT OF THIS PROJECT.

1. AIR POLLUTION CONTROL- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STANDARDS, ORDERS, OR REGULATIONS ISSUED PURSUANT TO THE CLEAN AIR ACT OF 1970.

NO BURNING IN ANY MANNER WILL BE PERMITTED ON THIS PROJECT. IN ADDITION, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE FUGITIVE DUST, PARTICULARLY IN AREAS WHERE OCCUPIED DWELLINGS ARE LOCATED AND IN AREAS WHERE TRAFFIC PATTERNS MAY INTERSECT THE CONSTRUCTION PROJECT. WORK AREAS CAUSING FUGITIVE DUST SHALL BE TREATED WITH CALCIUM CHLORIDE OR OTHER APPROVED DUST CONTROL PALLIATIVES AS DIRECTED.

2. TEMPORARY WATER POLLUTION AND SOIL EROSION CONTROLS- THE CONTRACTOR SHALL PROVIDE TEMPORARY CONTROL MEASURES AS DIRECTED BY THE ENGINEER DURING THE LIFE OF THE CONTRACT TO CONTROL WATER POLLUTION.

THE CONTRACTOR SHALL EXERCISE ADDITIONAL PRECAUTIONS AS FOLLOWS:

- (A) MINIMIZE THE AMOUNT OF EXPOSED ERODIBLE EARTH.
- (B) LOCATE TOILETS PROPERLY.
- (C) DO NOT EXPOSE ANY EMPLOYEES KNOWN TO HAVE SERIOUS WATER-BORNE ILLNESSES TO THE WATERSHED AREA.
- (D) USE SOUND JUDGMENT IN LOCATING STORAGE AREAS AND FUEL DEPOTS.
- (E) TAKE SUFFICIENT PRECAUTIONS TO PREVENT POLLUTION OF STREAMS WITH FUELS, OILS, BITUMENS, CALCIUM CHLORIDE OR OTHER HARMFUL MATERIALS.

3. NOISE CONTROL- THE CONTRACTOR SHALL USE EVERY EFFORT AND EVERY MEANS POSSIBLE TO MINIMIZE NOISE CAUSED BY HIS OPERATIONS. THE CONTRACTOR SHALL PROVIDE WORKING MACHINERY AND EQUIPMENT DESIGNED TO OPERATE WITH THE LEAST POSSIBLE NOISE AND WHEN GRINDING IS USED, SUCH GRINDING SHALL BE OF A TYPE DESIGNED TO REDUCE NOISE TO A MINIMUM. COMPRESSORS SHALL BE EQUIPPED WITH SILENCERS ON INTAKE LINES. ALL GAS OR OIL OPERATED EQUIPMENT SHALL BE EQUIPPED WITH SILENCERS OR MUFFLERS ON INTAKE AND EXHAUST LINES. WHEREVER PRACTICAL, ELECTRICITY SHALL BE USED FOR POWER TO REDUCE NOISE, UNLESS OTHERWISE STIPULATED IN THE CONTRACT SPECIFICATIONS. WHERE REQUIRED BY AGENCIES HAVING JURISDICTION, CERTAIN NOISE-PRODUCING WORK MAY HAVE TO BE PERFORMED DURING OTHER THAN REGULAR WORKING HOURS OR AT SPECIFIED PERIODS ONLY.

PAYMENT FOR COST INVOLVED IN MAINTAINING AIR POLLUTION CONTROL, SOIL EROSION CONTROL, AND NOISE CONTROL SHALL BE INCIDENTAL TO THE UNIT PRICES BID FOR THE VARIOUS CONTRACT ITEMS.

4. PLACE SUBBASE MATERIAL TO PREVENT EROSION OF THE SUBGRADE AS EXCAVATION FOR NEW PAVEMENT OR SIDEWALK PROCEEDS. AN EXCEPTION MAY BE MADE IF THE EXCAVATION IS A SUMP WITH NO SIGNIFICANT POTENTIAL FOR FLOWING WATER TO CAUSE SEDIMENT POLLUTION.

5. KEEP OVER-THE-ROAD VEHICLES ON STABILIZED SURFACES ONLY TO PREVENT TRACKING OF SOIL ONTO PAVEMENT. IMMEDIATELY CLEAN UP DIRT TRACKED ONTO PAVEMENT WHEN CONSTRUCTION EQUIPMENT EXITS DISTURBED AREAS.

6. WHERE PUMPING IS NECESSARY TO DEWATER DISTURBED AREAS, DISCHARGE TO A SEDIMENT FILTER BAG IN A WELL VEGETATED AREA. MANAGE PUMPING RATE TO PREVENT SEDIMENT POLLUTION.

7. TOPSOIL & SOD SHOULD BE TEMPORARILY STOCKPILED AND COVERED WITH A TARP OR PLASTIC WRAPPED UNDER THE UPSLOPE SIDE OF THE PILE TO PROTECT AGAINST EROSION BY UPSLOPE RUNOFF.

8. PROVIDE INLET FILTER BAGS FOR INLETS DOWNSLOPE OF DISTURBED AREAS.

9. IF NECESSARY, PROVIDE COMPOST SOCK WASHOUT FACILITY AT LOCATION SHOWN TO WASH CONCRETE TRUCKS.

**CURB AND SIDEWALK JOINTS**

ALL CURB AND SIDEWALK JOINTS SHALL BE SEALED WITH SIKAFLEX-1A AS MANUFACTURED BY SIKA CORPORATION, OR APPROVED EQUAL, AND SHALL BE CONCRETE IN COLOR. THE COST OF THIS OPERATION SHALL BE INCIDENTAL TO THE UNIT PRICES BID FOR THE VARIOUS CONTRACT ITEMS.

**ABANDONED UTILITY, SEWER, AND WATER LINES**

DURING THE UNDERCUTTING OPERATION ANY ABANDONED UTILITY, SEWER, AND WATER LINE ENCOUNTERED WILL BE IDENTIFIED, TESTED, AND REMOVED OR GROUTED. THIS WORK IS CONSIDERED INCIDENTAL TO EXCAVATION.

**EXISTING ELECTRICAL CONDUIT**

ALWAYS ASSUME THE EXISTING ELECTRICAL CONDUITS ARE ACTIVE AND CONTAIN HIGH VOLTAGE ENERGIZED CABLE. CONTACT DUQUESNE LIGHT COMPANY FOR COORDINATION AND DIRECTION BEFORE STARTING WORK.

**POWER SOURCES FOR STREET LIGHTING SYSTEM (DPW)**

CONTRACTOR MUST COORDINATE ALL SERVICE CONNECTIONS AND DISCONNECTIONS WITH THE DEPARTMENT OF PUBLIC WORKS STREET LIGHTING DIVISION. (DPW STREET LIGHTING DIVISION WILL CONTACT DUQUESNE LIGHT COMPANY)

DUQUESNE LIGHT WILL MAKE THE SECONDARY SERVICE CONNECTIONS AT ALL POLES OR INSIDE THE MANHOLES. ONLY DUQUESNE LIGHT CAN MAKE THESE CONNECTIONS. THE CONTRACTOR WILL BE BILLED BY DUQUESNE LIGHT FOR THIS SERVICE.

DO NOT USE THESE MANHOLES AS PULL POINTS.

**CLEANING PAVEMENT STRUCTURES**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL GAS AND WATER BOXES, MANHOLES, INLETS, ETC. AFTER PAVING IS COMPLETED. THERE WILL BE NO ADDITIONAL PAYMENT FOR THIS WORK.

**NIGHT, HOLIDAY, AND WEEKEND WORK**

NIGHT WORK, CITY OF PITTSBURGH HOLIDAYS AND WEEKEND WORK- THE CONTRACTOR SHALL NOT PERFORM ANY WORK DURING THE ABOVE PERIODS EXCEPT WHEN ORDERED BY THE URA AND/OR AT THE REQUEST OF THE CONTRACTOR WITH THE APPROVAL OF THE URA.

**PUBLIC UTILITIES**

THE FOLLOWING PUBLIC UTILITIES MAY HAVE LINES IN THE VICINITY OF THIS PROJECT:

- W — THE PITTSBURGH WATER AND SEWER AUTHORITY (P.W.S.A.)  
PENN LIBERTY PLAZA 1  
1200 PENN AVENUE  
PITTSBURGH, PA. 15222  
MR. GEORGE ROBINSON, (412) 255-8935
- E — DUQUESNE LIGHT COMPANY  
2841 NEW BEAVER AVENUE  
PITTSBURGH, PA. 15233  
MR. JIM RUNATZ (412) 393-8053
- SAN — ALLEGHENY COUNTY SANITARY AUTHORITY (ALCOSAN)  
330 PREBLE AVENUE  
PITTSBURGH, PA 15233  
MR. DAVE BORNEMAN (412) 766-4810 EXT 8369
- G — PEOPLES NATURAL GAS COMPANY  
1201 PITT STREET  
PITTSBURGH, PA. 15221  
MR. PAUL HESS (412) 244-4381
- FOU — CITY OF PITTSBURGH TRAFFIC CONTROL DIVISION  
2625 LIBERTY AVENUE  
PITTSBURGH, PA. 15222  
MR. GLENN HANE (412) 255-2873

PA ONE CALL SYSTEM, INC.  
PHONE NO.: 1-800-242-1776  
(DESIGNER'S SERIAL NO. 20153072825)

**CITY OF PITTSBURGH CONTACTS:**

CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING  
301 CITY-COUNTY BUILDING  
414 GRANT STREET  
PITTSBURGH, PA. 15219  
MS. EMILY GASPICH (412) 255-2472

CITY OF PITTSBURGH, DEPARTMENT OF PUBLIC WORKS (STREET LIGHTING)  
611 SECOND AVENUE  
PITTSBURGH, PA. 15219  
MR. BEN CARLISE (412) 255-2435

CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING (TRAFFIC DIVISION)  
301 CITY-COUNTY BUILDING  
414 GRANT STREET  
PITTSBURGH, PA. 15219  
MS. AMANDA PURCELL, PE (412) 255-8846

**EXISTING PUBLIC FACILITIES AND UTILITIES (PA ONE-CALL)**

PRIOR TO ANY EXCAVATION OR DEMOLITION WORK IN THE VICINITY OF UNDERGROUND UTILITIES, THE CONTRACTOR MUST CONTACT THE PA. ONE CALL SYSTEM, INC. (1-800-242-1776 REFERENCING SERIAL NUMBER 20153072825) AND COMPLY WITH THE PROVISIONS OF PA ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996. THE CONTRACTOR SHALL ALSO IDENTIFY ALL OVERHEAD LINES, NOTIFY AND COMPLY WITH THE APPLICABLE UTILITY COMPANY'S CLEARANCE REQUIREMENTS.

ANY OR ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE ALL PRECAUTIONS TO PREVENT DAMAGE TO ALL UTILITIES. THE CONTRACTOR SHALL ARRANGE AND COOPERATE WITH UTILITY COMPANIES, SCHEDULING WORK IN SUCH A MANNER THAT NEEDLESS CONFLICT WILL BE AVOIDED.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE AS-BUILT PLANS AND RECORDS. THEREFORE, THEIR LOCATIONS AND SIZES MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. SEVERAL UTILITIES HAVE BEEN ABANDONED IN PLACE WHILE OTHERS WERE PARTIALLY REMOVED. THE CITY WILL NOT BE RESPONSIBLE FOR ANY VARIATIONS FOUND DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITY LINES IN THE PROJECT AREA. THE CONTRACTOR SHALL DETERMINE IN HIS OWN WAY THE OBSTRUCTIONS AND DIFFICULTIES TO BE ENCOUNTERED IN THE PROSECUTION OF THE WORK UNDER THIS CONTRACT AND ANY ADDITIONAL EXPENSE INCURRED ON ACCOUNT OF SUCH OBSTRUCTIONS AND DIFFICULTIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF WORK.

**EXISTING COMBINATION SEWER SYSTEM (PWSA)**

THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO MAINTAIN FLOWS, AT ALL TIMES, THROUGH EXISTING FACILITIES TO REMAIN IN SERVICE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL THE NEW FACILITIES ARE COMPLETED AND PLACED IN SERVICE.

THE COST OF MAINTAINING THE FLOWS BY PUMPING OR BY ANY OTHER MEANS, AS APPROVED BY THE DIRECTOR OR THE CITY FIELD REPRESENTATIVE, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS SEWER ITEMS.

**BASE MAPPING**

THE BASE MAPPING UTILIZED FOR THIS PROJECT WAS PROVIDED BY THE URA. AECOM HAS NOT VERIFIED OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE MAPPING. DATE OF SURVEY: JANUARY 2007.

VERTICAL CONTROL IS BASED ON CITY OF PITTSBURGH SURVEY MONUMENT.

ALL CURVE DATA IS BASED ON ARC DEFINITION UNLESS OTHERWISE NOTED.

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROADWAY CONSTRUCTION, REFER TO THE FOLLOWING STANDARD DRAWINGS:

| STANDARD DRAWING | DATE APPROVED | STANDARD DRAWING | DATE APPROVED |
|------------------|---------------|------------------|---------------|
| RC-10M           | JUNE 01, 2010 | TC-8600 (13)     | JUNE 03, 2013 |
| RC-13M           | JUNE 01, 2010 | TC-8700C (12)    | JUNE 03, 2013 |
| RC-20M (12)      | SEPT 15, 2016 | TC-8702B (9)     | JUNE 03, 2013 |
| RC-21M           | JUNE 01, 2010 | TC-8716          | JUNE 03, 2013 |
| RC-30M (5)       | JUNE 01, 2010 | TC-8717          | JUNE 03, 2013 |
| RC-67M (14)      | JUNE 10, 2013 | TC-8801 (10)     | DEC 12, 2011  |
| RC-70M (3)       | SEPT 15, 2016 | TC-8803 (4)      | DEC 12, 2011  |
| RC-72M (7)       | JUNE 01, 2010 | TC-8804 (2)      | DEC 12, 2011  |
| RC-77M           | JUNE 01, 2010 | TC-8805          | DEC 12, 2011  |
| RC-84M (2)       | JUNE 01, 2010 |                  |               |

**URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH**

**PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS**

**CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING**

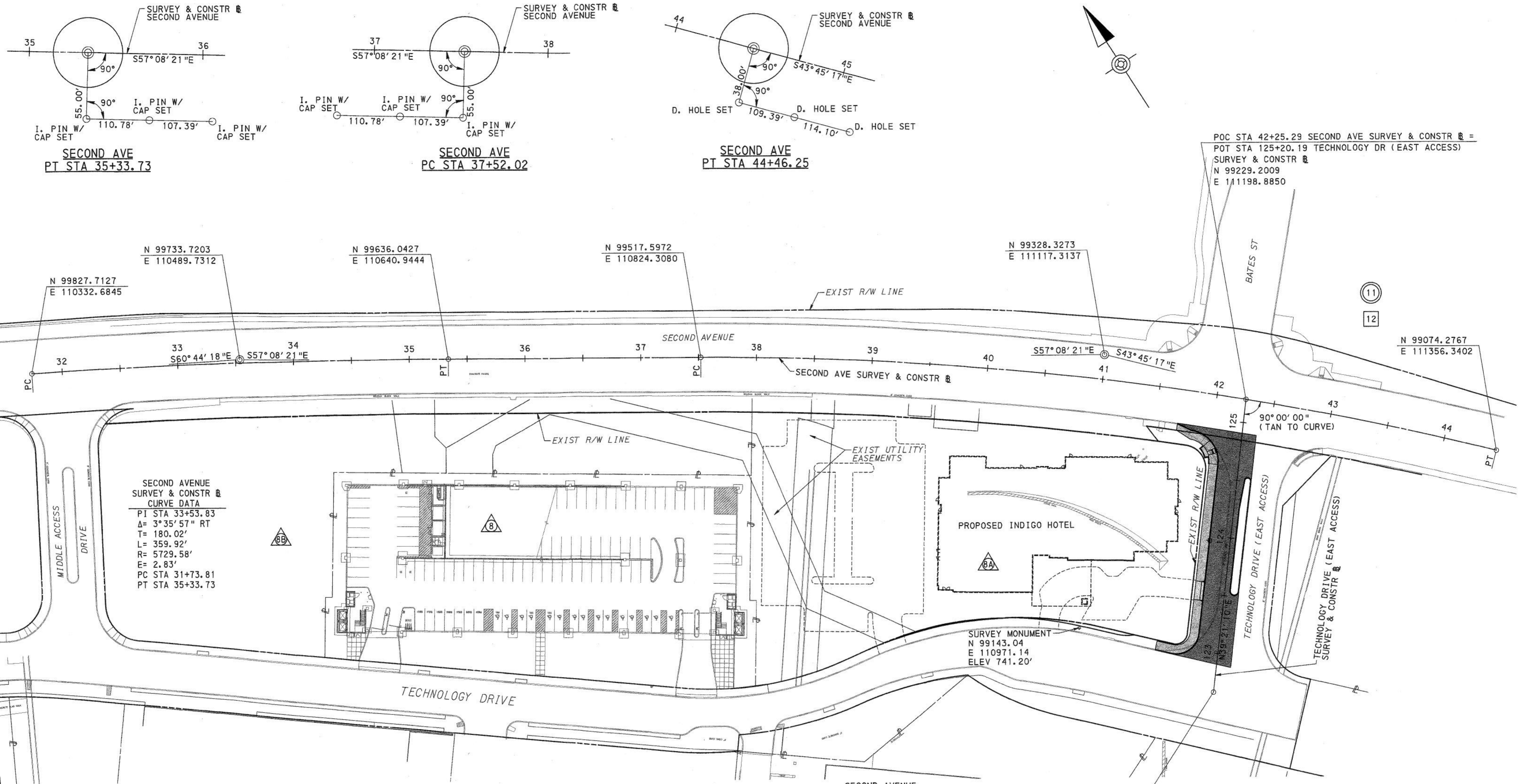
**GENERAL NOTES**

SCALE: NONE SHEET NO. ACCESSION NO. A(01)-002  
DATE: 2/23/17 2 OF 21 CASE NO. C-5-1

Record Drawings

| FIELD DATA | DRAMA     | SUPERV-SO | REVISIONS |  |
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| BY         | DATE      | CHARACTER | DATE      |  |
| CHECKED    | INSPECTED | CONSTR.   |           |  |
| DATE       | DATE      |           |           |  |

3/28/2017 \\p002\p002\Projects\Transportation\155560445862\_Batels\_Straet.W\Item\ng\Cadda\Plan\Cons\tr\Batels\_GenNotes.dgn



POC STA 42+25.29 SECOND AVE SURVEY & CONSTR  $\square$  =  
 POT STA 125+20.19 TECHNOLOGY DR (EAST ACCESS)  
 SURVEY & CONSTR  $\square$   
 N 99229.2009  
 E 111198.8850

SECOND AVE  
 PT STA 35+33.73

SECOND AVE  
 PC STA 37+52.02

SECOND AVE  
 PT STA 44+46.25

SECOND AVENUE  
 SURVEY & CONSTR  $\square$   
 CURVE DATA  
 PI STA 33+53.83  
 $\Delta = 3^{\circ} 35' 57''$  RT  
 T = 180.02'  
 L = 359.92'  
 R = 5729.58'  
 E = 2.83'  
 PC STA 31+73.81  
 PT STA 35+33.73

SECOND AVENUE  
 SURVEY & CONSTR  $\square$   
 CURVE DATA  
 PI STA 41+00.84  
 $\Delta = 13^{\circ} 53' 04''$  RT  
 T = 348.82'  
 L = 694.22'  
 R = 2864.79'  
 E = 21.16'  
 PC STA 37+52.02  
 PT STA 44+46.25

POT STA 122+66.66  
 TECHNOLOGY DR  
 (EAST ACCESS) CONSTR  $\square$   
 N 99033.1568  
 E 111038.1423

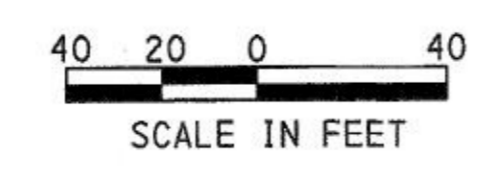
**LIST OF PROPERTY OWNERS**

- $\triangle$  PITTSBURGH TECHNOLOGY CENTER
- $\triangle$  PTC LODGING, LLC
- $\triangle$  PITTSBURGH TECHNOLOGY CENTER

**LEGEND**

- $\square$  PLAN
- $\square$  PROFILE
- $\triangle$  PARCEL IDENTIFICATION NUMBER

**INDEX & GEOMETRIC PLAN**



Record Drawings

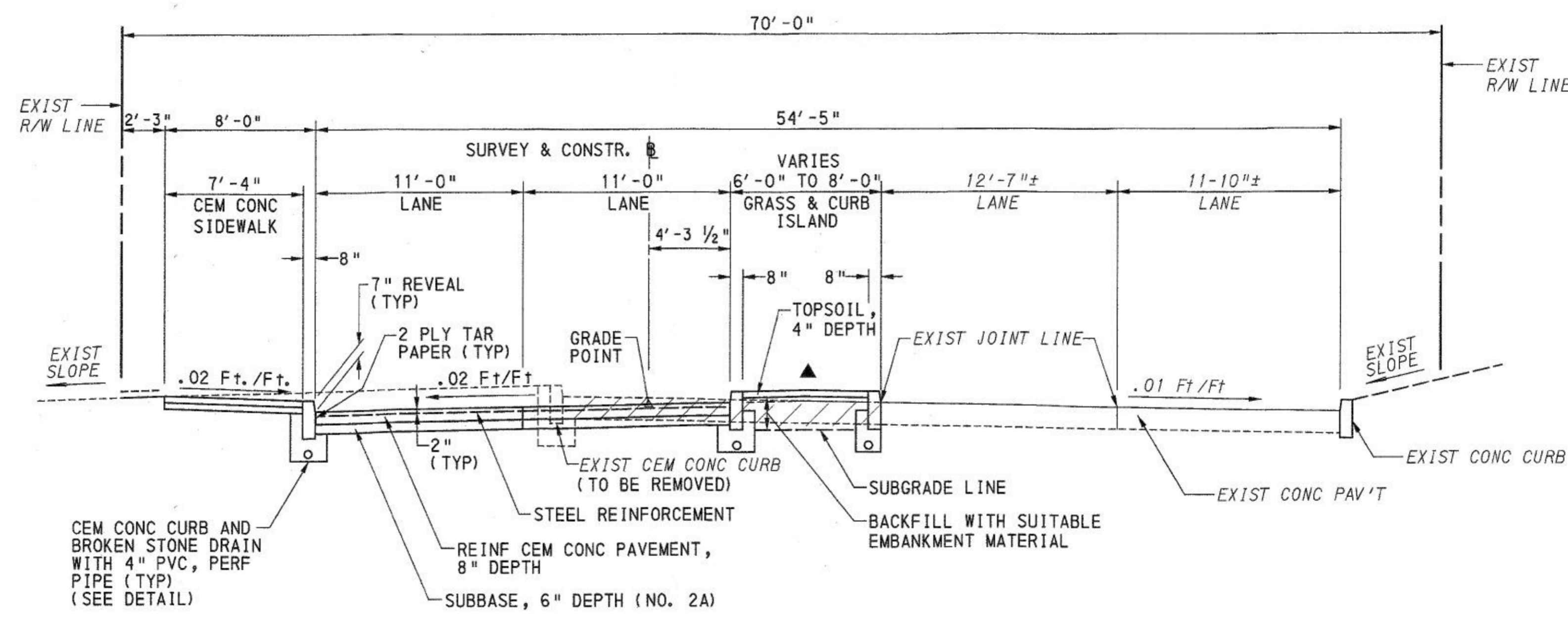
URBAN REDEVELOPMENT AUTHORITY  
 OF PITTSBURGH  
 PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT NO. 14  
 TECHNOLOGY DRIVE (EAST ACCESS)  
 IMPROVEMENTS  
 CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF  
 TRANSPORTATION AND ENGINEERING

INDEX & GEOMETRIC PLAN  
 SCALE: AS SHOWN SHEET NO. ACCSSION NO. A(19)-003  
 DATE: 2/23/17 3 OF 21 CASE NO. C-5-1

| FIELD DATA | DRWN | SURVEY SD | REVISIONS |      |
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| BY         |      |           | CHARACTER | DATE |
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3/29/2017 \\usp111fp002\data\p\proj\ecis\transport\at\on\1555\60445862-Bates\_S\Street\_1\Ident\ing\Cadd\p\ans\Const\Bates\_S\Street\_1\p\lan\_Shr101.dgn

3/28/2017 \\usp1111\p002\Drawings\Projects\Transportation\1555\6045862\Bates\_Street\_11\Drawings\Cadd\Plans\Constr\Bates\_TypSect.dgn



**TECHNOLOGY DRIVE (EAST ACCESS)**

NTS  
STA 123+15.27 TO STA 124+65.79

**LEGEND**

- EXIST CONCRETE PAVEMENT REMOVAL
- SEE LANDSCAPE PLAN, SHEET 14 OF 21
- SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING HAY MULCH

| FIELD DATA |           |             | REVISIONS |      |
|------------|-----------|-------------|-----------|------|
| BY         | DATE      | SUPPLY      | CHARACTER | DATE |
| CHECKED    | INSPECTED | CON. CONGT. |           |      |
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| CALC.      | BOOK      | PG.         |           |      |

Record Drawings

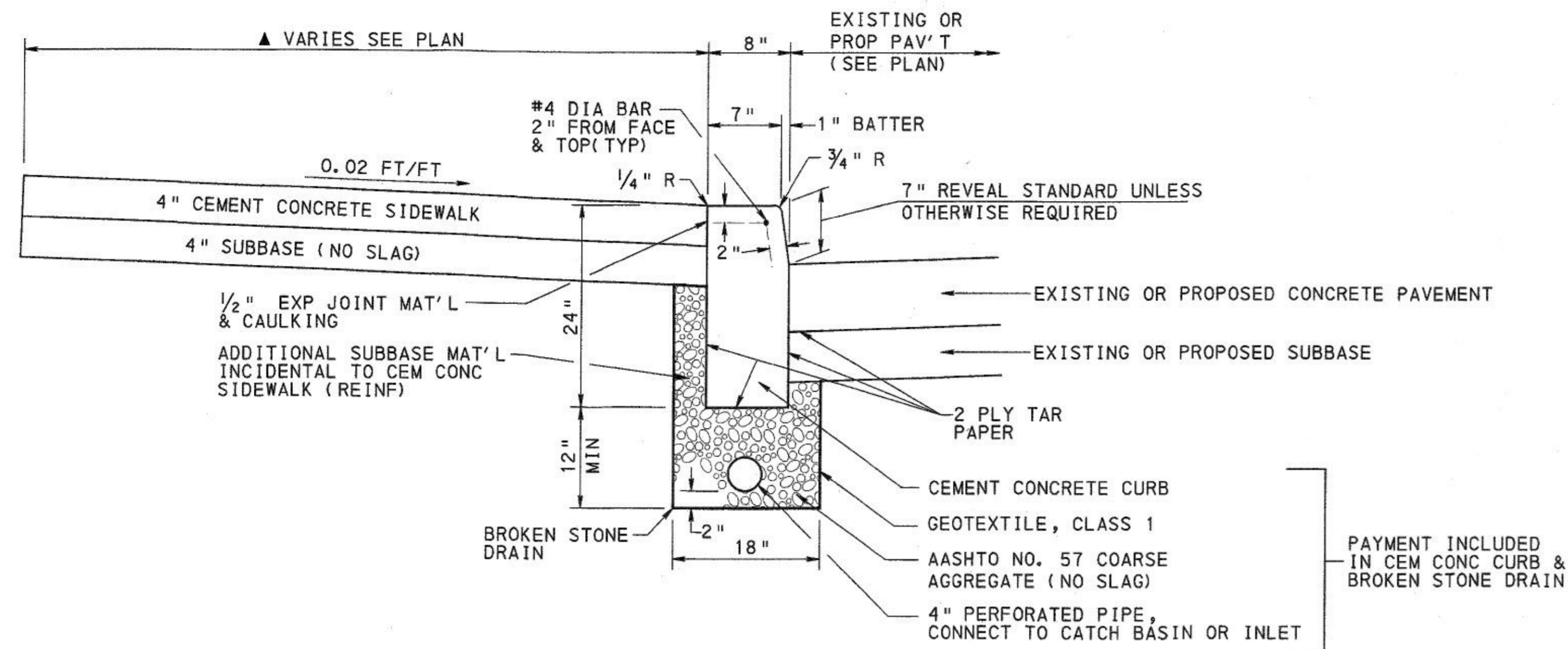
URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

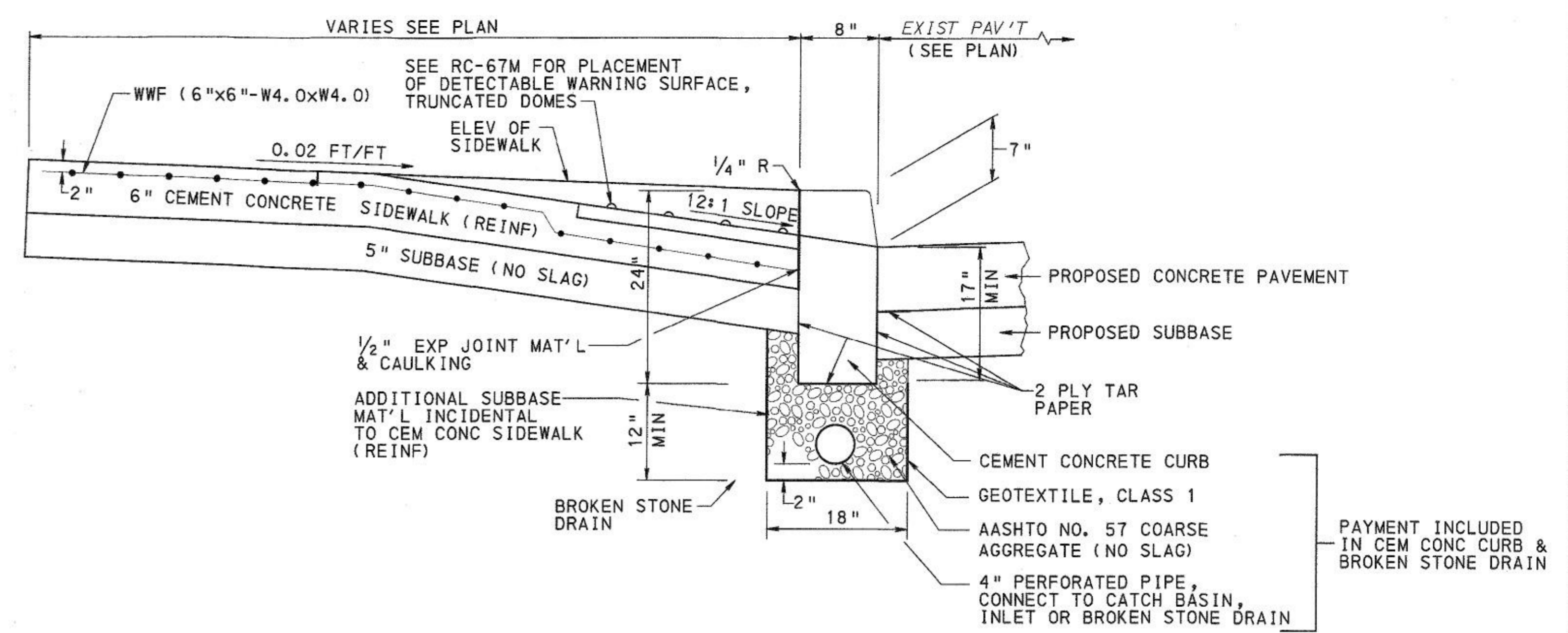
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

**TYPICAL SECTION**

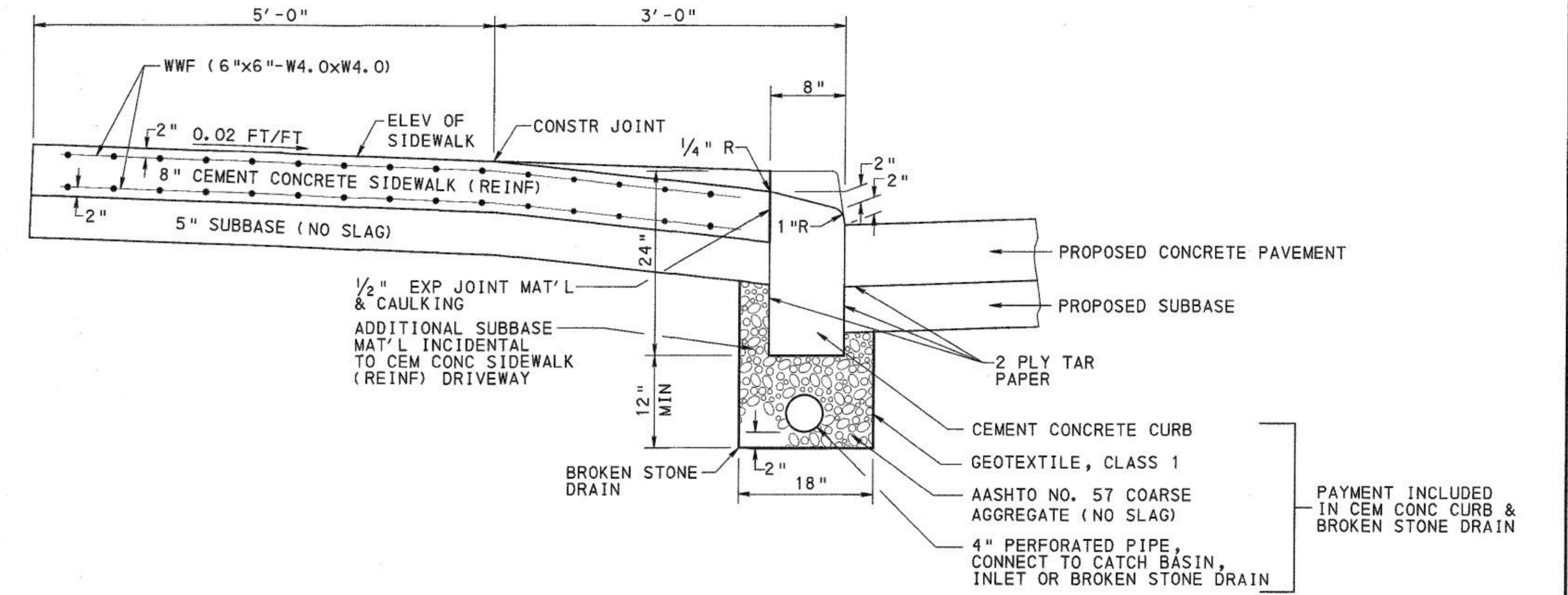
SCALE: NONE      SHEET NO.      ACCESSION NO. **4119-004**  
DATE: 2/23/17      4 OF 21      CASE NO. **C-5-1**



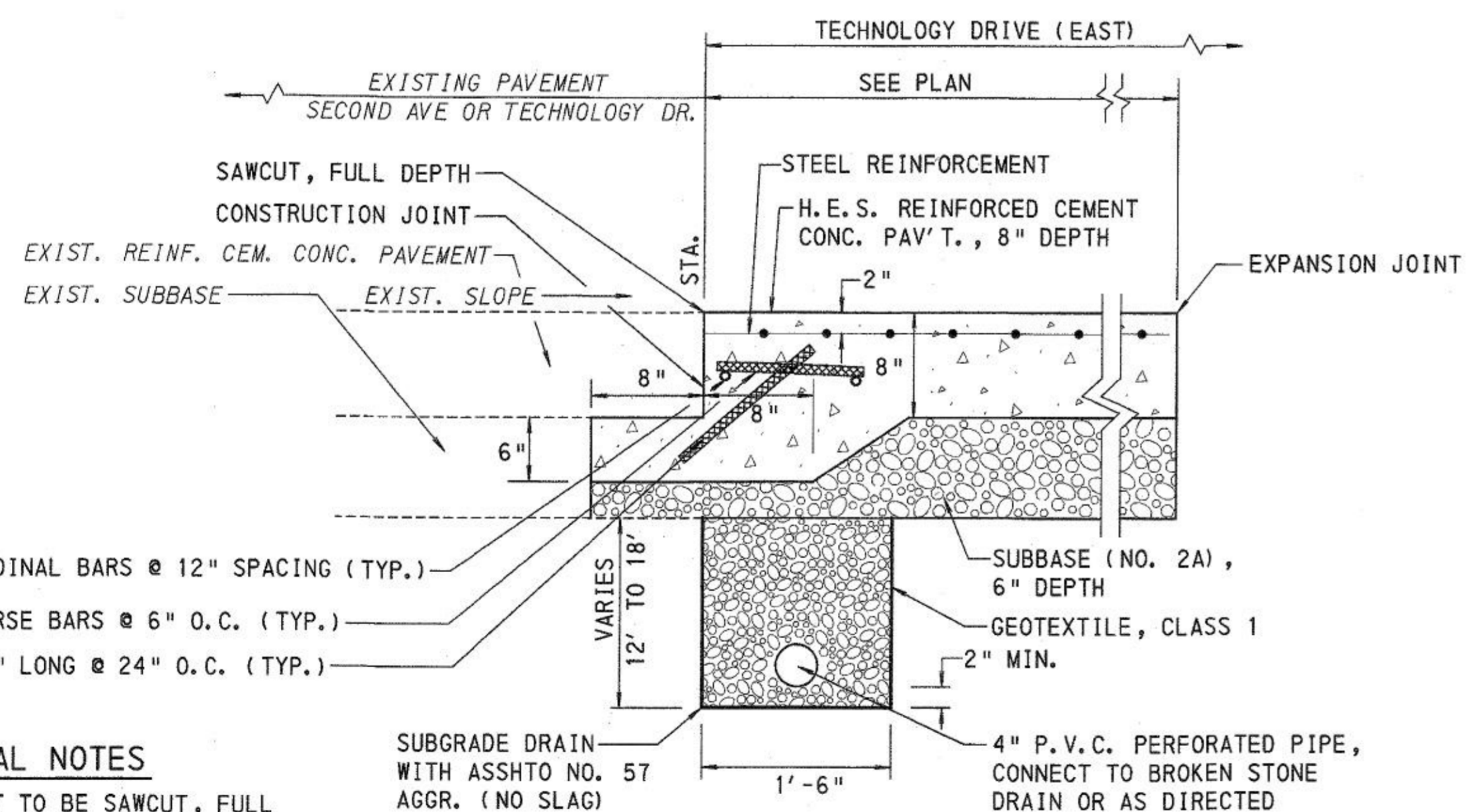
**CEMENT CONCRETE CURB, BROKEN STONE DRAIN, AND CEMENT CONCRETE SIDEWALK**  
NTS



**DEPRESSED CEMENT CONCRETE CURB AND BROKEN STONE DRAIN AT CEMENT CONCRETE SIDEWALK (REINFORCED) HANDICAP RAMP**  
NTS



**DEPRESSED CEMENT CONCRETE CURB AND BROKEN STONE DRAIN AT CEMENT CONCRETE SIDEWALK (REINFORCED) DRIVEWAY**  
NTS



**PAVEMENT TRANSITION AND TYPICAL UNDERPINNING WITH SUBGRADE DRAIN AT TECHNOLOGY DRIVE (EAST)**  
N. T. S.

**GENERAL NOTES**

- EXISTING PAVEMENT TO BE SAWCUT, FULL DEPTH UNTIL A SQUARE AND FLUSH SURFACE CAN BE PROVIDED AT NO ADDITIONAL COST. SAWCUT SURFACE TO BE CLEANED AND WETTED WHEN NEW CONCRETE IS TO BE PLACED.
- SURFACE OF FULL DEPTH PAVEMENT TO MATCH SURFACE OF EXISTING OR PROPOSED STREET PAVEMENT.

**NOTES:**

- ALL CURB JOINTS TO BE SEALED WITH SIKA FLEX 1-A (OR APPROVED EQUAL). CURB CONSTRUCTION JOINTS SHALL COINCIDE WITH TRANSVERSE JOINTS IN PAVEMENT, MAX LENGTH 15'-0".
- CEMENT CONCRETE SIDEWALK (REINF) HANDICAP RAMP, 6" DEPTH, REINFORCED WITH WWF (6x6-W4.0xW4.0).

URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING

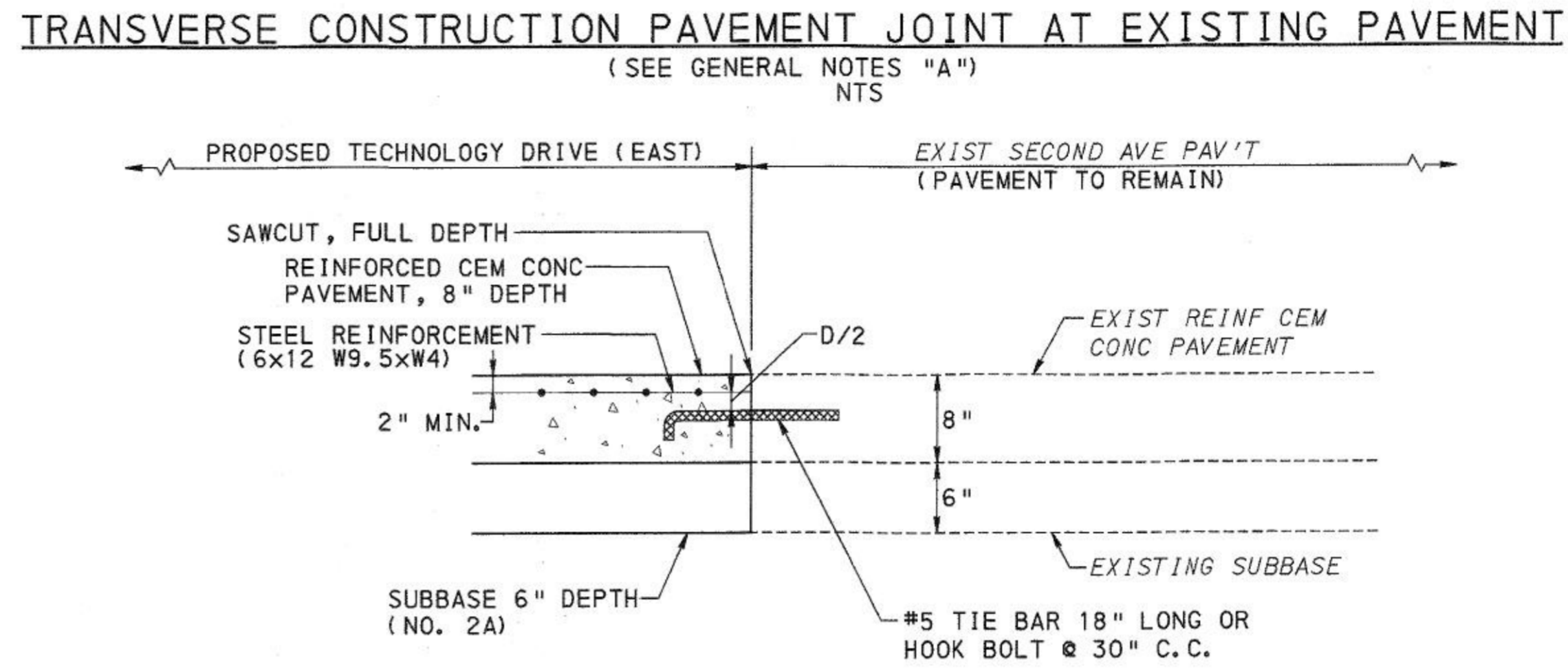
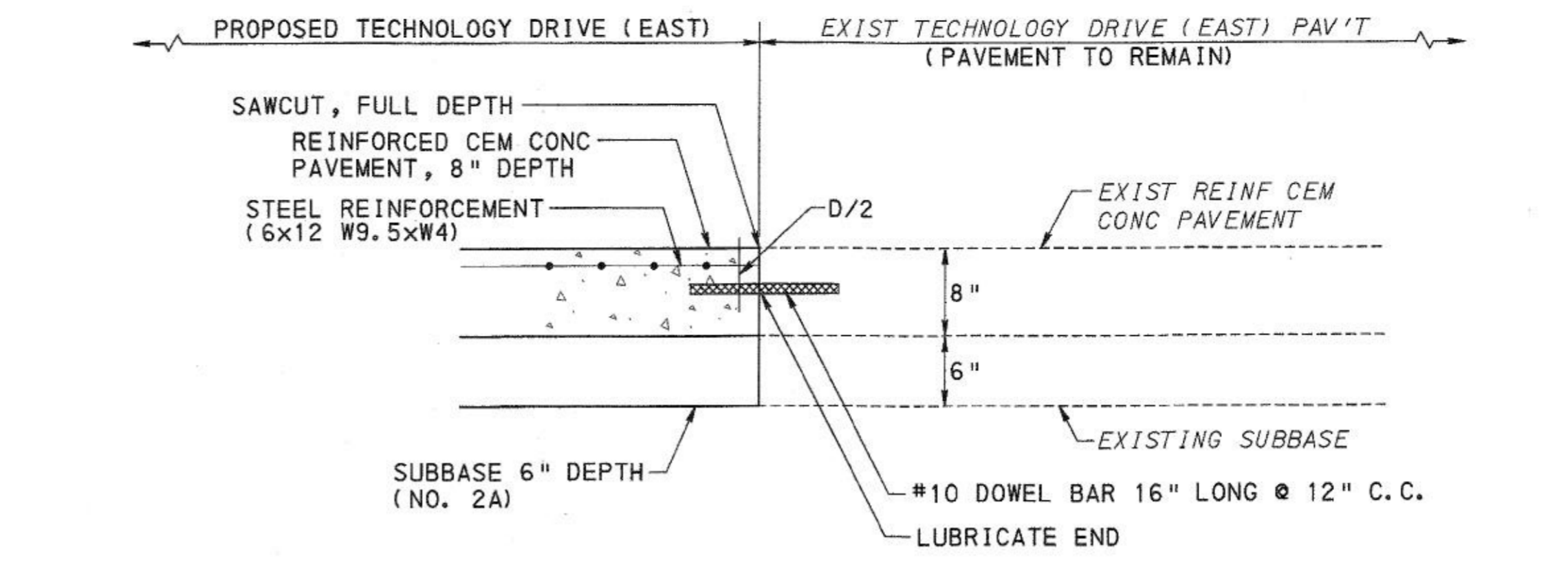
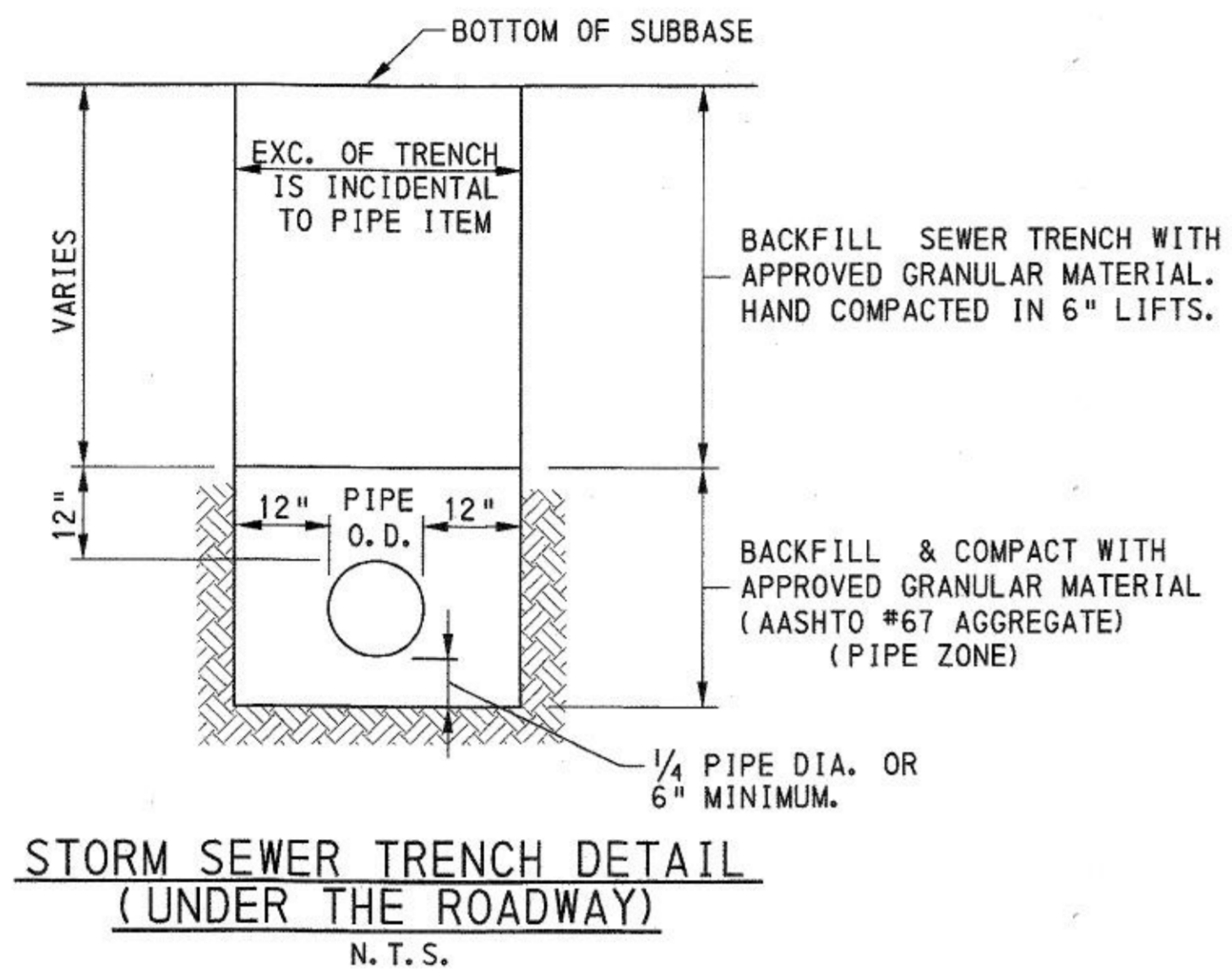
**CURB AND SIDEWALK DETAILS**

SCALE: NONE SHEET NO. ACCESSION NO. **A(19)-005**  
DATE: 2/23/17 5 OF 21 CASE NO. **C-5-1**

Record Drawings

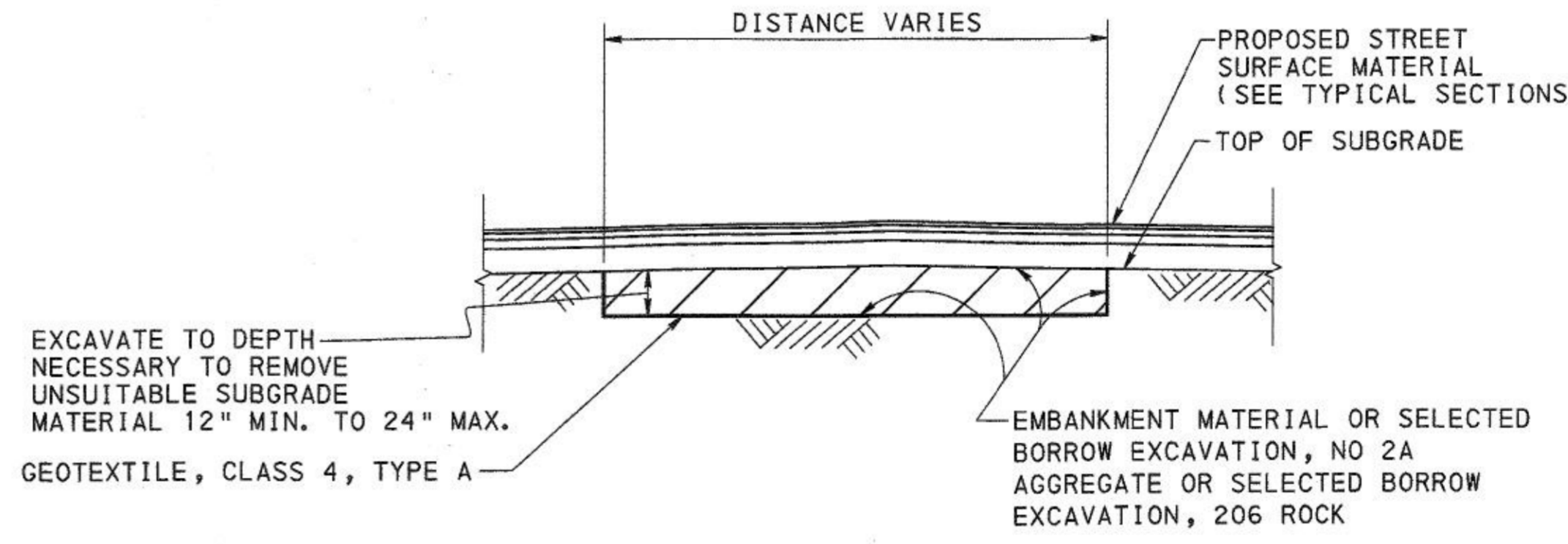
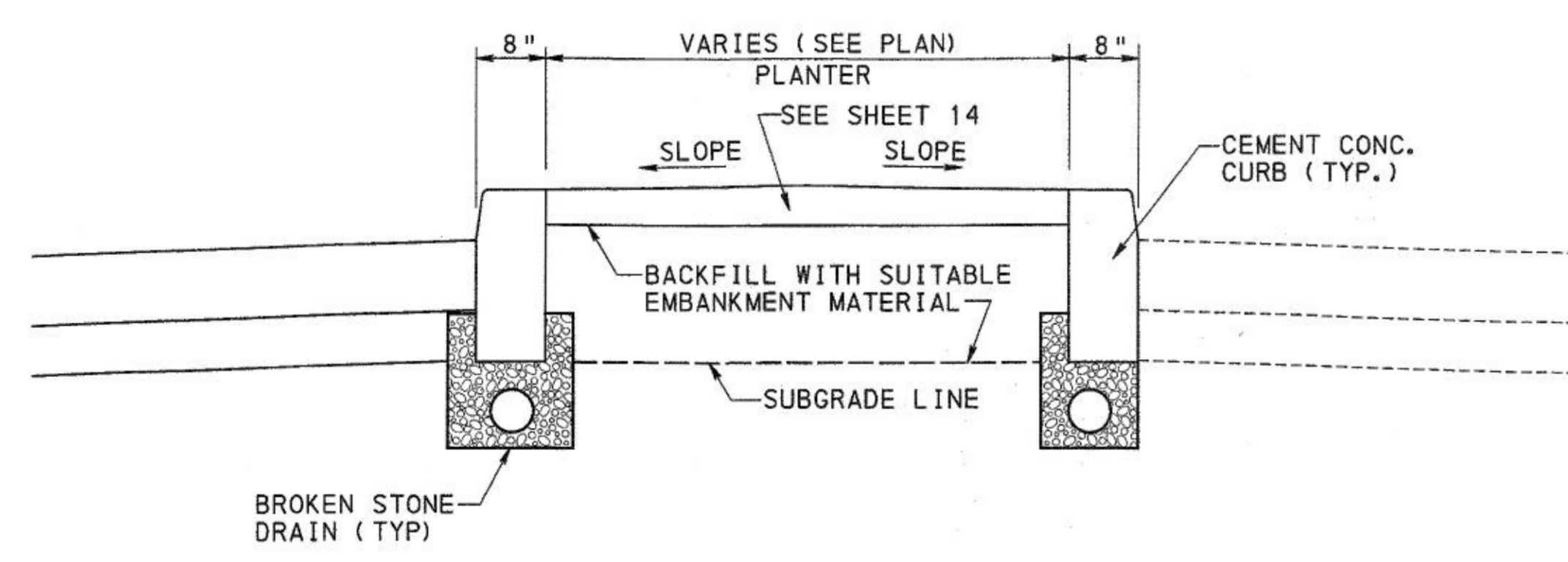
3/29/2017 \\uspp111\p0002\Drawings\Transportation\1555\60445862\Barrels\Street\WIdem\ing\Cadd\Plans\Constr\Barrels\_Detail101.dgn

| FIELD DATA | DRAWN     | SUPERVISOR | REVISIONS |      |
|------------|-----------|------------|-----------|------|
| BY         |           |            | CHARACTER | DATE |
| CHECKED    | INSPECTED | END-CONST. |           |      |
| DATE       |           |            |           |      |



- GENERAL NOTES "A"**
- EXISTING REINFORCED CEMENT CONCRETE PAVEMENT TO BE SAWCUT, FULL DEPTH UNTIL A SQUARE AND FLUSH SURFACE CAN BE PROVIDED AT NO ADDITIONAL COST. SAWCUT SURFACE TO BE CLEANED AND WETTED WHEN NEW CONCRETE IS TO BE PLACED.
  - SURFACE OF FULL DEPTH CONCRETE PAVEMENT TO MATCH SURFACE OF EXISTING CONCRETE PAVEMENT. ANY ADDITIONAL H.E.S. REINFORCED CEM. CONC. PAVEMENT WILL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE.
  - DOWEL BAR TO BE PLACED IN 1 3/4" DRILLED HOLE PARALLEL TO THE SURFACE OF PAVEMENT AND GROUTED TO EXISTING PAVEMENT WITH A NON-SHRINK CEMENT GROUT AROUND THE COMPLETE PERIMETER.
  - ALL #10 DOWEL BARS USED TO TIE H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT, 8" DEPTH TO EXISTING CONCRETE PAVEMENT WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEM H.E.S REINFORCED CEMENT CONCRETE PAVEMENT, 8" DEPTH.

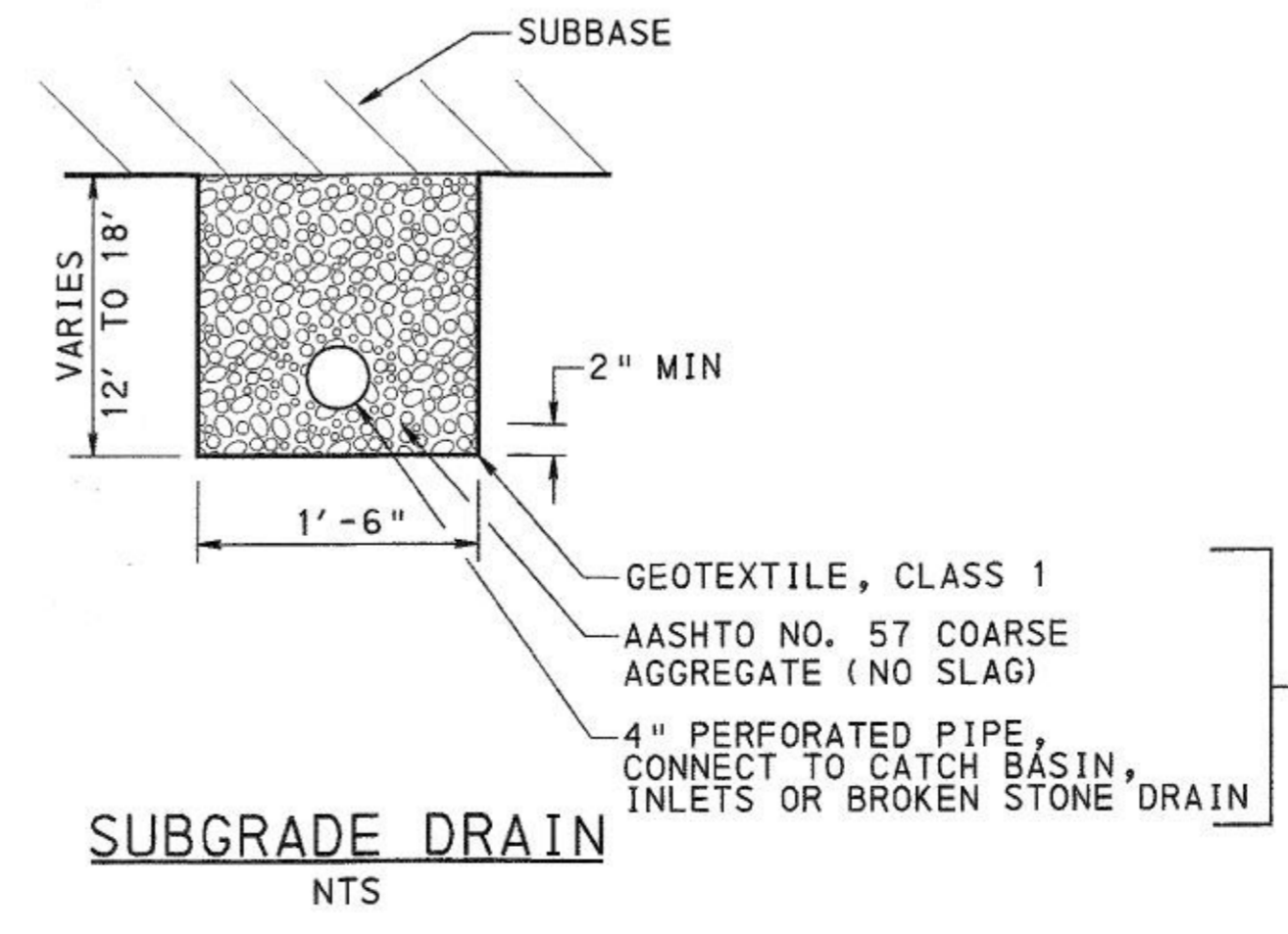
- GENERAL NOTES "B"**
- EXISTING REINF. CEMENT CONCRETE PAVEMENT TO BE SAWCUT, FULL DEPTH UNTIL A SQUARE AND FLUSH SURFACE CAN BE PROVIDED AT NO ADDITIONAL COST. SAWCUT SURFACE TO BE CLEANED AND WETTED WHEN NEW CONCRETE IS TO BE PLACED.
  - SURFACE OF FULL DEPTH CONCRETE PAVEMENT TO MATCH SURFACE OF EXISTING CONCRETE PAVEMENT. ANY ADDITIONAL H.E.S. REINF. CEM. CONC. PAVEMENT WILL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE.
  - #5 TIE BAR OR HOOK BOLT TO BE PLACED IN 1 1/4" DRILLED HOLE PARALLEL TO THE SURFACE OF PAVEMENT AND GROUTED TO EXISTING PAVEMENT WITH A NON-SHRINK CEMENT GROUT AROUND THE COMPLETE PERIMETER.
  - ALL #5 TIE BARS, OR HOOK BOLTS USED TO TIE H.E.S. REINF. CEMENT CONCRETE PAVEMENT, 8" DEPTH TO EXISTING REINF. CONCRETE PAVEMENT WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEM H.E.S. REINF. CEMENT CONCRETE PAVEMENT, 8" DEPTH.



**LEGEND**

AREA OF UNSUITABLE SUBGRADE MATERIAL THAT IS TO BE EXCAVATED AS (CLASS 1 EXCAVATION, SPECIAL) THEN BACKFILL WITH EXCAVATED MATERIAL OR SELECTED BORROW EXCAVATION, NO 2A AGGREGATE

SUBGRADE WITH SATISFACTORY COMPACTION



PAYMENT INCLUDED IN ITEM SUBGRADE DRAIN

3/28/2017 \\p111\p002\Drawings\Transportation\1555\60445862\_Bates\_Stripet\_#1den\Ing\Cadd\Plans\Cons\tr\Bates\_Detail102.dgn

| BY      | DATE      | REVISIONS |
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| CHECKED | INSPECT'D | CONSTR.   |
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STA 123+55.50 TO STA 124+50.50

Record Drawings

URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

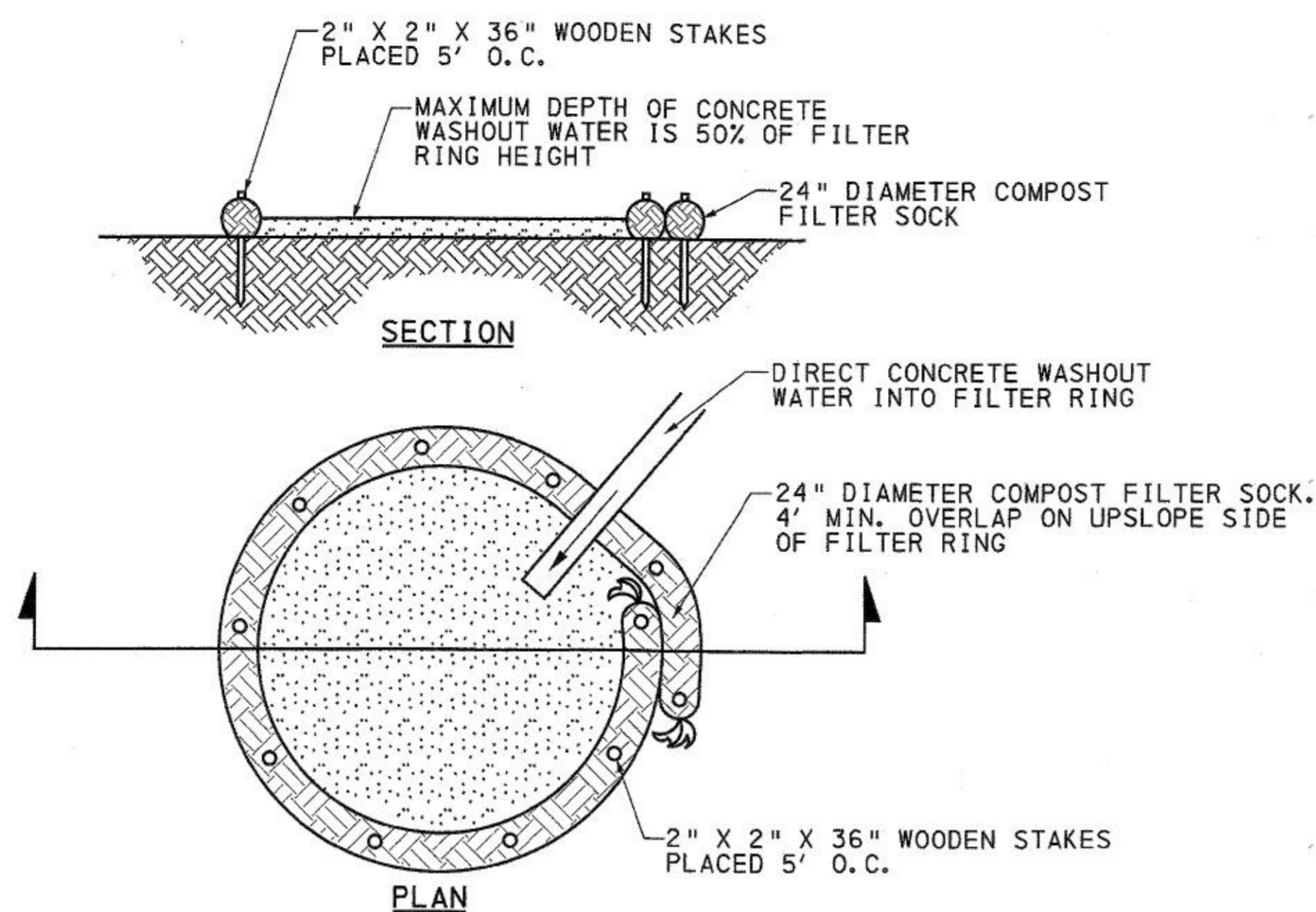
PITTSBURGH TECHNOLOGY CENTER SITE PREPARATION CONTRACT NO. 14 TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS

CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS BUREAU OF TRANSPORTATION AND ENGINEERING

**ROADWAY DETAILS**

SCALE: NONE SHEET NO. 6 OF 21 ACCESSION NO. A(18)-005

DATE: 2/23/17 CASE NO. C-5-1

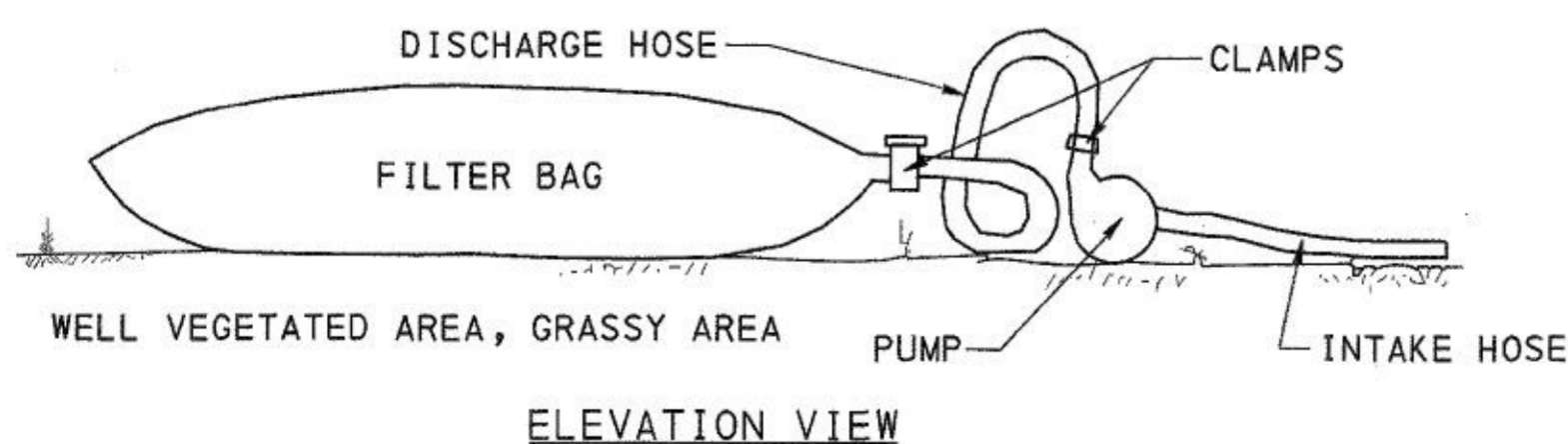


**COMPOST SOCK WASHOUT FACILITY**

NOT TO SCALE  
COMPOST SOCK WASHOUT FACILITY IS INCIDENTAL TO ASSOCIATED ITEMS FOR PLACEMENT OF CONCRETE

**NOTES:**

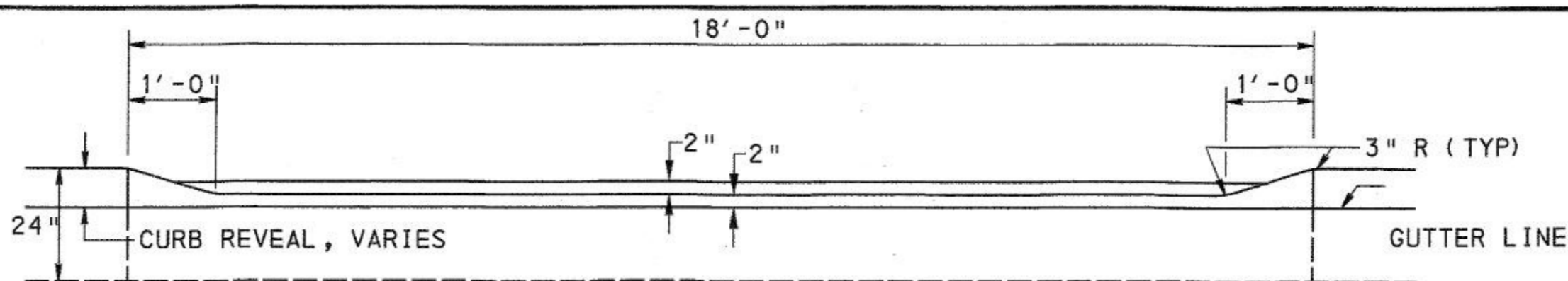
- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE, A WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES. UNDER NO CIRCUMSTANCES SHOULD WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. MAKE SURE THAT PROPER SIGNAGE IS PROVIDED TO DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
- A SUITABLE IMPERVIOUS GEOMEMBRANE MUST BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS MUST BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE MUST BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS-SECTION.
- ALL CONCRETE WASHOUT FACILITIES MUST BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS MUST BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- ACCUMULATED MATERIALS MUST BE REMOVED WHEN THEY REACH 75% CAPACITY.
- PLASTIC LINERS MUST BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
- IF CONTRACTOR PREFERS ANY OTHER METHOD FOR CONCRETE WASHOUT IT MUST BE APPROVED BY THE BEDFORD COUNTY CONSERVATION DISTRICT PRIOR TO USE.
- WASHOUT FACILITIES MUST NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS. THEY MUST BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY MUST BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.



**PUMPED WATER FILTER BAG DETAIL**

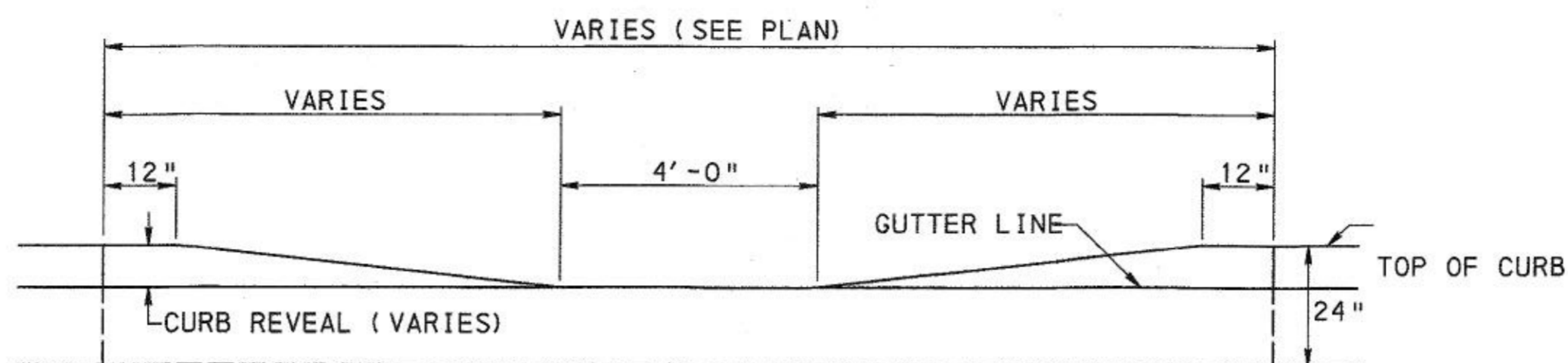
NTS

- \* PUMPING RATE SHOULD BE 1/2 THE MAXIMUM RECOMMENDED BY THE MANUFACTURER
  - \* FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT FAILED OR ARE FILLED.
- EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED.



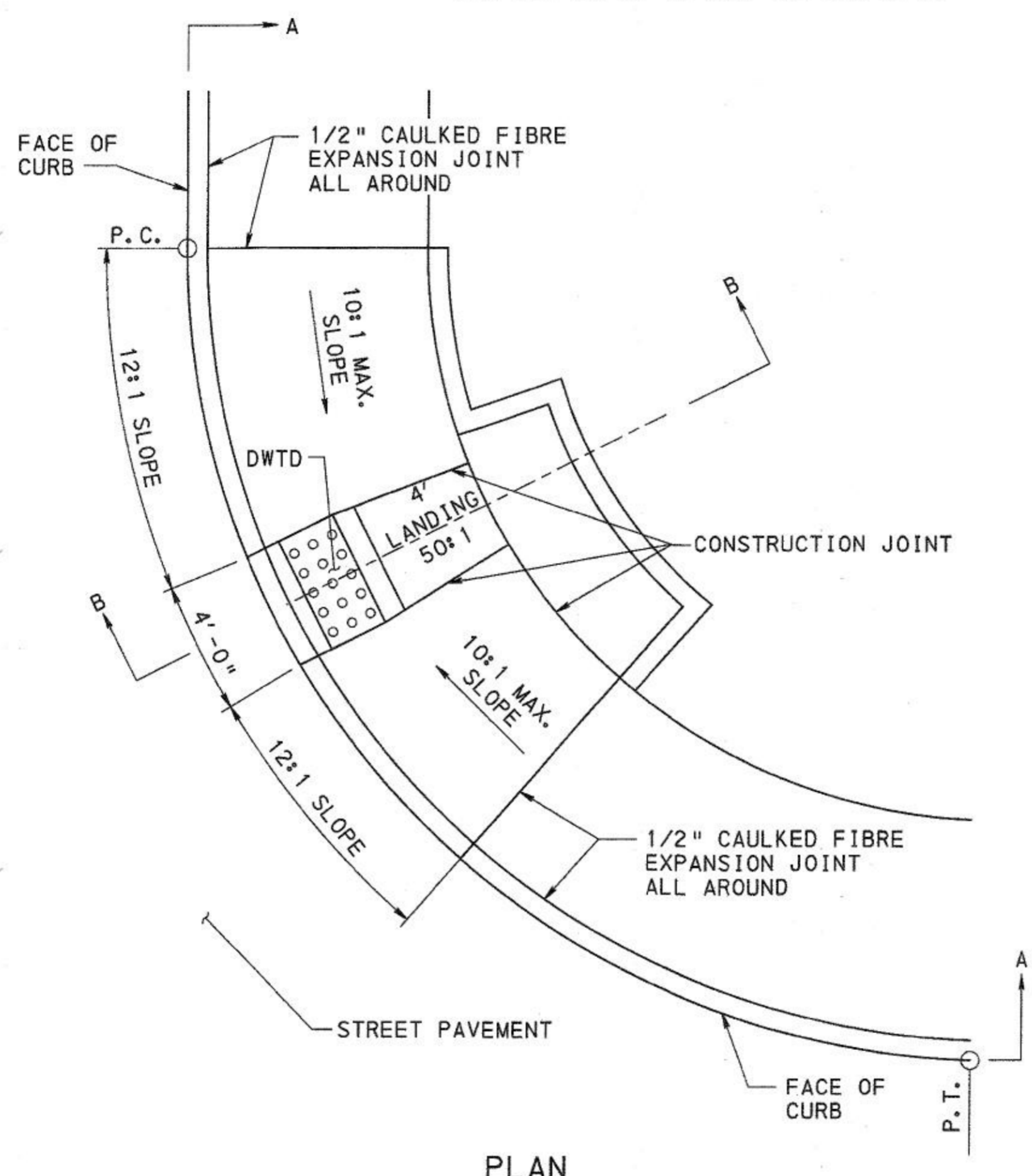
**DEPRESSED CEMENT CONCRETE CURB (DRIVEWAY)**

NTS  
STA 123+40.00 TO STA 123+64.00 LT



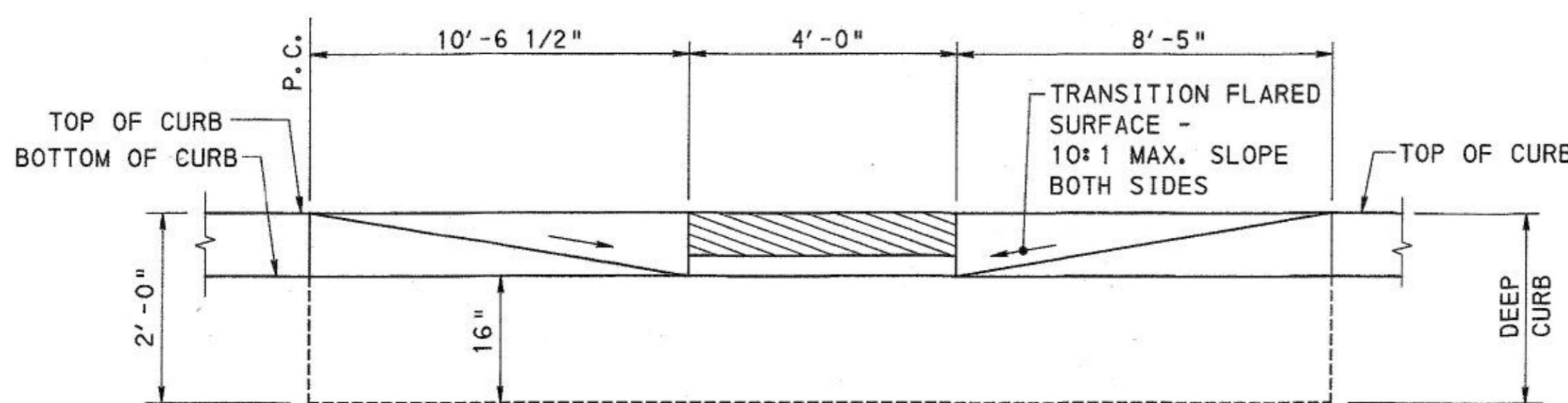
**DEPRESSED CEMENT CONCRETE CURB (HANDICAP RAMP)**

NTS  
STA 124+65.82 TO STA 124+87.42 LT



**PLAN**

NTS



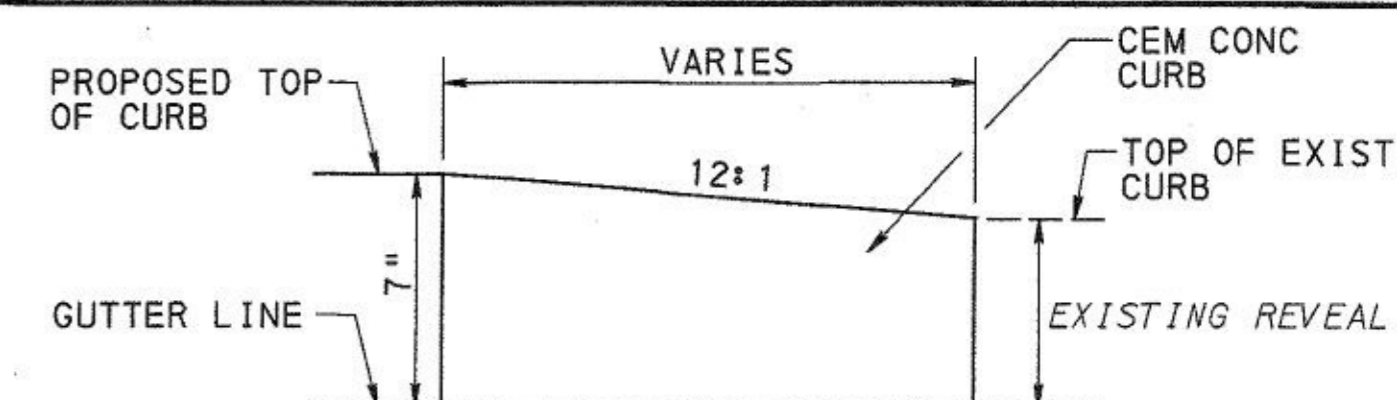
**SECTION A-A**

NTS

NOTE: SEE CITY OF PITTSBURGH STANDARDS FOR CONSTRUCTION SC-502b FOR ADDITIONAL INFORMATION.

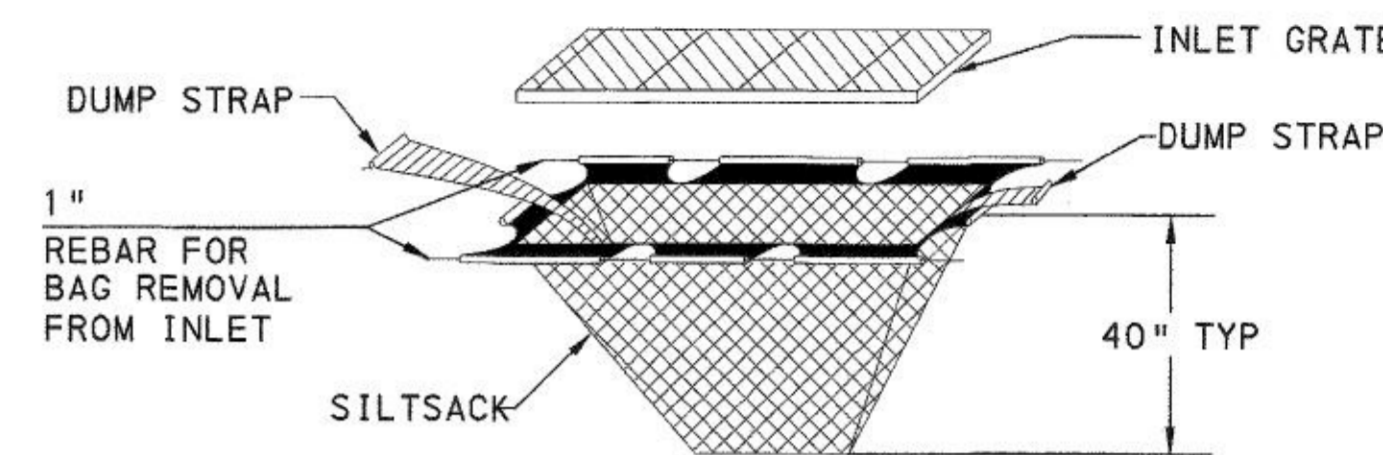
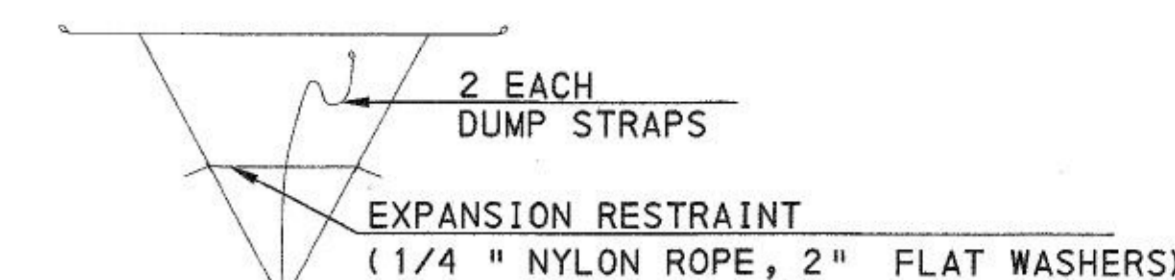
**TRUNCATED DOME HANDICAP CURB RAMP TYPE 2**

NTS

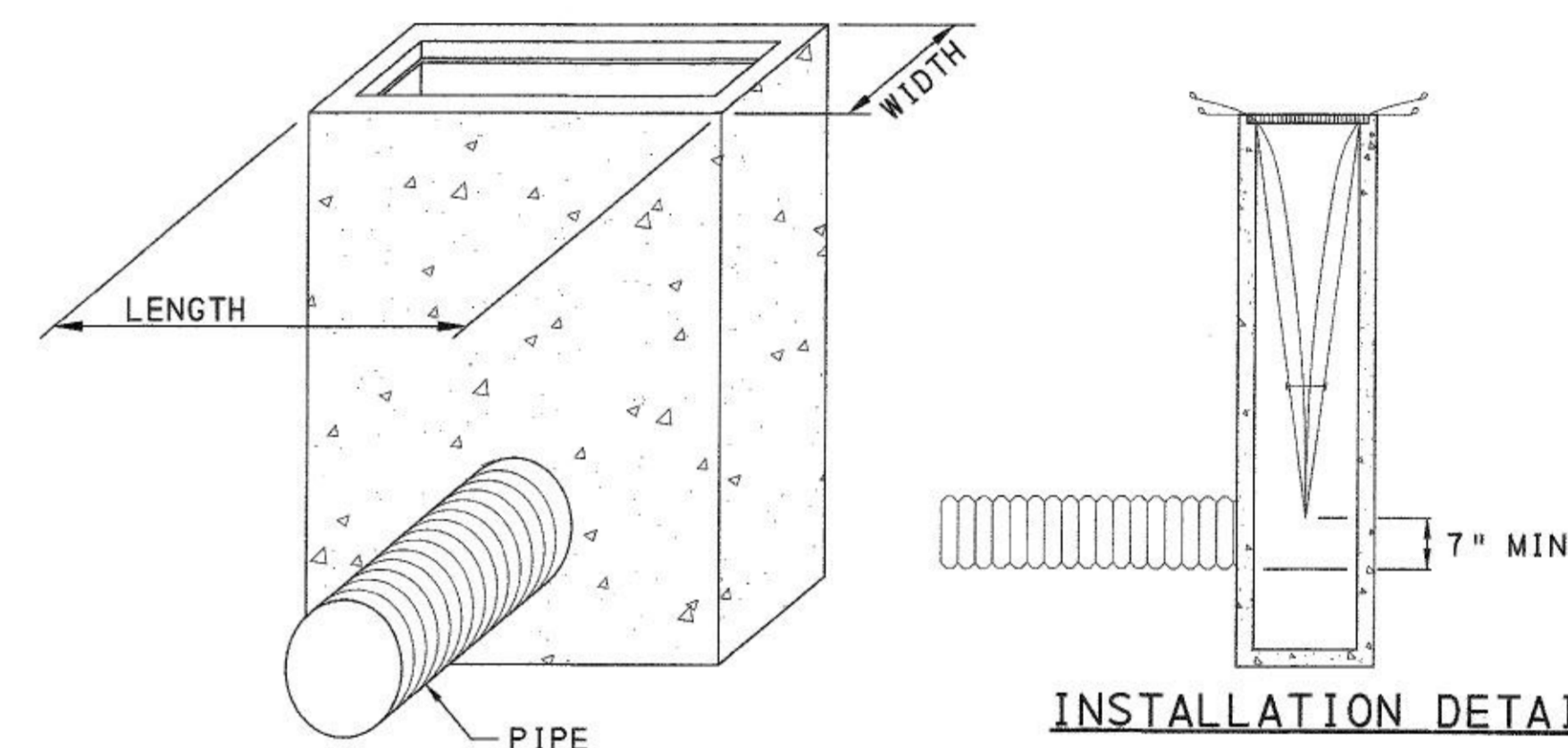


**TRANSITION CURB**

NTS  
STA 41+69.55 RT  
STA 122+97.09 LT



**BAG DETAIL**

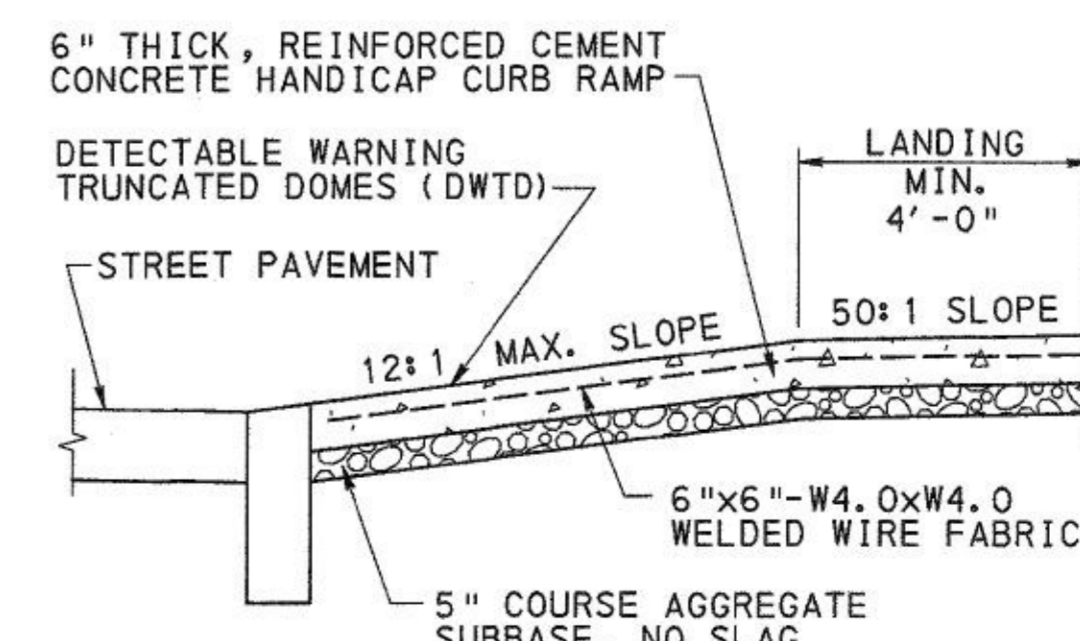


**INLET FILTER BAG**

NOT TO SCALE

**NOTES:**

- INSPECT INLET FILTER BAG AFTER EACH RUNOFF EVENT. MAINTAIN AS REQUIRED TO ENSURE PROPER FUNCTIONING OF THE BAG.
- REMOVE ACCUMULATED SEDIMENT/DEBRIS WHEN THE INLET FILTER REACHES ONE-HALF MAXIMUM CAPACITY.
- REPLACE FILTER BAG IF RIPPED OR TORN.
- PROVIDE DOWN GRADIENT BERM AS REQUIRED. DO NOT USE IN SAG/SUMP CONDITIONS.
- USE SANDBAGS AT TYPE C INLET CURB OPENINGS TO PREVENT BYPASS FLOW.
- REMOVE AND PROPERLY DISPOSE OF INLET FILTER BAG WHEN NO LONGER NEEDED.
- DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.



**SECTION B-B**

NTS

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

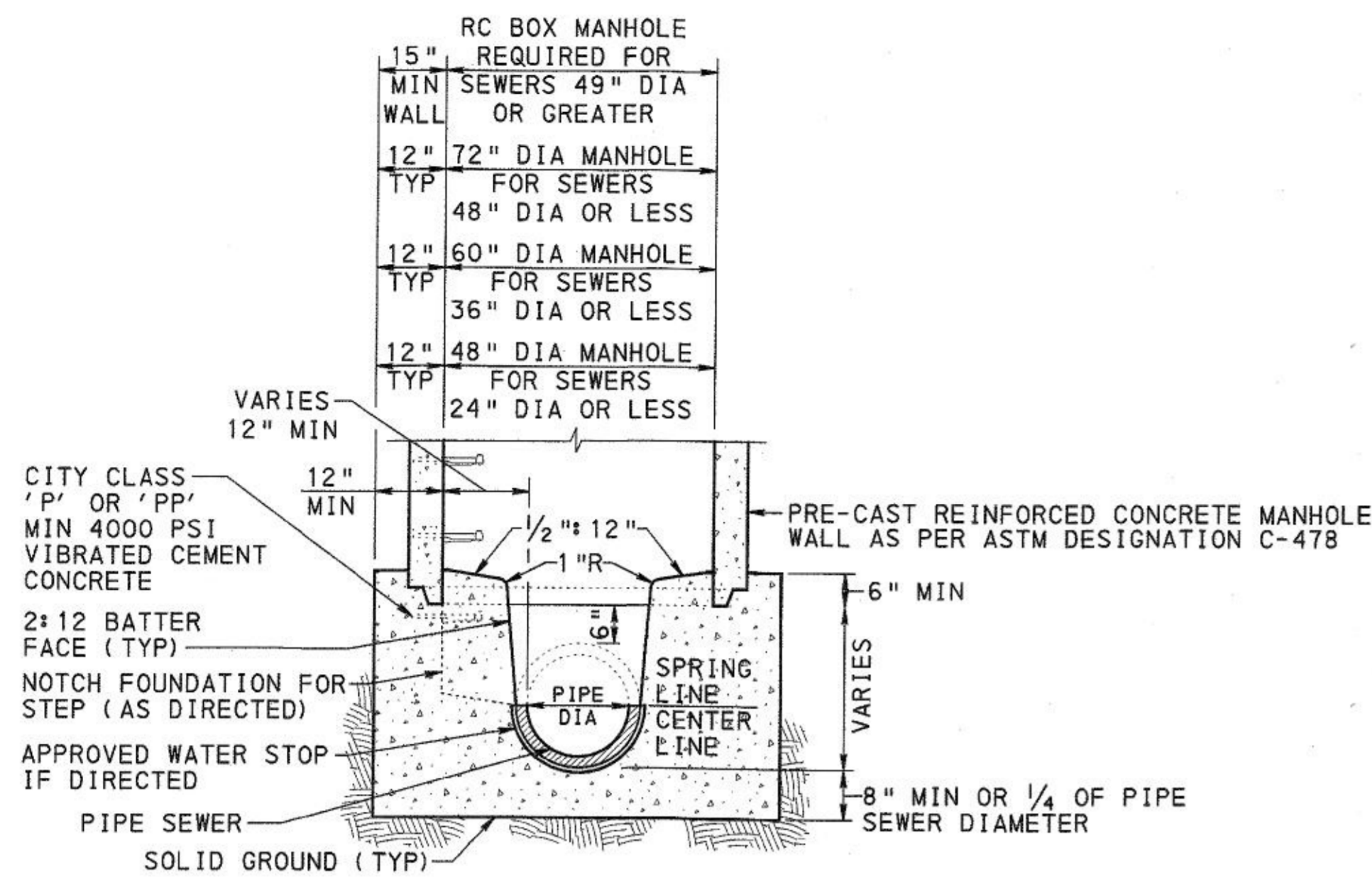
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

**MISCELLANEOUS DETAILS**

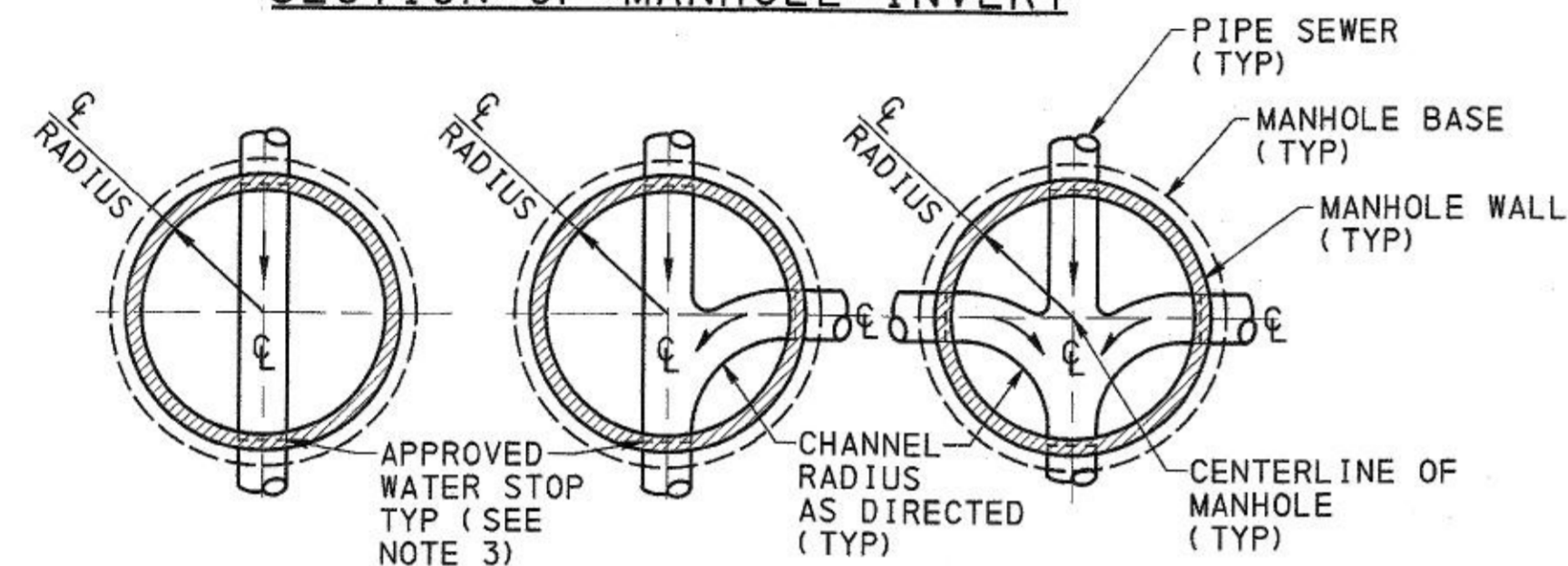
SCALE: NONE SHEET NO. 7 OF 21 ACCESSION NO. A(19)-007-000  
DATE: 2/23/17 CASE NO. C-5-1

Record Drawings

| FIELD DATA | DATE      | SUPERVISOR  | REVISIONS |
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| BY         |           |             | CHARACTER |
| VOLUME     |           |             | DATE      |
| CHECKED    | INSPECT'D | CRK. CONGT. |           |
| CALC. BOOK |           | PC          |           |



**SECTION OF MANHOLE INVERT**



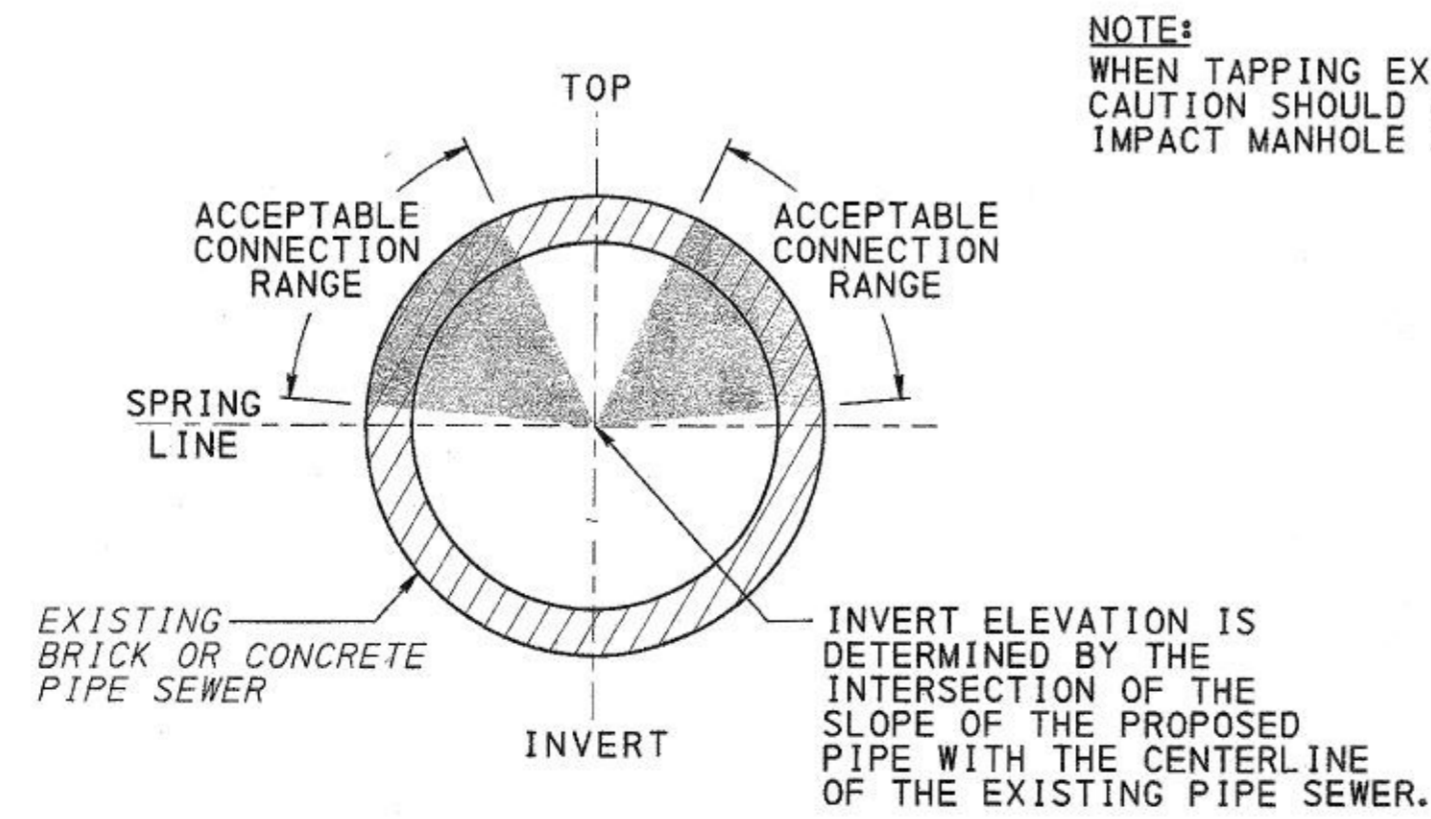
**PLAN VIEW OF MANHOLE INVERT - SINGLE, TWO-WAY, THREE-WAY**

**NOTES:**

- ADDITIONAL AND/OR ALTERNATE PIPE SEWER LAYOUT CONNECTIONS WILL BE APPROVED AS DIRECTED.
- REINFORCED CEMENT CONCRETE BOX MANHOLE MAY BE ORDERED FOR MULTIPLE CONNECTIONS OR SPECIAL CONDITIONS, AS DIRECTED.
- ALL PLASTIC PIPE SEWERS OR CONNECTIONS MUST HAVE APPROVED WATER STOPS OR FLEXIBLE BOOT TYPE CONNECTIONS, AS DIRECTED.
- APPROVED MANHOLE STEPS REQUIRED IN BASE, MUST BE PER ASTM A615, C478, D4101 AND AASHTO M199. INSTALL MANHOLE STEPS AT 12" O.C. AND NOTCH FOUNDATION AS DIRECTED. PROPOSED STEPS SHALL NOT BE PLACED IN BARREL OF FLOW LINE.
- CLASS A MANHOLES ARE 1-WAY WITH INVERT FORMED WITH SPLIT PIPE EMBEDDED IN CONCRETE. CLASS B MANHOLES ARE 2-WAY OR 3-WAY WITH INVERT MOULDED IN CONCRETE BASE.

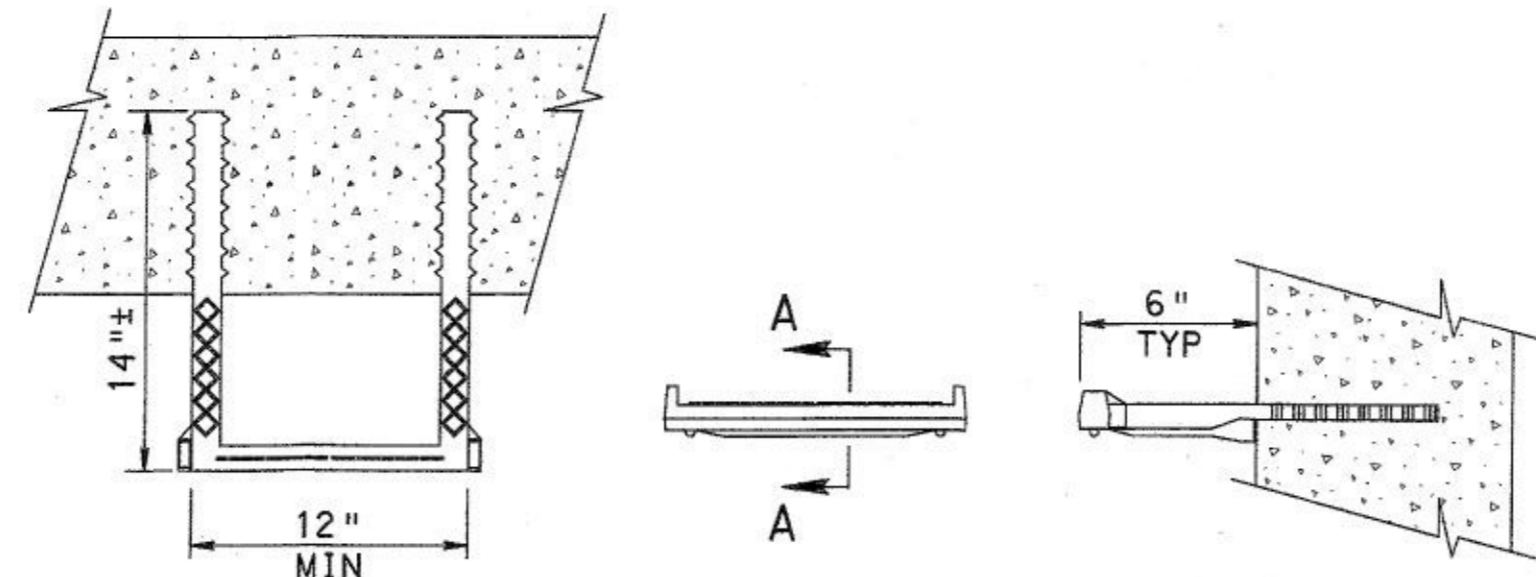
**PITTSBURGH WATER & SEWER AUTHORITY  
CAST-IN-PLACE MANHOLE INVERT  
DETAIL DRAWING SA-2A**

NTS

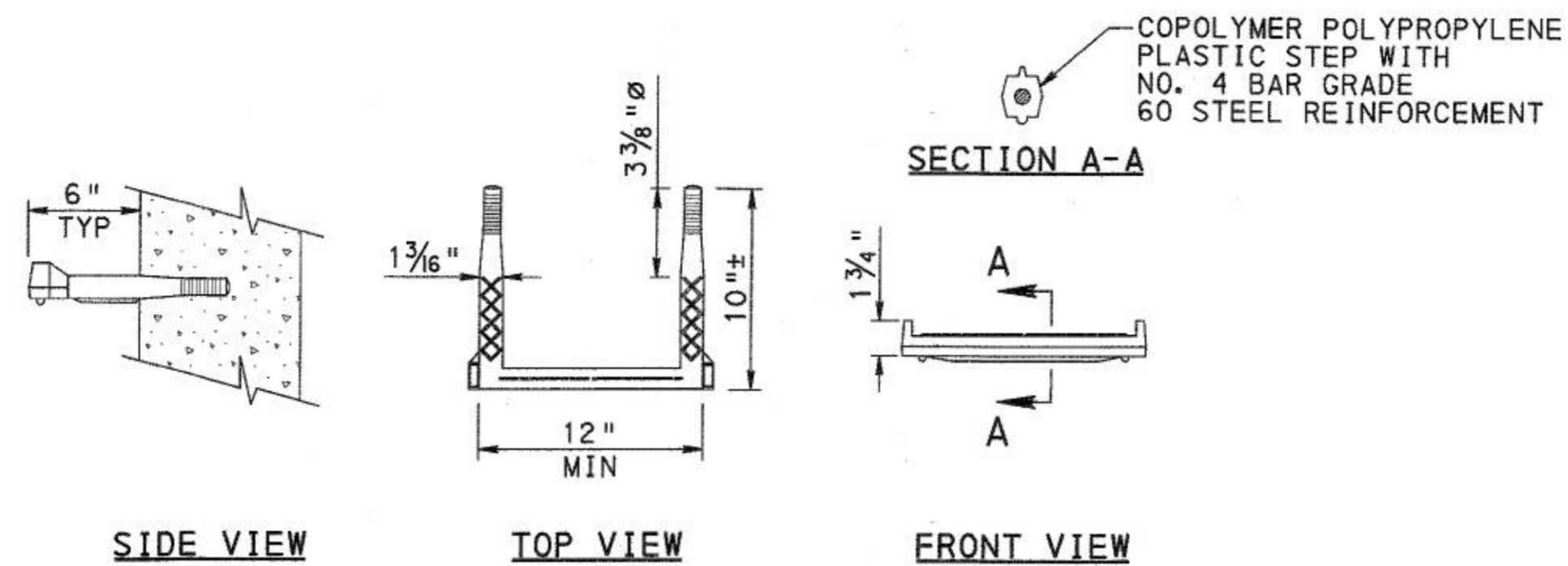


**PITTSBURGH WATER & SEWER AUTHORITY  
MANHOLE/PIPE SEWER CORED WYE CONNECTION  
DETAIL DRAWING SSC-1**

NTS



**TYPE 1 CAST-IN-PLACE**



**TYPE 2 PRE-DRILLED HOLE**

**NOTES:**

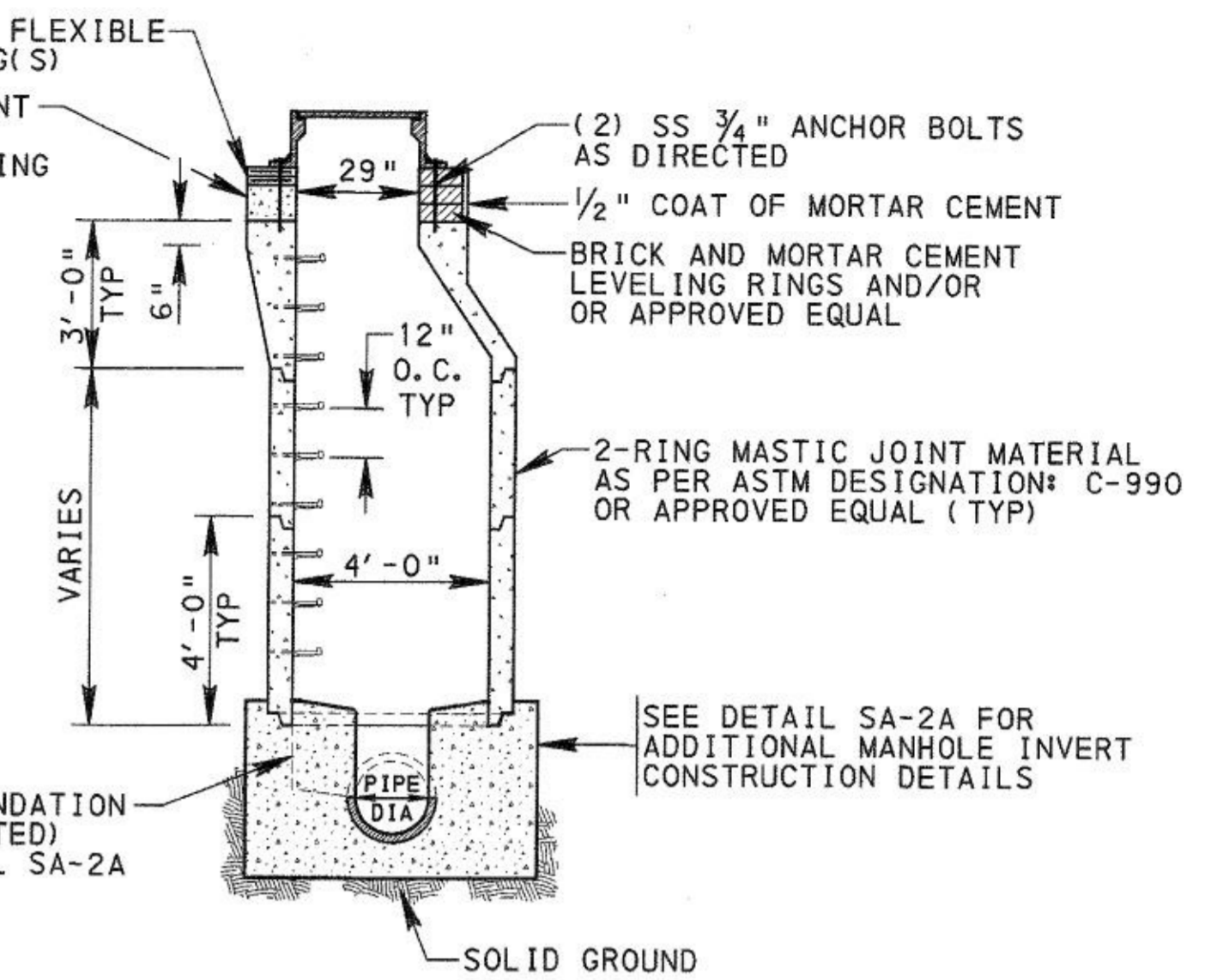
- TYPICAL STEPS, SPACING AND MATERIAL AS PER ASTM C478 AND AASHTO M199.
- PLASTIC SHALL BE A COPOLYMER POLYPROPYLENE MEETING THE REQUIREMENTS OUTLINED IN ASTM D4101, TYPE II, GRADE 49108.
- STEEL REINFORCING BAR SHALL BE NO. 4 GRADE 60 DEFORMED STEEL BAR AND CONFORMING TO THE REQUIREMENTS OF ASTM A615.
- USE TYPE 1 FOR CAST-IN-PLACE VAULTS. USE TYPE 2 FOR NEW PRECAST MANHOLES OR WHEN ADDING STEPS TO EXISTING STRUCTURES.
- ALL STEPS SHALL BE SET VERTICALLY AT 12" O.C.

**PITTSBURGH WATER & SEWER AUTHORITY  
PLASTIC MANHOLE STEPS  
DETAIL DRAWING SA-2B**

NTS

APPROVED SOLID FLEXIBLE ADJUSTMENT RING(S)  
PRECAST CEMENT CONCRETE ADJUSTMENT RING AS DIRECTED

| MANHOLE FRAME NUMBERS         |       |           |
|-------------------------------|-------|-----------|
| LOCATION                      | DEPTH | PATTERN # |
| SIDEWALKS & GRASS             | 6"    | 65        |
| CONCRETE & BITUMINOUS STREETS | 9"    | 26        |
| BRICK & BLOCK STREETS         | 13"   | 23        |

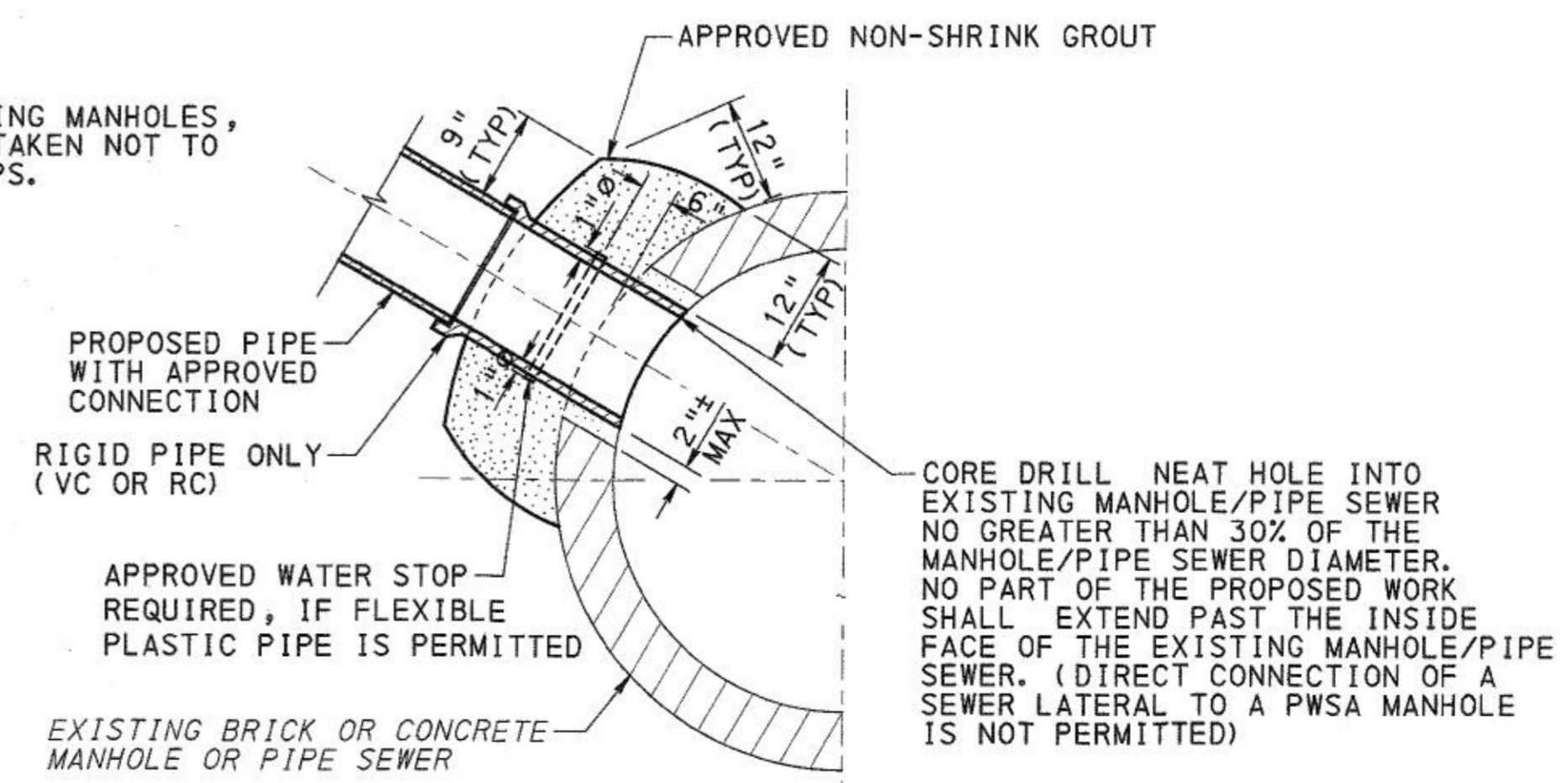


**NOTES:**

- PRECAST MANHOLE SECTIONS SHALL BE AS PER ASTM C478. LENGTHS MAY BE VARIED TO OBTAIN DESIRED DEPTH.
- MANHOLE STEPS: NO. 4 BAR GRADE 60 DEFORMED STEEL BAR, ASTM A615; COATED WITH POLYPROPYLENE PLASTIC, ASTM D4101.
- UNLESS OTHERWISE SPECIFIED, ALL MANHOLE FRAMES SHALL BE PWSA PATTERN NUMBER AND SIZE SHOWN IN THE MANHOLE FRAMES CHART THIS SHEET. MANHOLE COVERS SHALL BE CITY OF PITTSBURGH/PWSA FRAME NO. 25 OR 25V. COVERS SHALL BE LETTERED "PWSA SEWER" FOR COMBINATION SEWERS AND "PWSA STORM" FOR STORM ONLY SEWERS IN 2" HIGH LETTERING. MANHOLE FRAME SHALL BE ANCHORED IN PLACE AT THE TOP OF THE PRECAST MANHOLE WITH TWO 3/4" S.S. ANCHOR BOLTS AND NUTS. LEVELING OF CASTING SHALL BE SET TO FINISHED GRADE, MAX 3/16" TOLERANCE PERMITTED, WITH APPROVED SOLID GRADE RINGS OR BRICK AND CEMENT MORTAR.
- MANHOLES MUST BE WATERPROOFED ON THE EXTERIOR WITH AN APPROVED ASPHALT EMULSION FOUNDATION COATING. MATERIALS AND APPLICATION SHALL BE IN ACCORDANCE WITH ASTM D1227.

**PITTSBURGH WATER & SEWER AUTHORITY  
48" DIAMETER MANHOLE  
DETAIL DRAWING SA-2**

NTS



Record Drawings

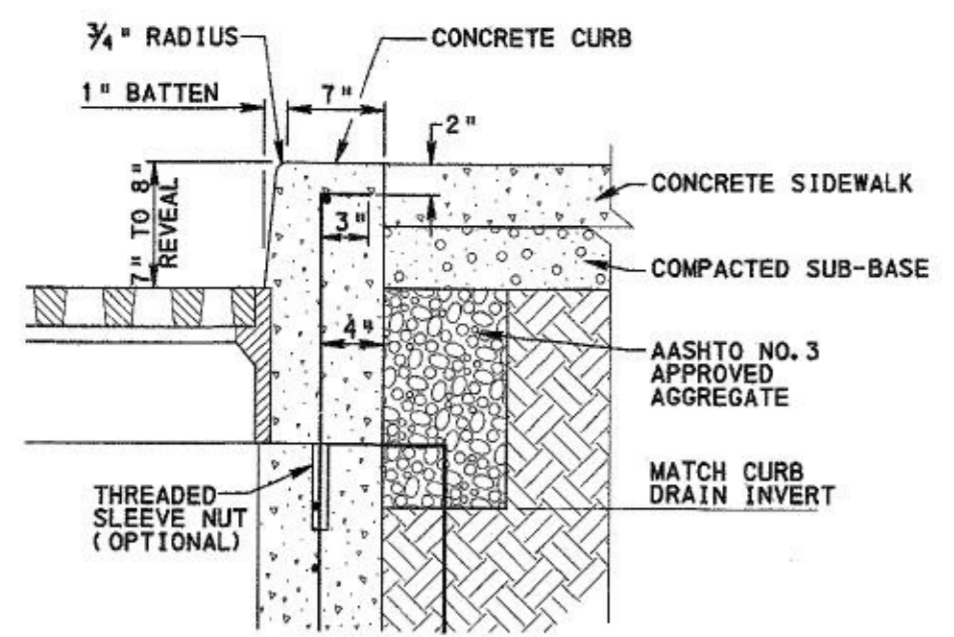
URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS  
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING  
SEWER DETAILS

SCALE: NONE SHEET NO. ACCESSION NO. A(19)-008-007  
DATE: 2/23/17 8 OF 21 CASE NO. C-5-1

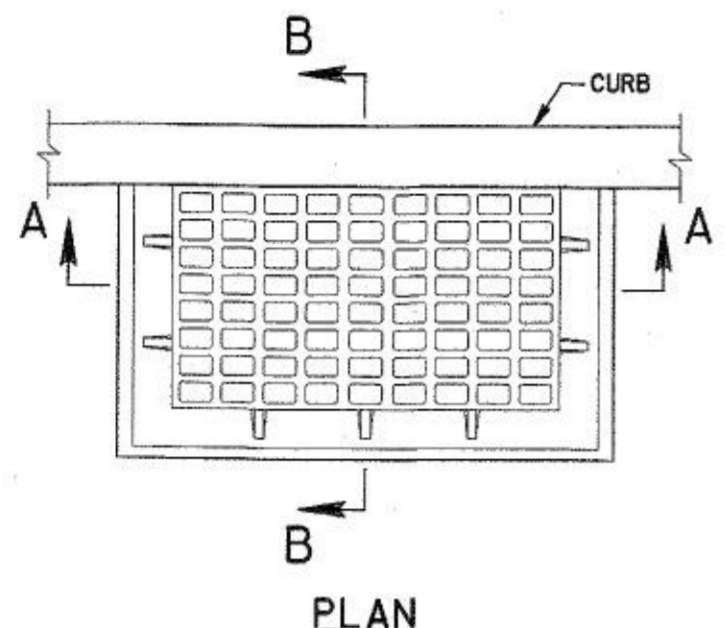
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| FIELD DATA | DRW       | SUPERVISOR | REVISIONS |      |
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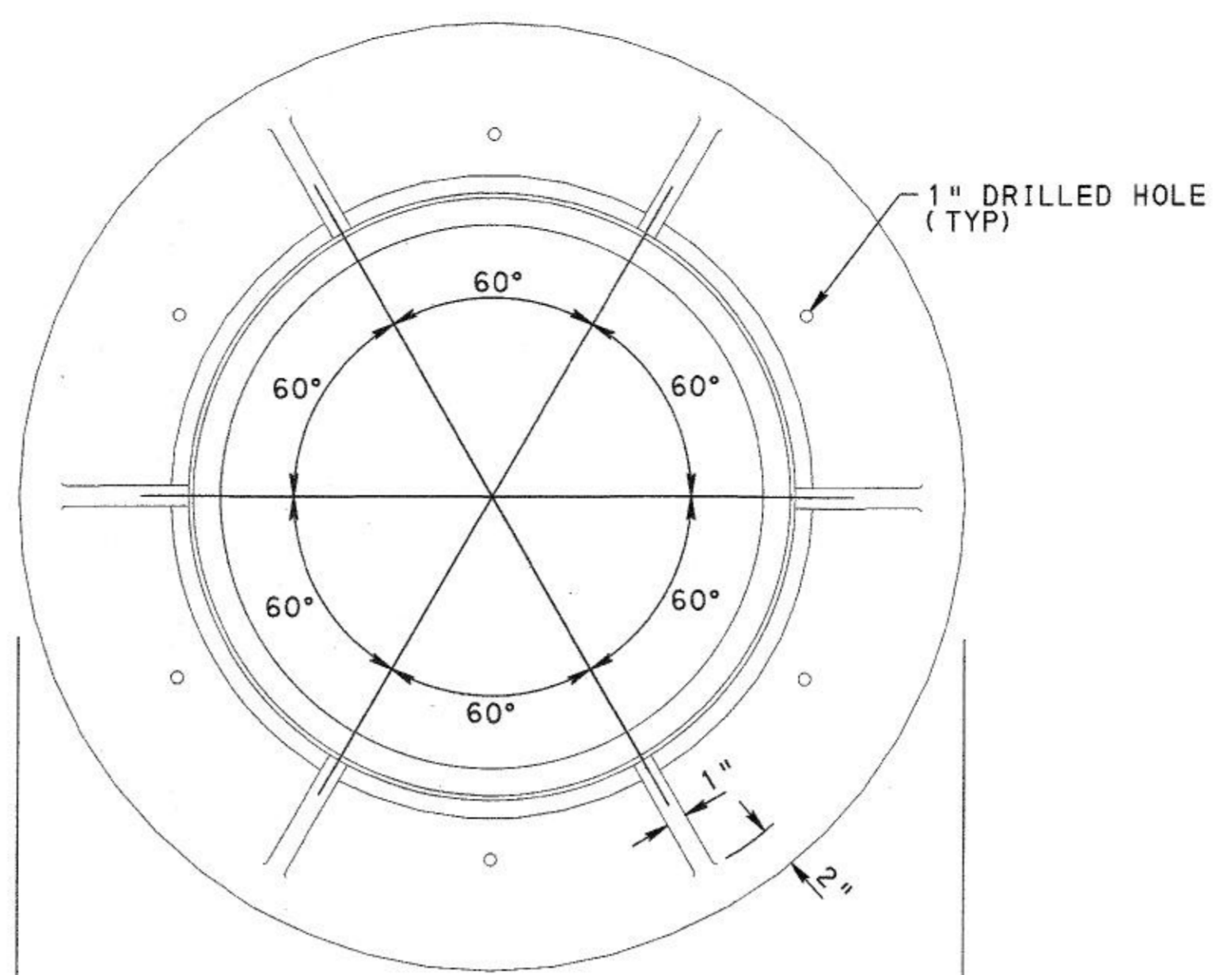




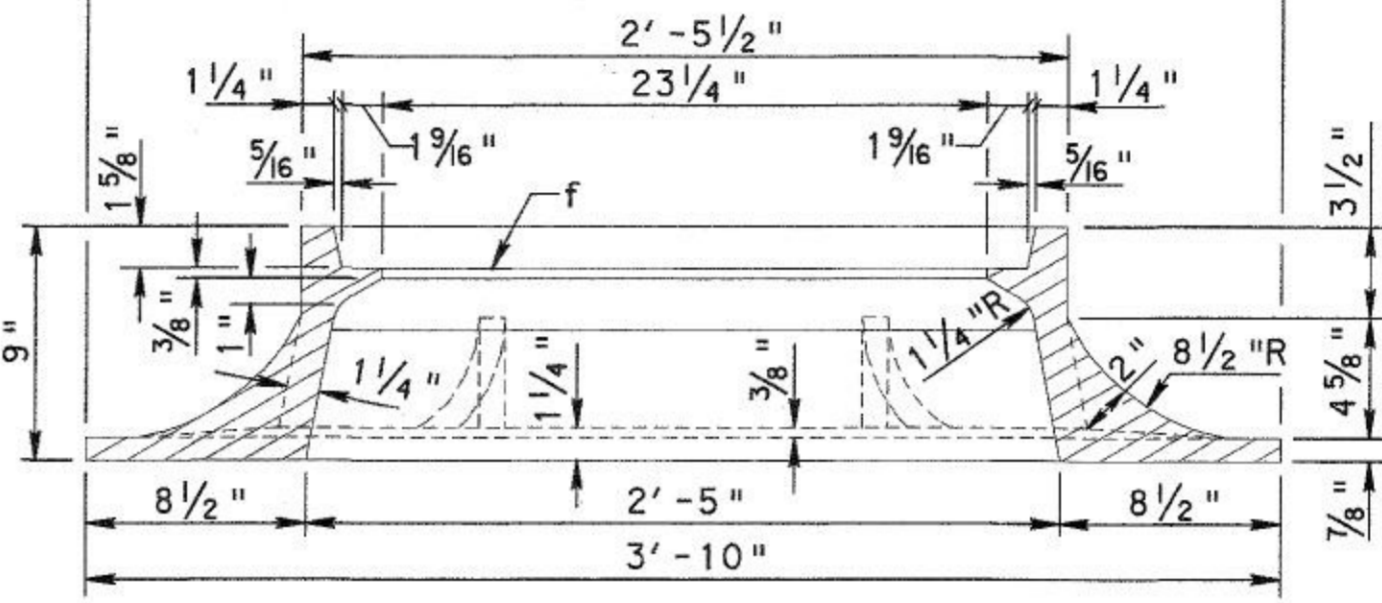
CONCRETE CURB DETAIL



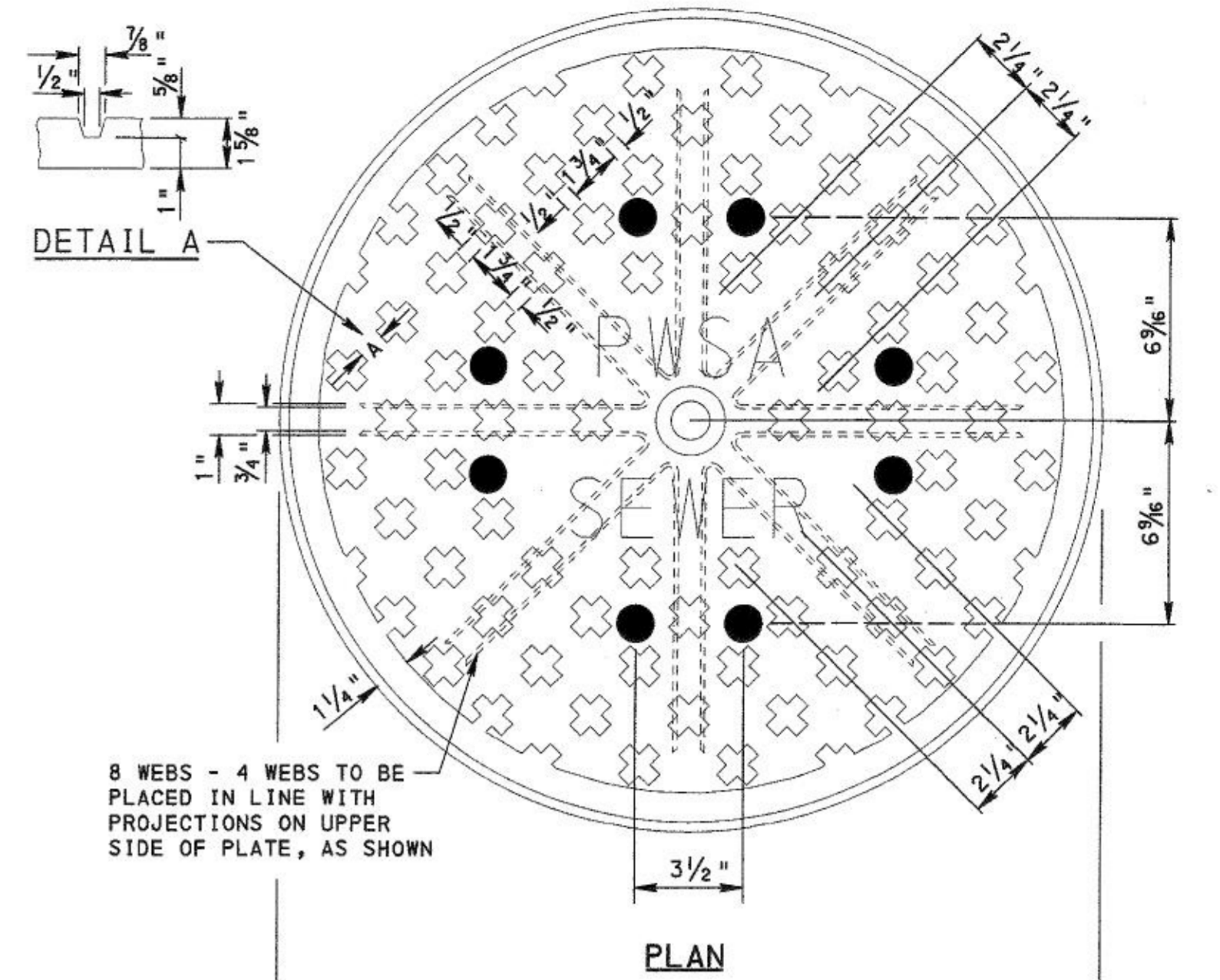
PLAN



PLAN

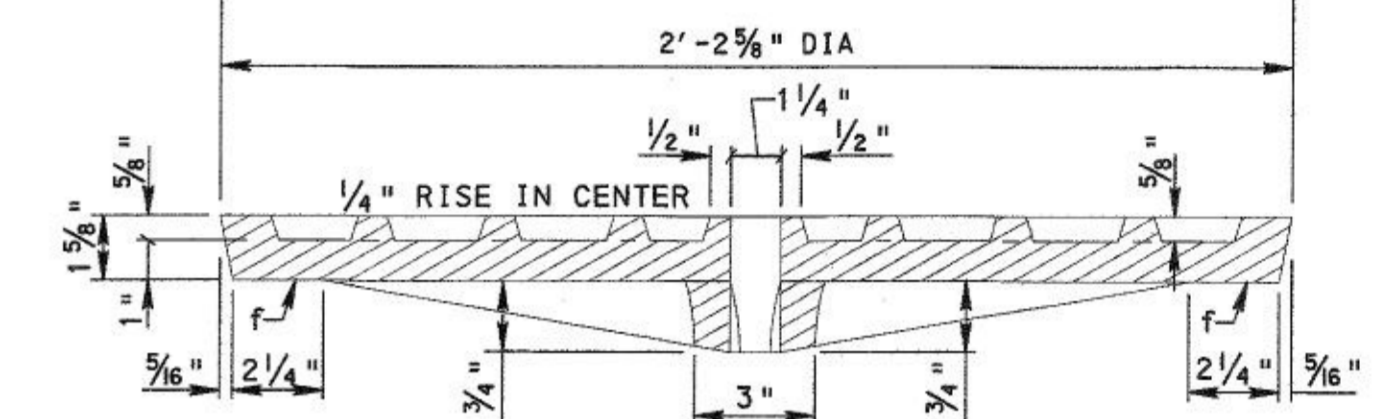


SECTION



PLAN

8 WEBS - 4 WEBS TO BE PLACED IN LINE WITH PROJECTIONS ON UPPER SIDE OF PLATE, AS SHOWN



SECTION

NOTES:

- 2" HIGH LETTERING SHALL NOTE "PWSA" AND "SEWER" FOR ALL COMBINATION AND SANITARY SEWERS. FOR STORM ONLY SEWERS, CHANGE THE LABEL 'SEWER' TO 'STORM'.
- FRAMES AND COVERS MUST BE MACHINED TO INSURE GOOD BEARING AND PROPER FIT IN ANY POSITION.
- VENT HOLES IN LID REQUIRED FOR COMBINATION AND SANITARY SEWERS (AS DIRECTED). VENT HOLES IN LID FOR STORM SEWERS ARE OPTIONAL.
- CAST IRON SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS, ASTM DESIGNATION: A48 CLASS No. 30 MINIMUM STRENGTH.

PITTSBURGH WATER & SEWER AUTHORITY  
MANHOLE FRAME CASTING (CITY OF PGH / PWSA NO. 26)  
DETAIL DRAWING MFC26  
NTS

NOTES:

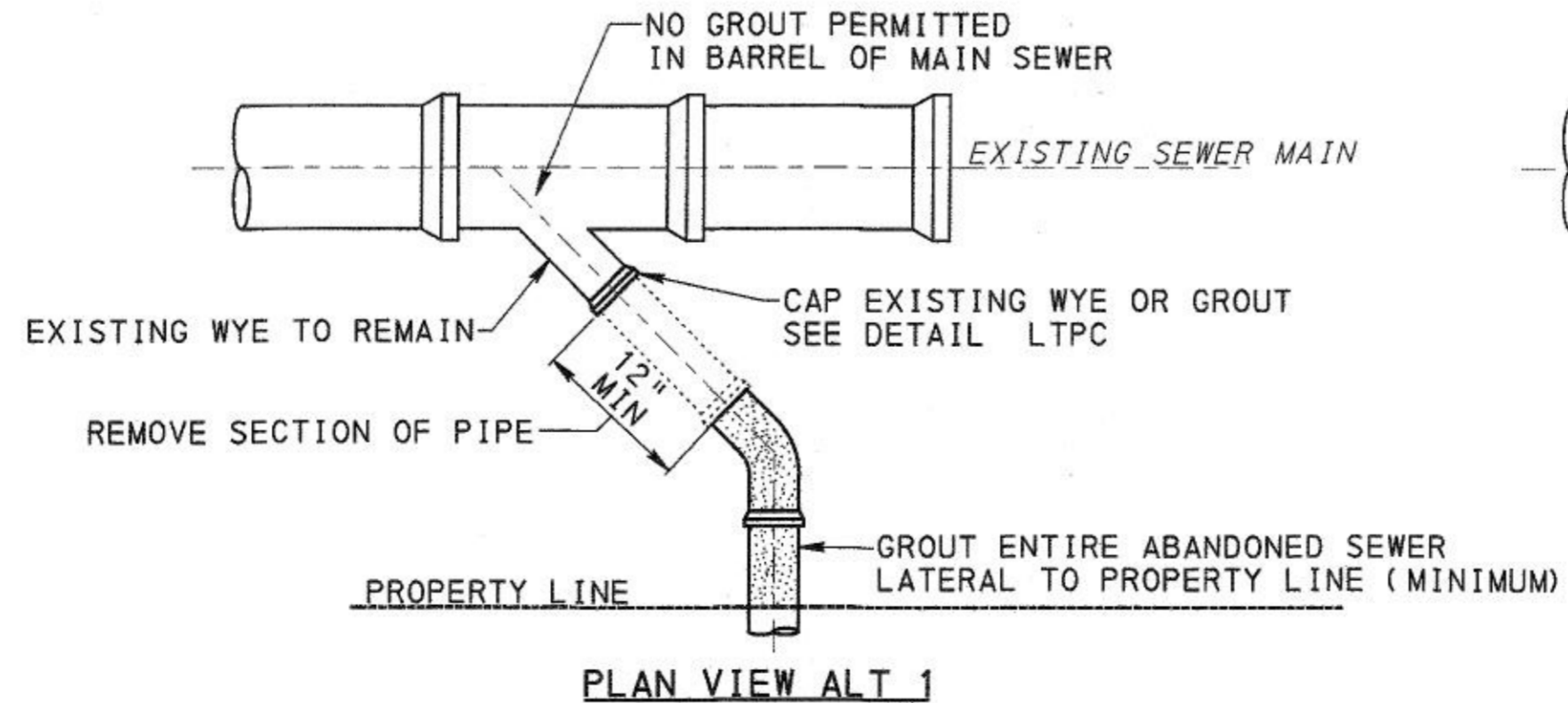
- FRAMES AND COVERS MUST BE MACHINED TO INSURE GOOD BEARING AND PROPER FIT IN ANY POSITION.
- CAST IRON SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS, ASTM DESIGNATION: A48 CLASS No. 30 GRADE MINIMUM STRENGTH.

PITTSBURGH WATER & SEWER AUTHORITY  
SEWER MANHOLE COVER CASTING  
DETAIL DRAWING SMHCOV  
NTS

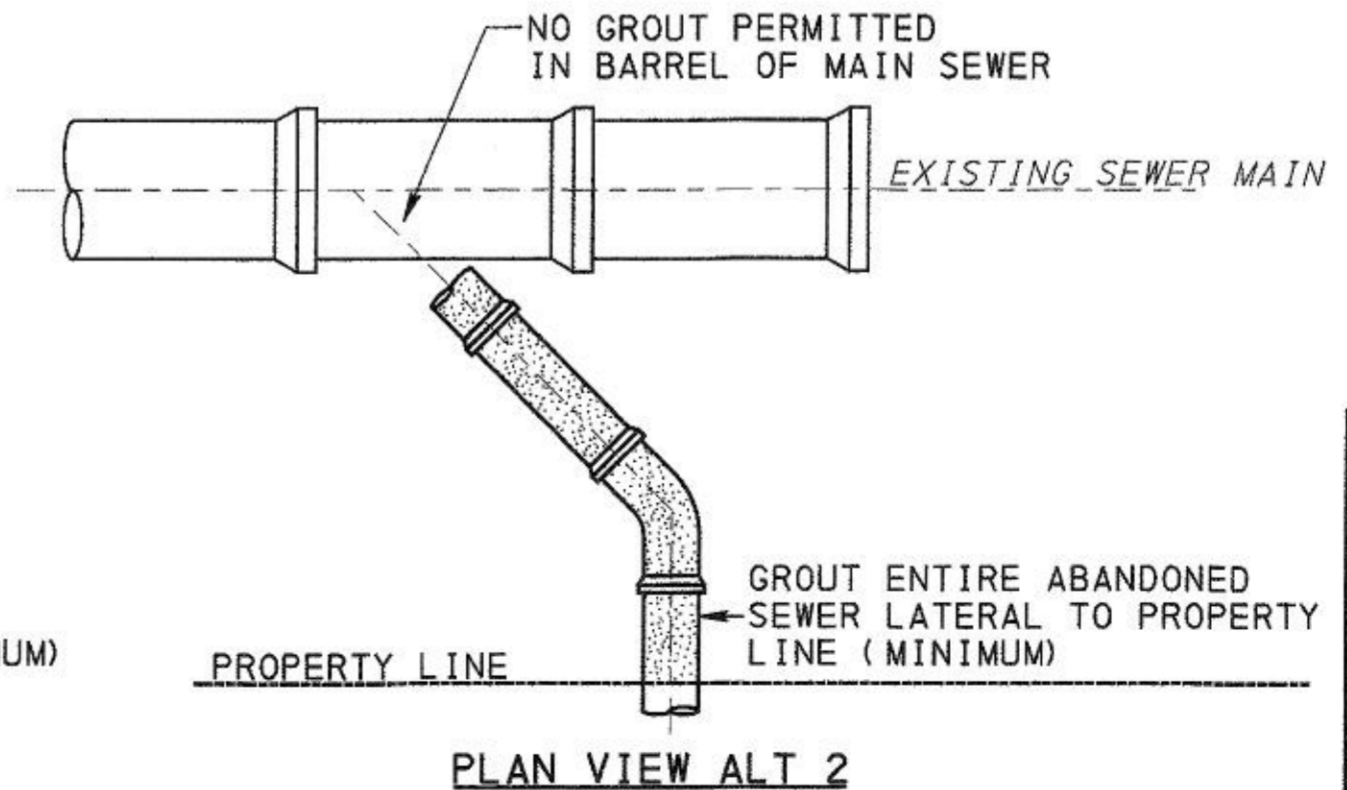
NOTES:

- SEE SPECIFICATIONS FOR EXCAVATION, CONSTRUCTION, AND BACKFILLING WITH APPROVED AGGREGATE AND CEMENT MIXTURES.
- CEMENT CONCRETE FOR CATCH BASIN WALL SHALL BE 4000 PSI CLASS P, 12" THICK PLAIN CONCRETE, OR 8" THICK REINFORCED CONCRETE FOR BASE AND WALLS. VERTICAL BARS FOR WALL NO. 6 REBAR AT 6" O.C.; HORIZONTAL BARS FOR WALL AND/OR BASE SLAB NO. 4 REBAR AT 12" O.C.
- ALL OUTSIDE JOINTS TO BE STRUCK FLUSH.
- CHAMFER ALL EXPOSED EDGES 1" MINIMUM.
- PRECAST INLETS PERMITTED, BUT MUST BE SUBMITTED FOR PWSA APPROVAL BEFORE CONSTRUCTION.
- CASTING NUMBERS ARE CITY OF PITTSBURGH/PWSA STANDARDS. HOOK PATTERN NO. 404; TRAP PATTERN NO. 402-15 OR APPROVED EQUAL.
- TYPICAL STORM INLET DEPTH IS 4' FROM BOX FLOOR TO TOP OF BOX WALL; TYPICAL CATCH BASIN DEPTH IS 6' FROM BOX FLOOR TO TOP OF BOX WALL.
- HOOD AND TRAP MUST BE SEALED TO CATCH BASIN WALL AS DIRECTED.

PITTSBURGH WATER & SEWER AUTHORITY  
3-FLANGE FRAME TYPE 11 CATCH BASIN  
DETAIL DRAWING CB2005  
NTS



PLAN VIEW ALT 1



PLAN VIEW ALT 2

PITTSBURGH WATER & SEWER AUTHORITY  
TERMINATION SEWER LATERAL  
DETAIL DRAWING SLT1  
NTS

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH  
PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

SEWER DETAILS

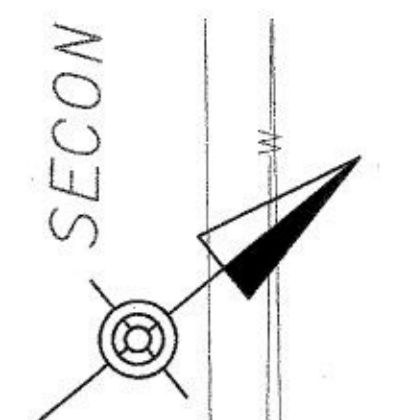
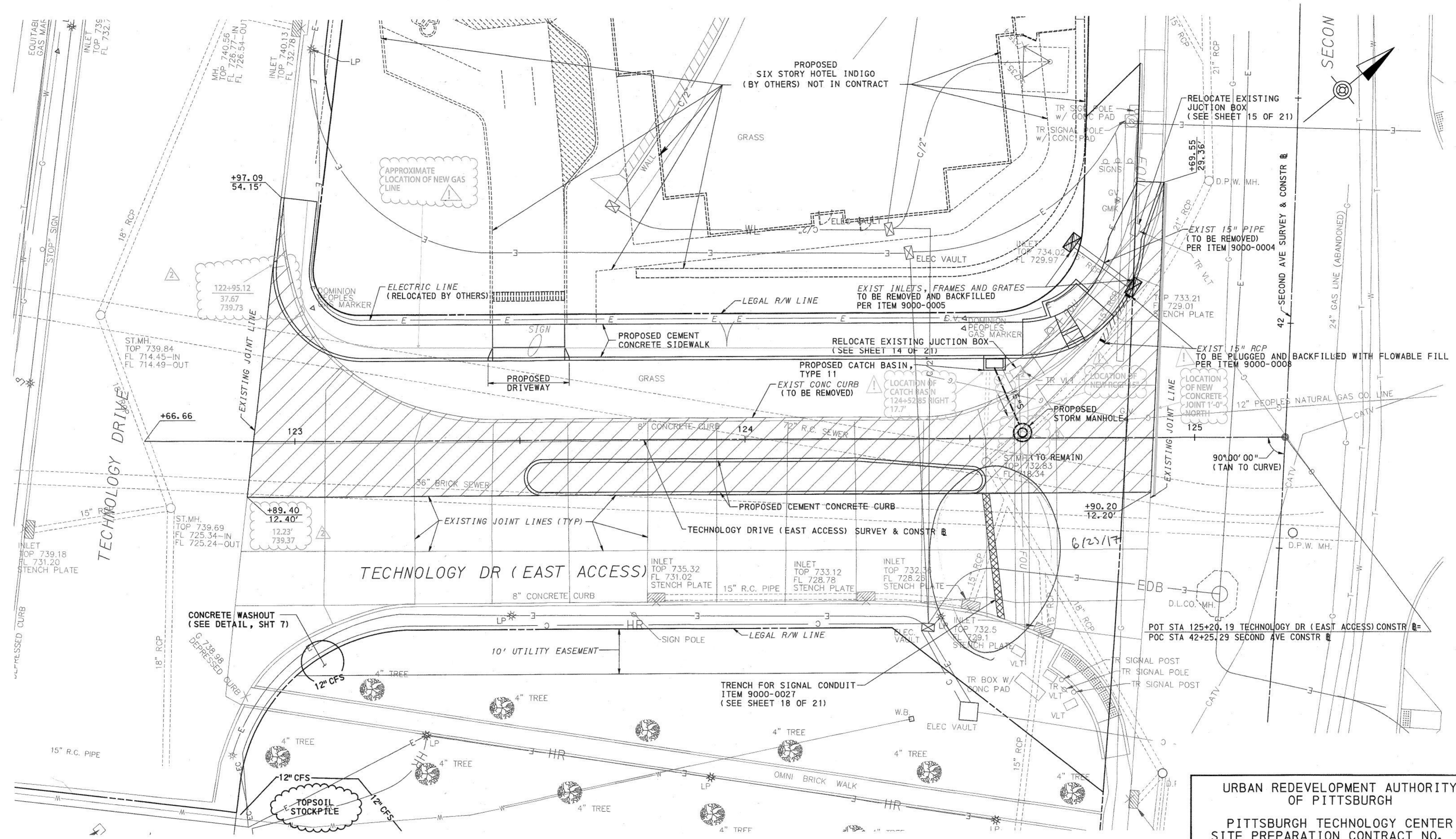
SCALE: NONE SHEET NO. 9 OF 21 ACCESSION NO. A(19)-008  
DATE: 2/23/17 CASE NO. C-5-1

Record Drawings

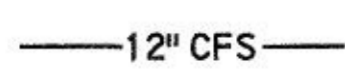

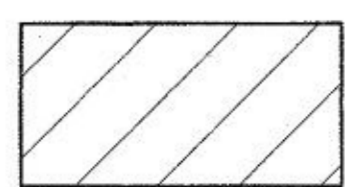
3/28/2017 \\usps111p0002\proj\projects\Transportation\1555\60445862\_Batres\_S\free\_t\1\den\log\Caddy\Plans\Cons\rc\Batres\_Detail106.dgn

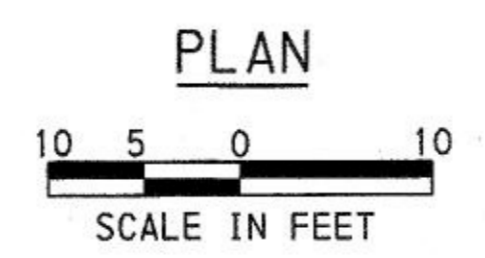
| BY | DATE | REVISIONS |
|----|------|-----------|
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|    |      |           |
|    |      |           |

6/21/2017 \\usg1114\p662\Barrat\Projects\Transportation\1555\60445862\Bates\_S\Tree\1\1den\Imp\Cadd\Plan\Cons\Tr\Bates\_Demo\_Sht01.dgn



**LEGEND**

-  12" CFS 12" COMPOST FILTER SOCK
-  INLET FILTER BAG
-  REMOVE EXISTING CONCRETE PAVEMENT  
SAWCUT FULL DEPTH AT EXISTING JOINT LINES  
(CLASS 1 EXCAVATION, MODIFIED (REMOVAL OF  
TECHNOLOGY DRIVE (EAST) PAVMENT AND CURBS))



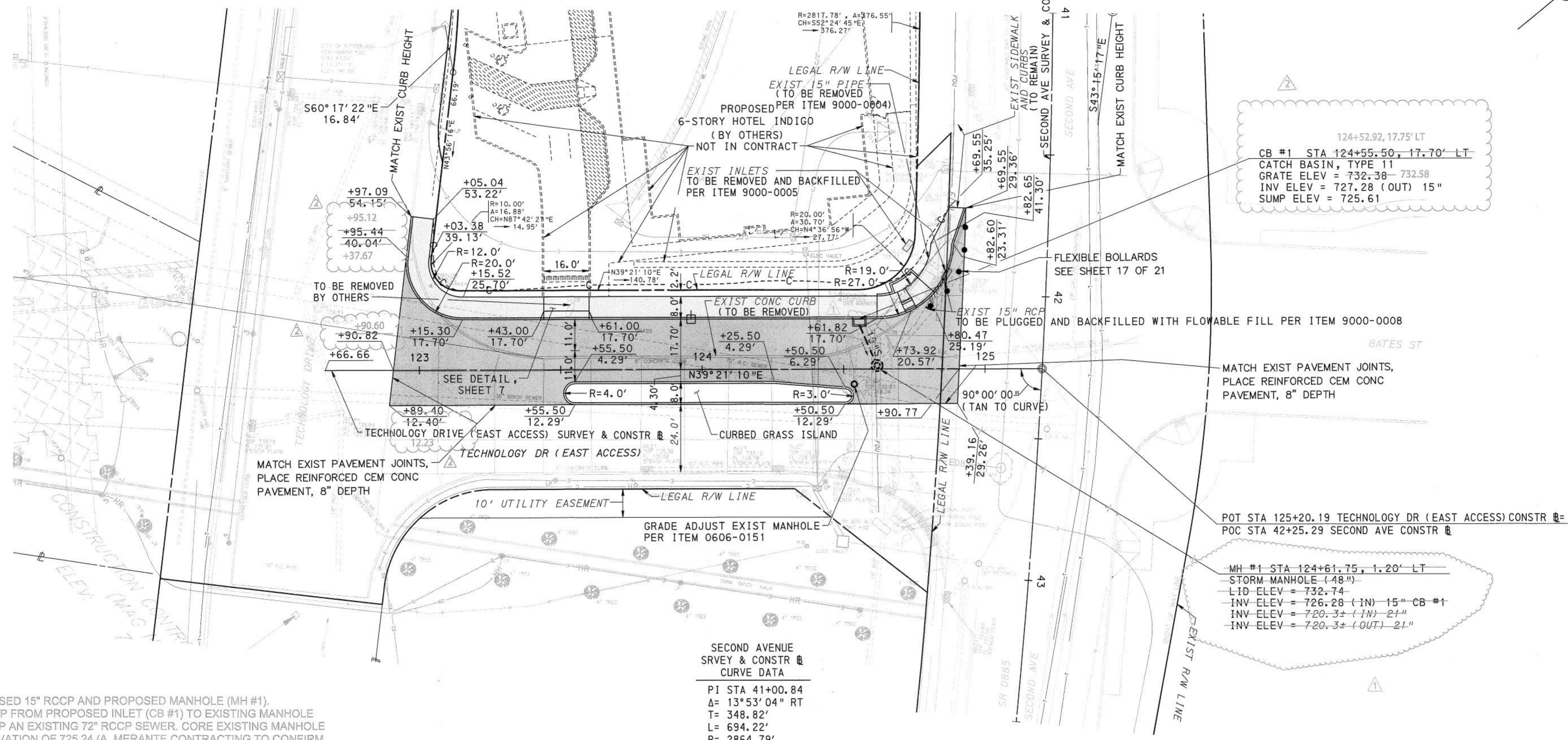
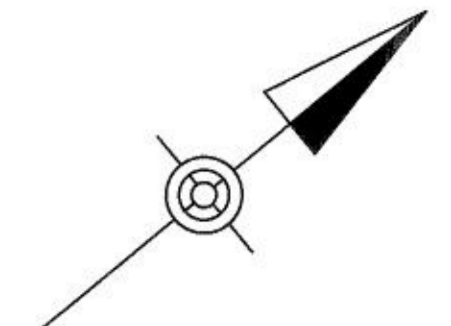
URBAN REDEVELOPMENT AUTHORITY  
 OF PITTSBURGH  
  
 PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT NO. 14  
 TECHNOLOGY DRIVE (EAST ACCESS)  
 IMPROVEMENTS  
  
 CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF  
 TRANSPORTATION AND ENGINEERING  
  
 DEMOLITION AND E&SCP PLAN

Record Drawings

SCALE: AS SHOWN SHEET NO. 10 OF 21 ACCESSION NO. A(19)-669  
 DATE: 2/23/17 CASE NO. C-5-1

| FIELD DATA | DATE      | SUPERVISOR  | REVISIONS | CHARACTER | DATE      |
|------------|-----------|-------------|-----------|-----------|-----------|
| BY         |           |             |           |           |           |
| CHECKED    | INSPECT'D | CAL. CONST. |           |           | 3/23/2017 |
| CALC. BOOK |           |             |           |           | 3/24/2017 |

BM #2 ELEV 739.05  
 31.9' RT STA 44+91.6  
 SURVEY & CONST  
 SECOND AVE  
 X-CUT ON FIRE HYDRANT  
 FLANGE BOLT



124+52.92, 17.75' LT  
 CB #1 STA 124+55.50, 17.70' LT  
 CATCH BASIN, TYPE 11  
 GRATE ELEV = 732.38 - 732.58  
 INV ELEV = 727.28 (OUT) 15"  
 SUMP ELEV = 725.61

MH #1 STA 124+61.75, 1.20' LT  
 STORM MANHOLE (48")  
 LID ELEV = 732.74  
 INV ELEV = 726.28 (IN) 15" CB #1  
 INV ELEV = 720.32 (IN) 21"  
 INV ELEV = 720.32 (OUT) 21"

SECOND AVENUE  
 SURVEY & CONST  
 CURVE DATA  
 PI STA 41+00.84  
 Δ = 13°53'04" RT  
 T = 348.82'  
 L = 694.22'  
 R = 2864.79'  
 E = 21.16'  
 PC STA 37+52.02  
 PT STA 44+46.25

△ ELIMINATE PROPOSED 15" RCCP AND PROPOSED MANHOLE (MH #1). REDIRECT 15" RCCP FROM PROPOSED INLET (CB #1) TO EXISTING MANHOLE WHICH IS SET ATOP AN EXISTING 72" RCCP SEWER. CORE EXISTING MANHOLE AT AN INVERT ELEVATION OF 725.24 (A. MERANTE CONTRACTING TO CONFIRM THIS LOCATION DOES NOT INTERFERE WITH EXISTING MANHOLES STEPS AND IS AT LEAST 8" MINIMUM FROM MANHOLE RISER SECTION. COMPLETE PIPE CORE WITH WITH PWSA STANDARD DETAIL SSC-1, SEE SHEET 8 OF 21.

LEGEND

- CEMENT CONCRETE SIDEWALK (REINF.) HANDICAP RAMP
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- CEMENT CONCRETE CURB
- EXISTING LIGHT POLE AND FIXTURE
- FLEXIBLE BOLLARD
- PROPOSED POLE/LUMINAIRE
- 15" S STORM SEWER
- PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
- PLAIN CEMENT CONCRETE SIDEWALK, 8" DEPTH
- REINFORCED CEMENT CONCRETE PAVEMENT, 8" DEPTH
- EXISTING UNDERGROUND FIBER OPTIC LINE
- LIMITS OF EXCAVATION

NOTE: SEE SHEET 5 OF 21 FOR SIDEWALK IMPROVEMENT DETAILS.



CONSTRUCTION REVISION DRAWING

URBAN REDEVELOPMENT AUTHORITY  
 OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT NO. 14  
 TECHNOLOGY DRIVE (EAST ACCESS)  
 IMPROVEMENTS

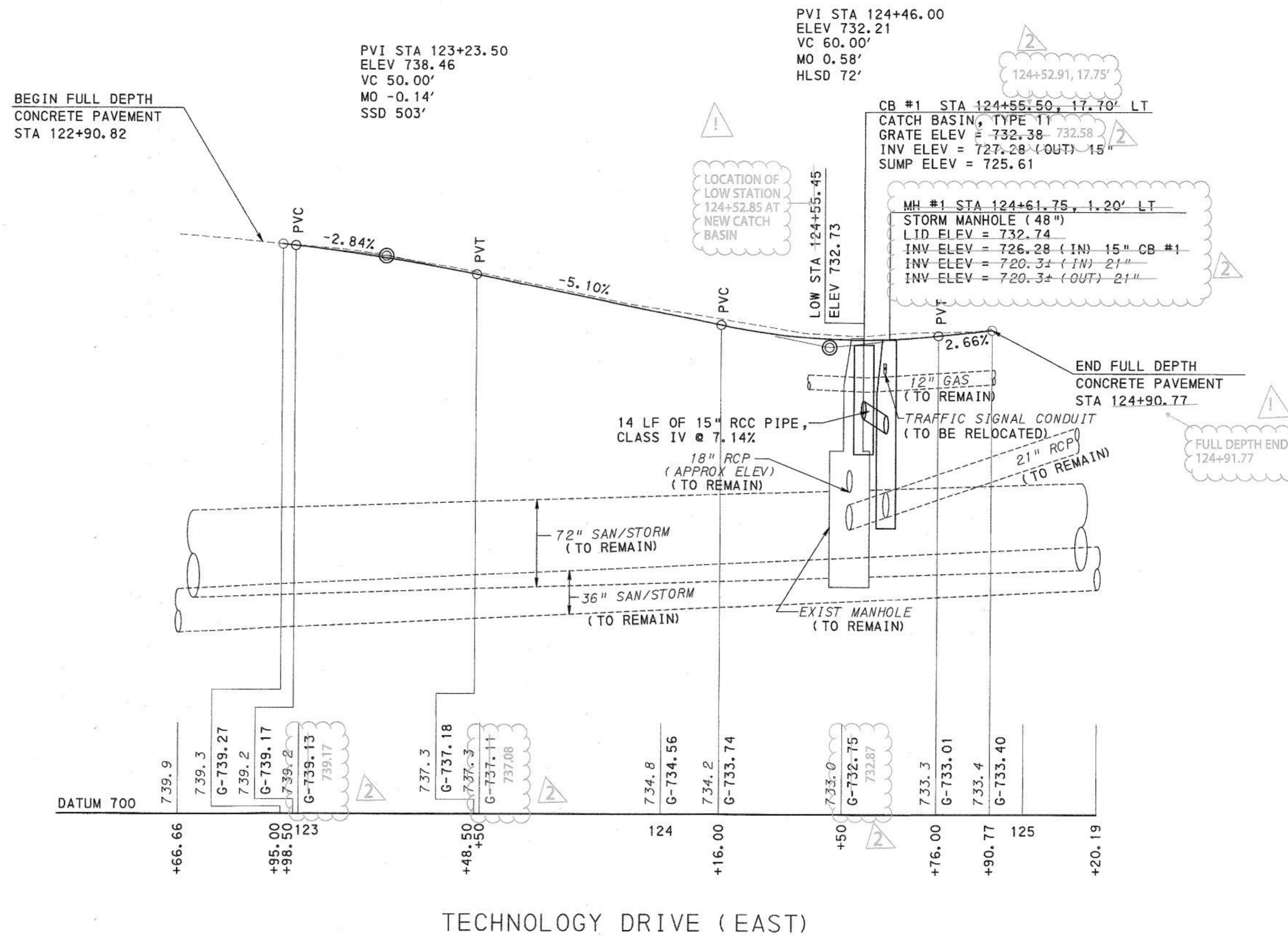
CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF  
 TRANSPORTATION AND ENGINEERING

ROADWAY PLAN  
 STA 122+66.66 TO STA 125+20.19

SCALE: AS SHOWN SHEET NO. 11 OF 21 ACCESSION NO. A-117-011  
 DATE: 2/23/17 CASE NO. C-5-1

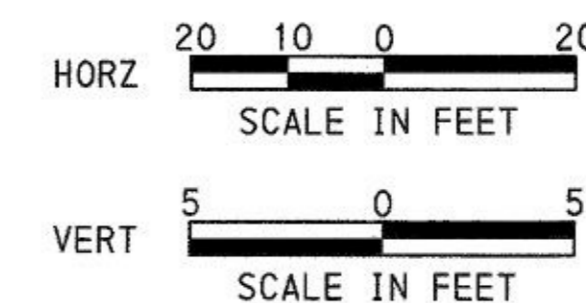
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| BY      |           |    |           |      |
| CREATED | 3/14/2018 |    |           |      |
| DATE    | 9/21/2017 |    |           |      |

3/28/2017 \\ussp111\p002\Data\Projects\Transportation\1555\60445862\_Batres\_Street\_Widening\Cadd\Plans\Const\Bates\_Roadway\ProfileSh01.dgn



TECHNOLOGY DRIVE (EAST)

Record Drawings



URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

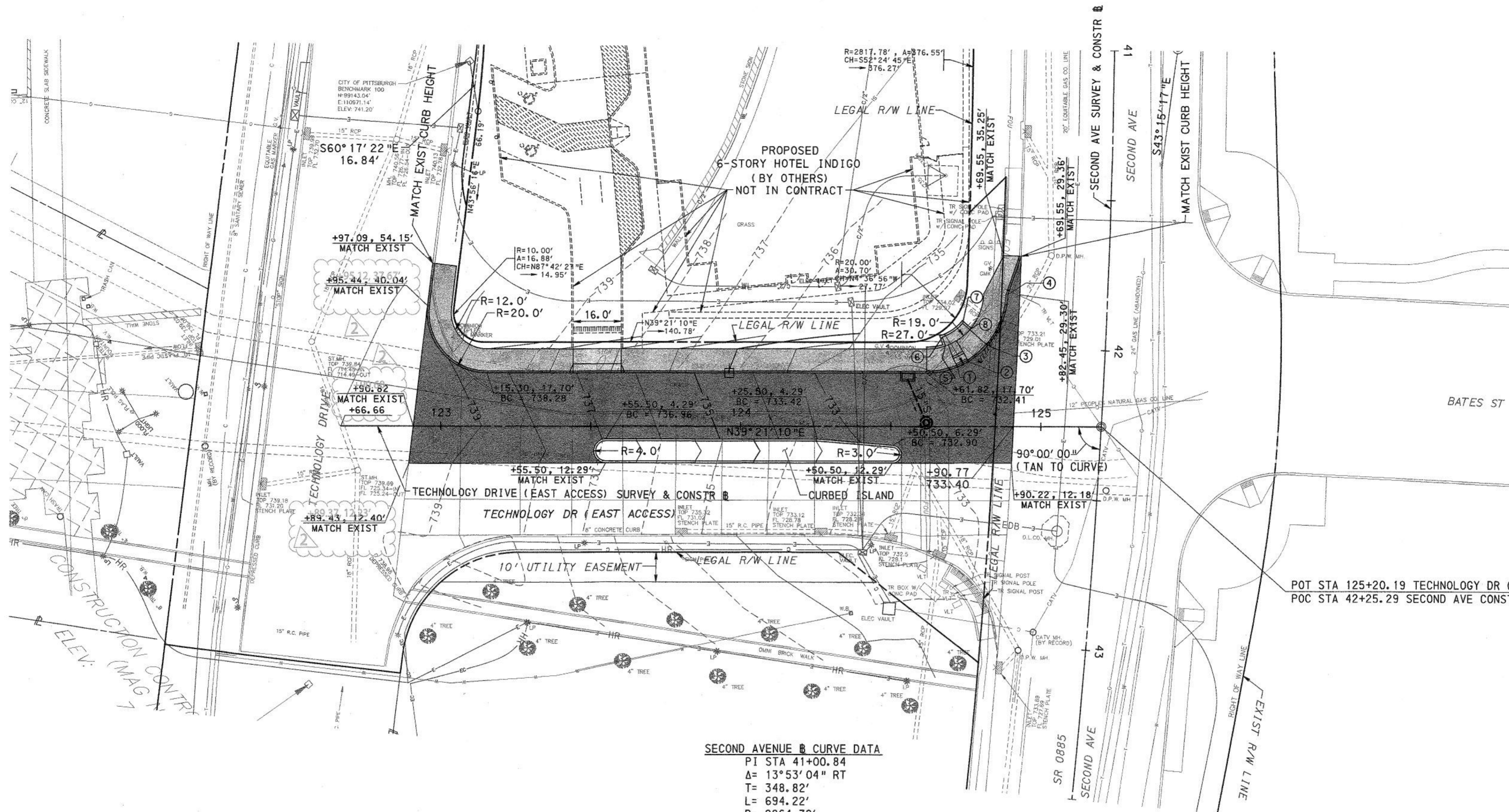
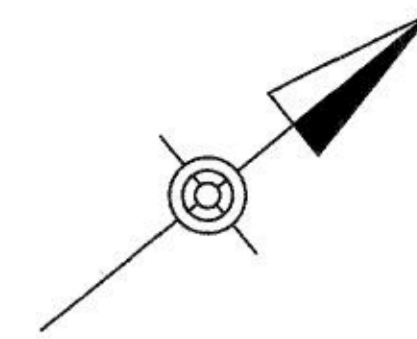
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

PROFILE - TECHNOLOGY DRIVE (EAST)

SCALE: AS SHOWN SHEET NO. 12 OF 21 ACCESSION NO. A101-01  
DATE: 2/23/17 CASE NO. C-5-1

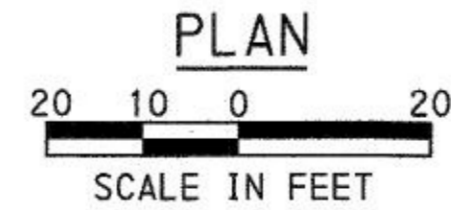
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|------------|-----------|-------------|-----------|------|
| BY         |           |             | CHARACTER | DATE |
| CHECKED    | INSPECT'D | CON.-CONST. |           |      |
| CALC. BOOK | PC        |             |           |      |

BM #2 ELEV 739.05  
 31.9' RT STA 44+91.6  
 SURVEY & CONST #  
 SECOND AVE  
 X-CUT ON FIRE HYDRANT  
 FLANGE BOLT



- ① 124+72.10, 19.74' LT, BC = 732.64
- ② 124+75.67, 21.53' LT, BC = 732.73
- ③ 124+82.11, 26.90' LT, BC = 732.91
- ④ 41+82.60, 33.31' RT, BC = 733.32
- ⑤ 124+68.03, 26.75' LT, BOS = 733.06
- ⑥ 124+67.00, 29.74' LT, BC = 733.19
- ⑦ 124+73.72, 34.26' LT, BC = 733.64
- ⑧ 124+76.10, 32.18' LT, BOS = 733.64

**SECOND AVENUE B CURVE DATA**  
 PI STA 41+00.84  
 $\Delta = 13^{\circ}53'04''$  RT  
 T= 348.82'  
 L= 694.22'  
 R= 2864.79'  
 E= 21.16'  
 PC STA 37+52.02  
 PT STA 44+46.25



**LEGEND**

|                 |                  |
|-----------------|------------------|
| — 735 —         | PROPOSED CONTOUR |
| - - - 735 - - - | EXISTING CONTOUR |
| BC              | BOTTOM OF CURB   |
| TC              | TOP OF CURB      |

| FIELD DATA |           | DRANN       | SUPPLY SD |
|------------|-----------|-------------|-----------|
| BY         | VOLUME    | DATE        | DATE      |
| CREATED    | INSPECT'D | EXD. CONST. |           |
| CALC. BOOK | PC        |             |           |

| REVISIONS |      |
|-----------|------|
| CHARACTER | DATE |
|           |      |

Record Drawings

URBAN REDEVELOPMENT AUTHORITY  
 OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT NO. 14  
 TECHNOLOGY DRIVE (EAST ACCESS)  
 IMPROVEMENTS

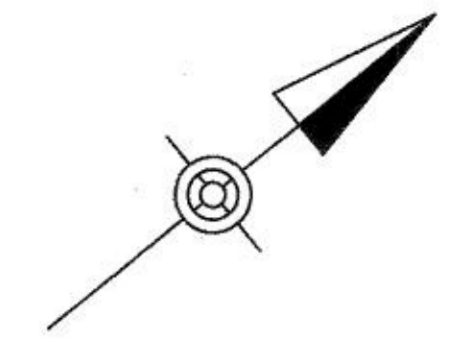
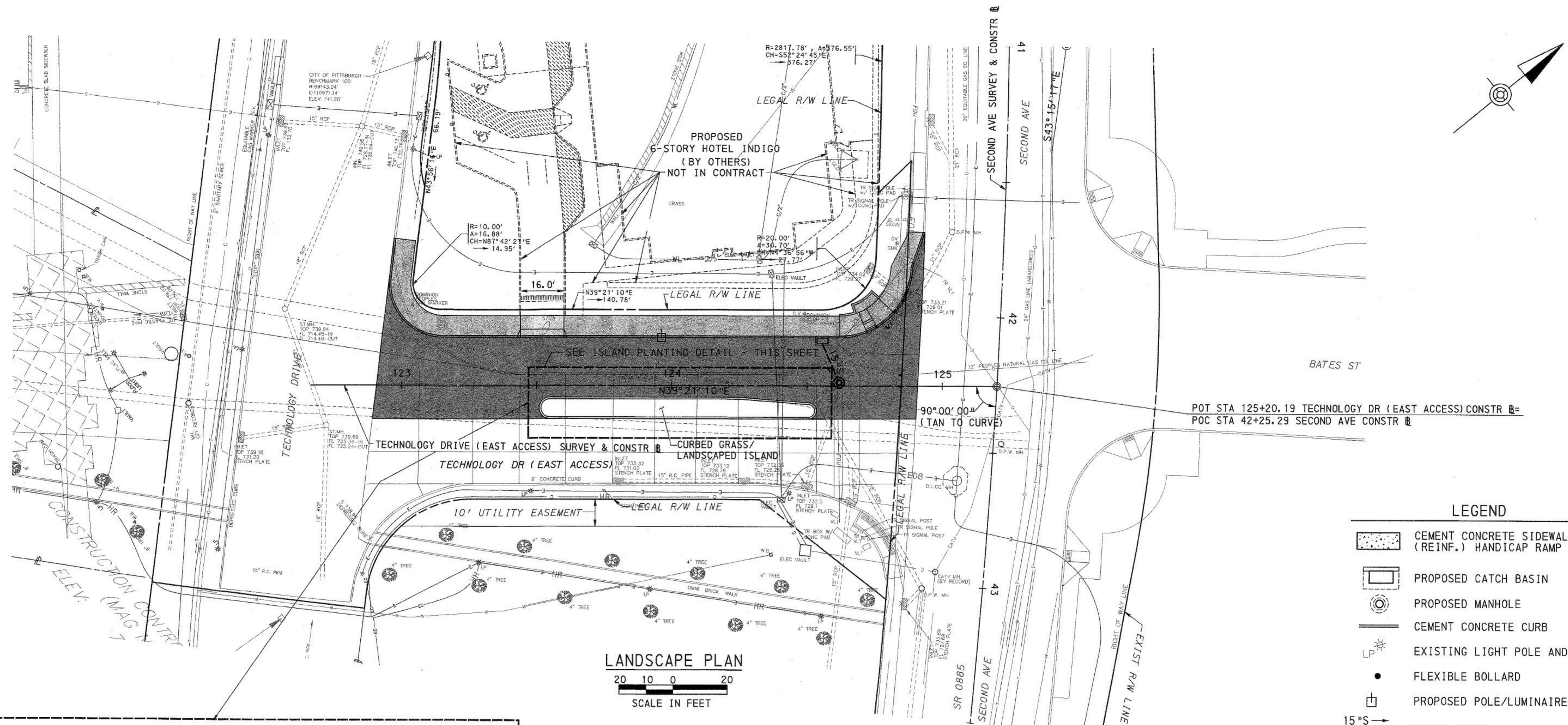
CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF  
 TRANSPORTATION AND ENGINEERING

CONTOUR GRADING PLAN  
 STA 122+66.60 TO STA 125+20.19

SCALE: AS SHOWN SHEET NO. 13 OF 21 ACCESSION NO. A(19)-013  
 DATE: 2/23/17 CASE NO. C-5-1

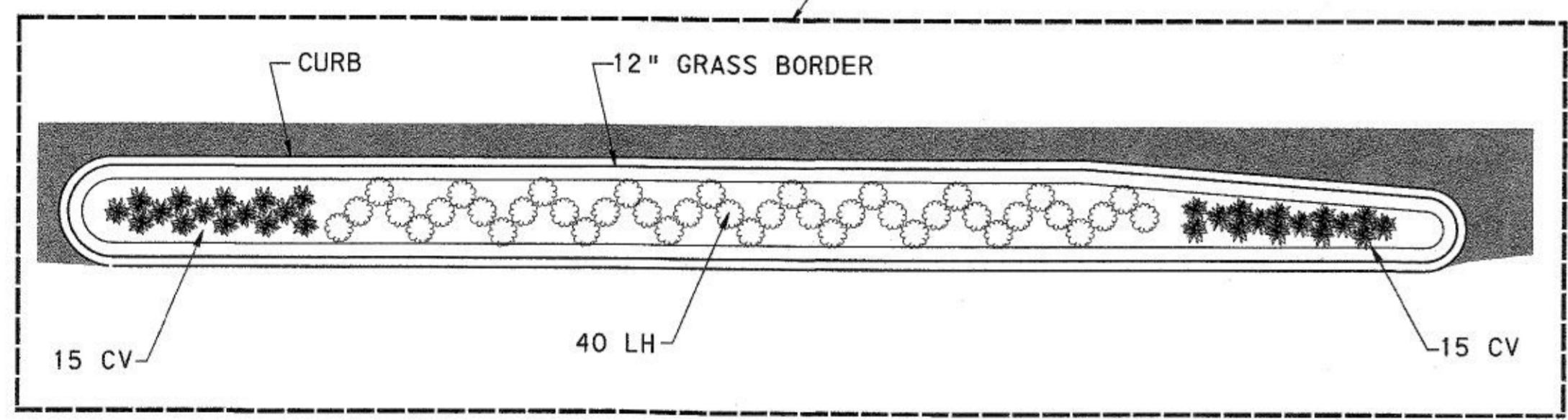
NOTE: SEE SHEET 5 OF 21 FOR SIDEWALK IMPROVEMENT DETAILS.

3/29/2017 \\usp111fp002\data\Projects\Transportation\155560445862\_Bates\_Siree1.W\den\mg\Cadd\Plans\Const\Bates\_Grad\mg\lanSh101.dgn



**LANDSCAPE PLAN**  
SCALE IN FEET

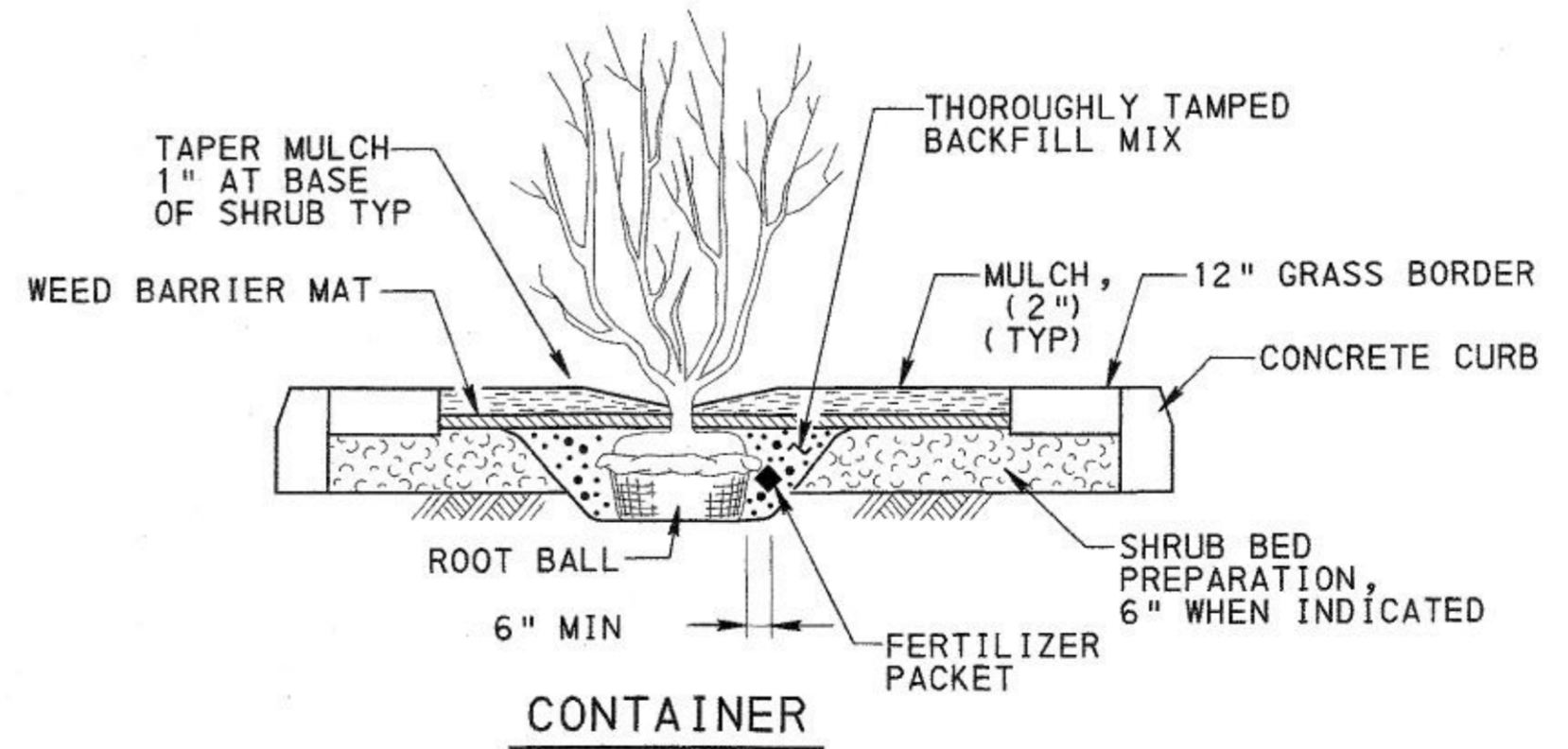
- LEGEND**
- CEMENT CONCRETE SIDEWALK (REINF.) HANDICAP RAMP
  - PROPOSED CATCH BASIN
  - PROPOSED MANHOLE
  - CEMENT CONCRETE CURB
  - EXISTING LIGHT POLE AND FIXTURE
  - FLEXIBLE BOLLARD
  - PROPOSED POLE/LUMINAIRE
  - STORM SEWER
  - PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
  - PLAIN CEMENT CONCRETE SIDEWALK, 8" DEPTH
  - REINFORCED CEMENT CONCRETE PAVEMENT, 8" DEPTH
  - EXISTING UNDERGROUND FIBER OPTIC LINE



**ISLAND PLANTING DETAIL**

SCALE IN FEET

- LEGEND**
- LITTLE HENRY SWEETSPIRE
  - THREADLEAF COREOPSIS



**SHRUB PLANTING**

- NOTES**
- AFTER SIDEWALK PAVING AND CLEANING OPERATIONS ARE COMPLETE, PLACE 4" OF TOP SOIL TO THE LAWN STRIP AND SEED ACCORDING TO THE SPECIFICATIONS.
  - CONTRACTOR IS RESPONSIBLE FOR OBTAINING WATER FOR PLANT MATERIAL.
  - PROTECT PAVED SURFACES DURING EXCAVATION.
  - MULCH ISLAND WITH 2" DEPTH SHREDDED HARDWOOD MULCH.
  - PROVIDE 6" MINIMUM DEPTH OF TOPSOIL IN ISLAND WITH SUITABLE SUBSOIL OF 6" DEPTH (NO STONE BASE).

| QUANTITY | KEY | SCIENTIFIC NAME<br>Common Name                            | SIZE           | COMMENTS         |
|----------|-----|---|----------------|------------------|
| 40       | LH  | Virginia 'Little Henry'<br>"LITTLE HENRY SWEETSPIRE"      | 2 GALLON CONT. | 36" O.C. SPACING |
| 30       | CV  | Coreopsis Verticillata 'Zagreb'<br>"THREADLEAF COREOPSIS" | 1 GALLON CONT. | 16" O.C. SPACING |

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

LANDSCAPE PLAN  
STA 122+66.60 TO STA 125+20.19

SCALE: AS SHOWN SHEET NO. ACCESSION NO. A(19)-013  
DATE: 2/23/17 14 OF 21 CASE NO. C-5-1

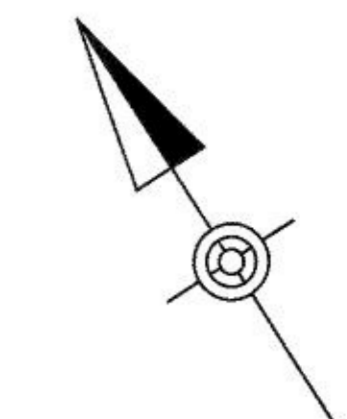
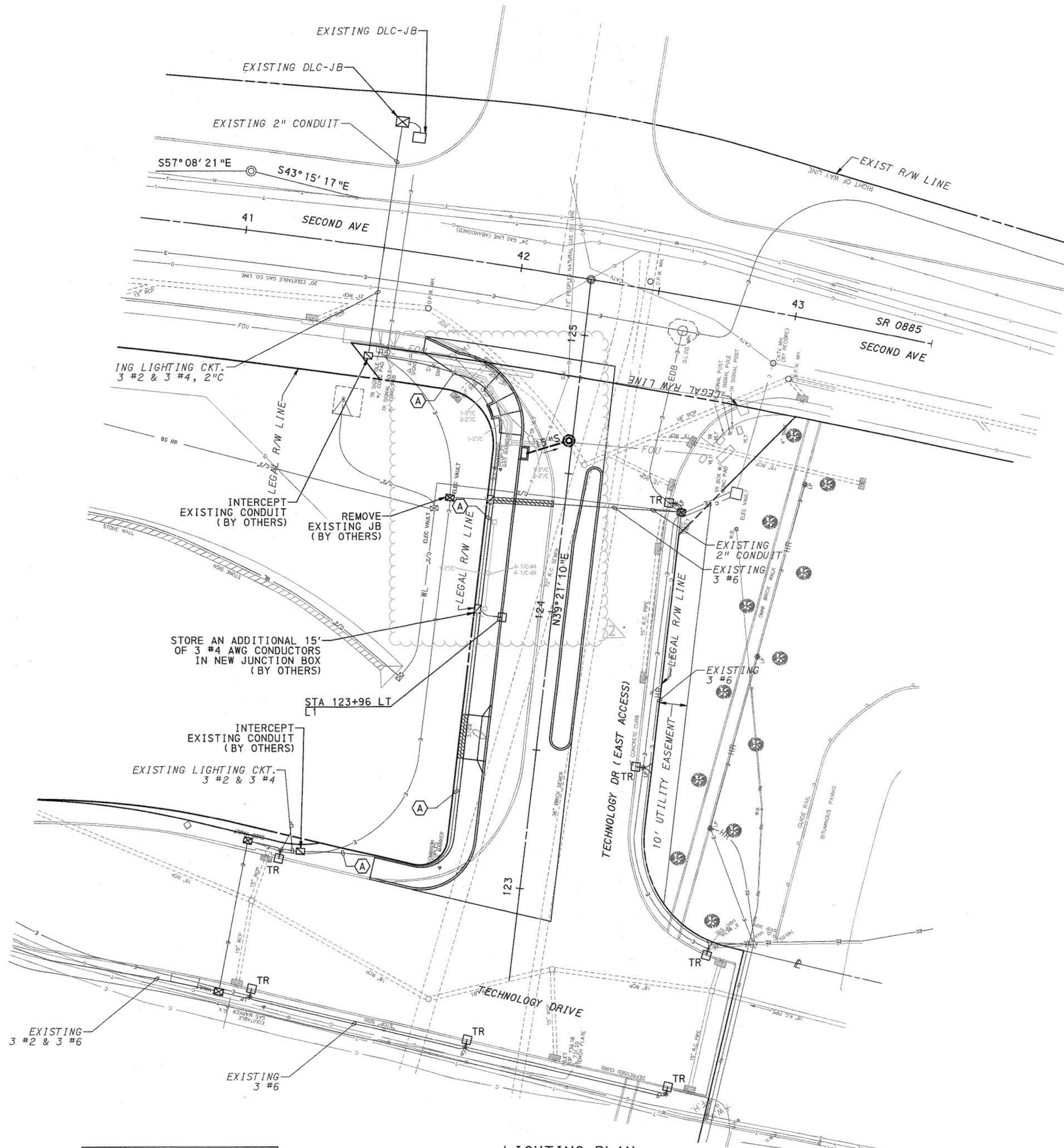
Record Drawings

3/29/2017 \\ussp1111p0202\Draws\Projects\Transportation\1555\60445862-Bates-Street-Widening\Draws\Cadd\Plans\Constr\Bates\_Landscape\lanSh103.dgn

| FIELD DATA | DATE      | SUPERVISOR   | REVISIONS |
|------------|-----------|--------------|-----------|
| BY         |           |              | CHARACTER |
| CHECKED    | INSPECT'D | OK'D - CONJ. | DATE      |
|            |           |              |           |
|            |           |              |           |

**NOTES**

- CONTRACTOR MUST COORDINATE ALL SERVICE CONNECTIONS AND DISCONNECTIONS WITH THE DEPARTMENT OF PUBLIC WORKS STREET LIGHTING DIVISION.
- PLACE NEW JB-1 WITH MODIFIED COVER IN SIDEWALK AREA, MATCH ADJACENT SIDEWALK.
- USE A SWEEP ELBOW WHENEVER POSSIBLE.
- PROVIDE INDIVIDUAL FUSING FOR ALL LUMINAIRES.
- PROVIDE WATERTIGHT, SUBMERSIBLE, PREMOLDED, DISCONNECTABLE CONNECTOR KITS FOR ALL SPLICES.
- RECONNECT EXISTING CIRCUITS AS REQUIRED. ALL ELECTRICAL FIXTURES, DEVICES, ETC. NOT INDICATED SHALL REMAIN AS INSTALLED. IF THE CONTINUITY OF THESE CIRCUITS IS INTERRUPTED BY THE ALTERATIONS, THE ELECTRICAL CONTRACTOR SHALL MAKE ALL PROVISIONS NECESSARY TO RESTORE CONTINUITY AT NO ADDITIONAL PAYMENT.
- DO NOT SCALE DRAWINGS. UTILITY LOCATIONS ARE BASED ON EXISTING MAPPING INFORMATION. EXISTING UTILITY ELEVATIONS ARE APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. VERIFY UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION OF POLE FOUNDATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR HAND DIGGING OR EXPLORATORY EXCAVATION.
- SATISFACTORILY PLACE AND TEST ALL GROUND RODS AND GROUND WIRE AT ALL POLE FOUNDATIONS NECESSARY TO ATTAIN A MAXIMUM RESISTANCE TO EARTH GROUND OF 25 OHMS. INSTALL ADDITIONAL GROUND RODS UNTIL THIS REQUIREMENT IS MET, AT NO ADDITIONAL PAYMENT. PRIOR TO TESTING OF GROUND RODS, SUBMIT A DETAILED REPORT TO THE CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS OUTLINING ALL PROCEDURES AND EQUIPMENT TO BE USED FOR GROUND ROD TESTS. ENSURE THAT ALL TEST RESULTS ARE RECORDED ON P.A. D. O. T. FORM A AND SUBMITTED FOR APPROVAL.
- ENCASE ALL P.V.C CONDUIT THAT LIES WITHIN ROADWAY AND DRIVEWAY AREAS IN CLASS AA CONCRETE, 3" MINIMUM THICKNESS IN ALL DIRECTIONS SURROUNDING THE CIRCUMFERENCE OF THE CONDUIT, CONCRETE ENCASEMENT IS INCLUDED IN THE CONDUIT ITEM AT NO ADDITIONAL PAYMENT.
- PROVIDE HEAT SHRINK SPLICES IN JUNCTION BOXES THAT CAN NOT BE PROVIDED WITH POSITIVE DRAINAGE.
- PROVIDE A CONTINUOUS EQUIPMENT GROUND CONDUCTOR FOR PVC CONDUIT, AS PER THE NATIONAL ELECTRICAL CODE, AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL WORK IN STRICT COORDINATION WITH LOCAL UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES PRIOR TO COMMENCEMENT OF THIS WORK. ALL DAMAGES INCURRED TO EXISTING UTILITIES WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL PAYMENT. MAINTAIN A MINIMUM 18" CLEARANCE FROM ALL UNDERGROUND UTILITIES.
- MAINTAIN EXISTING LIGHTING SYSTEM UNTIL NEW SYSTEM IS OPERATIONAL. PROVIDE ANY TEMPORARY POWER CONNECTIONS THAT MAY BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM DURING CONSTRUCTION.



**LEGEND**

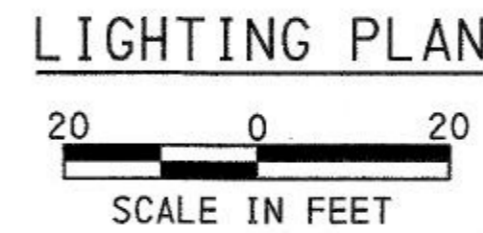
|      |  |
|------|--|
| TR □ | EXISTING STERNER LUMINAIRES TO REMAIN IN PLACE.                            |
| □    | STERNER LUMINAIRE AND 30' STEEL LIGHTING POLE, 400W TYPE II, HPS, 30' M.H. |
| ⊠    | EXISTING JUNCTION BOX  |
| ⊞    | CITY STANDARD CONCRETE JUNCTION BOX, JB-1                                  |
| —    | 2" CONDUIT   |
| ▨    | CONCRETE ENCASED CONDUIT   |

**URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH**  
  
**PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS**  
  
**CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING**  
  
**LIGHTING PLAN**  
  
 SCALE: AS SHOWN    SHEET NO.    ACCESSION NO. **A(19)-64**  
 DATE: 2/23/17    15 OF 21    CASE NO. **C-5-1**

**CONDUIT SCHEDULE**

|     |                            |
|-----|----------------------------|
| (A) | 3 #2, #6G, 3 #4, #6G, 2" C |
|-----|----------------------------|

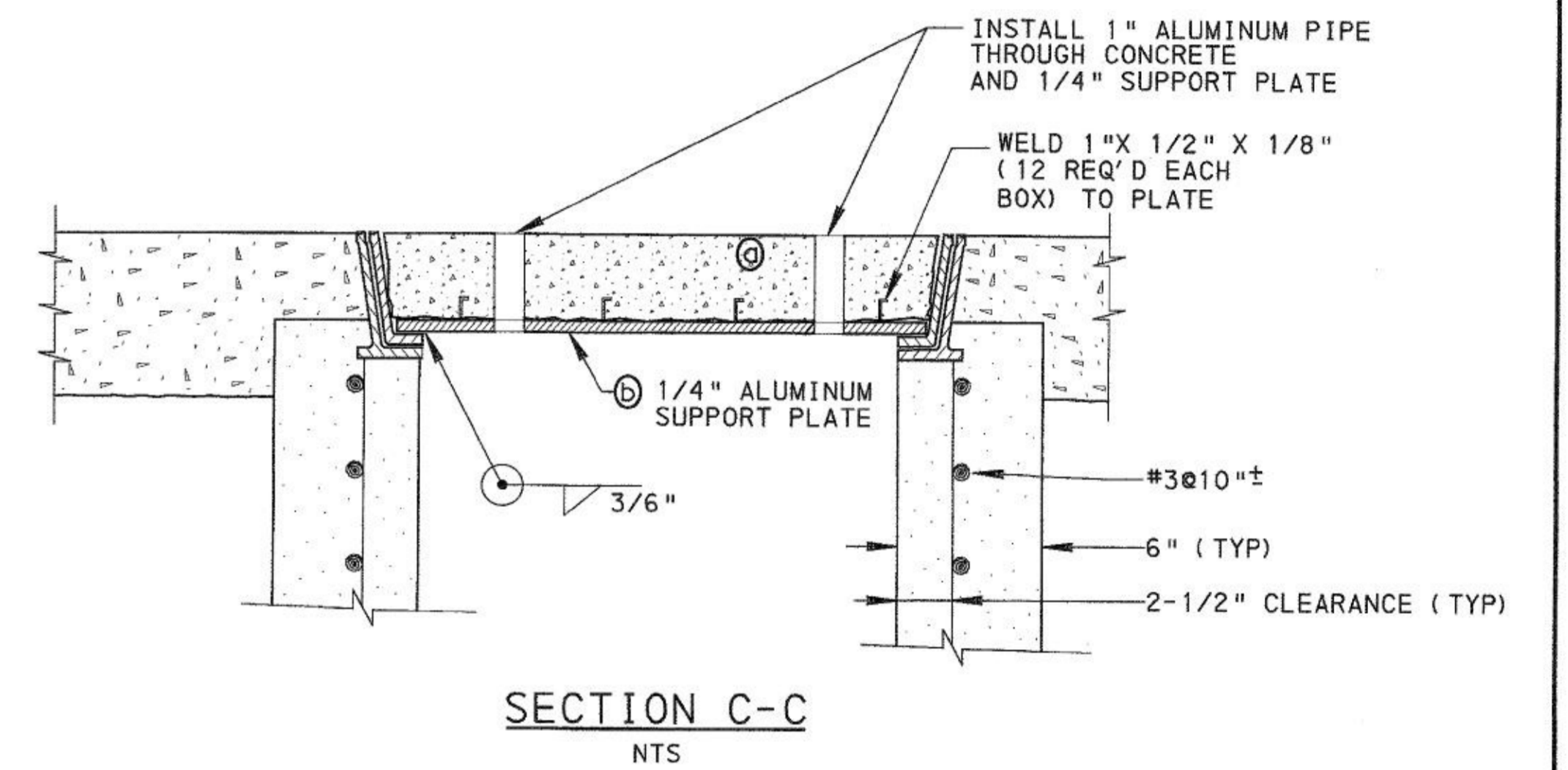
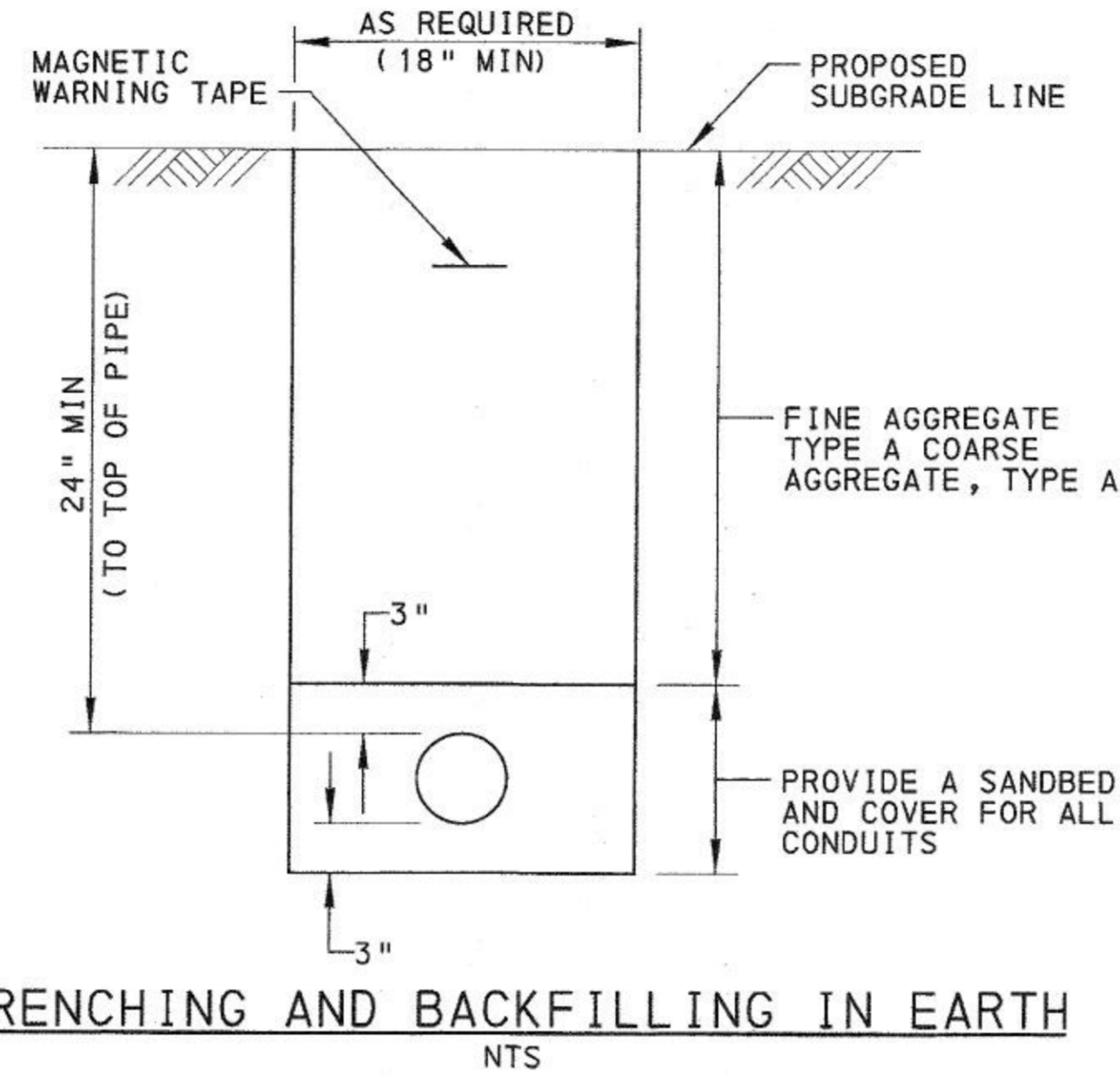
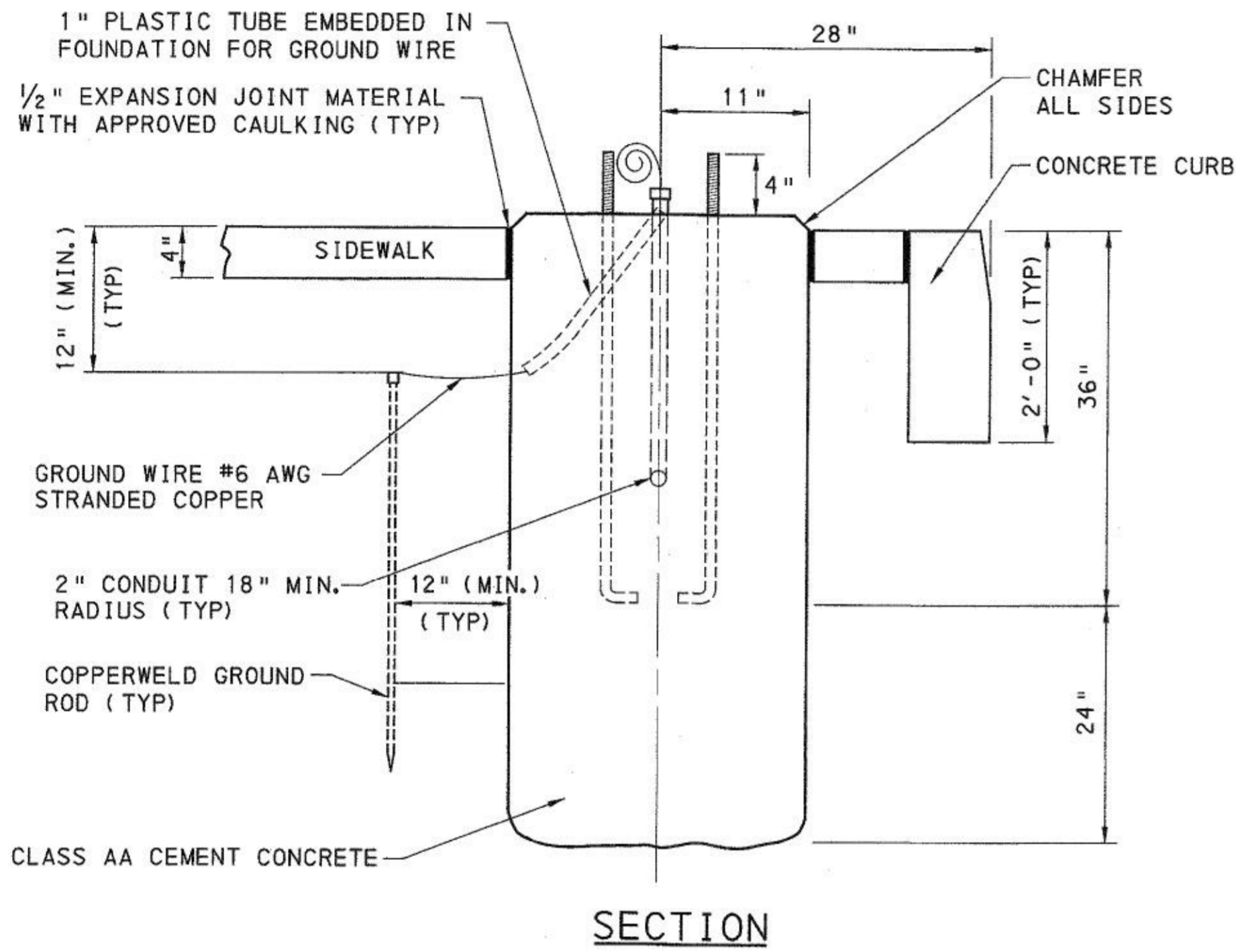
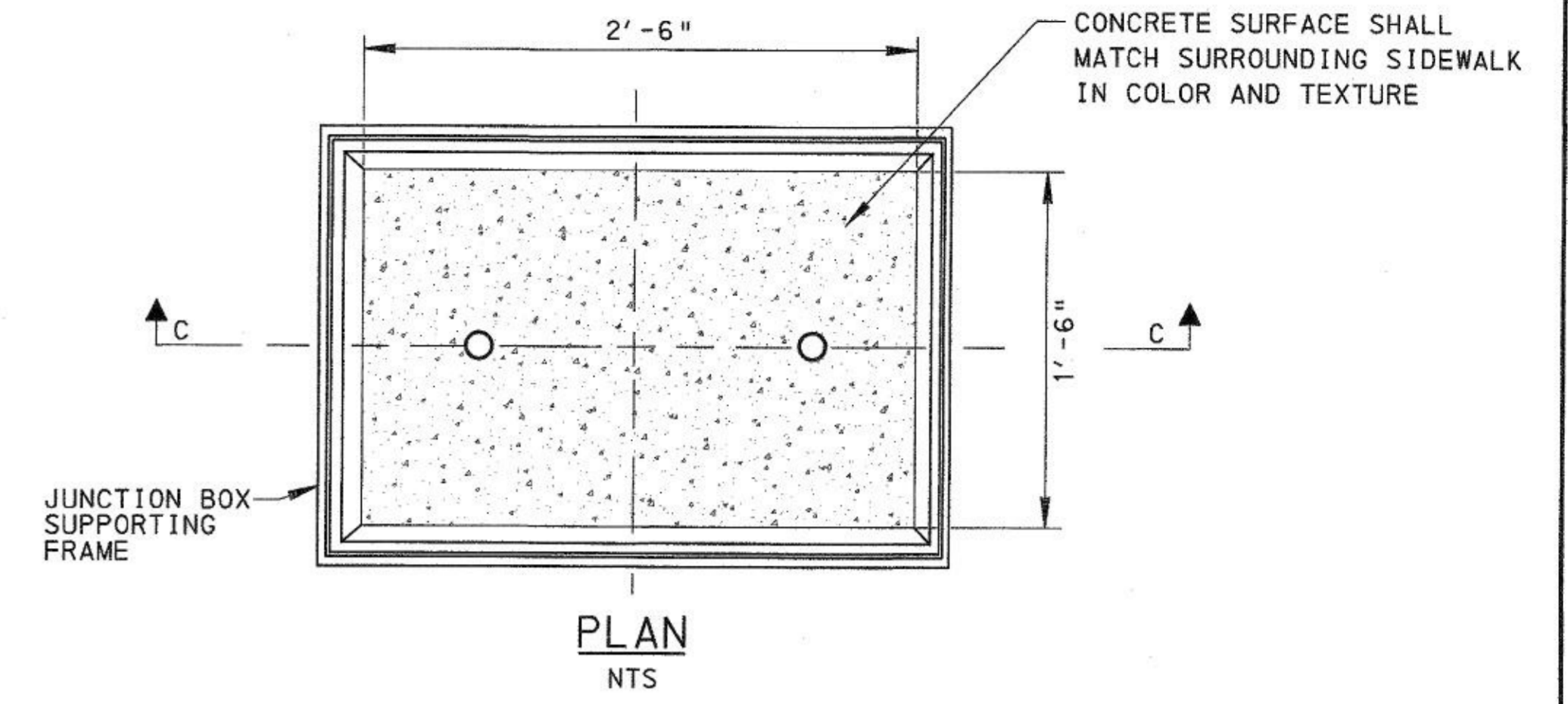
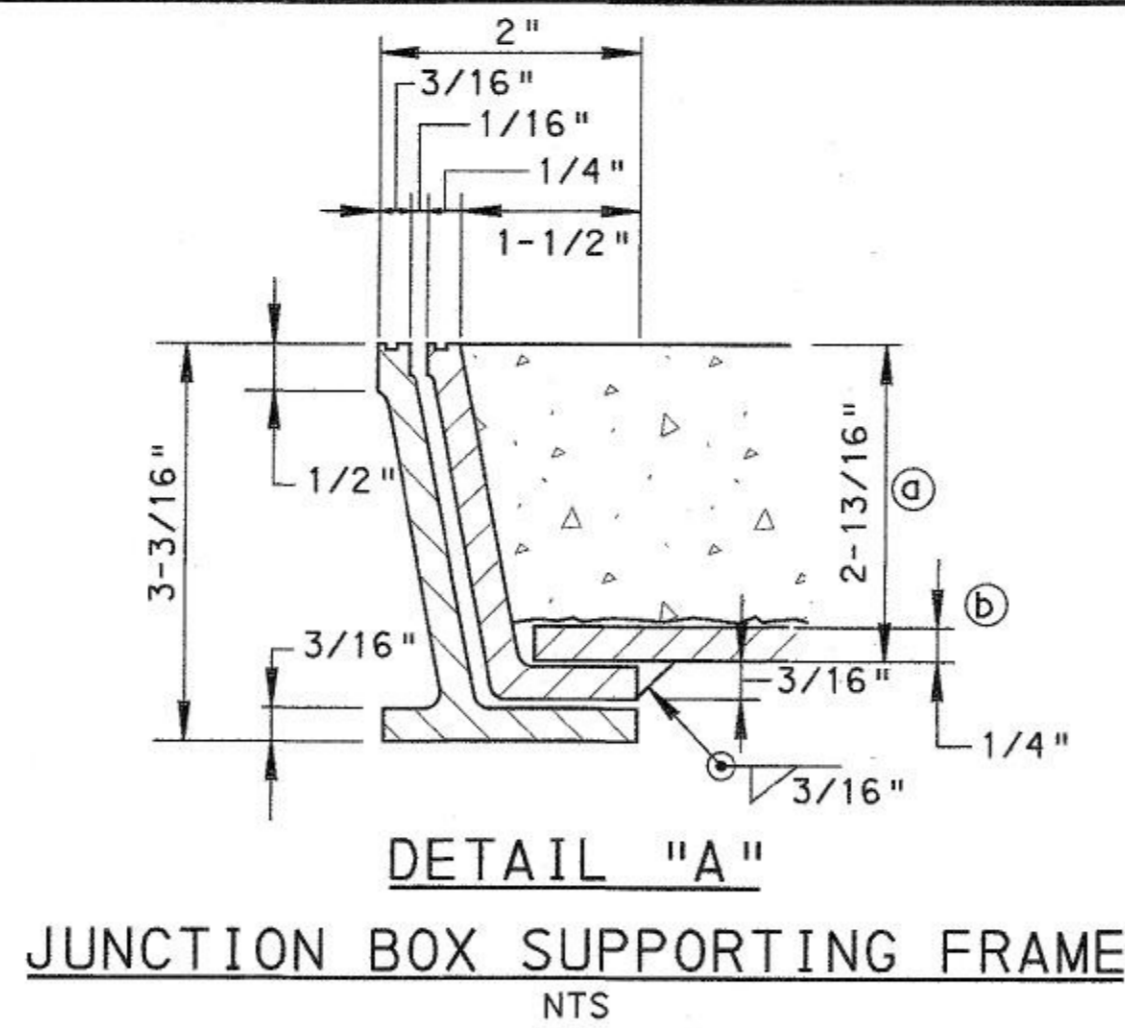
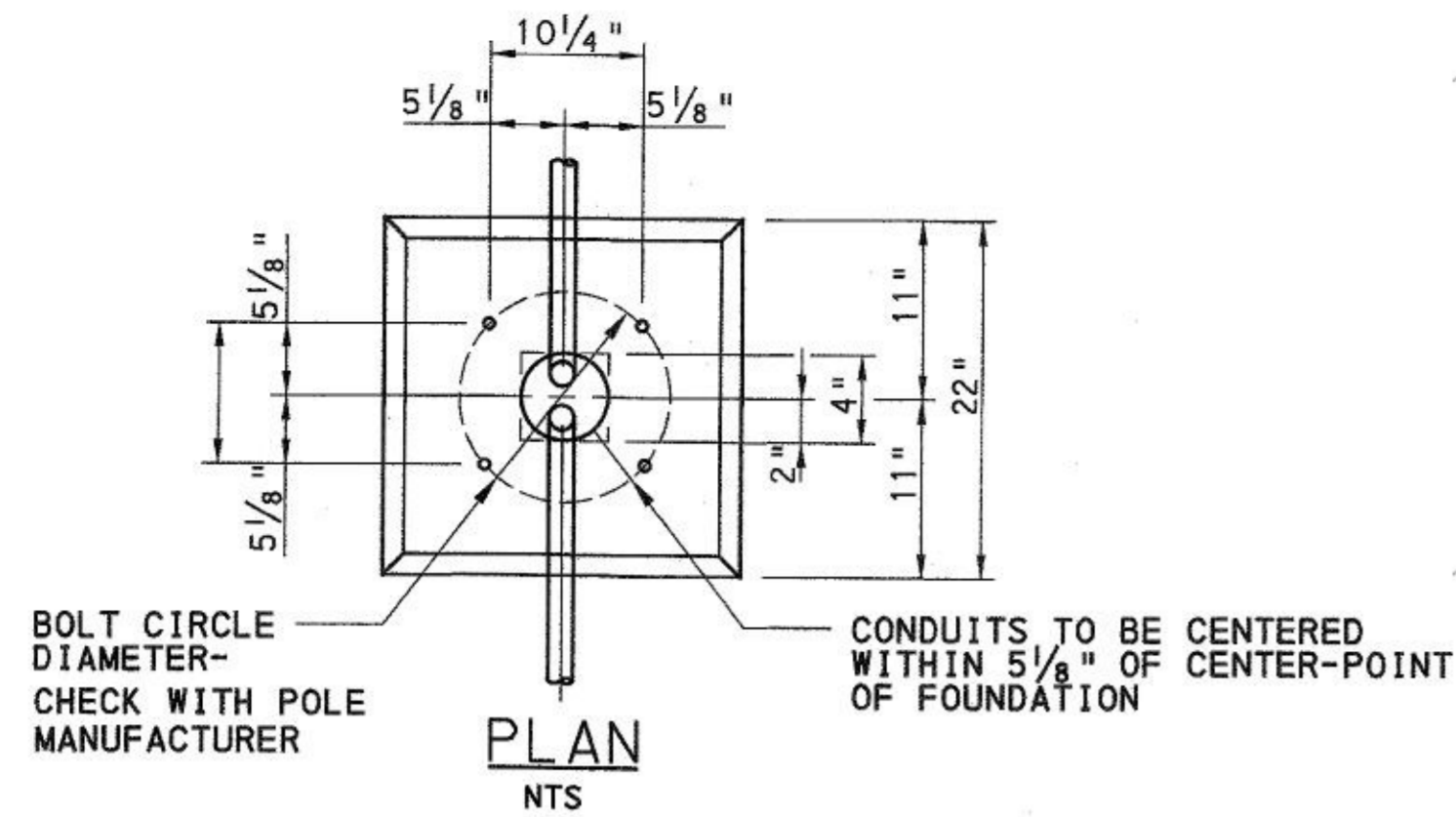
ELECTRICAL WORK PERFORMED BY OTHERS.



| FIELD DATA |      | REVISIONS |      |
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| BY         | DATE | CHARACTER | DATE |
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|            |      |           |      |

3/29/2017 \\uspp111\p002\Drawn\Projects\Transport\10\1555\60445862\Bates\_S\Tree L\W\den\mg\Cadd\Bates\_S\Tree L\Lighting\Lighting\Lighting.dgn

Record Drawings



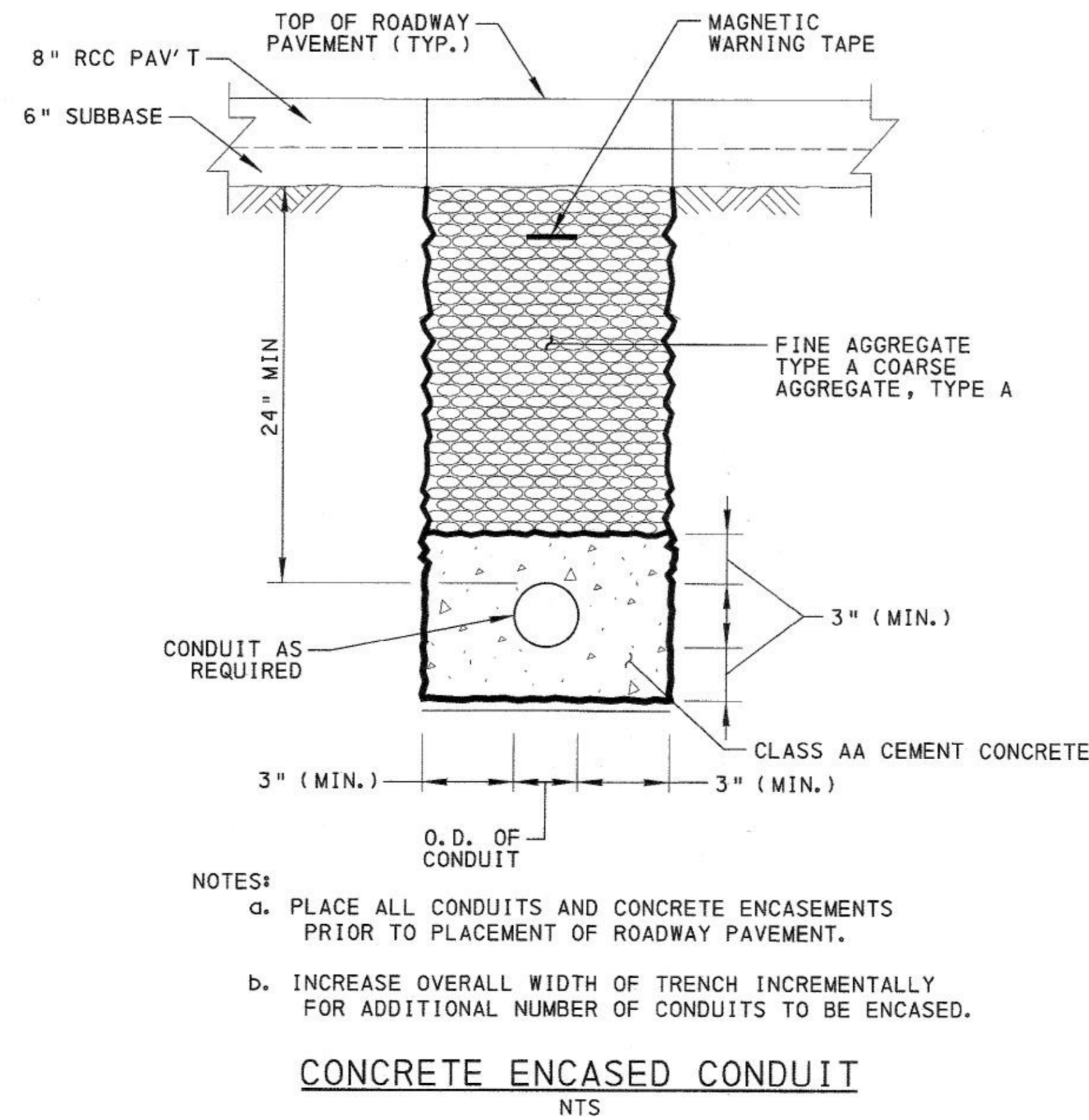
POLE FOUNDATION TYPE  
NTS

TRENCHING AND BACKFILLING IN EARTH  
NTS

CITY STANDARD  
CONCRETE JUNCTION BOX, JB-1 WITH MODIFIED COVER

| ANCHOR BOLT TYPE | GROUND ROD |       | ANCHOR BOLT |       |        |         |          |
|------------------|------------|-------|-------------|-------|--------|---------|----------|
|                  | DIA.       | LGTH. | DIA.        | LGTH. | THREAD | HOOK P  | Fy (KSI) |
| AB-2             | 5/8"       | 7'-0" | 1"          | 40"   | 8"     | 4" HOOK | 50       |

- GENERAL NOTES:
- MATERIALS FOR POLE FOUNDATIONS:
    - USE CITY OF PITTSBURGH CLASS P CONCRETE.
    - PROVIDE GRADE 60 REINFORCING STEEL, ASTM A615
    - STRUCTURAL STEEL: ASTM A36
    - ANCHOR BOLTS: SECTION 101.04
    - GALVANIZE STRUCTURAL STEEL PLATES, NUTS AND WASHERS IN ACCORDANCE WITH ASTM A153.
  - WRAP EXPOSED ENDS OF ANCHOR BOLT TO PROTECT THREADS.
  - PROVIDE HD GALVANIZED ANCHOR BOLTS (FULL LENGTH).



- NOTES:
- PLACE ALL CONDUITS AND CONCRETE ENCASEMENTS PRIOR TO PLACEMENT OF ROADWAY PAVEMENT.
  - INCREASE OVERALL WIDTH OF TRENCH INCREMENTALLY FOR ADDITIONAL NUMBER OF CONDUITS TO BE ENCASED.

CONCRETE ENCASED CONDUIT  
NTS

- Ⓐ CONCRETE, CLASS P
  - Ⓑ ALUMINUM PLATE
- NOTE: SEE DETAIL "A", THIS SHEET, FOR JUNCTION BOX SUPPORTING FRAME DIMENSIONS.

NOTE: PROVIDE AND INSTALL JUNCTION BOX WITH MODIFIED COVERS THAT MATCH THE ADJACENT SIDEWALK MATERIAL AND PATTERN AT NO ADDITIONAL PAYMENT. REFER TO CITY OF PITTSBURGH STANDARDS FOR ADDITIONAL JUNCTION BOX/COVER DIMENSIONS. THIS WORK APPLIES TO CONCRETE JUNCTION BOXES WITH MODIFIED COVER.

URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING

ELECTRICAL DETAILS

SCALE: AS SHOWN SHEET NO. 16 OF 21 ACCESSION NO. A(19)-016 DATE: 2/23/17 CASE NO. C-5-1

3/28/2017 \\uspp1111\p002\Data\Project\Transportation\1555\6045862-Borres\_S\Trace\_T\_M\den\p\Cadd\Plan\Lighting\Borres\_L\Lighting.dwg

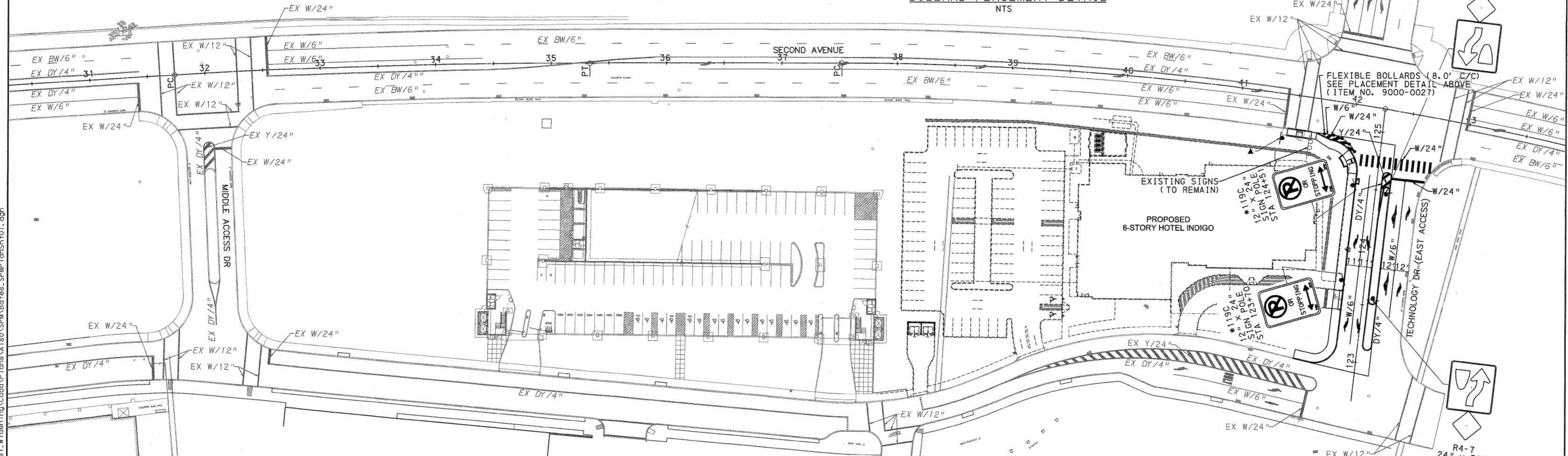
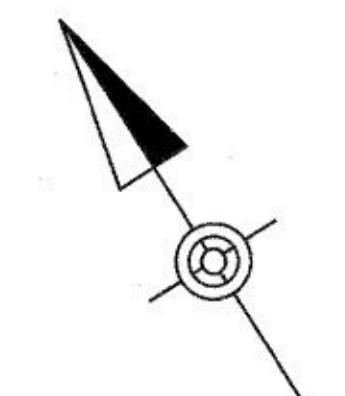
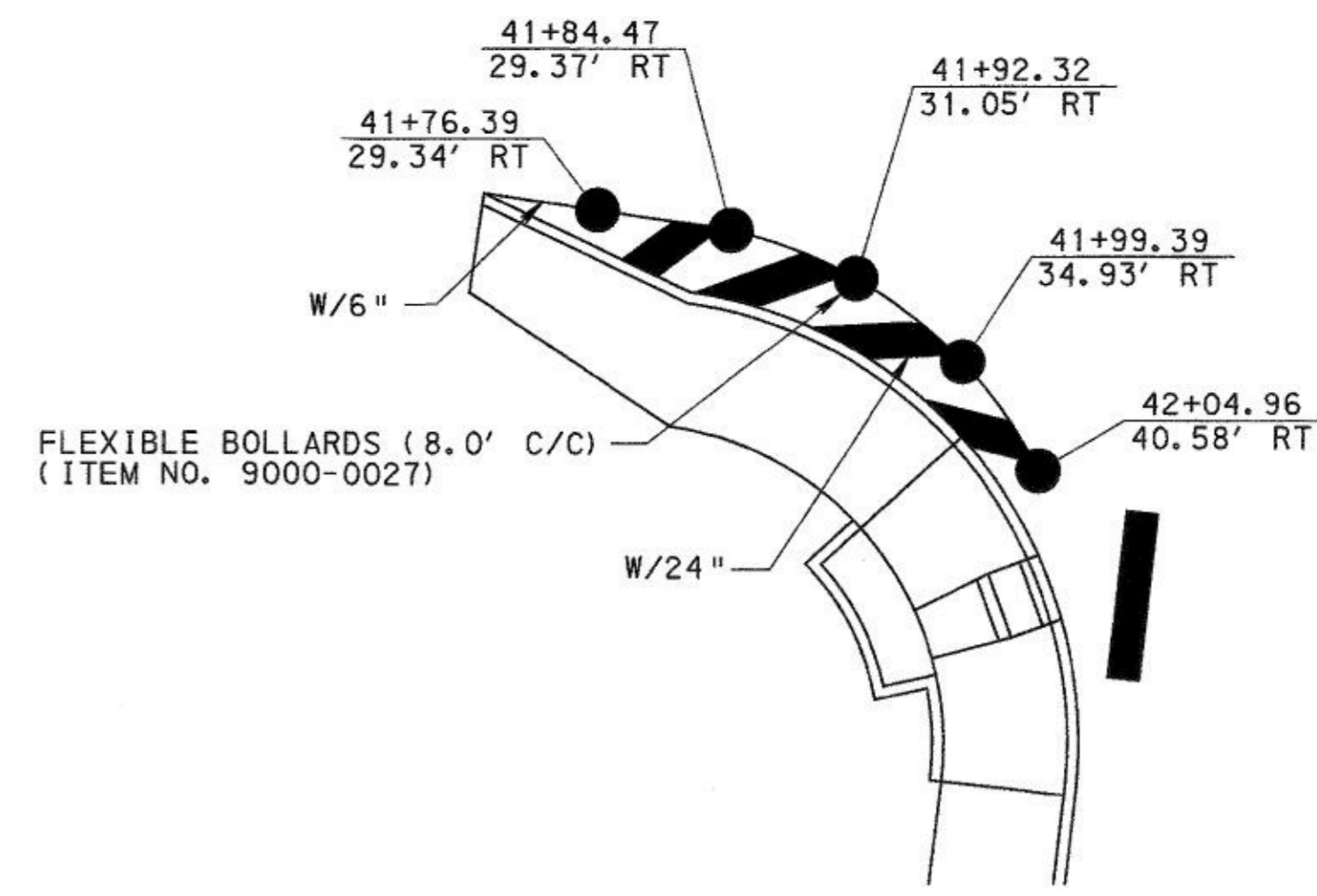
| FIELD DATA | GRAND     | SUPERVISOR | REVISIONS |      |
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| BY         |           |            | CHARACTER | DATE |
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| CALC. BOOK | PC        |            |           |      |

Record Drawings



**GENERAL NOTES**

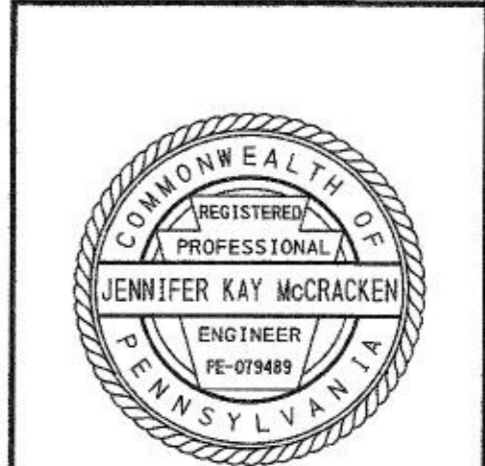
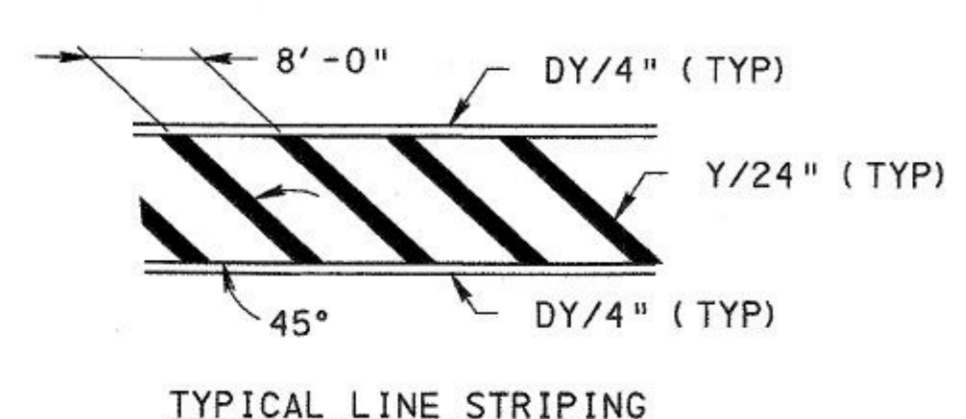
1. INSTALL SIGNS, PAVEMENT MARKINGS, AND DELINEATION IN ACCORDANCE WITH PENNDOT PUBLICATION 111 TRAFFIC CONTROL, TC-8600 AND TC-8700 SERIES, DATED JUNE 13, 2013, THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PUB. 212, OFFICIAL TRAFFIC CONTROL DEVICES, DATED MARCH 31, 2006, OR AS DIRECTED BY THE URA OR CITY REPRESENTATIVES.
2. LOCATION OF SIGN POLES AND SIGNS SHALL BE STAKED OUT AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. THE SIGNAGE PLAN SHOWING SIGN POLES AND SIGNS IS SCHEMATIC AND USED ONLY TO INDICATE LOCATIONS AND QUANTITIES.
4. FOR TRAFFIC SIGNAL SIGNAGE AND MORE DETAIL PAVEMENT MARKING SEE TRAFFIC SIGNAL PLAN.
5. FOR NAMES, ADDRESSES, AND LOCATIONS OF EXISTING FACILITIES, REFERENCE ROADWAY CONSTRUCTION PLAN.
6. PLACE ALL SIGNS ENTIRELY WITHIN THE LEGAL RIGHT-OF-WAY.
7. ANY LEGAL OR PRIVATE SIGN THAT IS TO BE REMOVED FOR CONSTRUCTION THAT IS WITHIN THE PROJECT LIMITS SHALL BE REINSTALLED AT OR NEAR ITS ORIGINAL LOCATION AT NO COST TO THE URA. IF SIGN IS DETERMINED UNNECESSARY, IT SHALL BE RETURNED TO ITS OWNER.
8. FOR FABRICATION OF ALL STANDARD SIGNS, REFER TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 236, LATEST EDITION.
9. ALL TYPE B POST MOUNTED SIGNS ARE TO BE INSTALLED USING SQUARE CHANNEL POSTS AND ANCHORS OF APPROPRIATE SIZE. ANCHORS SHALL NOT EXTEND MORE THAN 1 INCH ABOVE THE GROUND LINE.
10. DO NOT REMOVE EXISTING SIGNS UNTIL THE NEW SIGNS ARE INSTALLED.
11. CONTRACTOR SHALL CALL PA ONE CALL SYSTEM, INCAT 1-800-242-1776 PRIOR TO DIGGING FOR ALL SIGNS.
12. APPLY PAVEMENT MARKINGS AT THE WIDTH INDICATED.
13. APPLY ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



**LEGEND**

- W/6" SOLID WHITE HOT THERMOPLASTIC/WIDTH
- W/12" SOLID WHITE HOT THERMOPLASTIC/WIDTH
- W/24" SOLID WHITE HOT THERMOPLASTIC/WIDTH
- DY/4" DOUBLE YELLOW HOT THERMOPLASTIC/WIDTH
- Y/24" SOLID YELLOW HOT THERMOPLASTIC/WIDTH
- (Symbol) SOLID WHITE HOT THERMOPLASTIC "LEFT STRAIGHT ARROW"
- (Symbol) SOLID WHITE HOT THERMOPLASTIC "RIGHT ARROW"
- (Symbol) SOLID WHITE HOT THERMOPLASTIC "LEFT ARROW"
- (Symbol) SOLID WHITE HOT THERMOPLASTIC "ONLY"
- (Symbol) PROPOSED SIGN POST
- (Symbol) EXISTING SIGN POST (TO REMAIN)
- (Symbol) DOUBLE YELLOW LANE LINE
- (Symbol) FLEXIBLE BOLLARD

NOTE:  
 \* CITY OF PITTSBURGH PARKING STANDARD SIGN WITH BRACKET.  
 ▲ - SEE TRAFFIC SIGNAL PLAN FOR SIGN DESCRIPTION.



URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

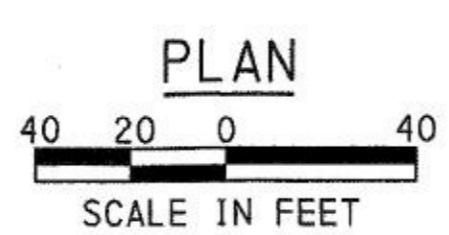
PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT NO. 14  
 TECHNOLOGY DRIVE (EAST ACCESS)  
 IMPROVEMENTS

CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF TRANSPORTATION AND ENGINEERING

**PAVEMENT MARKING & SIGNAGE PLAN**

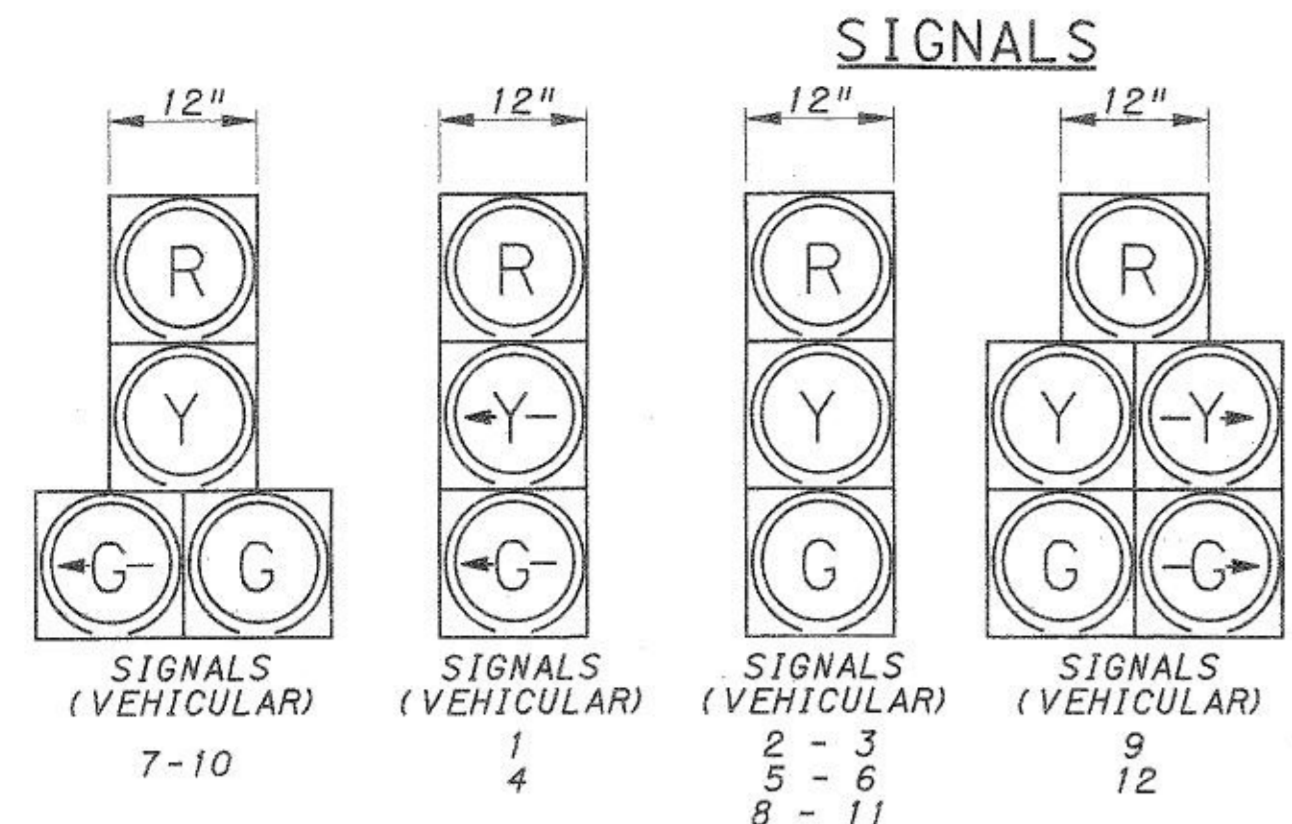
SCALE: AS SHOWN SHEET NO. 17 OF 21 ACCESION NO. A(19)-016  
 DATE: 2/23/17 CASE NO. C-5-1

Record Drawings



| FIELD DATA | DATE      | BY          | REVISIONS      |
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| CHECKED    | INSPECT'D | COO. CONST. |                |

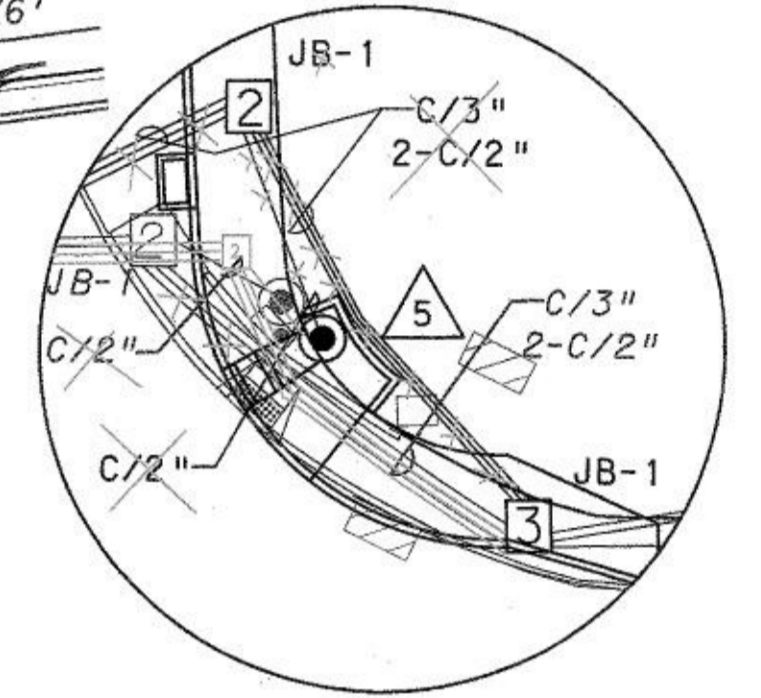
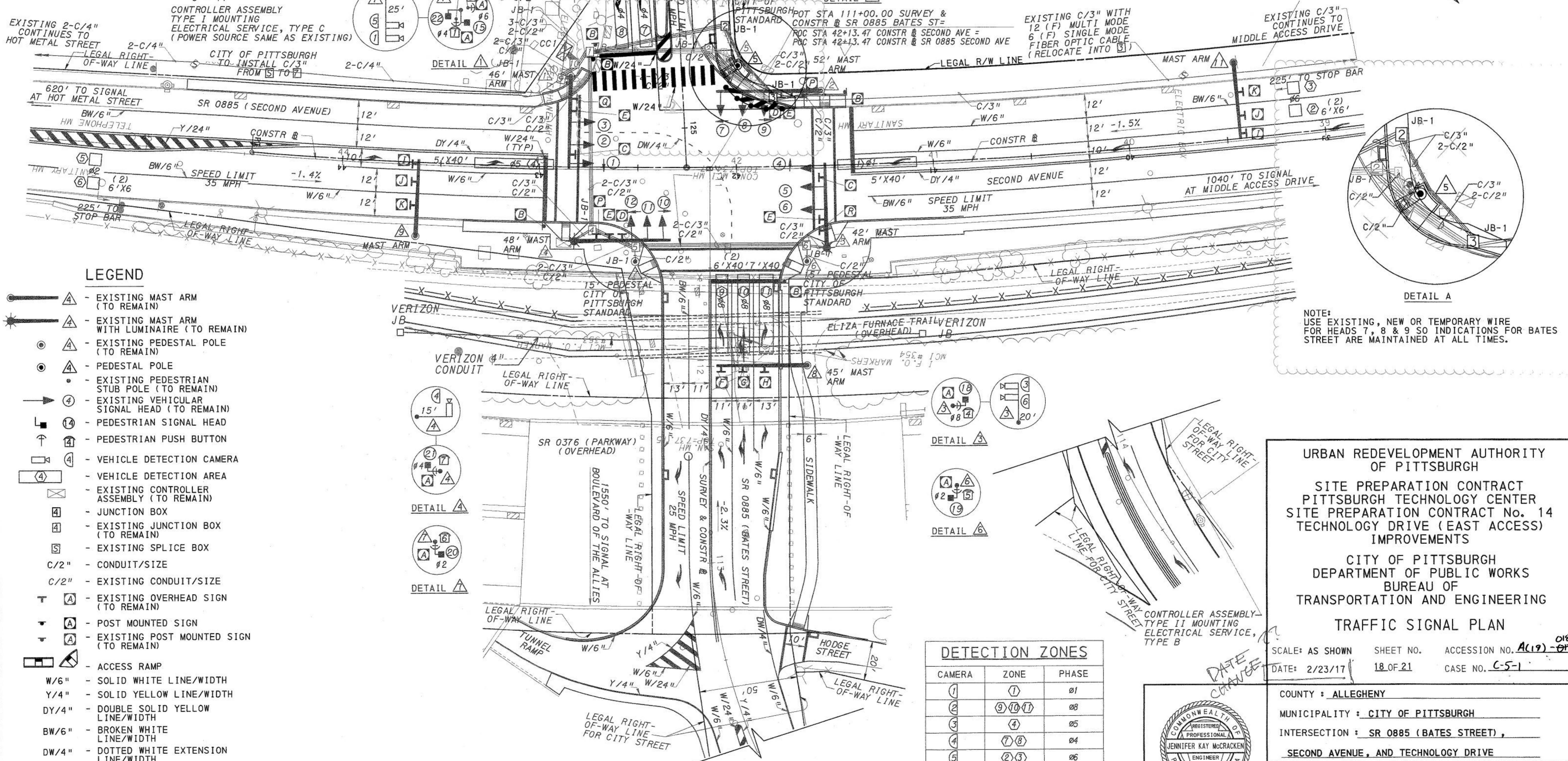
3/29/2017 \\ussp11r\p002\Barr\Projects\Transportation\1555\60445862-Barrs\_S\Drawings\Cadd\Plans\1555\60445862-SPMP\anshr101.dgn



- SIGNAL NOTES:**
- 1) ALL SIGNAL HEADS EQUIPPED WITH TUNNEL VISORS.
  - 2) INTERSECTION INCORPORATED INTO CITY'S C.T.R.T.C.S.
  - 3) ALL SIGNALS RED, YELLOW, GREEN AND ARROW (LED) MODULES, PORTLAND ORANGE FULL "PEDESTRIAN HAND" AND "COUNTDOWN", AND WHITE FULL "WALKING PERSON", SYMBOLS (LED) MODULES INCANDESCENT.
  - 4) ALL SIGNALS - ALUMINUM HOUSING.
  - 5) CONTROLLER CABINET BASE MOUNTED WITH 12" RISER.
  - 6) MOUNT CAMERAS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
  - 7) FINAL SIGNAL HEAD PLACEMENT WILL BE DETERMINED BY A REPRESENTATIVE OF THE DISTRICT TRAFFIC UNIT PRIOR TO SIGNAL BEING TURNED ON.
  - 8) THERE SHALL BE NO SIGNAL WIRE SPLICING.

- ACCESSIBLE PEDESTRIAN SIGNAL NOTES:**
- 1) ALL PUSH BUTTONS EQUIPPED WITH LOCATOR TONES.
  - 2) ALL WALK INTERVALS TO HAVE VERBAL MESSAGE DETAILING WALK DIRECTION.
  - 3) VERBAL MESSAGE TO BE PLAYED DURING WALK INTERVAL WHEN PUSH BUTTON IS PRESSED.
  - 4) ALL PUSH BUTTONS TO BE LOCATED AT 42" ABOVE GROUND.
  - 5) ALL PUSH BUTTONS TO BE EQUIPPED WITH VIBROTACTILE ARROW.
  - 6) VIBROTACTILE ARROWS TO VIBRATE DURING WALK INTERVAL.

**PAVEMENT MARKING NOTES:**  
STOP BARS WHITE 24 INCH LINES.  
CROSSWALK IS 10' WIDE WITH 2' KEYS.

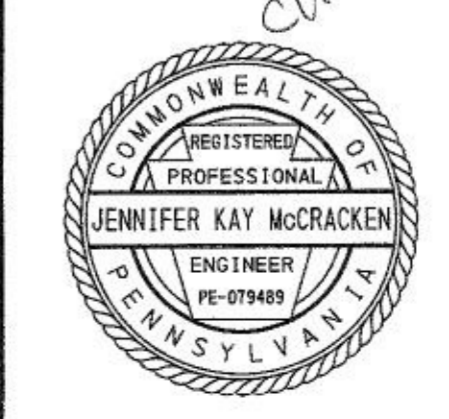


**NOTE:**  
USE EXISTING, NEW OR TEMPORARY WIRE FOR HEADS 7, 8 & 9 SO INDICATIONS FOR BATES STREET ARE MAINTAINED AT ALL TIMES.

- LEGEND**
- ▲ - EXISTING MAST ARM (TO REMAIN)
  - ▲ - EXISTING MAST ARM WITH LUMINAIRE (TO REMAIN)
  - - EXISTING PEDESTAL POLE (TO REMAIN)
  - - PEDESTAL POLE
  - - EXISTING PEDESTRIAN STUB POLE (TO REMAIN)
  - ➔ - EXISTING VEHICULAR SIGNAL HEAD (TO REMAIN)
  - ⊕ - PEDESTRIAN SIGNAL HEAD
  - ⊕ - PEDESTRIAN PUSH BUTTON
  - ⊕ - VEHICLE DETECTION CAMERA
  - ⊕ - VEHICLE DETECTION AREA
  - ⊕ - EXISTING CONTROLLER ASSEMBLY (TO REMAIN)
  - ⊕ - JUNCTION BOX
  - ⊕ - EXISTING JUNCTION BOX (TO REMAIN)
  - ⊕ - EXISTING SPLICE BOX
  - C/2" - CONDUIT/SIZE
  - C/2" - EXISTING CONDUIT/SIZE
  - ⊕ - EXISTING OVERHEAD SIGN (TO REMAIN)
  - ⊕ - POST MOUNTED SIGN
  - ⊕ - EXISTING POST MOUNTED SIGN (TO REMAIN)
  - ⊕ - ACCESS RAMP
  - W/6" - SOLID WHITE LINE/WIDTH
  - Y/4" - SOLID YELLOW LINE/WIDTH
  - DY/4" - DOUBLE SOLID YELLOW LINE/WIDTH
  - BW/6" - BROKEN WHITE LINE/WIDTH
  - DW/4" - DOTTED WHITE EXTENSION LINE/WIDTH

**DETECTION ZONES**

| CAMERA | ZONE      | PHASE |
|--------|-----------|-------|
| 1      | 1         | 01    |
| 2      | 9, 10, 11 | 08    |
| 3      | 4         | 05    |
| 4      | 7, 8      | 04    |
| 5      | 2, 3      | 06    |
| 6      | 5, 6      | 02    |



URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

SITE PREPARATION CONTRACT  
PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT No. 14  
TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING

**TRAFFIC SIGNAL PLAN**

SCALE: AS SHOWN SHEET NO. 18 OF 21 ACCESSION NO. A(19)-017  
DATE: 2/23/17 CASE NO. C-5-1

COUNTY: ALLEGHENY  
MUNICIPALITY: CITY OF PITTSBURGH  
INTERSECTION: SR 0885 (BATES STREET), SECOND AVENUE, AND TECHNOLOGY DRIVE

SCALE: 0 25 50 FEET

Record Drawings

DRAWN BY --  
CHECKED BY --

SIGNS

| PLAN SYMBOL | NOMENCLATURE | DESCRIPTION  | SIZE    | QUANT |
|-------------|--------------|--|---------|-------|
| A           | *R10-3E      | EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER | 9"x14"  | 8     |
| B           | R10-6AL      | STOP HERE ON RED   | 24"x30" | 4     |
| C           | R10-10L      | LEFT TURN SIGNAL   | 30"x36" | 2     |
| D           | R10-10R      | RIGHT TURN SIGNAL  | 30"x36" | 2     |
| E           | R10-11       | NO TURN ON RED   | 30"x36" | 4     |
| F           | SS-1         | LEFT TURN (NO TRUCKS)  | 36"x48" | 1     |
| G           | R3-6LS       | OPTIONAL LEFT TURN   | 30"x36" | 1     |
| H           | R3-5R        | RIGHT TURN   | 30"x36" | 1     |
| I           | R3-5L        | LEFT TURN  | 30"x36" | 2     |
| J           | R3-5S        | STRAIGHT THOUGH  | 30"x36" | 2     |
| K           | R3-6SR       | OPTIONAL RIGHT TURN  | 30"x36" | 2     |
| L           | R3-5R        | RIGHT TURN   | 30"x36" | 1     |
| M           | R3-6LS       | OPTIONAL LEFT TURN   | 30"x36" | 1     |
| N           | W3-3         | SIGNAL AHEAD (INTERNALLY ILLUMINATED)                        | 30"x36" | 1     |
| O           | R3-8A LS-R   | LANE USE CONTROL   | 30"x30" | 1     |
| P           | SS-2         | Second Ave   | 72"x24" | 2     |
| Q           | SS-3         | Bates St Technology Dr                                       | 96"x36" | 1     |
| R           | SS-4         | Technology Dr Bates St                                       | 96"x36" | 1     |

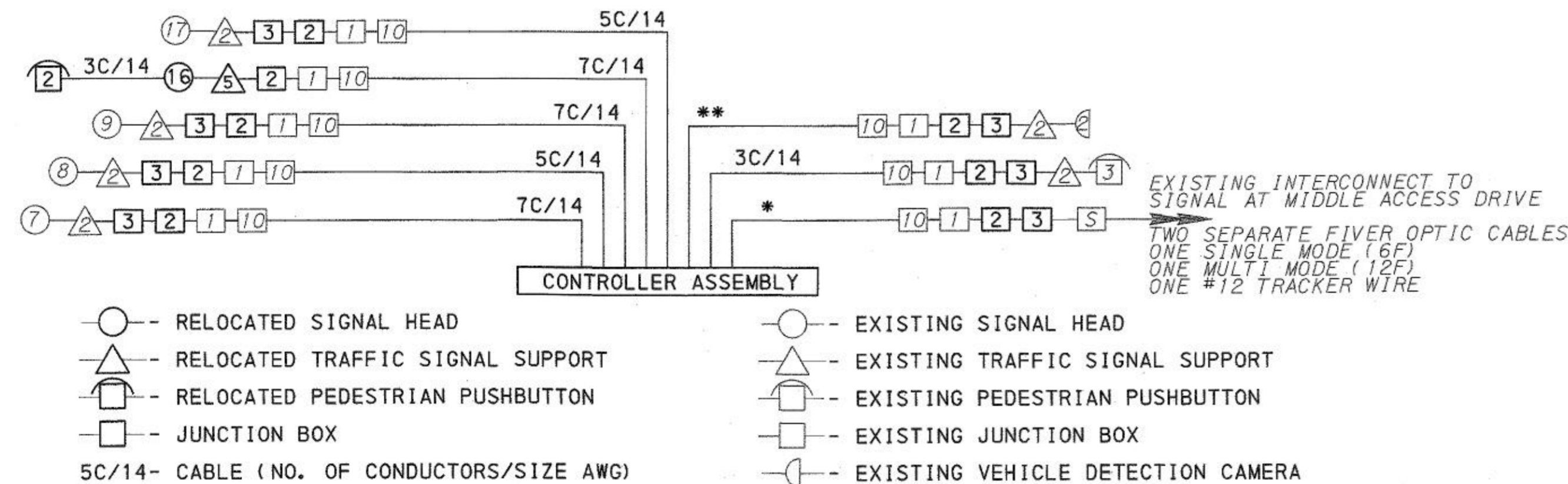
\* ARROW TO POINT IN THE DIRECTION OF CROSSING.  
 \*\* REMOVE AND RELOCATE TYPE B AT STA 42+73.

TRENCH, CONDUIT, JUNCTION BOX, ELECTRICAL ITEMS

| DESCRIPTION           | 9000 | 9000 | 4954 | 4954 | 0954 | 0954 | 0954 | 0954 | 0954 | 0954 |  |  |  |  |  |  |  |  |  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| ITEM NUMBER           | 0016 | 0027 | 0012 | 0013 | 0151 | 0153 | 0201 | 0202 | 0203 |      |  |  |  |  |  |  |  |  |  |
| UNIT                  | EA   | EA   | LF   | LF   | LF   | LF   | LF   | LF   | LF   |      |  |  |  |  |  |  |  |  |  |
| LOCATION              |      |      |      |      |      |      |      |      |      |      |  |  |  |  |  |  |  |  |  |
| 7 TO 2                | 1    | 1    | 140  | 70   | 35   | 35   |      |      |      |      |  |  |  |  |  |  |  |  |  |
| 2 TO 3                | 1    |      | 84   | 42   | 42   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |
| 2 TO A                |      |      | 22   |      | 22   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |
| COMPLETE INTERSECTION |      |      |      |      |      |      | 240  | 510  | 720  |      |  |  |  |  |  |  |  |  |  |
| TOTAL                 | 2    | 1    | 246  | 112  | 99   | 35   | 240  | 510  | 720  |      |  |  |  |  |  |  |  |  |  |

MISCELLANEOUS CONTROLLER AND SIGNAL ITEMS

| ITEM NO   | QUANTITY | UNIT | DESCRIPTION                | LOCATION | REMARKS                   |
|-----------|----------|------|----------------------------|----------|---------------------------|
| 9000-0017 | 1        | EA   | RELOCATE 15' PEDESTAL POLE | ▲        | STA 41+99<br>OFFSET 52 RT |



\* - THE CITY OF PITTSBURGH WILL BE RESPONSIBLE FOR PROVIDING ALL INFORMATION AND MATERIALS REGARDING THE INTERCONNECTION SYSTEM.

\*\* - MANUFACTURER RECOMMENDED CABLE

NOTE: IF ENOUGH SLACK EXISTS IN THE WIRE BETWEEN THE CONTROLLER AND THE SIGNAL HEADS / DETECTORS, THEN EXISTING CABLES CAN BE RESUSED. IF SUFFICIENT SLACK DOES NOT EXIST THEN REPLACE THE ENTIRE CABLE. CABLE MUST BE UNSPLICED.

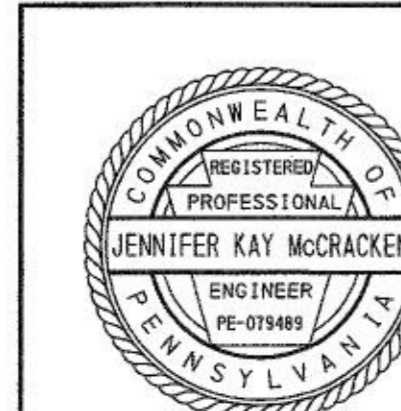
SIGNS

| SYMBOL | SERIES  | SIZE    | AREA EACH (SQ FT) | DESCRIPTION  | QUANTITY | 0941-0001 RESET POSITION MOUNTED SIGNS, TYPE B |
|--------|---------|---------|-------------------|--|----------|--|
| A      | R10-3EL | 9"x15"  | 1.0               | EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER | 1        | ▲  |
| B      | R10-6AL | 24"x30" | 5.0               | STOP HERE ON RED   | 1        | 1  |
|        |         |         |                   |  | TOTAL    | 1  |

▲ INCIDENTAL TO ITEM 9000-0017

URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 SITE PREPARATION CONTRACT  
 PITTSBURGH TECHNOLOGY CENTER  
 SITE PREPARATION CONTRACT No. 14  
 TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS  
 CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF TRANSPORTATION AND ENGINEERING  
 TRAFFIC SIGNAL PLAN

SCALE: AS SHOWN SHEET NO. ACCESSION NO. A(19)-219  
 DATE: 2/23/17 19 OF 21 CASE NO. C-5-1



COUNTY : ALLEGHENY  
 MUNICIPALITY : CITY OF PITTSBURGH  
 INTERSECTION : SR 0885 (BATES STREET),  
 SECOND AVENUE, AND TECHNOLOGY DRIVE

SCALE : N/A

Record Drawings

| FIELD DATA | DRAWN     | SUPERVISOR | REVISIONS |  |
|------------|-----------|------------|-----------|--|
| BY         | DATE      | CHARACTER  | DATE      |  |
| CREATED    | INSPECTED | CHG. CORR. |           |  |
| CHG. CORR. |           |            |           |  |

**GENERAL NOTES FOR TRAFFIC CONTROL**

1. THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
2. FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND,
  - a. THE SPECIAL PROVISIONS OF THE CONTRACT
  - b. PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES (JUNE 2014)
  - c. PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL GUIDELINES
  - d. PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15) (CURRENT REVISION)
  - e. PENNDOT PUBLICATION 408/2016, SPECIFICATIONS
  - f. PENNDOT PUBLICATION 111, TRAFFIC CONTROL PAVEMENT MARKINGS AND SIGNING STANDARDS. TC-8600 AND TC-8700 SERIES.
  - g. FEDERAL HIGHWAY ADMINISTRATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2009.
  - h. PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
3. IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE SIGNS AND DEVICES. FOR TYPE "B" MOUNTED SIGNS REMOVE POSTS COMPLETELY.
4. THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY AS SPECIFIED IN SECTION 901.2(a) OF PENNDOT PUBLICATION 408.
5. SIGN LOCATIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
6. ALL SIGNS AND DEVICES SHALL BE NEW AT THE BEGINNING OF THE PROJECT AND MAINTAINED IN NEW CONDITION AND TO URA'S SATISFACTION THROUGHOUT THE DURATION OF THE PROJECT.
7. THESE PLANS HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH STANDARDS PRESCRIBED IN CHAPTER 212 OF THE 67 PA. CODE AS CURRENTLY AMENDED.
8. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AND INSPECTED DAILY BY THE ENGINEER BEFORE ALL WORK BEGINS
9. ALL SIGNS NOT IN USE SHALL BE EITHER COVERED OR REMOVED.
10. ALL TRAFFIC CONTROL SIGNS AND DEVICES TO BE CONSTRUCTED OF THE SAME TYPE OF PENNDOT APPROVED FLUORESCENT ORANGE RETROREFLECTIVE MATERIAL.
11. ALL TRAFFIC CONTROL SIGNS AND DEVICES MUST COMPLY WITH THE MOST CURRENT NCHRP 350 CRITERIA.
12. THE TRAFFIC CONTROL DEVICES SHOWN DO NOT NECESSARILY DEPICT THE ACTUAL NUMBER OF DEVICES REQUIRED.
13. ANY SPECIAL SIGNS ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH TC-8700C, DATED JUNE 13, 2013. THE ORANGE BACKGROUND SHALL BE CONSTRUCTED OF PENNDOT APPROVED FLUORESCENT ORANGE RETROREFLECTIVE MATERIAL. ALL FABRICATED SIGNS TO HAVE AN APPROPRIATE BLACK BORDER, CORNER RADIUS AND ORANGE MARGIN.
14. ATTACH TYPE C LIGHTS TO CHANNELIZING DEVICES USED TO PROTECT OPEN EXCAVATIONS ADJACENT TO THE ROADWAY.
15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO ALL BUSINESSES AND DWELLINGS DURING ALL PHASES OF CONSTRUCTION.
16. PROVIDE ADEQUATE NUMBER OF TYPE III BARRICADES AT ROAD CLOSURE LOCATIONS TO COMPLETELY CLOSE THE ROADWAY.

**GENERAL NOTES FOR TRAFFIC CONTROL (CONT)**

17. PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G. POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G. LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
18. SUBMIT PROPOSED REVISIONS OF THE TRAFFIC CONTROL PLAN TO THE URA FOR APPROVAL 2 WEEKS PRIOR TO BEGINNING ANY WORK.
19. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PITTSBURGH PRIOR TO INSTALLING ANY TRAFFIC CONTROL FOR THE PROJECT. NO PERMITS WILL BE ISSUED UNTIL THE TRAFFIC CONTROL PLANS HAVE BEEN APPROVED BY THE CITY OF PITTSBURGH TRAFFIC DIVISION.
20. THE CONTRACTOR MUST OBTAIN A TRAFFIC OBSTRUCTION PERMIT PRIOR TO THE RESTRICTING OR CLOSING OF A TRAFFIC LANE.
21. POST TEMPORARY PARKING RESTRICTIONS AS NEEDED IN THE WORK ZONE AT LEAST 24 HOURS IN ADVANCE OF STARTING WORK.
22. THE CONTRACTOR SHALL PROVIDE ALL FLAGGERS AT NO ADDITIONAL PAYMENT TO THE URA.
23. COORDINATE WITH PROPERTY AND PARKING LOT OWNERS TO MINIMIZE DISRUPTION TO ACCESS TO PRIVATE PARKING LOTS, GARBAGE COLLECTION AND TO OTHER NECESSARY VEHICLE DELIVERY / PICKUP SERVICES.

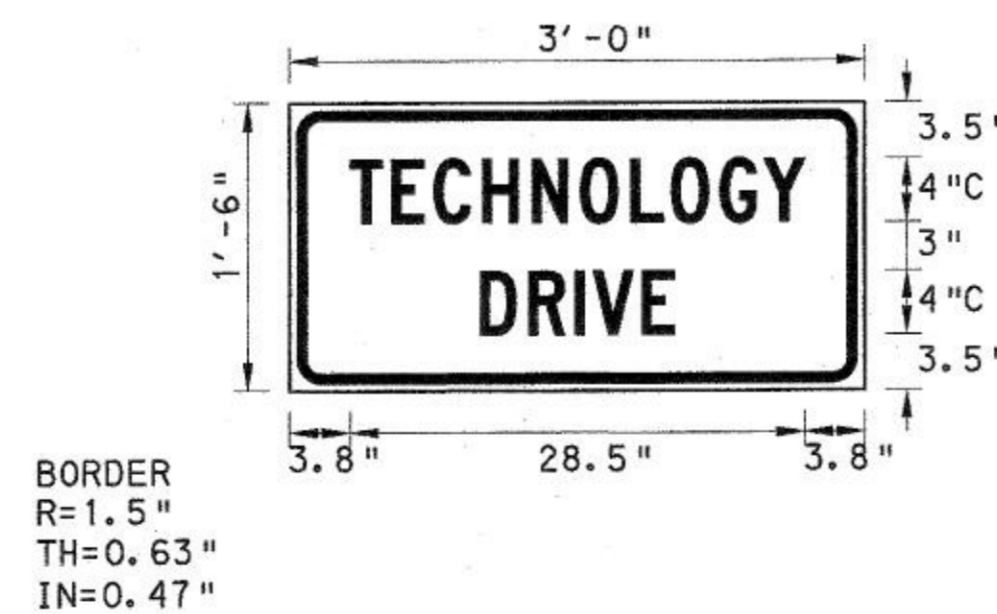
**SEQUENCE OF CONSTRUCTION**

PLACE DETOUR SIGNING IN ACCORDANCE WITH THE PLAN. CLOSE THE INGRESS MOVEMENT OF TECHNOLOGY DRIVE BETWEEN SECOND AVENUE AND TECHNOLOGY DRIVE AND THE LEFT TURN LANE ONTO TECHNOLOGY DRIVE FROM SECOND AVENUE. PROPERLY COVER THE LEFT TURN LANE VEHICULAR SIGNAL HEAD DURING THE CLOSURE. CONSTRUCT NEW ROADWAY, CURB RAMPS, PEDESTRIAN SIGNAL HEAD RELOCATION AND SIGNING.

FOR TIE IN WORK AT SECOND AVENUE AND TRENCHING ACROSS TECHNOLOGY DRIVE, UTILIZE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH PENNDOT PUBLICATION 213 PATA 124.

**TRAFFIC CONTROL DEVICE TABULATION**  
(FOR INFORMATION ONLY) INCLUDED IN ITEM NO. 4901-0001

| ITEM NO. | DEVICE SIZE OR UNIT | DESCRIPTION                                 | DETOUR | PATA 124 | TOTAL OR NUMBER OF DEVICES |
|----------|---------------------|---|--------|----------|----------------------------|
| FAB-1    | 36" x 18"           | TECHNOLOGY DRIVE                            | 12     |          | 12                         |
| M4-8A    | 24" x 18"           | END DETOUR                                  | 1      |          | 1                          |
| M4-9A    | 30" x 24"           | PEDESTRIAN / BICYCLE DETOUR (STRAIGHT)      | 1      |          | 1                          |
| M4-9L    | 30" x 24"           | DETOUR LEFT                                 | 1      |          | 1                          |
| M4-9R    | 30" x 24"           | DETOUR RIGHT                                | 2      |          | 2                          |
| M4-9S    | 30" x 24"           | DETOUR STRAIGHT                             | 1      |          | 1                          |
| M4-9SR   | 30" x 24"           | DETOUR ADVANCE RIGHT                        | 2      |          | 2                          |
| M4-9SL   | 30" x 24"           | DETOUR ADVANCE LEFT                         | 1      |          | 1                          |
| M4-10R   | 48" x 18"           | DETOUR RIGHT ARROW                          | 2      |          | 2                          |
| R9-10    | 24" x 12"           | SIDEWALK CLOSED USE OTHER SIDE              | 1      |          | 1                          |
| R9-11a   | 24" x 12"           | SIDEWALK CLOSED CROSS HERE (LEFT)           | 1      |          | 1                          |
| R9-11d   | 24" x 12"           | SIDEWALK CLOSED CROSS HERE (RIGHT)          | 1      |          | 1                          |
| R11-2    | 48" x 30"           | ROAD CLOSED                                 | 4      |          | 4                          |
| W4-2L    | 36" x 36"           | PAVEMENT WIDTH TRANSITION - LEFT LANE ENDS  |        | 1        | 1                          |
| W4-2R    | 36" x 36"           | PAVEMENT WIDTH TRANSITION - RIGHT LANE ENDS |        | 1        | 1                          |
| W20-1    | 36" x 36"           | ROAD WORK                                   | 2      | 2        | 4                          |
| W20-2    | 36" x 36"           | DETOUR                                      | 3      |          | 3                          |
| W20-3    | 36" x 36"           | ROAD CLOSED                                 | 1      |          | 1                          |
| W20-5L   | 36" x 36"           | LEFT LANE CLOSED                            |        | 1        | 1                          |
| W20-5R   | 36" x 36"           | RIGHT LANE CLOSED                           |        | 1        | 1                          |
| W30-1-6  | 20" x 6"            | AHEAD                                       | 6      | 3        | 9                          |
| EACH     |                     | ARROW PANEL                                 |        | 1        | 1                          |
| EACH     |                     | CHANNELIZING DEVICES                        | 26     | 25       | 51                         |
| EACH     |                     | TEMPORARY POST MOUNTED SIGNS                | 18     | 6        | 22                         |
| EACH     |                     | TYPE III BARRICADES                         | 4      |          | 4                          |
| EACH     |                     | TYPE B LIGHTS                               | 14     | 2        | 16                         |
| EACH     |                     | TYPE C LIGHTS                               | 10     |          | 10                         |



|               |  |
|---------------|--|
| SIGN NUMBER   | FAB-1                                  |
| WIDTH x HGT.  | 3'-0" x 1'-6"                          |
| BORDER WIDTH  | 0.63"                                  |
| CORNER RADIUS | 1.5"                                   |
| MOUNTING      | GROUND                                 |
| BACKGROUND    | TYPE: REFLECTIVE<br>COLOR: ORANGE      |
| LEGEND/BORDER | TYPE: REFLECTIVE<br>COLOR: BLACK/BLACK |

DIMENSIONS ARE IN INCHES. TENTHS      LETTER SPACINGS ARE TO START OF NEXT LETTER

| LETTER POSITIONS (X) |     |     |     |     |   |      |     |     |     |     |     | LENGTH | SERIES/SIZE |
|----------------------|-----|-----|-----|-----|---|------|-----|-----|-----|-----|-----|--------|-------------|
|                      | T   | E   | C   | H   | N | O    | L   | O   | G   | Y   |     |        | C 2000      |
| 3.8                  | 2.6 | 2.6 | 3   | 3.1 | 3 | 3.2  | 2.5 | 3.1 | 2.7 | 2.6 | 3.8 | 28.5   | 4           |
|                      | D   | R   | I   | V   | E |      |     |     |     |     |     |        | C 2000      |
| 11.9                 | 3   | 2.9 | 1.1 | 3   | 2 | 11.9 |     |     |     |     |     | 12.2   | 4           |

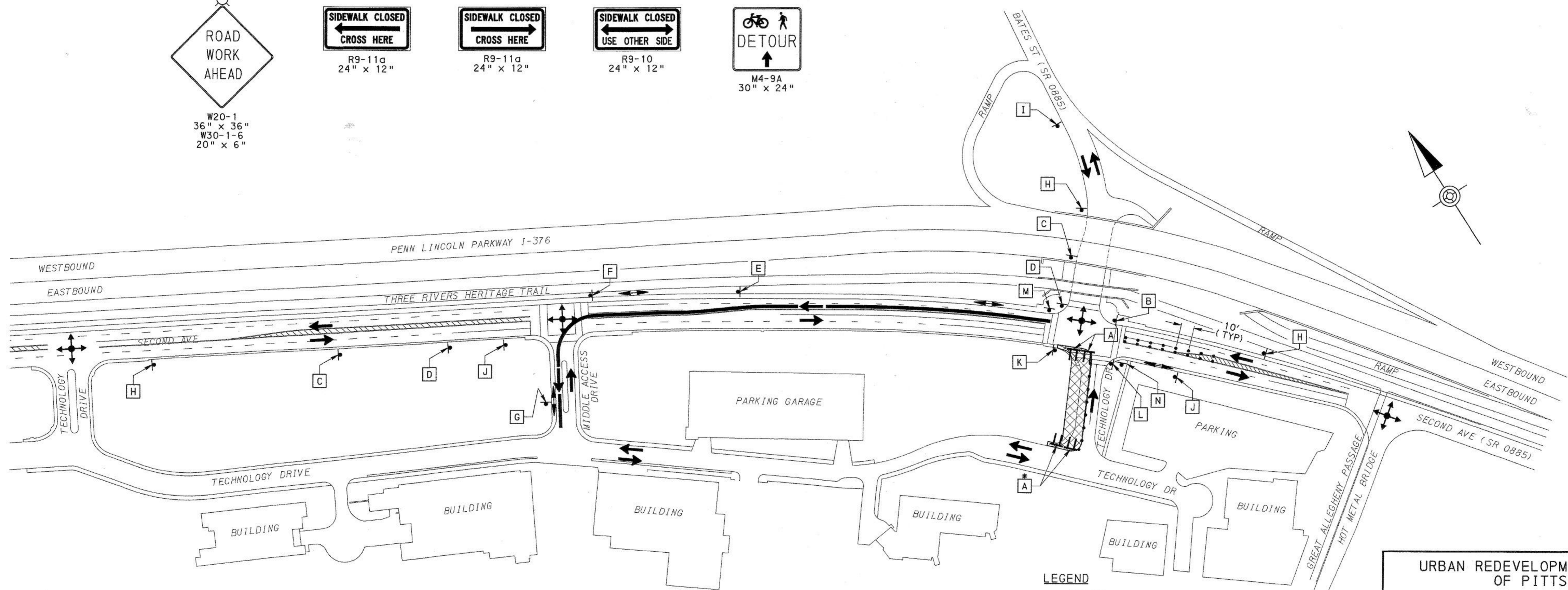
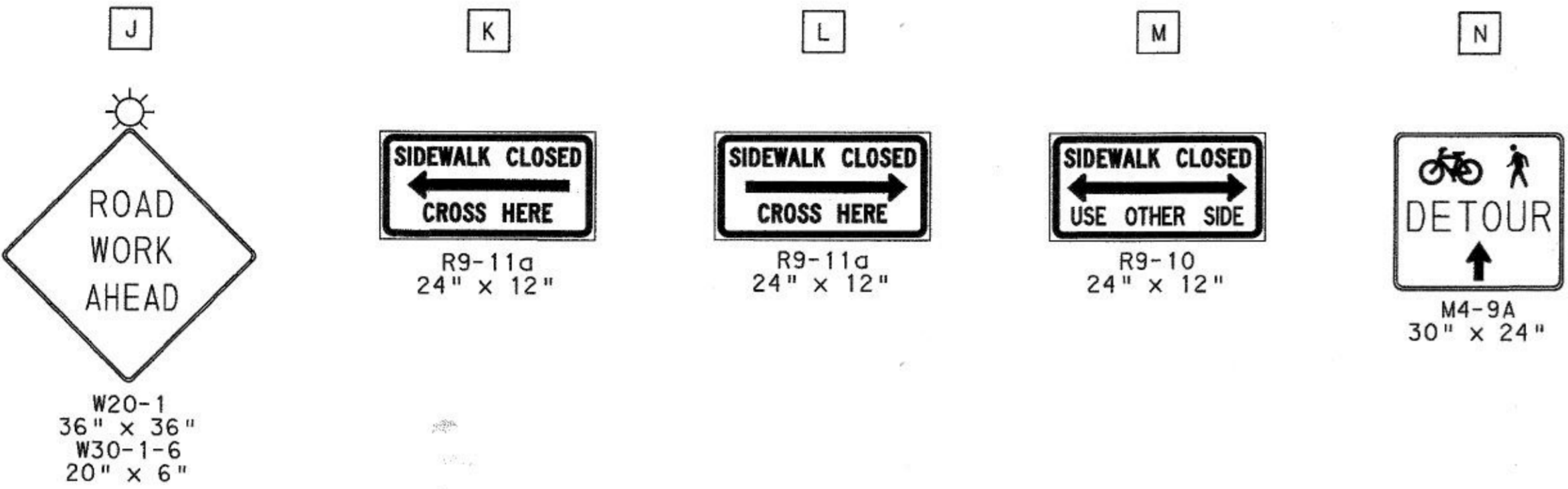
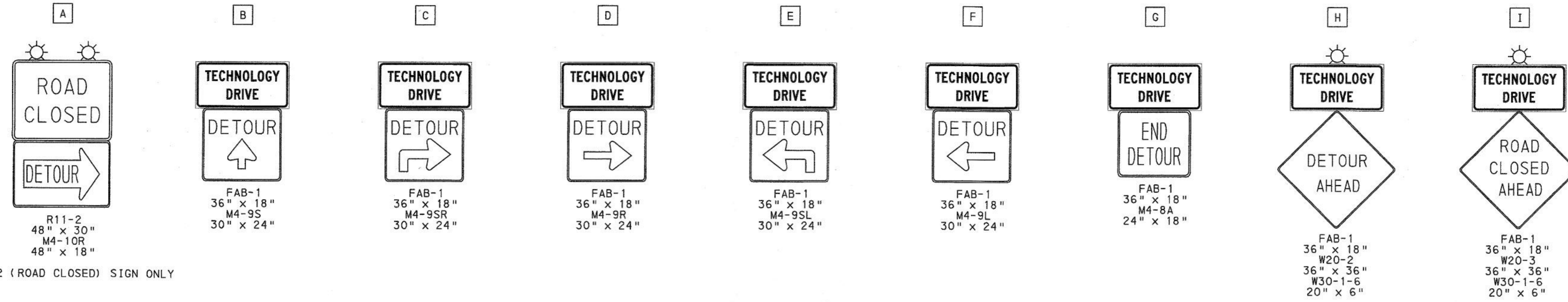
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| FIELD DATA | DRAWN     | SUPERVISOR  | REVISIONS |      |
|------------|-----------|-------------|-----------|------|
| BY         |           |             | CHARACTER | DATE |
| CHECKED    | INSPECT'D | CON. CONST. |           |      |
| CALC. BOOK |           |             |           |      |

Record Drawings

**URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH**  
  
**PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS**  
  
**CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING**  
  
**TRAFFIC CONTROL PLAN**

SCALE: NONE      SHEET NO.      ACCESSION NO. **AL19-049**  
 DATE: 2/23/17      200F21      CASE NO. **C-5-1**



URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

**TRAFFIC CONTROL PLAN**

SCALE: AS SHOWN SHEET NO. 210F21 ACCESSION NO. A(19)-629  
DATE: 2/23/17 CASE NO. C-5-1

Record Drawings

3/28/2017 \\usp\IT\p002\Bates\Projects\Transportation\1555 60445862-Bates-Street-Improvement\Drawings\ISO\WPT\Bates-MPT\PlanSheet01.dgn

| FIELD DATA | DRAMA     | SUPERVISOR | REVISIONS |  |
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| BY         | DATE      | CHARACTER  | DATE      |  |
| CHECKED    | INSPECTED | CONSTR.    |           |  |
| CALC. BOOK | PG.       |            |           |  |

# CROSS SECTIONS

## TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS

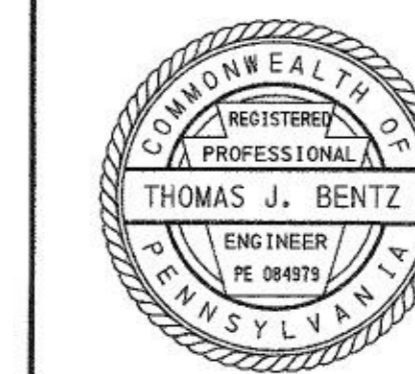
TECHNOLOGY DRIVE (EAST ACCESS)

STA 122+90.82 TO STA 124+90.77

SHEETS 2-6

| FIELD DATA | DRAWN     | SUPV'Y'G    | REVISIONS |      |
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| BY         |           |             | CHARACTER | DATE |
| CHECKED    | INSPECT'D | CHG. CONST. |           |      |
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| ENC. BOOK  | PC        |             |           |      |

Record Drawings



URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

PITTSBURGH TECHNOLOGY CENTER  
SITE PREPARATION CONTRACT NO. 14  
TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS

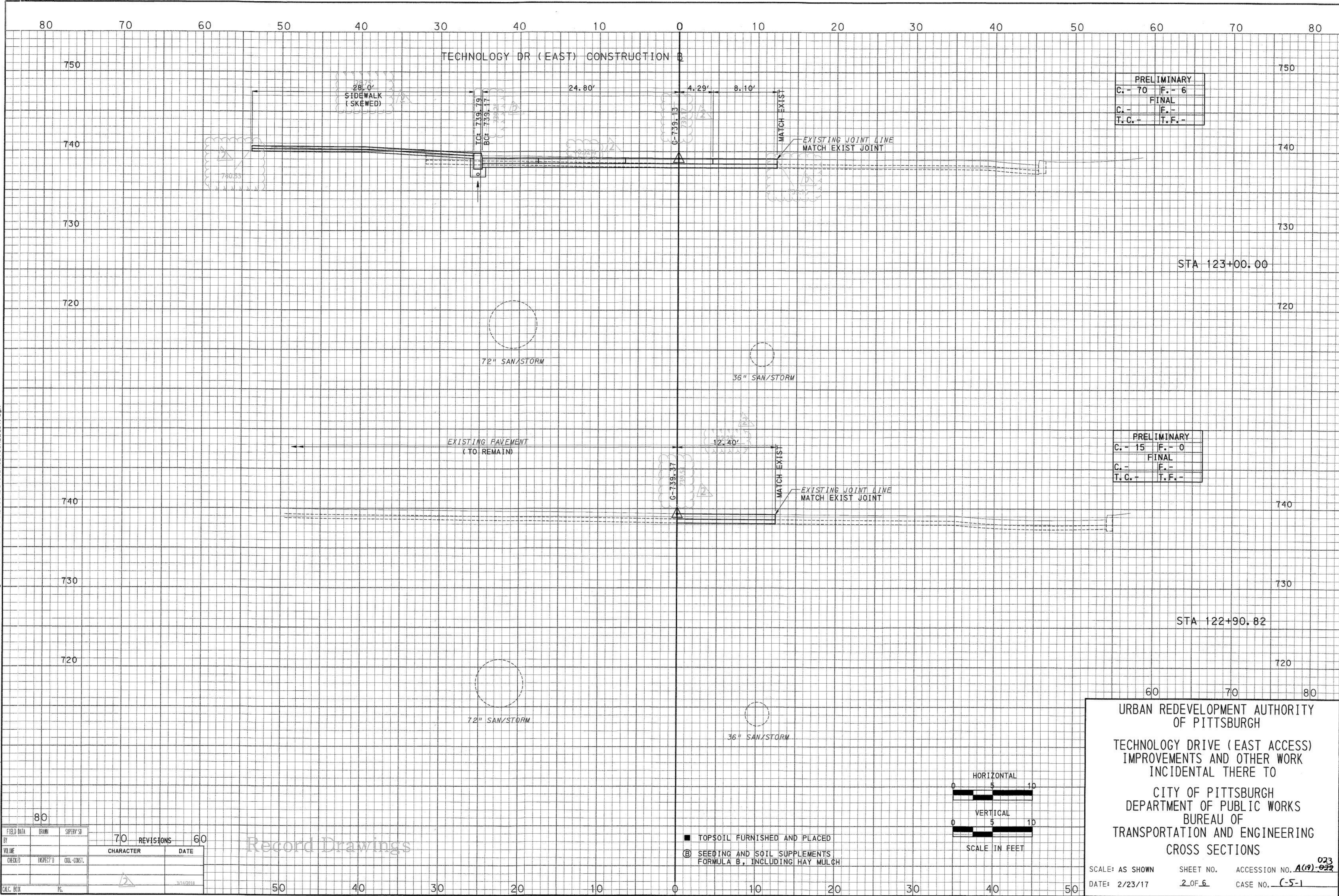
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING

CROSS SECTION TITLE SHEET

SCALE: NONE SHEET NO. ACCESSION NO. A(1)-021  
DATE: 2/23/17 1 OF 6 CASE NO. (-5-1)

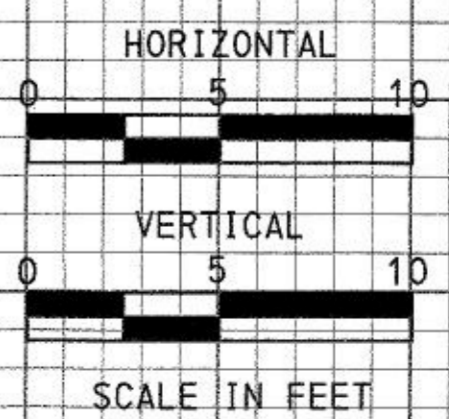
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|             |        |
|-------------|--------|
| PRELIMINARY |        |
| C. - 70     | F. - 6 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

|             |        |
|-------------|--------|
| PRELIMINARY |        |
| C. - 15     | F. - 0 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |



- TOPSOIL FURNISHED AND PLACED
- ⓑ SEEDING AND SOIL SUPPLEMENTS FORMULA B, INCLUDING HAY MULCH

Record Drawings

|            |           |         |           |
|------------|-----------|---------|-----------|
| FIELD DATA | BY        | DATE    | REVISIONS |
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| SUPERVISOR | CHARACTER | DATE    |           |
| VOLUME     |           |         |           |
| CHECKED    | INSPECTED | CONSTR. |           |
| CALC. BY   | DATE      |         |           |

URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS AND OTHER WORK INCIDENTAL THERE TO

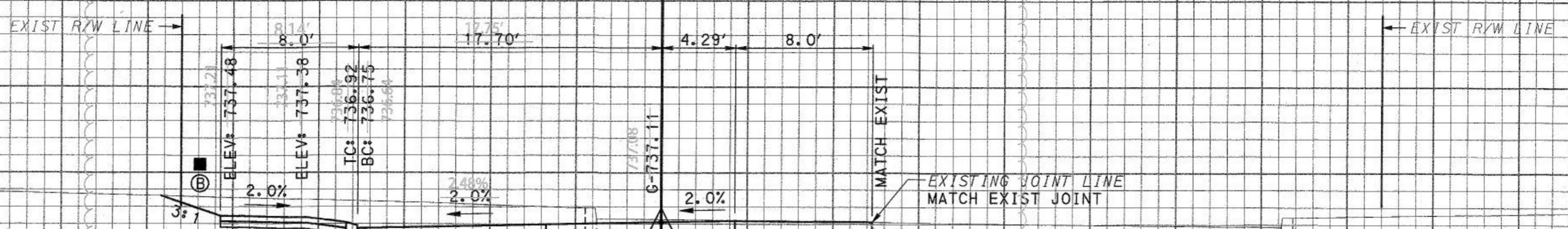
CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING

CROSS SECTIONS

SCALE: AS SHOWN    SHEET NO. 2 OF 6    ACCESSION NO. A(19)-023  
DATE: 2/23/17    CASE NO. C-5-1

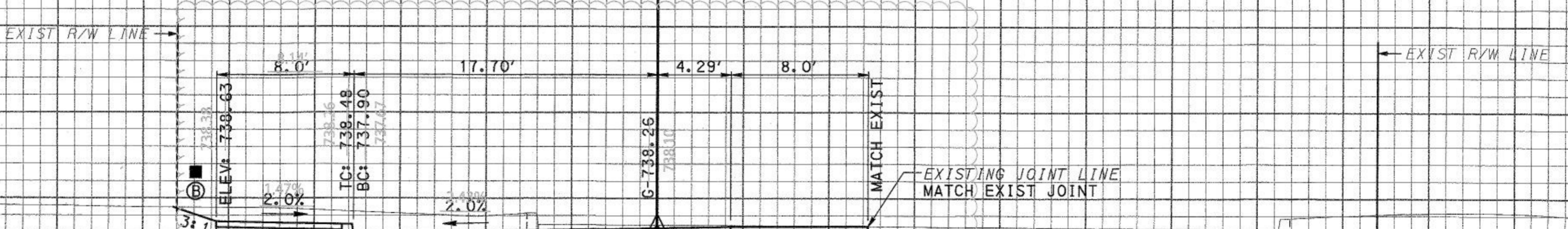
80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

TECHNOLOGY DR (EAST) CONSTRUCTION B



| PRELIMINARY |        |
|-------------|--------|
| C. - 73     | F. - 0 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

STA 123+50.00



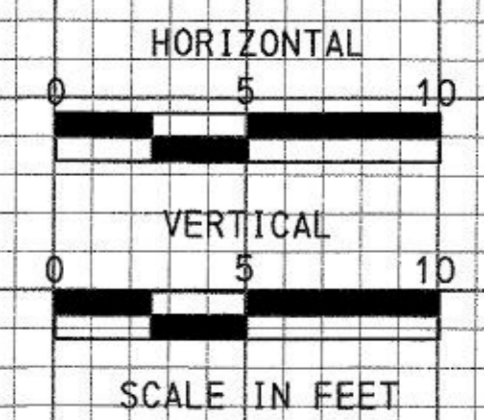
| PRELIMINARY |        |
|-------------|--------|
| C. - 65     | F. - 0 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

STA 123+25.00

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS AND OTHER WORK  
INCIDENTAL THERE TO

CITY OF PITTSBURGH  
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BUREAU OF  
TRANSPORTATION AND ENGINEERING  
CROSS SECTIONS



- TOPSOIL FURNISHED AND PLACED
- ⓑ SEEDING AND SOIL SUPPLEMENTS FORMULA B, INCLUDING HAY MULCH

Record Drawings

|            |           |             |           |    |
|------------|-----------|-------------|-----------|----|
| FIELD DATA | BY        | DATE        | REVISIONS | 60 |
| BY         | DATE      | CHARACTER   | DATE      |    |
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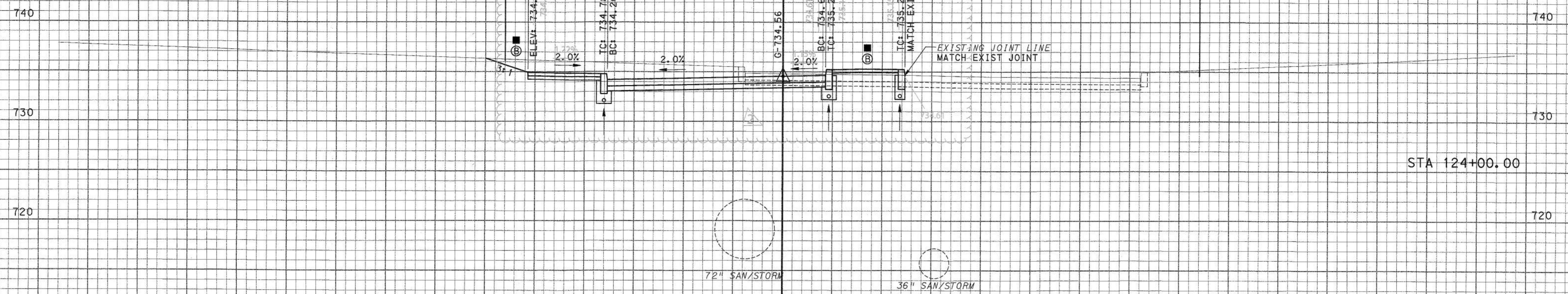


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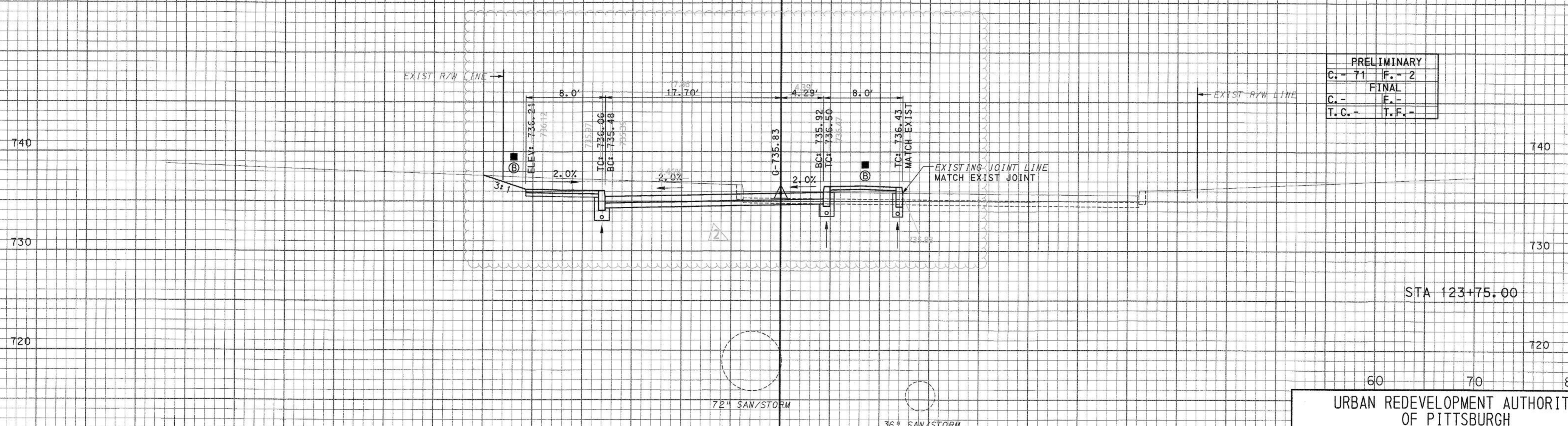
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TECHNOLOGY DR (EAST) CONSTRUCTION B

|             |       |
|-------------|-------|
| PRELIMINARY |       |
| C.- 73      | F.- 2 |
| FINAL       |       |
| C.-         | F.-   |
| T.C.-       | T.F.- |



STA 124+00.00



|             |       |
|-------------|-------|
| PRELIMINARY |       |
| C.- 71      | F.- 2 |
| FINAL       |       |
| C.-         | F.-   |
| T.C.-       | T.F.- |

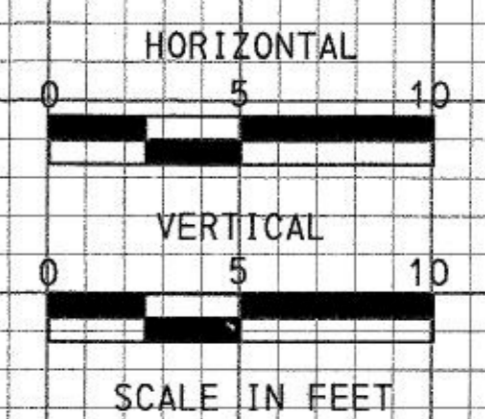
STA 123+75.00

60 70 80

URBAN REDEVELOPMENT AUTHORITY  
OF PITTSBURGH

TECHNOLOGY DRIVE (EAST ACCESS)  
IMPROVEMENTS AND OTHER WORK  
INCIDENTAL THERE TO

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF  
TRANSPORTATION AND ENGINEERING  
CROSS SECTIONS



- TOPSOIL FURNISHED AND PLACED
- ⓑ SEEDING AND SOIL SUPPLEMENTS FORMULA B, INCLUDING HAY MULCH

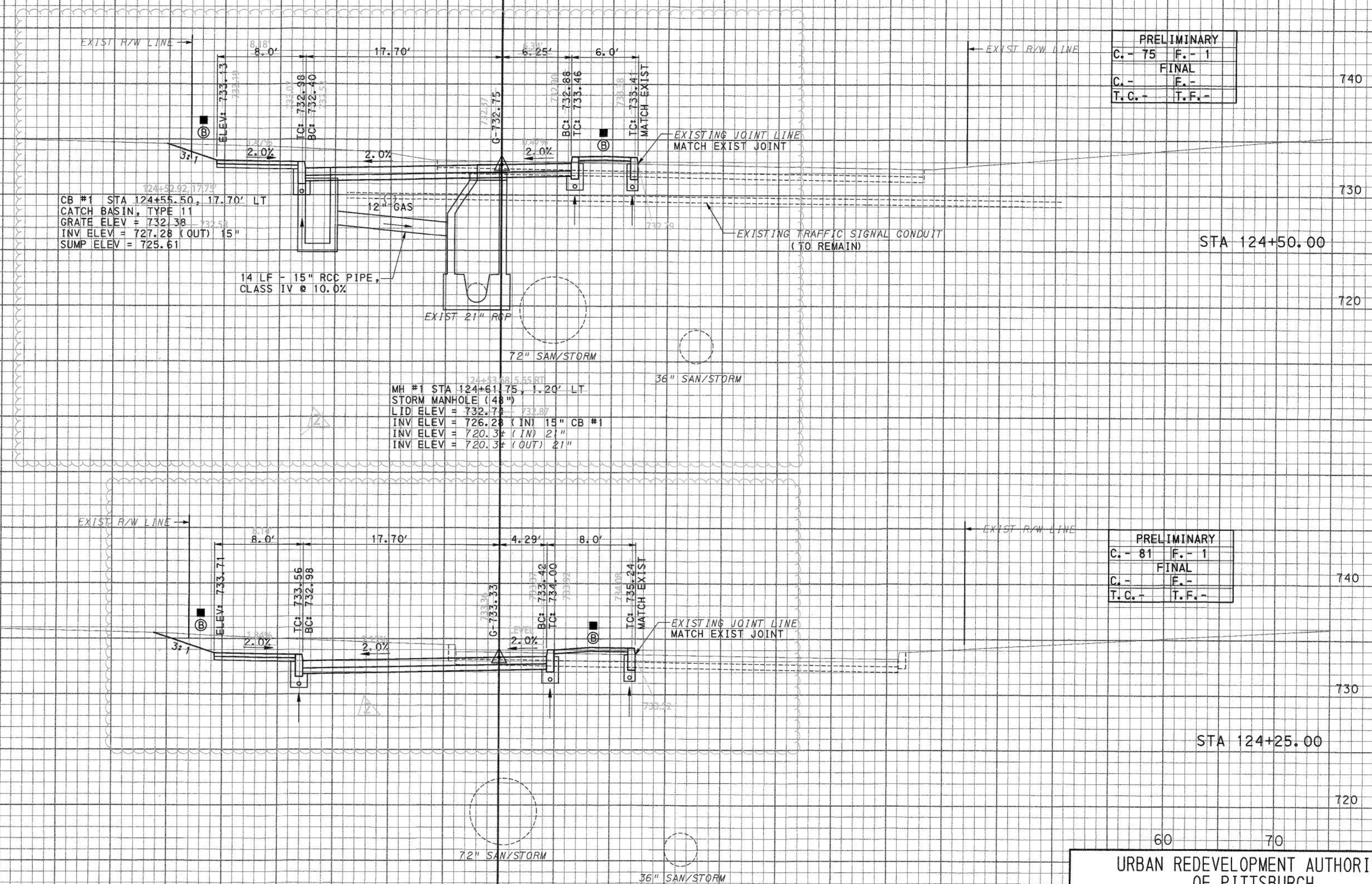
Record Drawings

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| BY         |           |            | CHARACTER | DATE      |    |
| CHECKED    | INSPECT'D | CONSTR.    |           |           |    |
| CALC. BOOK | PG.       |            |           |           |    |

SCALE: AS SHOWN SHEET NO. 4 OF 6 ACCESSION NO. A(19)-025-025  
DATE: 2/23/17 CASE NO. C-5-1

50 40 30 20 10 0 10 20 30 40 50

TECHNOLOGY DR (EAST) CONSTRUCTION B



|             |        |
|-------------|--------|
| PRELIMINARY |        |
| C. - 75     | F. - 1 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

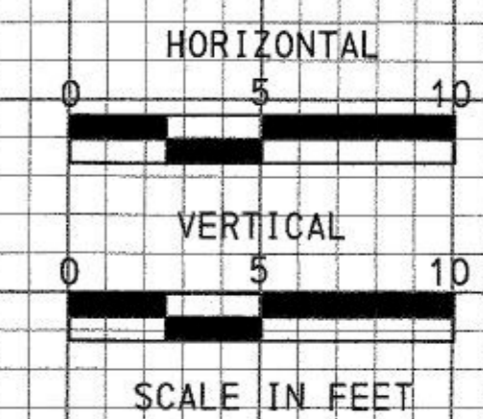
|             |        |
|-------------|--------|
| PRELIMINARY |        |
| C. - 81     | F. - 1 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

CB #1 STA 124+55.50, 17.70' LT  
 CATCH BASIN, TYPE 11  
 GRATE ELEV = 732.38  
 INV ELEV = 727.28 (OUT) 15"  
 SUMP ELEV = 725.61

MH #1 STA 124+61.75, 1.20' LT  
 STORM MANHOLE (48")  
 LID ELEV = 732.72  
 INV ELEV = 726.28 (IN) 15" CB #1  
 INV ELEV = 720.3# (IN) 21"  
 INV ELEV = 720.3# (OUT) 21"

Record Drawings

- TOPSOIL FURNISHED AND PLACED
- Ⓟ SEEDING AND SOIL SUPPLEMENTS FORMULA B, INCLUDING HAY MULCH



URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS AND OTHER WORK INCIDENTAL THERE TO

CITY OF PITTSBURGH  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF TRANSPORTATION AND ENGINEERING

CROSS SECTIONS

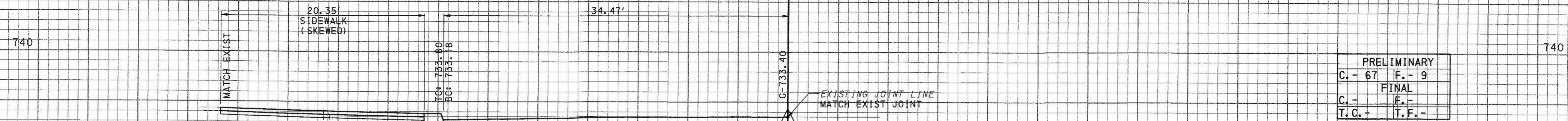
SCALE: AS SHOWN SHEET NO. 5 OF 6 ACCESSION NO. A(19)-023  
 DATE: 2/23/17 CASE NO. C-5-1

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|            |    |      |           |      |
|------------|----|------|-----------|------|
| FIELD DATA | BY | DATE | REVISIONS | DATE |
| DESIGNED   | 70 |      | 60        |      |
| CHECKED    |    |      |           |      |
| INSPECT'D  |    |      |           |      |
| CONC.      |    |      |           |      |

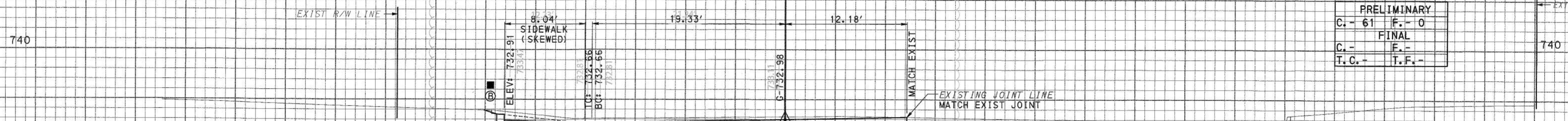
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TECHNOLOGY DR (EAST) CONSTRUCTION B



| PRELIMINARY |        |
|-------------|--------|
| C. - 67     | F. - 9 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

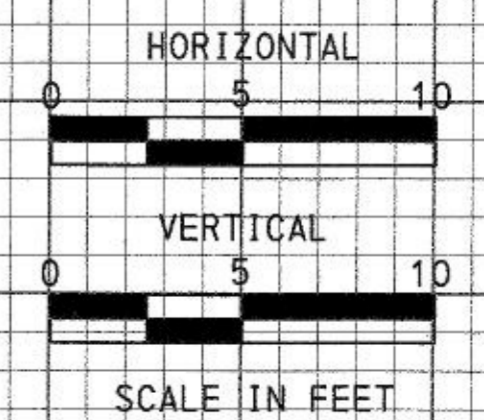
STA 124+90.77



| PRELIMINARY |        |
|-------------|--------|
| C. - 61     | F. - 0 |
| FINAL       |        |
| C. -        | F. -   |
| T.C. -      | T.F. - |

STA 124+75.00

- TOPSOIL FURNISHED AND PLACED
- ⓑ SEEDING AND SOIL SUPPLEMENTS FORMULA B, INCLUDING HAY MULCH



URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

TECHNOLOGY DRIVE (EAST ACCESS) IMPROVEMENTS AND OTHER WORK INCIDENTAL THERE TO

CITY OF PITTSBURGH  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF TRANSPORTATION AND ENGINEERING

CROSS SECTIONS

SCALE: AS SHOWN      SHEET NO. 6 OF 6      ACCESSION NO. A(19)-027  
DATE: 2/23/17      CASE NO. C-5-1

Record Drawings

| 80                | 70               | 60                |
|-------------------|------------------|-------------------|
| FIELD DATA        | REVISIONS        | DATE              |
| BY: _____         | CHARACTER: _____ | DATE: _____       |
| CHECKED: _____    | INSPECT'D: _____ | CON. CONST: _____ |
| CALC. BOOK: _____ | PG: _____        | SIGNATURE: _____  |

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