THE BANKS

PUBLIC INFRASTRUCTURE DEVELOPMENT

PHASE 3B - LOT 23/27 GARAGE & RACE ST. TURNAROUND

B.P. #6 - LOT 23 PARK, LOT 23/27 GARAGE SIGNAGE & SECURITY (ITB# 016-20)
FEBRUARY 21, 2020

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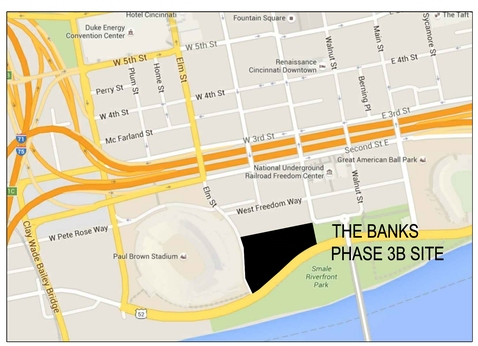
THE BANKS
Public Partnership



LOCATION PLAN NORTH

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TOPOGRAPHIC SURVEY - PODIUM LEVEL

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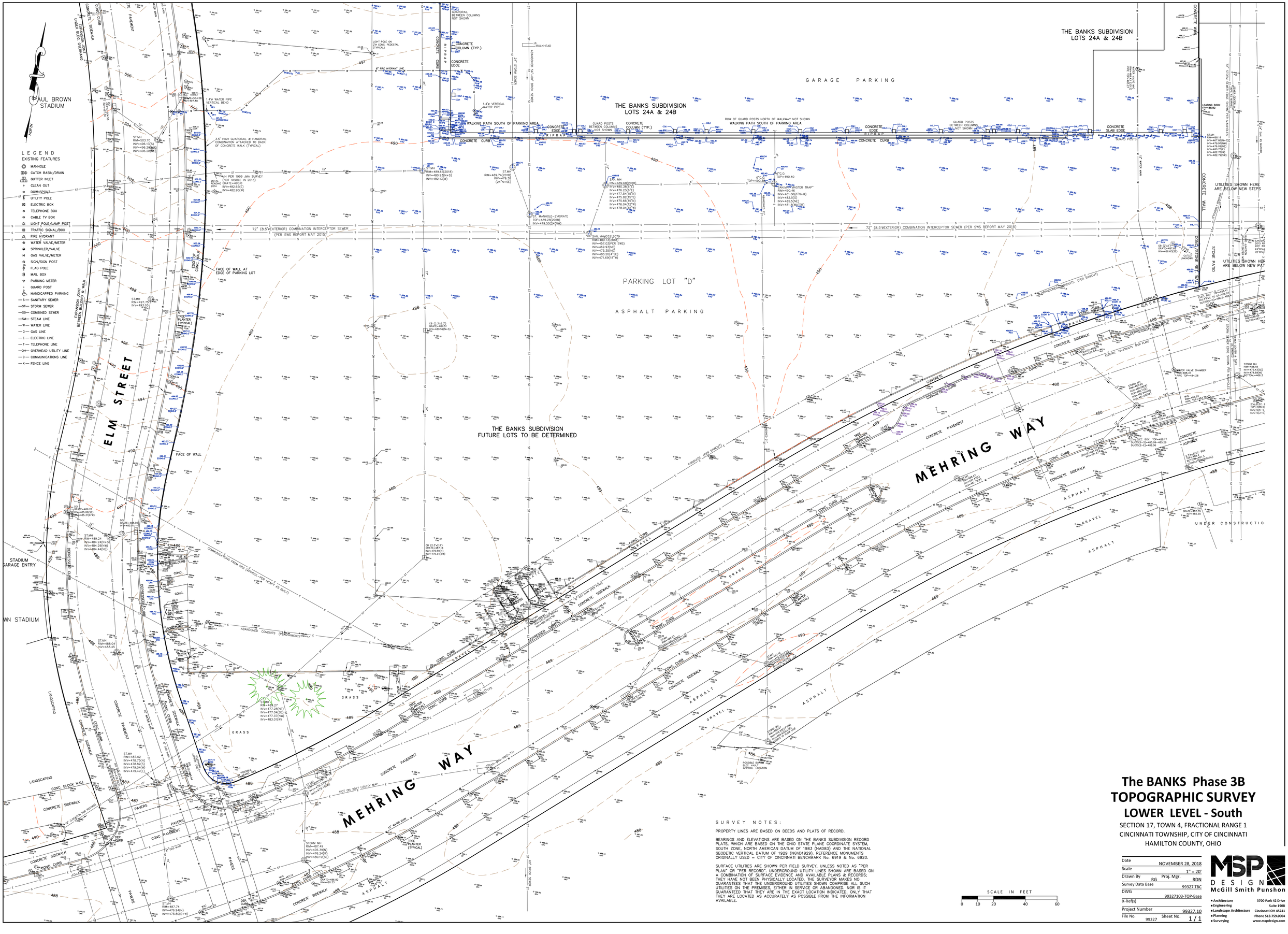

SURVEY NOTES:

PROPERTY LINES ARE BASED ON DEEDS AND PLATS OF RECORD.

BEARINGS AND ELEVATIONS ARE BASED ON THE BANKS SUBDIVISION RECORD PLATS, WHICH ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD1929). REFERENCE MONUMENTS ORIGINALLY USED = CITY OF CINCINNATI BENCHMARK No. 6919 & No. 6920.

SURFACE UTILITIES ARE SHOWN PER FIELD SURVEY, UNLESS NOTED AS "PER PLAN" OR "PER RECORD". UNDERGROUND UTILITY LINES SHOWN ARE BASED ON A COMBINATION OF SURFACE EVIDENCE AND AVAILABLE PLANS & RECORDS; THEY HAVE NOT BEEN PHYSICALLY LOCATED. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES ON THE PREMISES, EITHER IN SERVICE OR ABANDONED. NOR IS IT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION INDICATED, ONLY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

The BANKS Phase 3B
TOPOGRAPHIC SURVEY
LOWER LEVEL - South

SECTION 17, TOWN 4, FRACTIONAL RANGE 1
CINCINNATI TOWNSHIP, CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Date	NOVEMBER 28, 2018
Scale	1" = 20'
Drawn By	RG Proj. Mgr. RDN
Survey Data Base	99327 TBC
DWG	99327103-TOP-Base
X-Ref(s)	
Project Number	99327.10
File No. 99327	Sheet No. 1 / 1

MSP DESIGN
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■ Architecture ■ Engineering ■ Landscape Architecture ■ Planning ■ Surveying
3700 Park 42 Drive Suite 190B Cincinnati OH 45241 Phone 513.759.0004 www.mspdesign.com

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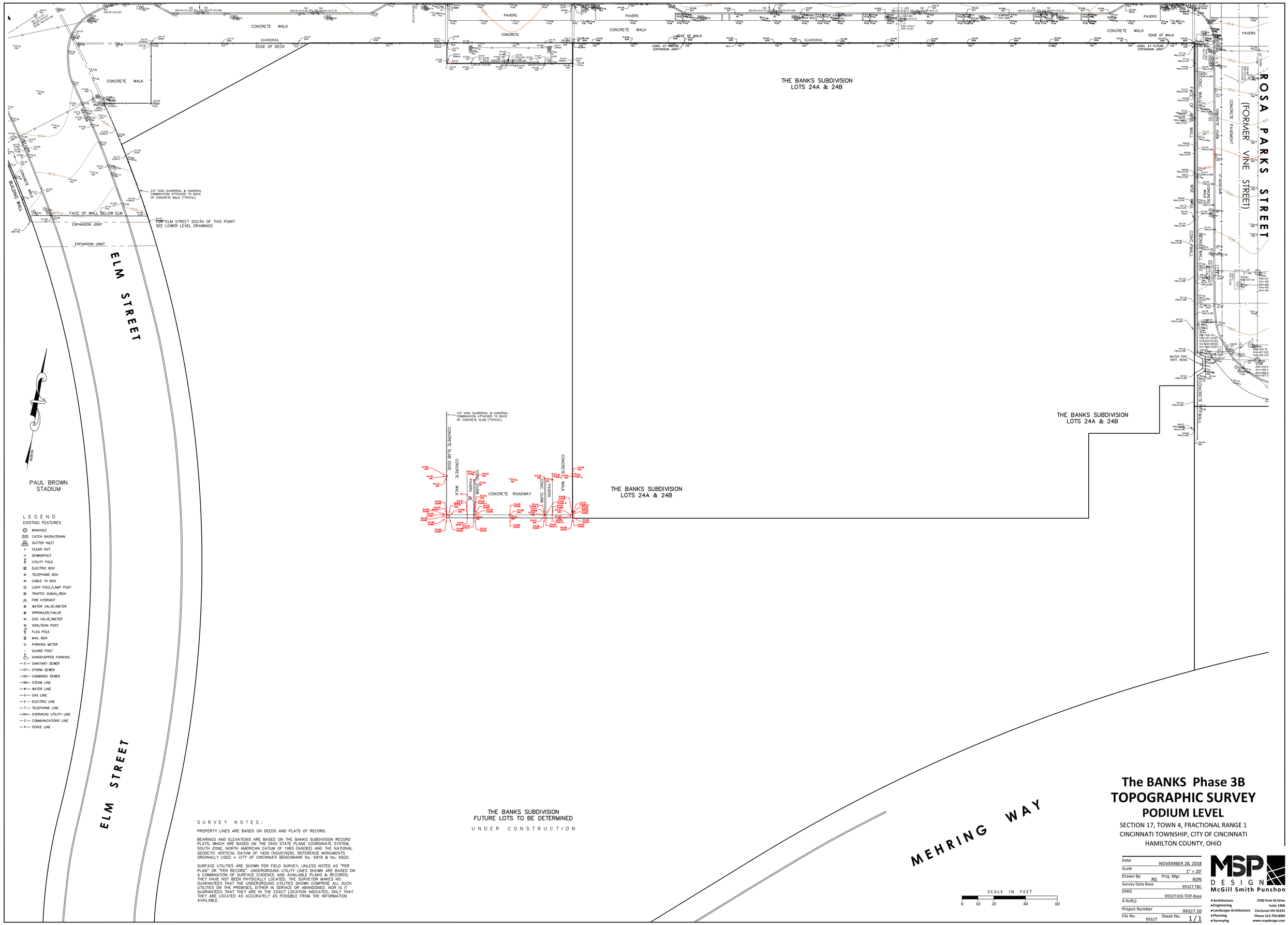

LEGEND

EXISTING FEATURES

- MANHOLE
- CATCH BASIN/DRAIN
- GUTTER INLET
- CLEAN OUT
- DOWNSPOUT
- UTILITY POLE
- ELECTRIC BOX
- TELEPHONE BOX
- CABLE TV BOX
- LIGHT POLE/LAMP POST
- TRAFFIC SIGNAL/BOX
- FIRE HYDRANT
- WATER VALVE/METER
- SPRINKLER/VALVE
- GAS VALVE/METER
- SIGN/SIGN POST
- FLAG POLE
- MAIL BOX
- PARKING METER
- GUARD POST
- HANDICAPPED PARKING
- —S— SANITARY SEWER
- —ST— STORM SEWER
- —SS— COMBINED SEWER
- —SM— STEAM LINE
- —W— WATER LINE
- —G— GAS LINE
- —E— ELECTRIC LINE
- —T— TELEPHONE LINE
- —OH— OVERHEAD UTILITY LINE
- —C— COMMUNICATIONS LINE
- —X— FENCE LINE

SURVEY NOTES:

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The BANKS Phase 3B
TOPOGRAPHIC SURVEY
PODIUM LEVEL

SECTION 17, TOWN 4, FRACTIONAL RANGE 1
CINCINNATI TOWNSHIP, CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Date	NOVEMBER 28, 2018
Scale	1" = 20'
Drawn By	RG Proj. Mgr. RDN
Survey Data Base	99327 TBC
DWG	99327103-TOP-Base
X-Ref(s)	
Project Number	99327.10
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BUILDING CODE NOTES - PHASE 3B PARKING GARAGE

PROJECT LOCATION
- Central Riverfront, South of Freedom Way to Mehring Way, between Elm Street and Rosa Parks, Cincinnati, Ohio 45202.
- Phase 3 includes the development Blocks designated as Lots 23, 24, 25, 27, and 28. Phase 3B only includes Lot 23, Lot 27, Lot 28 and the Race Street Turnaround.

PROJECT DESCRIPTION
- This project includes only the Phase 3B section of the Central Riverfront Garage and the Race Street Turnaround. The Phase 3B section of the Central Riverfront Garage is a one-story public parking garage with a building (Music Venue) above (by others) on Lot 27, a park and the Race Street Turnaround above on Lot 23, and a park above on Lot 28.
- The Garage shall be built of Type IA construction and separated from buildings built above by a three-hour rated podium.
- This podium establishes grade for determining the heights and the construction types of the buildings built above this public parking garage.
- The buildings and occupancies designed and constructed above this podium are not covered within this code summary.

PROJECT SITE ZONING
- Planned Development District No. 43 (PD-43).

BUILDING DEPARTMENT
- City of Cincinnati, Department of Planning, Division of Buildings and Inspections.

APPLICABLE CODES
- Cincinnati Building Code - 2017 based on the 2015 edition of the International Building Code.
- Cincinnati Fire Prevention Code.
- Ohio Mechanical Code - 2017.
- Ohio Plumbing Code - 2017.
- Ohio Elevator Code and Cincinnati Building Code Chapter 1107.
- Ohio Electrical Code (NFPA 70-17).
- Accessibility Code: ADA Accessibility Guidelines - updated 2010, and ICC/ANSI A117.1 - 2010.

FLOOD DESIGN REQUIREMENTS
- The 100-year Base Flood Elevation has been established at elevation 498.2' (FEMA Map #39061C0307D, effective date of 5/17/2004).
- The flood hazard area, as designated from the map, is "AE". Design and construction is based on ASCE 24-05 "Flood Resistant Design and Construction".
- Design Flood Elevation is 499.2' (Base Flood Elevation 498.2' plus 1'-0") for occupied spaces (i.e. Electrical Rooms, Water Meter Rooms, etc.).

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
- Use Group S-2 Enclosed Parking Garage - low-hazard storage occupancy. In the interim (prior to development of the adjacent Lot 25 (to the north), Level 489 in Lots 27 and 28 qualifies as an Open Parking Garage.
- Future occupancies above (overbuild) will be permitted separately, and involve other Use Groups.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY
- Complies with Enclosed Parking Garage requirements per 406.4. In the interim (prior to development of Lot 25), Level 489 in Lots 27 and 28 qualifies as an Open Parking Garage.
- Heights and areas comply with 406.6.1. Refer to notes under Chapter 5 below.
- Mechanical ventilation provided per 406.6.2. Exhaust fan system constructed in Phase 2 (Lot 2) was sized to accommodate the Phase 3A and 3B garage build-out to the south, all the way to Mehring Way (Lot 23).

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
- Construction Type IA Protected Noncombustible per Table 601.
- Allowable Height: Unlimited per Table 504.3.
- Actual Height: 2 levels below grade (podium level grade varies from 503' to 507', and Race Street Turnaround at 515').
- Allowable Area: Unlimited per Table 506.2.
- Actual Area:

  Level 489: Lot 23 @ 91,674 s.f.
  Lot 27 @ 40,866 s.f.
  Lot 28 @ 23,100 s.f.
  155,640 s.f. total

- Development above Lot 23 and Lot 28 podium is public park.
- Development above Lot 27 podium is private Music Venue project, permitted separately.
- Complies with separation requirements per 510.2, between S-2 Enclosed Parking Garage and future overbuild above.
  - o Podium level is 3-hour-rated horizontal separation per 510.2 and 710.3.
  - o All structural frame elements (columns, girders, framing) supporting the future 3-hour-rated podium: 3 hours.

CHAPTER 6 - TYPES OF CONSTRUCTION
- Type IA Protected Noncombustible per 602.2 and Table 721.1.
- Table 601 Fire-Resistance Rating Requirements For Building Elements:
  - o Structural frame: 3 hours.
  - o Exterior bearing walls: Refer to Table 602 notes below.
  - o Interior bearing walls: 3 hours.
  - o Exterior nonbearing walls and partitions: Refer to Table 602 notes below.
  - o Interior nonbearing walls and partitions: 0 hour.
  - o Floor construction including beams: 2 hours, except the podium slab is 3 hours.
  - o Roof construction including girders and framing supporting roof only: 1½ hours (the podium remains 3-hour-rated).
- Table 602 Fire-Resistance Rating Requirements For Exterior Walls Based on Fire Separation:
  - o Type IA, Use Group S-2, (Less than 30 feet): 1 hour (*).
  - o Type IA, Use Group S -2 (Equal to or greater than 30 feet): 0 hour.
    (*) The exterior walls have no required fire rating since public streets surround the site and provide greater than 30 foot distance to adjacent building structure or street centerline.
  - o The wall separating the garage from the Transit Center is a four-hour fire resistance rated fire (not structurally independent) separation wall per Appeal File #52-00". This wall is 665 feet north of the Lot 23 Garage footprint and is not a consideration for this Phase.
  - o The future wall separating the garage from the adjacent Music Venue above the Lot 27 podium is not part of the garage project, and will be part of the separately permitted Music Venue project.

CHAPTER 7 - FIRE-RESISTANCE-RATED CONSTRUCTION
- Exterior walls: 0-hour rating per 704.10 and Table 602 notes.
- Fire walls: 2 hours per Table 706.4.
- Fire enclosure for exit stairways: 2 hours per Section 510.2 and 713.4. For Phase 1, appeal was granted for Appeal File No. 23-08 allowing glass enclosure with sprinklers at the glass. For Phase 2, appeal was granted for Appeal File No. 22-09 for the same items. The same appeal and compliance strategy was granted for Phase 3 (Appeal File No. 2-15).
- Shafts (other than exits): 2 hours per 713.4 where noted; unrated where permissible.
- Exit access corridors: 0 hour with sprinklers, per Table 1020.1.
- Penetrations comply with 714.3.
- Protection of rated structural members complies with 704.

CHAPTER 8 - INTERIOR FINISHES
- Interior wall finishes per Table 803.11, for sprinklered Use Group S:
  - o Vertical Exits & Passageways: Class C.
  - o Exit Access Corridors: Class C.
  - o Room & Enclosed Spaces: Class C.
- Interior floor finishes per 804.4: Vertical Exits, Exit Passageways, and Exit Access Corridors comply with the DOC FF-1 "pill test".

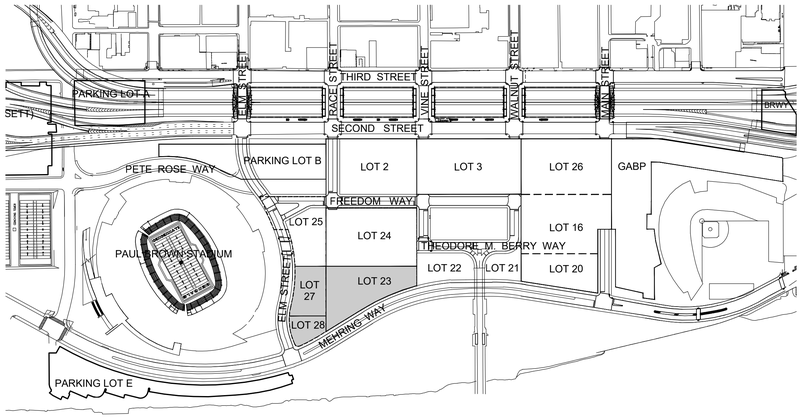
CHAPTER 9 - FIRE PROTECTION SYSTEMS
- Dry-type automatic sprinkler system provided per 903.2.10 and 406.6.3.
- Electrical supervision and central station connection of the sprinkler system provided per 903.4 and 903.4.1.
- Class I dry-type standpipe system provided per 905.3.1, 905.3.5, 905.8, and NFPA 14.
  - o Standpipe hose connections typically located in stairways, and where additional hose connections are required, they are located outside of stairways.
  - o All areas within 200' of a hose connection.
  - o 100 pounds of pressure (within a period of 60 seconds) provided at the hose connections with the help of fire pump.
  - o Hose threads and fire department connection locations and types to be reviewed and approved by the Cincinnati Fire Department per 903.3.6 and 912.1.
- Portable fire extinguishers provided per 906.1,International Fire Code, and NFPA 10.

CHAPTER 10 - MEANS OF EGRESS
- Design occupant load per Table 1004.1.2:
  - o Level 489:
    Lot 23: 91,674 SF total public parking / 200 SF per occupant = 459 occupants.
    Lot 27: 40,866 SF total public parking / 200 SF per occupant = 205 occupants.
    Lot 28: 23,100 SF total public parking / 200 SF per occupant = 116 occupants.
- Number of exits complies with Table 1006.3.1:
  - o Three exits required per level.
- Stairways:
  - o Comply with accessible means of egress per 1009.
- Guards comply with 1015.
- Remoteness of exits complies with the 1/3 diagonal rule.
- Egress lighting provided per 1008.
- Exit signs provided per 1013.
- Exit travel distances are within the allowable 400' maximum for sprinklered S-2 occupancy, per Table 1017.2.

CHAPTER 11 - ACCESSIBILITY
- All entrances, exits, egress ramps, elevators, route through building, and signage shall be accessible. Also refer to additional notes under Chapter 10 above.
- Numbers of accessible car and van spaces comply with Table 1106.1:
  - o Parking Spaces:
    Lot 23: 173
    Lot 27: 102
    Lot 28: 40
    315

    Required Accessible Spaces (per Table 1106.1):
    8 (including 2 that are van-accessible per 1106.5)
  - o Minimum vertical clearance at van spaces and along accessible route = 8'-2".

CHAPTER 12 - INTERIOR ENVIRONMENT
- Natural ventilation provided per 1203.4.
- Mechanical ventilation provided per the Ohio Mechanical Code.
- Lighting provided per 1205.2 or 1205.3.
- Stairway illumination provided per 1205.4 and Chapter 10.
- Emergency egress lighting provided per 1205.5 and 1008.3.



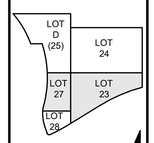
KEY PLAN

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/27/2020	BID PACKAGE #6

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/29/2019	PERMIT SET
3	4/12/2019	BID PACKAGE #2
4	4/17/2019	PERMIT SET - REVIEW COMMENTS
5	4/26/2019	BPIZ PERMIT SET
6	5/10/2019	DESIGN DEVELOPMENT
7	8/9/2019	SCOPING SET
8	8/27/2019	BID PACKAGE #5
9	9/9/2019	BPI PERMIT SET
10	11/4/2019	LOT 28 PILE PERMIT SET
11	12/12/2019	BID PACKAGE #5 - DD PRICING



DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

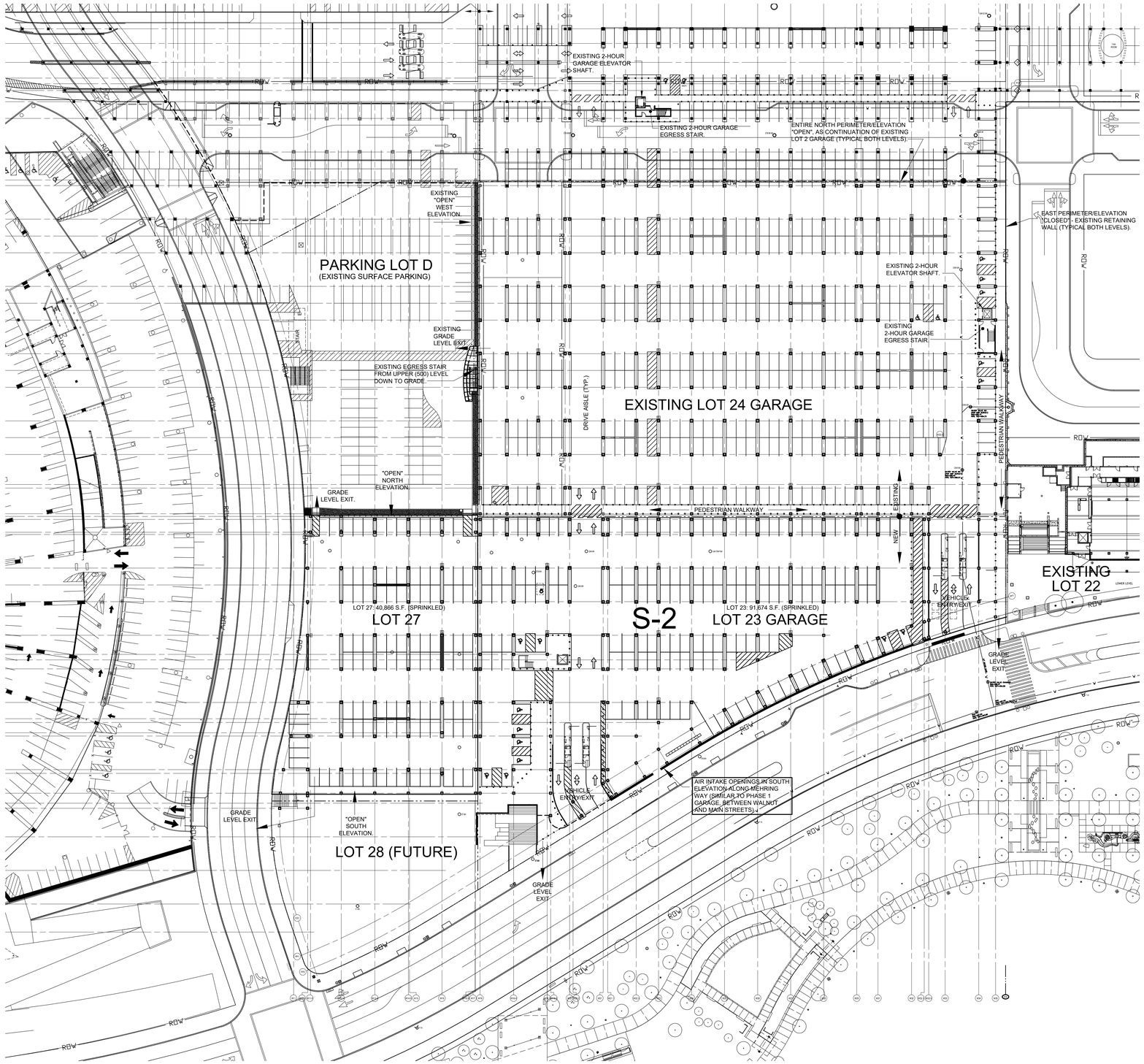
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: BUILDING CODE NOTES

JOB NUMBER: 98090.38
DATE: 3/4/2019

G001



1 G002 *LOWER LEVEL (489)*
BUILDING CODE PLAN
1" = 40'

NORTH

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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Consulting Engineers
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Fax: (513) 241-2981

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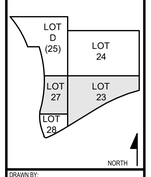
13	2/21/2020	BID PACKAGE #6

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/20/2019	BID PACKAGE #2
3	4/12/2019	BID PACKAGE #2
4	4/17/2019	PERMIT SET - REVIEW COMMENTS
5	4/26/2019	BPIZ PERMIT SET
6	5/10/2019	DESIGN DEVELOPMENT
7	8/9/2019	SCOPING SET
8	8/22/2019	BID PACKAGE #5
9	9/9/2019	BPI PERMIT SET
10	11/4/2019	LOT 28 PILE PERMIT SET
11	12/12/2019	BID PACKAGE #5 - DD PRICING



DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H

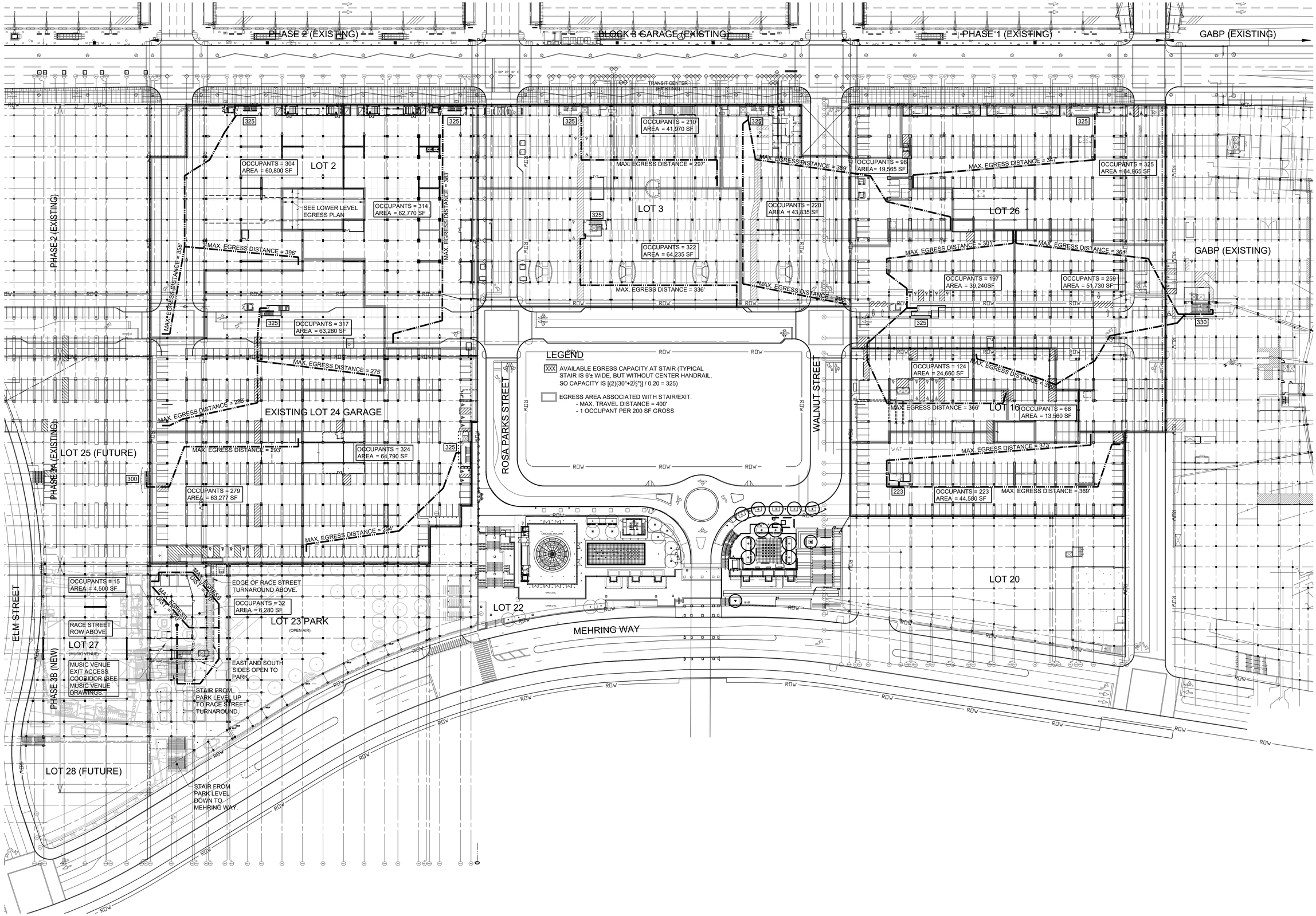
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: BUILDING CODE DIAGRAMS

JOB NUMBER: 98090.38
DATE: 3/4/2019

G002



UPPER LEVEL EGRESS PLAN (500)

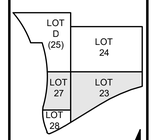
1" = 50'-0"

NORTH

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/29/2019	REVISIT
3	4/22/2019	BID PACKAGE #2 - SCOPING SET
4	5/10/2019	DESIGN DEVELOPMENT
5	8/9/2019	SCOPING SET
6	8/22/2019	BID PACKAGE #5
7	9/9/2019	BID PERMIT SET
8	2/21/2020	BID PACKAGE #6



DRAWN BY:

ENGINEER: M.S.M.

CHECKED BY:

THE BANKS PHASE 3B

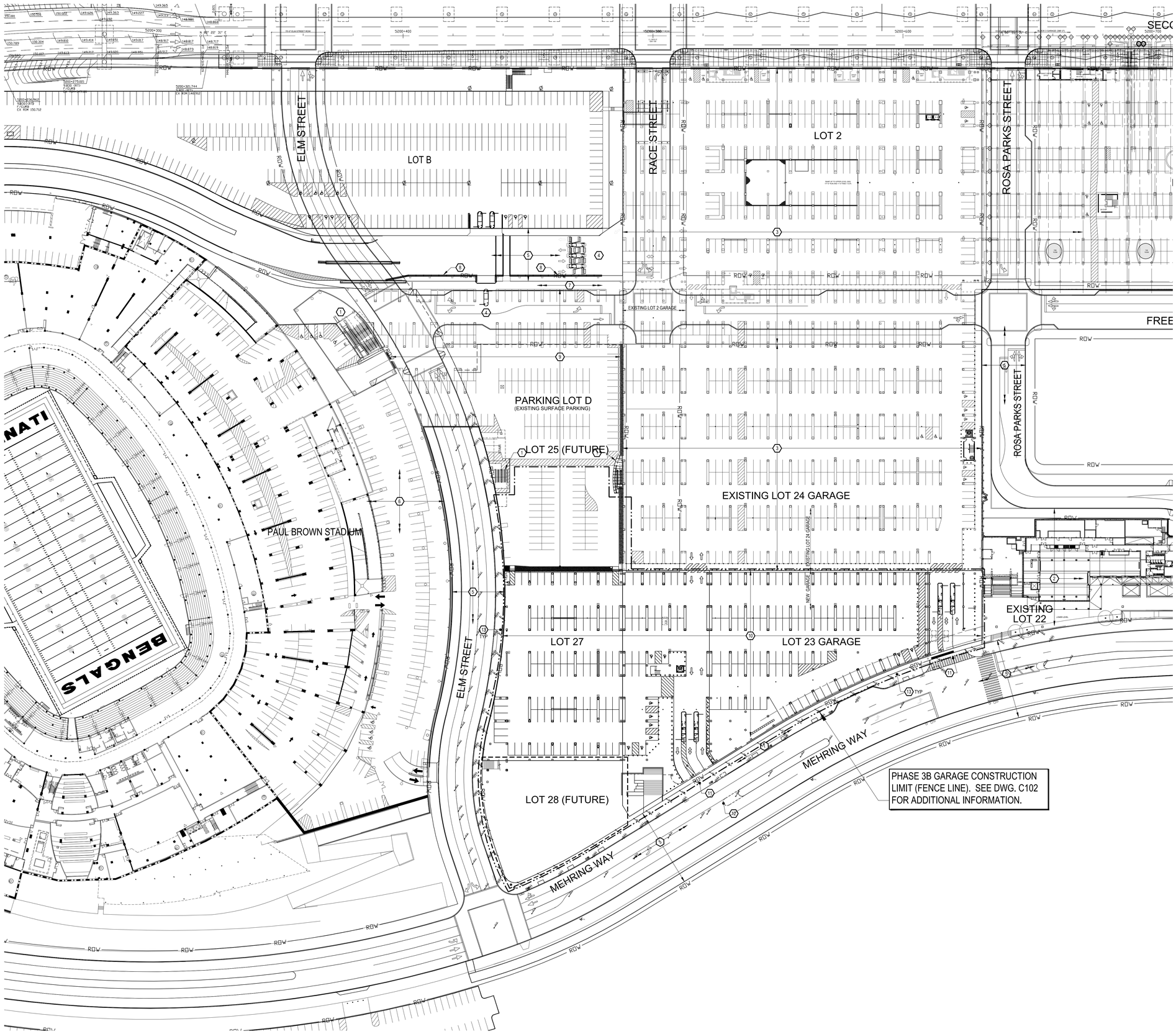
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: UPPER LEVEL (500) EGRESS PLAN

JOB NUMBER: 98090.38

DATE:

DRAWING NUMBER: G004



SITE PLAN

1" = 50'

NORTH

PROJECT GENERAL NOTES:

A. UTILITIES

1. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES RELATED TO UTILITY WORK. CONTRACTOR SHALL INSPECT AND VIDEO CONDITION OF ALL SEWERS TO REMAIN (INCLUDING 72" SANITARY, 60" STORM, 24"/30" STORM, AND 21" STORM) PER MSD & SMU REGULATIONS AND AS DIRECTED BY CONSTRUCTION MANAGER, PRIOR TO START AND AFTER COMPLETION OF PILE WORK.
2. ALL MATERIALS PERTAINING TO COMBINED OR SANITARY SEWERS MUST BE SUBMITTED TO MSD FOR APPROVAL. ALL MATERIAL PERTAINING TO STORM SEWERS MUST BE SUBMITTED TO STORMWATER MANAGEMENT FOR APPROVAL. PRIOR TO STARTING ANY WORK, VERIFY STATUS OF ALL SEWERS AFFECTED BY WORK OF THIS PROJECT WITH CONSTRUCTION MANAGER AND MSD FIELD ENGINEER, AND SMU FIELD ENGINEER. A STORMWATER MANAGEMENT UTILITY (SMU) PERMIT IS REQUIRED FOR WORK ON STORM SEWERS. AS-BUILT DRAWINGS SHALL BE SUBMITTED UPON THE COMPLETION OF ANY SANITARY AND STORM SEWER WORK. SEWERS INDICATED TO BE FILLED, SEALED AND ABANDONED, OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH ITEM 202 OF THE CITY OF CINCINNATI SUPPLEMENT. MANHOLES, CATCH BASINS, AND INLETS INDICATED TO BE REMOVED OR ABANDONED SHALL BE DONE SO IN ACCORDANCE WITH THE SAME.
3. PRIOR TO EXCAVATION AND EARTHWORK, VERIFY LOCATIONS OF UNDERGROUND UTILITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. SURVEY OR CAREFULLY EXCAVATE TO ESTABLISH EXACT UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON THE DRAWING ARE ONLY APPROXIMATE AND CANNOT BE USED TO ASSURE THE CONTRACTOR OF ADEQUATE CLEARANCE IN CASE OF CLOSE PROXIMITY. COORDINATE ALL WORK WITH THE UTILITIES TO ASSURE UNINTERRUPTED FUNCTION OF UTILITIES TO REMAIN.
4. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE UNDERGROUND UTILITY PROTECTION SERVICE (OUPS 1-800-362-2764) AND OWNERS OF UNDERGROUND UTILITIES NOT REGISTERED WITH OUPS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION WORK FOR THE PURPOSE OF SECURING A STAKED PATH OF RESPECTIVE UTILITIES AND WITH THE APPROXIMATE DEPTH INDICATED ON STAKES.
5. ACTIVE UTILITIES SHALL BE ADEQUATELY PROTECTED FROM DAMAGE. WHERE ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER, ARCHITECT, AND UTILITY OWNER IMMEDIATELY BEFORE PROCEEDING. WORK SHALL BE PROTECTED, SUPPORTED, OR RELOCATED AS DIRECTED, AND THE CONTRACT SUM ADJUSTED ACCORDINGLY, IF APPLICABLE.
6. INACTIVE AND ABANDONED UTILITIES ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONSTRUCTION MANAGER, ARCHITECT AND UTILITY OWNER. SUCH UTILITIES SHALL THEN BE REMOVED, PLUGGED, OR CAPPED AS DIRECTED. IN THE ABSENCE OF SPECIFIC REQUIREMENTS, PLUG OR CAP SUCH UTILITIES AS REQUIRED BY THE UTILITY OWNER.
7. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES ON THE SITE. DAMAGE TO EXISTING UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. PLUMBING PERMIT AND INSPECTION IS REQUIRED FROM THE CITY OF CINCINNATI PLUMBING DIVISION FOR ALL SANITARY AND STORM PIPING LOCATED ON PRIVATE PROPERTY.
9. PROVIDE MONITORED, CONTROLLED EXCAVATION FOR ALL EXCAVATIONS.
10. THE FOLLOWING IS A LIST OF THE REPRESENTED UTILITY OWNERS ON OR ADJACENT TO THE SITE:

OHIO UTILITIES PROTECTION SERVICE (OUPS)
PO BOX 729
12467 MAHONING AVENUE
NORTH JACKSON, OHIO 44451
(800) 362-2764

DUKE ENERGY CORPORATION (GAS & ELECTRIC)
139 E 4TH ST
CINCINNATI, OH 45202
(513) 544-6900 / 1-800-262-3000

METROPOLITAN SEWER DISTRICT (MSD)
1600 GEST STREET
CINCINNATI, OHIO 45204
(513) 352-4900 / (513) 244-1300

CINCINNATI WATER WORKS (CWW)
4747 SPRING GROVE AVENUE
CINCINNATI, OH 45232
(513) 591-7700

CITY OF CINCINNATI - DOTE
CITY HALL RM. 425
801 PLUM STREET
CINCINNATI, OHIO 45202-1979
(513) 352-3465 / (513) 352-3463

CINCINNATI BELL TELEPHONE
221 E. FOURTH STREET
CINCINNATI, OHIO 45202
(513) 565-2210

CITY OF CINCINNATI
STORMWATER MANAGEMENT UTILITY (SMU)
225 W. GALBRAITH ROAD
CINCINNATI, OHIO 45216
(513) 352-4287

B. EROSION CONTROL (SEE DWG C104 ALSO)

1. FOR ALL AREAS OF DISTURBED EARTH, THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH ODOT ITEMS 670 & 671 AND ODOT STANDARD DRAWINGS DM-4.3 AND DM-4.4.
2. BEST MANAGEMENT PRACTICES: CONSTRUCTION OF THIS PROJECT WILL REQUIRE THE DISTURBANCE OF GREATER THAN ONE ACRE OF GROUND. THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN WILL BE REQUIRED TO DETAIL THE PROJECT SPECIFIC SOIL EROSION PREVENTION MEASURES. IN ADDITION TO THE CURRENT CMS, SS, PLAN NOTES, AND SWPPP STIPULATIONS, THE REGULATIONS AND CONDITIONS ASSOCIATED WITH THE REQUIRED NPDES PERMIT SHALL REQUIRE THE CONTRACTOR'S FULL COMPLIANCE. THE CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMP'S) FOR SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION AND POST-CONSTRUCTION IN ACCORDANCE WITH THE ODOT CMS SECTION 107.19 AND SUPPLEMENTAL SPECIFICATIONS 832 DATED 5/5/09. ANY IN-PLACE EROSION CONTROL PROVISION THAT IS DAMAGED IS TO BE REPLACED/REPAIRED IMMEDIATELY BY THE CONTRACTOR CAUSING THE DAMAGE.

C. BENCHMARKS

1. PROJECT CONTROL SHALL BE PROVIDED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL SET ADDITIONAL BENCHMARKS AS NECESSARY.

D. SAFETY

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ARCHITECT AND ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

DRAWING NOTES:

1. EXISTING STAIRS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
2. EXISTING VINE STREET STAIRS AND BANQUET CENTER TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
3. EXISTING CENTRAL RIVERFRONT GARAGE TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
4. EXISTING BOOTHS AND PARKING EQUIPMENT TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
5. EXISTING ROADWAY TO REMAIN OPEN TO TRAFFIC THROUGHOUT DURATION OF PROJECT. COORDINATE WORK TO MAINTAIN VEHICLE TRAFFIC AND PEDESTRIAN ACCESS. PROVIDE SIGNAGE, PAVEMENT MARKINGS AND TRAFFIC CONTROL MEASURES AS REQUIRED. COORDINATE MAINTENANCE OF TRAFFIC MEASURES WITH CONSTRUCTION MANAGER AND OWNER.
6. EXISTING PAUL BROWN STADIUM TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
7. EXISTING SIDEWALK TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
8. EXISTING PROTECTIVE BARRIERS AT COLUMNS IN PETE ROSE WAY TO REMAIN THROUGHOUT DURATION OF PROJECT.
9. PARKING LOT D: AREA OUTSIDE OF CONSTRUCTION FENCE TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT. COORDINATE USE OF AREA WITHIN CONSTRUCTION FENCE WITH CONSTRUCTION MANAGER.
10. EXTENTS OF NEW PARKING GARAGE STRUCTURE.
11. NEW CURB CUTS SIDEWALK"COMMERCIAL DRIVEWAY" CONSTRUCTION PER CITY OF CINCINNATI STANDARD DRAWINGS.
12. REMOVE EXISTING ISLAND. RESTORE ROADWAY PAVEMENT. COORDINATE WITH CITY DOTE.
13. REMOVE AND REPLACE EXISTING SIDEWALK AS REQUIRED FOR CONSTRUCTION. REMOVE AND REPLACE COMPLETE PANELS ALONG EXISTING CONTROL JOINTS. PROTECT FROM DAMAGE ALL TREES, LIGHT POLES, PULL BOXES, SIGNS, ETC.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
(NON-MEMBERS MUST BE CALLED DIRECTLY)

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
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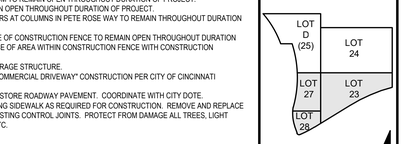
Fax: (513) 241-2981

ISSUES		
12	2/21/2020	BID PACKAGE #6

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/18/2019	BID PACKAGE #2
3	4/1/2019	BID PACKAGE #2
4	4/26/2019	BP#2 PERMIT SET
5	5/10/2019	DESIGN DEVELOPMENT
6	8/9/2019	SCOPING SET
7	8/22/2019	BID PACKAGE #5
8	9/30/2019	BID PACKAGE #3
9	11/4/2019	LOT 28 PILE PERMIT SET
10	12/12/2019	BID PACKAGE #6 - DD PRICING
11	1/31/2020	BID PACKAGE #6 - SCOPING SET



DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

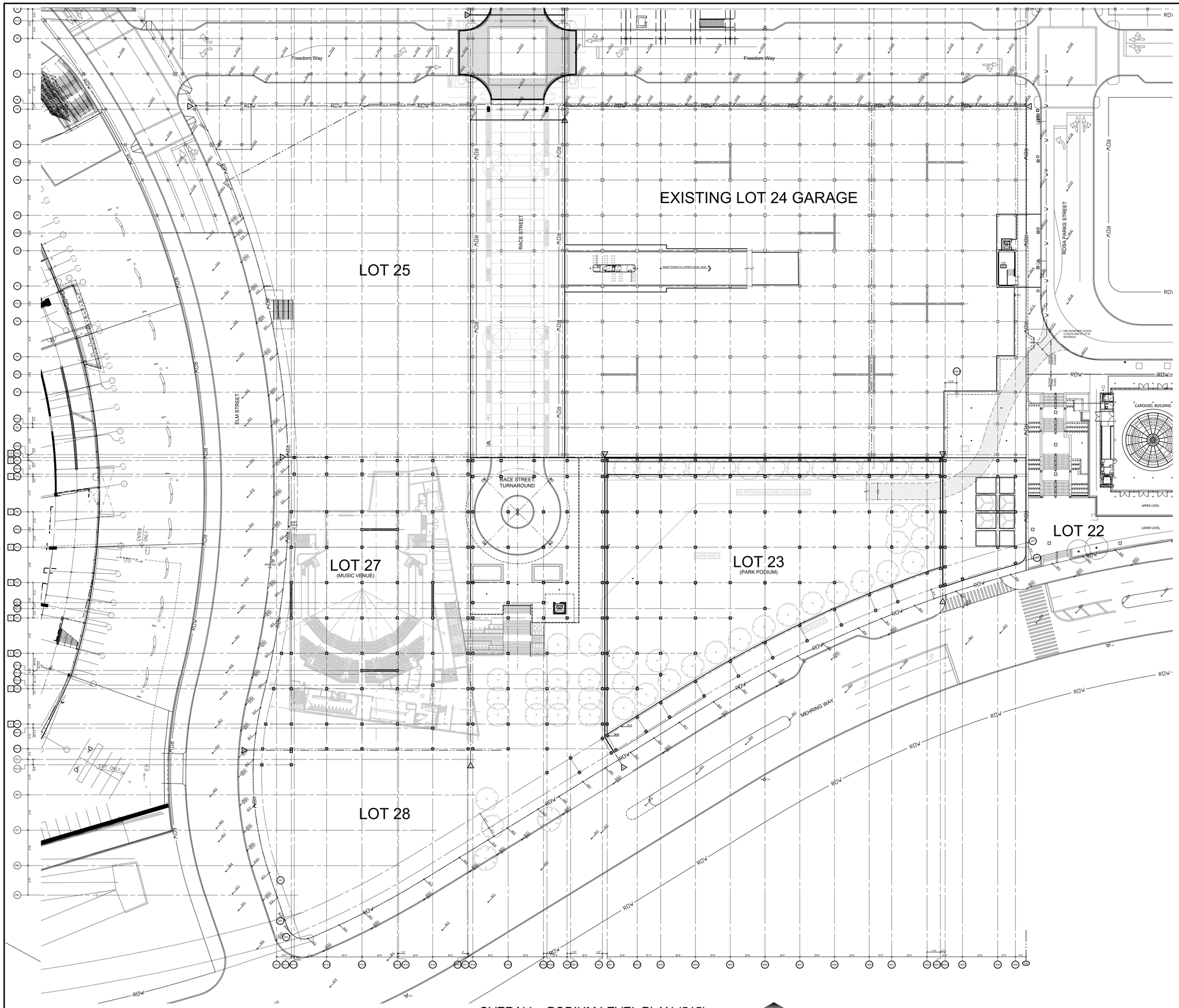
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: SITE PLAN

JOB NUMBER: 98090.38
DATE: 3/4/2019

C101



OVERALL - PODIUM LEVEL PLAN (515)

1" = 30'-0"

NORTH

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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Consulting Engineers
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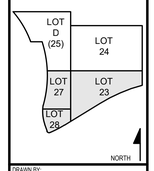
Fax: (513) 241-2981

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/26/2019	PERMIT SET
3	4/12/2019	BID PACKAGE #2
4	4/26/2019	BP#2 PERMIT SET
5	5/10/2019	DESIGN DEVELOPMENT
6	8/9/2019	SCOPING SET
7	8/22/2019	BID PACKAGE #5
8	9/9/2019	BP5 PERMIT SET
9	12/12/2019	BID PACKAGE #6 - DD PRICING
10	1/31/2020	BID PACKAGE #6 - SCOPING SET
11	2/21/2020	BID PACKAGE #6



DRAWN BY: P.A.B.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

THE BANKS PHASE 3B

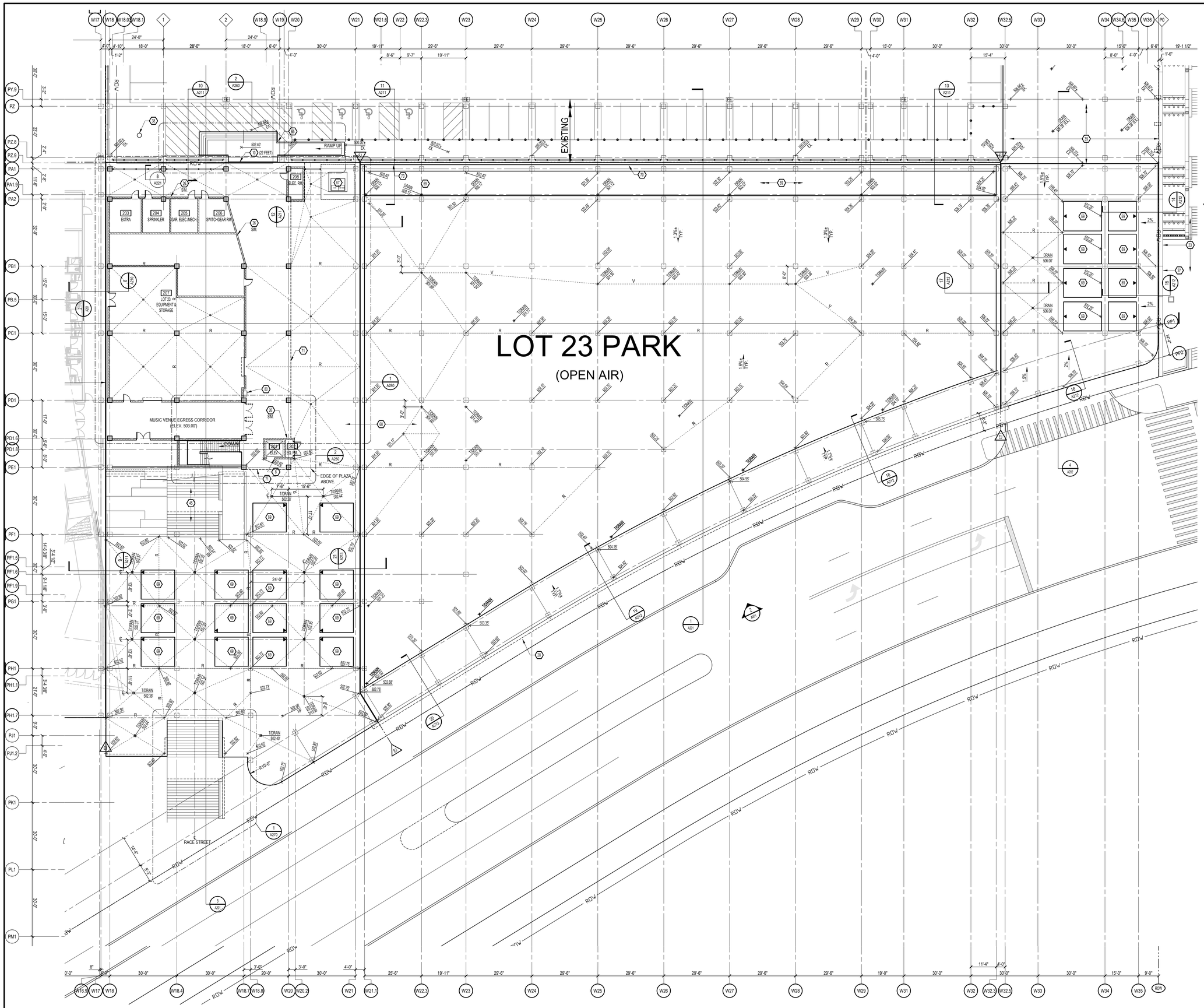
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: OVERALL PODIUM LEVEL (515) PLAN

JOB NUMBER: 98090.38

DATE: 3/4/2019

DRAWING NUMBER: A103



PARK LEVEL PLAN (503-507)

1/16" = 1'-0"

NORTH

FOR REFERENCE ONLY

LEGEND:

- EXISTING COLUMN/WALL
- NEW COLUMN/WALL (REFER TO STRUCTURAL DRAWINGS)
- 503.00 T/STRUCT. SLAB SPOT ELEVATION (U.N.O.)
- FE FIRE EXTINGUISHER AND CABINET
- V VALLEY
- R RIDGE
- PLUMBING RISER (REFER TO PLUMBING DRAWINGS)
- SIDEWALL PENETRATION FOR PIT DRAINAGE (REFER TO PLUMBING DRAWINGS).

GENERAL NOTES:

A. SEE STRUCTURAL DRAWINGS FOR TYPICAL CONCRETE STRUCTURE INFORMATION (COLUMNS, WALLS, SLABS, ETC.).
B. AT SUPPORTED SLABS, CREATE DRAINAGE SADDLES BY THICKENING SLAB. SEE NOTE 16 ALSO FOR DRAINAGE SADDLE LOCATIONS. CREATE ALL OTHER DRAINAGE SLOPES BY SLOPING SUBGRADE AND FORMWORK.
C. PAINT ALL SOFFITS/CEILINGS, DROPS, BEAM SURFACES, AND ADJACENT ITEMS PER SPEC SECTION 099100 AND DETAILS ON DRAWING A221.

DRAWING NOTES: (APPLIES TO DRAWINGS A101A THRU A103B).

1. CONCRETE COLUMN.
2. CONCRETE SHEARWALL.
3. NOT USED.
4. BOLLARDS. REFER TO DETAIL 1 & 2/A221. TYPICAL AT PEDESTRIAN AISLES, AT STAIR/ELEVATOR TOWER, ETC.
5. NOT USED.
6. NEW MANHOLE - REFER TO CIVIL AND MEP DRAWINGS.
7. NEW PERIMETER RAILING. REFER TO DETAILS 3, 4, & 5/A221.
8. ELEVATOR SHAFT TO PODIUM LEVEL (2-HR RATED).
9. STAIR STRUCTURE TO PARK LEVEL.
10. WINGED COMPRESSION JOINT SEAL (FULL LENGTH OF EXPANSION JOINT). REFER TO SECTION 21/A222.
11. GARAGE DRIVE AISLE.
12. DRAIN. REFER TO PLUMBING DRAWINGS.
13. PAINTED GARAGE STRIPING. SEE DETAILS 8/A221 AND 9/A221.
14. PEDESTRIAN WALKWAY.
15. DRAINAGE RIDGE LINE.
16. DRAINAGE VALLEY LINE - (SEE GENERAL NOTE B ABOVE ALSO).
17. EXISTING MSE WALL.
18. 6" WIDE x 24" DEEP CONCRETE CURB. FILL 4'± WIDE AREA BETWEEN CURB AND SLAB EDGE WITH RIP-RAP SALVAGED FROM SITE DEMO. SEE SECTIONS 6&7/A210.
19. EXISTING CATCH BASIN - REFER TO CIVIL AND MEP DRAWINGS.
20. NEW PARKING CONTROL ISLAND. REFER TO ENLARGED PLANS 1/A223 & 2/A224.
21. NOT USED.
22. EXISTING CWW INSULATED 12" WATER MAIN RISER IN FENCED WALL ALCOVE. PROTECT AND MAINTAIN.
23. EXISTING LOT 22 SITE (CINCINNATI PARKS VINE STREET STAIR AND BANQUET CENTER).
24. NEW TRAFFIC SIGNAL WORK. REFER TO CITY DOTE DRAWINGS.
25. ADJUST TOP OF EXISTING MANHOLE TO NEW SLAB ELEVATION.
26. MECHANICAL/ELECTRICAL ROOM (ALTERNATING SMOOTH AND SPLIT-FACE CMU WALLS SIMILAR TO TYPICAL EXISTING CRG M/E ROOMS).
27. EXISTING CONCRETE WALL.
28. CONCRETE WALL. CLADDING BY OTHERS. REFER TO SECTION 19/A210.
29. REMOVE EXISTING STREET LIGHT POLE, BASE, AND PULL-BOX. TURN OVER TO CITY DOTE. REWORK POWER TO ADJACENT STREET LIGHTS.
30. NOT USED.
31. RACE STREET EXTENSION. REFER TO CIVIL/STREET DRAWINGS BY BURGESS & NIPLE.
32. REMOVE EXISTING TREE AND TREE PIT. COORDINATE WITH CITY DOTE.
33. EXISTING LIGHT POLE AND PULL-BOX TO REMAIN.
34. NOT USED.
35. EXISTING TREE AND TREE PIT TO REMAIN.
36. EXISTING RACE STREET STRUCTURE.
37. EXISTING ROSA PARKS STREET SIDEWALK.
38. EXISTING FIRE HYDRANT.
39. EXISTING LOT 24 SOUTHEAST PLAZA STRUCTURE. VERIFY ALL SLAB AND DRAIN ELEVATIONS PRIOR TO FORMING AND POURING ADJACENT NEW STRUCTURE. REPORT ANY DISCREPANCIES TO CONSTRUCTION MANAGER AND ARCHITECT.
40. NOT USED.
41. PLUMBING RISER (REFER TO PLUMBING DRAWINGS).
42. OVERBUILD GROUNDING RISER (REFER TO DRAWING EG100).
43. LOT 27 PODIUM STRUCTURE AND MUSIC VENUE (REFER TO MUSIC VENUE DRAWINGS).
44. NOT USED.
45. PARK STAIR. REFER TO ENLARGED PLAN.
46. STAIR PLANTERS.
47. NEW DRIVEWAY.
48. REMOVE AND REPLACE BACK OF EXISTING SIDEWALK (5'±).
49. 5" THICK UNREINFORCED CONCRETE SIDEWALK EXTENSION.
50. EXISTING FIRE HYDRANT RISER. PROTECT DURING CONSTRUCTION.
51. EXISTING ROSA PARKS STREET CURB TO REMAIN.
52. REPLACE SIDEWALK AS NEEDED TO ACCOMODATE NEW DRIVEWAY.
53. VARIABLE HEIGHT CURB (FLUSH TO 6" HIGH).
54. PAINT CEILING OF LOWER LEVEL. REFER TO DETAILS 11-14 ON DRAWING A221 AND SECTION 099100.
55. NEW CATCH BASIN. REFER TO PLUMBING DRAWINGS.
56. NEW 5" THICK CONCRETE SIDEWALK.
57. NEW ELECTRICAL PULL-BOX FOR EXISTING CONDUITS UNDER ELM STREET. SET TOP OF LID AT FINISHED FLOOR ELEVATION. PROVIDE CITY OF CINCINNATI STANDARD PULLBOX PER DRAWING (ES-2-1) TYPE D WITH STREET TYPE LID AND FREE DRAINAGE GRAVEL UNDER BASE OR EQUIVALENT PRODUCT.
58. NEW CONCRETE STAIR AND LANDING.
59. NEW CONCRETE STAIR.
60. REMOVE EXISTING ASPHALT PAVING, CONCRETE CURBS AND ISLANDS, SITE LIGHTING, ETC. PRESERVE EXISTING TREES. LANDSCAPE ENTIRE AREA PER PROPOSED LANDSCAPE PLAN (TO BE ISSUED LATER).
61. RESURFACE LOT D ASPHALT PAVEMENT AREA WITHIN CONSTRUCTION FENCE (AND ANY ADJACENT AREAS OUTSIDE THE FENCE LINE DAMAGED DUE TO CONSTRUCTION). RESTRIPE PARKING LAYOUT.
62. REMOVE PORTION OF EXISTING ISLAND AND REPLACE WITH ROADWAY PAVEMENT. COORDINATE WITH CITY DOTE.
63. BIKE RACK (14 TOTAL): U-BIKE RACK (STAINLESS STEEL, SURFACE MOUNTED) BY THE PARK CATALOG OR EQUIVALENT.
64. EV CHARGING STATION (3 TOTAL).
65. CONCRETE STAIR & RAMP OVERBUILD (WITH STAINLESS STEEL HANDRAIL) IN LOT 24 GARAGE TO PROVIDE PEDESTRIAN ACCESS TO LOT 23.
66. NOT USED.
67. LOT 23 DUKE TRANSFORMER (BY DUKE), ON CONCRETE PAD/PEDESTAL (BY THIS PROJECT).
68. SPOT ELEVATIONS ARE TOP OF STRUCTURAL SLAB ELEVATIONS, UNLESS NOTED OTHERWISE.
69. TREE PIT/PLANTER. SLOPE BOTTOM OF TREE PIT TO DRAIN (1/8" PER FOOT TYPICAL). REFER TO STRUCTURAL AND PLUMBING DRAWINGS ALSO.
70. NORTH WALL OF TREE PIT WITH 42" MINIMUM HIGH GALVANIZED STEEL GUARDRAIL. REFER TO ELEVATION: 22/A222 AND SECTIONS: 23/A222 AND 24/A222.
71. STEP IN STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS.
72. ELEVATOR ROOF/CANOPY ABOVE.
73. GUARDRAIL ALONG EAST SIDE OF PLAZA.
74. FUTURE PERGOLA ABOVE (IN FUTURE BID PACKAGE).
75. FLUSH CONCRETE CURB WITH FLUSH DECORATIVE PAVERS INSIDE, OVER DRAINAGE BOARD & WATERPROOFING.
76. 5" HIGH-PERFORMANCE CONCRETE ROADWAY TOPPING SLAB (PER CITY DOTE STANDARDS) OVER DRAINAGE BOARD & WATERPROOFING.
77. 9" WIDE CONCRETE CURB WITH CONCRETE TOPPING SLAB OUTSIDE OVER DRAINAGE BOARD & WATERPROOFING.
78. NOT USED.
79. RACE STREET TURNAROUND STREET LIGHT AND PULL BOX. REFER TO C800 AND C801.
80. PAY-ON-FOOT-STATION (APPROX. 28"Wx20.5"Dx66"H).
81. FACE OF CURB LOCATION. REFER TO PODIUM LEVEL PLAN.
82. STREET LIGHT POLE FOUNDATION AND ASSOCIATED PULL-BOX. REFER TO STRUCTURAL DRAWINGS.
83. SCUPPER DRAIN. REFER TO C400 AND C603 FOR MORE INFORMATION.

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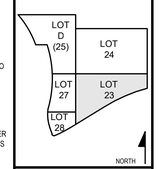
Fax: (513) 241-2981

ISSUES

1	8/10/2019	DESIGN DEVELOPMENT
2	8/22/2019	BID PACKAGE #1
3	9/20/2019	BPS PERMIT SET
4	11/27/2019	BULLETIN #3
5	12/12/2019	BID PACKAGE #5 - DD PRICING
6	12/18/2019	BULLETIN #5
7	12/20/2019	BULLETIN #6
8	12/21/2020	BULLETIN #8
9	1/31/2020	BID PACKAGE #6 - SCOPING SET
10	2/21/2020	BID PACKAGE #5



DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

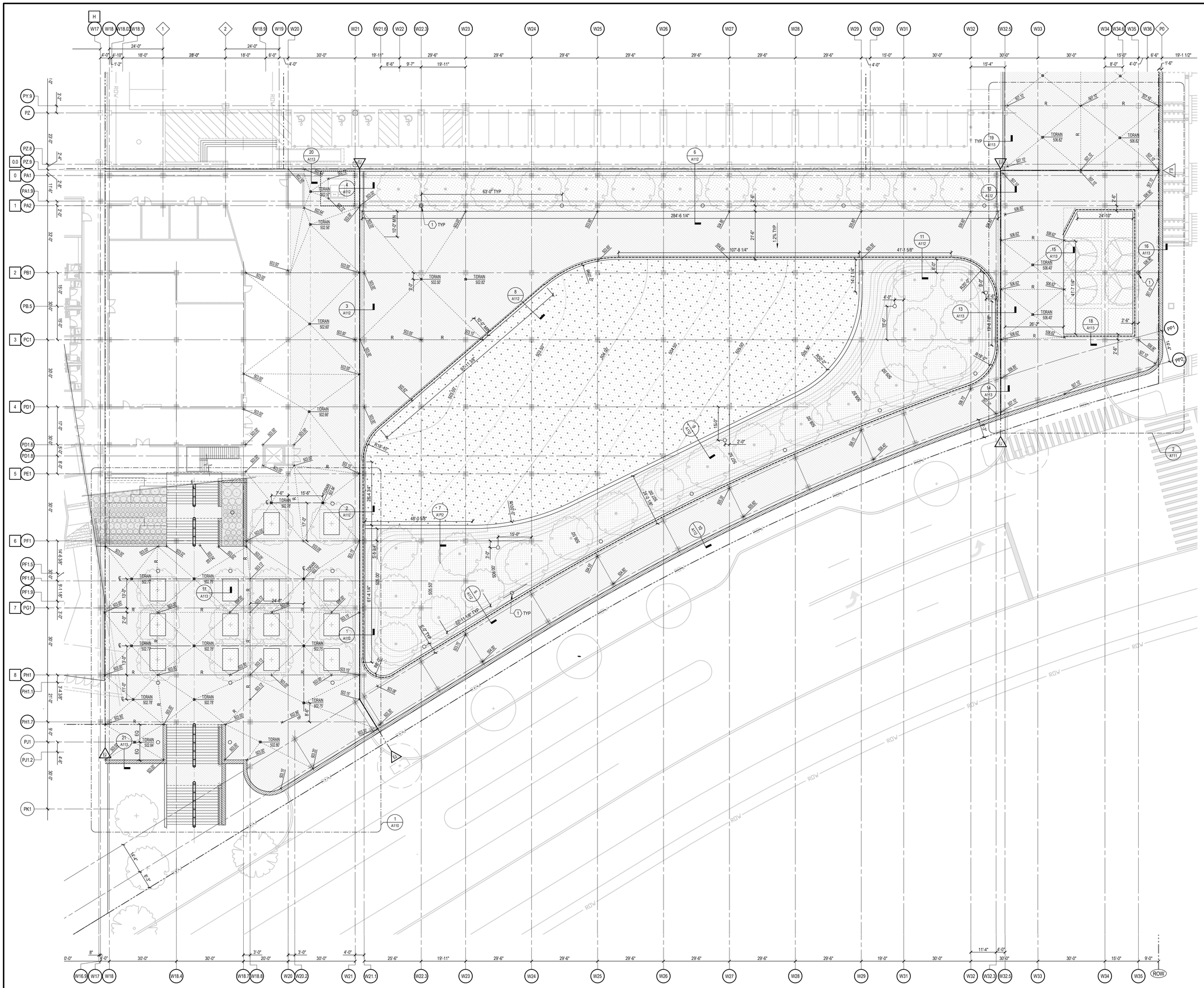
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PARK LEVEL (503-507) PLAN

JOB NUMBER 98090.38
DATE 8/2/2019

DRAWING NUMBER
A102B



LEGEND:

- CONCRETE PAVING
- GRANITE PAVING
- GRANITE
- SPORTS TURF
- NATURAL TURF
- GROUND COVER
- 503.5 T/GRADING SPOT ELEVATION (U.N.O.)
- VALLEY
- R RIDGE
- AREA DRAIN
- SLOT DRAIN
- LIGHT POLE
- EJ EXPANSION JOINT

GENERAL NOTES:

A. REFER TO LANDSCAPE DRAWINGS FOR PLANTINGS, SPORTS TURF, PAVEMENT PATTERNS AND SITE FURNISHINGS.

DRAWING NOTES:

1. LIGHT POLE BASE: REFER TO DRAWING S002 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2.

PARK LEVEL (503-507) LAYOUT, MATERIAL & GRADING PLAN

1/16" = 1'-0"

NORTH

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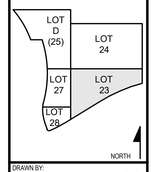
ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	1/10/20	BID PACKAGE #6 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

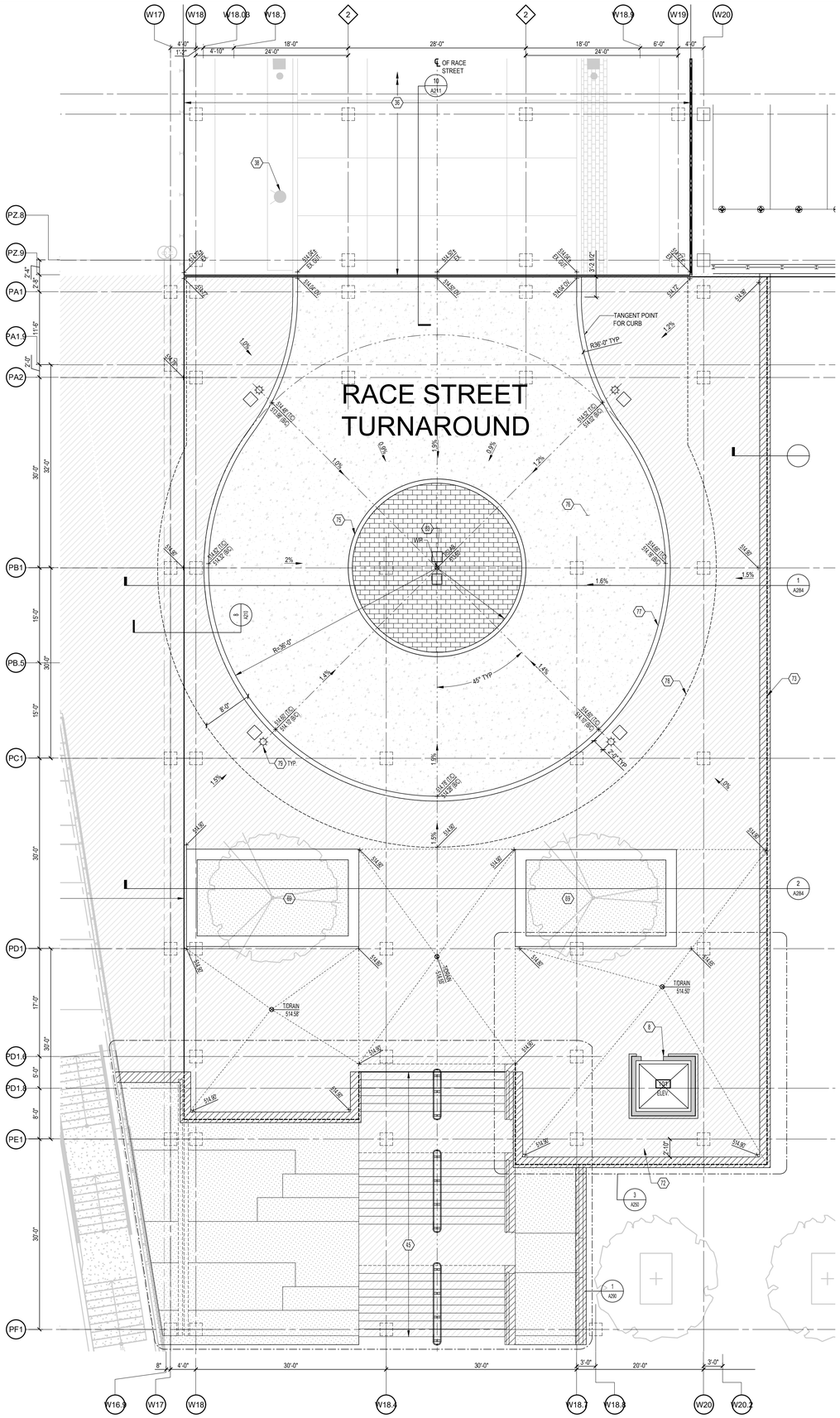
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PARK LEVEL (503 - 507) LAYOUT, MATERIAL & GRADING PLAN

JOB NUMBER 98090.38
DATE 12/12/2019

DRAWING NUMBER
A102B-P

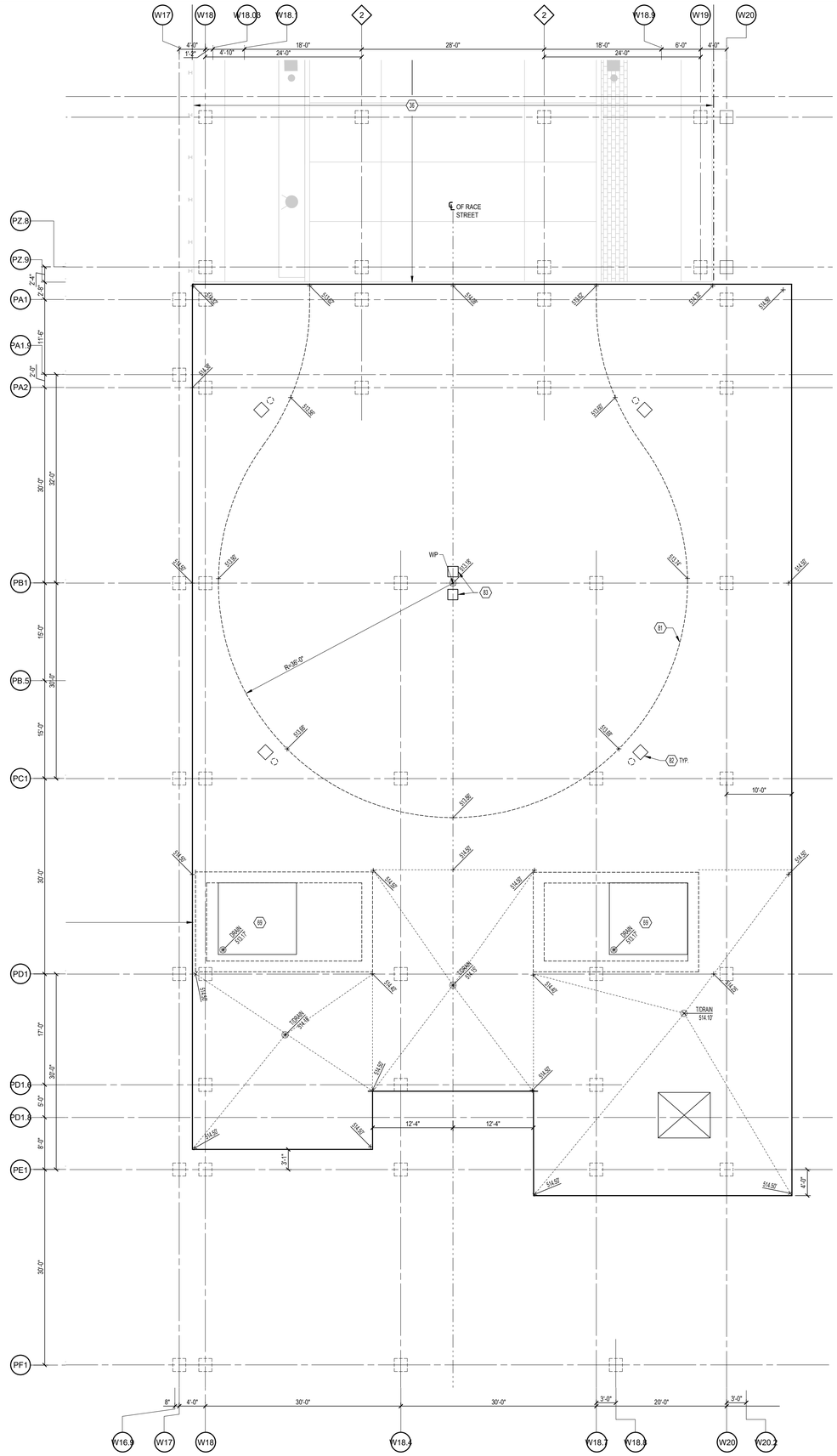


NOTE: ELEVATIONS SHOWN ARE TOP OF THE PAVEMENT/TOPPING SLAB ELEVATIONS.

PODIUM LEVEL PLAN (515)

1/8" = 1'-0"

NORTH



NOTE: ELEVATIONS SHOWN ARE TOP OF CONCRETE STRUCTURAL SLAB ELEVATIONS.

PODIUM SUB-STRUCTURE PLAN

1/8" = 1'-0"

NORTH

LEGEND:

- CONCRETE PAVING
- CONCRETE PAVING CARPET
- GRANITE
- SPORTS TURF
- NATURAL TURF
- GROUND COVER
- EXISTING COLUMN/WALL
- NEW COLUMN/WALL (REFER TO STRUCTURAL DRAWINGS)
- 580.00 T/STRUCT. SLAB SPOT ELEVATION (U.N.O.)
- FE FIRE EXTINGUISHER AND CABINET
- V VALLEY
- R RIDGE
- PLUMBING RISER (REFER TO PLUMBING DRAWINGS)
- AREA DRAIN
- SLOT DRAIN
- LIGHT TYPE 1
- LIGHT TYPE 2
- LIGHT TYPE 3
- LIGHT TYPE 4
- EJ EXPANSION JOINT

GENERAL NOTES:

A. SEE STRUCTURAL DRAWINGS FOR TYPICAL CONCRETE STRUCTURE INFORMATION (COLUMNS, WALLS, SLABS, ETC.).
B. AT SUPPORTED SLABS, CREATE DRAINAGE SADDLES BY THICKENING SLAB. SEE NOTE 16 ALSO FOR DRAINAGE SADDLE LOCATIONS. CREATE ALL OTHER DRAINAGE SLOPES BY SLOPING SUBGRADE AND FORMWORK.
C. PAINT ALL SOFFITS/CEILINGS, DROPS, BEAM SURFACES, AND ADJACENT ITEMS PER SPEC SECTION 099100 AND DETAILS ON DRAWING A221.
D. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SITE FURNISHINGS, AND JOINT/SCORING PATTERNS.

DRAWING NOTES: (APPLIES TO DRAWING A101A THRU A103B)

1. CONCRETE COLUMN.
2. CONCRETE SHEARWALL.
3. NOT USED.
4. BOLLARDS. REFER TO DETAIL 1 & 2/A221. TYPICAL AT PEDESTRIAN AISLES, AT STAIR/ELEVATOR TOWER, ETC.
5. NOT USED.
6. NEW MANHOLE - REFER TO CIVIL AND MEP DRAWINGS.
7. NEW PERIMETER RAILING. REFER TO DETAILS 3, 4, & 5/A221.
8. ELEVATOR SHAFT TO PODIUM LEVEL (2-HR RATED).
9. STAIR STRUCTURE TO PARK LEVEL.
10. WINGED COMPRESSION JOINT SEAL (FULL LENGTH OF EXPANSION JOINT). REFER TO SECTION 21/A222.
11. GARAGE DRIVE AISLE.
12. DRAIN. REFER TO PLUMBING DRAWINGS.
13. PAINTED GARAGE STRIPING. SEE DETAILS 8/A221 AND 9/A221.
14. PEDESTRIAN WALKWAY.
15. DRAINAGE RIDGE LINE.
16. DRAINAGE VALLEY LINE - (SEE GENERAL NOTE B ABOVE ALSO).
17. EXISTING MSE WALL.
18. 8" WIDE x 24" DEEP CONCRETE CURB. FILL 4'± WIDE AREA BETWEEN CURB AND SLAB EDGE WITH RIP-RAP SALVAGED FROM SITE DEMO. SEE SECTIONS 6&7/A210.
19. EXISTING CATCH BASIN - REFER TO CIVIL AND MEP DRAWINGS.
20. NEW PARKING CONTROL ISLAND. REFER TO ENLARGED PLANS 1/A223 & 2/A224.
21. NOT USED.
22. EXISTING CWW INSULATED 12" WATER MAIN RISER IN FENCED WALL ALCOVE. PROTECT AND MAINTAIN.
23. EXISTING LOT 22 SITE (CINCINNATI PARKS VINE STREET STAIR AND BANQUET CENTER).
24. NEW TRAFFIC SIGNAL WORK. REFER TO CITY DOTE DRAWINGS.
25. ADJUST TOP OF EXISTING MANHOLE TO NEW SLAB ELEVATION.
26. MECHANICAL/ELECTRICAL ROOM (ALTERNATING SMOOTH AND SPLIT-FACE CMU WALLS SIMILAR TO TYPICAL EXISTING CRG M/E ROOMS).
27. EXISTING CONCRETE WALL.
28. CONCRETE WALL. CLADDING BY OTHERS. REFER TO SECTION 19/A210.
29. REMOVE EXISTING STREET LIGHT POLE, BASE, AND PULL-BOX. TURN OVER TO CITY DOTE. REWORK POWER TO ADJACENT STREET LIGHTS.
30. NOT USED.
31. RACE STREET EXTENSION. REFER TO CIVIL/STREET DRAWINGS BY BURGESS & NIPLE.
32. REMOVE EXISTING TREE AND TREE PIT. COORDINATE WITH CITY DOTE.
33. EXISTING LIGHT POLE AND PULL-BOX TO REMAIN.
34. NOT USED.
35. EXISTING TREE AND TREE PIT TO REMAIN.
36. EXISTING RACE STREET STRUCTURE.
37. EXISTING ROSA PARKS STREET SIDEWALK.
38. EXISTING FIRE HYDRANT.
39. EXISTING LOT 24 SOUTHEAST PLAZA STRUCTURE. VERIFY ALL SLAB AND DRAIN ELEVATIONS PRIOR TO FORMING AND POURING ADJACENT NEW STRUCTURE. REPORT ANY DISCREPANCIES TO CONSTRUCTION MANAGER AND ARCHITECT.
40. NOT USED.
41. PLUMBING RISER (REFER TO PLUMBING DRAWINGS).
42. OVERBUILD GROUNDING RISER (REFER TO DRAWING EG100).
43. LOT 27 PODIUM STRUCTURE AND MUSIC VENUE (REFER TO MUSIC VENUE DRAWINGS).
44. NOT USED.
45. PARK STAIR. REFER TO ENLARGED PLAN.
46. STAIR PLANTERS.
47. NEW DRIVEWAY.
48. REMOVE AND REPLACE BACK OF EXISTING SIDEWALK (5'±).
49. 5" THICK UNREINFORCED CONCRETE SIDEWALK EXTENSION.
50. EXISTING FIRE HYDRANT RISER. PROTECT DURING CONSTRUCTION.
51. EXISTING ROSA PARKS STREET CURB TO REMAIN.
52. NOT USED.
53. NOT USED.
54. PAINT CEILING OF LOWER LEVEL. REFER TO DETAILS 11-14 ON DRAWING A221 AND SECTION 099100.
55. NEW CATCH BASIN. REFER TO PLUMBING DRAWINGS.
56. NEW 5" THICK CONCRETE SIDEWALK.
57. NOT USED.
58. NEW CONCRETE STAIR AND LANDING.
59. NEW CONCRETE STAIR.
60. REMOVE EXISTING ASPHALT PAVING, CONCRETE CURBS AND ISLANDS, SITE LIGHTING, ETC. PRESERVE EXISTING TREES. LANDSCAPE ENTIRE AREA PER PROPOSED LANDSCAPE PLAN (TO BE ISSUED LATER).
61. RESURFACE LOT D ASPHALT PAVEMENT AREA WITHIN CONSTRUCTION FENCE (AND ANY ADJACENT AREAS OUTSIDE THE FENCE LINE DAMAGED DUE TO CONSTRUCTION). RESTRIPE PARKING LAYOUT.
62. REMOVE PORTION OF EXISTING ISLAND AND REPLACE WITH ROADWAY PAVEMENT. COORDINATE WITH CITY DOTE.
63. BIKE RACK (14 TOTAL): U-BIKE RACK (STAINLESS STEEL, SURFACE MOUNTED) BY THE PARK CATALOG OR EQUIVALENT.
64. EV CHARGING STATION (3 TOTAL).
65. CONCRETE STAIR & RAMP OVERBUILD (WITH STAINLESS STEEL HANDRAIL) IN LOT 24 GARAGE TO PROVIDE PEDESTRIAN ACCESS TO LOT 23.
66. NOT USED.
67. LOT 23 DUKE TRANSFORMER (BY DUKE), ON CONCRETE PAD/PEDESTAL (BY THIS PROJECT).
68. SPOT ELEVATIONS ARE TOP OF STRUCTURAL SLAB ELEVATIONS, UNLESS NOTED OTHERWISE.
69. TREE PIT/PLANTER. SLOPE BOTTOM OF TREE PIT TO DRAIN (1/8" PER FOOT TYPICAL). REFER TO STRUCTURAL AND PLUMBING DRAWINGS.
70. NORTH WALL OF TREE PIT WITH 42" MINIMUM HIGH GALVANIZED STEEL GUARDRAIL.
71. STEP IN STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS.
72. ELEVATOR ROOF/CANOPY ABOVE.
73. GUARDRAIL ALONG EAST SIDE OF PLAZA.
74. FUTURE PERGOLA ABOVE (IN FUTURE BID PACKAGE).
75. FLUSH CONCRETE CURB WITH FLUSH DECORATIVE PAVERS INSIDE, OVER DRAINAGE BOARD & WATERPROOFING.
76. 5" HIGHPERMANCE CONCRETE ROADWAY TOPPING SLAB (PER CITY DOTE STANDARDS) OVER DRAINAGE BOARD & WATERPROOFING.
77. 9" WIDE CONCRETE CURB WITH CONCRETE TOPPING SLAB OUTSIDE OVER DRAINAGE BOARD & WATERPROOFING.
78. RIGHT-OF-WAY LINE (SHOWN FOR REFERENCE ONLY)
79. RACE STREET TURNAROUND STREET LIGHT AND PULL BOX. REFER TO C800 AND C801.
80. PAY-ON-FOOT-STATION (APPROX. 28"Wx20.5"Dx66"H).
81. FACE OF CURB LOCATION. REFER TO PODIUM LEVEL PLAN.
82. STREET LIGHT POLE FOUNDATION AND ASSOCIATED PULL-BOX. REFER TO STRUCTURAL DRAWINGS.
83. SCUPPER DRAIN. REFER TO C400 AND C603 FOR MORE INFORMATION.

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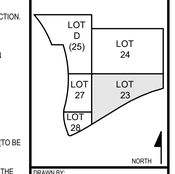
ISSUES		
1	5/10/2019	DESIGN DEVELOPMENT
2	6/28/2019	50% CD'S
3	8/22/2019	BID PACKAGE #5
4	9/9/2019	BIDS PERMIT SET
5	9/24/2019	ADDENDUM #2
6	12/12/2019	BID PACKAGE #6 - DD PRICING
7	12/16/2019	BULLETIN #5
8	12/17/2019	BULLETIN #6
9	1/31/2020	BID PACKAGE #6 - SCOPING SET
10	2/21/2020	BID PACKAGE #6



DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

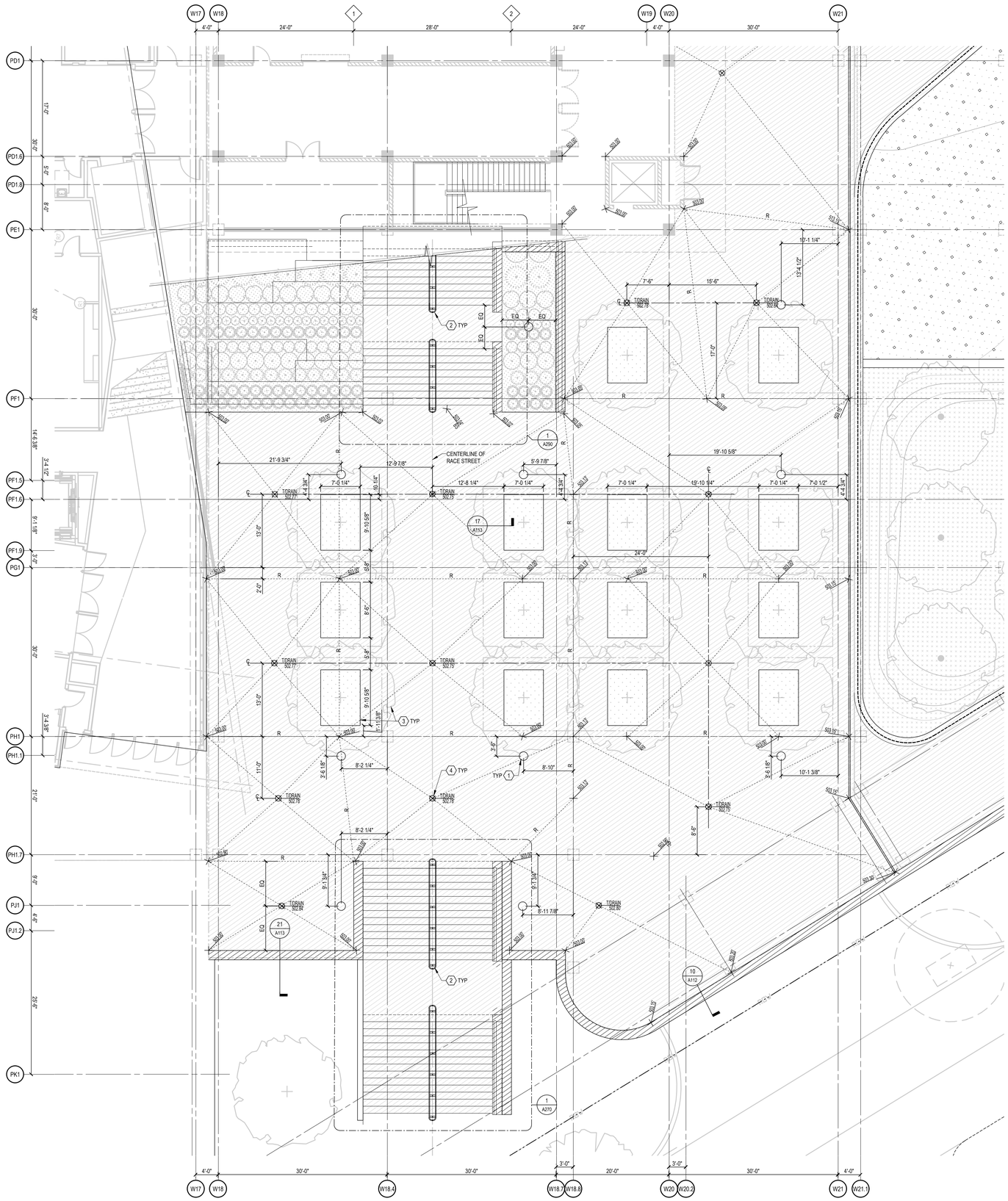
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PODIUM LEVEL (515) PLAN

JOB NUMBER: 98090.38
DATE: 7/2/2019

DRAWING NUMBER: A103B



PARK LEVEL (503) ENLARGED PLAN

1/8" = 1'-0"

NORTH

LEGEND:

- CONCRETE PAVING
- GRANITE PAVING
- GRANITE
- SPORTS TURF
- NATURAL TURF
- GROUND COVER
- 50.00 T/GRADING SPOT ELEVATION (U.N.O.)
- VALLEY
- R RIDGE
- AREA DRAIN
- SLOT DRAIN
- LIGHT POLE
- EJ EXPANSION JOINT

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SPORTS TURF, PAVEMENT PATTERNS AND SITE FURNISHINGS.

DRAWING NOTES:

1. LIGHT POLE BASE. REFER TO DRAWING S002 AND ELECTRICAL DRAWING FOR MORE INFORMATION.
2. STAIR HANDRAIL. REFER TO DRAWING A114 FOR MORE INFORMATION.
3. PLANT BED AND PLANTINGS. REFER TO LANDSCAPE DRAWINGS FOR MORE INFORMATION.
4. SURFACE DRAIN. REFER TO DRAWING A102B AND PLUMBING DRAWINGS FOR MORE INFORMATION.

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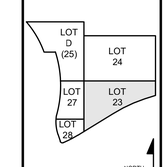
ISSUES		
1	11/27/2019	BULLETIN #4
1	11/27/2019	DD PRICING
2	1/31/2020	BID PACKAGE #5 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

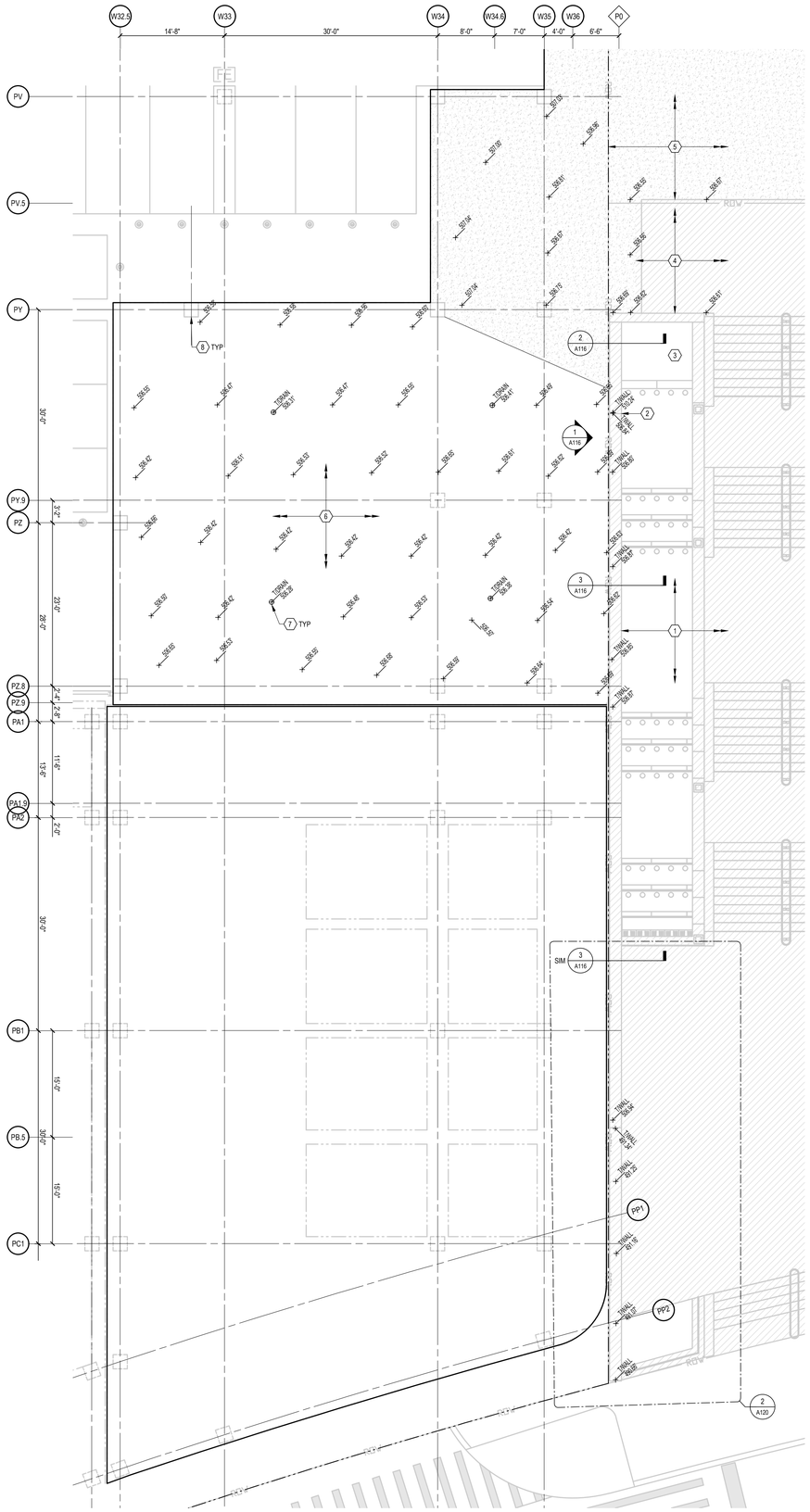
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PARK LEVEL (503) ENLARGED PLAN

JOB NUMBER 98090.38
DATE

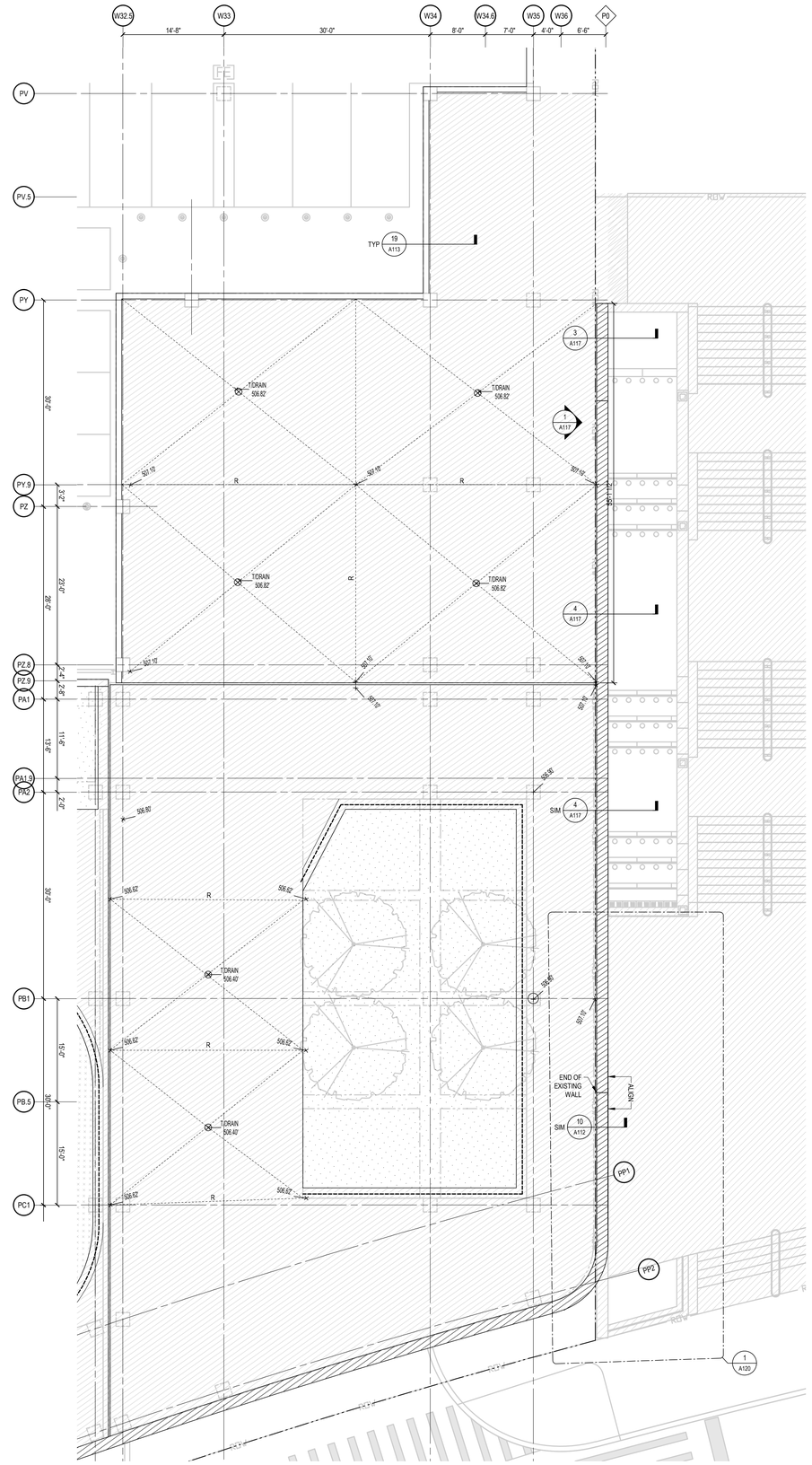
DRAWING NUMBER
A110



1 A111 **PARK LEVEL (503) DEMOLITION PLAN**

1/8" = 1'-0"

NORTH



2 A111 **PARK LEVEL (503) ENLARGED PLAN**

1/8" = 1'-0"

NORTH

LEGEND:

- CONCRETE PAVING
- GRANITE PAVING
- GRANITE
- SPORTS TURF
- NATURAL TURF
- GROUND COVER
- 503.75 T/GRADING SPOT ELEVATION (U.N.O.)
- VALLEY
- R RIDGE
- AREA DRAIN
- SLOT DRAIN
- LIGHT POLE
- EJ EXPANSION JOINT

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SPORTS TURF, PAVEMENT PATTERNS AND SITE FURNISHINGS.

DRAWING NOTES:

1. EXISTING VINE STREET STAIR (LOT 22) CONSTRUCTION.
2. EXISTING LOT 22 DONOR WALL
3. EXISTING UPPER FOUNTAIN BASIN.
4. EXISTING GRANITE PLAZA PAVEMENT.
5. EXISTING CONCRETE PAVEMENT.
6. EXISTING LOT 24 CONCRETE STRUCTURE (ELEV. 506.5±).
7. EXISTING BI-LEVEL DRAIN. ADJUST UPPER (GRATE) ELEVATION TO PROPOSED ELEVATIONS ON PLAN 2/A111.
8. EXISTING CONCRETE COLUMN STUB (TOP OF CONCRETE 510.0'±, TOP OF REBAR 515.0'±).
9. EAST END OF NEW LOT 23 STRUCTURE (UNDER CONSTRUCTION).
10. REMOVE EXISTING CONCRETE TOPPING SLAB AND DRAINAGE BOARD. PROTECT EXISTING WATERPROOFING.

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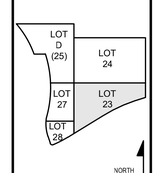
ISSUES		
1	12/12/2019	BID PACKAGE #5 - DD PRICING
2	1/17/2020	BID PACKAGE #5 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

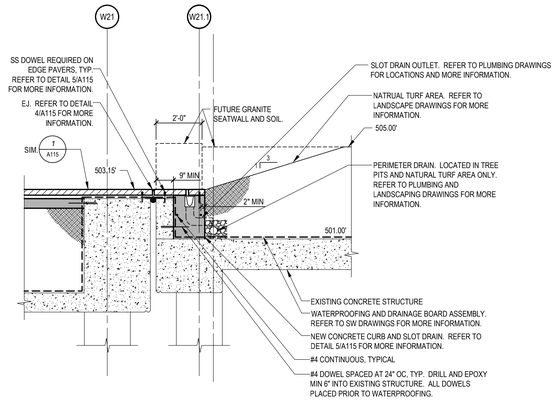
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

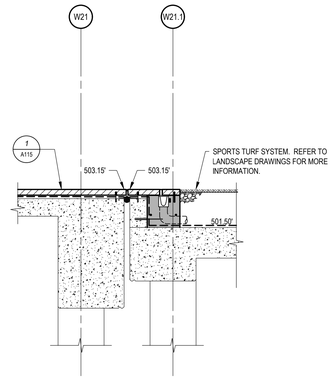
DRAWING TITLE: PARK LEVEL (503) ENLARGED PLAN

JOB NUMBER: 98090.38
DATE: 12/12/2019

DRAWING NUMBER: A111

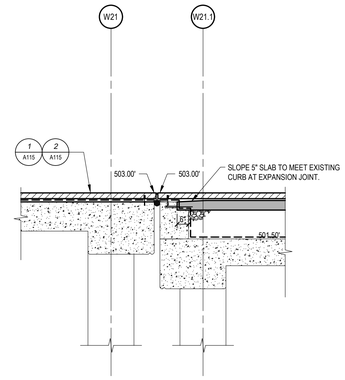


1 A112 **SECTION** 3/8"=1'-0"



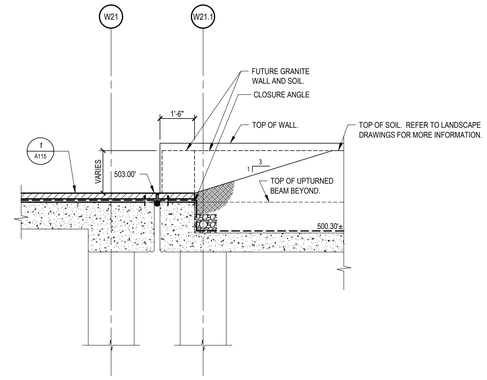
2 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



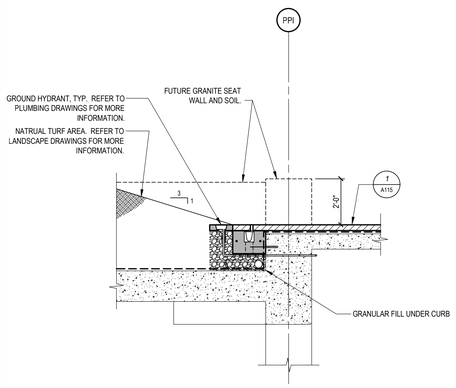
3 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



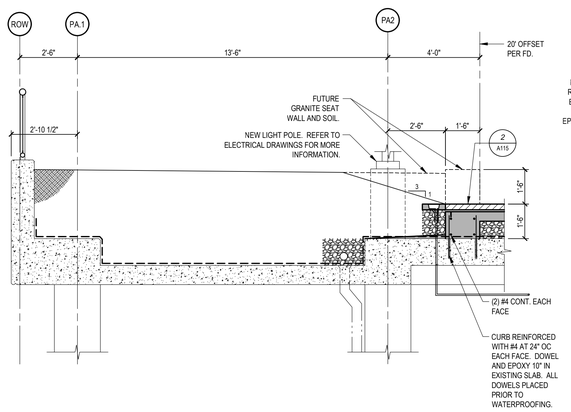
4 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



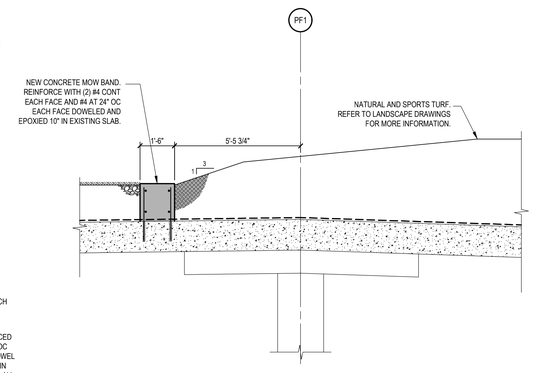
5 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



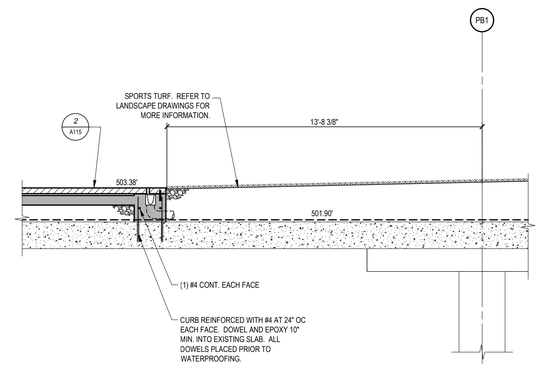
6 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



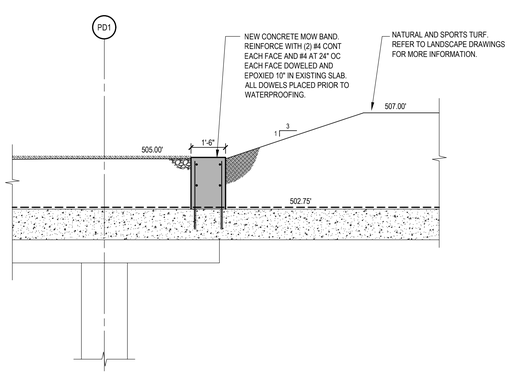
7 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



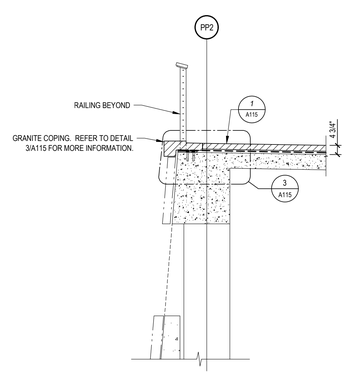
8 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



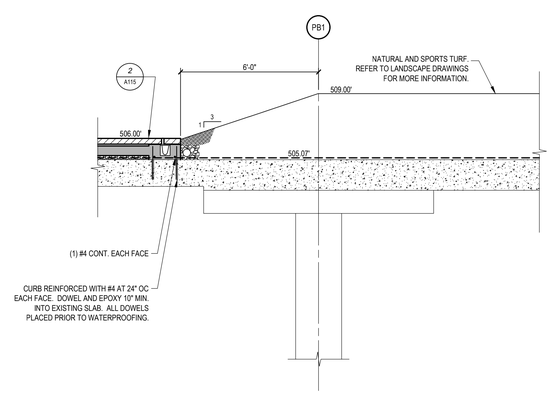
9 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



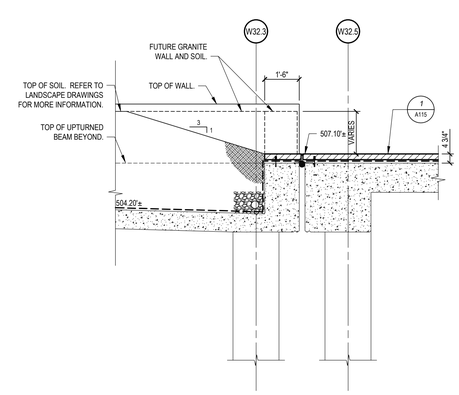
10 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



11 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



12 A112 **SECTION** 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES

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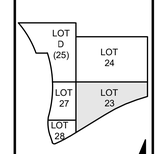
ISSUES		
1	12/13/2019	BID PACKAGE #8 - DD PRICING
2	1/17/2020	BID PACKAGE #5 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

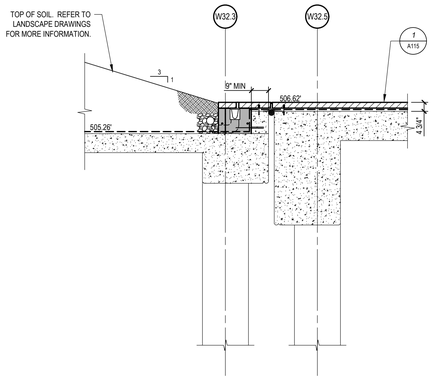
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PARK SECTIONS

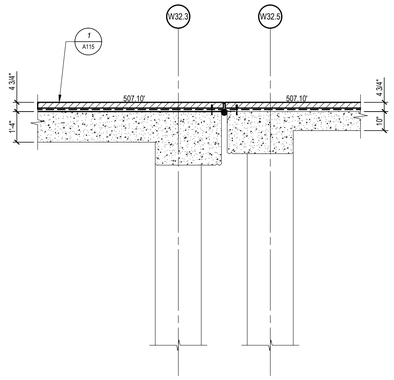
JOB NUMBER: 98090.38
DATE: 12/10/2019

DRAWING NUMBER: A112



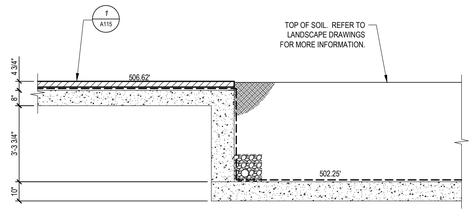
13 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



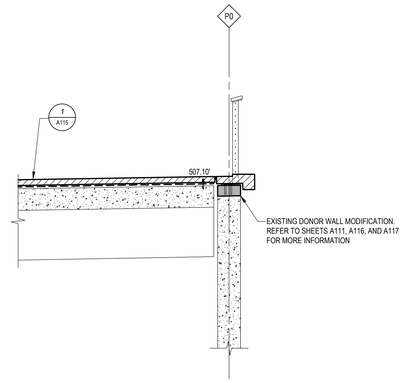
14 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



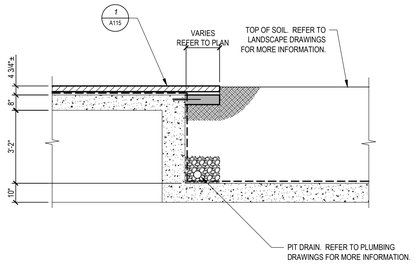
15 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



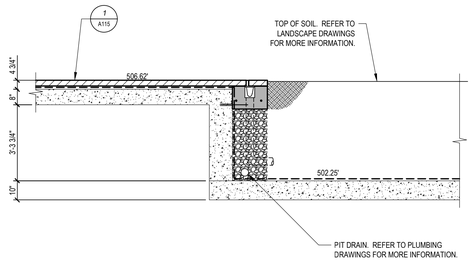
16 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



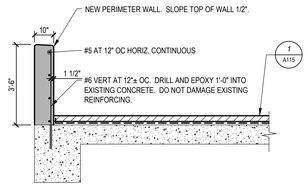
17 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



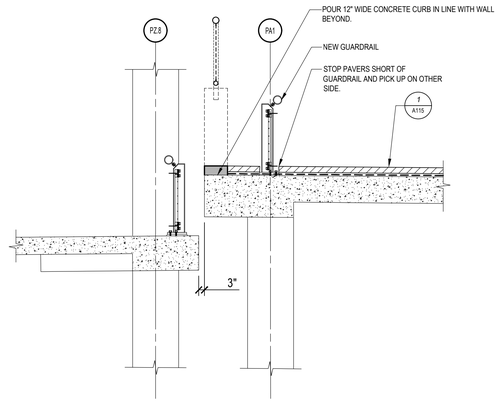
18 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



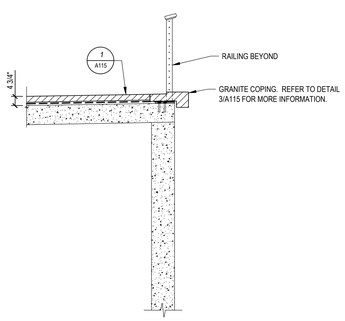
19 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



20 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES



21 / A113 SECTION 3/8"=1'-0"

REFER TO DETAIL 1/A112 FOR TYPICAL NOTES

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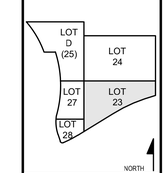
ISSUES		
1	1/31/2020	BID PACKAGE #5 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

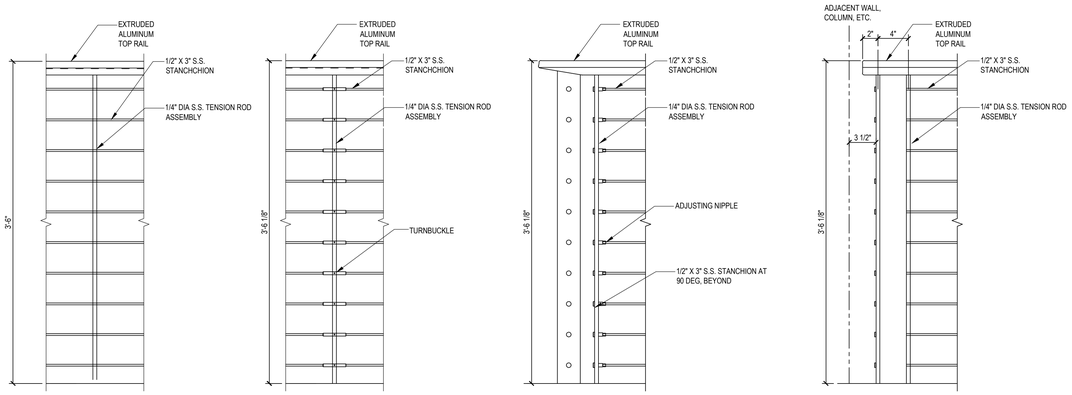
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PARK SECTIONS

JOB NUMBER: 98090.38
DATE: 01/31/2020

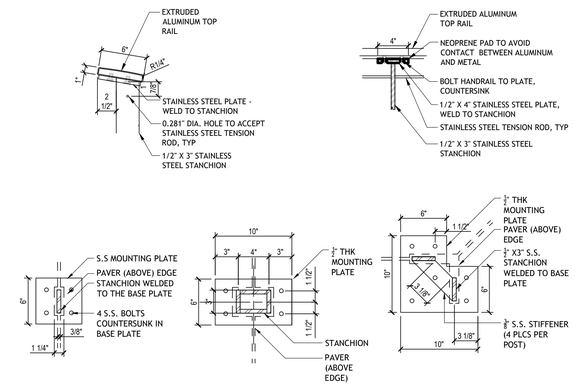
DRAWING NUMBER: A113



TYPICAL ELEVATION | ROD TERMINUS ELEVATION | 90° CORNER ELEVATION | END ELEVATION

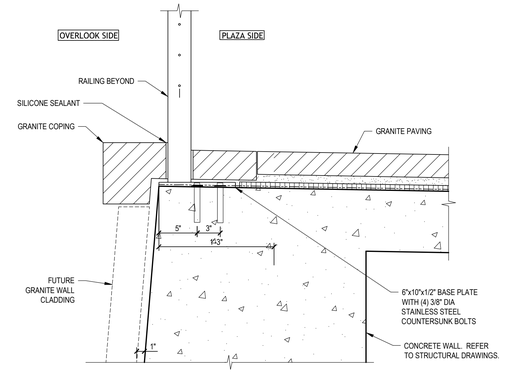
NOTE: STANCHIONS NOT TO EXCEED 5'-0" SPACING.
SPACING BETWEEN ALL ELEMENTS NOT TO EXCEED 4".

1 / A214 *GUARDRAIL ELEVATIONS*
DETAIL
1 1/2" = 1'-0"

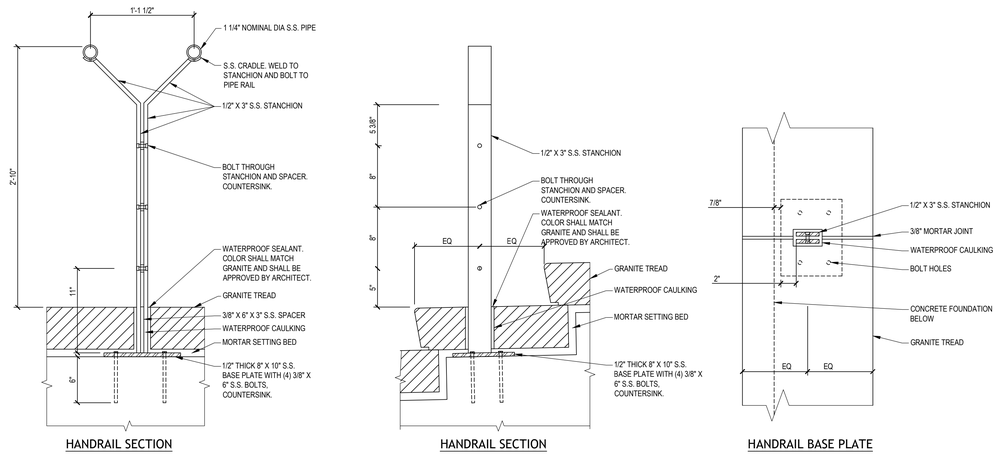


TYP. MOUNTING PLATE PLAN | END POST MOUNTING PLATE PLAN | CORNER POST MOUNTING PLATE PLAN

2 / A214 *GUARDRAIL TOP AND BASE PLATE*
DETAIL
1 1/2" = 1'-0"



3 / A214 *GUARDRAIL AT WALL*
DETAIL
1 1/2" = 1'-0"



HANDRAIL SECTION | HANDRAIL SECTION | HANDRAIL BASE PLATE

4 / A214 *UPPER RACE STREET HANDRAIL*
DETAIL
1 1/2" = 1'-0"

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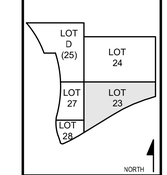
ISSUES		
1	1/31/2020	BID PACKAGE #5 SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

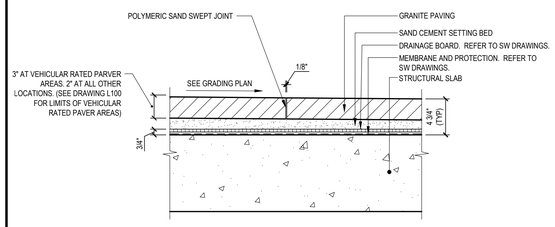
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: RAILING DETAILS

JOB NUMBER: 98090.38
DATE: 01/31/2020

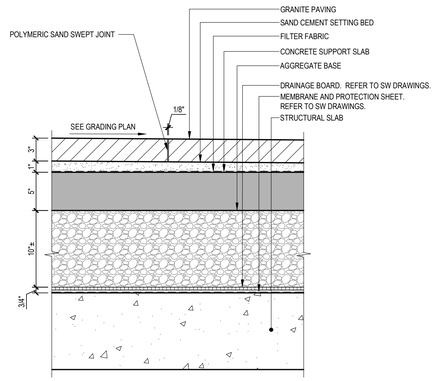
DRAWING NUMBER: A114



PAVERS DIRECTLY ON STRUCTURAL SLAB

1 / A115 DETAIL

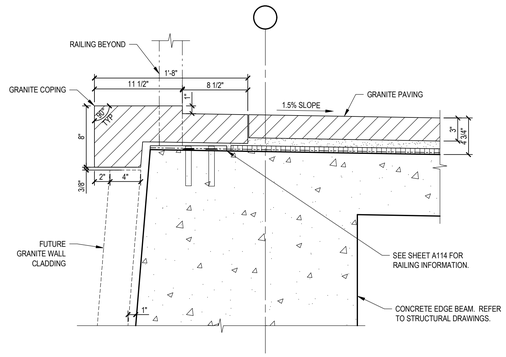
1 1/2" = 1'-0"



PAVERS ELEVATED OVER STRUCTURAL SLAB

2 / A115 DETAIL

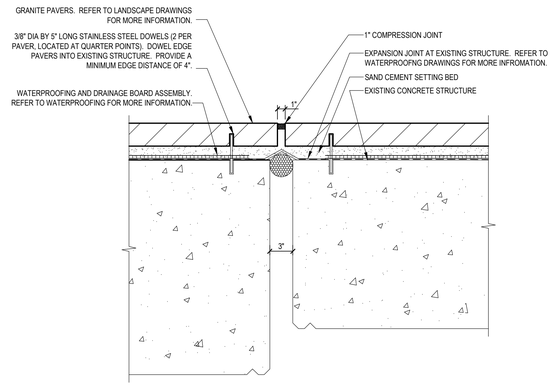
1 1/2" = 1'-0"



COPING AT PERIMETER RAIL

3 / A115 DETAIL

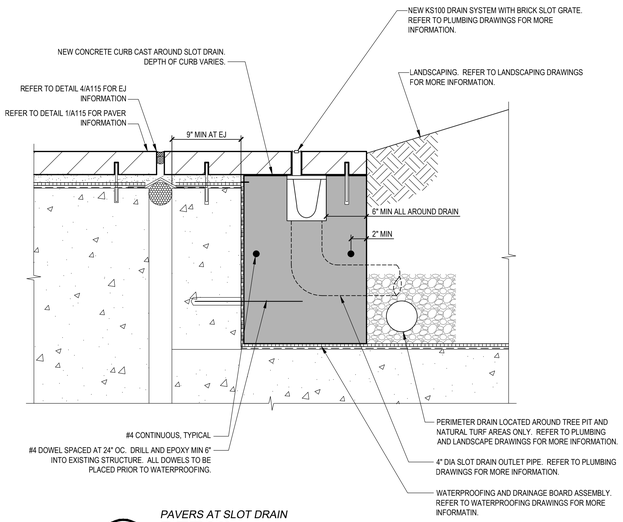
1 1/2" = 1'-0"



PAVERS AT EXPANSION JOINT

4 / A115 DETAIL

1 1/2" = 1'-0"



PAVERS AT SLOT DRAIN

5 / A115 DETAIL

1 1/2" = 1'-0"

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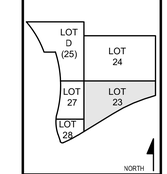
ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

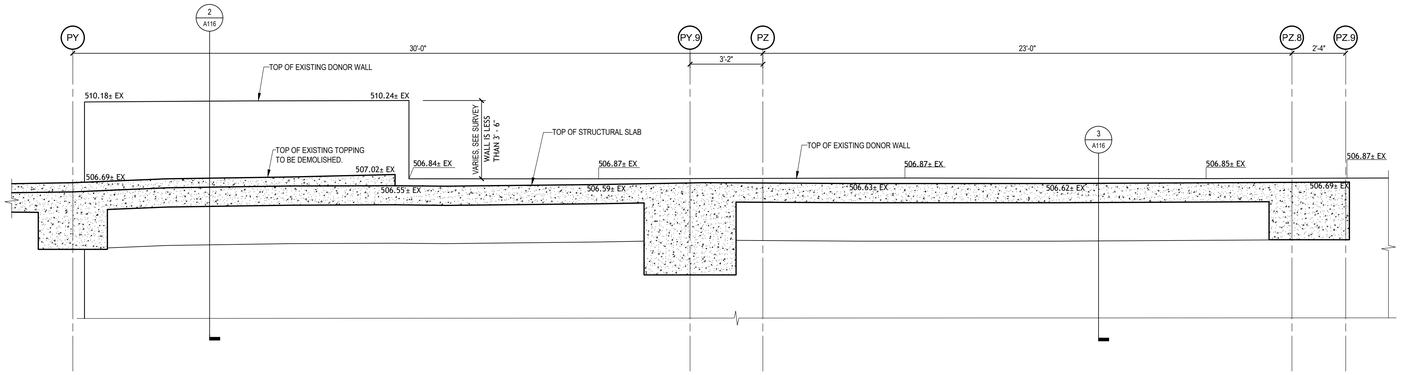
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

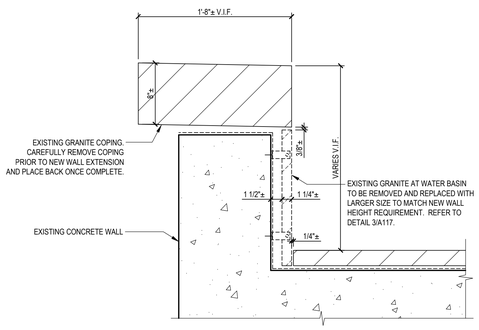
DRAWING TITLE: PAVING DETAILS

JOB NUMBER: 98090.38
DATE: 01/31/2020

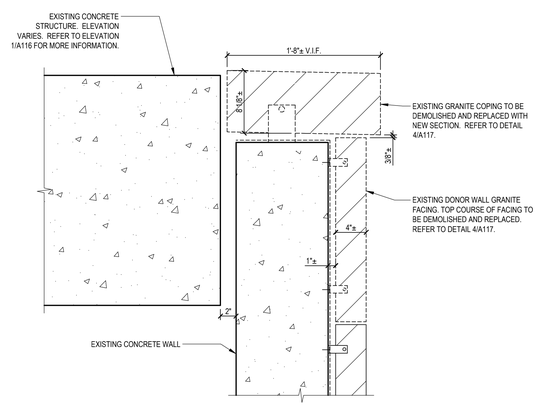
DRAWING NUMBER: A115



1 A116 *EXISTING DONOR WALL*
ELEVATION
1 1/2" = 1'-0"



2 A116 *EXISTING WALL AT UPPER BASIN*
DETAIL
1 1/2" = 1'-0"



3 A116 *EXISTING DONOR WALL*
DETAIL
1 1/2" = 1'-0"

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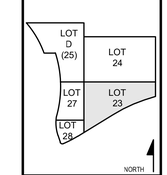
CONSTRUCTION

ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

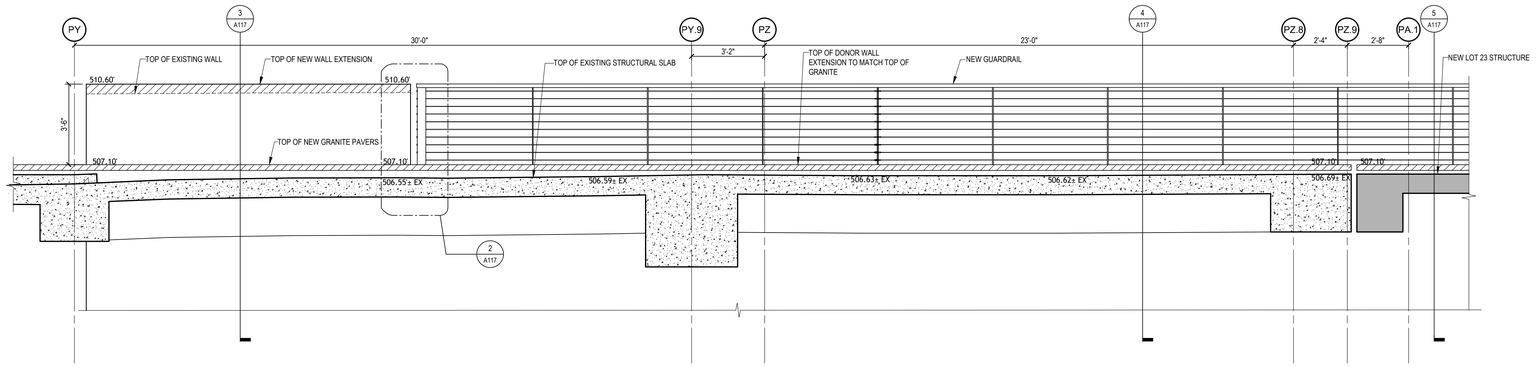
THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE
DONOR WALL
REPLACEMENT DETAILS

JOB NUMBER 98090.38
DATE 01/31/2020

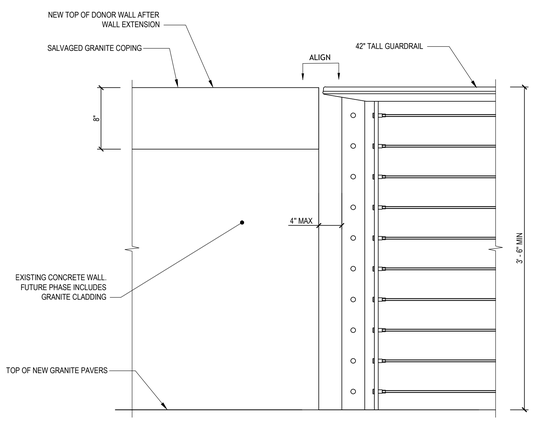
DRAWING NUMBER
A116



NEW DONOR WALL

1 / A117 ELEVATION

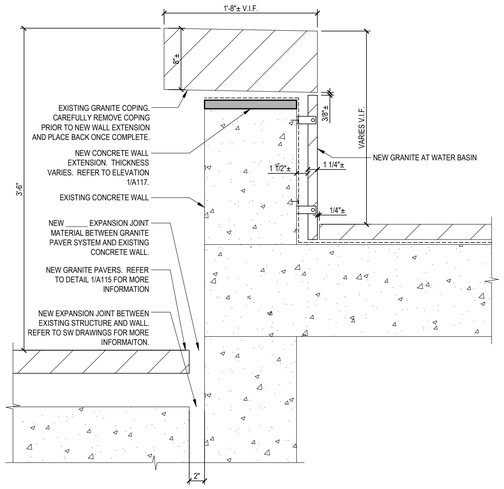
1 1/2" = 1'-0"



NEW RAILING AT WALL STEP

2 / A117 DETAIL

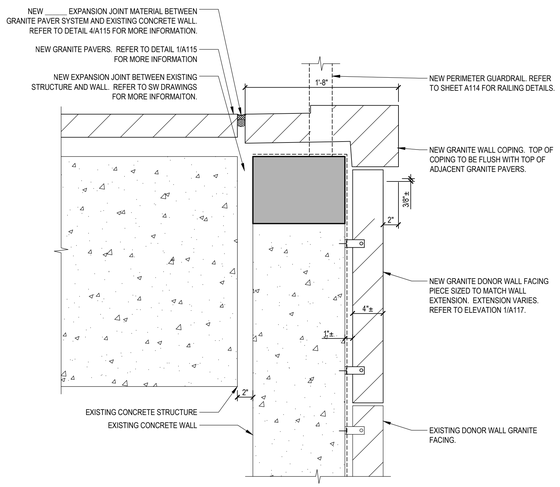
1 1/2" = 1'-0"



UPPER BASIN WALL EXTENSION

3 / A117 DETAIL

1 1/2" = 1'-0"



DONOR WALL EXTENSION AT EXISTING STRUCTURE

4 / A116 DETAIL

1 1/2" = 1'-0"

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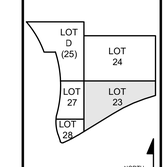
ISSUES		
1	2/21/2020	BID PACKAGE #6



DRAWN BY: L.C.G.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

THE BANKS PHASE 3B

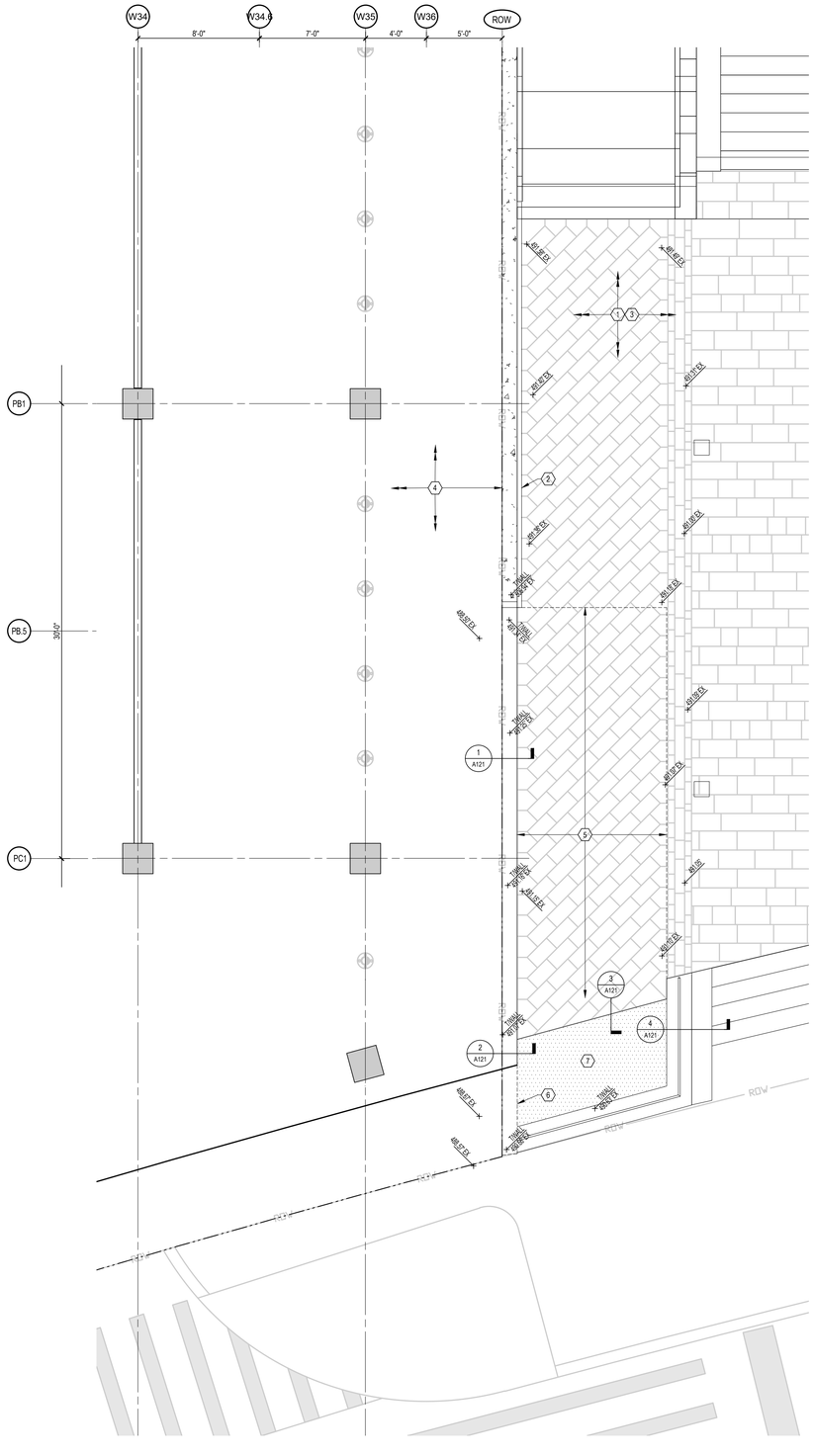
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: DONOR WALL REPLACEMENT DETAILS

JOB NUMBER: 98090.38

DATE:

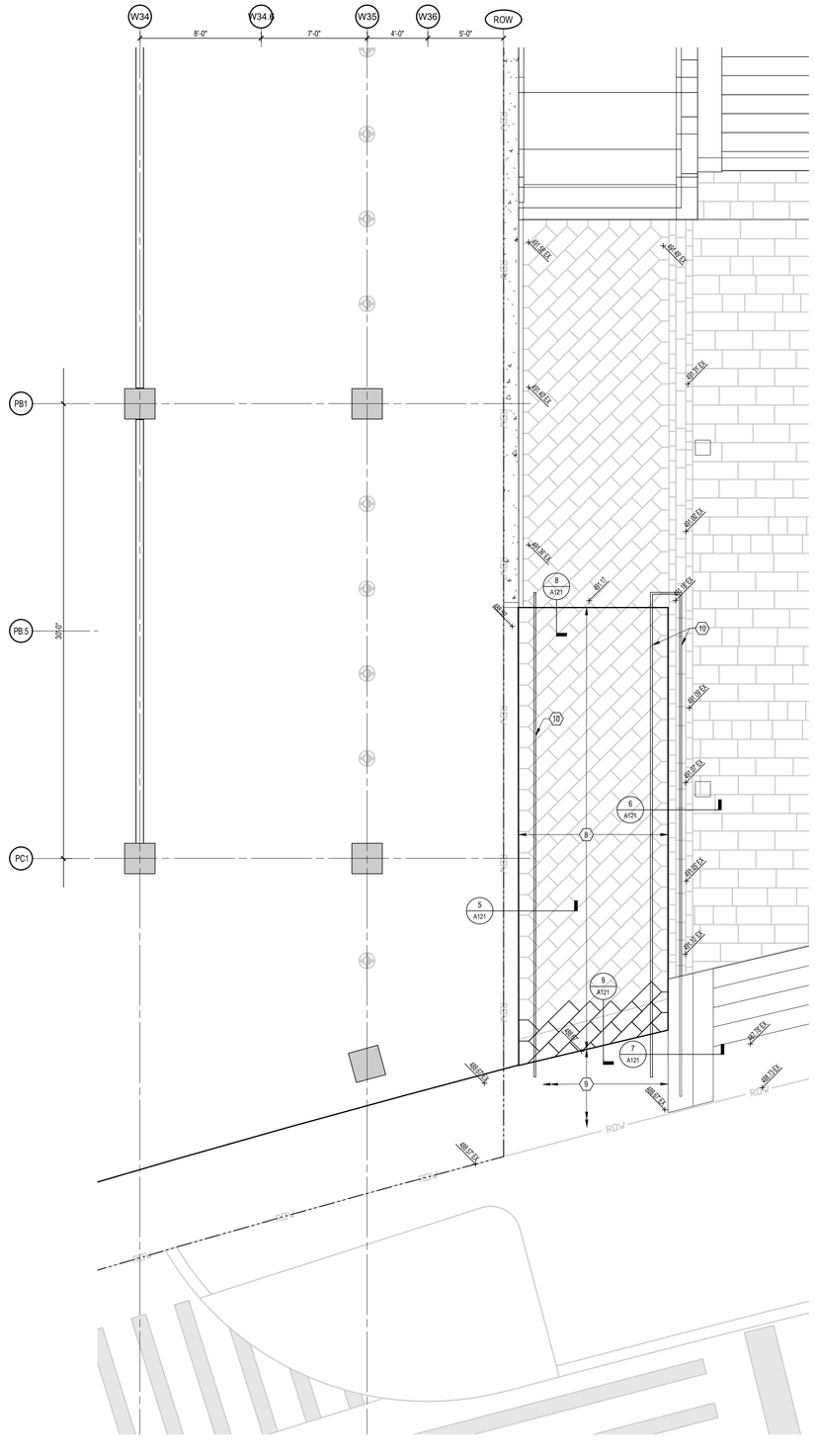
DRAWING NUMBER: A117



1 LOWER LEVEL (489) DEMOLITION PLAN

A120 1/4" = 1'-0"

NORTH



2 LOWER LEVEL (489) ENLARGED PLAN

A120 1/4" = 1'-0"

NORTH

LEGEND:

- CONCRETE PAVING
- CONCRETE PAVING CARPET
- GRANITE
- SPORTS TURF
- NATURAL TURF
- GROUND COVER
- 60.12 T/GRADING SPOT ELEVATION (U.N.O.)
- VALLEY
- RIDGE
- AREA DRAIN
- SLOT DRAIN
- LIGHT TYPE 1
- LIGHT TYPE 2
- LIGHT TYPE 3
- LIGHT TYPE 4
- EJ EXPANSION JOINT

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SITE FURNISHINGS, AND JOINT/SCORING PATTERNS.

B.

DRAWING NOTES:

1. EXISTING VINE STREET STAIN (LOT 22)
2. EXISTING LOT 22 DONOR WALL
3. EXISTING GRANITE PAVEMENT.
4. LOT 23 GARAGE.
5. REMOVE EXISTING GRANITE PAVEMENT, BASE AND SUB-BASE TO ALLOW FOR NEW RAMP. SALVAGE GRANITE PAVERS FOR REINSTALLATION ON NEW RAMP.
6. REMOVE SECTION OF EXISTING SITE WALL.
7. REMOVE EXISTING PLANTER.
8. NEW RAMP WITH GRANITE PAVEMENT ON CONCRETE SUPPORT SLAB ON COMPACTED SUB BASE. REUSE SALVAGED GRANITE PAVERS TO GREATEST EXTENT POSSIBLE. SUPPLEMENT WITH NEW GRANITE PAVERS TO MATCH EXISTING.
9. NEW 9" CONCRETE PAVEMENT. POUR WITH NEW ADJACENT SIDEWALK CONSTRUCTION.
10. NEW STAINLESS STEEL RAILINGS (TO MATCH EXISTING ADJACENT STAINLESS STEEL RAILINGS).

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100 East Eighth Street
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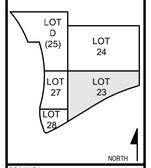
Phone: 513.241.3222
www.thpltd.com

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES		
1	12/1/2020	BID PACKAGE #5 - SCOPING SET



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

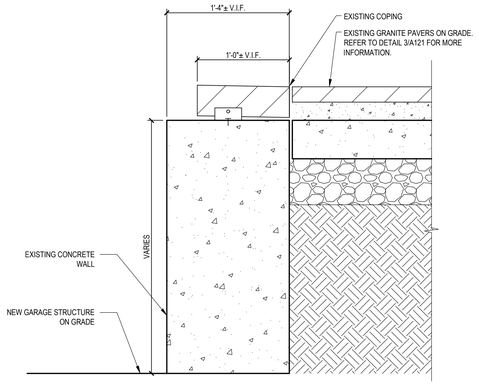
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

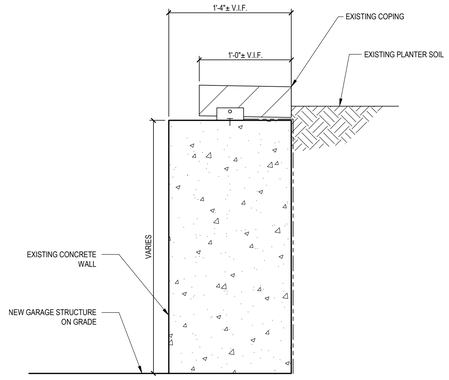
DRAWING TITLE: ENLARGED RAMP PLANS

JOB NUMBER: 98090.38
DATE: 01/31/2020

DRAWING NUMBER: A120



1 A121 **SECTION**
1 1/2"=1'-0"



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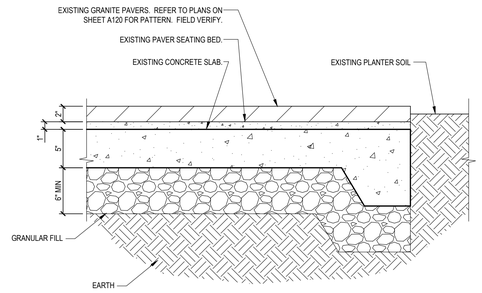
1 1/2"=1'-0"



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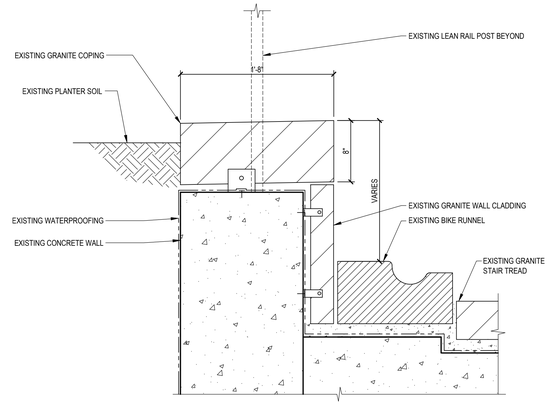
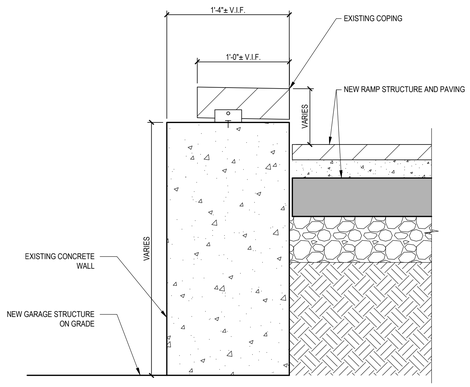
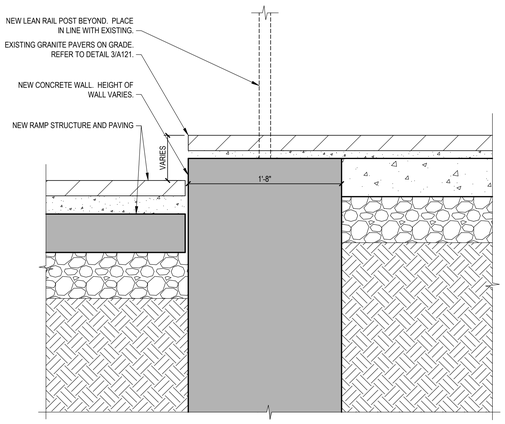
1 1/2"=1'-0"



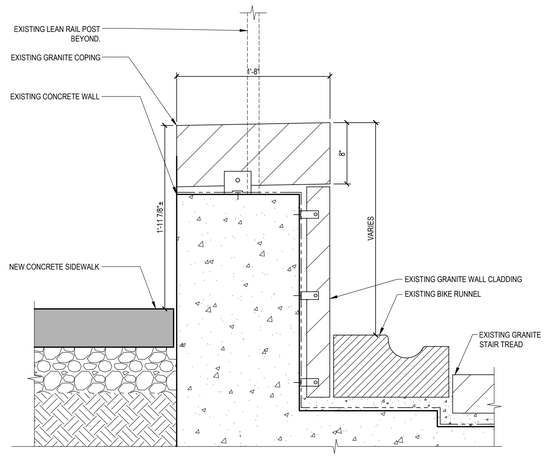
4 A121 **SECTION**
1 1/2"=1'-0"



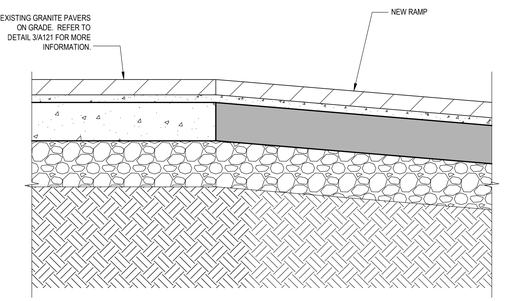
5 A121 **SECTION**
1 1/2"=1'-0"



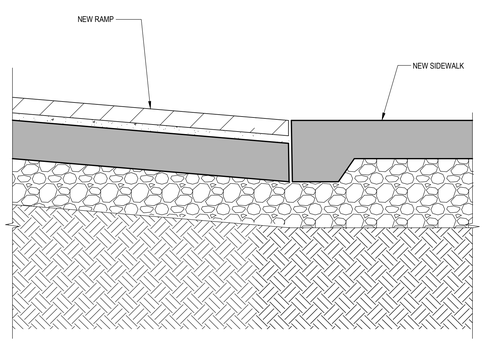
6 A121 **SECTION**
1 1/2"=1'-0"



7 A121 **SECTION**
1 1/2"=1'-0"



8 A121 **SECTION**
1 1/2"=1'-0"



9 A121 **SECTION**
1 1/2"=1'-0"

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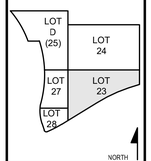
ISSUES		
1	12/1/2020	BID PACKAGE #6 - SCOPING SET



DRAWN BY: L.C.G.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

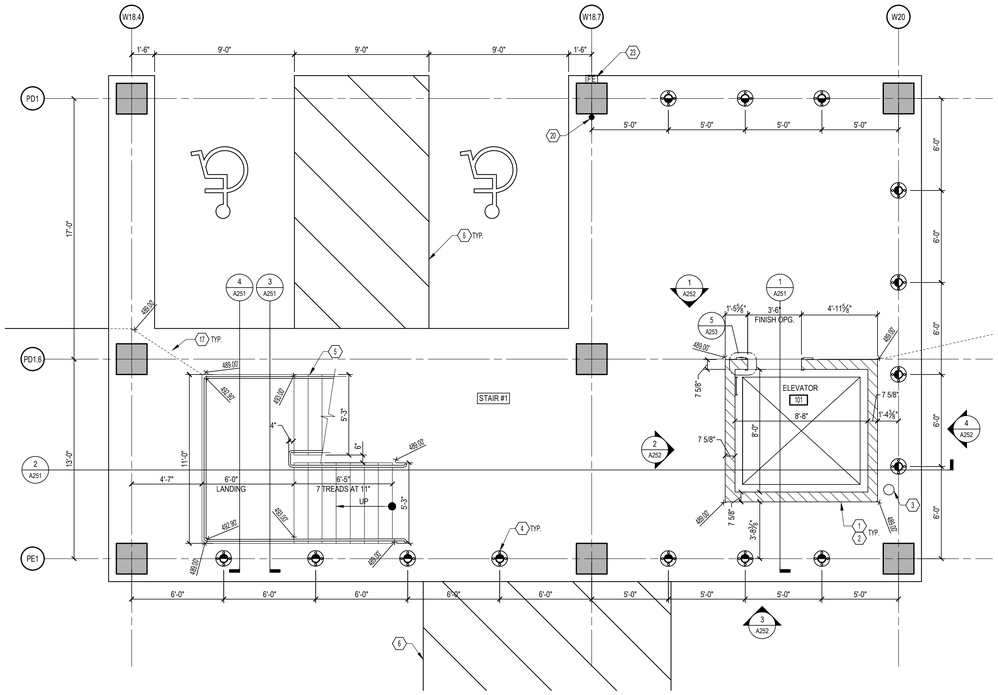
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
RAMP AND DEMOLITION SECTIONS

JOB NUMBER 98090.38
DATE

DRAWING NUMBER
A121

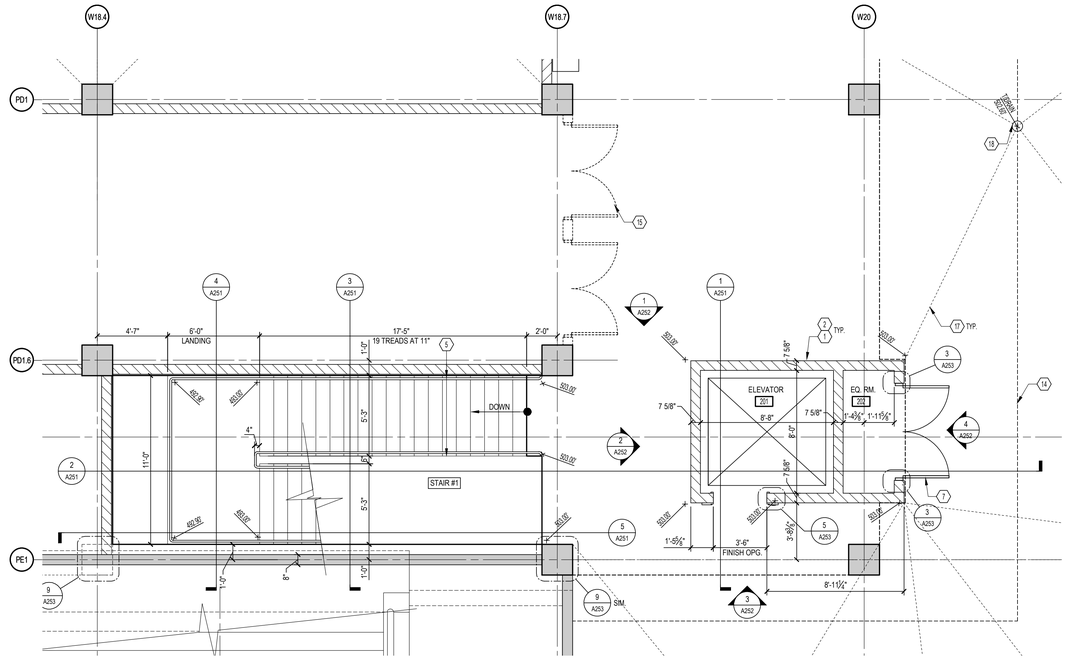


LOT 23 STAIR AND ELEVATOR - LOWER LEVEL

1 / A250 PARTIAL PLAN

1/4" = 1'-0"

NORTH

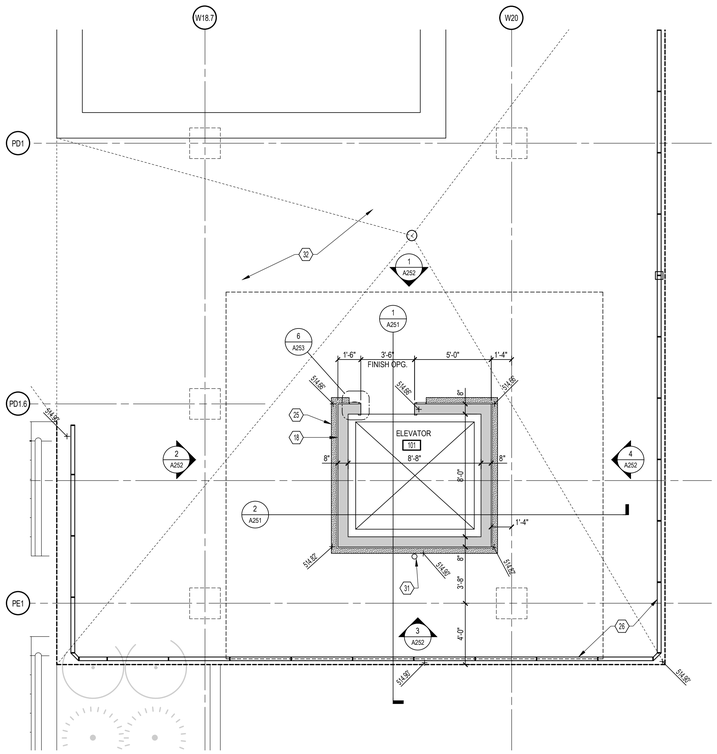


LOT 23 STAIR AND ELEVATOR - PARK LEVEL

2 / A250 PARTIAL PLAN

1/4" = 1'-0"

NORTH

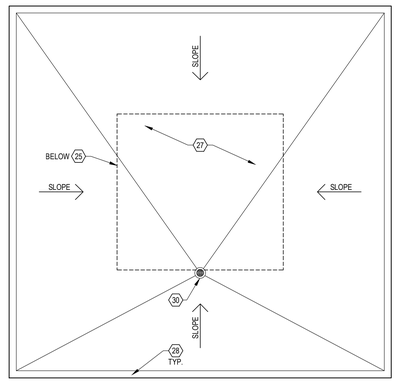


LOT 23 STAIR AND ELEVATOR - PODIUM LEVEL

3 / A250 PARTIAL PLAN

1/4" = 1'-0"

NORTH



LOT 23 STAIR AND ELEVATOR - PODIUM LEVEL

4 / A250 ROOF PLAN

1/4" = 1'-0"

NORTH

DRAWING NOTES A250-A252:

1. 8" CONCRETE MASONRY UNIT (UNPAINTED UNLESS OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
2. 4" SPLIT-FACE CONCRETE MASONRY UNIT (UNPAINTED UNLESS NOTED OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
3. HUB DRAIN FOR ELEVATOR SUMP UNIT. SEE 142400 AND P-SERIES DRAWINGS.
4. STAINLESS STEEL BOLLARD. SEE 057000.
5. STAINLESS STEEL GUARDRAIL AND HANDRAIL. SEE 055000.
6. PARKING SPACE OR PAVEMENT MARKINGS. SEE 321723.
7. HOLLOW METAL DOOR AND FRAME. SEE 081100.
8. STAINLESS STEEL ELEVATOR HOISTWAY DOORS, FRAMES, AND TRIM. SEE 142100 AND 057000.
9. ELEVATOR CALL BUTTON STATION. SEE 142100.
10. ELEVATOR HALL LANTERN. SEE 142100.
11. ELEVATOR PIT.
12. ELEVATOR PIT LADDER.
13. COORDINATE LIGHT FIXTURE LOCATIONS AND QUANTITY WITH ELECTRICAL CONTRACTOR.
14. PLAZA SLAB EDGE ABOVE.
15. HOLLOW METAL DOORS BY OTHER.
16. CONCRETE WALL (UNPAINTED UNLESS OTHERWISE).
17. DRAINAGE RIDGE OR VALLEY IN SLAB. SEE A100 SERIES PLANS.
18. FLOOR DRAIN. SEE P-SERIES DRAWINGS.
19. PILES IN PREVIOUS BID PACKAGE.
20. CONCRETE SLAB ON GRADE.
21. FIRE RISER TO FIRE DEPARTMENT VALVE. SEE FP-SERIES.
22. STEEL ELEVATOR HOIST BEAM. SEE 05500.
23. FIRE EXTINGUISHER AND CABINET. SEE 104400.
24. EXIT SIGN. SEE E-SERIES DRAWINGS.
25. 4" THICK STONE VENEER - CHAT-SAWN SANDSTONE AND BROWN GRANITE BASE TO MATCH EXISTING. ANCHOR TO CONCRETE WALL WITH STAINLESS STEEL STRAP ANCHORS AT EACH COURSE.
26. GUARD RAIL.
27. SINGLE-PLY MEMBRANE ROOFING ON TAPERED RIGID INSULATION.
28. ZINC FASCIA.
29. STAINED 3/4" X 4" T&G WOOD SOFFIT.
30. ROOF DRAIN (BASIS OF DESIGN: ZURN Z-125).
31. 4" DIA. PREFINISHED ALUMINUM DOWNSPOUT. CONNECT TO CAST IRON HUB TIED TO STORMWATER PIPING SYSTEM. SEE P-SERIES DRAWINGS.
32. GRANITE PAVERS.

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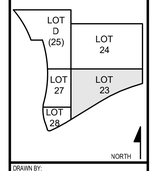
Fax: (513) 241-2981

ISSUES		
1	8/8/2019	SCOPING SET
2	9/25/2019	BID PACKAGE #5
3	9/25/2019	BPS PERMIT SET
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/21/2020	BULLETIN #8
6	1/31/2020	BID PACKAGE #6 - SCOPING SET
7	2/21/2020	BID PACKAGE #6



DRAWN BY: J.M.H.

ENGINEER: M.S.M.

CHECKED BY: M.L.H

THE BANKS PHASE 3B

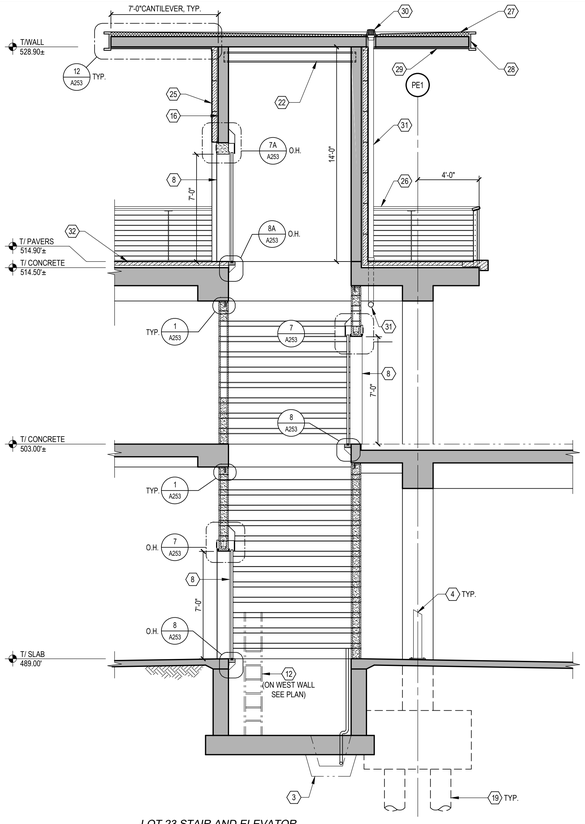
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: LOT 23 STAIR AND ELEVATOR - PLANS

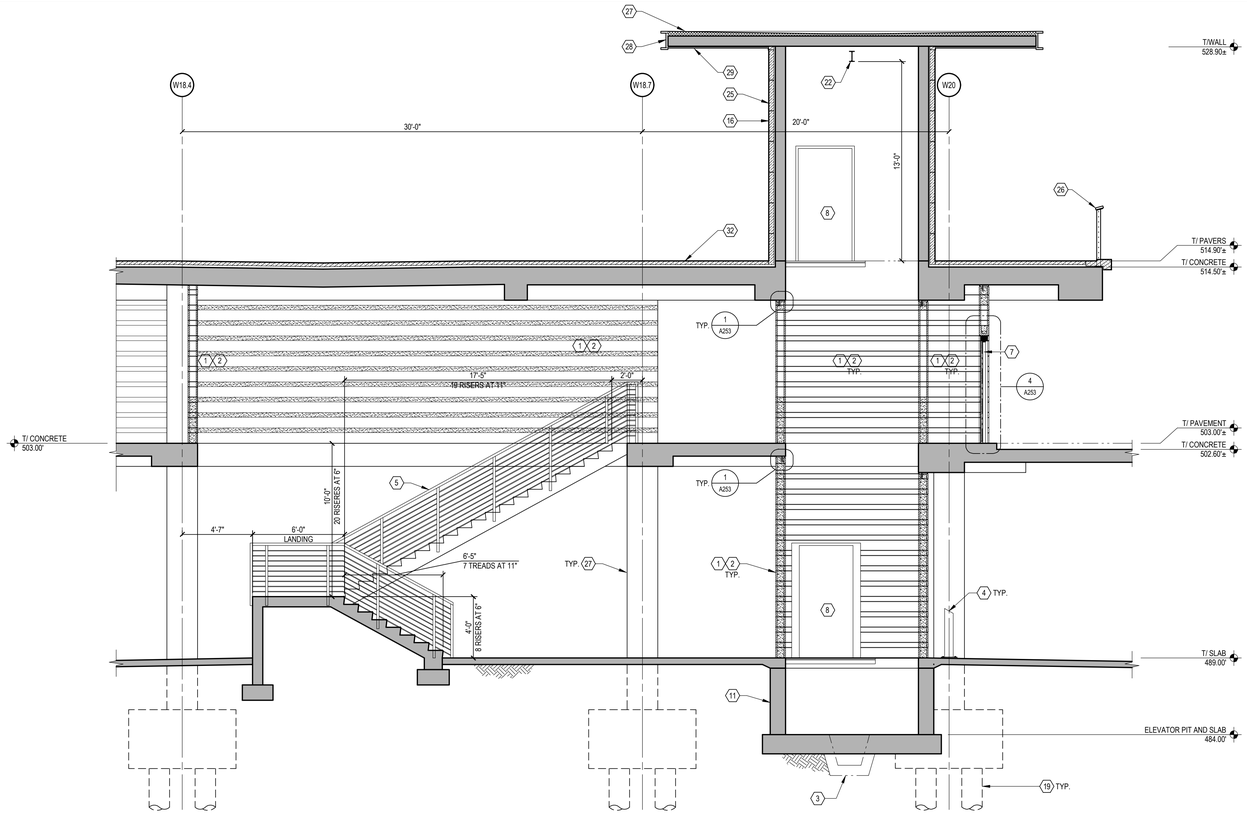
JOB NUMBER: 98090.38

DATE: 8/22/2019

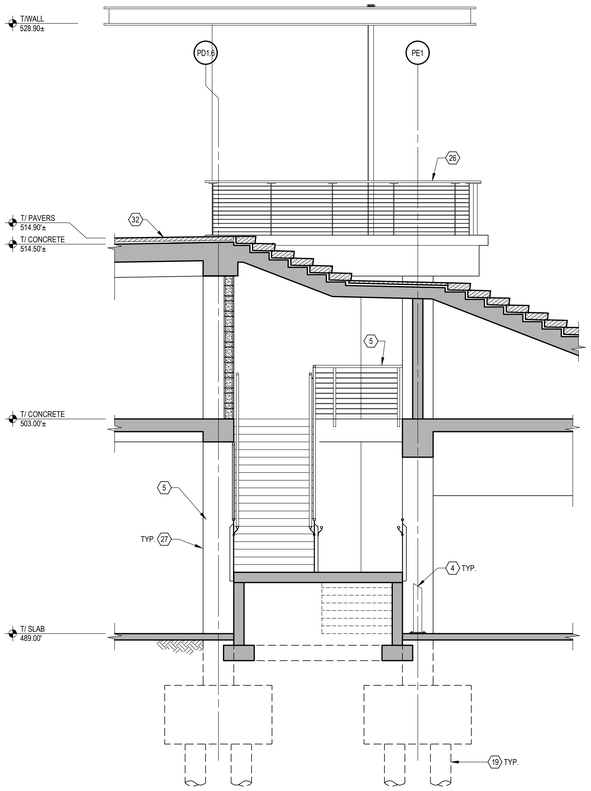
DRAWING NUMBER: A250



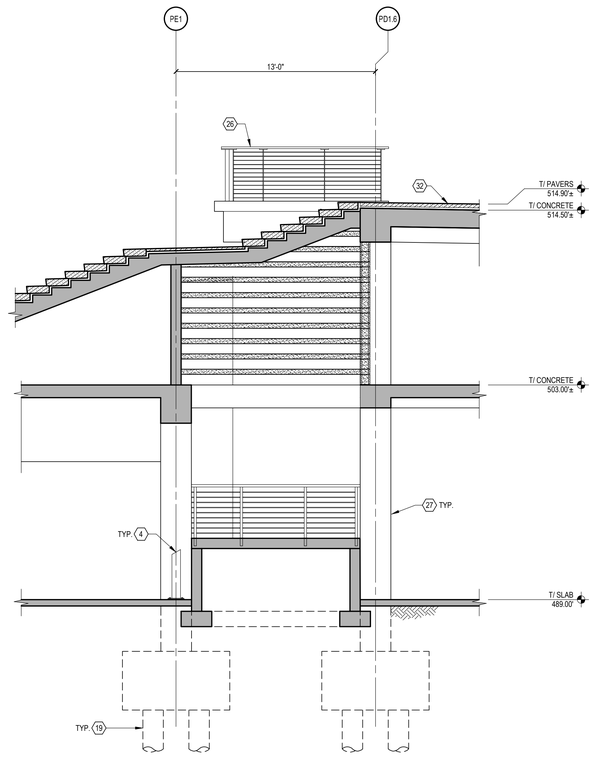
1 A251 LOT 23 STAIR AND ELEVATOR **SECTION** 1/4" = 1'-0"



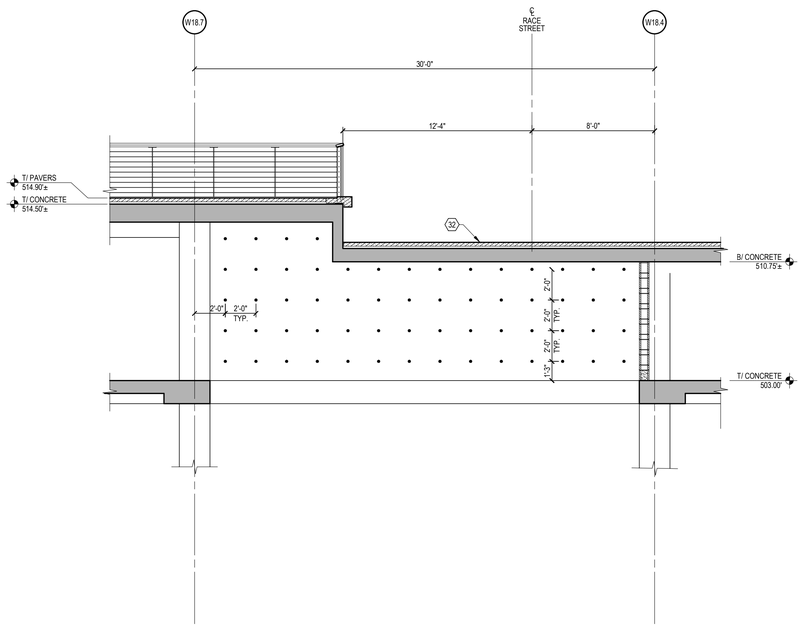
2 A251 LOT 23 STAIR AND ELEVATOR **SECTION** 1/4" = 1'-0"



3 A251 LOT 23 STAIR AND ELEVATOR **SECTION** 1/4" = 1'-0"



4 A251 LOT 23 **SECTION** 1/4" = 1'-0"



5 A251 LOT 23 STAIR AND ELEVATOR **SECTION** 1/4" = 1'-0"

DRAWING NOTES A250-A252:

1. 8" CONCRETE MASONRY UNIT (UNPAINTED UNLESS OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
2. 4" SPLIT-FACE CONCRETE MASONRY UNIT (UNPAINTED UNLESS NOTED OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
3. HUB DRAIN FOR ELEVATOR SUMP UNIT. SEE 142400 AND P-SERIES DRAWINGS.
4. STAINLESS STEEL BOLLARD. SEE 057000.
5. STAINLESS STEEL GUARDRAIL AND HANDRAIL. SEE 055000.
6. PARKING SPACE OR PAVEMENT MARKINGS. SEE 321723.
7. HOLLOW METAL DOOR AND FRAME. SEE 081100.
8. STAINLESS STEEL ELEVATOR HOISTWAY DOORS, FRAMES, AND TRIM. SEE 142100 AND 057000.
9. ELEVATOR CALL BUTTON STATION. SEE 142100.
10. ELEVATOR HALL LANTERN. SEE 142100.
11. ELEVATOR PIT.
12. ELEVATOR PIT LADDER.
13. COORDINATE LIGHT FIXTURE LOCATIONS AND QUANTITY WITH ELECTRICAL CONTRACTOR.
14. PLAZA SLAB EDGE ABOVE.
15. HOLLOW METAL DOORS BY OTHER.
16. CONCRETE WALL (UNPAINTED UNLESS OTHERWISE).
17. DRAINAGE RIDGE OR VALLEY IN SLAB. SEE A100 SERIES PLANS.
18. FLOOR DRAIN. SEE P-SERIES DRAWINGS.
19. PILES IN PREVIOUS BID PACKAGE.
20. CONCRETE SLAB ON GRADE.
21. FIRE RISER TO FIRE DEPARTMENT VALVE. SEE FP-SERIES.
22. STEEL ELEVATOR HOIST BEAM. SEE 05500.
23. FIRE EXTINGUISHER AND CABINET. SEE 104400.
24. EXIT SIGN. SEE E-SERIES DRAWINGS.
25. 4" THICK STONE VENEER - CHAT-SAWN SANDSTONE AND BROWN GRANITE BASE TO MATCH EXISTING. ANCHOR TO CONCRETE WALL WITH STAINLESS STEEL STRAP ANCHORS AT EACH COURSE.
26. GUARD RAIL.
27. SINGLE-PLY MEMBRANE ROOFING ON TAPERED RIGID INSULATION.
28. ZINC FASCIA.
29. STAINED 3/4" X 4" T&G WOOD SOFFIT.
30. ROOF DRAIN (BASIS OF DESIGN: ZURN Z-125).
31. 4" DIA. PREFINISHED ALUMINUM DOWNSPOUT. CONNECT TO CAST IRON HUB TIED TO STORMWATER PIPING SYSTEM. SEE P-SERIES DRAWINGS.
32. GRANITE PAVERS.

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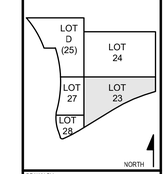
ISSUES

1	8/9/2019	SCOPING SET
2	9/27/2019	BID PACKAGE #5
3	9/30/2019	BPC PERMIT SET
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	12/4/2020	BULLETIN #8
6	12/10/2020	BID PACKAGE #5 - SCOPING SET
7	2/21/2020	BID PACKAGE #6



DRAWN BY: J.M.H.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

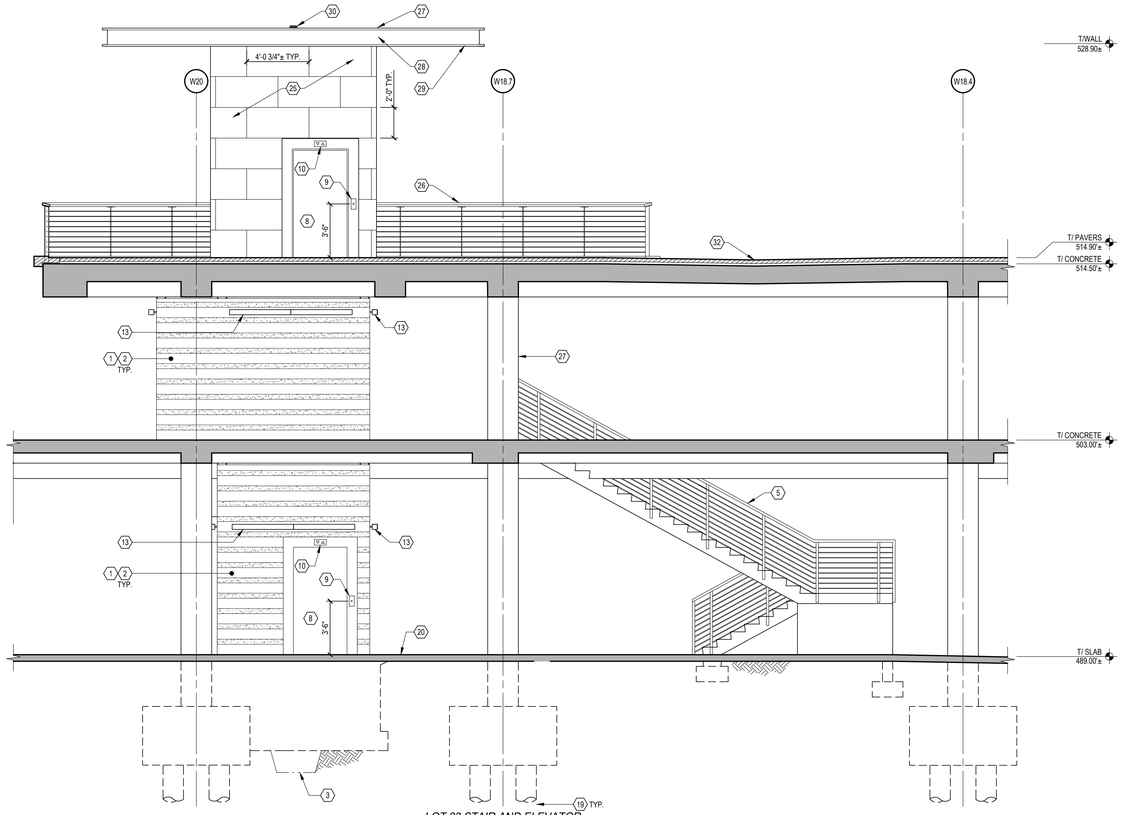
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

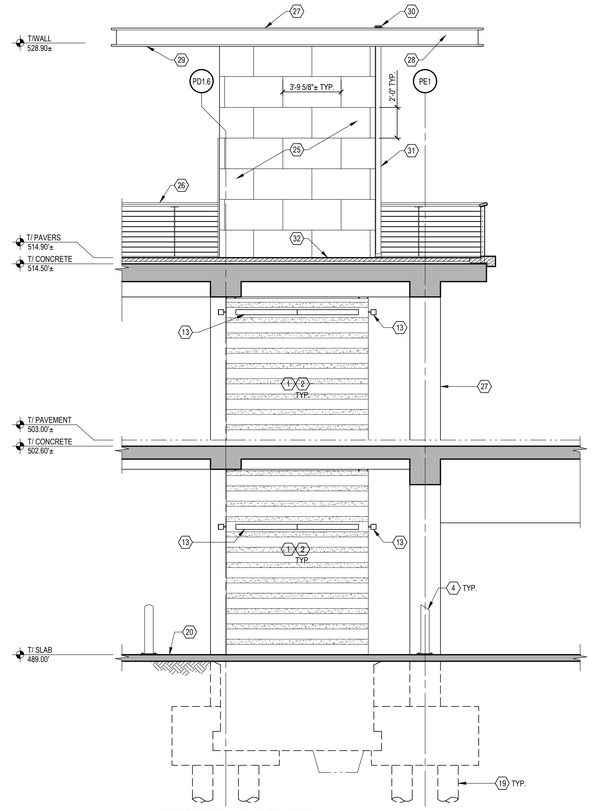
DRAWING TITLE
LOT 23 STAIR AND ELEVATOR - SECTIONS

JOB NUMBER 98090.38
DATE 8/22/2019

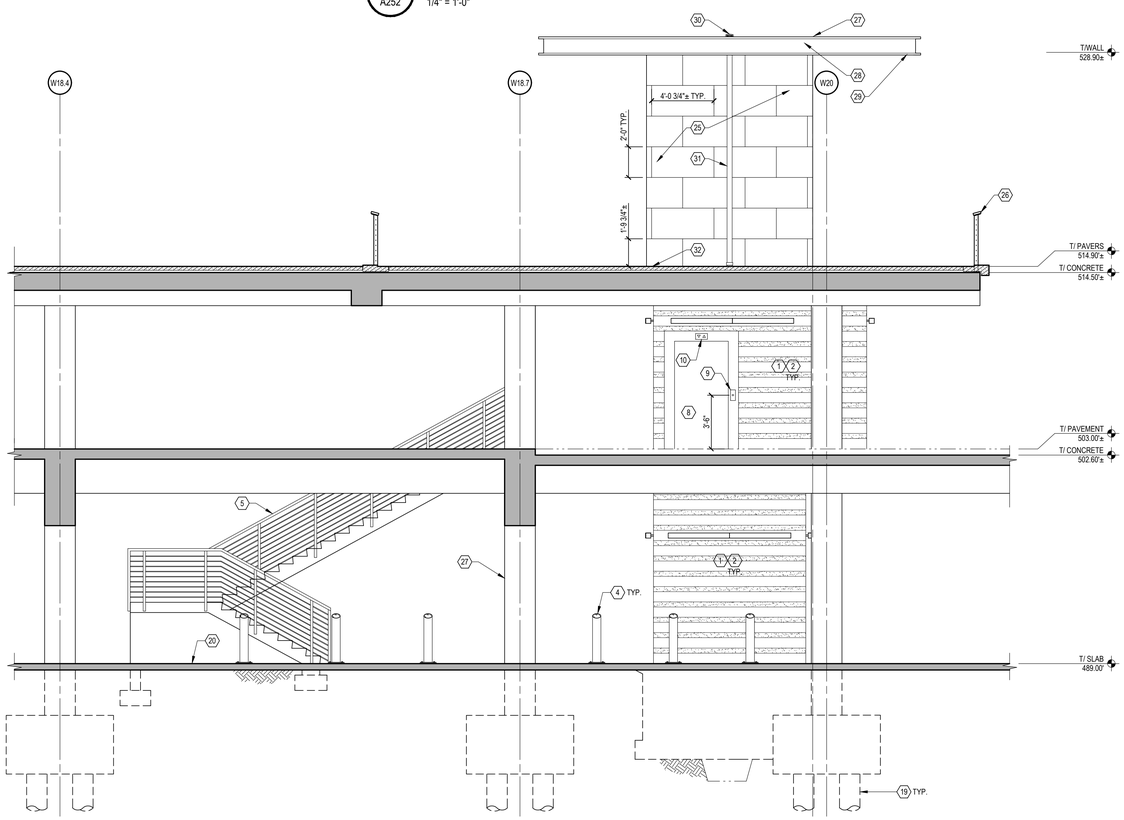
DRAWING NUMBER A251



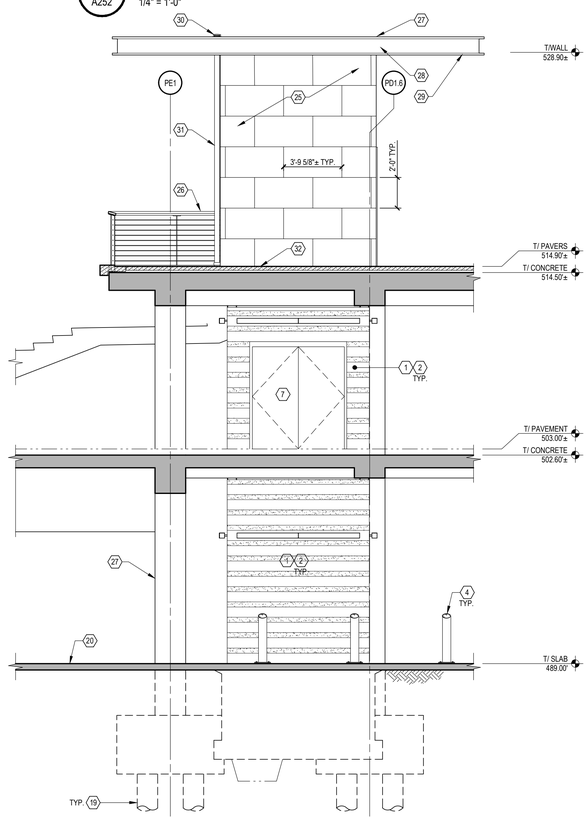
LOT 23 STAIR AND ELEVATOR
1 NORTH ELEVATION
A252 1/4" = 1'-0"



LOT 23 STAIR AND ELEVATOR
2 WEST ELEVATION
A252 1/4" = 1'-0"



LOT 23 STAIR AND ELEVATOR
3 SOUTH ELEVATION
A252 1/4" = 1'-0"



LOT 23 STAIR AND ELEVATOR
4 EAST ELEVATION
A252 1/4" = 1'-0"

DRAWING NOTES A250-A252:

1. 8" CONCRETE MASONRY UNIT (UNPAINTED UNLESS OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
2. 4" SPLIT-FACE CONCRETE MASONRY UNIT (UNPAINTED UNLESS NOTED OTHERWISE). SEE 042000 AND ELEVATIONS (DWG. A252).
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15. HOLLOW METAL DOORS BY OTHER.
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17. DRAINAGE RIDGE OR VALLEY IN SLAB. SEE A100 SERIES PLANS.
18. FLOOR DRAIN. SEE P-SERIES DRAWINGS.
19. PILES IN PREVIOUS BID PACKAGE.
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29. STAINED 3/4" X 4" T&G WOOD SOFFIT.
30. ROOF DRAIN (BASIS OF DESIGN: ZURN Z-125).
31. 4" DIA. PREFINISHED ALUMINUM DOWNSPOUT. CONNECT TO CAST IRON HUB TIED TO STORMWATER PIPING SYSTEM. SEE P-SERIES DRAWINGS.
32. GRANITE PAVERS.

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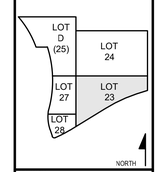
3	9/9/2019	BPC PERMIT SET
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/31/2020	BID PACKAGE #6 - SCOPING SET
6	2/21/2020	BID PACKAGE #6



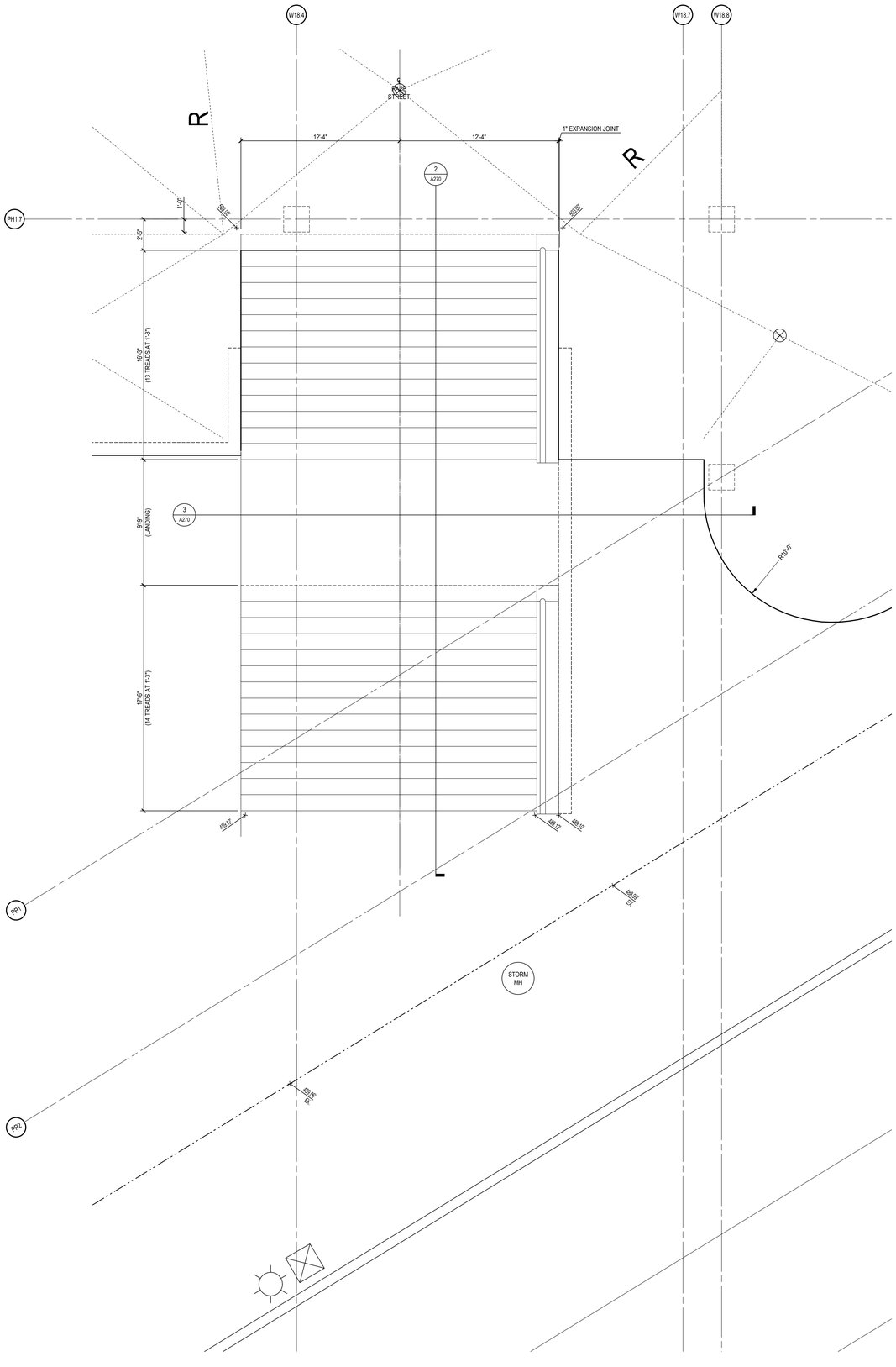
DRAWN BY: J.M.H.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

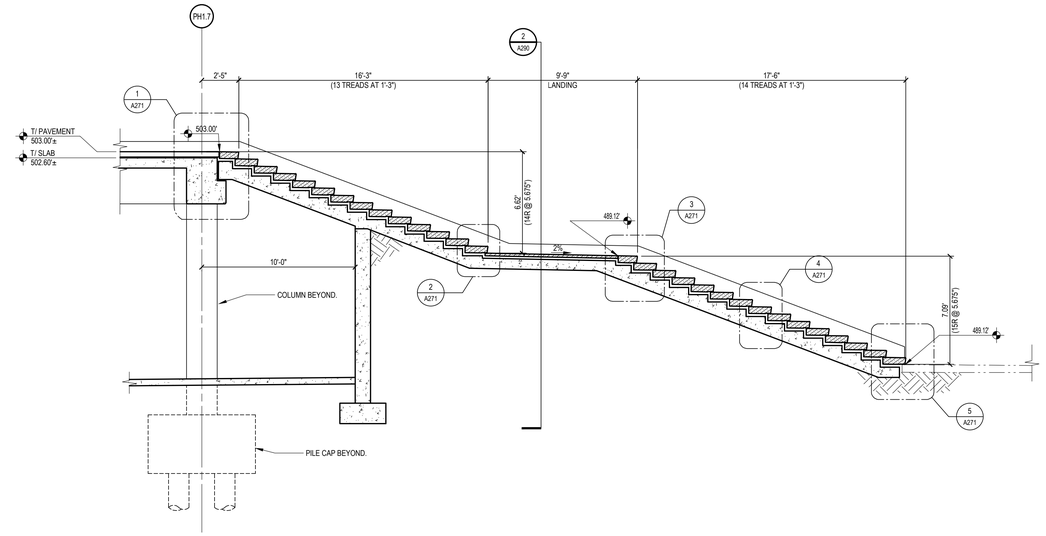
DRAWING TITLE
LOT 23 STAIR AND ELEVATOR - ELEVATIONS

JOB NUMBER 98090.38
DATE 8/22/2019
DRAWING NUMBER A252

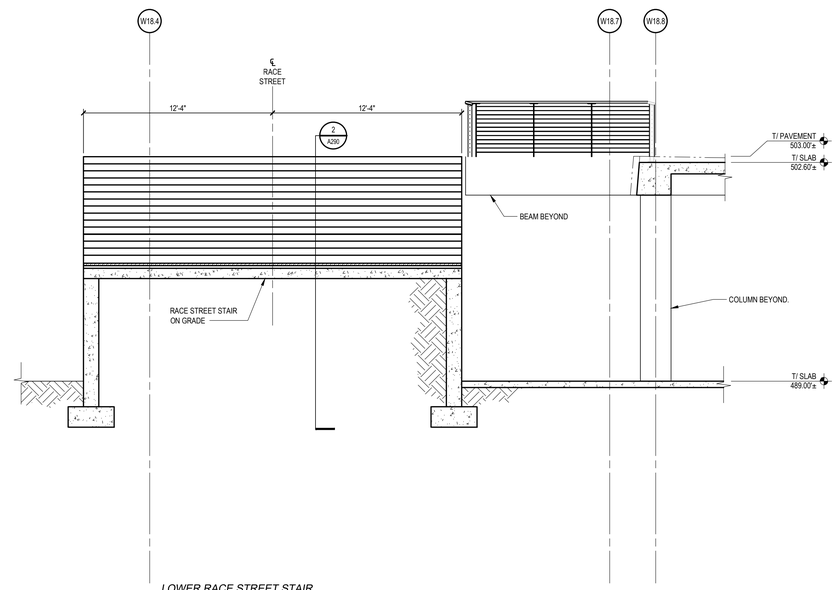


1 A270 LOWER RACE STREET STAIR
PLAN
1/4" = 1'-0"

NORTH



2 A270 LOWER RACE STREET STAIR
SECTION
1/4" = 1'-0"



3 A270 LOWER RACE STREET STAIR
SECTION
1/4" = 1'-0"

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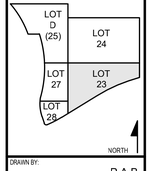
ISSUES

ISSUES		
1	8/22/2019	BID PACKAGE #5
2	9/9/2019	BP5 PERMIT SET
3	9/23/2019	ADDENDUM #2
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/31/2020	BID PACKAGE #6 - SCOPING SET
6	2/21/2020	BID PACKAGE #6



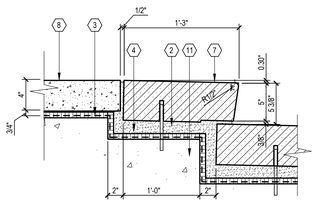
DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER RACE STREET STAIR AND PLANTER

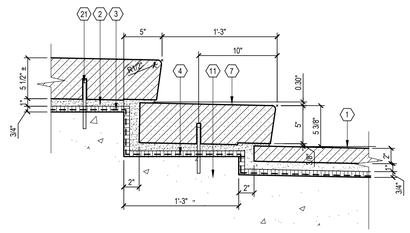
JOB NUMBER 98090.38
DATE 8/22/2019
DRAWING NUMBER A270



TOP OF RACE STREET STAIR

1 / A271 **DETAIL**

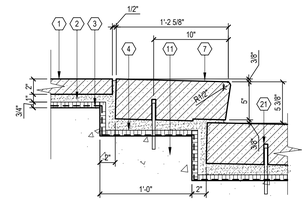
1 1/2" = 1'-0"



TOP OF RACE STREET STAIR LANDING

2 / A271 **DETAIL**

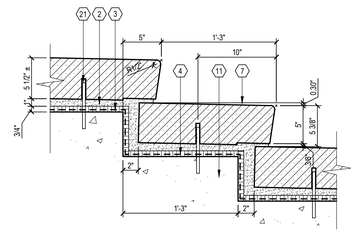
1 1/2" = 1'-0"



BOTTOM OF RACE STREET STAIR LANDING

3 / A271 **DETAIL**

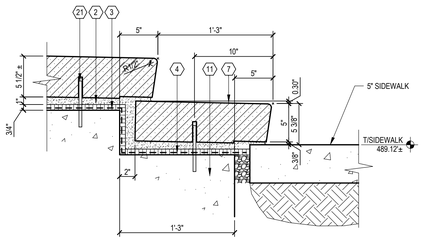
1 1/2" = 1'-0"



RACE STREET STAIR TREAD

4 / A271 **DETAIL**

1 1/2" = 1'-0"



BOTTOM OF RACE STREET STAIR

5 / A271 **DETAIL**

1 1/2" = 1'-0"

DRAWING NOTES:

1. GRANITE PAVING
2. LATEX MODIFIED MORTAR SETTING BED
3. WATERPROOFING MEMBRANE AND PROTECTION SHEET
4. DRAINAGE BOARD ASSEMBLY
5. FILTER FABRIC
6. CONCRETE SUPPORT SLAB
7. GRANITE TREAD
8. CONCRETE TOPPING SLAB (SEE PLAN FOR JOINT PATTERN)
9. AGGREGATE BASE
10. PRECAST CONCRETE TREAD
11. STRUCTURAL SLAB
12. 1/8" POLYMETRIC SAND SWEPT JOINT
13. MULCH
14. PLANTING BED SOIL
15. PLANTING SOIL
16. ROOT BARRIER
17. RIGID INSULATION
18. S.S. ANCHOR
19. AIR SPACE
20. POLYSULFIDE JOINT CAULK
21. 3/8" x 6" L S.S. DOWELS, (2) PER PIECE LOCATED AT QTR. PTS.
22. PROVIDE COMPRESSION SEAL.
23. PROVIDE 1/8" THICK STAINLESS STEEL BENT PLATE
24. PROVIDE ANCHOR WITH SELF TAPPING CONCRETE SCREWS
25. PROVIDE CLOSED CELL BACKER ROD
26. PROVIDE PREFORMED REINFORCING STRIP
27. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN
28. ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION BOARD WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON THE HIGH SIDE OF THE JOINT
29. PROVIDE PROTECTION BOARD
30. WING COMPRESSION SEAL
31. PROVIDE CHAMFER RUSTICATION STRIP TO PROVIDE CLEAN JOINT LINE
32. PROVIDE CONTINUOUS TOOLED JOINT TO AID REMOVAL OF EDGE SECTION OF TOPPING FOR RAIL REMOVAL WATERPROOFING EXTENSION, ETC.
33. PROVIDE 1/2"W x 1/2"D TOOLED RECESS FOR TERMINATION OF WATERPROOFING
34. FUTURE GRANITE COPING
35. FUTURE SANDSTONE WALL CLADDING
36. SUPPORT ANGLE (IF NECESSARY)
37. 2" EXPANSION JOINT BY OTHERS
38. GRANITE SEAT
39. GRANITE CLAD
40. WOOD SEAT

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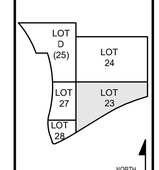
ISSUES

1	8/22/2019	BID PACKAGE #5
2	9/6/2019	WORKING SET
3	9/23/2019	ADDENDUM #1
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/31/2020	BID PACKAGE #6 - SCOPING SET
6	2/21/2020	BID PACKAGE #6



DRAWN BY: J.M.H.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

THE BANKS PHASE 3B

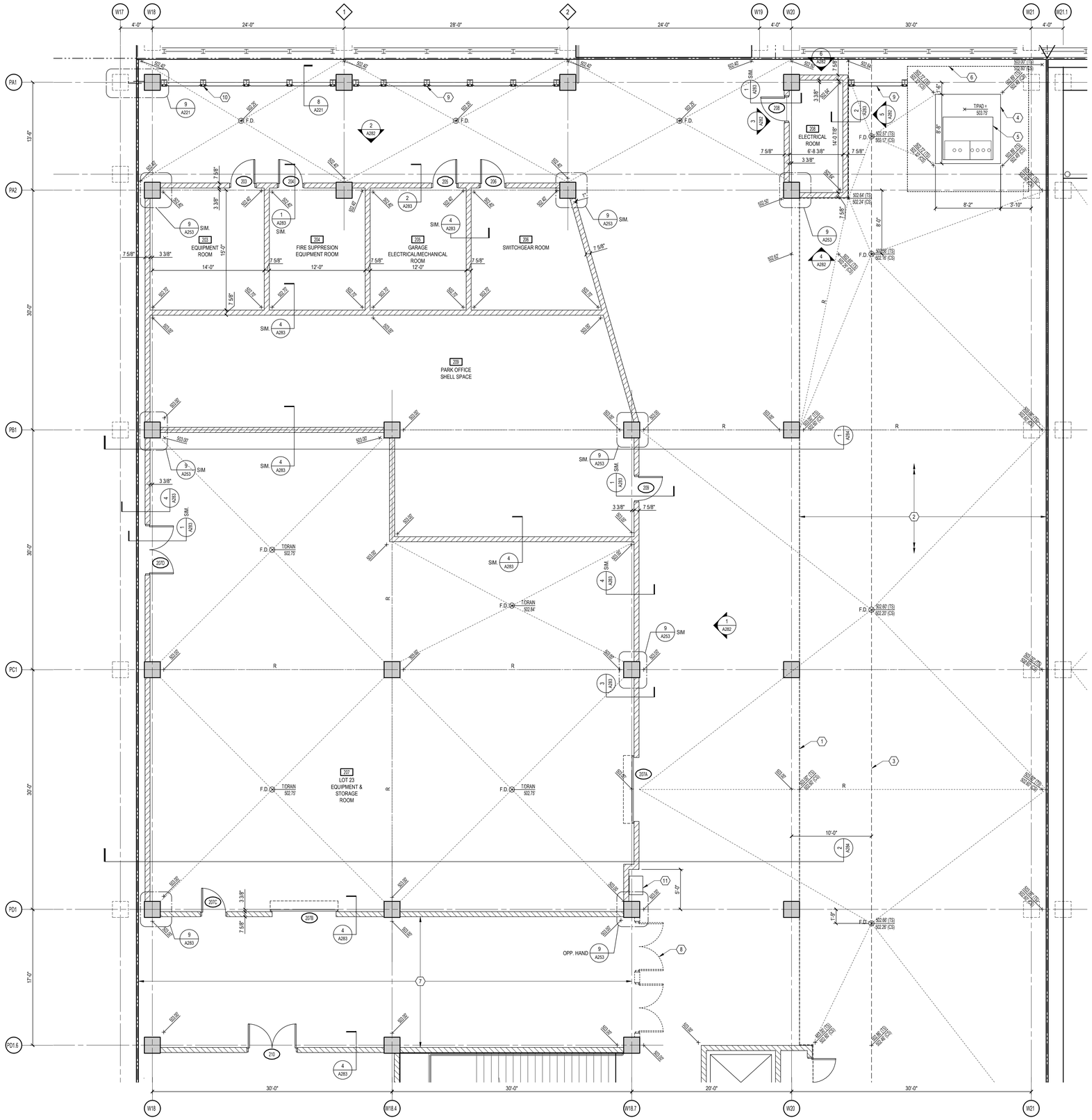
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

LOWER RACE STREET STAIR AND PLANTER DETAILS

JOB NUMBER 98090.38 DATE 8/22/2019

DRAWING NUMBER A271



LOT 23 MEP ROOMS - UPPER LEVEL

1 A280 **PARTIAL PLAN**

3/16" = 1'-0"

NORTH

LEGEND:

- X03 — DOOR MARK. REFER TO SCHEDULE ON A701.
- 8" CMU.
- F.D. FLOOR DRAIN. COORDINATE WITH PLUMBING DRAWINGS.
- SPOT ELEVATIONS: TS = TOPPING SLAB; CS = CONCRETE STRUCTURE

DRAWING NOTES:

1. STEP IN STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS ALSO.
2. TOPPING SLAB SYSTEM OVER STRUCTURAL SLAB. OVERALL TOPPING SYSTEM THICKNESS 0.40', UNLESS NOTED OTHERWISE.
3. EDGE OF PLAZA ABOVE.
4. TRANSFORMER PAD. REFER TO SECTIONS 22/S402 AND 42/S403 ALSO.
5. TRANSFORMER (BY DUKE ENERGY).
6. TRANSFORMER SCREEN WALL BY OTHERS.
7. MUSIC VENUE EGRESS CORRIDOR (ELEV. 503.00'). OUTFITTING OF CORRIDOR (MEP, FINISHES, ETC.) BY OTHERS.
8. STOREFRONT FRAMING, DOORS, ETC. BY OTHERS.
9. NEW PERIMETER RAILING. REFER TO 3,4 & 5/A221.
10. RELOCATED PERIMETER RAILING (REFURBISHED AND RELOCATED FROM SOUTH EDGE OF EXISTING LOT 24 GARAGE - BAY 2 TO W19). REFER TO SECTION 3/A221 AND SECTION 10/A211.
11. PAY STATION.

NOTE: SPOT ELEVATION SHOWN ARE AT THE TOP OF THE CONCRETE STRUCTURE, UNLESS NOTED OTHERWISE.

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ISSUE/S	DATE	DESCRIPTION
1	8/8/2019	SCOPING SET
2	8/30/2019	BID PACKAGE #5
3	9/9/2019	BPS FERMIT SET
4	9/23/2019	ADDENDUM #2
5	11/27/2019	BULLETIN #4
6	12/12/2019	BID PACKAGE #6 - DD PRICING
7	12/16/2019	BULLETIN #5
8	01/10/2020	BULLETIN #6
9	1/31/2020	BID PACKAGE #6 - SCOPING SET

DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

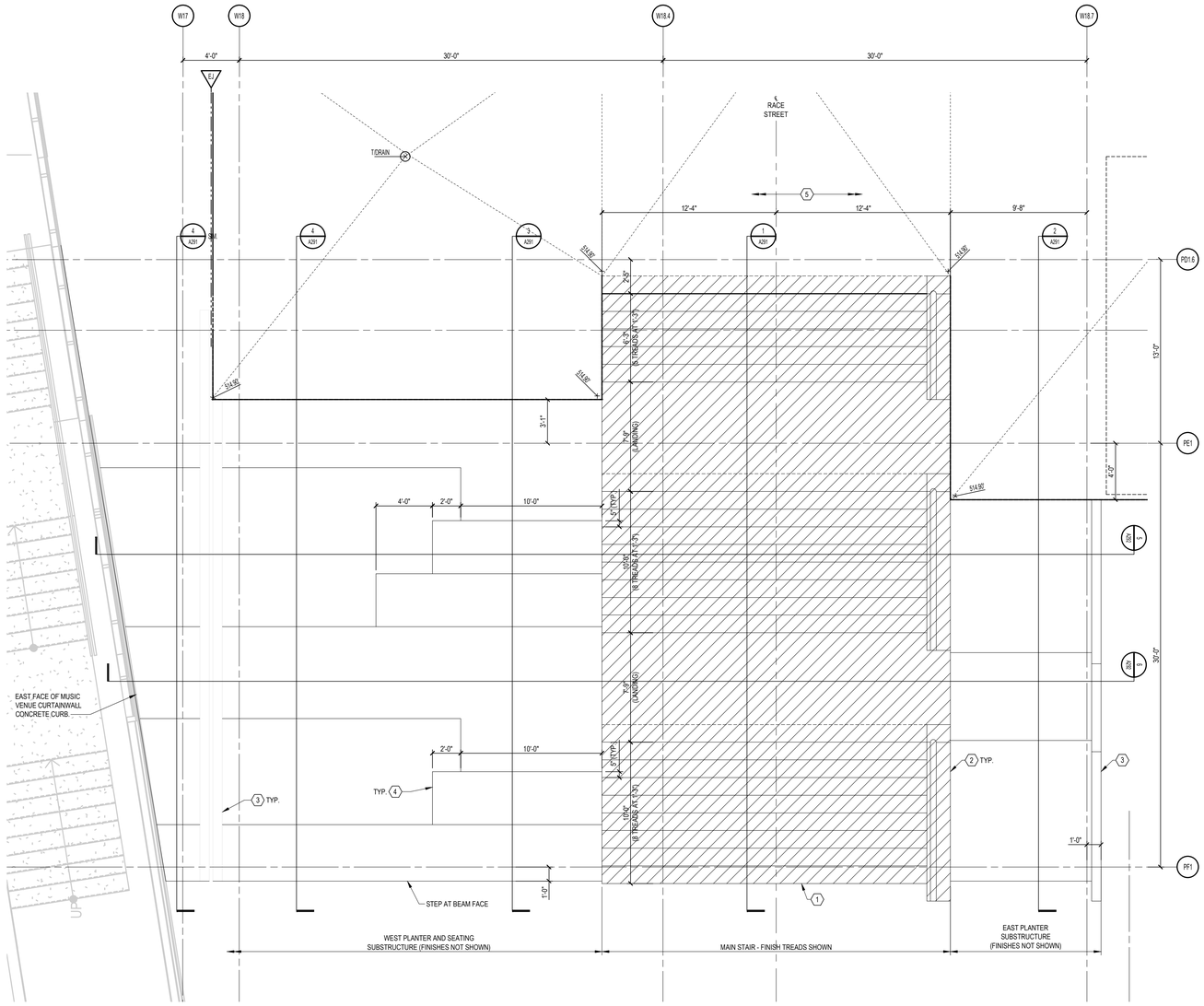
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: ENLARGED PLANS AND DETAILS

JOB NUMBER: 98090.38
DATE: 5/10/2019

DRAWING NUMBER: A280



1 A290 *UPPER RACE STREET STAIR AND PLANTER*

PLAN

1/4" = 1'-0"

LEGEND:

- GRANITE
- EXISTING COLUMN/WALL
- NEW COLUMN/WALL
- EJ — EXPANSION JOINT
- 100.10 — T/CONCRETE SPOT ELEVATIONS
- CRG = CENTRAL RIVERFRONT GARAGE
- E = ELEVATOR
- EX = EXISTING
- ROW = RIGHT-OF-WAY
- OB = OVERBUILD

DRAWING NOTES:

1. GRANITE-CLAD STAIRWAY
2. BIKE RUNNEL
3. PLANTER END WALL
4. CONCRETE SUBSTRUCTURE FOR FUTURE SEATING
5. PLAZA AT TOP OF STAIRS. REFER TO DRAWING A103B.

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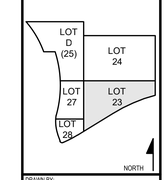
ISSUES

ISSUES		
1	8/22/2019	BID PACKAGE #5
2	9/9/2019	BP5 PERMIT SET
3	9/23/2019	ADDENDUM #2
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/21/2020	BULLETIN #8
6	1/31/2020	BID PACKAGE #6 - SCOPING SET
7	2/21/2020	BID PACKAGE #6



DRAWN BY: P.A.B.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

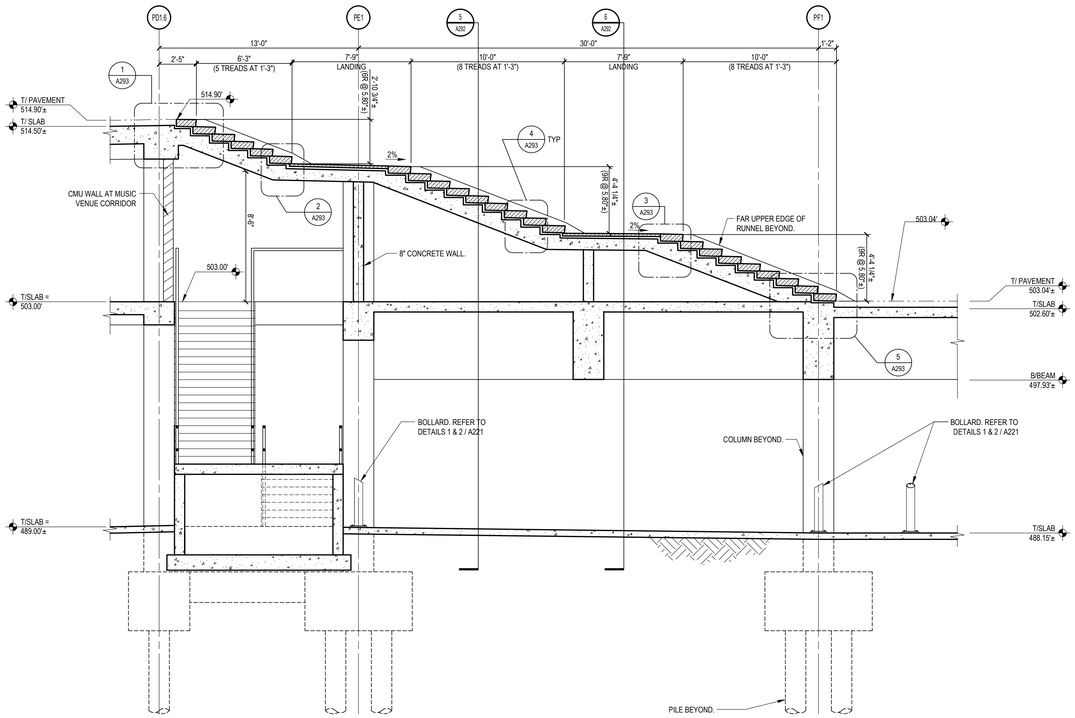
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

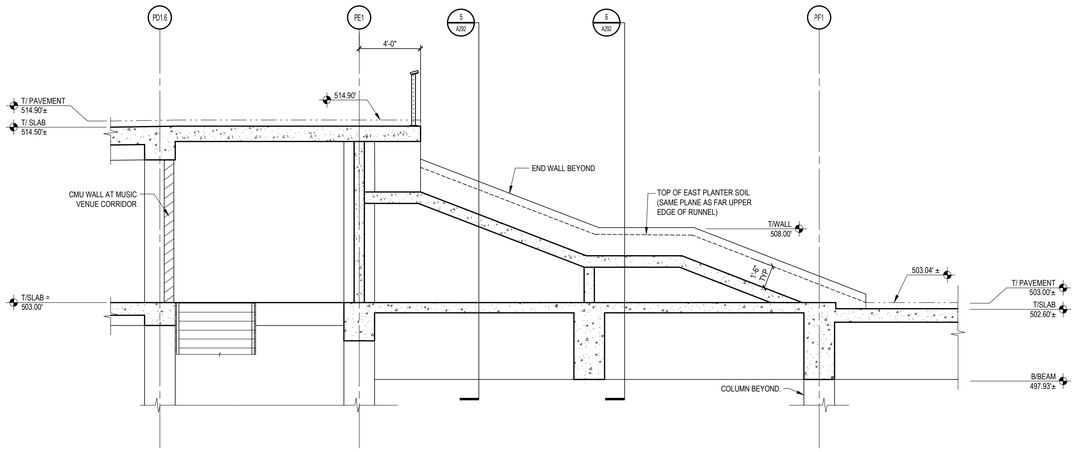
DRAWING TITLE: UPPER RACE STREET STAIR AND PLANTER

JOB NUMBER: 98090.38 DATE: 8/22/2019

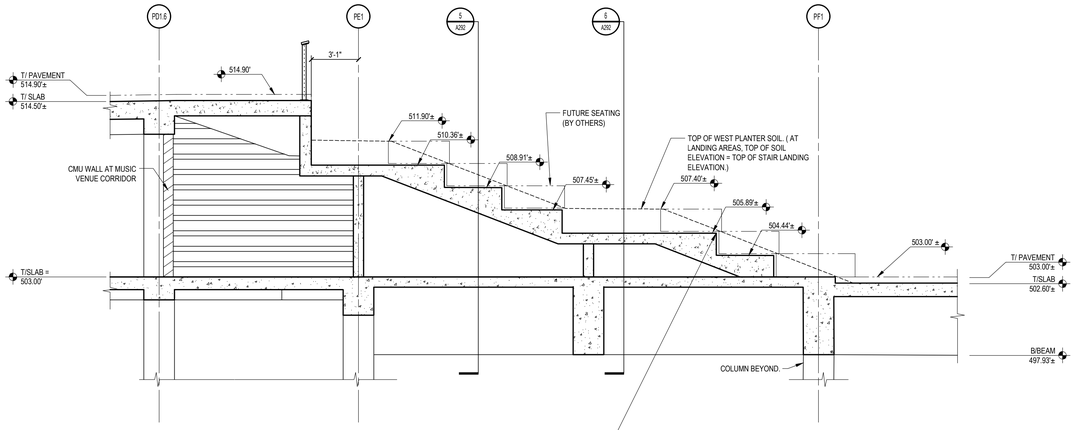
DRAWING NUMBER: A290



1 A291 UPPER RACE STREET STAIR
SECTION
1/4" = 1'-0"

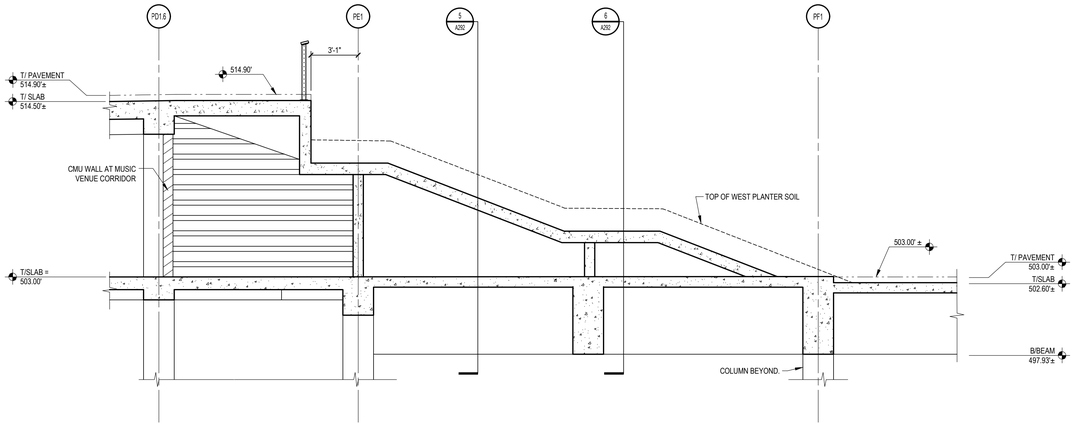


2 A291 UPPER RACE STREET EAST PLANTER
SECTION
1/4" = 1'-0"



3 A291 UPPER RACE STREET SEATING
SECTION
1/4" = 1'-0"

NOTE: ELEVATION AND PLAN LOCATION OF EDGE OF CONCRETE SEATING TREAD/RISER TO MATCH ELEVATION AND PLAN LOCATION OF CORRESPONDING STAIR SUBSTRUCTURE TREAD/RISER IN SECTION 1/A291.



4 A291 UPPER RACE STREET WEST PLANTER
SECTION
1/4" = 1'-0"

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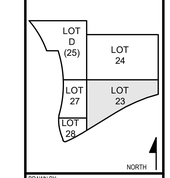
ISSUES		
1	8/22/2019	BID PACKAGE #5
2	9/9/2019	BP5 PERMIT SET
3	9/23/2019	ADDENDUM #2
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	1/21/2020	BULLETIN #8
6	1/31/2020	BID PACKAGE #6 - SCOPING SET
7	2/21/2020	BID PACKAGE #6



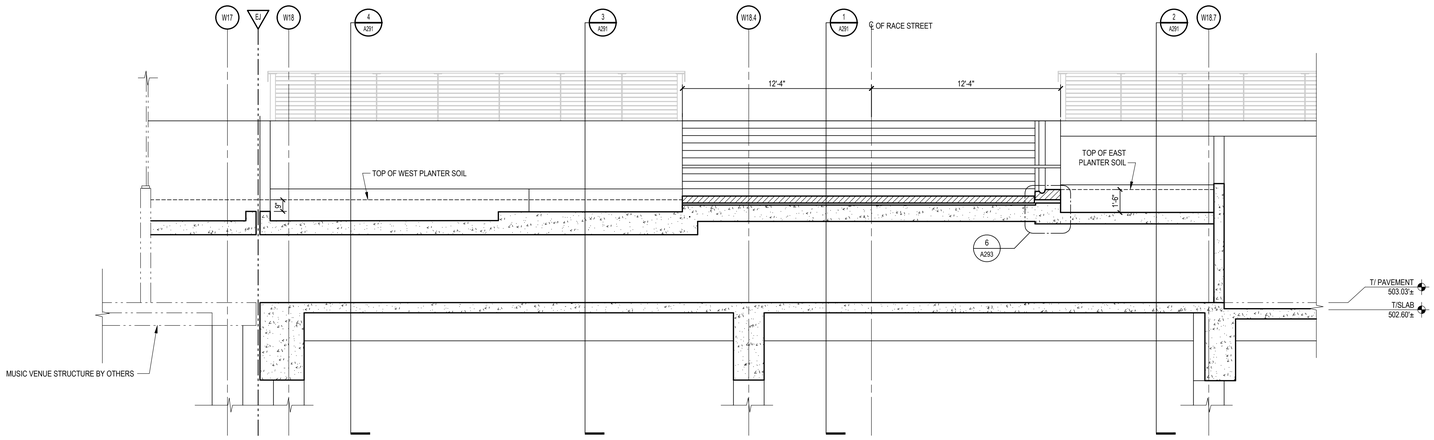
DRAWN BY: P.A.B.
ENGINEER: M.S.M.
CHECKED BY: M.L.H.

THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE
UPPER RACE STREET
STAIR AND PLANTER
SECTIONS

JOB NUMBER 98090.38
DATE 8/22/2019
DRAWING NUMBER A291

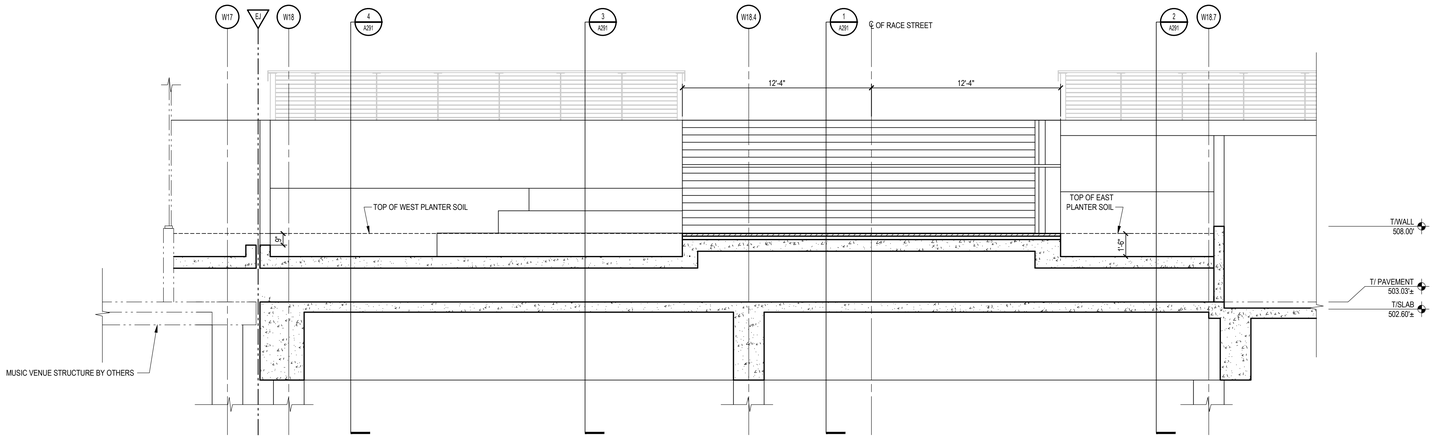


5
A292

UPPER RACE STREET STAIR

SECTION

1/4" = 1'-0"



6
A292

UPPER RACE STREET STAIR

SECTION

1/4" = 1'-0"

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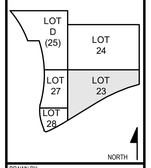
ISSUES

ISSUES		
1	8/22/2019	BID PACKAGE #5
2	9/27/2019	BID PACKAGE #6
3	12/12/2019	BID PACKAGE #6 - BID PRICING
4	1/21/2020	BULLETIN #8
5	1/31/2020	BID PACKAGE #6 - SCOPING SET
6	2/21/2020	BID PACKAGE #6



DRAWN BY: P.A.B.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE

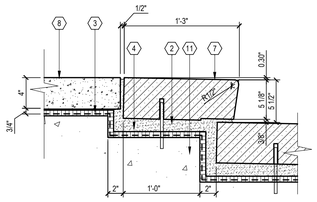
UPPER RACE STREET
STAIR AND PLANTER
SECTIONS

JOB NUMBER: 98090.38

DATE: 8/22/2019

DRAWING NUMBER

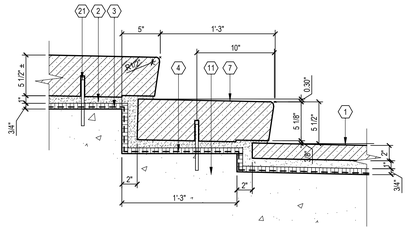
A292



TOP OF RACE STREET STAIR

1 / A293 DETAIL

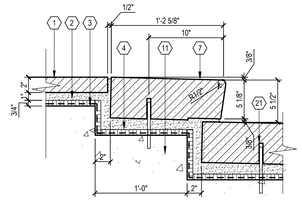
1 1/2" = 1'-0"



TOP OF RACE STREET STAIR LANDING

2 / A293 DETAIL

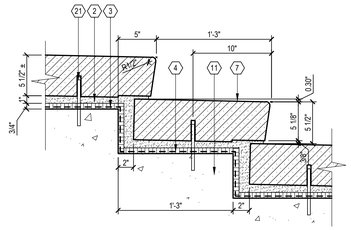
1 1/2" = 1'-0"



BOTTOM OF RACE STREET STAIR LANDING

3 / A293 DETAIL

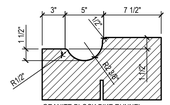
1 1/2" = 1'-0"



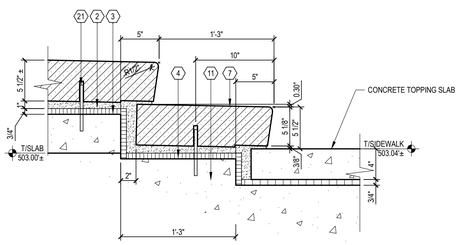
RACE STREET STAIR TREAD

4 / A293 DETAIL

1 1/2" = 1'-0"



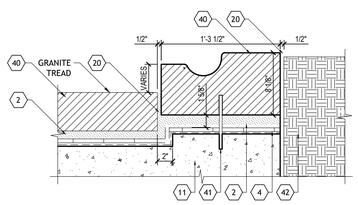
GRANITE BLOCK BIKE RUNNEL



BOTTOM OF RACE STREET STAIR

5 / A293 DETAIL

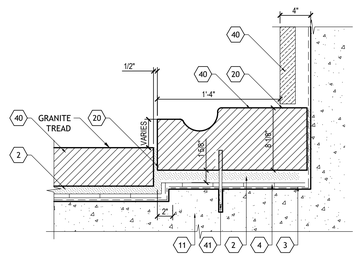
1 1/2" = 1'-0"



BIKE RUNNEL AT PLANTING

6 / A293 DETAIL

1 1/2" = 1'-0"



BIKE RUNNEL AT WALL

7 / A293 DETAIL

1 1/2" = 1'-0"

DRAWING NOTES:

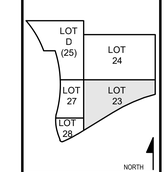
1. GRANITE PAVING
2. LATEX MODIFIED MORTAR SETTING BED
3. WATERPROOFING MEMBRANE AND PROTECTION SHEET
4. DRAINAGE BOARD ASSEMBLY
5. FILTER FABRIC
6. CONCRETE SUPPORT SLAB
7. GRANITE TREAD
8. CONCRETE TOPPING SLAB (SEE PLAN FOR JOINT PATTERN)
9. AGGREGATE BASE
10. PRECAST CONCRETE TREAD
11. STRUCTURAL SLAB
12. 1/8" POLYMETRIC SAND SWEPT JOINT
13. MULCH
14. PLANTING BED SOIL
15. PLANTING SOIL
16. ROOT BARRIER
17. RIGID INSULATION
18. S.S. ANCHOR
19. AIR SPACE
20. POLYSULFIDE JOINT CAULK
21. 3/8" x 6" L S.S. DOWELS, (2) PER PIECE LOCATED AT QTR. PTS.
22. PROVIDE COMPRESSION SEAL.
23. PROVIDE 1/8" THICK STAINLESS STEEL BENT PLATE
24. PROVIDE ANCHOR WITH SELF TAPPING CONCRETE SCREWS
25. PROVIDE CLOSED CELL BACKER ROD
    PROVIDE PREFORMED REINFORCING STRIP
26. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN
27. ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION BOARD WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON THE HIGH SIDE OF THE JOINT
28. PROVIDE PROTECTION BOARD
29. WING COMPRESSION SEAL
30. PROVIDE CHAMFER RUSTICATION STRIP TO PROVIDE CLEAN JOINT LINE
31. PROVIDE CONTINUOUS TOOLED JOINT TO AID REMOVAL OF EDGE SECTION OF TOPPING FOR RAIL REMOVAL WATERPROOFING EXTENSION, ETC.
32. PROVIDE 1/2"W x 1/2"D TOOLED RECESS FOR TERMINATION OF WATERPROOFING
33. FUTURE GRANITE COPING
34. FUTURE SANDSTONE WALL CLADDING
35. SUPPORT ANGLE (IF NECESSARY)
36. 2" EXPANSION JOINT BY OTHERS
37. GRANITE SEAT
38. GRANITE CLAD
39. WOOD SEAT
40. BROWN GRANITE, DIAMOND 10 FINISH
41. 1/8" x 6" S.S. PIN, EPOXY GROUT, (2) PER STONE
42. PLANTING SOIL.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES

1	8/23/2019	ADDENDUM #2
2	9/27/2019	BIDDING #6 - BID PRICING
3	12/12/2019	BULLETIN #6
4	1/31/2020	BID PACKAGE #6 - SCOPING SET
5	2/21/2020	BID PACKAGE #6



DRAWN BY: P.A.B.

ENGINEER: M.S.M.

CHECKED BY: M.L.H.

THE BANKS PHASE 3B

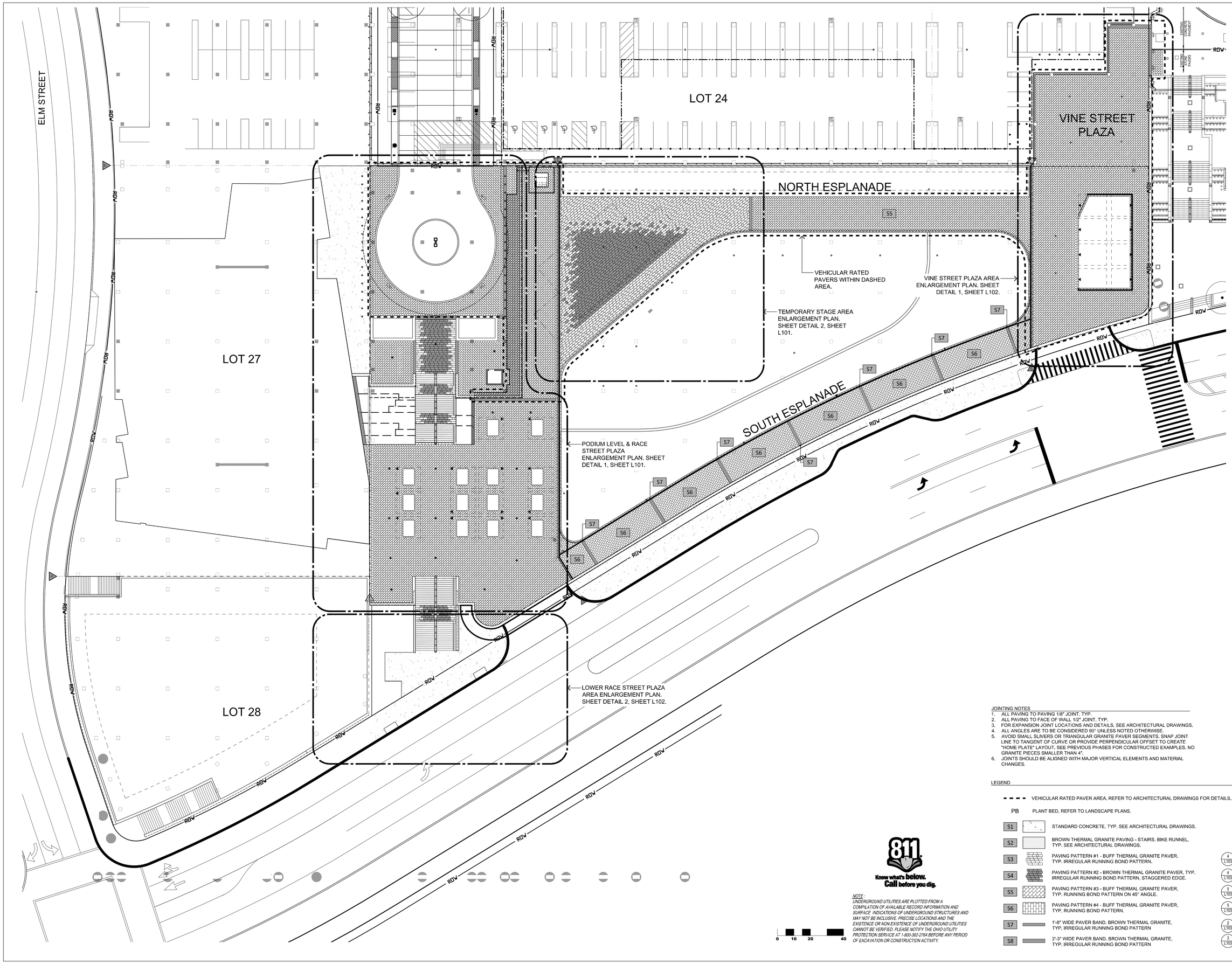
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: UPPER RACE STREET STAIR AND PLANTER SECTIONS

JOB NUMBER: 98090.38

DATE: 9/23/2019

DRAWING NUMBER: A293



JOINTING NOTES

1. ALL PAVING TO PAVING 1/8" JOINT, TYP.
2. ALL PAVING TO FACE OF WALL 1/2" JOINT, TYP.
3. FOR EXPANSION JOINT LOCATIONS AND DETAILS, SEE ARCHITECTURAL DRAWINGS.
4. ALL ANGLES ARE TO BE CONSIDERED 90° UNLESS NOTED OTHERWISE.
5. AVOID SMALL SLIVERS OR TRIANGULAR GRANITE PAVER SEGMENTS. SNAP JOINT LINE TO TANGENT OF CURVE OR PROVIDE PERPENDICULAR OFFSET TO CREATE "HOME PLATE" LAYOUT. SEE PREVIOUS PHASES FOR CONSTRUCTED EXAMPLES. NO GRANITE PIECES SMALLER THAN 4".
6. JOINTS SHOULD BE ALIGNED WITH MAJOR VERTICAL ELEMENTS AND MATERIAL CHANGES.

LEGEND

- - - -	VEHICULAR RATED PAVER AREA, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.	
PB	PLANT BED, REFER TO LANDSCAPE PLANS.	
S1	STANDARD CONCRETE, TYP. SEE ARCHITECTURAL DRAWINGS.	
S2	BROWN THERMAL GRANITE PAVING - STAIRS, BIKE RUNNEL, TYP. SEE ARCHITECTURAL DRAWINGS.	
S3	PAVING PATTERN #1 - BUFF THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN.	4 / L103
S4	PAVING PATTERN #2 - BROWN THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN, STAGGERED EDGE.	4 / L103
S5	PAVING PATTERN #3 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN ON 45° ANGLE.	5 / L103
S6	PAVING PATTERN #4 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN.	5 / L103
S7	1'-8" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	2 / L103
S8	2'-3" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	3 / L103

811 Know what's below. Call before you dig.

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	12/12/2019	BID PACKAGE #B - DD PRICING
2	2/21/2020	BID PACKAGE #B

LOT D (25) · LOT 24 · LOT 27 · LOT 23 · LOT 28 · NORTH

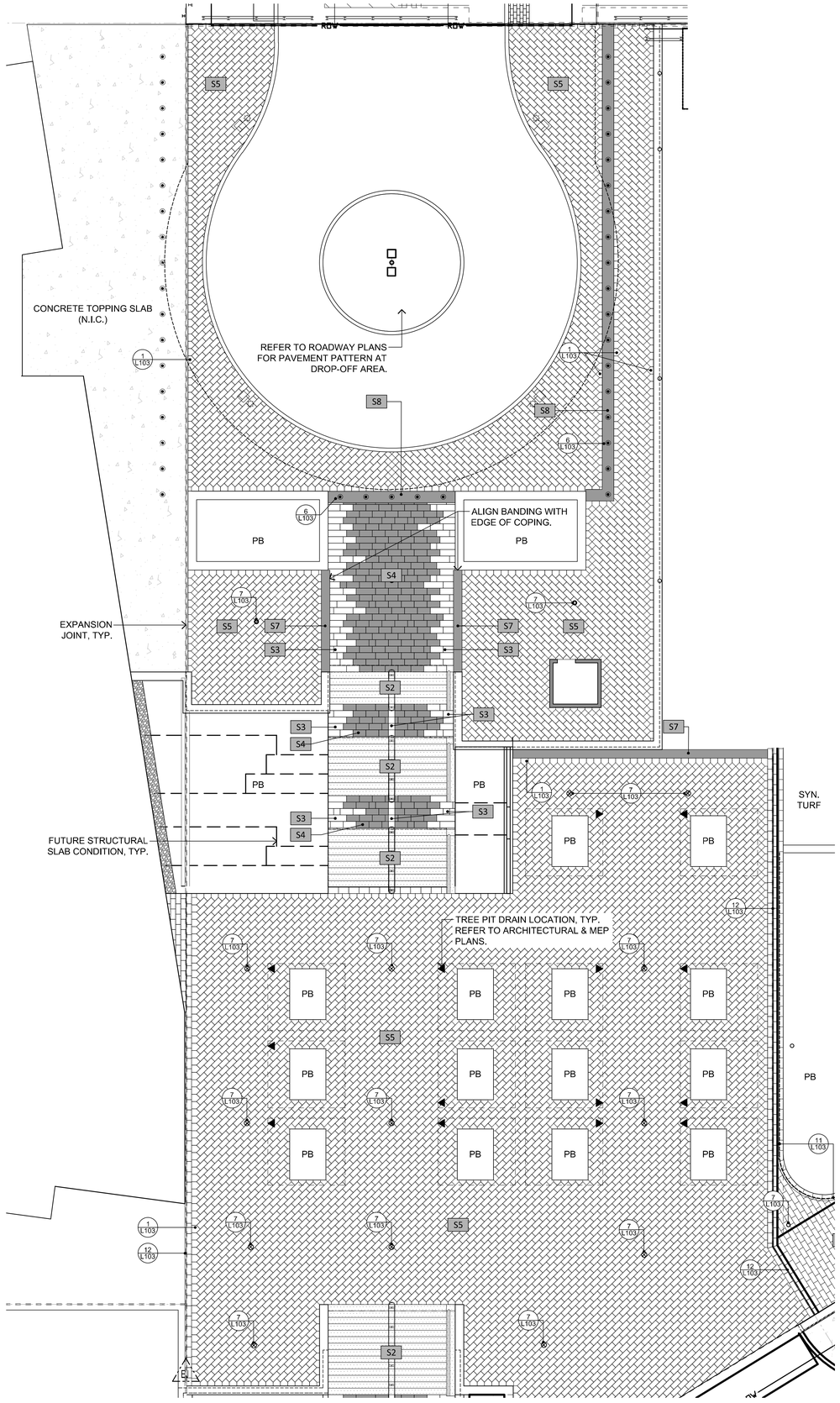
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

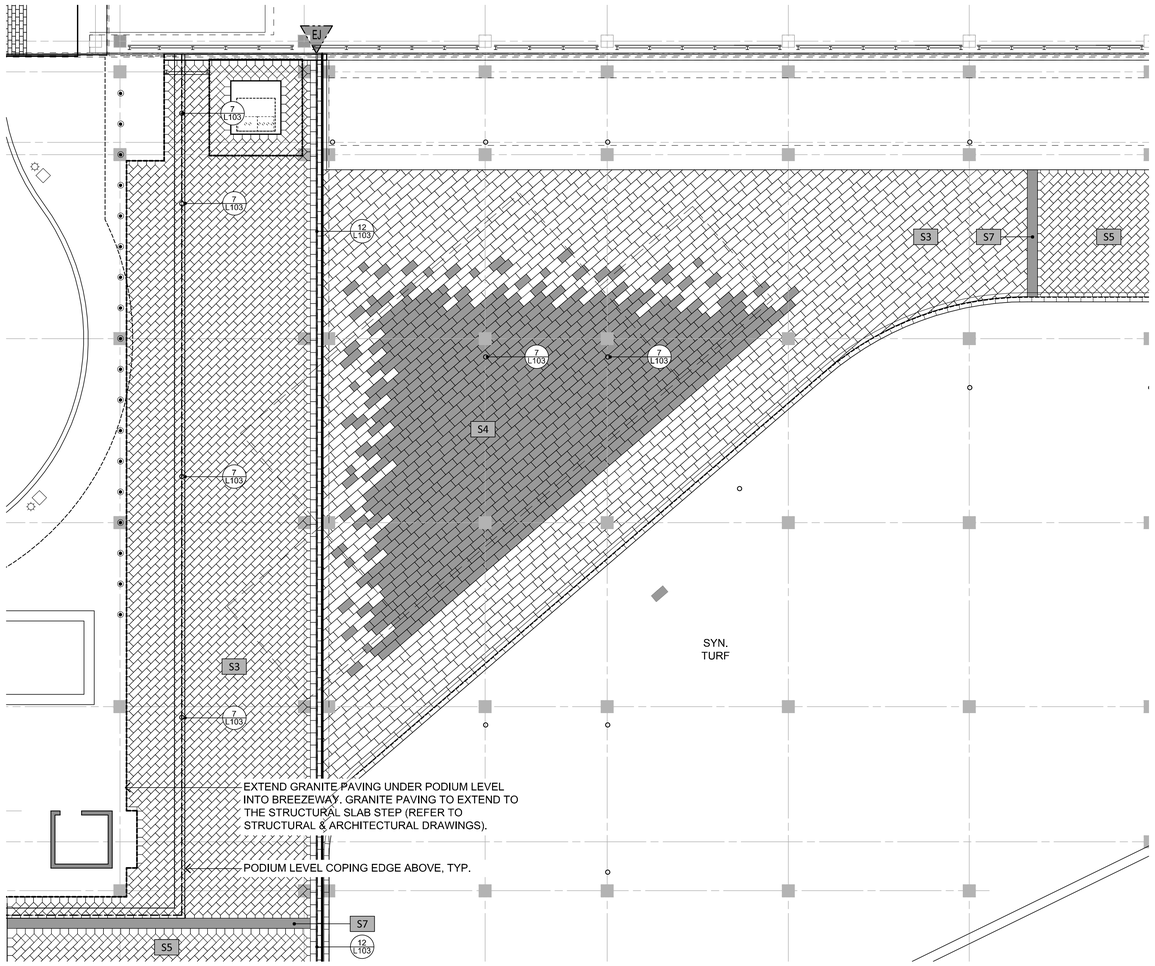
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
HARDSCAPE PLAN

JOB NUMBER 98090.38
DATE
DRAWING NUMBER **L100**



1 PODIUM LEVEL AND RACE STREET PLAZA ENLARGEMENT PLAN
SCALE: 1" = 10'-0"



2 TEMPORARY STAGE AREA ENLARGEMENT PLAN
SCALE: 1" = 10'-0"

JOINTING NOTES

1. ALL PAVING TO PAVING 1/8" JOINT, TYP.
2. ALL PAVING TO FACE OF WALL 1/2" JOINT, TYP.
3. FOR EXPANSION JOINT LOCATIONS AND DETAILS SEE ARCHITECTURAL DRAWINGS.
4. ALL ANGLES ARE TO BE CONSIDERED 90° UNLESS NOTED OTHERWISE.
5. AVOID SMALL SLIVERS OR TRIANGULAR GRANITE PAVER SEGMENTS. SNAP JOINT LINE TO TANGENT OF CURVE OR PROVIDE PERPENDICULAR OFFSET TO CREATE "HOME PLATE" LAYOUT. SEE PREVIOUS PHASES FOR CONSTRUCTED EXAMPLES. NO GRANITE PIECES SMALLER THAN 4".
6. JOINTS SHOULD BE ALIGNED WITH MAJOR VERTICAL ELEMENTS AND MATERIAL CHANGES.

LEGEND

- - - - VEHICULAR RATED PAVER AREA, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

PB PLANT BED, REFER TO LANDSCAPE PLANS.

S1	STANDARD CONCRETE, TYP. SEE ARCHITECTURAL DRAWINGS.	
S2	BROWN THERMAL GRANITE PAVING - STAIRS, BIKE RUNNEL, TYP. SEE ARCHITECTURAL DRAWINGS.	
S3	PAVING PATTERN #1 - BUFF THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN.	4 L103
S4	PAVING PATTERN #2 - BROWN THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN, STAGGERED EDGE.	4 L103
S5	PAVING PATTERN #3 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN ON 45° ANGLE.	5 L103
S6	PAVING PATTERN #4 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN.	5 L103
S7	1'-8" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	2 L103
S8	2'-3" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	3 L103

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HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS

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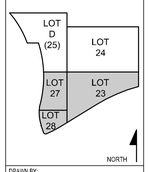
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2961

ISSUES		
1	12/12/2019	BID PACKAGE #B - DD PRICING
2	2/21/2020	BID PACKAGE #B



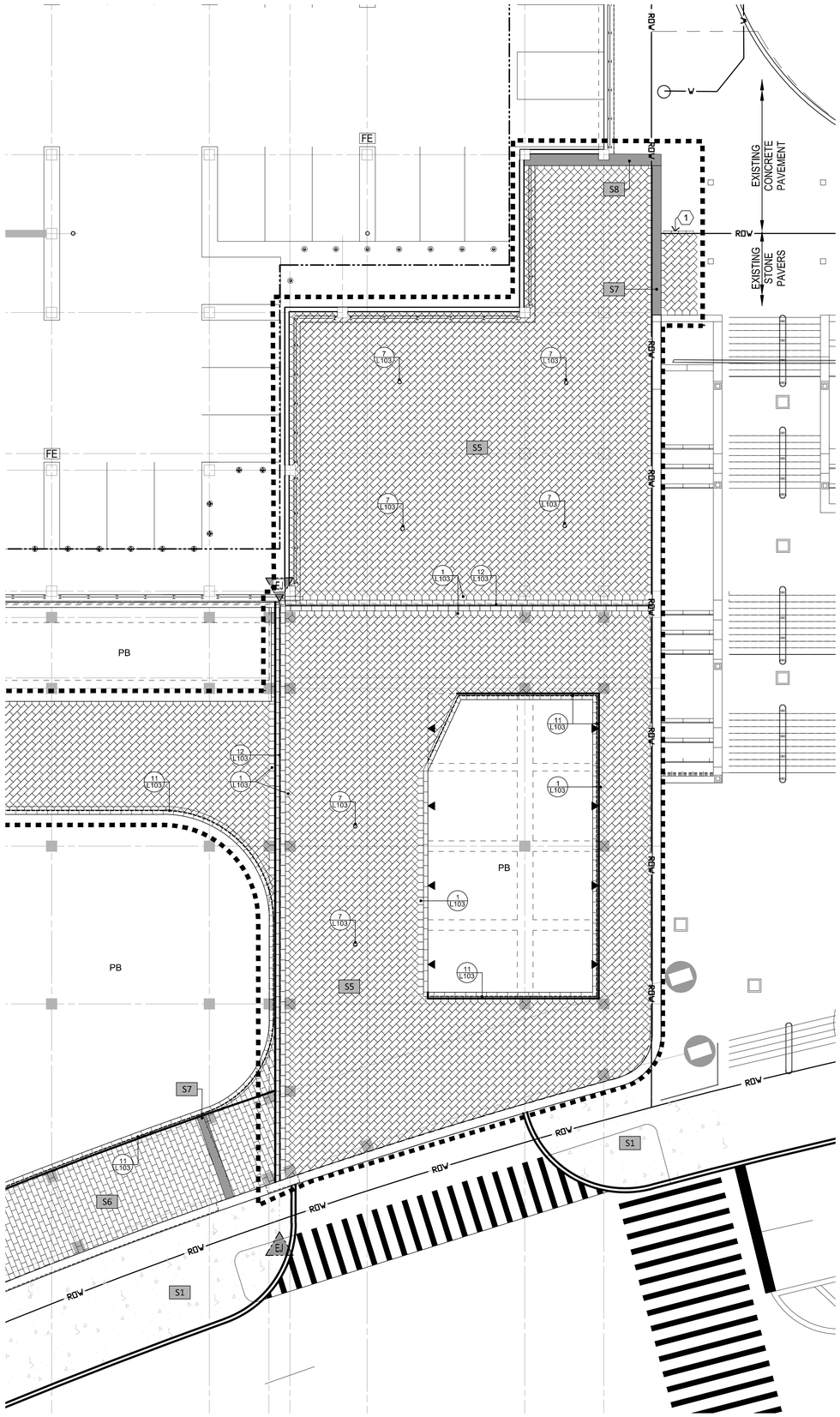
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS
PHASE 3B

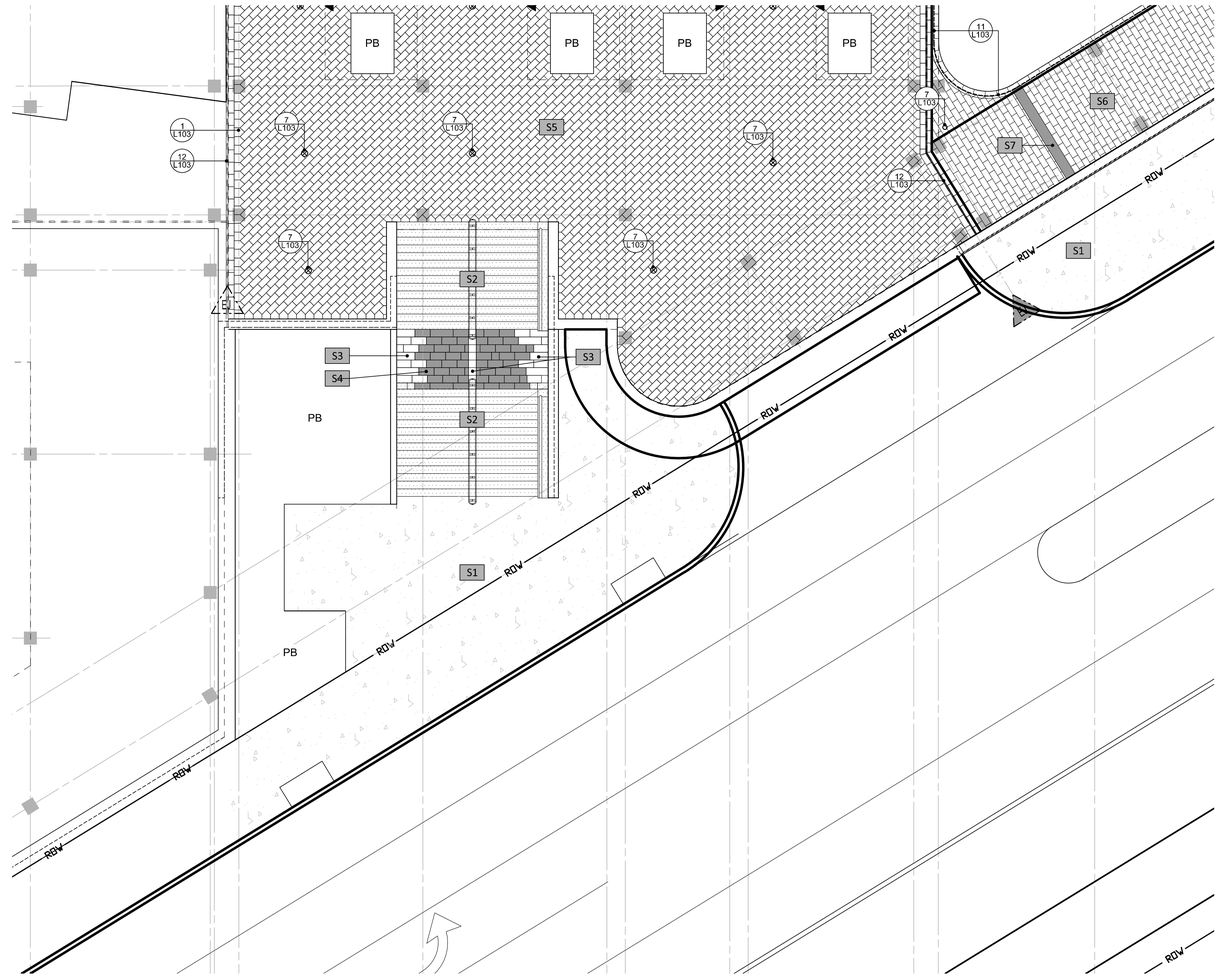
LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE
HARDSCAPE ENLARGEMENT PLANS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER **L101**



1 VINE STREET PLAZA ENLARGEMENT PLAN
SCALE: 1" = 10'-0"



2 LOWER RACE STREET PLAZA ENLARGEMENT PLAN
SCALE: 1" = 10'-0"

CONSTRUCTION NOTES:

1. DEMOLISH EXISTING CONCRETE SIDEWALK AND PAVER BAND. INFILL NEW PAVERS TO MEET EXISTING. NEW PAVER BAND TO BE ALIGNED WITH EDGE OF EXISTING WALL.

JOINTING NOTES

1. ALL PAVING TO PAVING 1/8" JOINT, TYP.
2. ALL PAVING TO FACE OF WALL 1/2" JOINT, TYP.
3. FOR EXPANSION JOINT LOCATIONS AND DETAILS SEE ARCHITECTURAL DRAWINGS.
4. ALL ANGLES ARE TO BE CONSIDERED 90° UNLESS NOTED OTHERWISE.
5. AVOID SMALL SLIVERS OR TRIANGULAR GRANITE PAVER SEGMENTS. SNAP JOINT LINE TO TANGENT OF CURVE OR PROVIDE PERPENDICULAR OFFSET TO CREATE "HOME PLATE" LAYOUT. SEE PREVIOUS PHASES FOR CONSTRUCTED EXAMPLES. NO GRANITE PIECES SMALLER THAN 4".
6. JOIN'S SHOULD BE ALIGNED WITH MAJOR VERTICAL ELEMENTS AND MATERIAL CHANGES.

LEGEND

- - - - VEHICULAR RATED PAVER AREA, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

PB PLANT BED, REFER TO LANDSCAPE PLANS.

S1	STANDARD CONCRETE, TYP. SEE ARCHITECTURAL DRAWINGS.	
S2	BROWN THERMAL GRANITE PAVING - STAIRS, BIKE RUNNEL, TYP. SEE ARCHITECTURAL DRAWINGS.	
S3	PAVING PATTERN #1 - BUFF THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN.	4 L103
S4	PAVING PATTERN #2 - BROWN THERMAL GRANITE PAVER, TYP. IRREGULAR RUNNING BOND PATTERN, STAGGERED EDGE.	4 L103
S5	PAVING PATTERN #3 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN ON 45° ANGLE.	5 L103
S6	PAVING PATTERN #4 - BUFF THERMAL GRANITE PAVER, TYP. RUNNING BOND PATTERN.	5 L103
S7	1'-8" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	2 L103
S8	2'-3" WIDE PAVER BAND. BROWN THERMAL GRANITE, TYP. IRREGULAR RUNNING BOND PATTERN	3 L103

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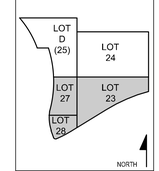
Fax: (513) 241-2981

ISSUES:		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	2/21/2020	BID PACKAGE #6



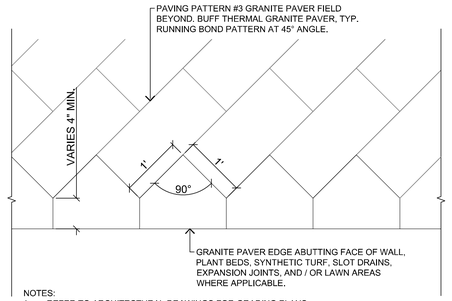
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

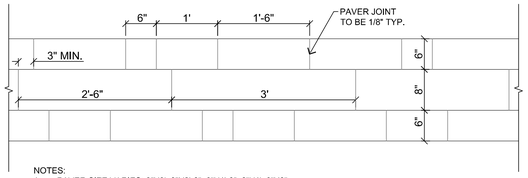
DRAWING TITLE
HARDSCAPE ENLARGEMENT PLANS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER
L102



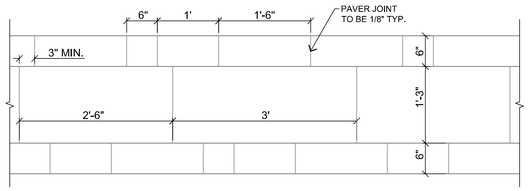
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

1 GRANITE PAVER EDGE CONDITION #1
SCALE: 1" = 1'-0"



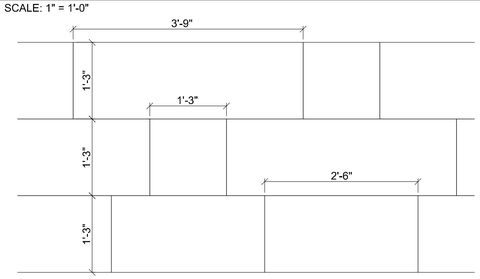
NOTES:
1. PAVER SIZE VARIES: 8"X3', 8"X2'-6", 6"X1'-6", 6"X1', 6"X6".
2. MINIMUM JOINT OVERLAP IS 3".
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

2 1'-8" GRANITE PAVER BAND
SCALE: 1" = 1'-0"



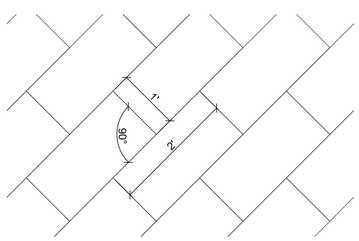
NOTES:
1. PAVER SIZE VARIES: 1'-3"X3', 1'-3"X2'-6", 6"X1'-6", 6"X1', 6"X6".
2. MINIMUM JOINT OVERLAP IS 3".
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

3 2'-3" GRANITE PAVER BAND
SCALE: 1" = 1'-0"



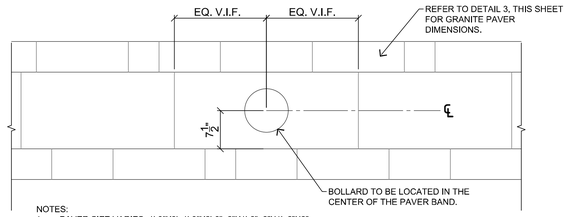
NOTES:
1. PAVER SIZE VARIES: 1'-3"X3'-9", 1'-3"X2'-6", 1'-3"X1'-3".
2. MINIMUM JOINT OVERLAP IS 6".
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

4 PAVING PATTERN #1 & #2
SCALE: 1" = 1'-0"



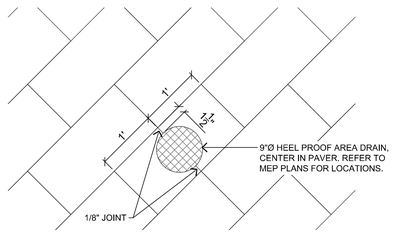
NOTES:
1. PAVER PATTERN IS ROTATED TO 90° ANGLE AT SOUTH ESPLANADE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

5 PAVING PATTERN #3 & #4
SCALE: 1" = 1'-0"



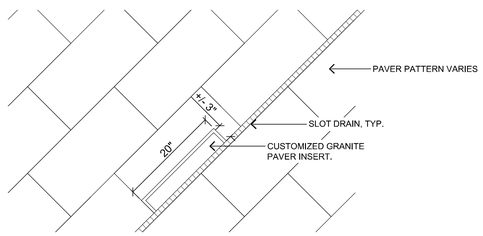
NOTES:
1. PAVER SIZE VARIES: 1'-3"X3', 1'-3"X2'-6", 6"X1'-6", 6"X1', 6"X6".
2. MINIMUM JOINT OVERLAP IS 3".
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

6 2'-3" GRANITE PAVER BAND AROUND BOLLARD AT PODIUM LEVEL
SCALE: 1" = 1'-0"



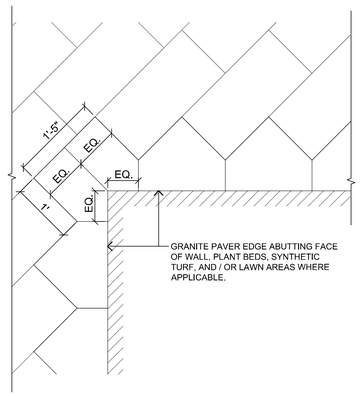
NOTES:
1. DESIGN INTENT IS TO CENTER AREA DRAIN IN PAVER FIELD WHERE APPLICABLE. VERIFY LOCATIONS ON MEP PLANS AND IN THE FIELD. SUBMIT SHOP DRAWINGS OF GRANITE PAVER LAYOUT WITH DRAIN LOCATIONS INDICATED.
2. REFER TO ARHCITECTURAL DRAWINGS FOR GRADING PLANS.

7 GRANITE PAVING BAND AROUND AREA DRAIN
SCALE: 1" = 1'-0"



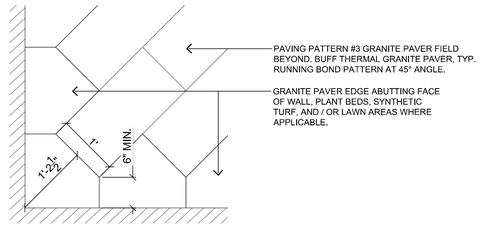
NOTES:
1. CENTER AREA DRAIN IN PAVER. VERIFY LOCATIONS ON MEP PLANS AND IN THE FIELD.
2. REFER TO MEP PLANS FOR SLOT DRAIN AND CLEANOUT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

8 PAVER AT SLOT DRAIN CLEANOUT ACCESS
SCALE: 1" = 1'-0"



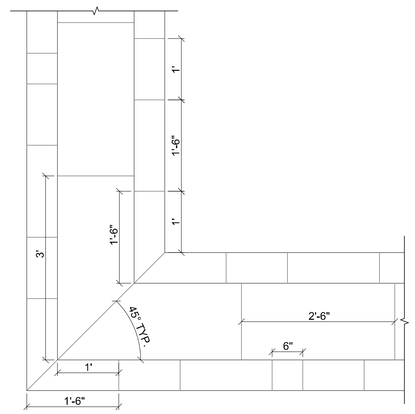
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

9 GRANITE PAVER EDGE CONDITION #2
SCALE: 1" = 1'-0"



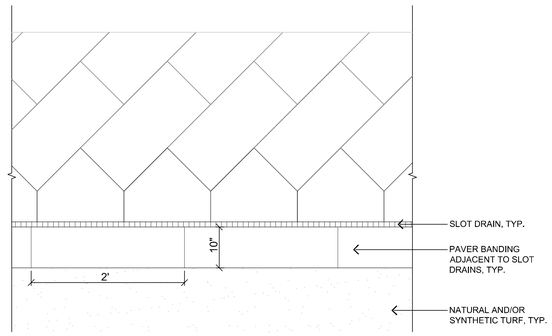
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

10 GRANITE PAVER EDGE CONDITION #3
SCALE: 1" = 1'-0"



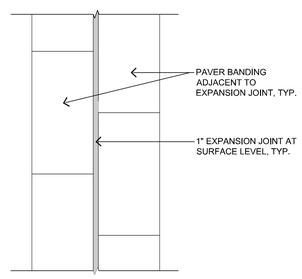
NOTES:
1. PAVER SIZE VARIES: 1'-3"X3', 1'-3"X2'-6", 6"X1'-6", 6"X1', 6"X6".
2. MINIMUM JOINT OVERLAP IS 3".
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

11 2'-3" GRANITE PAVER BAND AT CORNER
SCALE: 1" = 1'-0"



NOTES:
1. PAVER SIZE: 10"X2'
2. PAVER BAND COLOR TO BE BROWN THERMAL GRANITE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.
4. REFER TO MEP DRAWINGS FOR SLOT DRAIN LOCATIONS.

11 PAVER BAND AT SLOT DRAIN
SCALE: 1" = 1'-0"



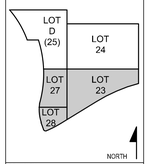
NOTES:
1. PAVER SIZE: 1'X2'
2. PAVER BAND COLOR TO BE BUFF THERMAL GRANITE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.

12 PAVER BAND AT EXPANSION JOINT
SCALE: 1" = 1'-0"

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	12/12/2019	BID PACKAGE #6: CD.3 PRICING
2	2/21/2020	BID PACKAGE #8



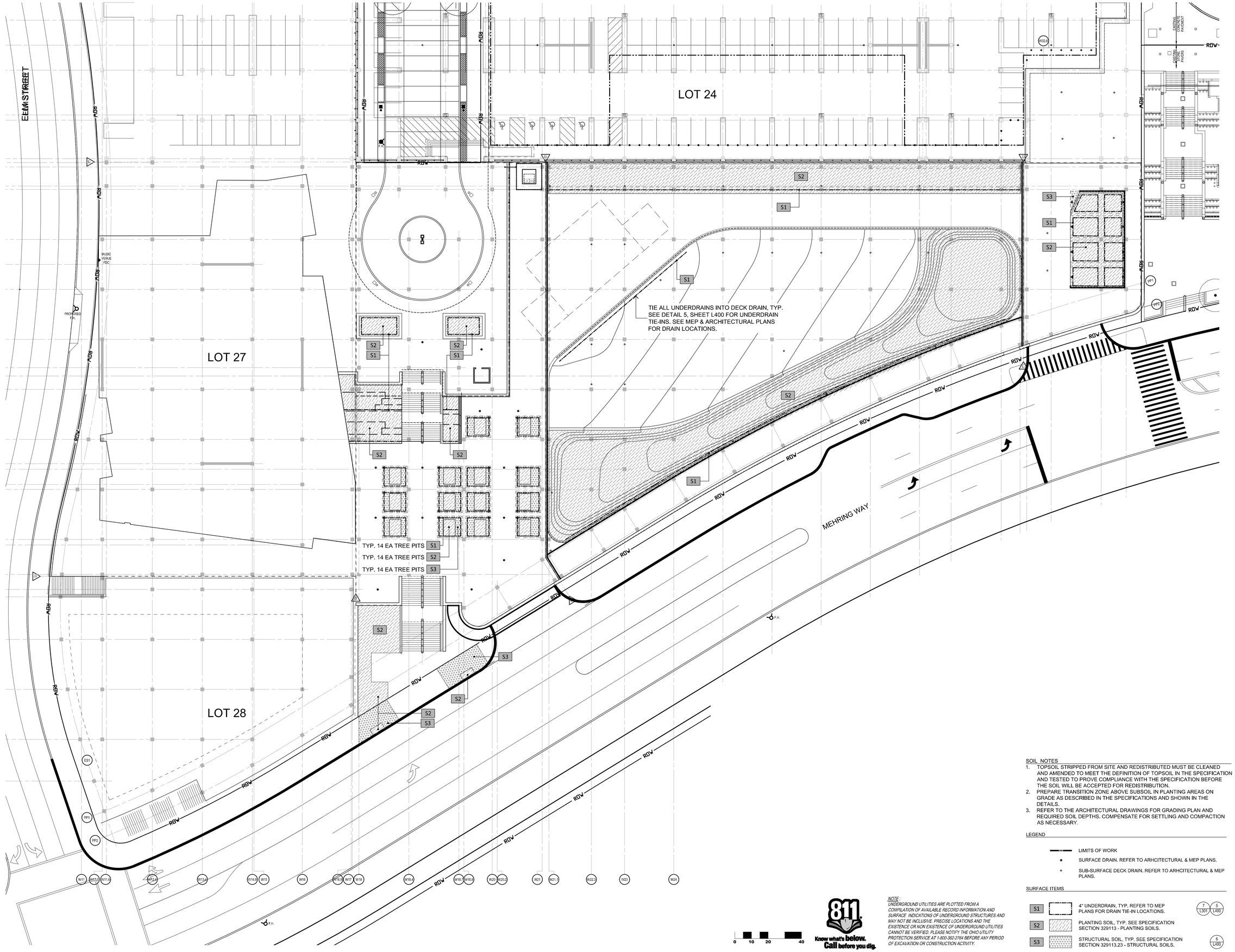
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
HARDSCAPE DETAILS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER **L103**



SOIL NOTES

1. TOPSOIL STRIPPED FROM SITE AND REDISTRIBUTED MUST BE CLEANED AND AMENDED TO MEET THE DEFINITION OF TOPSOIL IN THE SPECIFICATION AND TESTED TO PROVE COMPLIANCE WITH THE SPECIFICATION BEFORE THE SOIL WILL BE ACCEPTED FOR REDISTRIBUTION.
2. PREPARE TRANSITION ZONE ABOVE SUBSOIL IN PLANTING AREAS ON GRADE AS DESCRIBED IN THE SPECIFICATIONS AND SHOWN IN THE DETAILS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR GRADING PLAN AND REQUIRED SOIL DEPTHS. COMPENSATE FOR SETTLING AND COMPACTION AS NECESSARY.

LEGEND

- LIMITS OF WORK
- SURFACE DRAIN. REFER TO ARHCITECTURAL & MEP PLANS.
- SUB-SURFACE DECK DRAIN. REFER TO ARHCITECTURAL & MEP PLANS.

SURFACE ITEMS

S1		4" UNDERDRAIN, TYP. REFER TO MEP PLANS FOR DRAIN TIE-IN LOCATIONS.	7/L301 5/L400
S2		PLANTING SOIL, TYP. SEE SPECIFICATION SECTION 329113 - PLANTING SOILS.	
S3		STRUCTURAL SOIL, TYP. SEE SPECIFICATION SECTION 329113.23 - STRUCTURAL SOILS.	6/L400

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

811 Know what's below. Call before you dig.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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Consulting Engineers
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Fax: (513) 241-2981

ISSUES		
1	12/12/2019	BID PACKAGE #6 - CD PERCING
2	2/21/2020	BID PACKAGE #6

LOT D (25) | LOT 24 | LOT 27 | LOT 23 | LOT 28 | NORTH

DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LANDSCAPE SOILS PLAN

JOB NUMBER 98090.38
DATE
DRAWING NUMBER **L200**

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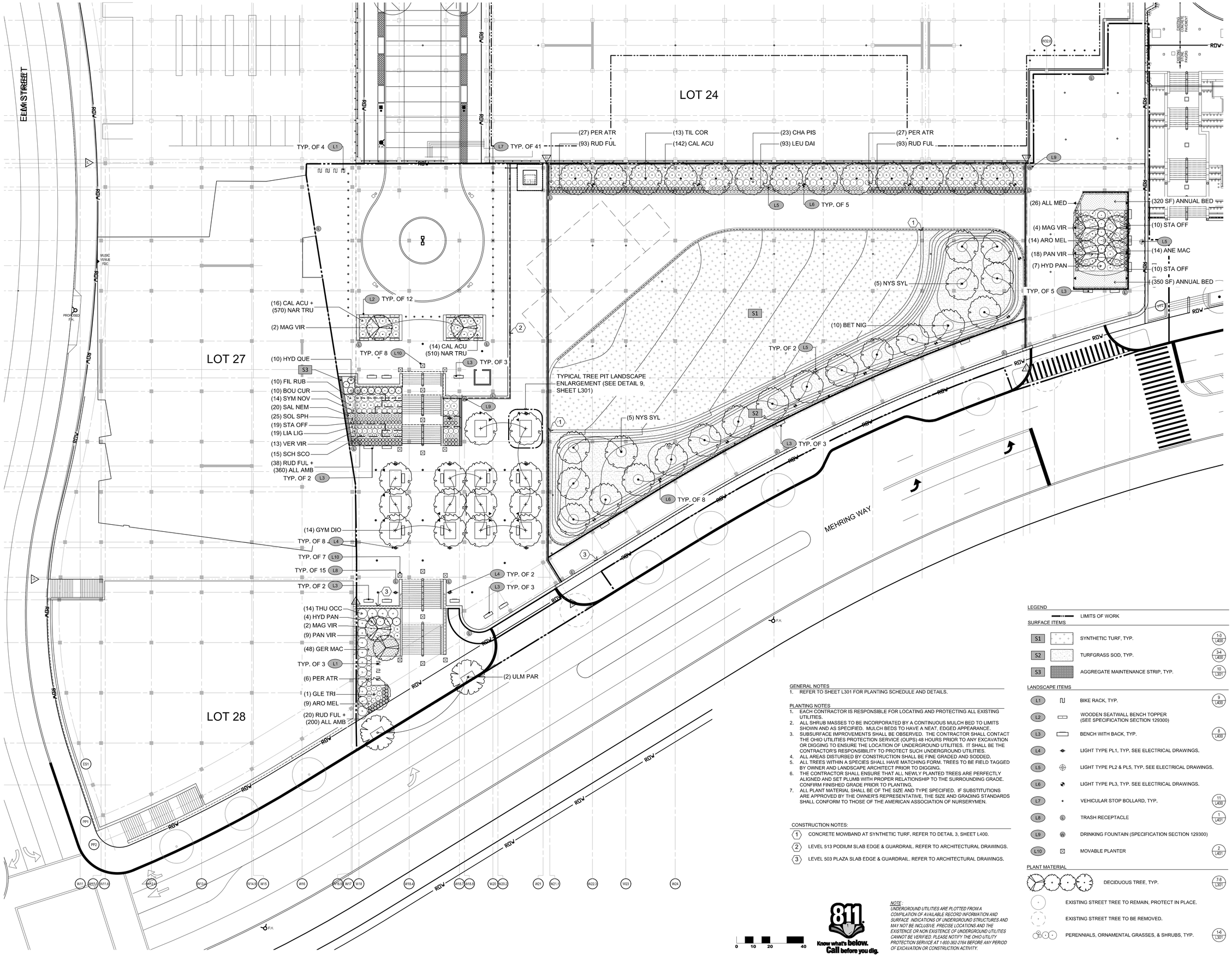

LEGEND

LIMITS OF WORK

SURFACE ITEMS

S1	SYNTHETIC TURF, TYP.	1-3 / L400
S2	TURFGRASS SOD, TYP.	3-4 / L400
S3	AGGREGATE MAINTENANCE STRIP, TYP.	10 / L301

LANDSCAPE ITEMS

L1	BIKE RACK, TYP.	9 / L400
L2	WOODEN SEATWALL BENCH TOPPER (SEE SPECIFICATION SECTION 129300)	
L3	BENCH WITH BACK, TYP.	8 / L400
L4	LIGHT TYPE PL1, TYP, SEE ELECTRICAL DRAWINGS.	
L5	LIGHT TYPE PL2 & PL5, TYP, SEE ELECTRICAL DRAWINGS.	
L6	LIGHT TYPE PL3, TYP. SEE ELECTRICAL DRAWINGS.	
L7	VEHICULAR STOP BOLLARD, TYP.	11 / L400
L8	TRASH RECEPTACLE	1 / L401
L9	DRINKING FOUNTAIN (SPECIFICATION SECTION 129300)	
L10	MOVABLE PLANTER	2 / L401

PLANT MATERIAL

	DECIDUOUS TREE, TYP.	7-8 / L301
	EXISTING STREET TREE TO REMAIN, PROTECT IN PLACE.	
	EXISTING STREET TREE TO BE REMOVED.	
	PERENNIALS, ORNAMENTAL GRASSES, & SHRUBS, TYP.	1-6 / L301

GENERAL NOTES

1. REFER TO SHEET L301 FOR PLANTING SCHEDULE AND DETAILS.

PLANTING NOTES

1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. ALL SHRUB MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. MULCH BEDS TO HAVE A NEAT, EDGED APPEARANCE.
3. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE FINE GRADED AND SODDED.
5. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM. TREES TO BE FIELD TAGGED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO DIGGING.
6. THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING.
7. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

CONSTRUCTION NOTES:

1. CONCRETE MOWBAND AT SYNTHETIC TURF, REFER TO DETAIL 3, SHEET L400.
2. LEVEL 513 PODIUM SLAB EDGE & GUARDRAIL. REFER TO ARCHITECTURAL DRAWINGS.
3. LEVEL 503 PLAZA SLAB EDGE & GUARDRAIL. REFER TO ARCHITECTURAL DRAWINGS.

0 10 20 40

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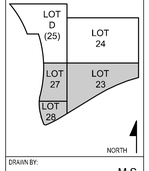
ISSUES		
1	12/12/2019	BID PACKAGE #6 - CD PRICING
2	2/21/2020	BID PACKAGE #6



DRAWN BY: M.S.

ENGINEER:

CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

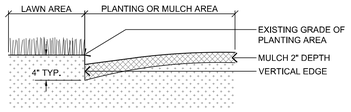
LANDSCAPE PLAN

JOB NUMBER 98090.38

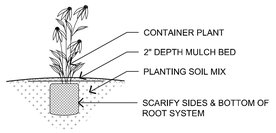
DATE

DRAWING NUMBER

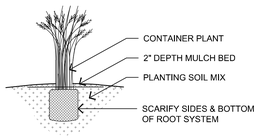
L300



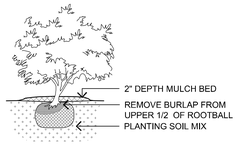
① PLANT BED EDGING
SCALE: N.T.S.



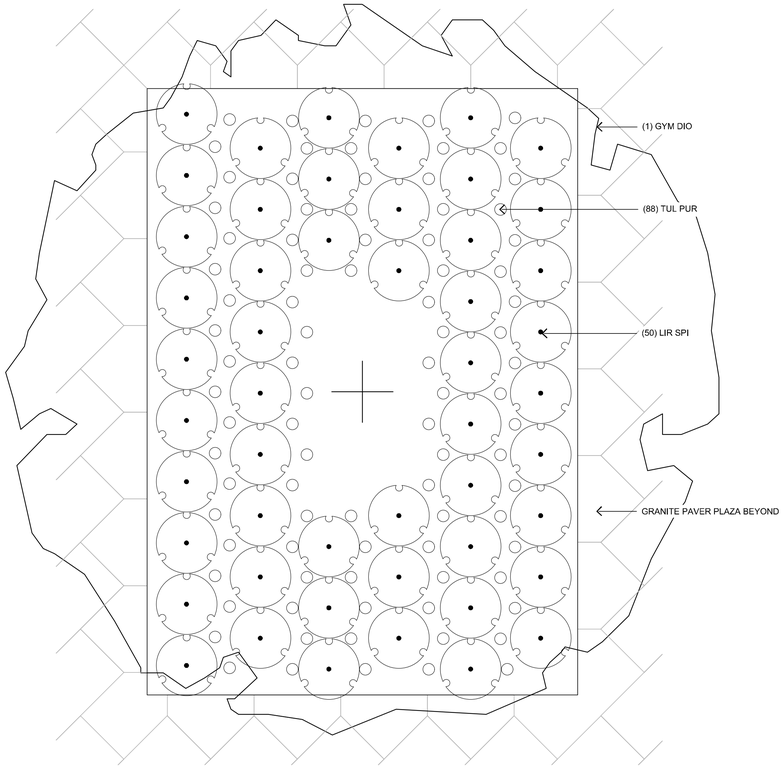
② PERENNIAL PLANTING
SCALE: N.T.S.



③ ORNAMENTAL GRASS PLANTING
SCALE: N.T.S.



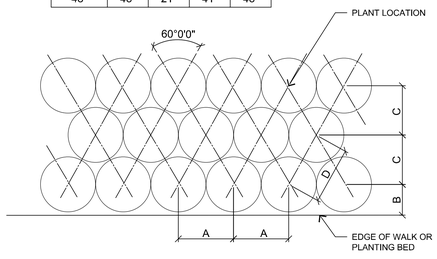
④ SHRUB PLANTING
SCALE: N.T.S.



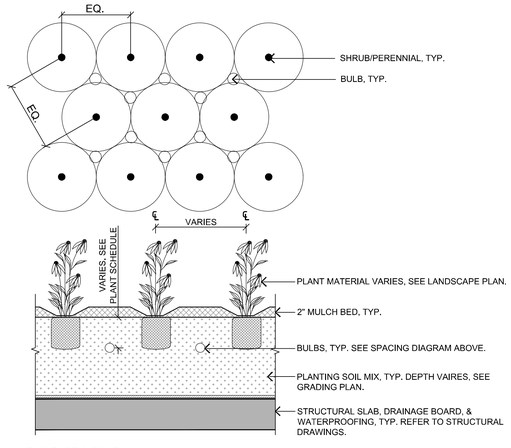
⑨ 503 PLAZA - TREE PIT TYPICAL PLANTING PLAN
SCALE: 1" = 1'-0"

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15	18"
24"	24"	10"	20"	24"
30"	30"	15"	25"	30"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

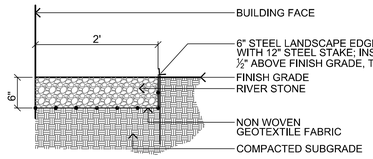
A = SPACING
B = SP/2
C = SP/1.2
D = SPACING



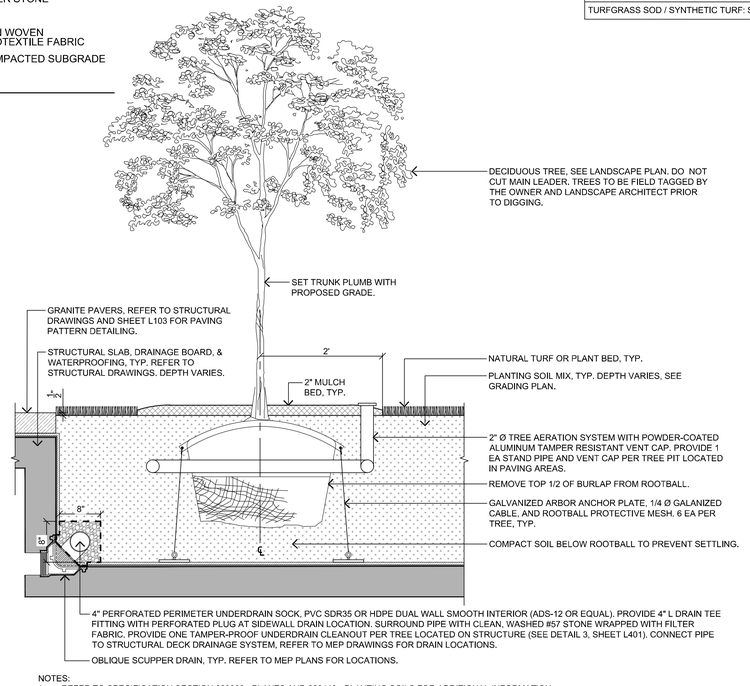
⑤ PERENNIAL SPACING
SCALE: N.T.S.



⑥ BULB SPACING
SCALE: N.T.S.



⑩ AGGREGATE MAINTENANCE STRIP
SCALE: 1" = 1'-0"



NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR GRADING PLANS AND TREE PIT DEPTHS.
4. PROVIDE A CIRCULAR TREE AERATION SYSTEM AND VENT AT EACH SINGULAR TREE PIT. FOR LINEAR TREE PLANTING AREAS PROVIDE ONE VENT CAP PER TREE AND WEAVE THE TREE AERATION SYSTEM IN A SERPENTINE FASHION BETWEEN EACH TREE.
5. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE.
6. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.
7. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.

⑦ TREE PLANTING IN LAWN ON STRUCTURE
SCALE: 1" = 1'-0"

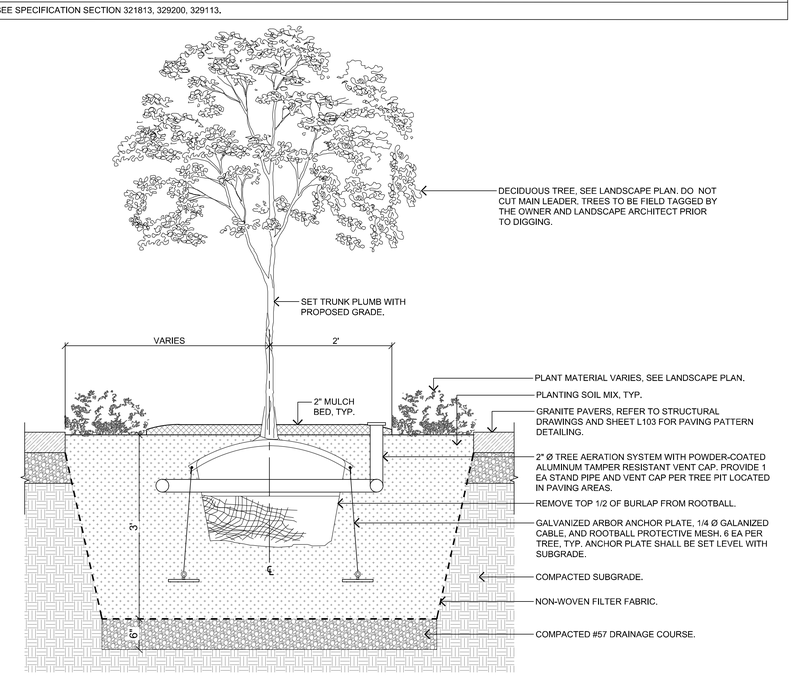
PLANT SCHEDULE :

KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
DECIDUOUS TREES:					
BET NIG	BETUAL NIGRA 'DURA-HEAT'	DURA HEAT RIVER BIRCH	3" CAL.	B&B	SINGLE STEMMED SPECIMEN TREE. MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
GLE TRI	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SHADEMASTER'	SHADEMASTER THORNLESS HONEYLOCUST	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
GYM DIO	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING. BRANCHING HEIGHT TO BEGIN AT 6'.
NYS SYL	NYSSA SYLVATICA	BLACKGUM	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
TIL COR	TILIA CORDATA 'CORINTHIAN'	CORINTHIAN LITTLELEAF LINDEN	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
ULM PAR	ULMUS PARVIFOLIA 'EMER II'	ALLEE ELM	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
ORNAMENTAL TREES:					
MAG VIR	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	10' HT. MIN.	B&B	MULTI-STEM (3 EA STEMS) SPECIMEN TREE. MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
THU OCC	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	8' HT. MIN.	B&B	MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
SHRUBS:					
CHA PIS	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP FALSE CYPRESS	#7, 18" HT. MIN.	CONT.	PLANT 4' O.C.
HYD PAN	HYDRANGEA PANICULATA JANE'	LITTLE LIMELIGHT HYDRANGEA	#7, 18" HT. MIN.	CONT.	PLANT 5' O.C.
HYD QUE	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	#7, 24" HT. MIN.	CONT.	PLANT 5' O.C.
PERENNIALS AND ORNAMENTAL GRASSES:					
ALL MED	ALLIUM 'MEDUSA'	MEDUSA ORNAMENTAL ONION	#1, 12" HT. MIN.	CONT.	PLANT 30" O.C.
ANE MAC	ANEMONE X 'MACANE001'	WILD SWAN HYBRID ANEMONE	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
ARO MEL	ARONIA MELANOCARPA 'UCONNAM165'	LOW SCAPE MOUND BLACK CHOKEBERRY	#3, 12" HT. MIN.	CONT.	PLANT 36" O.C.
BOU CUR	BOUTELOUA CURTIPENDULA	SIDEOATS GAMA GRASS	#3, 24" HT. MIN.	CONT.	PLANT 36" O.C.
CAL ACU	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	#3, 24" HT. MIN.	CONT.	PLANT 36" O.C.
EUT DUB	EUTROCHIUM DUBIUM 'BABY JOE'	DWARF JOE PYE WEED	#3, 24" HT. MIN.	CONT.	PLANT 30" O.C.
FIL RUB	FILIPENDULA RUBRA	QUEEN OF THE PRAIRIE	#3, 24" HT. MIN.	CONT.	PLANT 36" O.C.
GER MAC	GERANIUM MACRORRHIZUM 'BEVAN'S VARIETY'	BIGROOT GERANIUM	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
LEU DAI	LEUCANTHEMUM 'DAISY DUKE'	DAISY DUKE MAY DAISY	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
LIA LIG	LIATRIS LIGULISTYLIS	BLAZING STAR	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
PAN VIR	PANICUM VIRGATUM 'CHEYENNE SKY'	CHEYENNE SKY SWITCH GRASS	#3, 24" HT. MIN.	CONT.	PLANT 36" O.C.
PER ATR	PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY'	DWARF RUSSIAN SAGE	#3, 24" HT. MIN.	CONT.	PLANT 42" O.C.
RUD FUL	RUDBECKIA FULGIDA 'BLOVI'	VIETTE'S LITTLE SUZY RUDBECKIA	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
SAL NEM	SALVIA NEMOROSA 'CARADONNA'	CARADONNA SAGE	#1, 12" HT. MIN.	CONT.	PLANT 24" O.C.
SCH SCO	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM GRASS	#1, 12" HT. MIN.	CONT.	PLANT 30" O.C.
SOL SPH	SOLIDAGO SPHACELATA 'GOLDEN FLEECE'	GOLDEN FLEECE GOLDENROD	#3, 12" HT. MIN.	CONT.	PLANT18" O.C.
STA OFF	STACHYS OFFICINALIS 'HUMMELO'	HUMMELO BETONY	#1, 12" HT. MIN.	CONT.	PLANT 18" O.C.
SYM NOV	SYMPHYOTRICHUM NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	#1, 12" HT. MIN.	CONT.	PLANT 30" O.C.
VER VIR	VERONICASTRUM VIRGINICUM 'FASCINATION'	CULVER'S ROOT	#3, 24" HT. MIN.	CONT.	PLANT 36" O.C.
BULBS:					
ALL AMB	ALLIUM 'AMBASSADOR'	ORNAMENTAL ONION	6" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL
NAR TRU	NARCISSUS TRUMPET 'DUTCH MASTER'	DUTCH MASTER TRUMPET DAFFODIL	5" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL
TUL PUR	TULIPA 'PURISSIMA'	WHITE FOSTERIANA TULIP	5" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL

MOVABLE PLANTERS: PROVIDE POTTING SOIL MIX AND ANNUAL PLANT ARRANGEMENTS FOR EACH MOVABLE PLANTER.

ANNUAL PLANTING AREAS: PROVIDE ANNUAL PLANT LIST TO LANDSCAPE ARCHITECT & OWNER FOR APPROVAL PRIOR TO INSTALLATION.

TURFGRASS SOD / SYNTHETIC TURF: SEE SPECIFICATION SECTION 321813, 329200, 329113.



NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. PROVIDE A CIRCULAR TREE AERATION SYSTEM AND VENT AT EACH SINGULAR TREE PIT. FOR LINEAR TREE PLANTING AREAS PROVIDE ONE VENT CAP PER TREE AND WEAVE THE TREE AERATION SYSTEM IN A SERPENTINE FASHION BETWEEN EACH TREE.
3. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE.
4. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.
5. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.

⑧ TREE PLANTING AT GRADE
SCALE: 1" = 1'-0"

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
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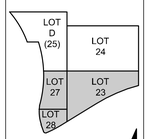
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	2/21/2020	BID PACKAGE #6



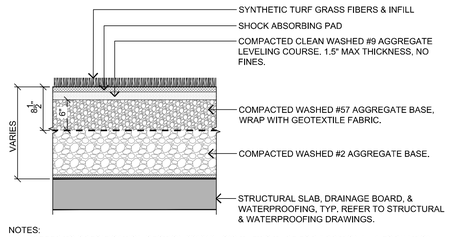
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

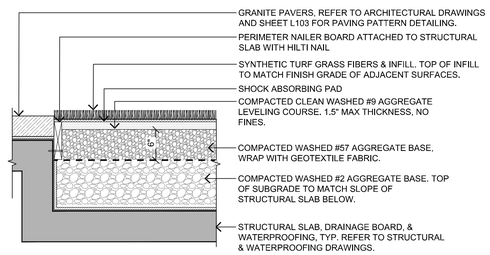
DRAWING TITLE
PLANT SCHEDULE & DETAILS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER
L301



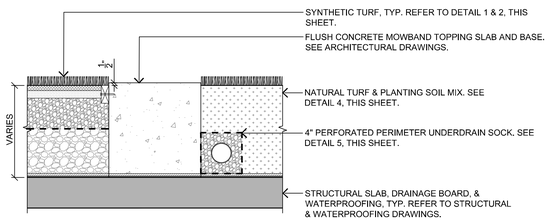
NOTES:
1. REFER TO SPECIFICATION SECTION 321813 - SYNTHETIC TURF FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

1 SYNTHETIC TURF
SCALE: 1" = 1'-0"

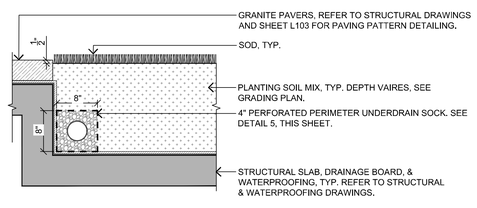


NOTES:
1. REFER TO SPECIFICATION SECTION 321813 - SYNTHETIC TURF FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

2 SYNTHETIC TURF AT GRANITE PAVING
SCALE: 1" = 1'-0"

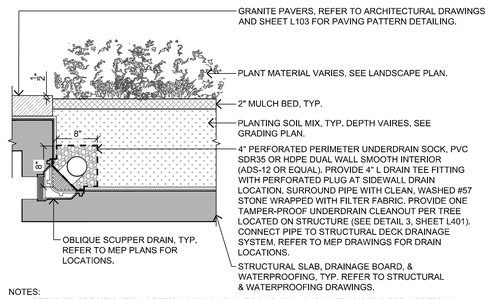


3 CONCRETE MOWBAND AT SYNTHETIC TURF
SCALE: 1" = 1'-0"



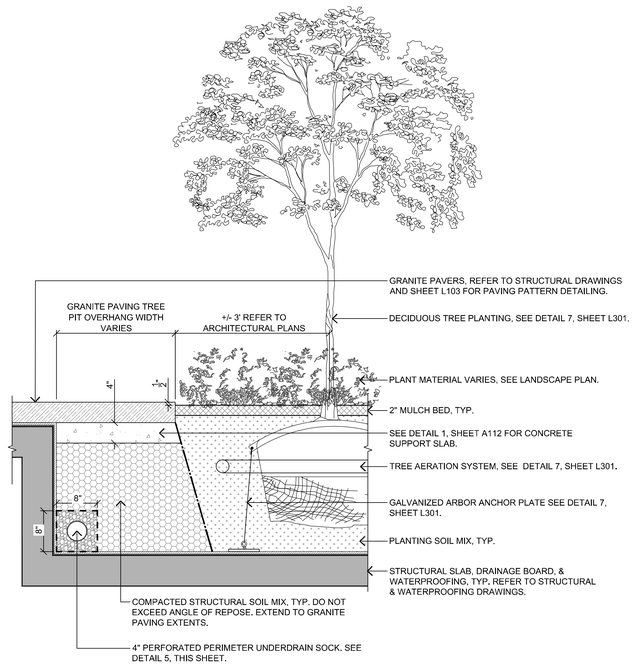
NOTES:
1. REFER TO SPECIFICATION SECTION 329200 - TURF & GRASSES AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK CATCH BASIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

4 NATURAL TURF AT GRANITE PAVING
SCALE: 1" = 1'-0"



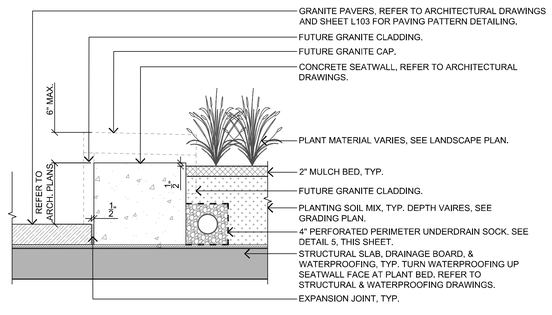
NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

5 PLANT BED AT GRANITE PAVING
SCALE: 1" = 1'-0"



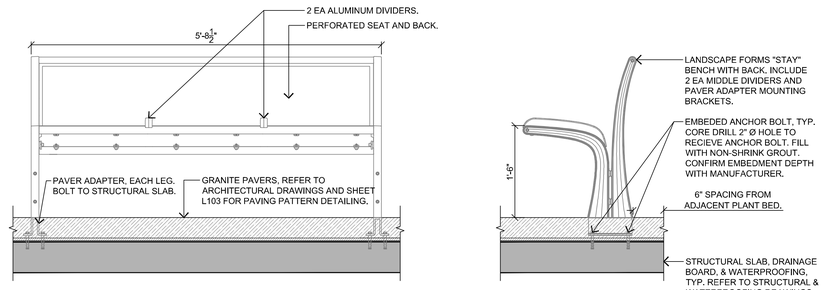
NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.

6 TREE PIT AT GRANITE PAVING
SCALE: 1" = 1'-0"



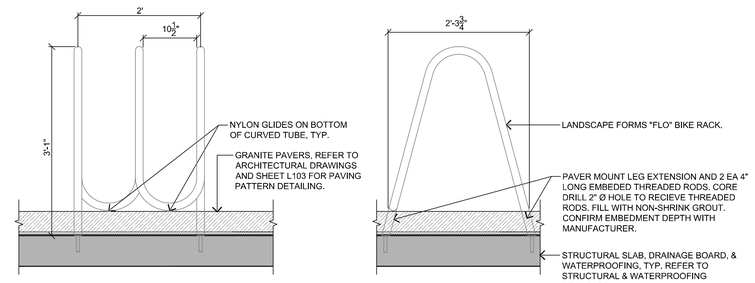
NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

7 CONCRETE PLANTER WALL AT RACE STREET
SCALE: 1" = 1'-0"



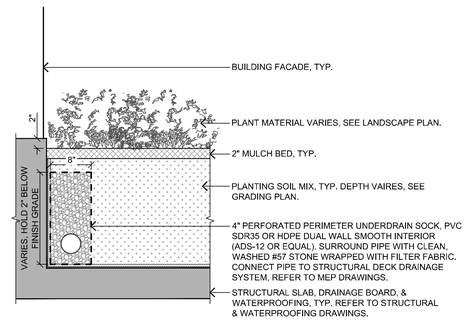
NOTES:
1. REFER TO SPECIFICATION SECTION 129300 - SITE FURNISHINGS FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR GRANITE PAVING DETAILS.
3. BENCHES SHOULD BE INSTALLED PLUMB VERTICAL. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.

8 BENCH WITH BACK
SCALE: 1" = 1'-0"



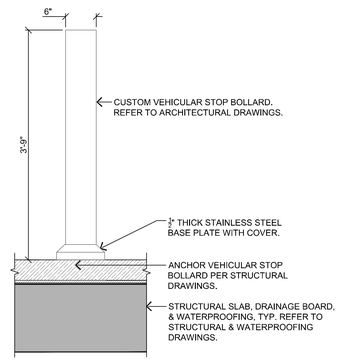
NOTES:
1. REFER TO SPECIFICATION SECTION 129300 - SITE FURNISHINGS FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR GRANITE PAVING DETAILS.
3. BIKE RACK SHOULD BE INSTALLED PLUMB VERTICAL. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.

9 BIKE RACK
SCALE: 1" = 1'-0"



NOTES:
1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.
2. REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR GRADING PLANS.

10 PLANT BED AT BUILDING FACADE
SCALE: 1" = 1'-0"



NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CUSTOM BOLLARD.
2. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL SLAB DEPTHS AND WATERPROOFING.

11 VEHICULAR STOP BOLLARD
SCALE: 1" = 1'-0"

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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100 East Eighth Street
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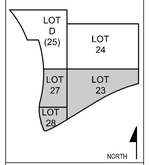
ISSUES		
1	10/12/2019	BID PACKAGE #6 - DD PRICING
2	2/27/2020	BID PACKAGE #6



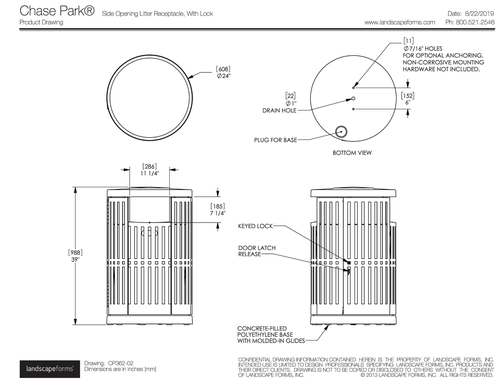
DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

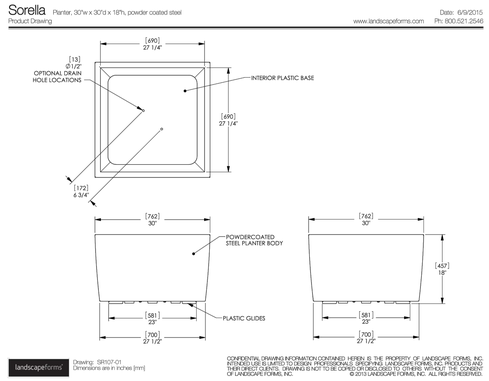
DRAWING TITLE
DETAILS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER
L400



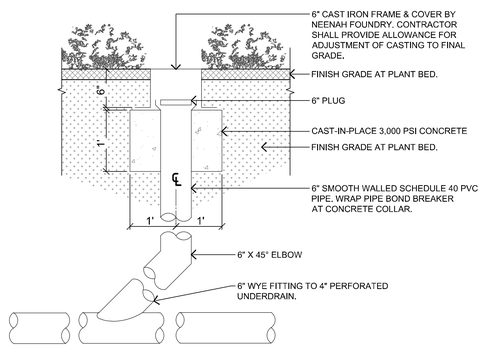
NOTES:
1. REFER TO SPECIFICATION SECTION 129300 - SITE FURNISHINGS.
2. TRASH RECEPTACLE MATERIAL / COLOR SHALL BE METALLIC SILVER. SUBMIT MATERIAL AND COLOR SAMPLES FOR APPROVAL.
3. TRASH RECEPTACLE SHALL BE SIDE OPENING AND LOCKABLE.

1 TRASH RECEPTACLES
SCALE: N.T.S.



NOTES:
1. REFER TO SPECIFICATION SECTION 129300 - SITE FURNISHINGS.
2. PLANTER MATERIAL / COLOR SHALL BE METALLIC SILVER. SUBMIT MATERIAL AND COLOR SAMPLES FOR APPROVAL.
3. ALL PLANTERS SHALL HAVE PRE-DRILLED DRAIN HOLES. CONTRACTOR TO PROVIDE AFTER-MARKET POWDERCOATED METAL DRIP PAN FOR EACH PLANTER.

2 MOVABLE PLANTERS
SCALE: N.T.S.



3 UNDERDRAIN CLEANOUT
SCALE: N.T.S.

HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS

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Consulting Engineers
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Cincinnati, Ohio 45202
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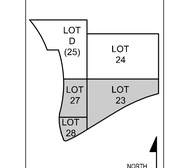
Fax: (513) 241-2981

ISSUES		
1	12/12/2019	BID PACKAGE #6 - ECO PARKING
2	2/21/2020	BID PACKAGE #8



DRAWN BY: M.S.
ENGINEER:
CHECKED BY: M.P.

THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE
DETAILS

JOB NUMBER 98090.38
DATE
DRAWING NUMBER
L401

Wednesday, Jan 13, 2021 3:30:06 PM, 2020-0001-LDT-PZ-LAN-Plans-Drawings_Group_Plans_2020-0001-LDT-PZ-LAN-L401.dwg

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
08HE-VAN, 10HE-VAN, 12HE-VAN, 15HE-VAN	Rain Bird 1806-SAM-PRS HE-VAN Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
2Q 2H 2F 4Q 4H 4F	Rain Bird 1812-SAM-PRS SQ Series Shrub Spray 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve, and Pressure Regulating Device. Install on riser as-needed
Q T H TQ F	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve, and Pressure Regulating Device. Install on riser as-needed
4V 6V 18V	Rain Bird 1812-SAM-PRS ADJ Shrub Spray 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve, and Pressure Regulating Device. Install on riser as-needed
08HE-VAN, 10HE-VAN, 12HE-VAN, 15HE-VAN	Rain Bird 1812-SAM-PRS HE-VAN Series Shrub Spray 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve, and Pressure Regulating Device. Install on riser as-needed
R-VAN18, R-VAN18-360	Rain Bird R-VAN18 1806-SAM-P45 Turf Rotary, 13´-18´ 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1806 spray body with check valve and 45 psi in-stem pressure regulator
R-VAN24, R-VAN24-360	Rain Bird R-VAN24 1806-SAM-P45 Turf Rotary, 17´-24´ 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1806 spray body with check valve and 45 psi in-stem pressure regulator

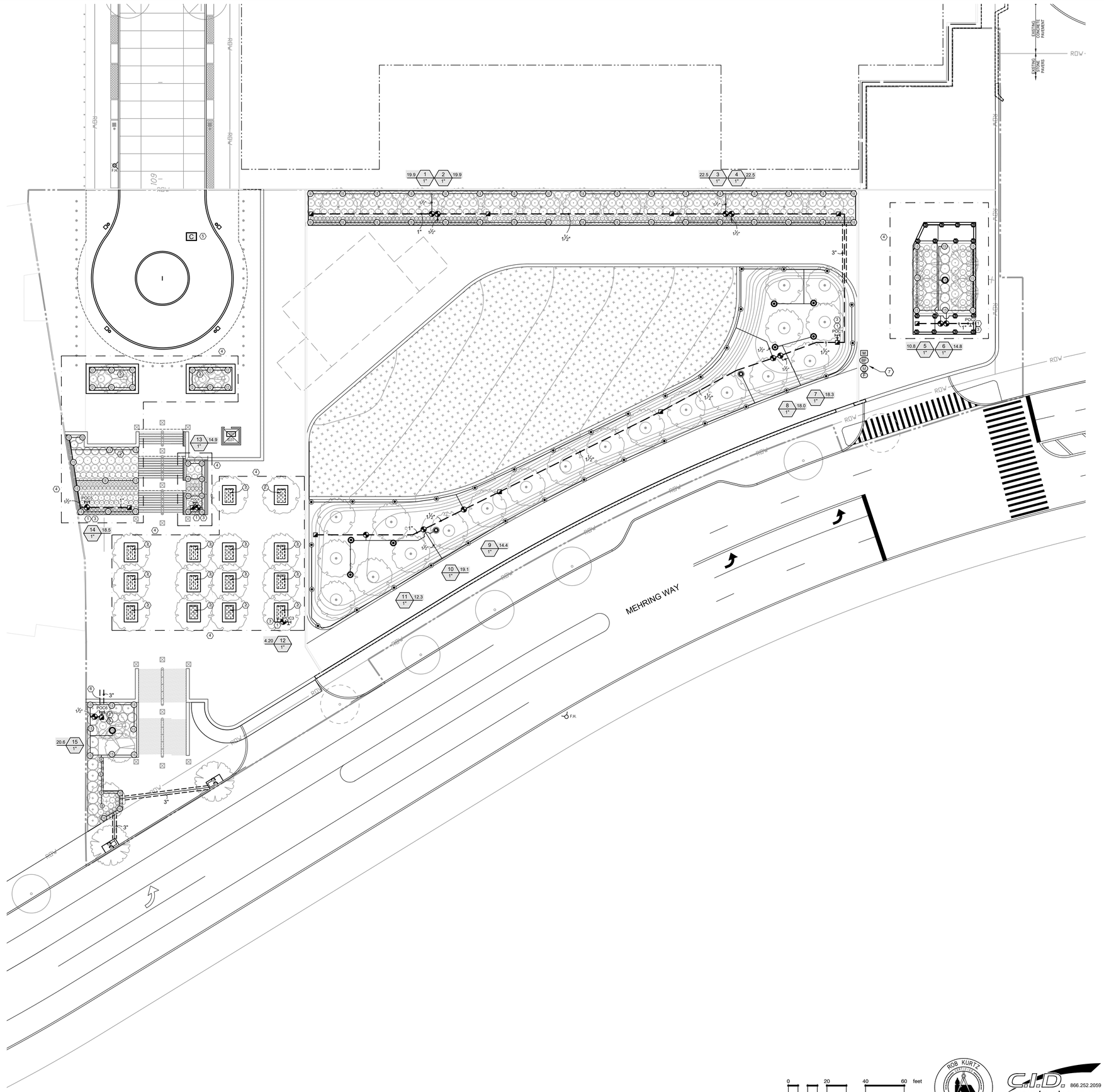
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Area to Receive Dripline Rain Bird XFS-06-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology. 0.6 GPH emitters at 12" O.C. Laterals spaced at 12" apart

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PGA Series Valve 1" & 1-1/2" Remote Control Valve
	Rain Bird 5-RC 1" Brass Quick-Coupling Valve. Install in Locking 10" Valve Box
M	Rain Bird PGA Master Valve 1-1/2" 1-1/2" Master Valve. To be installed below decking after Backflow Device. Install per Manufacturer´s instructions. Wire back to Irrigation Controller
BF	Backflow Device (Below) - See Plumbing Drawings 2" Assumed Location - Shown below Deck.Final Location to be determined. See Plumbing Drawings
C	Rain Bird ESP8LXMEF w/ Expansion Modules 16 Station Capable Commercial Controller. Provide PE39 Shielded Cable to flow sensor, located @ Irrigation Water source
F	Rain Bird FS-150-P 1-1/2" Flow Sensor. To be installed below decking after Backflow Device. Install per Manufacturer´s instructions. Wire back to Irrigation Controller
M	2" Water Meter (Below) - See Plumbing Drawings Assumed Location, Shown below Deck.Final Location to be determined. See Plumbing Drawings
POC1	Point of Connection 1-1/2" 1-1/2" Type L Copper Stub - See MEP Plans
POC5	Point of Connection 1-1/2" 1-1/2" Type L Copper Stub - See MEP Plans
POC6	Point of Connection 1-1/2" 1-1/2" Type L Copper Stub - See MEP Plans
POC2	Point of Connection 1-1/4" 1-1/4" Type L Copper Stub - See MEP Plans
POC3	Point of Connection 3/4" 3/4" Type L Copper Stub - See MEP Plans
POC4	Point of Connection 3/4" 3/4" Type L Copper Stub - See MEP Plans
	Irrigation Lateral Line: PVC Class 200 SDR 21 All laterals 1" in size unless noted otherwise
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Mainline stub from MEP Contractor - seal penetrations
2	Irrigation lateral stub by MEP Contractor - Seal penetrations. Connect 1" Class 200 PVC & continue to sprinklers / drip irrigation
3	1-1/4" Irrigation Wire conduit for Valve connection. Conduit type to be determined by Electrical Contractor - Seal penetrations
4	Areas within this Area to be connected as a Single Irrigation Zone, via Type L Copper Laterals, by MEP Contractor. See Plumbing Plans
5	Irrigation Controller to be located below, in Park Board Electrical Room (Room 206). See Electrical Plans. Electrical Contractor to provide 1-1/4" conduit for Irrigation Wire to locations (Reference Note #3) & Flow Sensor Wire, near backflow. See Plumbing Plans. Seal all penetrations
6	MEP Contractor to stub 3/4" Type L Copper Mainline & Wire Conduit into landscape area, for continuation by Irrigation Contractor. See Plumbing Plans
7	Copper piping to continue from Water Meter thru Flow Sensor & continue to Irrigation Connections. See below deck Plumbing Plans.



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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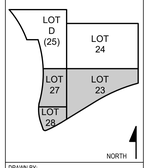
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

PRELIMINARY NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
1	07/12/2019	BID PACKAGE #6 - CO PROVIDING
2	2/21/2020	BID PACKAGE #8



DRAWN BY: R.K.
ENGINEER:
CHECKED BY: M.S.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
IRRIGATION PLAN

JOB NUMBER 98090.38
DATE

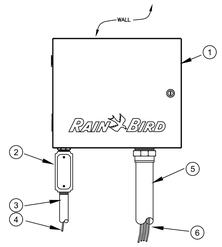
DRAWING NUMBER
IR100

BOB KURTZ COMMERCIAL

C.I.D. IRRIGATION CONSULTANTS 866.252.2059

IRRIGATION NOTES

1. 70 PSI @ a rate of 23 GPM required immediately "after" the Meter/Backflow. Irrigation contractor is responsible to verify actual conditions before starting installation. If pressure conditions cannot be met, field adjustment may be necessary, such as addition of a Booster Pump.
2. All on grade irrigation pipe shall be Class 200 PVC pipe, unless noted otherwise. All piping by Plumbing Contractor below landscaped areas shall per Type L Copper. See Plumbing Plans.
3. All wiring as per local code.
4. Backflow prevention as per local code. See Plumbing Plans, if available.
5. The irrigation system is diagrammatic; adjustments necessary in the field shall be made by the Contractor.
6. All valves shall be located in locking valve boxes flush with grade.
7. The irrigation system shall be installed as per Manufacturer's Specifications.
8. Winterization of system shall be as per Manufacturer's Specifications.
9. Sleeving shall be required under all walks, tree pits & roadways. Sleeve size shall be twice (2x) the size of pipe being sleeved. (minimum 3" unless noted).
10. Drawings and details supplied show necessary materials, but certain other materials may have to be supplied and installed by the Irrigation Contractor in order to have upon completion a fully operational irrigation system.
11. Bidding Contractors should become thoroughly familiar with all facets of the proposed irrigation system. Failure to clarify misunderstandings, or intent of these drawings and specifications before submittal of bid shall be the responsibility of the Contractor.
12. The Irrigation Contractor shall locate all utilities as are commonly encountered underground and shall take proper precautions not to damage or disturb such improvements. Coordinate with the General Contractor.
13. Irrigation Contractor will arrange inspections required by local agencies and ordinances during the course of construction as required.
14. Full and complete coverage is required. Irrigation contractor shall make any necessary minor adjustments to layout required to achieve full coverage of irrigation areas, at no additional cost to the owner.
15. Electrical power will be provided to controller location(s). Coordinate with owner's authorized representative as to final location of controller. Coordinate electrical connection with Electrical Contractor.
16. Install rain sensor per Manufacturer's recommendations. Coordinate all sensor locations with Owner's Authorized Representative.
17. Irrigation control wire shall be solid copper wire u.l. approved for direct burial in ground. Minimum gauge: #14 u.f. Common ground wire shall be white.
18. 24 vac wire splicing material will be direct burial splice kit as manufactured by 3M, or equivalent.
19. Riser extensions for sprinklers or a fixed riser with a shrub head/ adapter, may be required, to get proper coverage, in some areas. Contractor to install as needed.
20. Irrigation piping should be installed so that there is no disturbance to the critical root zones of existing trees.
21. Irrigation laterals & mainline shown as-is for clarity. Install in turf or landscape areas.
22. Mainline depth to be 18" minimum. Lateral line depth to be minimum 12" (see Trench Detail)
23. Irrigation Contractor responsible for the installation of flush valves & air relief valves where needed. Do not exceed maximum lateral drip line runs. See Manufacturer's data for additional information.
24. Irrigation Controller to be grounded per Manufacturer's recommendations.

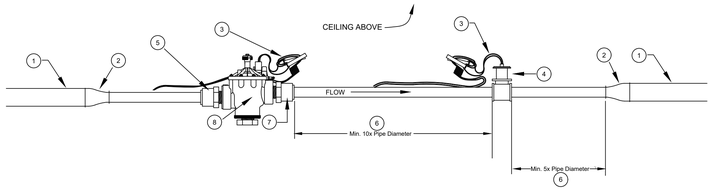


1. IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER IN LXMM METAL CABINET
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO REMOTE CONTROL VALVES

NOTES:
1. ESP-LXME CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

RAIN BIRD ESP-LXMEF / METAL CABINET

SCALE: NOT TO SCALE



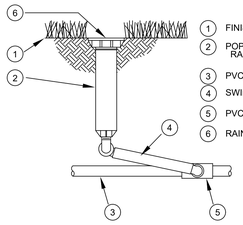
1. TYPE L Copper MAINLINE
2. CONCENTRIC REDUCER
3. CONTROL WIRES WITH 12" MIN. SERVICE COIL AND WATERPROOF WIRE SPLICE CONNECTORS - WIRE COLORS PER SPECIFICATIONS
4. FLOW SENSOR PER SPECIFICATIONS
5. COPPER MALE ADAPTER
6. MINIMUM 10x PIPE DIAMETER UPSTREAM & MINIMUM 5x PIPE DIAMETER DOWNSTREAM OF STRAIGHT PIPE (check Flow Sensor spec)
7. COPPER MALE ADAPTER - BUSH DOWN TO FLOW METER SIZE IF NECESSARY
8. MASTER VALVE PER PLAN

INSTALLATION NOTE: PLUMBING CONTRACTOR TO INSTALL STANDOFFS / SUPPORTS AS NECESSARY TO ENSURE STABLE INSTALLATION.

(SEE PLUMBING PLANS)

MASTER VALVE / FLOW SENSOR TYPICAL INSTALLATION

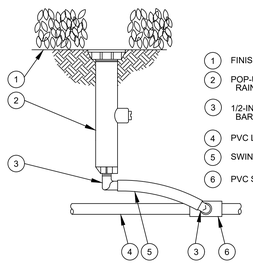
SCALE: NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SAM-P45
3. PVC LATERAL PIPE
4. SWING ASSEMBLY
5. PVC SCH 40 TEE OR ELL
6. RAIN BIRD ROTARY NOZZLE

RAIN BIRD 6" FIXED SPRAY 1806-SAM-P45 & ROTARY NOZZLE

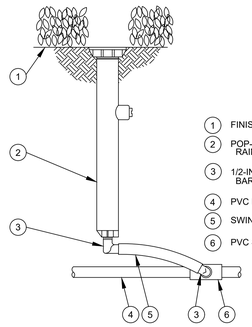
SCALE: NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SAM-PRS
3. 1/2-INCH MALE NPT BARB ELBOW
4. PVC LATERAL PIPE
5. SWING PIPE
6. PVC SCH 40 TEE OR ELL

RAIN BIRD 6" FIXED SPRAY 1806-SAM-PRS SERIES

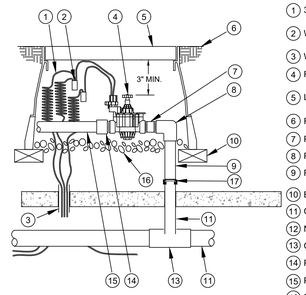
SCALE: NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS
3. 1/2-INCH MALE NPT BARB ELBOW
4. PVC LATERAL PIPE
5. SWING PIPE
6. PVC SCH 40 TEE OR ELL

RAIN BIRD 12" FIXED SPRAY 1812-SAM-PRS

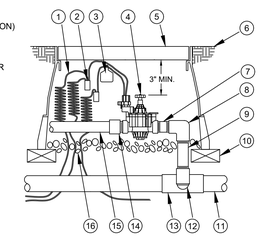
SCALE: NOT TO SCALE



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTIONS
3. WIRE CONDUIT (SEAL PENETRATION)
4. REMOTE CONTROL VALVE: RAIN BIRD PGA SERIES
5. LOCKING VALVE BOX WITH COVER
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. COPPER MAINLINE
12. N/A
13. COPPER TEE OR ELL (as needed)
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3" MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. COPPER FEMALE ADAPTER

RAIN BIRD PGA SERIES CONNECTION FROM BELOW DECK

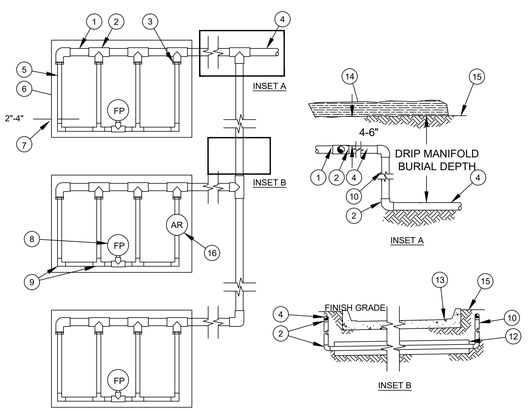
SCALE: NOT TO SCALE



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTIONS
3. ID TAG: N/A
4. REMOTE CONTROL VALVE: RAIN BIRD PGA SERIES
5. LOCKING VALVE BOX WITH COVER
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

RAIN BIRD PGA SERIES ELECTRIC REMOTE CONTROL VALVE

SCALE: NOT TO SCALE



1. PVC SUPPLY HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFD-MA FITTING (TYPICAL)
4. PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
5. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
6. PERIMETER OF AREA
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
8. FLUSH POINT (TYPICAL) - SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
9. BARB X BARB INSERT TEE OR EL: RAIN BIRD XFD-TEE OR RAIN BIRD XFD-EL (TYPICAL)
10. PVC RISER PIPE
11. PVC SUPPLY MANIFOLD
12. PVC SCH 40 SLEEVE PIPE SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
13. PAVEMENT AND CURB
14. TURF OR MULCH
15. FINISH GRADE
16. ½" AIR RELIEF VALVE: RAIN BIRD ARV-12 SEE RAIN BIRD XFS DETAILS FOR ARV-12 INSTALLATION

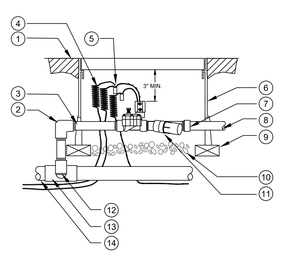
DETAIL AS SHOWN IS TYPICAL & NOT A PROJECT SPECIFIC DETAIL. ADJUST SYSTEM LAYOUT ACCORDINGLY. DETAIL IS DIAGRAMMATIC & IS TO BE USED AS REFERENCE ONLY

XFS Dripline Maximum Lateral Lengths (Feet)						
	12" Spacing		18" Spacing		24" Spacing	
Inlet Pressure	Nominal Flow (GPH)		Nominal Flow (GPH)		Nominal Flow (GPH)	
psi	0.6	0.9	0.6	0.9	0.6	0.9
15	255	194	357	273	448	343
20	291	220	408	313	514	394
30	350	266	494	378	622	478
40	396	302	560	428	705	541
50	434	333	614	470	775	594

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XF-SDI DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.

RAIN BIRD XFS SUB-SURFACE DRIPLINE TYPICAL ISLAND LAYOUT

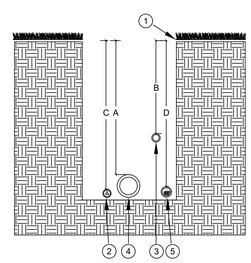
SCALE: NOT TO SCALE



1.
2. PVC SCH 40 ELL
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2)
4. 30-INCH LINEAR LENGTH OF WIRE, COILED
5. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
6. LOCKING VALVE BOX WITH COVER:
7. PVC SCH 40 FEMALE ADAPTER
8. LATERAL PIPE
9. BRICK (1 OF 4)
10. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
11. CONTROL ZONE KIT: RAIN BIRD XCZ-075-PRF
12. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC MAINLINE

RAIN BIRD DRIP ZONE KIT XCZ-075-PRF

SCALE: NOT TO SCALE



1. FINISHED GRADE
2. 120 VOLT ELECTRICAL - INSTALL PER LOCAL CODES - IF REQUIRED
3. LATERAL PIPING
4. MAINLINE PIPING
5. IRRIGATION CONTROL WIRES

TRENCH DEPTHS	A	B	C	D
PIPE SIZES 1" TO 2-1/2"	18"	12"	Per Code	18"
PIPE SIZES 3" TO 4"	24"	18"	Per Code	24"

TIE A LOOSE 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER THAN 30 DEGREES. UNTIE LOOPS AFTER CONNECTIONS HAVE BEEN MADE.

TRENCH DETAIL

SCALE: NOT TO SCALE

ROB KURTZ — REGISTERED PROFESSIONAL ENGINEER — 100334 — STATE OF OHIO — COMMERCIAL

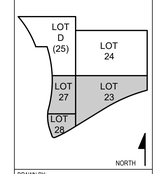
C.I.D. 866.252.2059 IRRIGATION CONSULTANTS

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES		
1	12/17/2018	BID PACKAGE #6 - DD PRICING
2	2/21/2020	BID PACKAGE #8



DRAWN BY: R.K.
ENGINEER:
CHECKED BY: M.S.

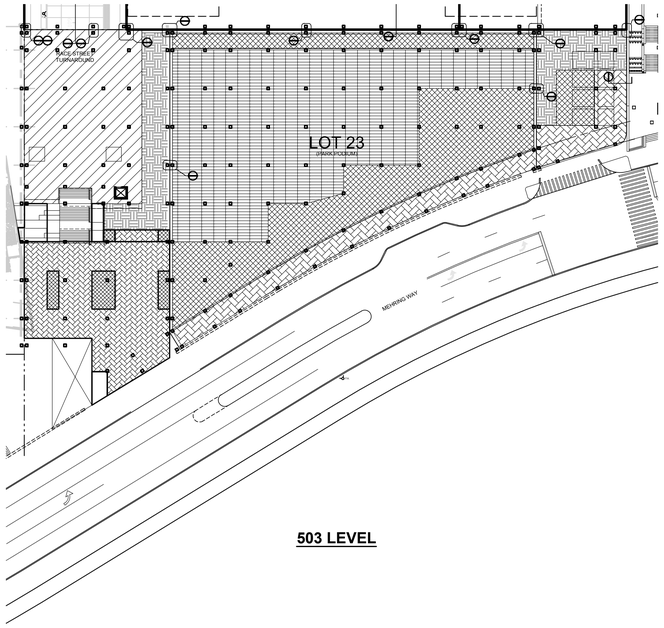
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

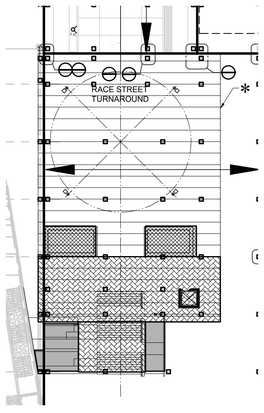
DRAWING TITLE: **IRRIGATION NOTES & DETAILS**

JOB NUMBER: 98090.38
DATE:

DRAWING NUMBER: **IR101**



503 LEVEL



SIP DL 480 PSF (MAX 4 FT SOIL), LL 100PSF

SIP DL 85 PSF (MAX 6" TOPPING), LL 250 PSF CHECK FOR FIRE TRUCK

SIP DL 200 PSF (MAX 18" SOIL), LL 250 PSF CHECK FOR FIRE TRUCK

SIP DL 85 PSF (MAX 6" TOPPING), LL 100 PSF

SIP DL 10 PSF, LL 125 PSF

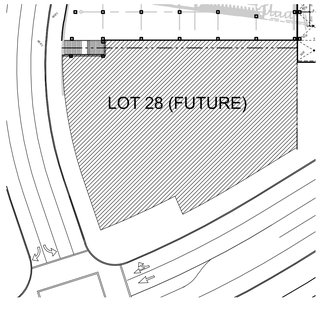
SIP DL 150 PSF (MAX 11" TOPPING), LL 250 PSF CHECK FOR FIRE TRUCK AND HS20 TRUCK

SIP DL 180 PSF (MAX 18" SOIL), LL 100 PSF

* EDGE STRUCTURAL LOADING TBD.

515 LEVEL

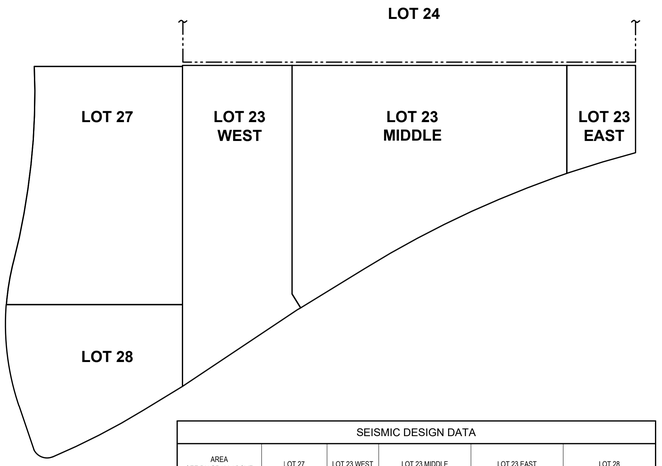
LOT 23 LOADING DIAGRAM



503 LEVEL

SIP DL 480 PSF, LL 250PSF

LOT 28 LOADING DIAGRAM



SEISMIC DESIGN DATA					
AREA SEE DIAGRAM ABOVE	LOT 27	LOT 23 WEST	LOT 23 MIDDLE	LOT 23 EAST	LOT 28
LATERAL SYSTEM RESISTANCE (R)	3	3	3	3	3
SEISMIC RESPONSE COEFFICIENT (Cs)		0.0516	0.0516	0.0516	0.0516
BASE SHEAR (KIPS)	559	794	1313	142	780

GENERAL STRUCTURAL NOTES:

A. CODES AND SPECIFICATIONS

1. CINCINNATI, OHIO BUILDING CODE, 2017.
2. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. ACI 301-16 STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE.
4. ANSI/AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
5. ANSI/AWS - STRUCTURAL WELDING CODE - STEEL D1.1.

B. FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED UPON THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED MARCH 10, 2015.
2. FOUNDATION ELEVATIONS SHOWN ARE ESTIMATED AND ARE FOR BIDDING PURPOSES ONLY, AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS.
3. FOUNDATIONS DESIGNED FOR 16" DIAMETER, AUGERED, CAST-IN-PLACE CONCRETE PILES WITH MINIMUM 125 TON CAPACITY.
4. REINFORCE ALL PILES PER SECTION A ON DRAWING S301.
5. ESTIMATED DESIGN PILE TIP ELEVATION AS SHOWN ON PLAN. FINAL TIP ELEVATION TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER.
6. PILE LOAD TESTS ARE REQUIRED TO VERIFY PILE CAPACITY AND TIP ELEVATIONS. REFER TO PROJECT SPECIFICATIONS.
7. SET COLUMN DOWELS WITH TEMPLATE PRIOR TO CONCRETING.

C. CONCRETE

1. CONCRETE STRENGTHS:
   a. 4500 PSI: FOOTINGS, PILE CAPS, AND GRADE BEAMS.
   b. 5000 PSI (AE): LOT 23 PODIUM ELEVATED SLAB WITH MEMBRANE PROTECTION, SLABS ON GRADE, WALLS, RAILS, EXTERIOR TOPPING SLABS, AND OTHER CONCRETE WITH EXTERIOR EXPOSURE.
   c. 5000 PSI (AE) COLUMNS AND SHEAR WALLS.
   d. 1500 PSI: BACKFILL CONCRETE.
2. PROVIDE 3/4" BEVELS AT CORNERS OF ALL COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
3. LENGTH OF SLAB POUR BETWEEN CONSTRUCTION JOINTS SHALL NOT EXCEED 120 FEET. MAXIMUM AREA OF SLAB POURS NOT TO EXCEED 14,000 SF.
4. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY STRUCTURAL ENGINEER. LOCATIONS OF ALL CONSTRUCTION JOINTS TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL.
5. PERMANENT LOADS, SUCH AS MASONRY WALLS, SHALL NOT BE PLACED ON SUPPORTED SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN REMOVED.
6. PLACE NO OPENINGS, SLEEVES, INSERTS, ETC. IN CONCRETE WORK UNLESS CRITERIA INDICATED ON STRUCTURAL DRAWINGS IS MET, OR IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. METAL SLEEVES OR CONDUIT ARE NOT PERMITTED IN PARKING DECKS AND PODIUM LEVEL EXTERIOR AND SERVICE DRIVE SLABS.

D. REINFORCING STEEL

1. ALL REINFORCING: 60 KSI YIELD.
2. PROVIDE CLASS 'B' TENSION SPLICES UNLESS OTHERWISE NOTED.
3. CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE ACI MINIMUM UNLESS OTHERWISE NOTED. PROVIDE SPACERS ON OUTER LAYERS OF WALL REINFORCING TO MAINTAIN SPECIFIED COVER.
4. PROVIDE EPOXY COATED REINFORCING FOR ALL BARS FULLY OR PARTIALLY EMBEDDED IN SLABS AND BEAMS OF EXTERIOR SLAB WITHOUT MEMBRANE PROTECTION, ALL COLUMNS, AND OTHER BARS AS NOTED.
5. PROVIDE MATERIAL AND PLACEMENT OF ONE AND ONE HALF (1.5) TONS CONTINGENCY STEEL. SIZE OF BARS TO BE MIXED. BARS ARE TO BE CUT, BENT AND PLACED AS DIRECTED BY THE ENGINEER. BARS ARE TO BE EPOXY COATED.

E. MASONRY WALLS (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES.
2. MATERIAL:
   a. 1900 PSI (NET AREA), F'm = 1900 PSI, 2 CELL HOLLOW UNITS, NORMAL WEIGHT.
   a. 2 HOUR FIRE RATING REQUIRED.
   b. GROUT: COMPLY WITH ASTM C476, 3000 PSI, 8" TO 11" SLUMP.
   c. MORTAR: TYPE S.
   d. WALL REINFORCING: Fy = 60 KSI.
1. CONCRETE BLOCK WALLS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS BUT NOT LESS THAN THE FOLLOWING MINIMUM REINFORCING:
   a. VERTICAL, 1#4 VERTICAL BAR AT ALL CORNERS, ENDS, BOTH SIDES OF ALL OPENINGS AND CONTROL JOINTS, AND AT A MAXIMUM SPACING OF 10'-0" O.C.
   b. HORIZONTAL, 9 GAGE, GALVANIZED LADDER TYPE JOINT REINFORCEMENT AT 16" O.C. MAXIMUM AND 2#4 BARS IN BOND BEAMS.
2. VERTICAL BARS TO BE CONTINUOUS THROUGH BOND BEAMS.
3. MINIMUM LAP SPLICES FOR ALL VERTICAL AND HORIZONTAL BARS ARE NOTED IN THE FOLLOWING TABLE. PROVIDE LONGER LAP SPLICES WHERE DETAILED ON THE DRAWINGS.

BAR	LAP	BAR	LAP
#3	27"	#6	54"
#4	36"	#7	63"
#5	45"	#8	72"

4. DOWELS INTO MASONRY WALLS FROM FOUNDATION TO BE PROVIDED AND INSTALLED BY THE FOUNDATION CONTRACTOR. MASONRY CONTRACTOR SHALL REVIEW DOWEL LAYOUT AND PLACEMENT PRIOR TO CASTING OF FOUNDATIONS. SEE DRAWINGS AND DETAILS FOR DOWEL REQUIREMENTS.

F. MECHANICAL LOADS SUPPORTED FROM STRUCTURE

5. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.

G. COORDINATION

1. FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT FABRICATION PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES, FILLS AND DEPRESSIONS.
3. STRUCTURAL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE SLAB SHOWN.
4. ALL FRAMING MEMBERS PROVIDED FOR MECHANICAL TRADES, ELEVATOR SUPPORT BEAMS, LINTELS, MECHANICAL OPENINGS, ETC., ARE FOR BIDDING PURPOSES ONLY. SUBMIT MANUFACTURER'S DATA FOR THE PROPOSED EQUIPMENT TO STRUCTURAL ENGINEER PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR VERIFICATION OR REDESIGN OF SUPPORTS.
5. PIPE AND CONDUIT PENETRATIONS ARE TO BE SLEEVED WHEREVER POSSIBLE. CORE DRILLING OF BEAMS AND COLUMNS IS NOT PERMITTED. CORE DRILLING OF SLABS AND WALLS IS NOT PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

H. CONSTRUCTION

1. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWEEN BASEMENT SLABS AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE IN PLACE.
3. BRACE WALLS WHICH ARE TIED TO SLAB ON GRADE FOR TOP LATERAL SUPPORT BEFORE BACKFILLING AND UNTIL SLAB ON GRADE HAS ATTAINED SPECIFIED STRENGTH.
4. WHERE BEAMS OF VARIOUS DEPTHS FRAME INTO A COLUMN, PROVIDE A CONSTRUCTION JOINT AT THE BOTTOM OF THE LOWEST BEAM.
5. VERIFY EXACT SIZE AND LOCATION OF ALL WALL, FLOOR, AND ROOF OPENINGS PRIOR TO SUBMISSION OF SHOP DRAWINGS. SHOW ALL OPENINGS ON SHOP DRAWINGS.
6. ALL CONDUITS IN GARAGE ARE TO BE SURFACE MOUNTED.

I. SAFETY

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

J. DESIGN LOADS

1. LIVE LOAD
   SEE LOT 23 LOADING DIAGRAM.
2. SUPERIMPOSED DEAD LOADS
   CEILING AND MECHANICAL ALLOWANCE: 5 PSF
   SEE LOT 23 LOADING DIAGRAM.
3. SNOW LOAD
   GROUND SNOW LOAD: P_g = 20 PSF
   FLAT ROOF SNOW LOAD: P_f = 20 PSF
   SNOW EXPOSURE FACTOR: C_e = 1.0
   SNOW LOAD IMPORTANCE FACTOR: I_s = 1.10
   THERMAL FACTOR: C_t = 1.2
4. WIND LOAD
   BASIC WIND SPEED (3-SECOND GUST): Vult = 120 MPH; Vasd = 93 MPH
   RISK CATEGORY: III AT LOT 27, II AT LOT 23
   WIND EXPOSURE: C
   INTERNAL PRESSURE COEFFICIENT: ENCLOSED BUILDING, GCpi = ±.18
5. EARTHQUAKE DESIGN DATA
   RISK CATEGORY: III AT LOT 27, II AT LOT 23
   SEISMIC IMPORTANCE FACTOR: I_E = 1.25 AT LOT 27, I_E = 1.0 AT LOT 23
   MAPPED SPECTRAL RESPONSE ACCELERATION: S_S = 0.145
   MAPPED SPECTRAL RESPONSE ACCELERATION: S_1 = 0.078
   SPECTRAL RESPONSE COEFFICIENT: S_{DS} = 0.154
   SPECTRAL RESPONSE COEFFICIENT: S_{D1} = 0.125
   SITE CLASS: D
   SEISMIC DESIGN CATEGORY: B
   BASIC SEISMIC FORCE RESISTING SYSTEM: SEE SEISMIC DESIGN DATA ON THIS SHEET
   SEISMIC RESPONSE COEFFICIENT: SEE SEISMIC DESIGN DATA ON THIS SHEET
   DESIGN BASE SHEAR: SEE SEISMIC DESIGN DATA ON THIS SHEET
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PER ASCE 7.
6. FLOOD DESIGN DATA
   ZONE AE PER FLOOD INSURANCE RATE MAP (FIRM) NUMBER 39061C0307D
   DESIGN FLOOD ELEVATION: 499.2' (DFE)
   ELEVATION OF LOWEST FLOOR: 500'
   FOR FULLY ENCLOSED AREA BELOW DFE, ENGINEERED OPENING IS DESIGNED TO PROVIDE EQUALIZATION OF HYDROSTATIC FLOOD FORCES PER ASCE 24, SECTION 2.6.2.2.

K. QUALITY ASSURANCE

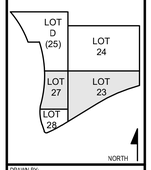
1. THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH OBC CHAPTER 17 AS A MINIMUM. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:
   a. AUGER CAST PILING: ALL PILING WORK. SEE SPEC SECTION 316310.
   b. CONCRETE: ALL CONCRETE WORK. SEE SPEC SECTION 033000.
   c. REINFORCING: ALL REINFORCING WORK. SEE SPEC SECTION 033000.
2. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND MUST BE ACCEPTABLE TO THE BUILDING OFFICIAL. INSPECTORS SHALL THOROUGHLY REVIEW THE APPLICABLE PORTIONS OF THE DOCUMENTS.
3. THE STRUCTURAL ENGINEER WILL GENERALLY REVIEW THE PROGRESS OF THE WORK, BUT HIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION.

FOR REFERENCE ONLY

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	3/4/2019	BID PACKAGE #1
2	3/25/2019	REVISE SET
3	4/2/2019	BID PACKAGE #2
4	4/26/2019	BP#2 PERMIT SET
5	5/16/2019	DESIGN DEVELOPMENT
6	8/9/2019	SCOPING SET
7	8/22/2019	BID PACKAGE #3
8	9/6/2019	BP#3 PERMIT SET
9	11/4/2019	LOT 28 PILE PERMIT SET
10	12/12/2019	BID PACKAGE #4 - DD PRICING
11	1/31/2020	BID PACKAGE #5 - SCOPING SET



DRAWN BY: P.A.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

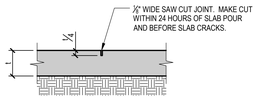
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

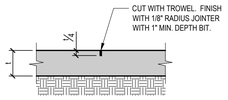
DRAWING TITLE: GENERAL NOTES

JOB NUMBER: 98090.38
DATE: 3/4/2019

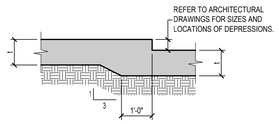
S001



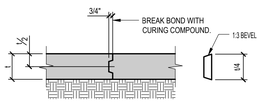
SAWED CONTROL JOINT



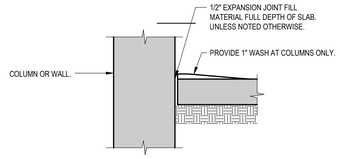
TOOLED CONTROL JOINT



S.O.G. DEPRESSION



KEYED CONSTRUCTION JOINT

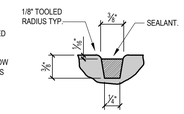


WALL/COLUMN AND FLOOR ISOLATION JOINT

NOTES:
1. MAXIMUM SPACING OF SLAB CONTROL JOINTS SHALL BE 16'-0" EACH WAY UNLESS OTHERWISE NOTED.
2. GARAGE SLABS ON GRADE ARE UNREINFORCED UNLESS NOTED ON PLANS.

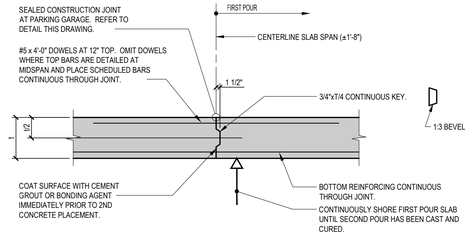
SLAB ON GRADE DETAILS

PROCEDURE:
1. DRY SANDBLAST CONCRETE SURFACES.
2. BLOW CLEAN WITH COMPRESSED AIR, EQUIPPED WITH EFFECTIVE OIL AND WATER TRAP.
3. APPLY PRIMER.
4. APPLY SEALANT. HOLD DOWN AS SHOWN BELOW TOP OF CONCRETE. REFER TO SPECIFICATIONS 033000 FOR ADDITIONAL INFORMATION.

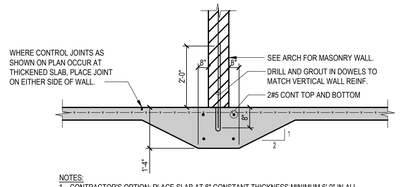


NOTE: THIS DETAIL APPLIES TO ALL SUPPORTED GARAGE SLABS. REFER TO SPEC SECTION 033000 FOR ADDITIONAL INFORMATION.

TYPICAL SUPPORTED SLAB SEALED CONSTRUCTION JOINT

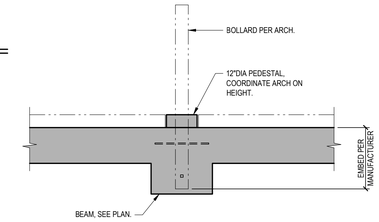


CONSTRUCTION JOINTS IN SOLID SLABS

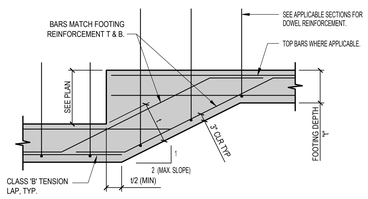


NOTES:
1. CONTRACTOR'S OPTION: PLACE SLAB AT 8" CONSTANT THICKNESS MINIMUM 6'-0" IN ALL DIRECTIONS FROM CMU WALLS.
2. THICKENED SLAB NOT REQUIRED WHERE MASONRY WALL IS SUPPORTED ON A FOOTING. SEE FOUNDATION PLAN.

THICKENED SLAB ON GRADE AT MASONRY WALLS

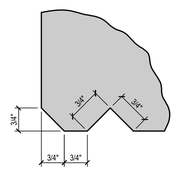


BOLLARD AT RACE ST



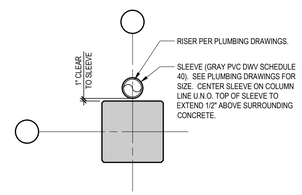
NOTE: SEE PLAN FOR LOCATIONS OF FOOTING STEPS.

TYPICAL FOOTING STEP

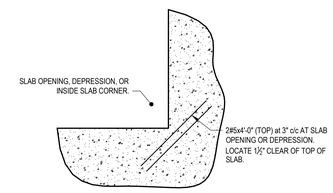


REQUIRED AT BOTTOM EDGES OF ALL EXPOSED SOFFITS AND BEAMS IN PARKING GARAGE AND AS NOTED.

TYPICAL CHAMFER AND DRIP EDGE

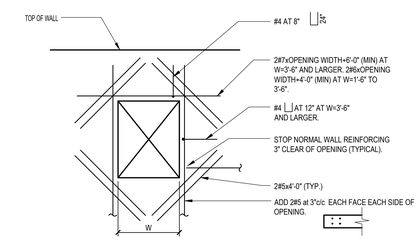


TYPICAL UPPER LEVEL RISER/SLEEVE LAYOUT



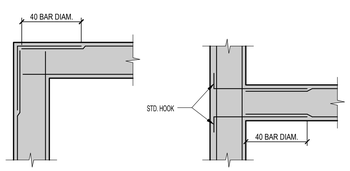
NOTE: DETAIL APPLIES AT BOTH ELEVATED SLABS AND SLABS ON GRADE U.N.O.

TYPICAL BARS AT SLAB CORNER



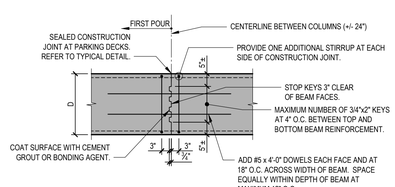
NOTES:
1. SLEEVED OPENINGS 18" AND SMALLER REQUIRE NO ADDITIONAL REINFORCEMENT. PLACE DETAILED REINFORCEMENT (HORIZ. AND VERT.) EACH SIDE OF SLEEVE, 3" CLEAR.
2. FOR SINGLE LAYER WALLS USE SINGLE BARS AS SHOWN.
3. AT ROUND OPENINGS PLACE DIAGONAL BARS 3" CLEAR.
4. REINFORCE OPENINGS PER THIS DETAIL UNLESS OTHERWISE SHOWN.

WALL OPENING REINFORCEMENT



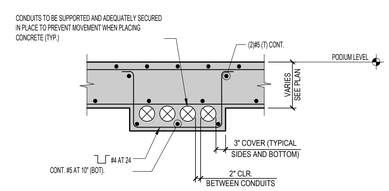
NOTES:
1. CORNER BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.
2. FOR SINGLE LAYER WALLS, USE SINGLE BARS AS SHOWN.

BARS AT WALL AND FOOTING CORNERS AND INTERSECTIONS



NOTES:
1. ALL SCHEDULED BEAM REINFORCEMENT IS CONTINUOUS THROUGH CONSTRUCTION JOINT.
2. LOCATION OF SLAB AND BEAM CONSTRUCTION JOINTS SHALL BE SHOWN ON THE REINFORCING STEEL SHOP DRAWINGS.
3. LOCATIONS OF JOINTS TO BE APPROVED BY THE STRUCTURAL ENGINEER.

BEAM CONSTRUCTION JOINT



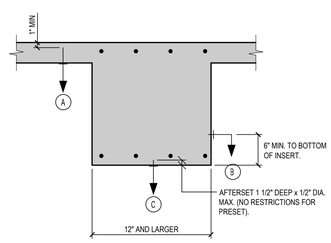
NOTES:
1. NUMBER, SIZE, AND ORIENTATION VARIES. REFER TO DRAWING ES1.04. COORDINATE WITH DUKE ENERGY AND CONSTRUCTION MANAGER.
2. DEPTH AND WIDTH OF ENCASEMENT VARIES BASED ON NUMBER, SIZE, AND ORIENTATION OF CONDUITS.

TYPICAL ENCASEMENT FOR ELECTRICAL CONDUITS

LINTEL SCHEDULE	
CLEAR SPAN	8" CMU
LESS THAN 4'-0"	2#4 BOTTOM
BETWEEN 4'-0" AND 6'-0"	2#5 BOTTOM
BETWEEN 6'-0" AND 8'-0"	2#6 BOTTOM
BETWEEN 8'-0" AND 10'-0"	2#7 BOTTOM
MORE THAN 10'-0"	CONSULT ENGINEER

LINTEL SCHEDULE NOTES:
1. LINTELS FOR 8" CMU ARE 8" CMU BOND BEAM WITH REINFORCEMENT AS SCHEDULED.
2. LENGTH OF LINTEL IS CLEAR SPAN PLUS 8" BEARING AT EACH END.

TYPICAL LINTEL SUPPORT

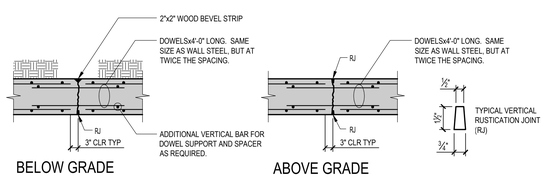


BEAM

MAXIMUM ALLOWABLE LOADING WITHOUT SPECIAL APPROVAL		
MARK	PRESET INSERTS - EMBEDDED (MAXIMUM LOAD)	AFTERSET INSERTS - DRILLED OR SHOT (MAXIMUM LOAD)
A	300 POUNDS	200 POUNDS
B	2000 POUNDS	200 POUNDS
C	1500 POUNDS	150 POUNDS

NOTES:
1. INSERTS MUST NOT INTERFERE WITH REINFORCEMENT.
2. MANUFACTURER'S LOAD TABLES OR DESIGN INFORMATION MUST BE SUBMITTED TO INDICATE CAPACITY OF INSERT FOR THE SPECIFIC INSTALLATION.
3. REFER TO DESIGN LOADS IN GENERAL NOTES FOR MAXIMUM UNIFORM ALLOWABLE LOAD FOR CEILING AND MISCELLANEOUS MATERIALS.

TYPICAL HANGING LOADS

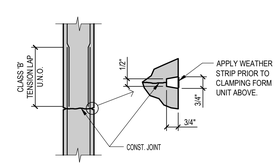


BELOW GRADE

ABOVE GRADE

NOTES:
1. FORM TIES TO BE WITHIN 6" OF ANY JOINT.
2. UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN PERIMETER FOUNDATION WALLS AT MAXIMUM 30'-0" O.C.
3. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING REQUIREMENTS.
4. DETAIL CONTROL JOINTS ON SHOP DRAWINGS. 5. LOCATE CONSTRUCTION JOINTS AT CONTROL JOINTS.

TYPICAL VERTICAL WALL CONTROL JOINTS

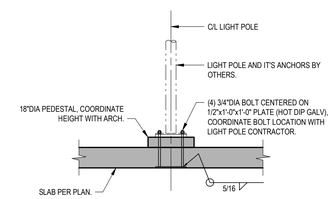


WALL SHOWN; COLUMN SIMILAR

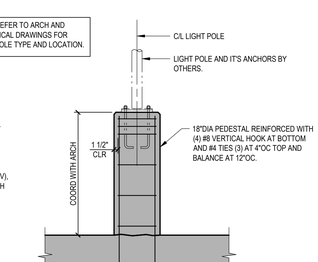
NOTE: DETAIL APPLIES AT ALL CONSTRUCTION JOINTS EXPOSED TO PUBLIC VIEW.

HORIZONTAL WALL OR COLUMN RUSTICATION JOINT

NOTE: REFER TO ARCH AND ELECTRICAL DRAWINGS FOR LIGHT POLE TYPE AND LOCATION.



TYPE PL-1



TYPE PL-2, PL-3

LIGHT POLE DETAILS

FOR REFERENCE ONLY

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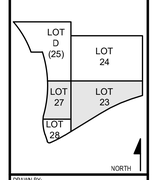
THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES	
1	DESIGN DEVELOPMENT
2	50% CD'S
3	BID PACKAGE #5
4	BP'S PERMIT SET
5	BID PACKAGE #6 - DD PRICING
6	BULLETIN #8
7	BID PACKAGE #6 - SCOPING SET



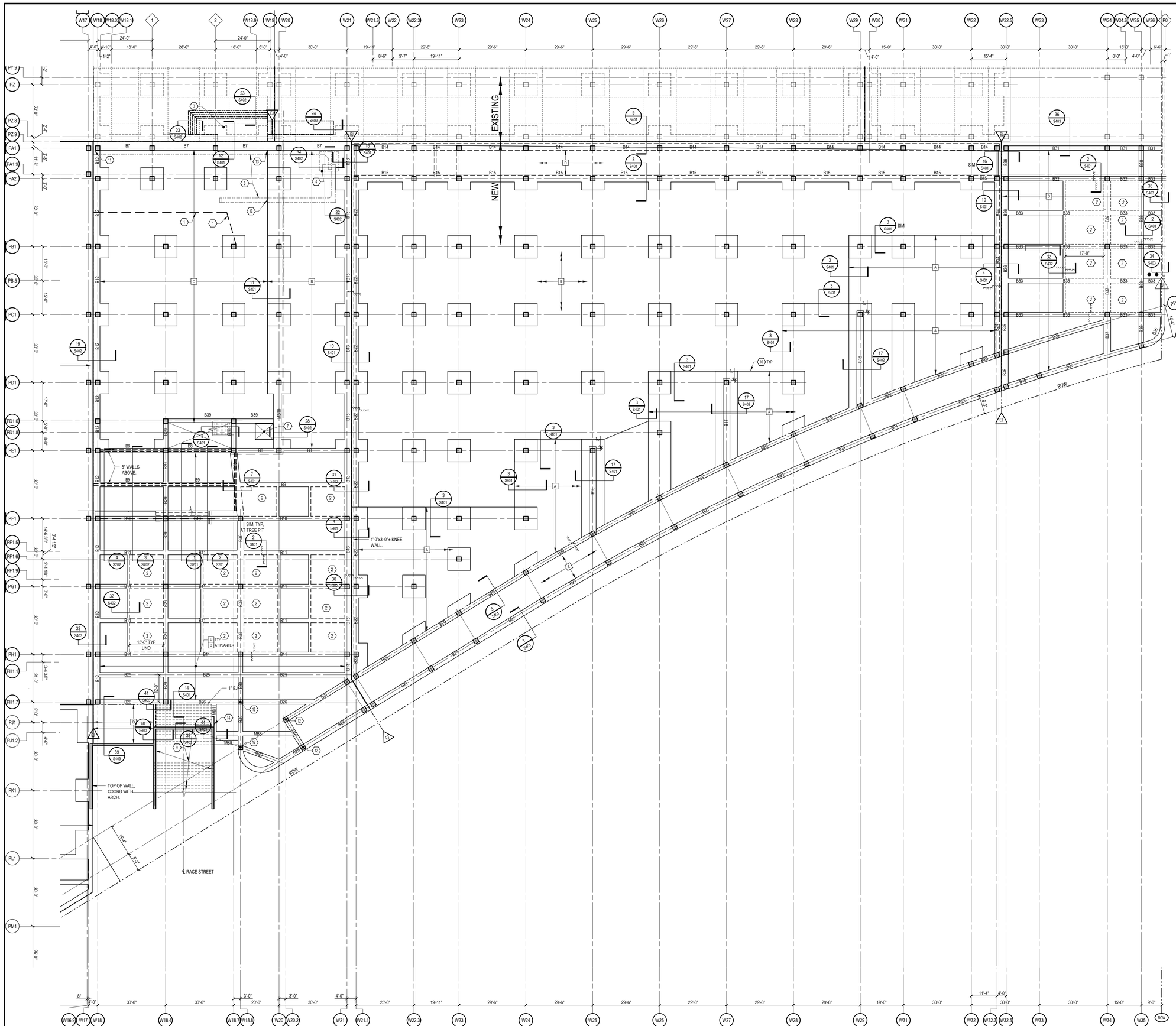
DRAWN BY: P.A.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: TYPICAL DETAILS

JOB NUMBER: 98090.38
DATE: 5/10/2019
DRAWING NUMBER: S002



PARK LEVEL FRAMING PLAN (500)

1/16" = 1'-0"

NORTH

DRAWING NOTES:

A. REFER TO DRAWING S001 FOR GENERAL NOTES.
B. REFER TO DRAWING S002 FOR TYPICAL DETAILS.
C. REFER TO 500-SERIES DRAWINGS FOR COLUMN SCHEDULE AND DETAILS.
D. REFER TO 600-SERIES DRAWINGS FOR TWO-WAY SLAB DIAGRAM AND BEAM SCHEDULE AND DIAGRAMS.
E. TOP OF SLAB VARIES FOR DRAINAGE. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS.
F. Bxx INDICATES CONCRETE BEAM MARK. SEE DIAGRAMS ON DRAWING S600 SERIES.
G. MBxx INDICATES CONCRETE MISCELLANEOUS BEAM MARK. SEE MISCELLANEOUS BEAM SCHEUDE ON S8.31.

LEGEND:

☐ EXISTING COLUMN/WALL.

PLAN NOTES:

1. SLAB TOP STEP PER ARCH. SEE DETAIL 29/S402 FOR INFORMATION.
2. TREE PLANTER, SEE ARCH.
3. OVERBUILD LANDING, RAMP/STEP, SEE ARCH. 4" SLAB REINF W/ 42# MESH ON RIGID INSULATION, PROVIDE 6" WALL AT PERIMETER.
4. TRANSFORMER PAD. COORDINATE WITH ARCH AND MECHANICAL ON LOCATION. SEE DETAIL 22/S402 AND 42/S403.
5. DUCT BANK, COORDINATE WITH MECHANICAL. SEE TYPICAL DETAIL ON S002 FOR REINFORCING INFORMATION.
6. PLANTER CANTILEVERED OVER LOT 27 STRUCTURE. SEE ARCH FOR EXACT LOCATION.
7. ELEVATOR OPENING. SEE ARCH FOR EXACT SIZE AND LOCATION.
8. NOT USED.
9. 8" SLAB ON GRADE REINFORCED WITH #4 AT 10"OC BOTTOM.
10. SLAB BOTTOM STEP.
11. PROVIDE EXPANSION FITTINGS WITH SILICONE O-RING AND RETAINING RINGS FOR CONDUITS IN DUCT BANK AT EXPANSION JOINT. COORDINATE WITH ELECTRICAL.
12. FUTURE PERGOLA COLUMN. PROVIDE ANCHOR BOLT PER DETAIL 37/S403.
13. SLOPE DUCT BANK SOFFIT IN 1V:3H SLOPE AT BOTTOM SLAB STEP.
14. EXTEND PORTION OF BEAM DOWN PER SECTION 43/S403 TO MATCH SOFFIT OF THE STAIR.

FOR SLEEVE REQUIREMENTS, REFER TO MEP DRAWINGS AND SECTIONS 22 05 04 AND 22 05 07 (SLEEVE PLACEMENT COORDINATION DRAWINGS AND MATERIALS).

SLAB SYSTEM SCHEDULE

MARK ☐	TYPE	DEPTH	DROP PANELS
A	2-WAY SLAB	16"	10'-0"x10'-0"x12" (D)
B	2-WAY SLAB	14"	10'-0"x10'-0"x12" (D)
C	2-WAY SLAB	10"	10'-0"x10'-0"x8" (D)
D	1-WAY SLAB	10"	NA
E	1-WAY SLAB	8"	NA

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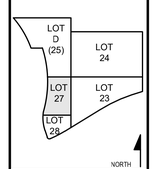
Phone: (513) 241-3222
Fax: (513) 241-2981

ISSUES		
1	5/10/2019	DESIGN DEVELOPMENT
2	8/30/2019	SCOPING SET
3	9/27/2019	BID PACKAGE #5
4	11/27/2019	BULLETIN #4
4	12/12/2019	BID PACKAGE #6 - DD PRICING
5	12/24/2019	BULLETIN #6
6	1/9/2020	BULLETIN #7
7	1/10/2020	BULLETIN #8 - REV. 1
8	1/21/2020	BULLETIN #9
9	1/31/2020	BID PACKAGE #6 - SCOPING SET



DRAWN BY: J.T.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

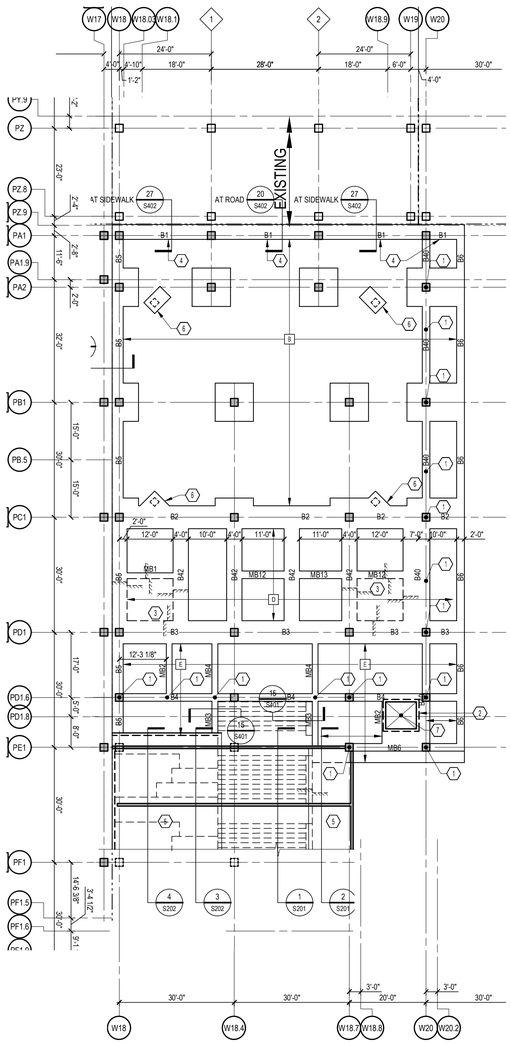
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: UPPER LEVEL (500) FRAMING PLAN

JOB NUMBER: 98090.38
DATE: 5/10/2019

DRAWING NUMBER: S102B



DRAWING NOTES:

A. REFER TO DRAWING S001 FOR GENERAL NOTES.
B. REFER TO DRAWING S002 FOR TYPICAL DETAILS.
C. REFER TO 500-SERIES DRAWINGS FOR COLUMN SCHEDULE AND DETAILS.
D. REFER TO 600-SERIES DRAWINGS FOR TWO-WAY SLAB DIAGRAM AND BEAM SCHEDULE AND DIAGRAMS.
E. TOP OF SLAB VARIES FOR DRAINAGE. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS.
F. Bxx INDICATES CONCRETE BEAM MARK. SEE DIAGRAMS ON DRAWING S600 SERIES.
G. MBxx INDICATES CONCRETE MISCELLANEOUS BEAM MARK. SEE MISCELLANEOUS BEAM SCHEUKE ON S8.31.

LEGEND:

EXISTING COLUMN/WALL.

PLAN NOTES:

1. FUTURE PERGOLA COLUMN. PROVIDE ANCHOR BOLT PER DETAIL 37/S403.
2. ELEVATOR STRUCTURE ABOVE PODIUM LEVEL: 8" PERIMETER WALL REINFORCED WITH #5 AT 12"OC EACH WAY CENTERED IN WALL. 8" THICK ROOF SLAB WITH REINFORCEMENT AT 4 PSF.
3. 16" DEPRESSION IN SLAB FOR TREE PIT.
4. BOTTOM OF BEAM LEVEL AT ELEVATION 511.62'± TO MATCH EXISTING BEAM SOFFIT TO THE NORTH.
5. SLOPED PLANTER AND SEATING SLAB, SEE CORRESPONDING SECTIONS.
6. LIGHT POLE AND ASSOCIATED PULL BOX, REFER TO ARCH FOR EXACT LOCATION. SEE SECTION 21/S402 ALSO.
7. ELEVATOR OPENING, REFER TO ARCH FOR EXACT SIZE AND LOCATION.

FOR SLEEVE REQUIREMENTS, REFER TO MEP DRAWINGS AND SECTIONS 22 05 04 AND 22 05 07 (SLEEVE PLACEMENT COORDINATION DRAWINGS AND MATERIALS).

SLAB SYSTEM SCHEDULE

MARK	TYPE	DEPTH	DROP PANELS
A	2-WAY SLAB	16"	10'-0"x10'-0"x12" (D)
B	2-WAY SLAB	14"	10'-0"x10'-0"x12" (D)
C	2-WAY SLAB	10"	10'-0"x10'-0"x8" (D)
D	1-WAY SLAB	10"	NA
E	1-WAY SLAB	8"	NA

PODIUM LEVEL FRAMING PLAN (515)

1/16" = 1'-0"

NORTH

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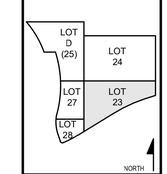
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

ISS.&S.		
1	5/10/2019	DESIGN DEVELOPMENT
2	8/9/2019	SCOPING SET
3	8/22/2019	BID PACKAGE #5
4	9/9/2019	BP5 PERMIT SET
5	9/23/2019	ADDENDUM #2
6	12/12/2019	BID PACKAGE #6 - DD PRICING
7	12/12/2020	BULLETIN #0
8	1/11/2020	BID PACKAGE #6 - SCOPING SET
9	1/31/2020	BID PACKAGE #6 - SCOPING SET



DRAWN BY: P.A.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

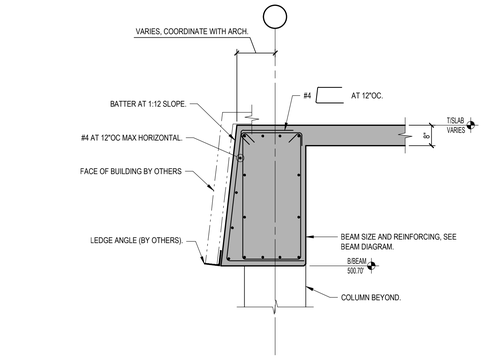
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PODIUM LEVEL (515) FRAMING PLAN

JOB NUMBER 98090.38
DATE 5/10/2019

DRAWING NUMBER
S103B



1 S401 **SECTION**
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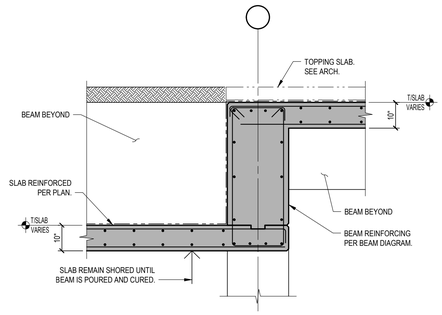

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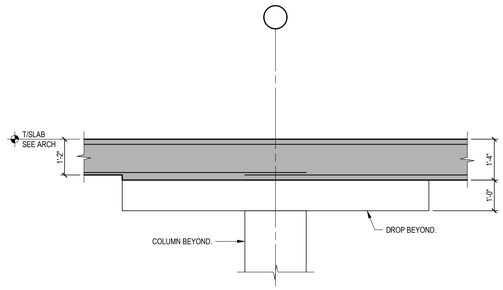

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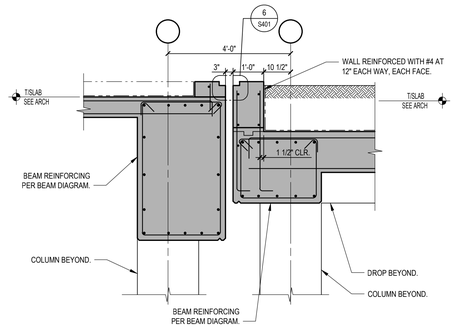

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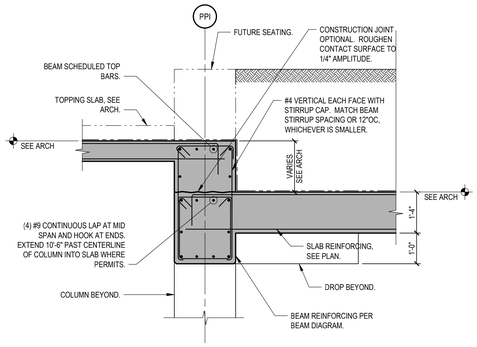
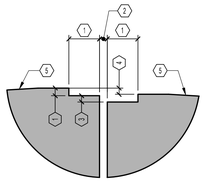


5 S401 **SECTION**
1/2" = 1'-0"

EXPANSION JOINT SEAL SLAB PREP:

1. VERIFY BOX-OUT DIMENSION WITH ARCHITECT AND SEAL SUPPLIER.
2. STRUCTURAL GAP AT TIME OF CASTING PER PLAN (+0, -1/2" TOLERANCE).
3. HOLD 1/8"± TOLERANCE, GRIND AS NEEDED TO OBTAIN TOLERANCE AFTER FORMS AND SHORES ARE REMOVED.
4. HOLD ¼"± TOLERANCE, GRIND SURFACE IN GRADUAL SLOPE AS NEEDED TO OBTAIN TOLERANCE AFTER FORMS ARE REMOVED. MAXIMUM SLOPE AFTER GRINDING IS 10%. HOLD 1/16"± TOLERANCE AT TIME OF CASTING FOR EMBEDDED RAILS.
5. SLOPE SURFACE TO DRAIN WATER AWAY FROM JOINT.



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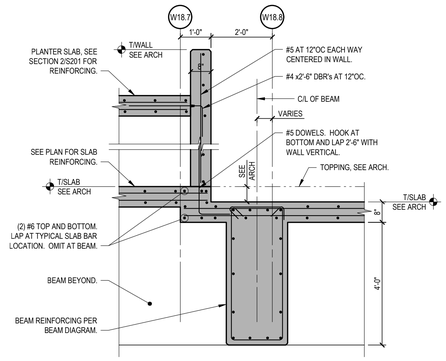

TYPICAL POUR STRIP
7 S401 **SECTION**
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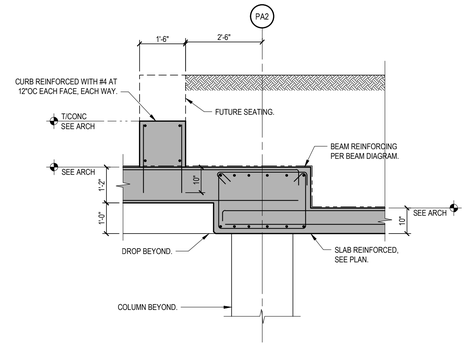

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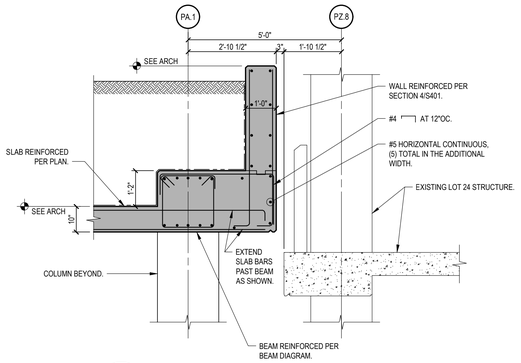

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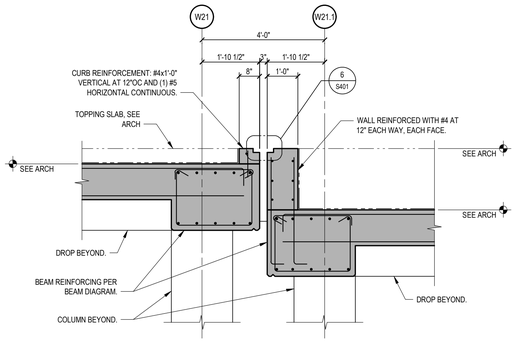

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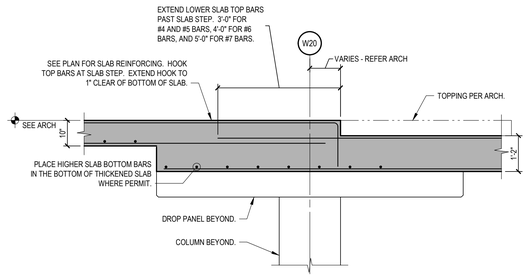

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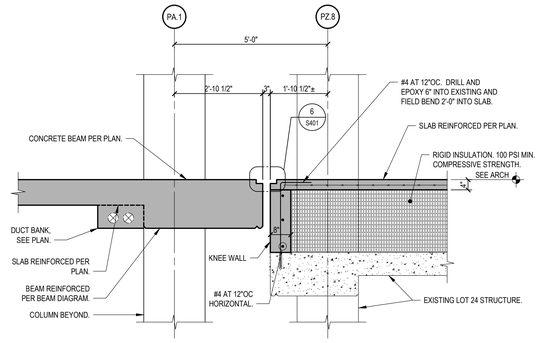

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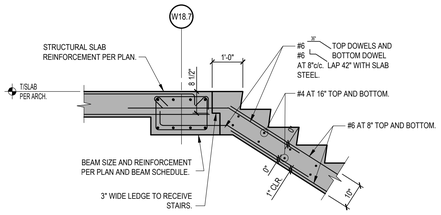

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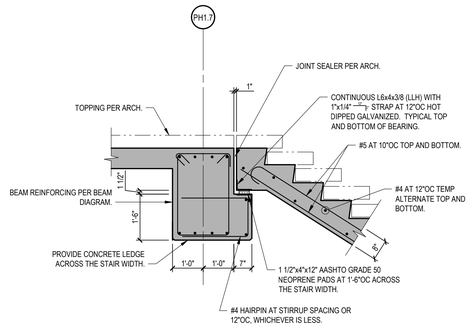

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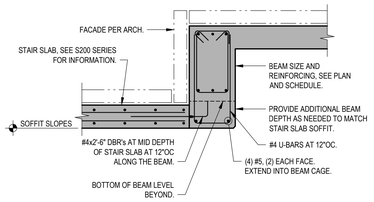

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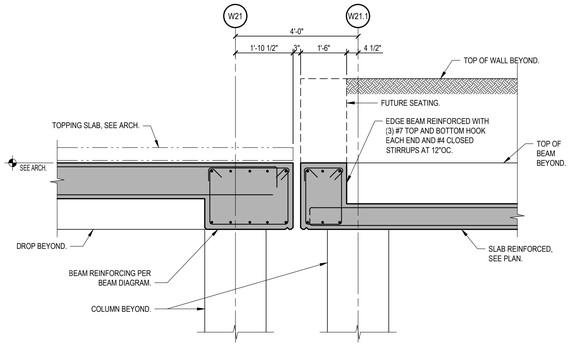

16 S401 **SECTION**
1/2" = 1'-0"

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Fax: (513) 241-2981

ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET

ISSUES		
1	5/10/2019	DESIGN DEVELOPMENT
2	6/10/2019	50% CD SET
3	8/22/2019	BID PACKAGE #5
4	9/9/2019	BP5 PERMIT SET
5	9/23/2019	ADDENDUM #2
6	11/27/2019	BULLETIN #4
7	12/12/2019	BID PACKAGE #6 - BD PRICING
8	12/20/2019	BULLETIN #5
9	1/8/2020	BULLETIN #7
10	1/16/2020	BULLETIN #7 - REV. 1
11	1/21/2020	BULLETIN #8

DRAWN BY: J.T.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

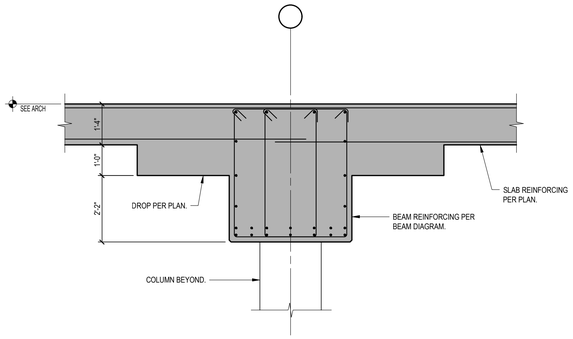
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
FRAMING DETAILS

JOB NUMBER 98090.38
DATE 5/10/2019

DRAWING NUMBER S401



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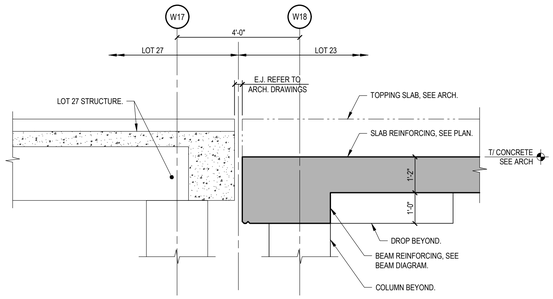

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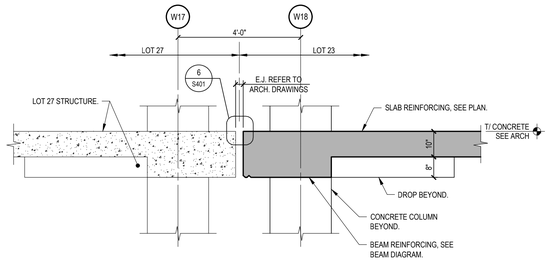
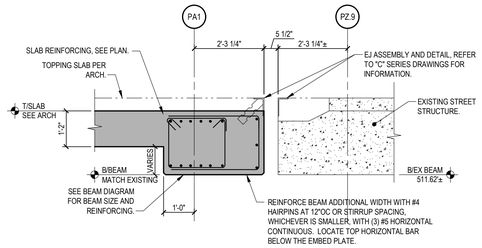


19 S402 **SECTION** 1/2" = 1'-0"



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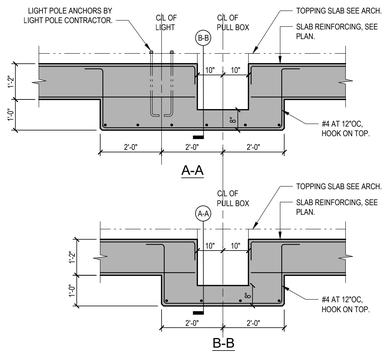

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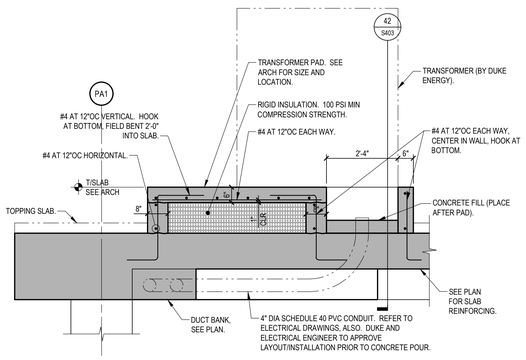

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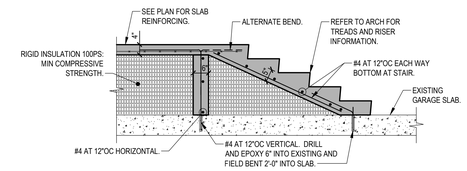

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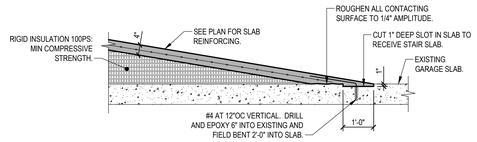

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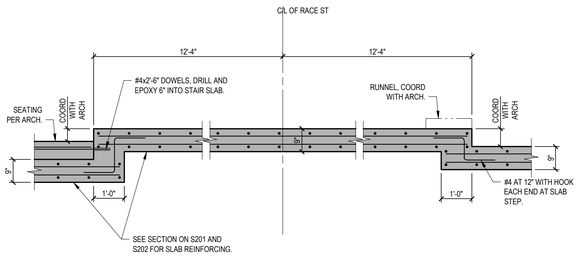

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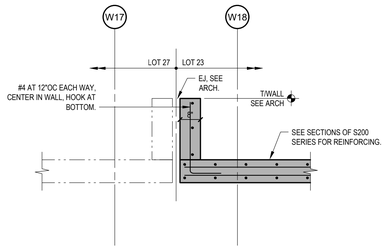

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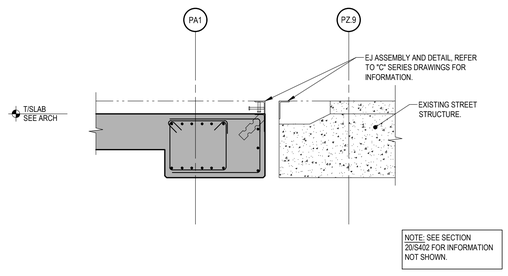

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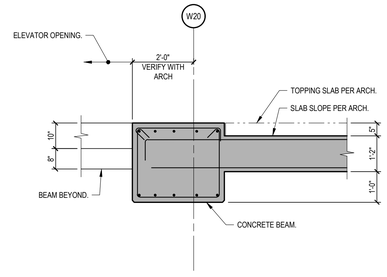
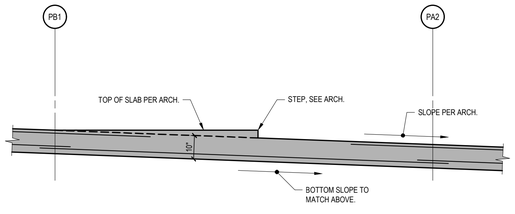


AT SIDEWALK

28 S402 **SECTION** 1/2"=1'-0"



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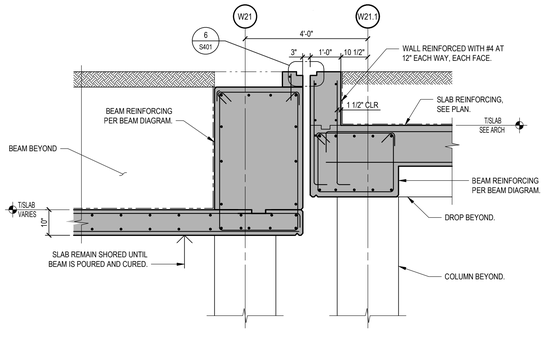

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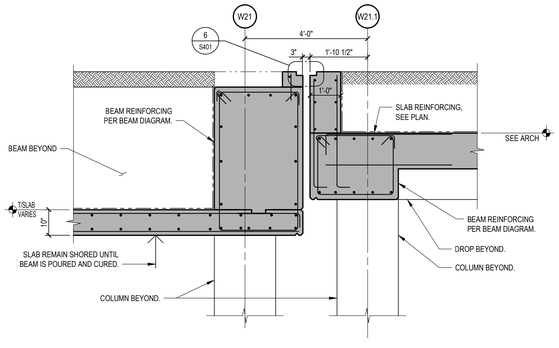

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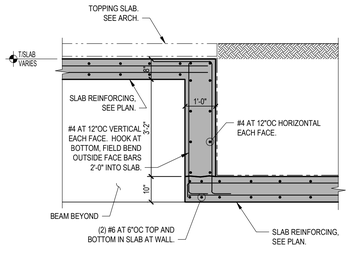

32 S402 **SECTION** 1/2"=1'-0"

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ISSUES

ISSUES		
1	5/10/2019	DESIGN DEVELOPMENT
2	6/13/2019	SCOPING SET
3	8/22/2019	BID PACKAGE #5
4	9/9/2019	BPS PERMIT SET
5	9/23/2019	ADDENDUM #2
6	11/27/2019	BULLETIN #4
7	12/12/2019	BID PACKAGE #6 - 50 PRICING
8	12/12/2019	BULLETIN #5
9	12/12/2020	BULLETIN #8
10	1/31/2020	BID PACKAGE #8 - SCOPING SET

DRAWN BY: J.T.B.

ENGINEER: J.Y.

CHECKED BY: M.L.H.

THE BANKS PHASE 3B

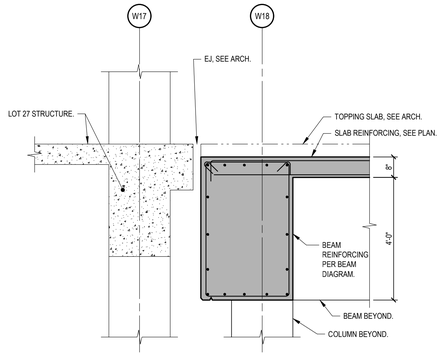
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: FRAMING DETAILS

JOB NUMBER: 98090.38

DATE: 5/10/2019

DRAWING NUMBER: S402



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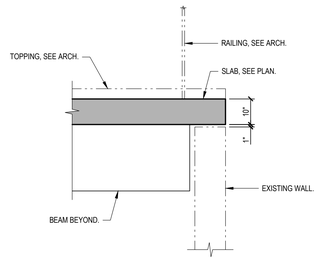

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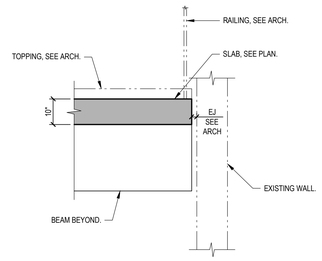

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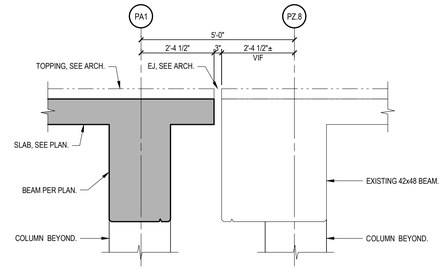

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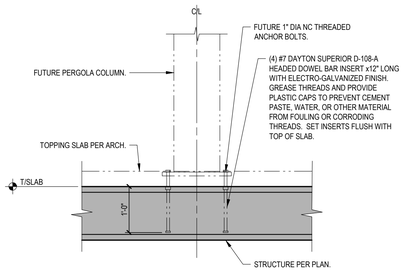

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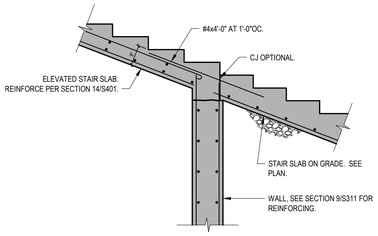
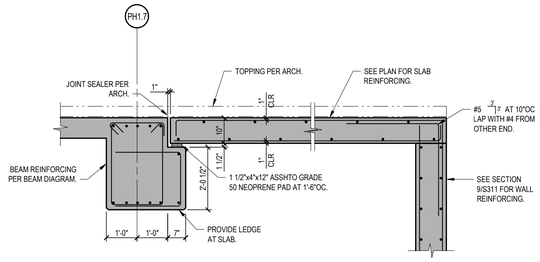
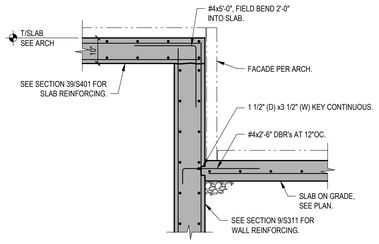


38 S403 **SECTION**
1/2"=1'-0"



39 S403 **SECTION**
1/2"=1'-0"



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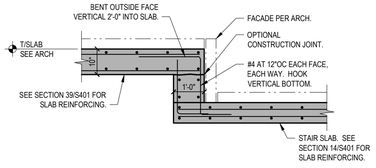
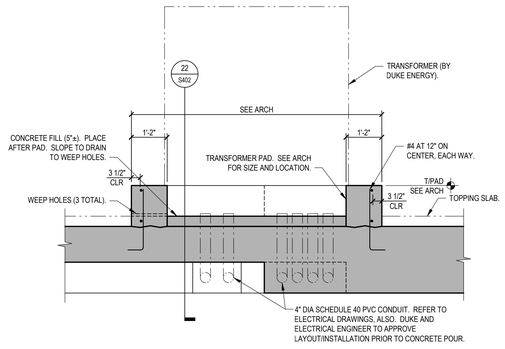
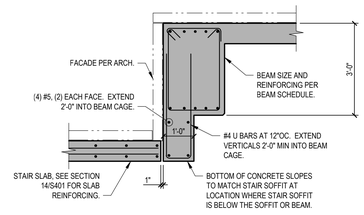
1/2"=1'-0"



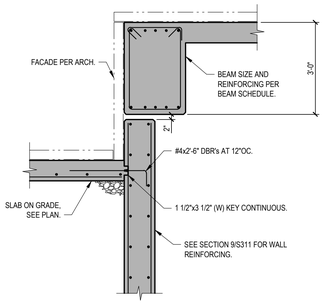
41 S403 **SECTION**
1/2"=1'-0"



42 S403 **SECTION**
1/2"=1'-0"



43 S403 **SECTION**
1/2"=1'-0"



44 S403 **SECTION**
1/2"=1'-0"

FOR REFERENCE ONLY

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ISSUES		
1	8/22/2019	BID PACKAGE #5
2	9/30/2019	ADDENDUM #2
3	9/30/2019	ADDENDUM #2
4	11/27/2019	BULLETIN #4
5	12/12/2019	BID PACKAGE #6 - DD PRICING
6	1/31/2020	BID PACKAGE #6 - SCOPING SET

DRAWN BY: J.T.B.
ENGINEER: J.Y.
CHECKED BY: M.L.H.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: FRAMING DETAILS

JOB NUMBER: 98090.38
DATE: 8/22/2019

DRAWING NUMBER: S403

FITTINGS

	CHECK VALVE
	CONCENTRIC PIPE REDUCER
	UNION
CO	CLEANOUT TO GRADE OR FINISHED FLOOR

PIPING SYMBOLS

SINGLE LINE

	BOTTOM CONNECTION (45°)
	BOTTOM CONNECTION (90°)
	BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED)
	DIRECTION OF PITCH
D	DROP
	ELBOW DOWN
	ELBOW UP
	EXISTING PIPE TO BE REMOVED
	EXISTING PIPE TO REMAIN
	FLOW DIRECTION DESIGNATION
	PIPE RISER
	PUMP
R	RISE
	TOP CONNECTION (45°)
	TOP CONNECTION (90°)

PLUMBING PIPING DESIGNATIONS

	EXISTING PIPE TO REMAIN
GD	GARAGE DRAINAGE PIPE
NPW	NON POTABLE WATER PIPE (HOSE BIBB)
IRR	NON POTABLE WATER PIPE - IRRIGATION
WD	NON POTABLE WATER PIPE - WASH DOWN
PD	PUMP DISCHARGE PIPE
SAN	SANITARY DRAINAGE PIPE
STM	STORM DRAINAGE PIPE
V	SANITARY SEWER VENT
WS	WATER SERVICE

GENERAL FLOOR PLAN NOTES

10" ELEV: 8' - 0" / 10" ELEV: 8' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
TOE: 3' - 0" / BOE: 0' - 6"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
2	RISER OR STACK NUMBER
B / P2	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
1 / P2	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	CONNECT TO EXISTING
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
A1	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)

ABBREVIATIONS

AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
ALT - ALTERNATE
APPROX - APPROXIMATE
ARCH - ARCHITECT OR ARCHITECTURAL
ASSY - ASSEMBLY

BLDG - BUILDING
BOB - BOTTOM OF BEAM
BOF - BOTTOM OF FOOTING
BOP - BOTTOM OF PIPE
BOT - BOTTOM
BTU - BRITISH THERMAL UNIT
BTUH - BRITISH THERMAL UNIT PER HOUR
BTWN - BETWEEN

CB - CATCH BASIN
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM - CUBIC FEET PER MINUTE
CI - CAST IRON
CMU - CONCRETE MASONRY UNIT
CO - CLEAN OUT
CONN - CONNECT OR CONNECTION
CONTR - CONTRACTOR
CTR - CENTER
CU - COPPER
CW - COLD WATER
CWS - COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY

D - DEPTH OR DRAIN LINE
DD - DECK DRAIN
DET - DETAIL
DFU - DRAINAGE FIXTURE UNIT
DIA - DIAMETER
DIM - DIMENSION
DN - DOWN
DS - DOWN SPOUT OR SPRINKLER (DRY)
DWG - DRAWING

EA - EACH
EJ - EXPANSION JOINT
ELEV - ELEVATOR
EQ - EQUAL
EQUIP - EQUIPMENT
ETR - EXISTING TO REMAIN
EQS - EQUIPMENT SUPPLIER
EXP - EXPANSION
EXT - EXTERIOR
EX - EXISTING

FCO - FLOOR CLEANOUT
FD - FLOOR DRAIN
FF - FINISHED FLOOR ELEVATION
FLR - FLOOR
FM - FORCE MAIN
FPM - FEET PER MINUTE
FT - FEET
FTG - FOOTING

G - GAS OR NATURAL GAS
GA - GAUGE
GAL - GALLON
GALV - GALVANIZED
GD - GARAGE DRAINAGE
GPM - GALLONS PER MINUTE

HD - HUB DRAIN
HP - HORSEPOWER OR HIGH POINT

ID - INSIDE DIAMETER
INV - INVERT ELEVATION
IN - INCHES

L - LENGTH
LBS - POUNDS

MAX - MAXIMUM
MFR - MANUFACTURER
MH - MANHOLE
MIN - MINIMUM OR MINUTE
MISC - MISCELLANEOUS

NIC - NOT IN CONTRACT
NOM - NOMINAL
NPT - NATIONAL PIPE THREAD
NTS - NOT TO SCALE

OD - OUTSIDE DIAMETER OR OVERFLOW DRAIN
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

PC - PLUMBING CONTRACTOR (DIVISION 22)
PD - PUMP DISCHARGE OR PARAPET DRAIN
PLBG - PLUMBING
PRESS - PRESSURE
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PSIG - POUNDS PER SQUARE INCH GAUGE

RAD - RADIUS
RCP - REINFORCED CONCRETE PIPE
REQD - REQUIRED

SAN - SANITARY OR SANITARY DRAIN
SCH - SCHEDULE
SHT - SHEET
SPEC - SPECIFICATIONS
SQ - SQUARE
SS - SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
STD - STANDARD
STM - STORM OR STORM DRAINAGE
STRUC - STRUCTURAL OR STRUCTURE
SUC - SITE UTILITY CONTRACTOR

TOB - TOP OF BEAM
TOF - TOP OF FOOTING
TOP - TOP OF PIPE
TOS - TOP OF SLAB OR TOP OF STEEL
TYP - TYPICAL

UNO - UNLESS NOTED OTHERWISE

V - VENT OR SANITARY SEWER VENT
VEL - VELOCITY
VOL - VOLUME
VS - VENT STACK
VR - VENT RISER

W/ - WITH
W/O - WITHOUT
W - WASTE
WS - WATER SERVICE

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

SHEET LIST BP6 PLUMBING

Sheet Number	Sheet Name
P001BP	LEGEND AND INDEX
P002BP	SCHEDULES DETAILS AND NOTES
P101BP	LOWER LEVEL PLUMBING PLAN (LOT 23)
P102BP	UPPER LEVEL PARK PLAN (LOT 23)
P103BP	PODIUM LEVEL PLUMBING PLAN (LOT 23)

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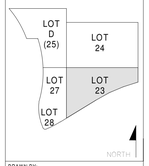
2-19-2020

ISSUES		
1	2/21/2020	BID PACKAGE #6



DRAWN BY: ALO
ENGINEER: DJT
CHECKED BY: DNM

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: LEGEND AND INDEX

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER: P001BP

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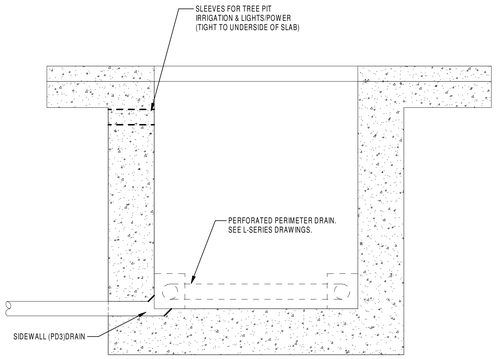
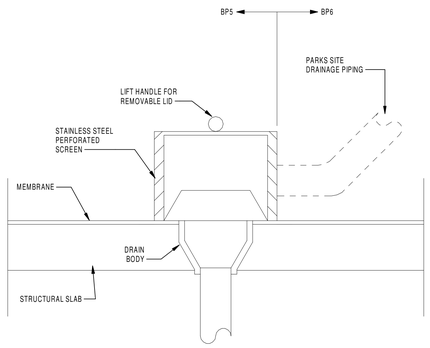


1 TYPICAL DETAIL AT TREE PIT (PD3 DRAIN)



2 SUBSURFACE (PD1) PLANTER DRAIN DETAIL

GENERAL NOTES

A IN THE PARKING GARAGE AREAS, ALL ABOVE GROUND PIPING SHALL BE INSTALLED AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE: NO PIPING, FITTINGS, HANGARS, OR OTHER ASSOCIATED EQUIPMENT SHALL BE BELOW 8'-4" ABOVE FINISHED FLOOR ELEVATION.

B ALL ABOVE GROUND PIPING TO BE INSTALLED AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURE AREAS UNLESS OTHERWISE NOTED.

C TO FACILITATE DRAINAGE AND WINTERIZATION, PROVIDE VALVES AND THREADED STUB AT ALL LOW POINTS OF THE POTABLE, IRRIGATION, AND WASHDOWN WATER SYSTEMS IN ADDITION TO ALL SHOWN ON PLANS.

D DRAINAGE PIPE FROM FREEZE PROOF GROUND HYDRANTS SHALL BE INSTALLED WITH SLOPE OR OFFSETS TO PROMOTE TOTAL DRAINAGE OF HYDRANTS.

EQUIPMENT DATA

SD1 SLOT DRAIN
PRECAST POLYESTER CONCRETE CHANNEL, INTERLOCKING NEUTRAL (0%) SLOPE CHANNELS, INTEGRAL RAIL, RADIUS BOTTOM, 4" INTERNAL WIDTH, HEELPROOF, 0.47" SLOTTED GRATE. DESIGN BASIS: JR SMITH 9835 USING 9895 DRAIN.

GH GROUND HYDRANT (MILD CLIMATE)
HINGED NICKEL BRONZE BOX, 0.75" HOSE CONNECTION, BOX DRAIN HOLE AND VALVE HOUSING DRAIN HOLE. BURY DEPTH SHALL BE COORDINATED WITH STRUCTURE BELOW TO PROVIDE ADEQUATE SPACE TO ROUTE SUPPLY AND DRAIN PIPE.
DESIGN BASIS: SMITH 5810-SAP

BP BOOSTER PUMP
BOOSTER PUMP SYSTEM ASSEMBLY, INLINE, CONSTANT WATER PRESSURE, EXPANSION TANK, CONTROLLER, MOUNTING BRACKETS, AND PRESSURE SENSOR.
110V-1PH, 0.5HP
30 GPM, 60 PSI TDH
DESIGN BASIS: GRUNDFOS BMQE30

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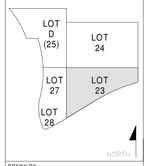
ISSUES		
1	2/21/2020	BID PACKAGE #6

ISSUES



DRAWN BY: ALO
ENGINEER: DJT
CHECKED BY: DNM

THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE &
RACE ST. TURNAROUND

DRAWING TITLE
SCHEDULES DETAILS AND NOTES

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
P002BP

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GENERAL NOTES

A REFER TO ARCHITECTURAL PLANS FOR EXTENTS OF LOWER STRUCTURE ELEMENTS. COORDINATE WITH THESE ELEMENTS AS REQUIRED.

PLAN NOTES

1 REFER TO DETAIL ON THIS SHEET.

2 MAINLINE STUB UP, SEAL PENETRATION. SIZE TO BE DETERMINED.

3 PIPING UNDER SLAB. EXTEND 0.75" PIPE IN 1.25" SCHEDULE 40 PVC SLEEVE. PIPE WITHIN SLEEVE SHALL BE CONTINUOUS WITH NO JOINTS.

4 PENETRATE WALL STRUCTURE AND CONNECT TO WALL MOUNTED HOSE BIBB.

5 THIS SECTION OF PIPING IS LOCATED IN ADJACENT LOT 22 BUILDING. REFER TO REFERENCE DRAWING P105.

6 PROVIDE 0.5" VALVE FOR DRAINING OF PIPING SYSTEM.

7 PROVIDE BP1 DOWNSTREAM OF NPW/IRR BACKFLOW PREVENTER.

8 PROVIDE VALVE AND CONNECT TO DRAINAGE TAPS OF HYDRANT ABOVE.

9 PROVIDE 0.5" STUB WITH VALVE ON SUPPLY TO FIXTURE TO ALLOW FOR DRAINING SYSTEM.

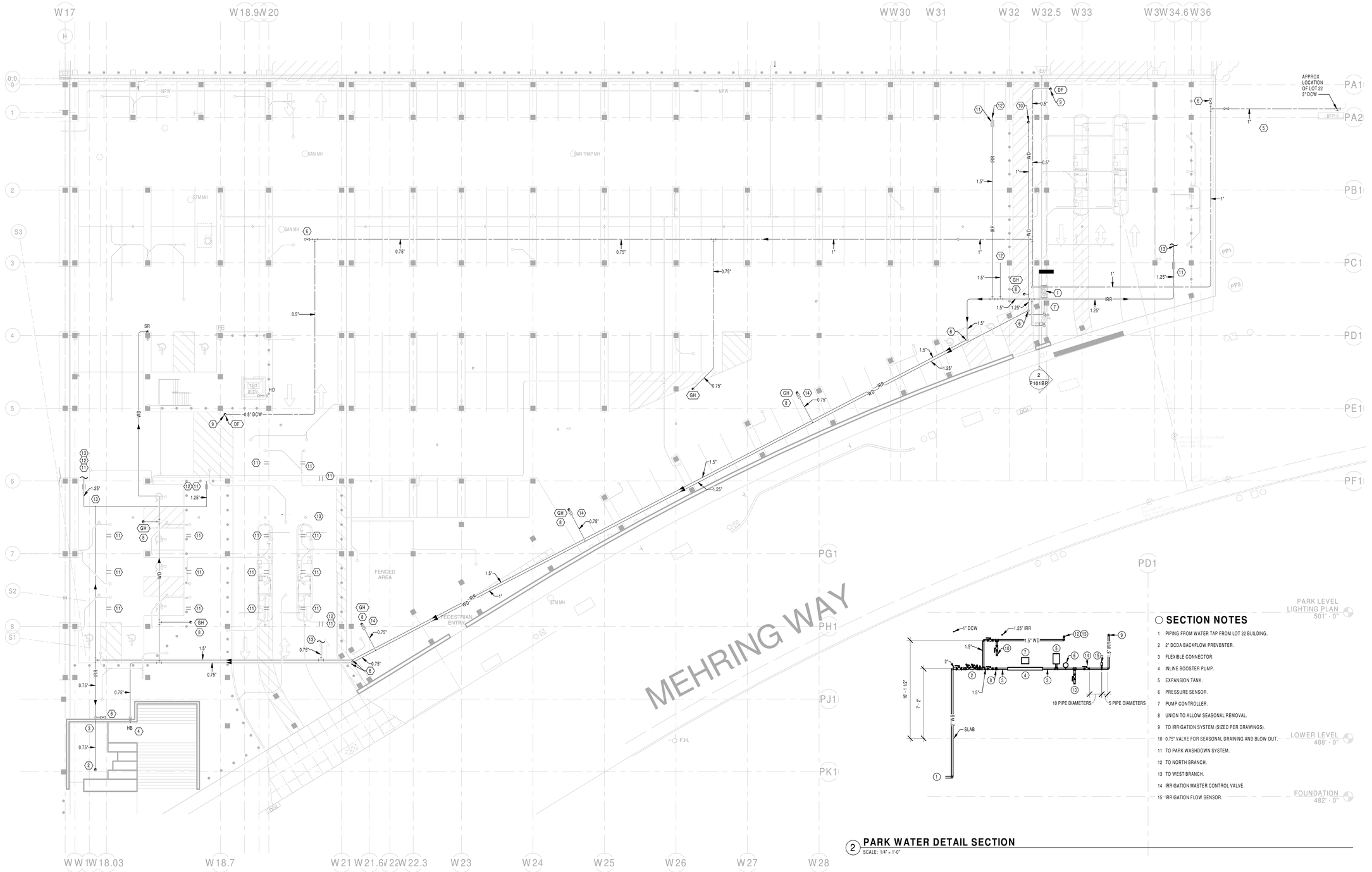
10 PROVIDE 1" WD RISER THROUGH SLEEVE IN BOTTOM OF PIT.

11 SLEEVE THROUGH SIDE OF TREE PIT. REFER TO DETAIL 8/P002.

12 CONNECT TO IRRIGATION EQUIPMENT PROVIDED BY IRRIGATION CONTRACTOR. SEE IR-SERIES DRAWING FOR CONNECTION DETAIL.

13 SEE P102BP FOR CONTINUATION.

14 PROVIDE SLEEVE THROUGH STRUCTURE FOR PIPE.



1 LOWER LEVEL PLUMBING PLAN (LOT 23)
1/16" = 1'-0"

0 8 16 32 48

SECTION NOTES

1 PIPING FROM WATER TAP FROM LOT 22 BUILDING.

2 2" DCDA BACKFLOW PREVENTER.

3 FLEXIBLE CONNECTOR.

4 INLINE BOOSTER PUMP.

5 EXPANSION TANK.

6 PRESSURE SENSOR.

7 PUMP CONTROLLER.

8 UNION TO ALLOW SEASONAL REMOVAL.

9 TO IRRIGATION SYSTEM (SIZED PER DRAWINGS).

10 0.75" VALVE FOR SEASONAL DRAINING AND BLOW OUT.

11 TO PARK WASHDOWN SYSTEM.

12 TO NORTH BRANCH.

13 TO WEST BRANCH.

14 IRRIGATION MASTER CONTROL VALVE.

15 IRRIGATION FLOW SENSOR.

2 PARK WATER DETAIL SECTION
SCALE: 1/4" = 1'-0"

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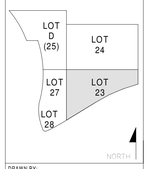
2-19-2020

ISSUES		
1	5/10/2019	DESIGN DEVELOPMENT
2	12/18/2019	BULLETIN #5
3	1/21/2020	BULLETIN #8
4	2/21/2020	BID PACKAGE #6



DRAWN BY: ALO
ENGINEER: DJT
CHECKED BY: DNM

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER LEVEL PLUMBING PLAN (LOT 23)

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
P101BP

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PLAN NOTES

1 DIRECT DRAINAGE FROM SLOT DRAIN TO PD1. REFER TO DETAIL 9 ON P002.

2 PROVIDE SLAB PENETRATIONS AND NPW PIPE. CONNECT TO IRRIGATION ZONE CONTROL VALVE.

3 PROVIDE SLAB PENETRATIONS AND NPW PIPE FOR CONTINUATION TO IRRIGATION SYSTEM.

4 PROVIDE TEE FITTING BELOW CONNECTION TO GROUND HYDRANT AND ROUTE LATERAL TO OTHER HYDRANTS.

5 PROVIDE VALVE AND CONNECT TO DRAINAGE TAPS OF HYDRANT ABOVE.

6 SLOT DRAIN (SD1). REFER TO A-SERIES DRAWINGS FOR DETAILS.

7 STARTING POINT OF SD1. FLOW SHALL FOLLOW PATH TO DISCHARGE TO DRAIN.

8 PROVIDE HEEL PROOF ACCESS ON SLOT DRAIN AT LOCATION OF DISCHARGE POINT TO PD1.

9 CONNECT DISCHARGES FROM SD INTO SINGLE CONNECTION TO DRAIN.

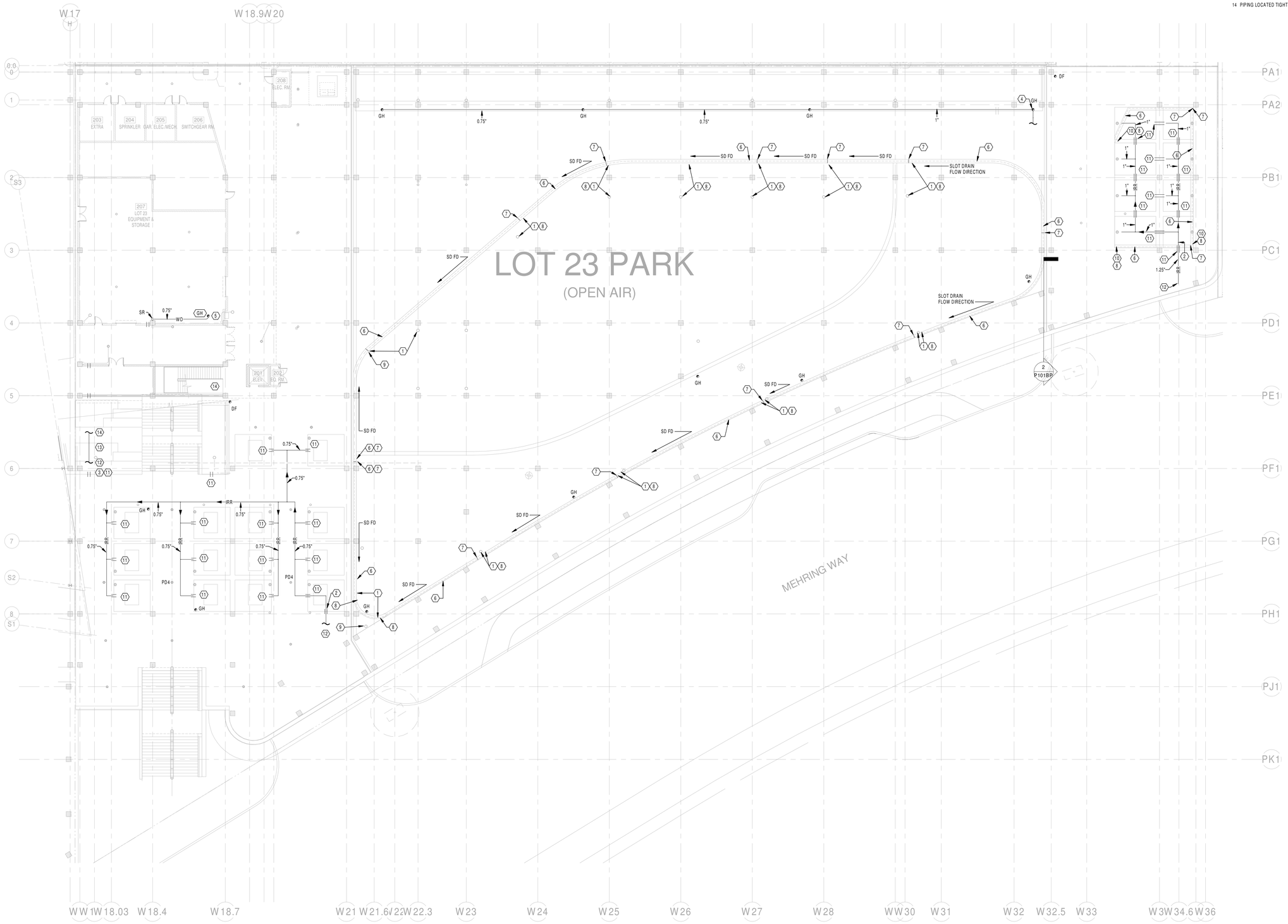
10 DIRECT DRAINAGE FROM SLOT DRAIN TO NEAR SCREEN OF PD3.

11 SLEEVES THROUGH SIDE OF TREE PIT. REFER TO DETAIL 8/P002. REFER TO P101BP AND IRRIGATION DRAWINGS ALSO.

12 PIPING IS LOCATED ON LEVEL BELOW. IT IS SHOWN HERE TO INDICATE ROUTING THROUGH SLEEVES AND TREE PITS. PIPING CONTINUATION IS SHOWN ON P101BP.

13 IRRIGATION PIPING SHALL FOLLOW SLOPE OF PLANTER UP TO BELOW STRUCTURE ABOVE.

14 PIPING LOCATED TIGHT TO PODIUM SLAB ABOVE.



1 UPPER LEVEL PARK PLUMBING PLAN (LOT 23)

SCALE: 1/16" = 1'-0"

0 8 16 32 48

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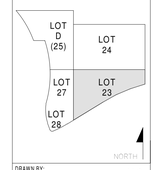
2-19-2020

ISSUES		
1	1/31/2020	BID PACKAGE #6 -SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: ALO

ENGINEER: DJT

CHECKED BY: DNM

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
UPPER LEVEL PARK PLAN (LOT 23)

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
P102BP

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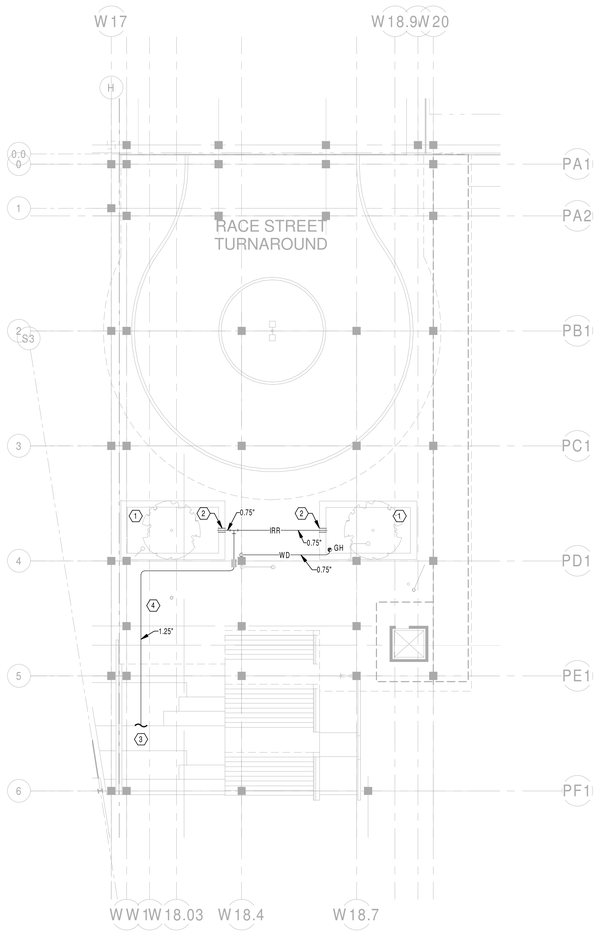
PLAN NOTES

1 SMALL TREE PLANTING ENCLOSURES.

2 PROVIDE SLAB PENETRATION AND NPW PIPE FOR CONTINUATION TO IRRIGATION SYSTEM. REFER TO DETAIL 8/P002.

3 PIPING CONTINUED ON P102BP.

4 PIPING TO BE INSTALLED TIGHT TO PODIUM STRUCTURE.



1 **PODIUM LEVEL PLUMBING PLAN (LOT 23)**
SCALE: 1/16" = 1'-0"

0 8 16 32 48

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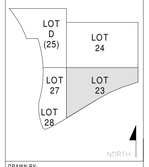
2-19-2020

ISSUES	
1	12/18/2019 BULLETIN #5
2	2/21/2020 BID PACKAGE #6



DRAWN BY: ALO
ENGINEER: DJT
CHECKED BY: DNM

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PODIUM LEVEL PLUMBING PLAN (LOT 23)

JOB NUMBER 2019-07018 02/21/2020

DRAWING NUMBER P103BP

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ELECTRICAL SYMBOLS

	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE). WHEN SHOWN, RECEPTACLE TO HAVE "CONTROLLED" MARKINGS.
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
WP	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.
WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.
IG	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
20A	20A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE).
20A	20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE).
J	JUNCTION BOX.
$	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
2$	TWO POLE WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
P$	SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
K$	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
L$	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
DM$	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED.
R$	SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) STANDARD TWO-GANG ASSEMBLY OF SWITCH AND RECEPTACLE.
M$	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
H$	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.
P/B	PULL BOX.
	DISCONNECT SWITCH.
	MOTOR STARTER.
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL.
AC	AIR CONDITIONER.
CU	CONDENSING UNIT.
BL	BLUE LIGHT PHONE AND LUMINAIRE, PROVIDE 120 VOLT CIRCUIT.
T	LINE VOLTAGE THERMOSTAT.
PC	PHOTOELECTRIC SENSOR.
LC	LIGHTING CONTACTOR.
OS	CEILING MOUNTED OCCUPANCY SENSOR.
OS	WALL MOUNTED OCCUPANCY SENSOR.
DS	CEILING MOUNTED DAYLIGHT SENSOR.
OP	OCCUPANCY SENSOR POWER PACK.

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL.
RAP	REMOTE ANNUNCIATOR PANEL.
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL.
ASSD	AIR SAMPLING SMOKE DETECTOR BASE UNIT.
15 FK	FIRE ALARM SPEAKER & SIGNAL LIGHT (80" AFF), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM SIGNAL LIGHT (80" AFF), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
FK	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S S/R	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
H S/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
FS	WATER FLOW SWITCH.
V	VALVE SUPERVISORY SWITCH.
W H	CEILING MOUNTED REMOTE TEST STATION AND ALARM INDICATOR LIGHT FOR DUCT DETECTOR. SUBSCRIPT "W" INDICATES WALL MOUNTED.
SD	SMOKE DAMPER.
FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
PS	PRESSURE SWITCH.
AM C/I	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
PIV	POST INDICATOR VALVE.
K	KNOX BOX.

LUMINAIRE SYMBOLS

A a	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.

GENERAL FLOOR PLAN NOTES

B E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
T2 1	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
3	LIGHTING CONTROL DETAIL NOTE. APPLIES TO THE LIGHTING CONTROL SEQUENCE OF OPTERATIONS SCHEDULE FOR ROOM CONTROL.
	LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
4"	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
4"	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
4"	CONDUIT TO BE REMOVED.
EX	EXISTING WIRE & CONDUIT TO REMAIN.
DAT	CONDUIT FOR DATA CIRCUITRY.
EM	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
FA	WIRE & CONDUIT FOR FIRE ALARM CIRCUITRY.
I	WIRE & CONDUIT FOR INTERCOM SYSTEM CIRCUITRY.
NC	WIRE & CONDUIT FOR NURSE CALL CIRCUITRY.
NL	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
PHO	CONDUIT FOR PHONE CIRCUITRY.
S	WIRE & CONDUIT FOR SOUND SYSTEM CIRCUITRY.
SEC	WIRE & CONDUIT FOR SECURITY SYSTEM CIRCUITRY.
TV	WIRE & CONDUIT FOR TELEVISION SYSTEM CIRCUITRY.
W	WIRE RUN IN SURFACE WIREWAY.
CM	CABLE MANAGEMENT SYSTEM PATHWAY.
X - 1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

GENERAL NOTES

a. GARAGE LIGHTING CONDUITS SHALL BE RUN TIGHT AGAINST THE UNDERSIDE OF THE SLAB / STRUCTURE.
b. ALL PANELS, EQUIPMENT AND LUMINAIRES SHALL BE GROUNDED PER N.E.C. REQUIREMENTS.
c. ALL RECEPTACLES SHALL BE GFCI TYPE.
d. ALL LUMINAIRES AND DEVICES IN THE PARKING GARAGE SHALL BE LISTED FOR WET LOCATIONS.
e. NO DEVICES IN THE DRIVE AISLE OR PARKING LOCATIONS SHALL BE LESS THAN 8'-4" AFF.
f. CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION PROVISIONS WITH GROUNDING CONTINUITY.
g. PROVIDE 20A-1 POLE SPARE BREAKERS IN ALL REMAINING SLOTS IN PANELBOARDS.
h. ALL STAIRWELL LUMINAIRES SHALL BE PLACED ON GENERATOR BACKED POWER.
i. ALL WALKWAY LUMINAIRES SHALL BE PLACED ON GENERATOR BACKED POWER.
j. ALL EXIT SIGNAGE SHALL BE PLACED ON GENERATOR BACKED POWER.
k. ANY OVERCURRENT DEVICE OR SWITCH PLACED IN AN EXISTING PANELBOARD OR SWITCHBOARD SHALL HAVE AN EQUAL OR HIGHER EQUIPMENT AIC VALUE THAN THE ORIGINAL EQUIPMENTS RATING.
l. REFER TO SPECIFICATION 26 05 05 AND 26 05 33 OF THE SPECIFICATIONS FOR SLEEVE REQUIREMENTS.
m. ALL DUKE ENERGY RACEWAYS, EQUIPMENT PADS AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSPECTED BY DUKE ENERGY PRIOR TO POURING CONCRETE.
n. BRANCH CIRCUIT WIRE SIZING (APPLIES TO ALL PHASE, NEUTRAL AND GROUND CONDUCTORS) TO BE UTILIZED AS A GUIDE FOR VOLTAGE DROP COMPENSATION. INCREASE CONDUIT SIZE PER WIRE SIZE.
20A-120V CIRCUITS
1. #12 WIRE - 75' LENGTH MAX
2. #10 WIRE - 125' LENGTH MAX
3. #8 WIRE - 190' MAX
20A-277V CIRCUITS
1. #12 WIRE - 173' LENGTH MAX
2. #10 WIRE - 288' LENGTH MAX
3. #8 WIRE - 443' LENGTH MAX

ABBREVIATIONS

AAP - AREA ALARM PANEL - MEDICAL GAS
ACC - ACCESS
ADJ - ADJUSTABLE
AF - ARC FAULT CIRCUIT INTERRUPTER
AFCI - ARC FAULT CIRCUIT INTERRUPTER
AFF - ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG - ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT - ALTERNATE
AP - ACCESS PANEL
APPROX - APPROXIMATE
ARCH - ARCHITECT OR ARCHITECTURAL
ASSY - ASSEMBLY
ATS - AUTOMATIC TRANSFER SWITCH

BLDG - BUILDING
BOE - BOTTOM OF EQUIPMENT
BOT - BOTTOM
BTWN - BETWEEN

CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT - CIRCUIT
CLG - CEILING
CMU - CONCRETE MASONRY UNIT
CONN - CONNECT OR CONNECTION
CONTR - CONTRACTOR
CORR - CORRIDOR
CTR - CENTER

D - DEPTH
DET - DETAIL
DIA - DIAMETER
DIM - DIMENSION
DIV - DIVISION
DN - DOWN
DWG - DRAWING

EA - EACH
EC - ELECTRICAL CONTRACTOR (DIVISION 26)
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATION OR ELEVATOR
EM - EMERGENCY
EQ - EQUAL
EQS - EQUIPMENT SUPPLIER
EQUIP - EQUIPMENT
ETR - EXISTING TO REMAIN
E - EXISTING
EXP - EXPANSION
EXT - EXTERIOR

FCE - FIRE CONTROL EQUIPMENT
FF - FINISHED FLOOR ELEVATION
FLR - FLOOR
FSC - FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT - FEET
FTG - FOOTING

GC - GENERAL CONTRACTOR
GF - GROUND FAULT CIRCUIT INTERRUPTER
GFCI - GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT - GROUND FAULT FEED THRU

HC - HVAC CONTRACTOR (DIVISION 23)
HP - HORSE POWER OR HIGH POINT
HVAC - HEATING, VENTILATING, AND AIR CONDITIONING

ID - INSIDE DIAMETER
IN - INCHES

KEC - KITCHEN EQUIPMENT CONTRACTOR

L - LENGTH
LBS - POUNDS

MAP - MASTER ALARM PANEL (MEDICAL GAS)
MAX - MAXIMUM
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN - MINIMUM OR MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING

NIC - NOT IN CONTRACT
NOM - NOMINAL
NTS - NOT TO SCALE

OD - OUTSIDE DIAMETER
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

PC - PLUMBING CONTRACTOR (DIVISION 22)
PLBG - PLUMBING

RAD - RADIUS
REC - RECESSED
REQD - REQUIRED
RI - ROUGH-IN

S - SURFACE MOUNTED
SC - SECURITY CONTRACTOR
SCH - SCHEDULE
SHT - SHEET
SMS - SECURITY MANAGEMENT SYSTEM
SPEC - SPECIFICATIONS
SQ - SQUARE
SS - STAINLESS STEEL
STD - STANDARD
STRUC - STRUCTURAL OR STRUCTURE
SUC - SITE UTILITY CONTRACTOR

TC - TECHNOLOGY CONTRACTOR
TEMP - TEMPERATURE
TOE - TOP OF EQUIPMENT
TYP - TYPICAL

UNO - UNLESS NOTED OTHERWISE

VFD - VARIABLE FREQUENCY DRIVE
VOL - VOLUME

W/ - WITH
W/O - WITHOUT
WP - WEATHERPROOF

ZVC - ZONE VALVE CABINET

SHEET LIST BP6 ELECTRICAL

Sheet Number	Sheet Name
E001.	LEGEND AND INDEX
E002.	SCHEDULES
E003.	PANELBOARDS
E004.	SINGLE-LINE DIAGRAMS
E005.	DETAILS
E200	ENTRANCE LEVEL LIGHTING PLAN
E201	PARK LEVEL LIGHTING PLAN
E202	RACE STREET STAIR LIGHTING PLAN
E300	LOWER LEVEL POWER PLAN LOT 23
E301	LOWER LEVEL POWER PLAN LOT 27
E302	PARK LEVEL POWER PLAN

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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MEP Design Technology Planning Commissioning Energy
Nationally Recognized Leader in Sustainability
1400 W Dorothy Lane, Dayton, OH 45409-1310
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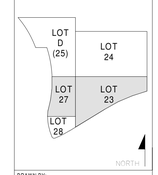
2/19/20
STATE OF OHIO
EVAN W. HATFIELD
E-75255
REGISTERED
PROFESSIONAL ENGINEER

ISSUES	
1	12/12/2019 BID PACKAGE #6 - DD PRICING
2	1/31/2020 BID PACKAGE #6 -SCOPING SET
3	2/21/2020 BID PACKAGE #6



DRAWN BY: JT
ENGINEER: JT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LEGEND AND INDEX

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
E001.

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LUMINAIRES

MARK	LAMPS QUANTITY FLUORESCENT	INCANDESCENT	H.I.D.	L.E.D.	WATTS / LAMP	VA / LINEAR FOOT	CATALOG NO.	DELIVERED LUMENS	COLOR	LOAD (VA)	FIXTURE VOLTAGE	MANUFACTURER	CATALOG NO.	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	DIFFUSING MEDIA	TRIM COLOR WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTE	MOUNTING S-SURFACE R-RECESSED SM-STEM MTD WM-WALL MTD C-CHAIN MTD UC-UNDER CAB CS-CEIL SURFACE PM - POLE MOUNT	SIZE DIAMETER	WIDTH	LENGTH	DEPTH	SEE NOTE
B1				1	4		LED	1572	RGBW	4	277	EOS	WP-24V-24-24-4SL-RGBW-SP-DIF-SC-XX-WC-DMX	WATERPROOF LED LIGHT PANEL	COOLEDGE, ACOYTLE	TEMPERED GLASS							CM		24"	24"	0.375"	1,2,4
HR1				1	5	5	LED	413	4000K	0	208	WAGNER	LULS-40K-60-70-TA-XX	UNDER RAIL STAINLESS STEEL LED LINEAR	INTENSE, KOLE	CLEAR ACRYLIC						•		S	1.5"				2,4,8
PL1				2	40		LED	2640	4000K	80	208	OSRAM	SERIES "PROPOINT SW WALL WASHER"	FLOOD LIGHT	BEGA, INSIGHT, HYDREL	ACRYLIC LENS						•	PM - 10' ROUND POLE		12"	17.125"	6"	2,4,6,9
PL2					104		LED	10611	4000K	70	208	LIGMAN LIGHTING	UQA-50011-104W LED-M-W40-07-120/277V-A53831-PC45-DIM	FLOOD LIGHT 37 DEGREE DISTRIBUTION	INSIGHT, BEGA, WE-EF	VISOR						•	PM-20' ROUND POLE	30"	12"	17.125"	""	2,4,6,7,10,11
PL3				1	42		LED	2286	4000K	60	208	LIGMAN LIGHTING	UABA-20002-60W-T3-W40-120/277	T3 DISTRIBUTION PEDESTRAIN POLE LIGHT	LOUIS POLSEN, BEGA, WE-EF	ACRYLIC LENS						•	PM - 10' ROUND POLE			18.1"	138.6 96"	2,4,5,6
PL5					104		LED	10611	4000K	70	208	LIGMAN LIGHTING	UQA-50011-104W LED-W-W40-07-120/277V-A53831-PC45-DIM	FLOOD LIGHT 51 DEGREE DISTRIBUTION	LOUIS POLSEN, INSIGHT	VISOR						•	PM-20' ROUND POLE		12"	17.125"	6"	2,4,5,6,10,11
S1				1	2		LED	43	4000K	2	208	BEGA	SERIES "22 230"	RECESSED STAIR LIGHT	LIGMAN, SPI	ACRYLIC LENS						•	R		8"	12"	4"	2,3,4

NOTES

1. SURFACE MOUNT FIXTURE COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY. PROVIDE ALL THE NECESSARY SUPPORTS/MEMBERS, FITTINGS AND ALL OTHER LABORS AND MATERIAL TO OBTAIN A COMPLETE INSTALLATION.
2. PROVIDE FIXTURE WITH DIMMABLE UNIVERSAL VOLTAGE BALLAST/DRIVER.
3. FIXTURE TO BE WET LISTED FOR EXTERIOR MOUNTING; PROVIDE ALL RECESSED BACK BOXES, WALL MOUNTING ACCESSORIES FASTENERS AND SUPPORTS FOR PROPER MOUNTING OF FIXTURE.
4. PROVIDE FIXTURE COMPLETE WITH LENS, FUSING, COLD WEATHER BALLAST/DRIVER.
5. PROVIDE CONCRETE BASE REFER TO DETAIL 7 ON SHEET E005 FOR ADDITIONAL INFORMATION.
6. EACH POLE SHALL BE SIZED TO ACCOMMODATE EPA OF COMPLETE LUMINAIRE/POLE ASSEMBLY FOR WIND VELOCITY OF 90 MPH AND GUSTING WIND EQUIVALENT OF 117 MPH. E.C. SHALL TOUCH UP ALL PAINT ON SITE AFTER INSTALLATION.
7. PROVIDE REMOTE EMERGENCY BATTERY BACK UP DRIVER FOR FIXTURE FOR 90 MINS OF LIGHT UPON LOSS OF POWER. OR PROVIDE EMERGENCY INVERTER BY DUAL-LITE OR APPROVED EQUAL. SIZE INVERTER PER LOAD.
8. COORDINATE WITH THE HAND RAIL MANUFACTURER AND ARCHITECT PRIOR TO ORDERING. PROVIDE ALL HARDWARE/ACCESSORIES, BRACKETS AND OTHER LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. PROVIDE LENGTH AS INDICATED ON DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REMOTE DRIVERS TO ELECTRICAL ROOMS, REFER TO FLOOR PLANS FOR LOCATION.
9. PROVIDE CONCRETE BASE REFER TO DETAIL 8 ON SHEET E005 FOR ADDITIONAL INFORMATION.
10. PROVIDE CONCRETE BASE REFER TO DETAIL 9 ON SHEET E005 FOR ADDITIONAL INFORMATION.
11. PROVIDE FIXTURE WITH OCCUPANCY SENSOR. IF OCCUPANCY SENSOR DOES NOT COME WITH FIXTURE, E.C SHALL PROVIDE A OCCUPANCY SENSOR EQUAL TO HUBBELL DIMMING WASP OR APPROVED EQUAL. OCCUPANCY SENSOR SHALL BE MOUNTED ON TO POLE.

MOTORS, STARTERS, DISCONNECTS & CONTROLS

NOTES:
1. COORDINATE EQUIPMENT LOCATION WITH PC.

MARK	MOTOR CHARACTERISTICS NAMEPLATE	HORSEPOWER (HP)	LOAD (kVA)	120V-1PH	208V-1PH	208V-3PH	240V-1PH	240V-3PH	277V-1PH	480V-1PH	480V-3PH	LOCATION ROOM NUMBER	ROOM NAME	STARTER NEMA SIZE	TYPE MANUAL	MAGNETIC	BUILT-IN MOTOR O.L.	2-SPEED	VFD	SEE NOTE	LOCATION NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISCONNECT MEANS TYPE DISC SWITCH	MANUAL STARTER	RECEPTACLE	FEEDER SW OR BREAKER	NEMA TYPE	DISC SIZE	FUSE SIZE	LOCATION NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	CONTROL INTERLOCK WITH MOTOR NO. BY E.C.	MANUAL AT STARTER	INTEGRAL WITH EQUIPMENT	FURNISHED BY	FEEDER SEE NOTE	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE NOTE
BP	BOOSTER PUMP	1/2	1.18	•													•									PC	•				3R	30		•					EC		•	PC		2	10	10	0.75"	1

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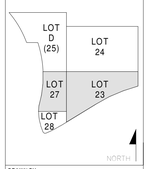
2/19/20
STATE OF OHIO
EVAN W. HATFIELD
E-75255
REGISTERED
PROFESSIONAL ENGINEER

ISSUES	
1	12/12/2019 BID PACKAGE #5 - DD PRICING
2	1/31/2020 BID PACKAGE #6 - SSOPPING SET
3	2/21/2020 BID PACKAGE #6



DRAWN BY: JT
ENGINEER: JT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: SCHEDULES

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER: E002.

EXISTING
DISTRIBUTION PANEL: SB-23

Location:
Supply From:
Voltage: 120/208 Wye-3PH-4W
Feeder Size: 4 SETS OF (5-600KCMIL, # 4/0 GND IN 4"C)

Mounting: FLOOR
Enclosure: 1

A.I.C. Rating: 35,000
Mains Type: MB
Mains Rating: 1600 A
Spec. Ref. #: 26 24 13

CKT	CIRCUIT DESCRIPTION	APPROX. CONNECTED LOAD	FRAME SIZE	POLES	TRIP SETTING	BREAKER TYPE	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE NOTE
1	MAIN	0.00 kVA	--	3	1600 A	---	--	---	--	---	--
2	400A C-S	115.00 kVA	400 A	3	400 A	LG	5	500	3	4"	1
3	400A C-S	115.00 kVA	400 A	3	400 A	LG	5	500	3	4"	1
4	400A C-S	115.00 kVA	400 A	3	400 A	LG	5	500	3	4"	1
5	200A C-S	57.00 kVA	200 A	3	200 A	QG	4	3/0	6	2.5"	
6	PBP	14.68 kVA	200 A	3	200 A	QG	4	3/0	6	2.5"	
7	TVSS	0.00 kVA	--	3	60 A	--	--	--	--	--	--
8	LOT 28 FUTURE	30.00 kVA	--	3	200 A	--	--	--	--	--	--
9	Spare	0.00 kVA	--	3	100 A	--	--	--	--	--	--
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	2406 VA	125.00%	3007 VA		
Motor	1176 VA	125.00%	1470 VA	**Total Conn. Load:**	446682 VA
Power	5760 VA	100.00%	5760 VA	**Total Est. Demand:**	447577 VA
Receptacle	5340 VA	100.00%	5340 VA	**Total Conn.:**	1240 A
Spare	30000 VA	100.00%	30000 VA	**Total Est. Demand:**	1242 A
THEATRICAL	402000 VA	100.00%	402000 VA		

NOTES: 1) 200% NEUTRAL REQUIRED FOR 400 AMP COMPANY SWITCH.

TOTAL CONNECTED		ESTIMATED DEMAND
446.68 kVA		438000

Panel: PBP

Location:
Supply From: SB-23
Voltage: 120/208 Wye-3PH-4W

Mounting: Surface
Enclosure: Type 1

A.I.C. Rating: 22,000
Mains Type: MB
Mains Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PL1 Receptacle	20 A	1	1000...	1000...					1	20 A	PL1 Receptacle	2
3	PL3 Receptacle	20 A	1			1200...	600 VA			1	20 A	PL1/PL3 Receptacle	4
5	PL3 Receptacle	20 A	1					1000...	150 VA	2	20 A	PL3	6
7	PL1/PL3	20 A	2	320 VA	150 VA					--	--	--	8
9	--	--	--			320 VA	180 VA			1	20 A	IRRIGATION	10
11	PL1	20 A	2					400 VA	360 VA	1	20 A	Blue Light	12
13	--	--	--	400 VA	180 VA					1	20 A	Blue Light	14
15	Power	20 A	1			180 VA	1000...			1	20 A	Security	16
17	Security	20 A	1					1000...	1180...	1	20 A	Security	18
19	Security	20 A	1	500 VA	1000...					1	20 A	Security	20
21	Lighting	20 A	2			215 VA	360 VA			1	20 A	Blue Light	22
23	--	--	--					215 VA	0 VA	1	20 A	Spare	24
25	BP1 Irrigation	20 A	1	1176...	0 VA					1	20 A	Spare	26
27	Lighting	20 A	2			13 VA	0 VA			1	20 A	Spare	28
29	--	--	--					13 VA	0 VA	1	20 A	Spare	30
31	IRRIGATION	20 A	1	180 VA	180 VA					1	20 A	Blue Light	32
33	Spare	20 A	1			0 VA	105 VA			2	20 A	PL2/PL5	34
35	Spare	20 A	1					0 VA	105 VA	--	--	--	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Space	--	--	0 VA	0 VA					1	20 A	Spare	44
45	Space	--	--			0 VA	0 VA			1	20 A	Spare	46
47	Space	--	--					0 VA	0 VA	1	20 A	Spare	48
49	Space	--	--	0 VA	0 VA					3	30 A	TVSS	50
51	Space	--	--			0 VA	0 VA			--	--	--	52
53	Space	--	--					0 VA	0 VA	--	--	--	54
		Total Load:		6.09 kVA		4.17 kVA		4.42 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	2406 VA	125.00%	3007 VA		
Motor	1176 VA	125.00%	1470 VA	**Total Conn. Load:**	14682 VA
Power	5760 VA	100.00%	5760 VA	**Total Est. Demand:**	15577 VA
Receptacle	5340 VA	100.00%	5340 VA	**Total Conn.:**	41 A
				Total Est. Demand:	43 A

Notes:

TOTAL CONNECTED		ESTIMATED DEMAND
14.68 kVA		15.58 kVA (43 A)

EXISTING
Panel: EL-23

Location:
Supply From: EL-24
Voltage: 480/277 Wye-3PH-4W

Mounting: Surface
Enclosure: Type 1

A.I.C. Rating: 10,000
Mains Type: MB
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXITS LOT 23	20 A	1	34 VA	29 VA					1	20 A	LL LOT 23	2
3	POD LOT 23	20 A	1			112 VA	3054...			1	20 A	ENTRANCE	4
5	LL LOT 23	20 A	1					58 VA	348 VA	1	20 A	LL LOT 23	6
7	LL LOT 23	20 A	1	1042...	902 VA					1	20 A	LL LOT 23	8
9	LL LOT 23	20 A	1			984 VA	28 VA			1	20 A	Lighting	10
11	LOT 27 EXIT	20 A	1					42 VA	110 VA	1	20 A	ENTRANCE AREA	12
13	LL LOT 27	20 A	1	662 VA	638 VA					1	20 A	LL LOT 27	14
15	LL LOT 27	20 A	1			1148...	756 VA			1	20 A	ENTRANCE	16
17	LOT 27 STAIRS	20 A	1					216 VA					18
19	LOT 23 ELEC ROOM	20 A	1	400 VA	0 VA					1	20 A	Spare	20
21	EXIT LOT 23	20 A	1			5 VA	0 VA			1	20 A	Spare	22
23	Space	--	--					0 VA	0 VA	1	20 A	Spare	24
25	Space	--	--	0 VA	0 VA					1	20 A	Spare	26
27	Space	--	--			0 VA	0 VA			1	20 A	Spare	28
29	Space	--	--					0 VA	0 VA	1	20 A	Spare	30
		Total Load:		3.71 kVA		6.09 kVA		0.77 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	10567 VA	125.00%	13209 VA		
				Total Conn. Load:	10567 VA
				Total Est. Demand:	13209 VA
				Total Conn.:	13 A
				Total Est. Demand:	16 A

Notes: 1) DRIVE ENTRANCE CIRCUIT #16 SHALL BE PROGRAMMED TO TURN OFF AT SUNSET.

TOTAL CONNECTED		ESTIMATED DEMAND
10.57 kVA		13.21 kVA (16 A)

EXISTING
Panel: EL-24

Location:
Supply From: DPG
Voltage: 480/277 Wye-3PH-4W

Mounting: Surface
Enclosure: Type 1

A.I.C. Rating: 10,000
Mains Type: MB
Mains Rating: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Space	--	--	0 VA	151 VA					1	20 A	Lighting	2
3	EX LOT 24 L	20 A	1			928 VA	0 VA			--	--	Space	4
5	EX LOT 24 L	20 A	1					50 VA	50 VA	1	20 A	EX LOT 24 L	6
7	SPARE	20 A	1	0 VA	52 VA					1	20 A	EX LOT 24 L	8
9	EX LOT 24 L	20 A	1			116 VA	36 VA			1	20 A	EX LOT 24 L	10
11	SPARE	20 A	1					0 VA	5 VA	1	20 A	EX LOT 24 L	12
13	EX LOT 24 L	20 A	1	68 VA	384 VA					1	20 A	EX LOT 24 L	14
15	EX LOT 24 L	20 A	1			870 VA	870 VA			1	20 A	EX LOT 24 L	16
17	EX LOT 24 L	20 A	1					870 VA	10 VA	1	20 A	EX LOT 24 L	18
19	EX LOT 24 L	20 A	1	73 VA	73 VA					1	20 A	EX LOT 24 L	20
21	EX LOT 24 L	20 A	1			1394...	2214...			1	20 A	EX LOT 24 L	22
23	EX LOT 24 L	20 A	1					656 VA	984 VA	1	20 A	EX LOT 24 L	24
25	EX LOT 24 L	20 A	1	1640...	206 VA					1	20 A	EX LOT 24 L	26
27	EX LOT 24 L	20 A	1			432 VA	3706...			3	60 A	EL-23	28
29	EX LOT 24 L	20 A	1					70 VA	6087...	--	--	--	30
31	Spare	20 A	1	0 VA	774 VA					--	--	--	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		3.42 kVA		10.57 kVA		8.78 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	10718 VA	125.00%	13397 VA		
Spare	12051 VA	100.00%	12051 VA	**Total Conn. Load:**	22769 VA
				Total Est. Demand:	25448 VA
				Total Conn.:	27 A
				Total Est. Demand:	31 A

Notes: 1. EXISTING PANELBOARD LOCATED AT LOT 24.
2. NEW BREAKERS ADDED MUST MATCH THE AIC RATING OF EXISTING PANELBOARD.

TOTAL CONNECTED		ESTIMATED DEMAND
22.77 kVA		25.45 kVA (31 A)

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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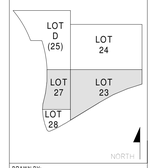
1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-324-5777 www.heapy.com

2/19/20
STATE OF OHIO
EVAN W. HATFIELD
E-75255
REGISTERED
PROFESSIONAL ENGINEER

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	1/31/2020	BID PACKAGE #8 - SCOPING SET
3	2/21/2020	BID PACKAGE #8



DRAWN BY: JT
ENGINEER: JT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PANELBOARDS

JOB NUMBER 2019-07018 02/21/2020

DRAWING NUMBER
E003.

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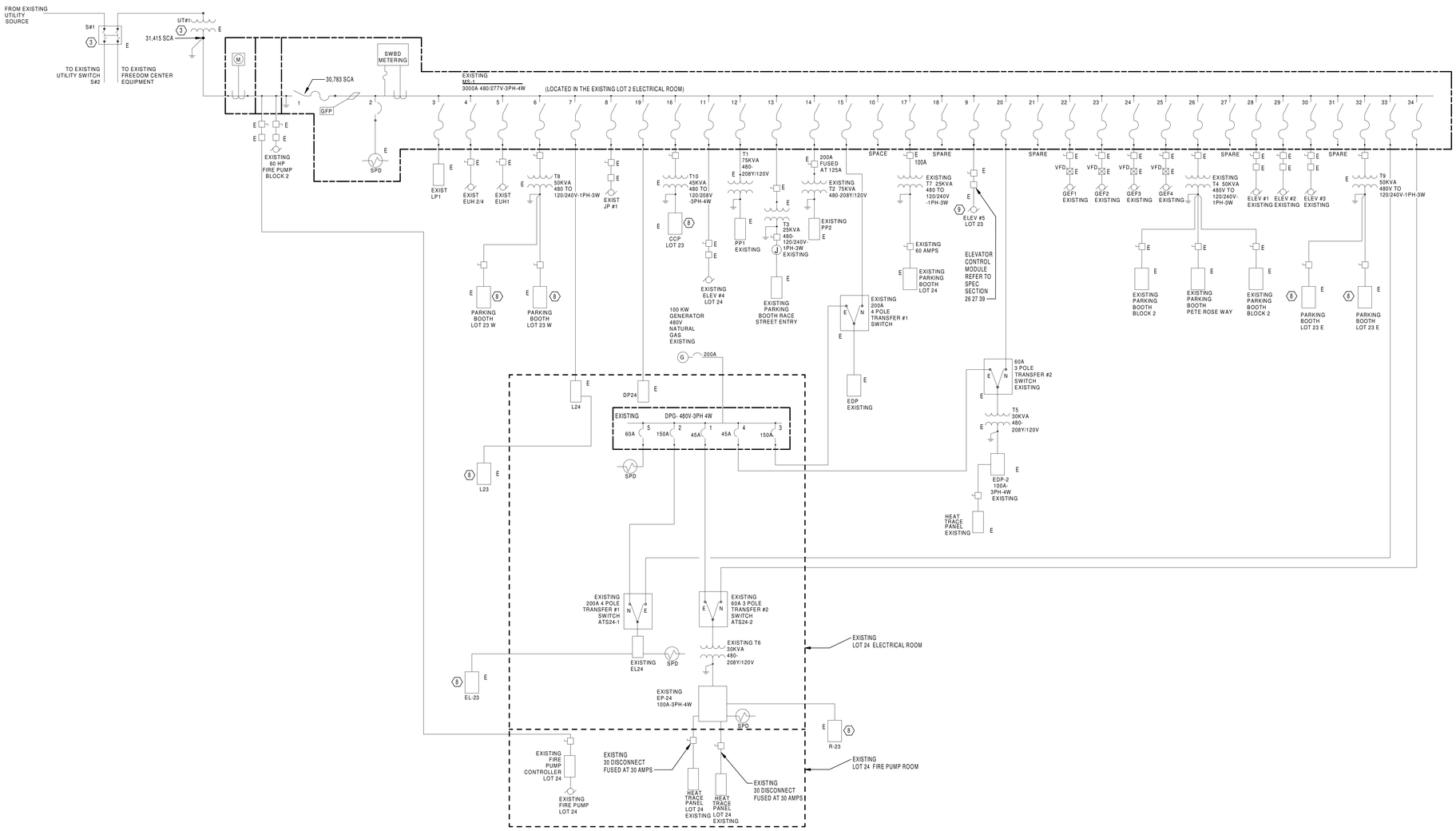
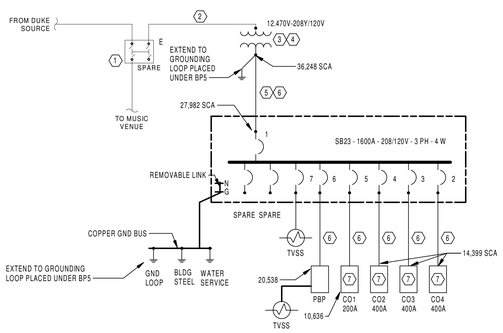


EXISTING SINGLE-LINE DISTRIBUTION DIAGRAM

NOT TO SCALE



NEW WORK SINGLE-LINE DISTRIBUTION DIAGRAM

NOT TO SCALE

NOTES

1. EXISTING SWITCH INSTALLED UNDER MUSIC VENUE CONSTRUCTION.
2. EXISTING CONCRETE ENCASED PRIMARY RACEWAY INSTALLED UNDER BP#5 OF THE BANKS GARAGE PROJECT.
3. NEW DUKE PROVIDED TRANSFORMER PROVIDED UNDER THIS BP#6 PROJECT.
4. CLOSELY COORDINATE ALL GROUNDING AND CONDUIT STUB-UP EXTENSONS INTO THE TRANSFORMER WITH DUKE ENERGY PRIOR TO ANY WORK. ALL WORK SHALL BE INSPECTED BY DUKE ENERGY DURING ROUGH-IN OF CONDUIT RACEWAYS.
5. EXISTING SECONDARY CONCRETE ENCLOSED RACEWAY INSTALLED UNDER BP#5 OF THIS PROJECT. CONTRACTOR TO PROVIDE AND TERMINATE ALL SECONDARY CONDUCTORS. EXTEND RACEWAYS AS REQUIRED TO STUB-UP IN SWITCHBOARD.
6. REFER TO PANEL SCHEDULE FOR CONDUIT AND CABLE SIZE.
7. COMPANY SWITCH, REFER TO SPECIFICATION SECTION 26 28 16 FOR EQUIPMENT REQUIREMENTS.
8. EXISTING PANELBOARD INSTALLED UNDER BP#5.
9. EXISTING ELEVATOR INSTALLED UNDER BP#5.

ELECTRICAL SINGLE-LINE LEGEND

	CONDUIT & WIRE
	CONDUIT & WIRE TO BE REMOVED
	EXISTING CONDUIT & WIRE TO REMAIN
	INTEGRATED EQUIPMENT ENCLOSURE
	SWITCHBOARD ENCLOSURE
	BUSSING
N V E	AUTOMATIC TRANSFER SWITCH
E N	AUTOMATIC TRANSFER SWITCH - BYPASS
	BUS DUCT
N — REMOVABLE G — BUS LINK	BUS LINK
	CIRCUIT BREAKER - MEDIUM VOLTAGE DRAWOUT
	DELTA SYMBOL
	DISCONNECT
	DRAWOUT CONNECTION
M	ELECTRIC METER
A	EQUIPMENT AMMETER
	EQUIPMENT CAPACITOR
	EQUIPMENT CONTACTOR
	EQUIPMENT CURRENT TRANSFORMER
	EQUIPMENT GROUND
	EQUIPMENT LIGHTNING ARRESTOR
M	EQUIPMENT MULTIMETER
	EQUIPMENT POTENTIAL TRANSFORMER
SWBD METERING	EQUIPMENT SWITCHBOARD METER
V	EQUIPMENT VOLTMETER
	EQUIPMENT WYE SIDE OF TRANSFORMER WITH GROUND
	FUSED CUTOUT
	FUSED SWITCH - PRIMARY
	FUSED SWITCH - SECONDARY
G	GENERATOR
GFP	GROUND FAULT PROTECTOR
K	KEYED INTERLOCK
	MOTOR
	MOTOR STARTER
	MOTOR STARTER AND DISCONNECT
	PANELBOARD - MAIN LUG ONLY
	PANELBOARD - DOUBLE SET OF LUGS
	PANELBOARD - MAIN BREAKER
	PANELBOARD BREAKER
	SHORT CIRCUIT FAULT LOCATION
	SINGLE POLE SWITCH
	SURGE PROTECTIVE DEVICE
	TAP SWITCH WITH GROUND POSITION
	TRANSFORMER
	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
▲	VOLTAGE TERMINATION - PRIMARY
● OR •	VOLTAGE TERMINATION - SECONDARY

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2/19/20
STATE OF OHIO
EVAN W. HATFIELD
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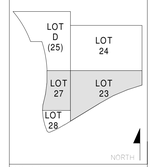
REGISTERED
PROFESSIONAL ENGINEER

ISSUES		
1	12/12/2019	BID PACKAGE #5 - DD PRICING
2	1/31/2020	BID PACKAGE #5 -SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: JT
ENGINEER: JT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SINGLE-LINE DIAGRAMS

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER
E004.

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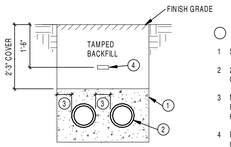


DETAIL NOTES

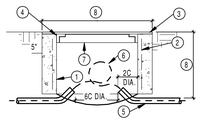
1 SAND/DIRT

2 2" I.D. DUCTS, SCHEDULE 40 PVC. UNLESS NOTED OTHERWISE.

3 MIN. 3" SPACING BETWEEN CONDUITS AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.

4 RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

1 UNDERGROUND DUCTS
SCALE: NONE



DETAIL NOTES

1 5" CONCRETE WALLS, FOUR SIDES.

2 1/2" DIA. REINFORCED STEEL-10"CC BOTH WAYS.

3 1/4" CHECKERED STEEL PLATE COVER.

4 2"X2"X1/4" L WELDED TO PLATE. TWO SIDES ONLY 1/4" CLEARANCE FIT.

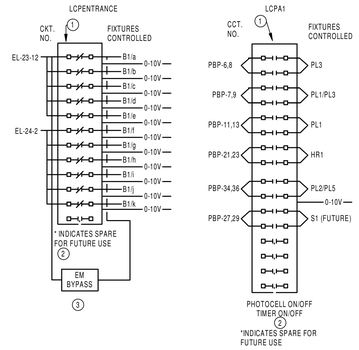
5 UNDERGROUND DUCT-TURN UP @ 45 DEG.

6 CONDUCTORS-LOOP/PULL OR SPLICE.

7 CROSSWISE FOR SUPPORT.

8 SIZE PULL BOX PER NEC.

2 GROUND PULLBOX
SCALE: NONE



DETAIL NOTES

1. RELAYS REPRESENT THE LIGHTING AUTOMATION SYSTEM FOR BUILDING LIGHTING CONTROLS BY LUTRON. ALL CIRCUITS INDICATED SHALL BE RUN THRU THESE CONTROLS; PROVIDE ALL LABOR, RELAYS, CONTACTS MATERIAL, AND TECHNICIANS PROGRAMMING TIME TO ACCOMMODATE THIS INSTALLATION. PROVIDE QUANTITY OF RELAY AS INDICATED.

2. COORDINATE PROGRAMMING (TIME ON/OFF) OF ALL CIRCUITS WITH OWNER AND ASHRAE REQUIREMENTS AND PROVIDE ACCORDINGLY.

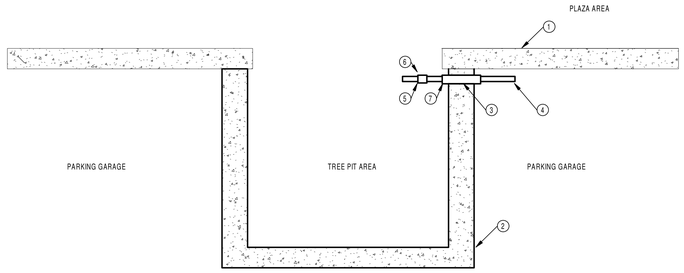
3 E.C. SHALL PROVIDE EM BY PASS DEVICE FOR EACH EMERGENCY CIRCUIT RUNNING THROUGH AUTOMATIC CONTROLS.

GENERAL NOTES

A. LEAVE SLACK IN ALL CONDUCTORS SUCH THAT THEY MAY BE MOVED FROM ONE CONTRACTOR TO THE OTHER.

B. INTENT IS FOR LIGHTING TO BE AUTOMATICALLY CONTROLLED BY PHOTO CELL ON/OFF AND TIME OF DAY AND SCHEDULE PER THIS LIGHTING CONTROL SYSTEM. COORDINATE TIME OF DAY AND EXACT SCHEDULE WITH OWNER AND PROGRAM SYSTEM ACCORDINGLY.

3 AUTOMATIC LIGHTING CONTROLS
SCALE: NONE



DETAIL NOTES

1 CONCRETE STRUCTURAL SLAB

2 CONCRETE TREE PIT.

3 SLEEVE FOR CONDUIT LOCATED HIGH AT STRUCTURAL SLAB. REFER TO PLANS FOR SIZES AND QUANTITIES. IN AREAS OF MULTIPLE SLEEVES, THE SLEEVES SHALL BE PLACED NO CLOSER THAN 6" APART TO ALLOW FOR WATERPROOFING MATERIAL INSTALLATION.

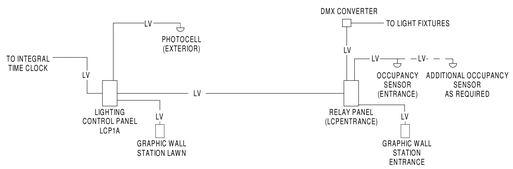
4 RIGID METAL CONDUIT, REFER TO PLANS AND SPECIFICATIONS FOR SIZES.

5 TRANSITION FROM RIGID METAL CONDUIT TO PVC CONDUITS IN TREE PIT AREAS.

6 THREADED COUPLING.

7 PROVIDE WATERTIGHT SEAL BETWEEN SLEEVE AND CONDUIT RACEWAY.

4 SLEEVE DETAIL FOR TREE PITS
SCALE: NONE



GENERAL NOTES

A CONTROL INTENT FOR EXTERIOR IS FOR LIGHTING CONTROL PANEL TO SWEEP LIGHTS "ON" AND "OFF" WITH PHOTOCELL FOR POLES PL1'S AND PL3'S . THEY SHALL STAY ON ALL NIGHT FOR SECURITY PURPOSES.

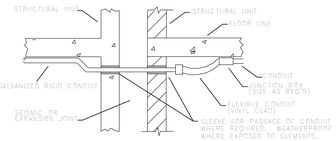
B CONTROL INTENT FOR EXTERIOR IS FOR LIGHTING CONTROL PANEL TO SWEEP LIGHTS "ON" WITH PHOTOCELL FOR POLES PL2'S/PL5, DIM TO 50% WITH TIME OF DAY FROM MIDNIGHT TO 6AM, TURN BACK ON TO FULL BRIGHTNESS AT 6AM AND SWEEP OFF WITH PHOTOCELL.

C CONTROL INTENT FOR INTERIOR (ENTRANCE) IS FOR LIGHTING CONTROL PANEL TO SWEEP LIGHTS DOWN TO 50% AT 7PM AND "ON" 100% AT 5AM, SET TIME OF DAY SCHEDULE. ALL ENTRANCE CORRIDOR CIRCUITS THAT ARE TURNED DOWN TO 50% SHALL BE OVERRIDDEN "ON" AFTER-HOURS VIA LOCAL OCCUPANCY SENSORS.

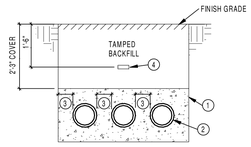
D ALL ENTRANCE CORRIDORS SHALL HAVE OCCUPANCY SENSORS LOCATED THROUGHOUT TO PROVIDE FULL COVERAGE OF THE SPACE. THE OCCUPANCY SENSORS IN THE ENTRANCE CORRIDORS SHALL ONLY CONTROL LIGHTING AFTER-HOURS

E THE TIME-OF-DAY SIGNAL SHALL ORIGINATE FROM AN INTERNAL TIME-CLOCK THROUGH A LOW-VOLTAGE CONNECTION.

5 LIGHTING CONTROL PANEL SINGLE LINE
SCALE: NONE



6 EXPANSION JOINT BP6
SCALE: NONE



DETAIL NOTES

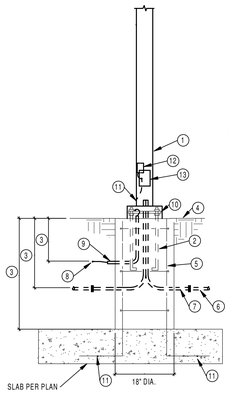
1 SAND/DIRT

2 2" I.D. DUCTS, SCHEDULE 40 PVC. UNLESS INDICATED OTHER WISE.

3 MIN. 3" SPACING BETWEEN CONDUITS AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.

4 RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

10 UNDERGROUND DUCTS - 3
SCALE: NONE



DETAIL NOTES

1 SEE FIXTURE SCHEDULE FOR POLE AND FIXTURE ASSEMBLY.

2 ANCHOR BOLTS BY E.C., WELD TO REBARS. REFER TO STRUCTURAL DRAWINGS FOR ANCHOR BOLTS INFORMATION.

3 COORINATE WITH ARCHITECT.

4 FINISH GRADE, COMPACT TO 95%.

5 SIX #4 REINFORCING BARS VERTICALLY ON #3 STIRRUPS AT 18" O.C.

6 PVC CONDUIT, SCHEDULE 40.

7 RIGID GALVANIZED STEEL CONDUIT.

8 EXTEND TO THE BUILDING GROUNDING LOOP PROVIDED UNDER BID PACK #5 WITH #2/0 WIRE.

9 1/2" PVC GROUND CONDUCTOR SLEEVE WITH #8 GROUND CONDUCTOR.

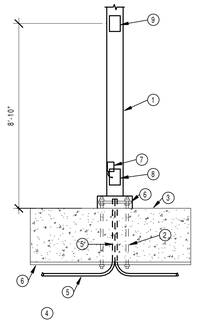
10 BASE PLATE, LEVELING NUTS, BASE GROUT.

11 TIE TO SLAB REBAR. COORDINATE WITH STRUCTURAL.

12 LIGHTNING ARRESTOR.

13 HANDHOLE.

9 TYPE PL2/PL5 POLE BASE
SCALE: NONE



DETAIL NOTES

1 SEE FIXTURE SCHEDULE FOR POLE AND FIXTURE ASSEMBLY.

2 ANCHOR BOLTS BY E.C., WELD TO REBARS. REFER TO STRUCTURAL DRAWINGS FOR ANCHOR BOLTS INFORMATION.

3 CONCRETE SLAB.

4 EXISTING PARKING GARAGE

5 RIGID GALVANIZED STEEL CONDUIT.

6 EXISTING PARKING GARAGE CEILING.

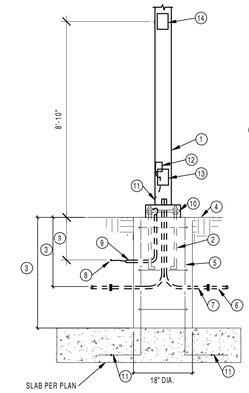
7 LIGHTNING ARRESTOR. EXTEND TO THE BUILDING GROUNDING LOOP PROVIDED UNDER BID PACK #5 WITH #2/0 WIRE.

8 HANDHOLE.

9 PROVIDE WEATHERPROOF DUPLEX RECEPTACLE WITH TAYMAC OR EQUAL BY HUBBEL OR LEVITION COVERPLATE DIRECTLY ABOVE HANDHOLE FOR ALL LOCATIONS AS INDICATED ON PLAN. REFER TO LEGEND FOR ADDITIONAL REQUIREMENTS. PROVIDE BRANCH CIRCUITRY AS INDICATED ON PLANS.

8 TYPE PL1 POLE BASE
SCALE: NONE

GENERAL NOTE:
REFER TO POLE BASES WITH STRUCTURAL DRAWING SHEET S002 AND PROVIDE ACCORDINGLY. AVOID CUTTING PRETENSION STRANDS AND REBAR. THIS DETAIL IS FOR SCHEMATIC IN NATURE AND DOES NOT INCLUDE ALL P IECES AND ACCESSORIES FOR A COMPLETE SYSTEM. THIS SCHEMATIC IS MEANT TO SHOW INTENT AND SHALL NOT BE USED FOR A BOM. E.C. IS RESPONSIBLE TO COORDINATE AND PROVIDE ALL COMPONENTS TO MEET THE INTENT OF THIS SCHEMATIC AND FOR A COMPLETE AND OPERATIONAL INSTALLATION.



DETAIL NOTES

1 SEE FIXTURE SCHEDULE FOR POLE AND FIXTURE ASSEMBLY.

2 ANCHOR BOLTS BY E.C., WELD TO REBARS. REFER TO STRUCTURAL DRAWINGS FOR ANCHOR BOLTS INFORMATION.

3 COORDINATE WITH ARCHITECT.

4 FINISH GRADE, COMPACT TO 95%.

5 SIX #4 REINFORCING BARS VERTICALLY ON #3 STIRRUPS AT 18" O.C.

6 PVC CONDUIT, SCHEDULE 40.

7 RIGID GALVANIZED STEEL CONDUIT.

8 GROUND ROD. EXTEND TO THE BUILDING GROUNDING LOOP PROVIDED UNDER BID PACK 5, WITH #2/0 WIRE.

9 1/2" PVC GROUND CONDUCTOR SLEEVE WITH #8 GROUND CONDUCTOR.

10 BASE PLATE, LEVELING NUTS, BASE GROUT.

11 TIE TO SLAB REBAR. COORDINATE WITH STRUCTURAL.

12 LIGHTNING ARRESTOR.

13 HANDHOLE.

14 GROUND FAULT WEATHER PROOF DUPLEX RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

7 TYPE PL3 POLE BASE
SCALE: NONE

LIGHTING CONTROL SEQUENCE OF OPERATIONS

NOTES:
1. LIGHTS TO BE CONTROLLED THRU PHOTOCELL ON/OFF. LIGHTS WILL STAY ON FULL BRIGHTNESS FOR SAFETY AND SECURITY PURPOSE.
2. TURN "ON" AT DUSK. DIM TO 50% FROM 12AM TO 6AM. TURN "ON" FULL BRIGHTNESS AT 6AM. TURN "OFF" AT DAWN.

		OCCUPANCY SENSOR				TIME CLOCK					WALL SWITCH					DAYLIGHT SENSOR				INTEGRATION POINTS					
CONTROL NUMBER	TYPICAL SPACE NAME	VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIME OUT PERIOD (IN MINUTES)	HIGH / LOW OPERATION: OCCUPIED: 100% / VACANT: 30%	SCHEDULED ON AT	SCHEDULED OFF AT	OCCUPIED TIME START	UNOCCUPIED TIME START	AFTER HOURS OVERRIDE SWITCH (2 HOURS)	ON / OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	INDOOR - ON / OFF ONLY	INDOOR - DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOTCANDLES @ 2'-6" A.F.F.)	EXTERIOR PHOTOCELL - ON / OFF	OCCUPANCY STATUS (BINARY INPUT - READ ONLY - OCCUPIED / UNOCCUPIED)	DIMMING OUTPUT LEVEL (ANALOG VALUE - READ / WRITE - 0-100%)	RELAY STATUS (BINARY VALUE - READ / WRITE - ON / OFF)	MEASURED LIGHT LEVEL (ANALOG INPUT - 0-212FC)	SEE NOTE	DETAIL NUMBER
1	ENTRANCE		•	60 MINS		6AM	9PM			•					•										3, 5
2	EXTERIOR LIGHTING					DUSK	DAWN												•					1	3, 5
3	EXTERIOR WITH DIMMING					BY PHOTOCELL	12AM												•					2	3, 5

GENERAL NOTES:
E.C. SHALL INCLUDE ALL PROGRAMMING, TECHNICIANS TIME, FACTORY ASSISTANCE, ETC FOR PROGRAMMING AND SET UP OF THIS SYSTEM. DETAIL IS SCHEMATIC IN NATURE AND DOES NOT INCLUDE ALL PIECES AND ACCESSORIES FOR A COMPLETE SYSTEM. THIS SCHEMATIC IS MEANT TO SHOW INTENT AND SHALL NOT BE USED FOR A BOM. E.C. IS RESPONSIBLE TO COORDINATE AND PROVIDE ALL SYSTEM COMPONENTS TO MEET THE INTENT OF THIS SCHEMATIC AND FOR A COMPLETE AND OPERATIONAL INSTALLATION.

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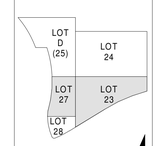
ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	1/31/2020	BID PACKAGE #6 -SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: JR
ENGINEER: JR
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: DETAILS

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER: E005.

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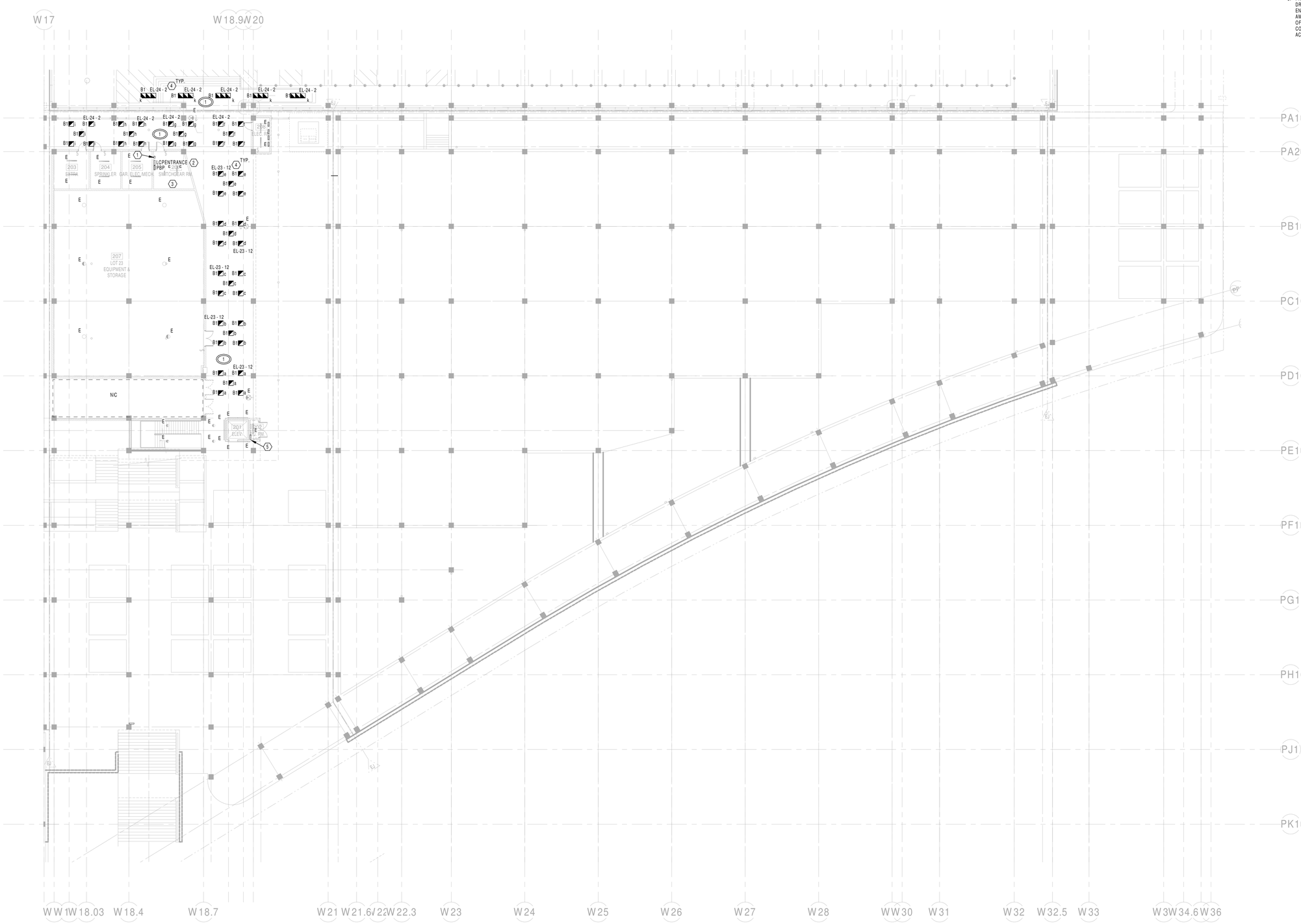

1 **PARK LEVEL LIGHTING PLAN (LOT 23)**

SCALE: 1/16" = 1'-0"

0 8 16 32 48

NOTES

1. PROVIDE NLIGHT OR APPROVED EQUAL, DIGITAL TOUCH SCREEN CONTROLLER FOR CONTROL OF ZONES a THRU k AS INDICATED IN THE PARKS ENTRANCE. PROVIDE SCENES AND PROGRAMMING AS COORDINATED WITH ENGINEER AND OWNER. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.

   TOUCH SCREEN SHALL CONTROL THE FOLLOWING ZONES: ZONE a=B1 FIXTURES THUR ZONE k= B1 FIXTURES.

2. COORDINATE RELAY PANEL WITH ARCHITECT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.

3. MOUNT REMOTE DRIVERS FOR HAND RAIL LIGHTS IN THIS ROOM. REFER TO NOTE 1 ON SHEET E202 FOR ADDITIONAL INFORMATION.

4. WIRE FIXURE ON THIS CIRCUIT THROUGH LIGHTING CONTORLS PER DETAILS ON SHEET E005. FIXTURES TO BE CONTROLLED THROUGH AUTOMATED LIGHTING CONTROL SYSTEM.

5. PROVIDE A STAINLESS STEEL ENCLOSURER FOR REMOTE DRIVERS OF THE HANDRAIL FIXTURE BELOW IN STORAGE ROOM. ENCLOSURER/DRIVERS SHALL BE PLACED BETWEEN 60' TO 120' AWAY FROM HANDRAIL. COORDINATE EXACT LOCATION OF REMOTE DRIVERS WITH OWNER/ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

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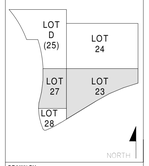
ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	1/31/2020	BID PACKAGE #6 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: JNR
ENGINEER: JNR
CHECKED BY: EWH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
ENTRANCE LEVEL LIGHTING PLAN

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
E200

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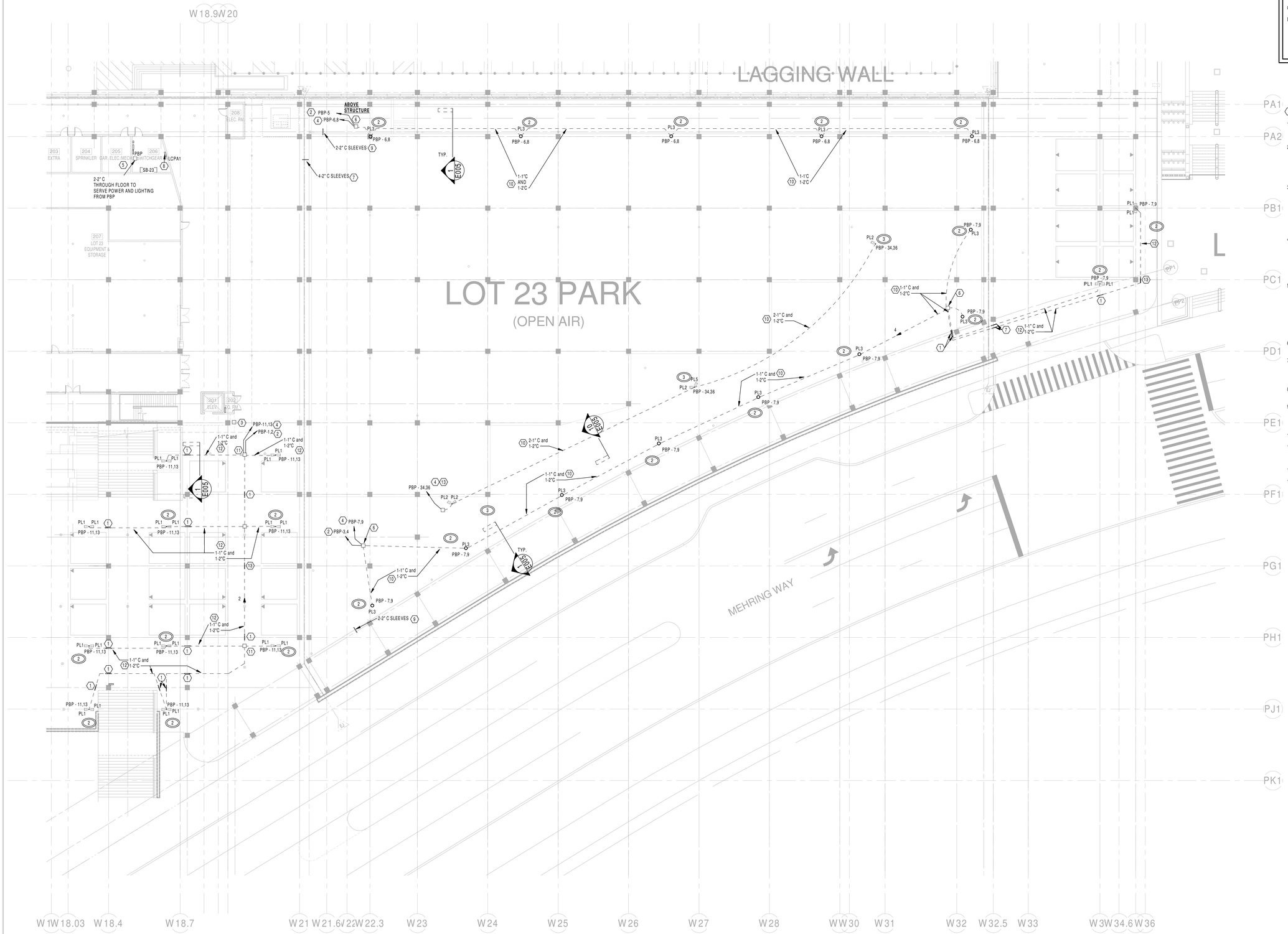

1 PARK LEVEL LIGHTING PLAN

SCALE: 1/16" = 1'-0"

0 8 16 32 48

GENERAL NOTES

A. PROVIDE ALL CONDUITS WITH PULLWIRE; ALL CONDUITS SHALL BE 2" UNLESS INDICATED OTHERWISE. CONTRACTORS SHALL UTILIZE COMMON PATHWAYS WHERE EVER FEASIBLE.

B. E.C. IS RESPONSIBLE FOR ALL CUTTING, PATCHING, AND RESURFACING OF ANY/ALL HARD SURFACES DISTURBED TO FACILITATE THIS WORK.

C. ALL RECEPTACLES SHALL HAVE GFCI PROTECTION.

D. THE LAWN WILL BE ILLUMINATED UTILIZING A THREE POLE LAYOUT. LOCATIONS AS INDICATED ON PLAN. THIS PROJECT SHALL INCLUDE AIMING THE PL2'S AND PL5 FIXTURES AT NIGHT WITH THE ENGINEER IN ATTENDANCE. ALL MATERIALS REQUIRED TO AIM INCLUDES BUCKET TRUCK AND PERSONAL ARE REQUIRED TO BE PROVIDED. THE BID SHALL INCLUDE (2)-4 HOUR NIGHT BUCKET TRUCK RENTAL WITH OPERATOR.

NOTES

1. PROVIDE 1-1" & 1-2" SLEEVES COORDINATE EXACT LOCATION WITH STRUCTURAL/ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.
2. PROVIDE RUN 20A, 120V RECEPTACLE CIRCUIT(S) WITH 2-#8, 1-#8 GRD. IN COMMON 2" CONDUIT WITH LIGHTING CIRCUIT TO EXTERIOR LIGHTING PULLBOX (NOTE 5, THIS SHEET). TRANSITION TO #12 IN RECEPTACLE BOX TO TERMINATE RECEPTACLE. EXTEND FROM PULLBOX TO PANEL 'PBP' LOCATED IN ELECTRICAL ROOM.
3. FUTURE PERGOLA BY OTHERS. PROVIDE SURFACE MOUNT PULLBOX FOR FUTURE PERGOLA. PROVIDE 1-2" AND 1-1" CONDUIT BACK TO ELECTRICAL ROOM FROM THIS PULLBOX WITH PULL STRING. COORDINATE EXACT LOCATION OF PULLBOX WITH ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY. STUB 1-2" AND 1-1" CONDUIT UP TO CONCRETE DECK AND CAP FOR FUTURE LIGHTING ON PERGOLA.
4. PROVIDE RUN 20A, 208V-1PH LIGHTING CIRCUITS WITH 2-#8, 1-#8 GRD. IN COMMON 2" CONDUIT WITH RECEPTACLE CIRCUIT TO EXTERIOR LIGHTING PULLBOX (NOTE 5, THIS SHEET). EXTEND BRANCH CIRCUITRY FROM PULLBOX TO NEW PANEL 'PBP' LOCATED IN ELECTRICAL SERVICE ROOM. RUN LIGHTING BRANCH CIRCUIT THRU EXTERIOR LIGHTING CONTROLS PER DETAIL 3, ON SHEET E005.
5. SURFACE MOUNT PULLBOX UNDER LEVEL 501. PULLBOX CONTAINING ALL EXTERIOR LIGHTING (AND RECEPTACLE) BRANCH CIRCUITS/CONDUITS; EXTEND/STUB UP 2-2" CONDUITS FROM THIS PULLBOX TO ELECTRICAL ROOM TO SERVE EXTERIOR LIGHTING AND EXTERIOR RECEPTACLE CIRCUITS. STUB SHALL BE 4" ABOVE FINISH FLOOR. PROVIDE DIVIDER PLATE INSIDE PULLBOX TO SEGREGATE THE LIGHTING AND RECEPTACLE CIRCUITS AND PROVIDE LABEL ON WIRING TO INDICATE BRANCH CIRCUITS.
6. FLUSH GRADE PULLBOX ENCLOSURE WITH GASKETED COVER WITH APPROPRIATE LOGO, PER DETAIL #2, SHEET E005.
7. PROVIDE 1-1" & 1-2" SLEEVES COORDINATE EXACT LOCATION WITH STRUCTURAL/ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY. REFER TO DETAIL 6 ON SHEET E005 FOR ADDITIONAL INFORMATION.
8. AUTOMATIC LIGHTING CONTROLS. REFER TO SHEET E005 FOR ADDITIONAL INFORMATION.
9. PROVIDE SLEEVES COORDINATE EXACT LOCATION WITH STRUCTURAL/ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY. REFER TO DETAIL 4 ON SHEET E005 FOR ADDITIONAL INFORMATION.
10. CONDUIT MOUNTED ABOVE STRUCTURE IN DIRT.
11. PROVIDE A 14" W X 14" L X 4" PULLBOX. COORDINATE EXACT LOCATION WITH ARCHITECT/EXISTING PHYSICAL CONDITIONS PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.
12. CONDUIT MOUNTED UNDER STRUCTURE IN PARKING GARAGE.
13. PROVIDE ONE ADDITIONAL 1" CONDUIT TO NEW LIGHT PL2/PL5 FIXTURE. THE ENTIRE LENGTH OF THE RUN WHERE THE U/G CONDUITS ARE SHOWN, 1" CONDUIT IS FOR CONTORL WIRING AND SHALL BE RUN TO THE NEW LIGHTING CONTROLS IN ELECTRICAL ROOM.

NOTES:
REFER TO SPECIFICATIONS SECTION 26 51 14 FOR EXTERIOR LIGHTING CONTROLS MATRIX AND LIGHTING SCHEDULE FOR CONTROL OF EXTERIOR SITE LIGHTING. PROVIDE ALL CONTROLS, PHOTOCELL SENSOR, INTERFACES AND ASSOCIATED EQUIPMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE LIGHTING AND LIGHTING CONTROL SYSTEM.

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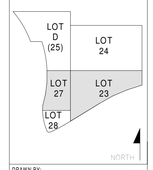
ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	1/31/2020	BID PACKAGE #6 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: JNR
ENGINEER: JNR
CHECKED BY: EWH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PARK LEVEL LIGHTING PLAN

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER: E201

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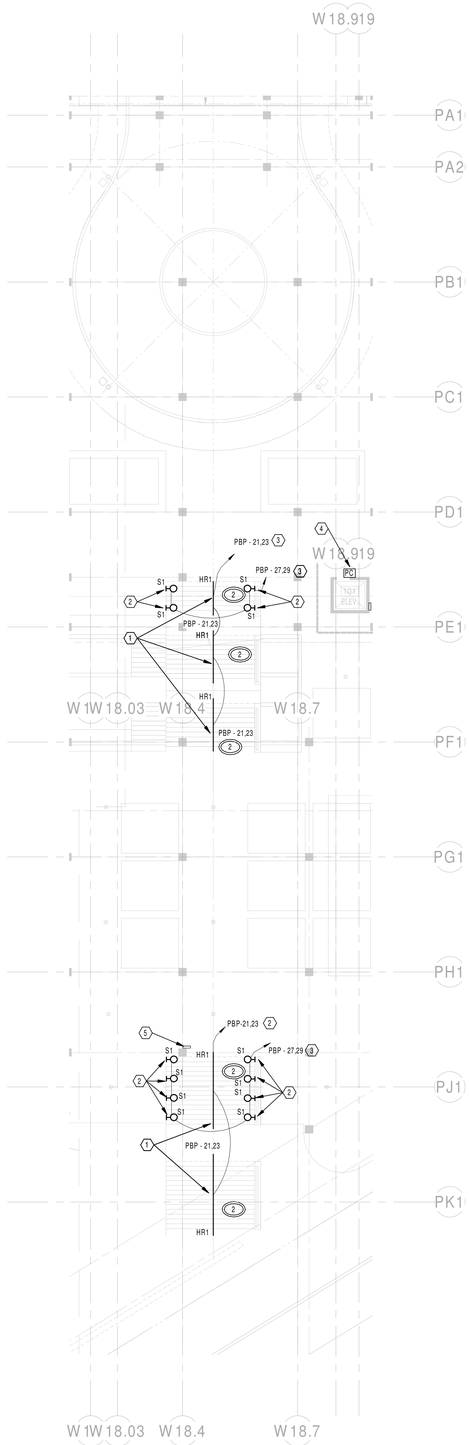

1 **RACE STREET STAIR LIGHTING - NORTH**

SCALE: 1/16" = 1'-0"

0 8 16 32 48

NOTES

1. HAND RAIL BY OTHERS. COORDINATE EXACT ELECTRICAL REQUIREMENTS FOR LIGHT IN HAND RAILS WITH MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY. MOUNT REMOTE DRIVER'S FOR LIGHT IN HANDRAIL IN ELECTRICAL ROOM. COORDINATE EXACT LOCATION OF REMOTE DRIVERS WITH OWNER/ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

2. E.C. TO PROVIDE BACKBOX AND BLANK COVER PLATE. E.C TO HAND OVER S1 FIXTURES TO OWNER FOR FUTURE INSTALL OF S1 FIXTURE BY OWNER. COORDINATE EXACT LOCATION OF BACKBOX WITH OWNER/ARCHITECT AND CONSTRUCTIO MANAGER PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.

3. PROVIDE/RUN 20A, 208V-1PH LIGHTING CIRCUITS WITH 2-#8, 1-#8 GRD. IN COMMON 1" CONDUIT EXTERIOR LIGHTING PULLBOX. EXTEND BRANCH CIRCUITRY FROM PULLBOX TO NEW PANEL 'PBP' LOCATED IN ELECTRICAL SERVICE ROOM. RUN LIGHTING BRANCH CIRCUIT THRU EXTERIOR LIGHTING CONTROLS PER DETAIL 3, ON SHEET E005.

4. PROVIDE A SURFACE MOUNT PHOTOCELL ON TOP OF ELEVATOR ROOM AND TIE INTO LIGHTING CONTROLS AS INDICATED ON DETAILS ON SHEET E005. MOUNT PHOTOCELL AS INCONSPICUOUS AS POSSIBLE AND AWAY FROM EXISTING LIGHT SOURCE; COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

5. PROVIDE A STAINLESS STEEL ENCLOSURER FOR REMOTE DRIVERS OF THE HANDRAIL FIXTURE BELOW IN PARKING GARAGE. ENCLOSURER/DRIVERS SHALL BE PLACED BETWEEN 60' TO 120' AWAY FROM HANDRAIL. COORDINATE EXACT LOCATION OF REMOTE DRIVERS WITH OWNER/ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

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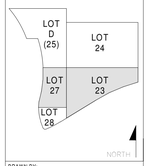
ISSUES		
1	12/12/2019	BID PACKAGE #5 - DD PRICING
2	1/31/2020	BID PACKAGE #5 -SCOPING SET
3	2/21/2020	BID PACKAGE #5



DRAWN BY: JNR
ENGINEER: JNR
CHECKED BY: EWH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
RACE STREET STAIR LIGHTING PLAN

JOB NUMBER 2019-07018 02/21/2020

DRAWING NUMBER E202

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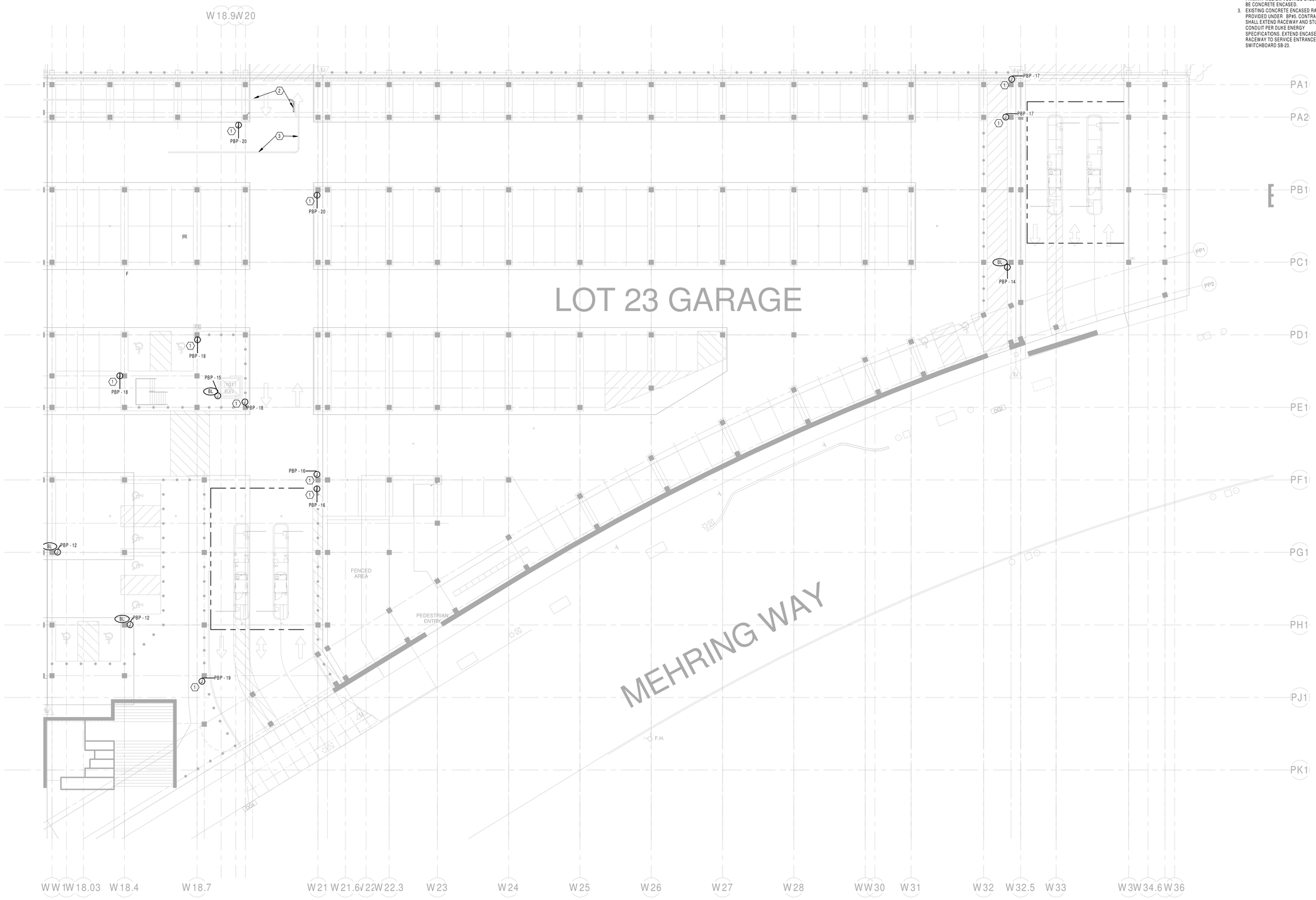
NOTES

1. SECURITY EQUIPMENT ENCLOSURE. PROVIDE 120 VOLT CIRCUIT TO 4A DEVICE. LOCATE DEVICE TIGHT AGAINST STRUCTURAL CEILING.
2. EXISTING CONCRETE ENCLOSED RACEWAY PROVIDED UNDER BP#5, CONTRACTOR SHALL EXPAND RACEWAY AND STUB CONDUIT PER DUKE ENERGY SPECIFICATIONS. ANY RACEWAY FOR PRIMARY MEDIUM VOLTAGE CABLING SHALL BE CONCRETE ENCASED.
3. EXISTING CONCRETE ENCASED RACEWAY PROVIDED UNDER BP#5. CONTRACTOR SHALL EXTEND RACEWAY AND STUB-UP CONDUIT PER DUKE ENERGY SPECIFICATIONS. EXTEND ENCASED RACEWAY TO SERVICE ENTRANCE SWITCHBOARD SB-23.



1 **LOWER LEVEL POWER PLAN (LOT 23)**
SCALE: 1/16" = 1'-0"

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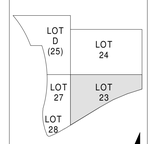
ISSUES		
1	11/27/2019	BULLETIN #4
2	1/31/2020	BID PACKAGE #5 -SCOPING SET
3	2/21/2020	BID PACKAGE #5



DRAWN BY: JT
ENGINEER: JT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER LEVEL POWER PLAN LOT 23

JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
E300

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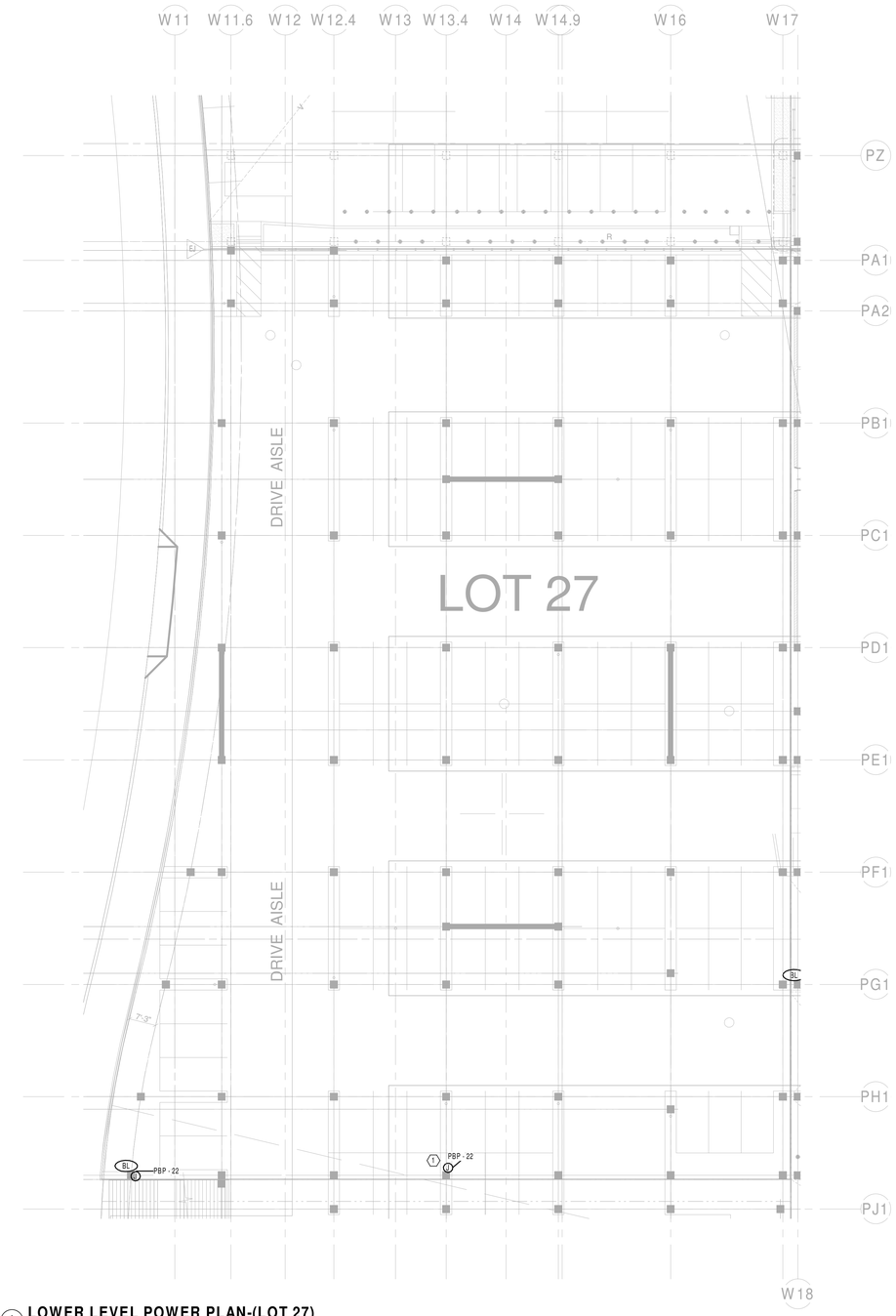

1 **LOWER LEVEL POWER PLAN-(LOT 27)**
SCALE: 1/16" = 1'-0"

NOTES

1. SECURITY EQUIPMENT ENCLOSURE. PROVIDE 120 VOLT CIRCUIT TO AA DEVICE. LOCATE DEVICE TIGHT AGAINST STRUCTURAL CEILING.

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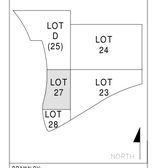
2/19/20
STATE OF OHIO
EVAN W. HATFIELD
E-75255
REGISTERED
PROFESSIONAL ENGINEER

ISSUES		
1	11/27/2019	BULLETIN #4
2	1/31/2020	BID PACKAGE #5 - SCOPING SET
3	2/21/2020	BID PACKAGE #5



DRAWN BY: Author JT
ENGINEER: Designer JT
CHECKED BY: Checker EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER LEVEL POWER PLAN LOT 27

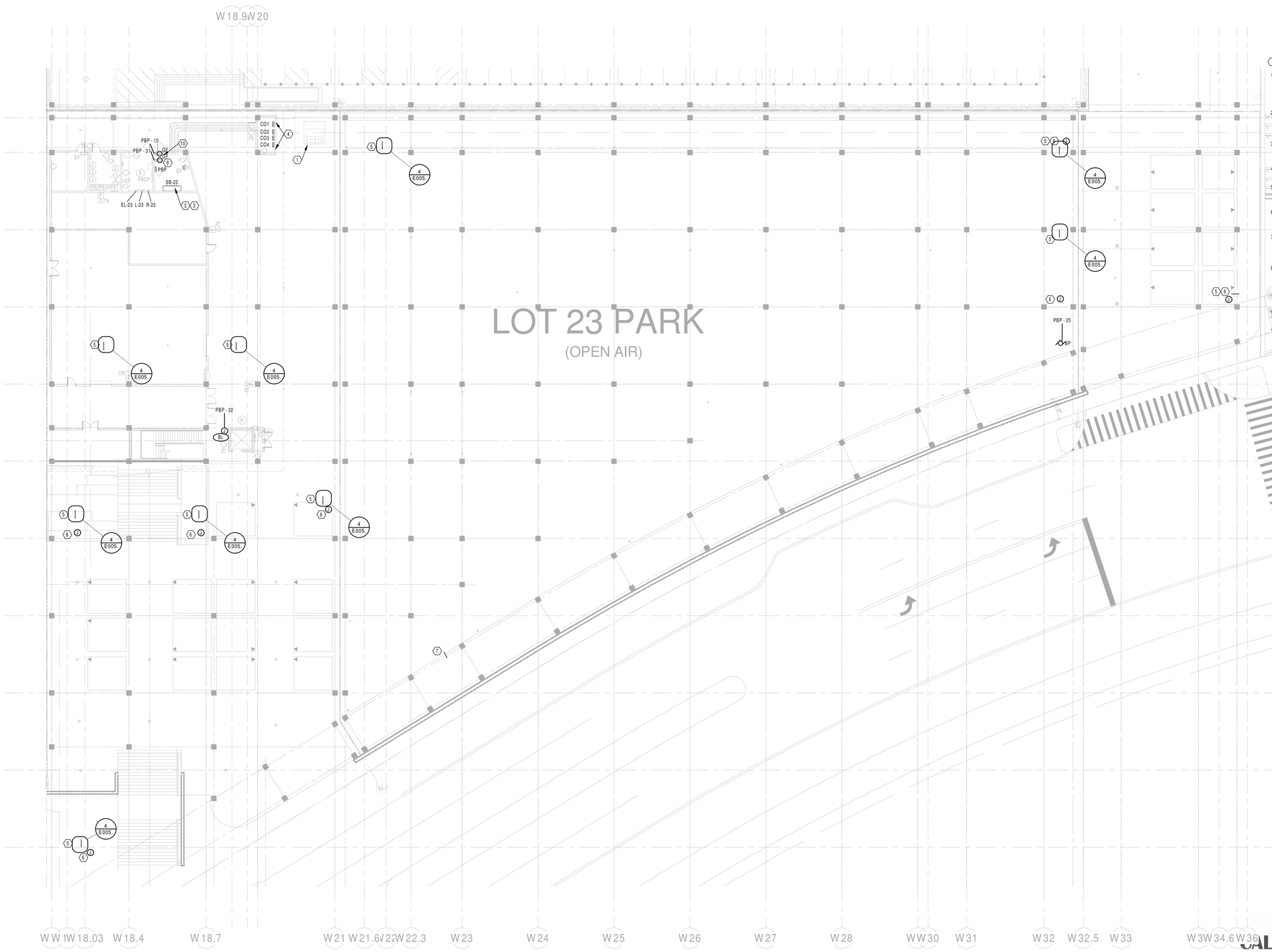
JOB NUMBER
2019-07018 02/21/2020

DRAWING NUMBER
E301

2/19/2020 4:41:14 PM C:\BIM\Model\2019-07018-MEP-Central_jmrodgers.rvt

GENERAL NOTES

A. ALL RECEPTACLES SHALL HAVE GFCI PROTECTION.



NOTES

1. CONTRACTOR SHALL EXTEND RACEWAY PROVIDED UNDER BP#5 AND STUB CONDUIT PER DUKE ENERGY SPECIFICATIONS. ANY RACEWAY FOR PRIMARY MEDIUM VOLTAGE CABLING SHALL BE CONCRETE ENCASED. REFER TO SHEET E300 FOR EXISTING ROUTING.
2. EXISTING CONCRETE ENCASED RACEWAY PROVIDED UNDER BP#5. EXTEND ENCASED RACEWAY TO SERVICE ENTRANCE SWITCHBOARD SB-23. REFER TO SHEET E300 FOR EXISTING ROUTING.
3. LOCATION OF NEW PORT DISTRIBUTION GEAR. CONTRACTOR SHALL EXTEND RACEWAY TO STUB-UP IN GEAR PER EQUIPMENT PROVIDER SHOP DRAWINGS.
4. THREE CABLE PASS DEVICES PROVIDED AND INSTALLED UNDER BP5 ARE LOCATED ALONG THIS EAST WALL.
5. PROVIDE 2" SLEEVE FOR IRRIGATION SYSTEM WIRING TO POWERED CONTROL VALVE. LOCATE SLEEVE 2" BELOW TOPPING SLAB.
6. EXTEND 1-1.25" CONDUIT FROM IRRIGATION VALVE CONNECTION POINT BACK TO THE RAINBIRD ESP8LXMEF HEAD END CONTROLLER LOCATED IN THE PARK ELECTRIC ROOM.
7. PROVIDE 1.5 SLEEVE FOR SECURITY CAMERA RACEWAY, EXTEND 1-1" CONDUIT BACK TO HEAD END SECURITY EQUIPMENT. CLOSELY COORDINATE WITH SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
8. PROVIDE120 VOLT POWER FOR HEAT TRACE. TOTAL OF FOUR LINES TO HEAT TRACE (DWC POST HYDRANT, DWC MAIN, DWC EAST DRINKING FOUNTAIN, DWC WEST DRINKING FOUNTAIN.) ALLOW FOR SEVEN 120-VOLT 30 AMP CIRCUITS. COORDINATE ALL ROUGH-IN REQUIREMENTS WITH THE DIVISION 22 CONTRACTOR.
9. RAINBIRD ESP8LXMEF HEAD END CONTROLLER LOCATION. REFER TO SHEET IR101 FOR ADDITIONAL INFORMATION.
10. CONTRACTOR SHALL PROVIDE 0.75" RACEWAY AND CONTROL WIRE FOR MASTER VALVE LOCATED IN WATER ROOM TO THE RAINBIRD CONTROLLER . CONTRACTOR SHALL PROVIDE 0.75" RACEWAY AND LOW VOLTAGE PE39 SHIELDED CABLING BETWEEN THE FLOW SENSOR LOCATED IN THE WATER ROOM AND THE RAINBIRD CONTROLLER. REFER TO SHEET IR100 AND IR101 FOR ADDITIONAL INFORMATION.

1 **PARK LEVEL POWER PLAN (LOT 23)**
SCALE: 1/16" = 1'-0"

0 8 16 32 48

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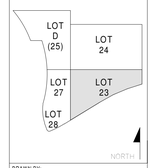
2/19/20
STATE OF OHIO
EVAN W. HATFIELD
E-75255
REGISTERED
PROFESSIONAL ENGINEER

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	12/17/2020	BID PACKAGE #6 - SCOPING SET
3	2/21/2020	BID PACKAGE #6



DRAWN BY: JJT
ENGINEER: JJT
CHECKED BY: EH

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PARK LEVEL POWER PLAN

JOB NUMBER: 2019-07018 02/21/2020

DRAWING NUMBER: E302

C:\BIM\Model\2019-07018-MEP-Central_jmrodgers.rvt

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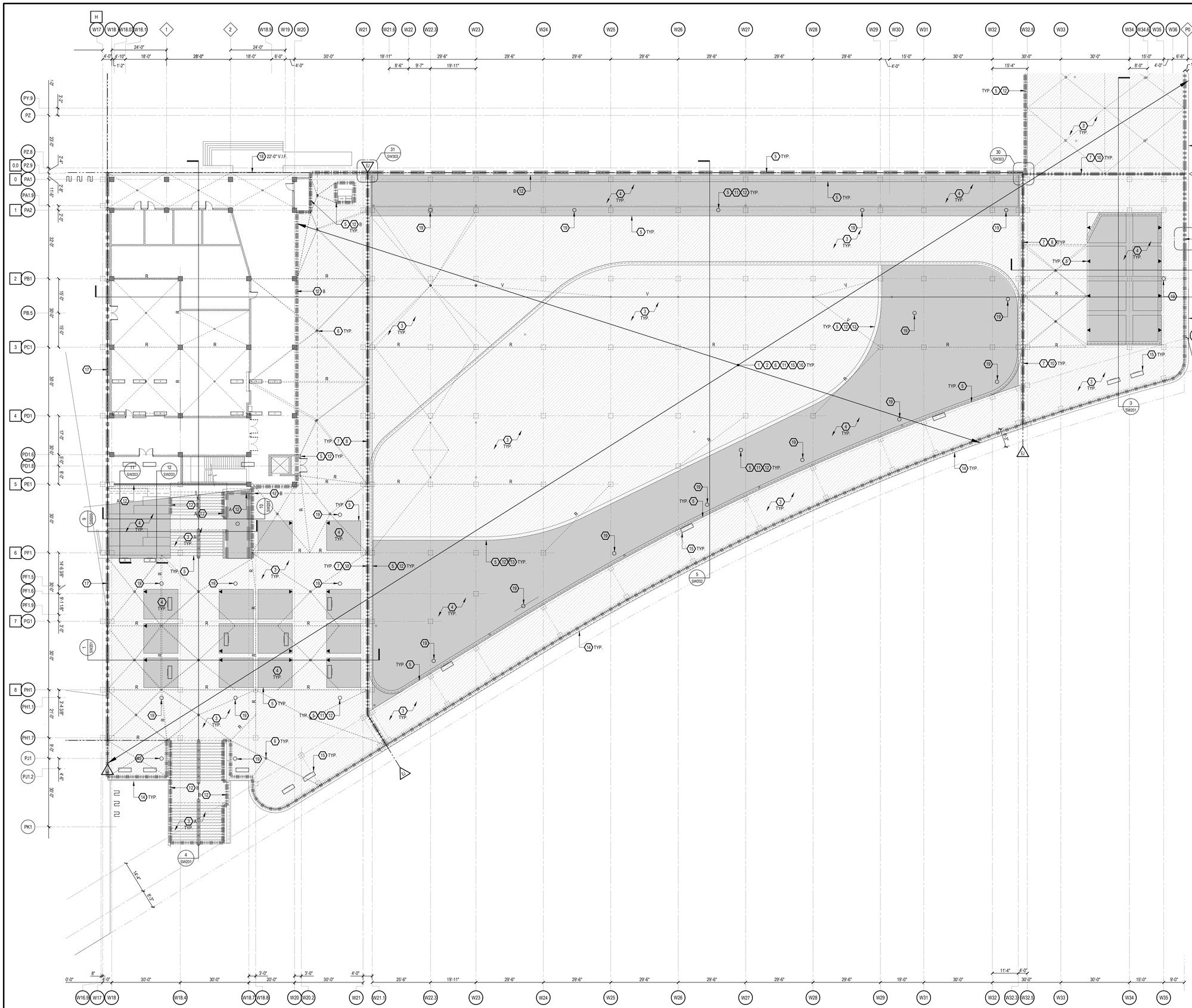

PARK LEVEL (503-507) LAYOUT, MATERIAL & GRADING PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SITE FURNISHINGS, AND JOINT/SCORING PATTERNS.

B. REFER TO PLUMBING PLANS FOR DRAIN LOCATIONS AND DETAILS. DRAINS SHOWN FOR REFERENCE ONLY.

C. REFER TO MEP PLANS FOR VERTICAL PENETRATION LOCATIONS AND DETAILS. BOLLARDS AND LIGHT POLES SHOWN FOR REFERENCE ONLY.

D. COORDINATE WITH ENGINEER AND WATERPROOFING MANUFACTURER'S PREPARATION TO CONFIRM VERTICAL AND HORIZONTAL PENETRATION PRIOR TO PERFORMING WORK. REFER TO SPECIFICATION SECTION 071400.

DRAWING NOTES:

1. REVIEW AND PREPARE CONCRETE FOR MEMBRANE APPLICATION. REFER TO DETAIL 1 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
2. PROVIDE TEMPORARY PROTECTION OF INSTALLED WATERPROOFING SYSTEMS UNTIL OVERBUILD IS PLACED. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
   A. AT STAIRS, INSTALL DRAIN BOARD HORIZONTAL AND VERTICAL.
4. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET, ROOT BARRIER, AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
5. PROVIDE MEMBRANE TERMINATION AND INSIDE/OUTSIDE CORNER DETAIL THIS AREA. REFER TO DETAILS 8, 11, AND 12 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
6. TIE WATERPROOFING SYSTEM TO DRAINAGE. REFER TO DETAILS 25, 26, AND 27 ON DRAWING SW303 AND SPECIFICATION SECTION 071400. COORDINATE WITH PLUMBING PLANS FOR LOCATIONS AND DETAILS.
7. REVIEW AND PREPARE JOINT CAVITY FOR EXPANSION JOINT INSTALLATION. REFER TO DETAIL 4 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
8. PROVIDE EXPANSION JOINT TYPE 1. REFER TO DETAIL 18 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
9. PROVIDE EXPANSION JOINT TYPE 2. REFER TO DETAIL 19 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
10. PROVIDE EXPANSION JOINT TYPE 3. REFER TO DETAIL 20 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
11. VERTICAL AND HORIZONTAL PENETRATION. REFER TO DETAILS 15 AND 16 ON DRAWING SW302 AND SPECIFICATION SECTION 071400.
12. PROVIDE MEMBRANE TERMINATION AT VERTICAL SURFACE. REFER TO SPECIFICATION SECTION 071400.
    A. REFER TO DETAIL 10 ON DRAWING SW301.
    B. REFER TO DETAIL 24 ON DRAWING SW302.
13. REFER TO LANDSCAPING PLANS FOR CURB WALL. WATERPROOFING SYSTEM TO EXTEND UNDER WALL.
14. PROVIDE MEMBRANE HORIZONTAL EDGE TERMINATION. REFER TO DETAIL 6 ON DRAWING SW301.
15. PROVIDE MEMBRANE TERMINATION AT ALL FUTURE SITE FURNISHINGS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.
16. REPAIR DAMAGED MEMBRANE. REFER TO DETAIL 36 ON DRAWING SW303 AND SPECIFICATION SECTION 071400.
17. EXPANSION JOINT BY OTHERS.
18. PROVIDE WING COMPRESSION SEAL EXPANSION JOINT FULL LENGTH OF EXISTING JOINT. REFER TO DETAIL 33 ON DRAWING SW303.
19. TERMINATE WATERPROOFING SYSTEM ON LIGHT POLE BASE. REFER TO DETAILS 34 AND 35 ON DRAWING SW303.
20. EXTEND MEMBRANE SYSTEM OVER AND DOWN DONOR WALL AND LAP 6" ONTO EXISTING MEMBRANE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
21. PROVIDE MEMBRANE TERMINATION AT EXISTING EXPANSION JOINTS. REFER TO DETAILS 20 AND 27 ON DRAWING S402 FOR EDGE CONDITION. REFERENCE BID PACKAGE #5.
22. REMOVE EXISTING MEMBRANE AND PREPARE SURFACE FOR NEW HOT-APPLIED SYSTEM. REFER TO DRAWING NOTE 3 AND SPECIFICATION SECTION 071400.

LEGEND:

- EXISTING EXPANSION JOINT
- PROPOSED AREA DRAIN
- PROPOSED LIGHT POLE
- NEW WATERPROOFING MEMBRANE SYSTEM (3)
- NEW WATERPROOFING MEMBRANE SYSTEM WITH ROOT BARRIER (4)
- HORIZONTAL MEMBRANE TERMINATION (14)
- VERTICAL MEMBRANE TERMINATION (12) B
- VERTICAL MEMBRANE TERMINATION (12) A
- EXPANSION JOINT TYPE 1 AND 3
- EXPANSION JOINT TYPE 2 (20)
- EXPANSION JOINT BY OTHERS (17)

- **WATERPROOFING SYSTEM NOT TO BE EXPOSED MORE THAN (1) MONTH PRIOR TO INSTALLING OVERBURDEN.**
- **AFTER TEMPORARY PROTECTION IS REMOVED AND PRIOR TO INSTALLING OVERBURDEN, TEST ALL WATERPROOFING AND REPAIR AS NECESSARY. REFER TO SPECIFICATION SECTION 071400.**

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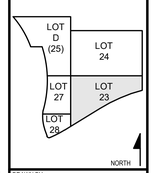
ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

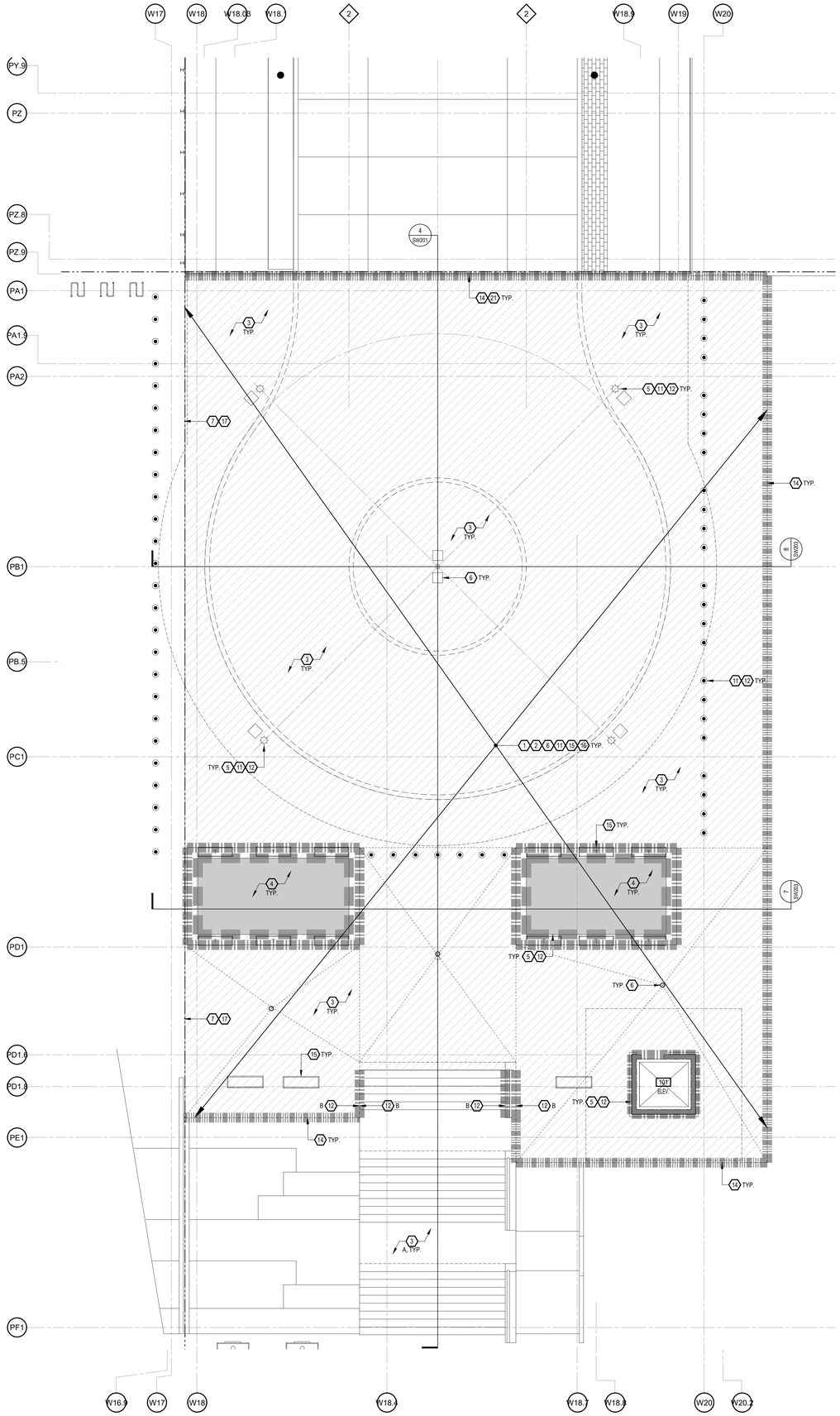
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: PARK LEVEL (503 - 507) WATERPROOFING PLAN

JOB NUMBER: 98090.38
DATE: 12/13/2019

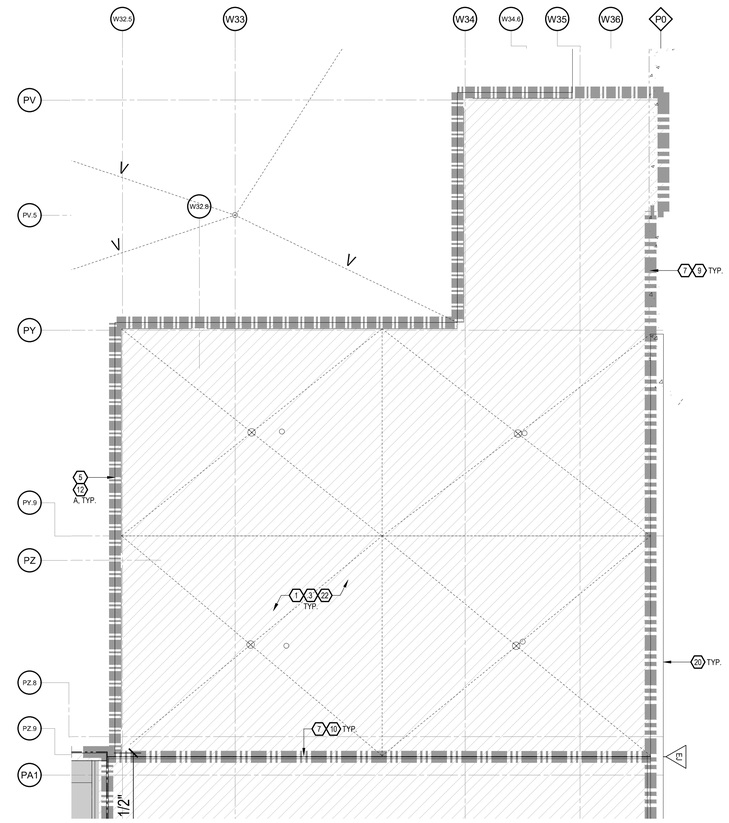
DRAWING NUMBER: SW102B



NOTE: ELEVATIONS SHOWN ARE TOP OF THE PAVEMENT/TOPPING SLAB ELEVATIONS.

PODIUM LEVEL PLAN (515)

1/8" = 1'-0"



PARK LEVEL (503) ENLARGED PLAN

1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SITE FURNISHINGS, AND JOINT/SCORING PATTERNS.

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C. REFER TO MEP PLANS FOR VERTICAL PENETRATION LOCATIONS AND DETAILS. BOLLARDS AND LIGHT POLES SHOWN FOR REFERENCE ONLY.

D. COORDINATE WITH ENGINEER AND WATERPROOFING MANUFACTURER'S PREPARATION TO CONFIRM VERTICAL AND HORIZONTAL PENETRATION PRIOR TO PERFORMING WORK. REFER TO SPECIFICATION SECTION 071400.

DRAWING NOTES:

1. REVIEW AND PREPARE CONCRETE FOR MEMBRANE APPLICATION. REFER TO DETAIL 1 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
2. PROVIDE TEMPORARY PROTECTION OF INSTALLED WATERPROOFING SYSTEMS UNTIL OVERBUILD IS PLACED. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
   A. AT STAIRS, INSTALL DRAIN BOARD HORIZONTAL AND VERTICAL.
4. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET, ROOT BARRIER, AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
5. PROVIDE MEMBRANE TERMINATION AND INSIDE/OUTSIDE CORNER DETAIL THIS AREA. REFER TO DETAILS 8, 11, AND 12 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
6. TIE WATERPROOFING SYSTEM TO DRAINAGE. REFER TO DETAILS 25, 26, AND 27 ON DRAWING SW303 AND SPECIFICATION SECTION 071400. COORDINATE WITH PLUMBING PLANS FOR LOCATIONS AND DETAILS.
7. REVIEW AND PREPARE JOINT CAVITY FOR EXPANSION JOINT INSTALLATION. REFER TO DETAIL 4 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
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9. PROVIDE EXPANSION JOINT TYPE 2. REFER TO DETAIL 19 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
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14. PROVIDE MEMBRANE HORIZONTAL EDGE TERMINATION. REFER TO DETAIL 6 ON DRAWING SW301.
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16. REPAIR DAMAGED MEMBRANE. REFER TO DETAIL 36 ON DRAWING SW303 AND SPECIFICATION SECTION 071400.
17. EXPANSION JOINT BY OTHERS.
18. PROVIDE WING COMPRESSION SEAL EXPANSION JOINT FULL LENGTH OF EXISTING JOINT. REFER TO DETAIL 33 ON DRAWING SW303.
19. TERMINATE WATERPROOFING SYSTEM ON LIGHT POLE BASE. REFER TO DETAILS 34 AND 35 ON DRAWING SW303.
20. EXTEND MEMBRANE SYSTEM OVER AND DOWN DONOR WALL AND LAP 6" ONTO EXISTING MEMBRANE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
21. PROVIDE MEMBRANE TERMINATION AT EXISTING EXPANSION JOINTS. REFER TO DETAILS 20 AND 27 ON DRAWING S402 FOR EDGE CONDITION. REFERENCE BID PACKAGE #5.
22. REMOVE EXISTING MEMBRANE AND PREPARE SURFACE FOR NEW HOT-APPLIED SYSTEM. REFER TO DRAWING NOTE 3 AND SPECIFICATION SECTION 071400.

LEGEND:

- NEW WATERPROOFING MEMBRANE SYSTEM (3)
- NEW WATERPROOFING MEMBRANE SYSTEM WITH ROOT BARRIER (4)
- HORIZONTAL MEMBRANE TERMINATION (14)
- VERTICAL MEMBRANE TERMINATION (12) B
- VERTICAL MEMBRANE TERMINATION (12) A
- EXPANSION JOINT TYPE 1 AND 3
- EXPANSION JOINT TYPE 2 (20)

- **WATERPROOFING SYSTEM NOT TO BE EXPOSED MORE THAN (1) MONTH PRIOR TO INSTALLING OVERBURDEN.**
- **AFTER TEMPORARY PROTECTION IS REMOVED AND PRIOR TO INSTALLING OVERBURDEN, TEST ALL WATERPROOFING AND REPAIR AS NECESSARY. REFER TO SPECIFICATION SECTION 071400.**

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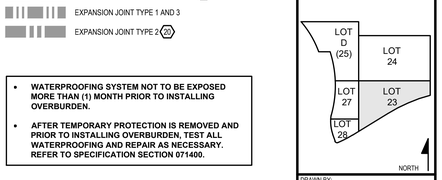
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

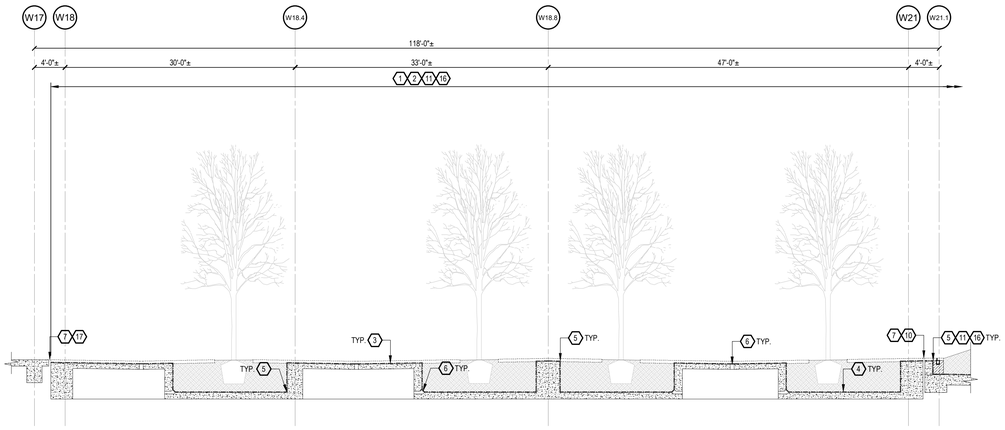
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

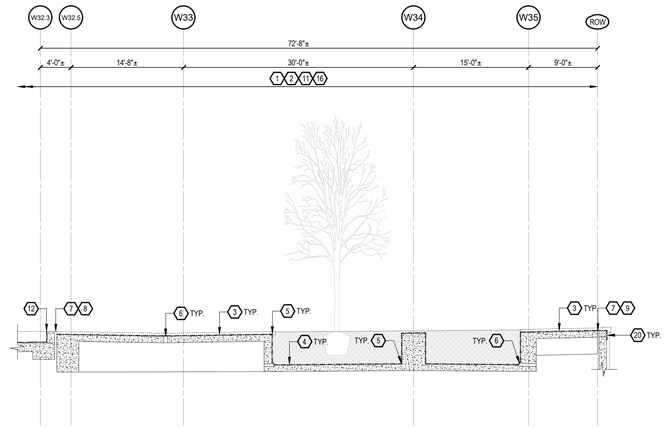
DRAWING TITLE
PODIUM LEVEL (515) AND PARK LEVEL (503) WATERPROOFING PLAN

JOB NUMBER 98090.38
DATE 12/13/2019

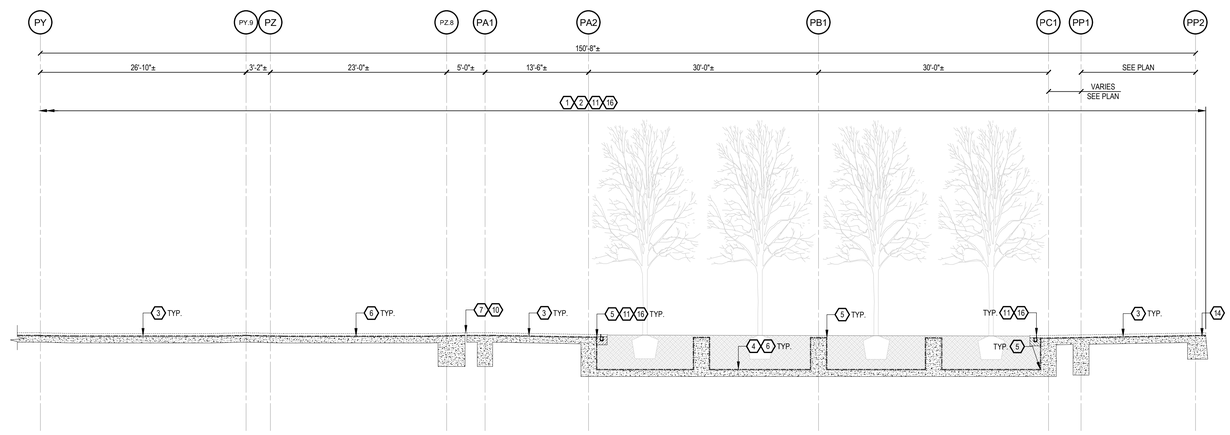
DRAWING NUMBER
SW103B



1 SW201 **SECTION**
1/8" = 1'-0"



2 SW201 **SECTION**
1/8" = 1'-0"



3 SW201 **SECTION**
1/8" = 1'-0"

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D. COORDINATE WITH ENGINEER AND WATERPROOFING MANUFACTURER'S PREPARATION TO CONFIRM VERTICAL AND HORIZONTAL PENETRATION PRIOR TO PERFORMING WORK. REFER TO SPECIFICATION SECTION 071400.

DRAWING NOTES: ⬡

1. REVIEW AND PREPARE CONCRETE FOR MEMBRANE APPLICATION. REFER TO DETAIL 1 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
2. PROVIDE TEMPORARY PROTECTION OF INSTALLED WATERPROOFING SYSTEMS UNTIL OVERBUILD IS PLACED. REFER TO SPECIFICATION SECTION 071400.
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4. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET, ROOT BARRIER, AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
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6. TIE WATERPROOFING SYSTEM TO DRAINAGE. REFER TO DETAILS 25, 26, AND 27 ON DRAWING SW303 AND SPECIFICATION SECTION 071400. COORDINATE WITH PLUMBING PLANS FOR LOCATIONS AND DETAILS.
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16. REPAIR DAMAGED MEMBRANE. REFER TO DETAIL 36 ON DRAWING SW303 AND SPECIFICATION SECTION 071400.
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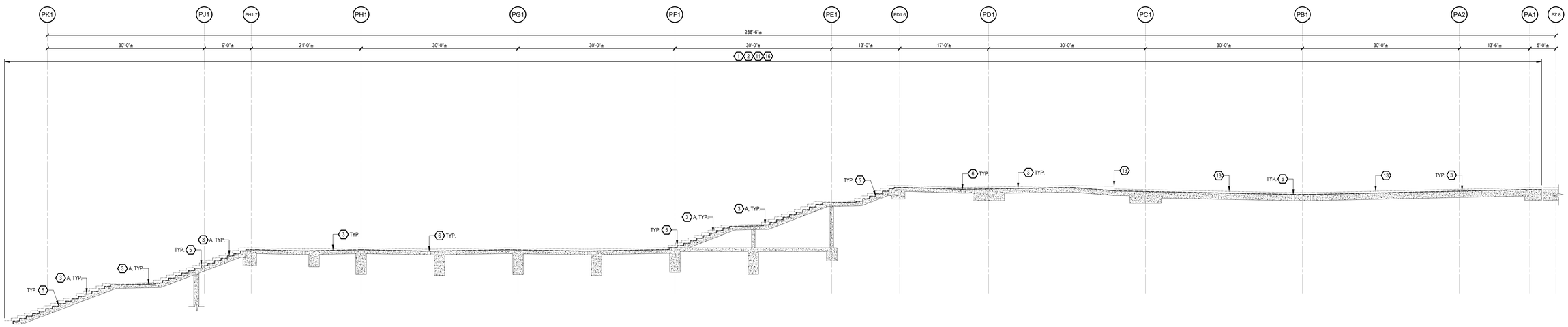
19. TERMINATE WATERPROOFING SYSTEM ON LIGHT POLE BASE. REFER TO DETAILS 34 AND 35 ON DRAWING SW303.
20. EXTEND MEMBRANE SYSTEM OVER AND DOWN DONOR WALL AND LAP 6" ONTO EXISTING MEMBRANE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
21. PROVIDE MEMBRANE TERMINATION AT EXISTING EXPANSION JOINTS. REFER TO DETAILS 20 AND 27 ON DRAWING S402 FOR EDGE CONDITION. REFERENCE BID PACKAGE #5.
22. REMOVE EXISTING MEMBRANE AND PREPARE SURFACE FOR NEW HOT-APPLIED SYSTEM. REFER TO DRAWING NOTE 3 AND SPECIFICATION SECTION 071400.

LEGEND:

- EXISTING CONCRETE STRUCTURE
- EXISTING CMU WALL
- NEW BURIED WATERPROOFING SYSTEM 1 2 11
- NEW CONCRETE OVERBUILD
- NEW EARTH
- PROPOSED FINISHED GRADE

- **WATERPROOFING SYSTEM NOT TO BE EXPOSED MORE THAN (1) MONTH PRIOR TO INSTALLING OVERBURDEN.**
- **AFTER TEMPORARY PROTECTION IS REMOVED AND PRIOR TO INSTALLING OVERBURDEN, TEST ALL WATERPROOFING AND REPAIR AS NECESSARY. REFER TO SPECIFICATION SECTION 071400.**



4 SW201 **SECTION**
1/8" = 1'-0"

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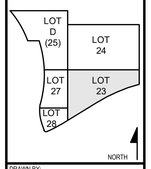
ISSUES		
1	1/31/2020	BID PACKAGE #5 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



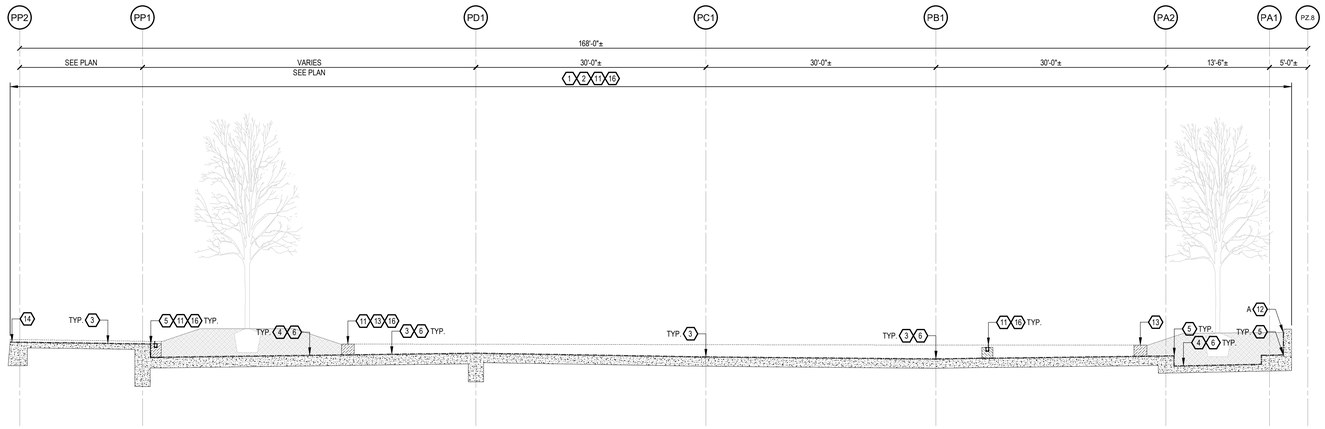
DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

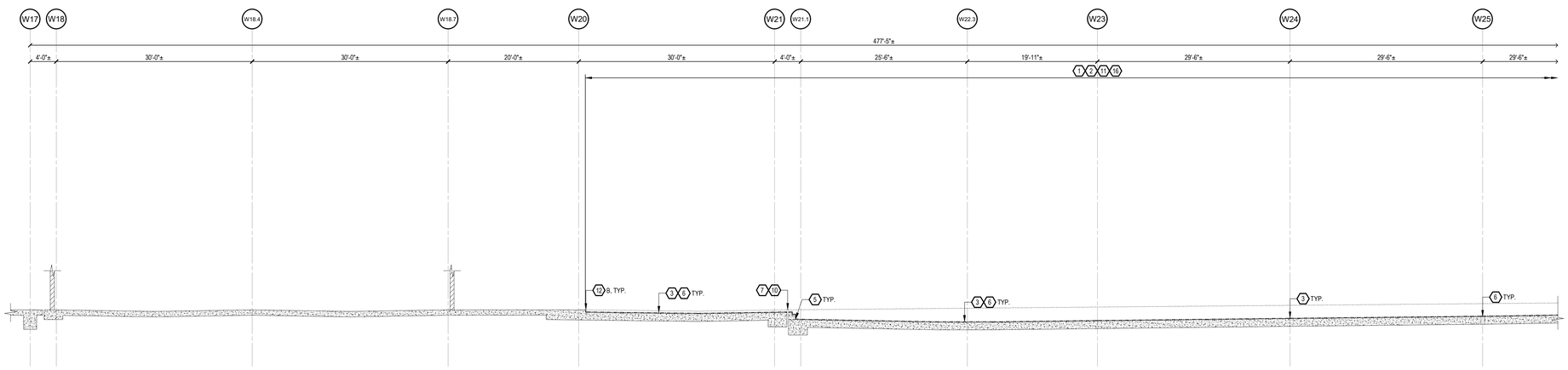
DRAWING TITLE
WATERPROOFING SECTIONS

JOB NUMBER 98090.38
DATE 12/13/2019
DRAWING NUMBER SW201



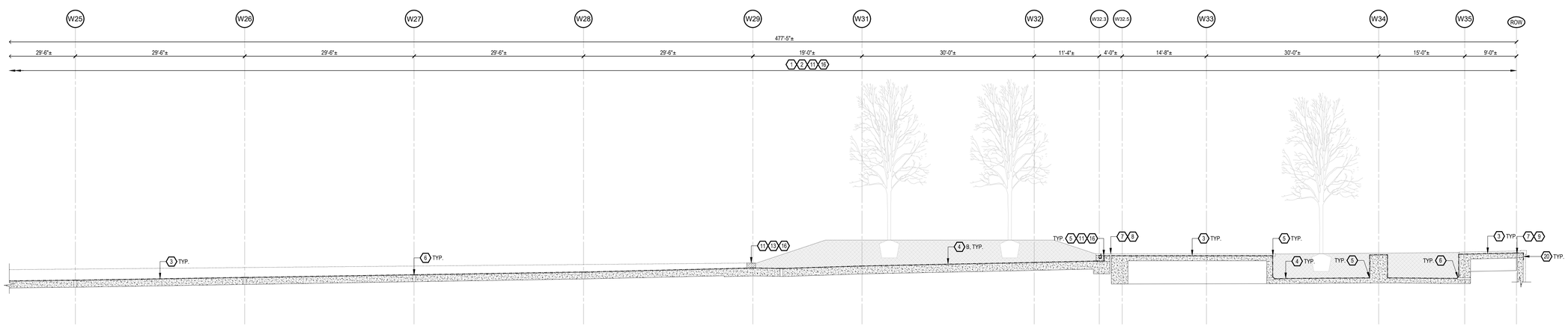
5 SECTION

SW202 1/8" = 1'-0"



6 SECTION

SW202 1/8" = 1'-0"



6 SECTION (CONT.)

SW202 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO LANDSCAPE PLANS FOR PLANTINGS, SITE FURNISHINGS, AND JOINT/SCORING PATTERNS.

B. REFER TO PLUMBING PLANS FOR DRAIN LOCATIONS AND DETAILS. DRAINS SHOWN FOR REFERENCE ONLY.

C. REFER TO MEP PLANS FOR VERTICAL PENETRATION LOCATIONS AND DETAILS. BOLLARDS AND LIGHT POLES SHOWN FOR REFERENCE ONLY.

D. COORDINATE WITH ENGINEER AND WATERPROOFING MANUFACTURER'S PREPARATION TO CONFIRM VERTICAL AND HORIZONTAL PENETRATION PRIOR TO PERFORMING WORK. REFER TO SPECIFICATION SECTION 071400.

DRAWING NOTES:

1. REVIEW AND PREPARE CONCRETE FOR MEMBRANE APPLICATION. REFER TO DETAIL 1 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
2. PROVIDE TEMPORARY PROTECTION OF INSTALLED WATERPROOFING SYSTEMS UNTIL OVERBUILD IS PLACED. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
   A. AT STAIRS, INSTALL DRAIN BOARD HORIZONTAL AND VERTICAL.
4. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET, ROOT BARRIER, AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
5. PROVIDE MEMBRANE TERMINATION AND INSIDE/OUTSIDE CORNER DETAIL THIS AREA. REFER TO DETAILS 8, 11, AND 12 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
6. TIE WATERPROOFING SYSTEM TO DRAINAGE. REFER TO DETAILS 25, 26, AND 27 ON DRAWING SW303 AND SPECIFICATION SECTION 071400. COORDINATE WITH PLUMBING PLANS FOR LOCATIONS AND DETAILS.
7. REVIEW AND PREPARE JOINT CAVITY FOR EXPANSION JOINT INSTALLATION. REFER TO DETAIL 4 ON DRAWING SW301 AND SPECIFICATION SECTION 030100.
8. PROVIDE EXPANSION JOINT TYPE 1. REFER TO DETAIL 18 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
9. PROVIDE EXPANSION JOINT TYPE 2. REFER TO DETAIL 19 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.
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11. VERTICAL AND HORIZONTAL PENETRATION. REFER TO DETAILS 15 AND 16 ON DRAWING SW302 AND SPECIFICATION SECTION 071400.
12. PROVIDE MEMBRANE TERMINATION AT VERTICAL SURFACE. REFER TO SPECIFICATION SECTION 071400.
    A. REFER TO DETAIL 10 ON DRAWING SW301.
    B. REFER TO DETAIL 24 ON DRAWING SW302.
13. REFER TO LANDSCAPING PLANS FOR CURB WALL. WATERPROOFING SYSTEM TO EXTEND UNDER WALL.
14. PROVIDE MEMBRANE HORIZONTAL EDGE TERMINATION. REFER TO DETAIL 6 ON DRAWING SW301.
15. PROVIDE MEMBRANE TERMINATION AT ALL FUTURE SITE FURNISHINGS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.
16. REPAIR DAMAGED MEMBRANE. REFER TO DETAIL 36 ON DRAWING SW303 AND SPECIFICATION SECTION 071400.
17. EXPANSION JOINT BY OTHERS.
18. PROVIDE WING COMPRESSION SEAL EXPANSION JOINT FULL LENGTH OF EXISTING JOINT. REFER TO DETAIL 33 ON DRAWING SW303.
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LEGEND:

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- EXISTING CMU WALL
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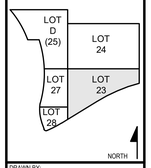


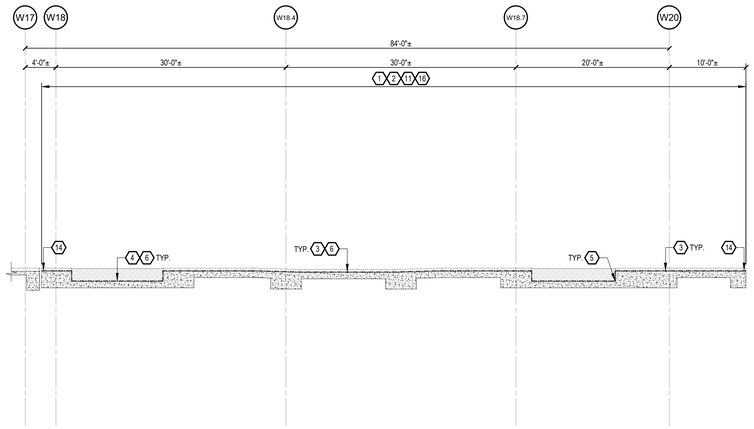
DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

THE BANKS PHASE 3B

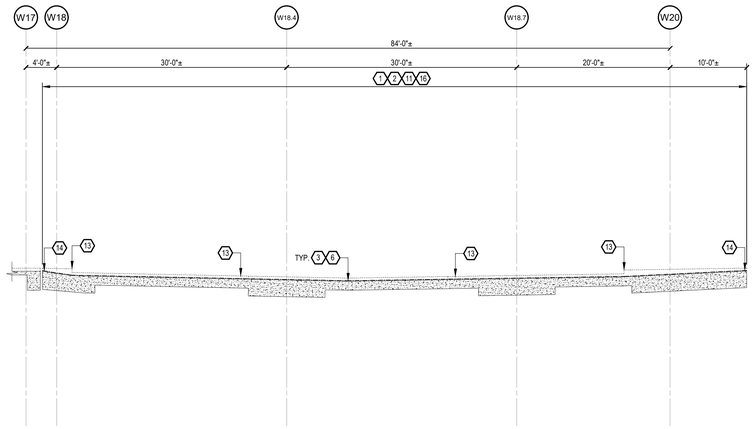
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: WATERPROOFING SECTIONS

JOB NUMBER: 98090.38
DATE: 12/13/2019
DRAWING NUMBER: SW202



7 SW203 **SECTION**
1/8" = 1'-0"



8 SW203 **SECTION**
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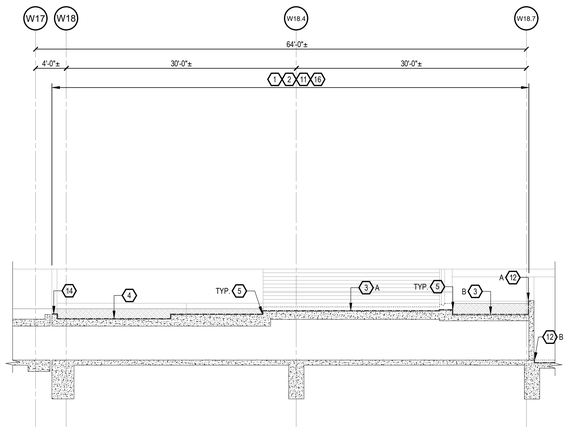

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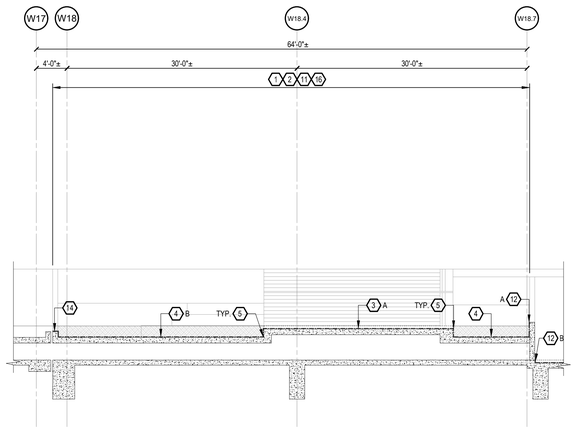

10 SW203 **SECTION**
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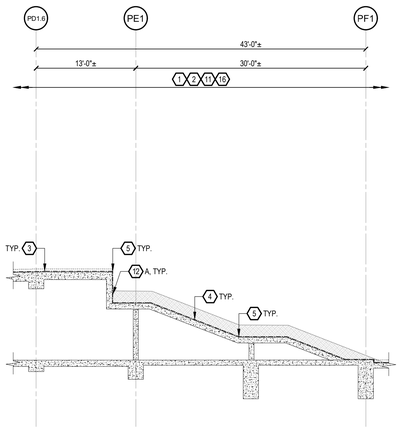

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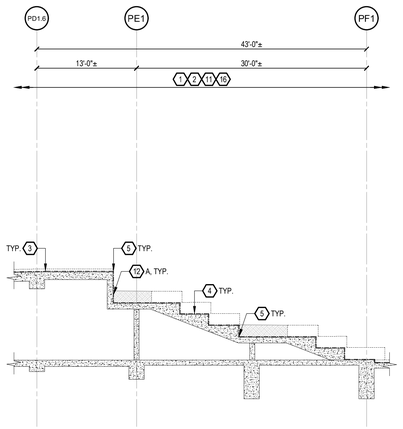

12 SW203 **SECTION**
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DRAWING NOTES: ⬡

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22. REMOVE EXISTING MEMBRANE AND PREPARE SURFACE FOR NEW HOT-APPLIED SYSTEM. REFER TO DRAWING NOTE 3 AND SPECIFICATION SECTION 071400.

LEGEND:

- EXISTING CONCRETE STRUCTURE
- EXISTING CMU WALL
- NEW BURIED WATERPROOFING SYSTEM (1)(2)(11)
- NEW CONCRETE OVERBUILD
- NEW EARTH
- PROPOSED FINISHED GRADE

- **WATERPROOFING SYSTEM NOT TO BE EXPOSED MORE THAN (1) MONTH PRIOR TO INSTALLING OVERBURDEN.**
- **AFTER TEMPORARY PROTECTION IS REMOVED AND PRIOR TO INSTALLING OVERBURDEN, TEST ALL WATERPROOFING AND REPAIR AS NECESSARY. REFER TO SPECIFICATION SECTION 071400.**

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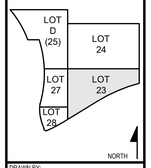


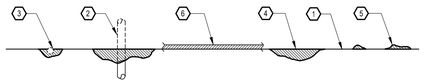
DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

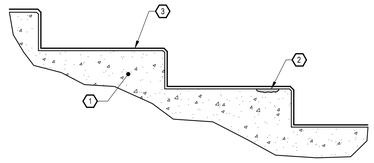
DRAWING TITLE
WATERPROOFING SECTIONS

JOB NUMBER 98090.38
DATE 12/13/2019
DRAWING NUMBER SW203



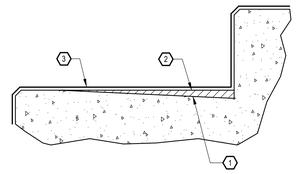
1. EXISTING CONCRETE SLAB.
2. CUT OFF NON-FUNCTIONAL METALS 1" BELOW CONCRETE SURFACE. PREPARE CONCRETE AND PATCH WITH EPOXY AND SAND MIXTURE. NO FLAME CUTTING PERMITTED. REFER TO SPECIFICATION SECTION 030100.
3. EXPOSED SLAB REINFORCEMENT AND OR WIRE MESH. CUT AND REMOVE SUFFICIENT AMOUNT OF REINFORCEMENT TO PROVIDE 1/2" COVER AT CUT ENDS. PREPARE AND PATCH WITH EPOXY AND SAND MIXTURE. CONSULT WITH ENGINEER PRIOR TO CUTTING REINFORCEMENT.
4. REPAIR MINOR EXISTING SURFACE DEFECTS CAUSED BY AGGREGATE POP-OUTS, SURFACE SCALING, AND FREEZE-THAW DAMAGE IN A MANNER ACCEPTABLE TO THE ENGINEER AND MEMBRANE MANUFACTURER. REFER TO SPECIFICATION SECTION 030100.
5. GRIND SMOOTH OR OTHERWISE REMOVE EXISTING EXCESS CONCRETE AND/OR MATERIAL DEPOSITED (LEFT ON SLAB) FROM CONSTRUCTION ACTIVITIES. WHERE THE EXISTING SLAB CONCRETE IS MOUNDED OR OTHERWISE PROTRUDES MORE THAN 1/16" ABOVE THE DECK, GRIND IT SMOOTH, OR GRIND A TRANSITION SLOPE OF 1:4 (MAXIMUM) WITH BLENDING RADII AT PERIMETER OF LARGE AREAS.
6. NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071400.

SUPPLEMENTAL SURFACE PREPARATION (HORIZONTAL AND VERTICAL)
1 / SW301 DETAIL
NO SCALE



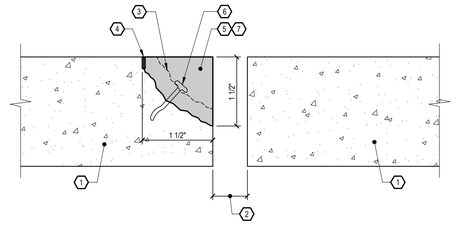
1. EXISTING CONCRETE TREAD AND RISERS.
2. POTENTIAL NEW CONCRETE REPAIR MATERIAL. INSTALL EPOXY VAPOR BARRIER COAT OVER NEW REPAIR MATERIAL, EXTENDING 2" ONTO ADJACENT CONCRETE SURFACES PER MANUFACTURE RECOMMENDATION. REFER TO SPECIFICATION SECTION 030100.
3. NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071400.

STAIR TREADS AND RISERS CONCRETE REPAIR
2 / SW301 DETAIL
NO SCALE



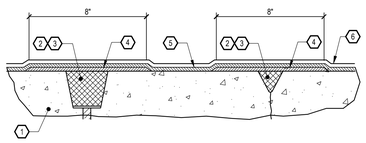
1. EXISTING PONDED AREA IN TREAD SURFACE.
2. AFTER SURFACE PREPARATION PER SPECIFICATION SECTION 030100, FILL PONDED AREA WITH MEMBRANE MANUFACTURER APPROVED MATERIALS. REFER TO SPECIFICATION SECTIONS 030100 AND 071400.
3. NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071400.

PONDED CONCRETE TREAD LEVELING
3 / SW301 DETAIL
NO SCALE



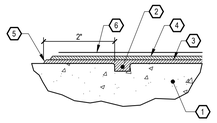
1. EXISTING CONCRETE STRUCTURE.
2. EXPANSION JOINT OPENING. PROVIDE FORMS TO MAINTAIN EXISTING DIMENSION.
3. EXISTING DELAMINATION PLANE.
4. PROVIDE 3/4" SAWCUT AROUND PERIMETER OF REPAIR AREA.
5. REMOVE ALL CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
6. PROVIDE 1/4" DIA. x 3" LONG PATCH ANCHORS 1'-0" O.C. REFER TO SPECIFICATION SECTION 030100.
7. PREPARE CAVITY SURFACES AND PROVIDE PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.

EXPANSION JOINT EDGE REPAIR
4 / SW301 DETAIL
NO SCALE



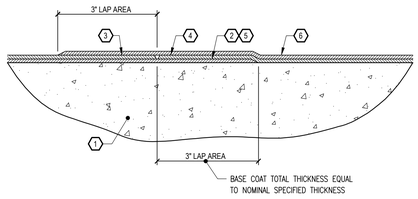
1. CONCRETE STRUCTURE.
2. PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.
3. PRIME SUBSTRATE AND PROVIDE NEW SEALANT. INSTALL SEALANT FLUSH WITH ADJOINING SURFACE BENEATH MEMBRANE. REFER TO SPECIFICATION SECTION 079200.
4. PROVIDE REINFORCEMENT FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE MIN. 8" WIDE. REFER TO SPECIFICATION SECTION 071400 AND MANUFACTURE'S RECOMMENDATIONS.
5. PROVIDE CONTINUOUS HOT APPLIED MEMBRANE. REFER TO DETAIL 9 ON THIS DRAWING FOR COMPLETE SYSTEM. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE OVER CJ's OR CRACKS (REFERENCE)
5 / SW301 DETAIL
NO SCALE



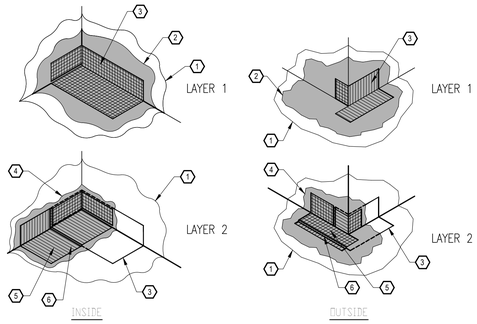
1. CONCRETE SLAB.
2. SAWCUT 1/4" WIDE x 1/8" DEEP.
3. PROVIDE MEMBRANE BASECOAT. ENSURE BASE COAT COMPLETELY FILLS SAWCUT. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE MEMBRANE TOP COAT. REFER TO SPECIFICATION SECTION 071400.
5. MASK STRAIGHT LINE FOR TERMINATION. PERIMETER SHALL BE PARALLEL TO ADJACENT WALLS AND/OR PERPENDICULAR TO ADJACENT WALLS AS REQUIRED TO OBTAIN CLEAN AND NEAT SYSTEM INSTALLATION.
6. PROVIDE NEW PROTECTION SHEET OR ROOT BARRIER DIRECTLY INTO TOP COAT WHILE STILL HOT. DO NOT LEAVE MEMBRANE EXPOSED TO U.V. FOR MORE THAN 24 HOURS.

TYPICAL HORIZONTAL MEMBRANE TERMINATION
6 / SW301 DETAIL
NO SCALE



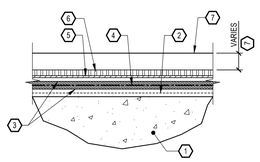
1. CONCRETE STRUCTURE. PREPARE AND PRIME PER MEMBRANE MANUFACTURER'S REQUIREMENTS.
2. WATERPROOFING MEMBRANE BASE COAT WITH INTEGRAL REINFORCEMENT FOR PHASE 1 INSTALLATION.
3. WATERPROOFING MEMBRANE TOP COAT FOR PHASE 1 INSTALLATION.
4. MEMBRANE BASE COAT WITH INTEGRAL REINFORCEMENT FOR PHASE 2 INSTALLATION.
5. WHERE NEW WATERPROOFING AREAS ARE TO TIE INTO ALREADY INSTALLED WATERPROOFING AREAS, PROCEED AS FOLLOWS:
   - -PREPARE EXISTING BASE COAT PER MANUFACTURER REQUIREMENTS.
   - -LAP NEW BASE COAT ONTO EXISTING BASE COAT AND PROCEED AS NOTED ABOVE.
6. WATERPROOFING TOP COAT FOR PHASE 2 INSTALLATION.

TYPICAL MEMBRANE TIE-IN
7 / SW301 DETAIL
NO SCALE



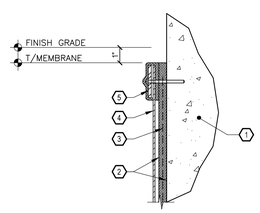
1. PRIMER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATION SECTION 071400.
2. FIRST COAT OF WATERPROOFING SYSTEM. REFER TO SPECIFICATION SECTION 071400 FOR THICKNESS.
3. REINFORCEMENT SHEET FIRST LAYER. REFER TO SPECIFICATION SECTION 071400.
4. SECOND COAT OF WATERPROOFING SYSTEM. REFER TO SPECIFICATION SECTION 071400.
5. REINFORCEMENT SHEET SECOND LAYER. REFER TO SPECIFICATION SECTION 071400.
6. APPLY A TOP COAT COMPLETELY COVERING ALL EXPOSED REINFORCING MATERIAL.

CORNER REINFORCING
8 / SW301 DETAIL
NO SCALE



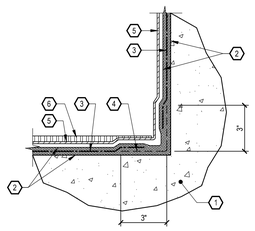
1. CONCRETE SLAB. SURVEY STRUCTURAL SLAB FOR DETERIORATED CONCRETE. REPAIR TO WATERPROOFING MANUFACTURER'S REQUIREMENTS. REFER TO DETAILS 1, 2, AND 3 ON THIS DRAWING.
2. PROVIDE SURFACE CONDITIONER. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE REINFORCING SHEET. FULLY ENCAPSULATE REINFORCING SHEET MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE PROTECTION SHEET OR ROOT BARRIER. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE DRAIN BOARD, U.N.O. REFER TO SPECIFICATION SECTION 071400.
7. TOPPING SLAB . REFER TO ARCHITECT DRAWING FOR MORE INFORMATION.

TYPICAL WATERPROOFING MEMBRANE SYSTEM
9 / SW301 DETAIL
NO SCALE



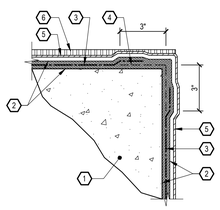
1. CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE REINFORCING SHEET.
4. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE STAINLESS STEEL TERMINATION BAR ALONG TOP OF MEMBRANE. SECURE TO CONCRETE AT 12" O.C. ENCAPSULATE ALL EXPOSED ANCHOR HEADS WITH WATERPROOFING MEMBRANE FOR WATERTIGHT INSTALLATION. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE TERMINATION ON VERTICAL SURFACE
10 / SW301 DETAIL
NO SCALE



1. CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
4. PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE AT INSIDE CORNER
11 / SW301 DETAIL
NO SCALE



1. CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
4. PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE AT OUTSIDE CORNER
12 / SW301 DETAIL
NO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
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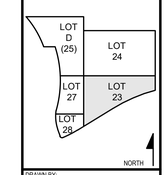
Cincinnati, Ohio 45202
Phone: 513.241.3222
www.thpltd.com

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES		
1	1/31/2020	BID PACKAGE #5 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

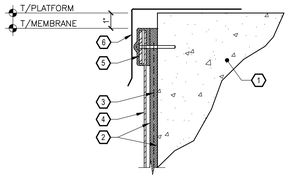
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: WATERPROOFING DETAILS

JOB NUMBER: 98090.38
DATE: 12/13/2019

DRAWING NUMBER: SW301

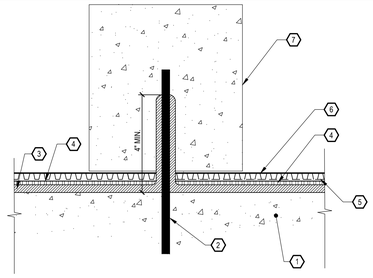


1. EXISTING CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE REINFORCING SHEET.
4. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE STAINLESS STEEL TERMINATION BAR ALONG TOP OF MEMBRANE. SECURE TO CONCRETE AT 12" O.C. ENCAPSULATE ALL EXPOSED ANCHOR HEADS WITH WATERPROOFING MEMBRANE FOR WATERTIGHT INSTALLATION. REFER TO SPECIFICATION SECTION 071400.
6. METAL FLASHING BY OTHERS. VERTICAL LEG FLASHING TO OVERLAP ONTO WATERPROOFING MEMBRANE AND CONCEAL MEMBRANE TERMINATION BAR.

TYPICAL MEMBRANE TERMINATION AT METAL FLASHING

13 / SW302 DETAIL

NO SCALE

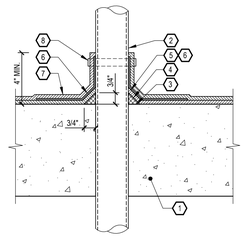


1. CONCRETE SLAB.
2. DOWEL / REBAR.
3. PROVIDE HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. EXTEND MEMBRANE ONTO DOWEL / REBAR.
4. PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE ROOT BARRIER AT LOCATIONS AS SHOWN ON PLAN ONLY. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE DRAINAGE BOARD WITH FILTER FABRIC U.N.O. REFER TO SPECIFICATION SECTION 071400.
7. CONCRETE CURB. REFER TO ARCHITECT DRAWINGS FOR MORE INFORMATION.

TYPICAL MEMBRANE AT REBAR / ANCHORS

14 / SW302 DETAIL

NO SCALE

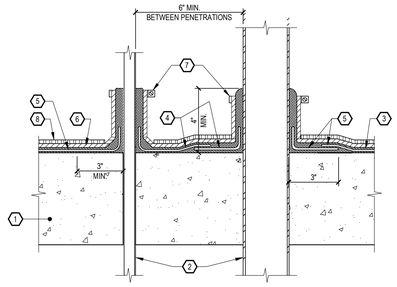


1. CONCRETE STRUCTURE.
2. CONDUIT, PIPING, OR ANCHOR PENETRATION THROUGH STRUCTURE AND NEW WATERPROOFING SYSTEM.
3. PREPARE ALL SURFACES INTENDED FOR NEW SEALANT.
4. PROVIDE FREE STANDING OVERSIZED COVE SEALANT. REFER TO DETAIL 24 ON THIS DRAWING AND SPECIFICATION SECTION 079200.
5. TERMINATE NEW WATERPROOFING SYSTEM ON COVE SEALANT. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE FLEXIBLE FLASHING. REFER TO SPECIFICATION SECTION 071400.
7. REFER TO DETAIL 9 ON DRAWING SW301 FOR WATERPROOFING SYSTEM INSTALLATION INFORMATION NOT SHOWN.
8. PROVIDE STAINLESS STEEL BAND CLAMP. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE TERMINATION AT PENETRATION

15 / SW302 PENETRATION DETAIL

NO SCALE

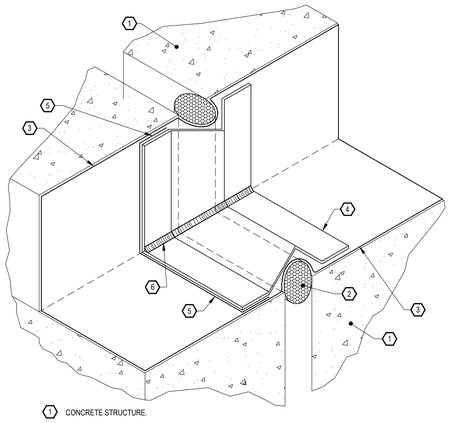


1. CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. EXISTING PIPE PENETRATION/VENT AND/OR CONDUIT. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. EXTEND MEMBRANE ONTO PIPE/VENT AND/OR CONDUIT.
4. PROVIDE UNCURED NEOPRENE FLASHING AROUND PENETRATION. FULLY ENCAPSULATE IN MEMBRANE MATERIAL. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
6. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
7. PROVIDE STAINLESS STEEL WORM DRIVE HOSE CLAMP.
8. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

TYPICAL CAST-IN-PLACE PENETRATIONS (VERTICAL AND HORIZONTAL)

16 / SW302 DETAIL

NO SCALE

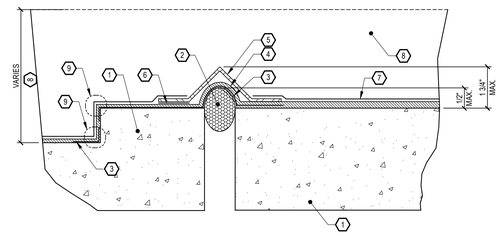


1. CONCRETE STRUCTURE.
2. PROVIDE CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.
3. PROVIDE WATERPROOFING SYSTEM. REFER TO DETAIL 9 ON DRAWING SW301.
4. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN.
5. ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION SHEET WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON THE HIGH SIDE OF THE JOINT.
6. PROVIDE NEW COVE SEALANT. REFER TO DETAIL 24 ON THIS DRAWING.

TYPICAL EXPANSION JOINT TRANSITION

17 / SW302 DETAIL

NO SCALE

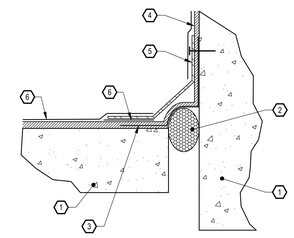


1. CONCRETE STRUCTURE.
2. PROVIDE CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.
3. PROVIDE HEAVY DUTY REINFORCING FLASHING STRIP. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
5. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN.
6. ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION SHEET WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON HIGH SIDE OF JOINT.
7. PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.
8. SOIL AND LAWN BY OTHERS. REFER TO ARCHITECT DRAWINGS.
9. PROVIDE NEW COVE SEALANT PER DETAIL 24 ON THIS DRAWING AND CORNER REINFORCEMENT FLASHING PER DETAILS 11 AND 12 ON DRAWING SW301. WATERPROOFING MEMBRANE TO EXTEND VERTICALLY UP WALL.

EXPANSION JOINT - TYPE "1"

18 / SW302 DETAIL

NO SCALE

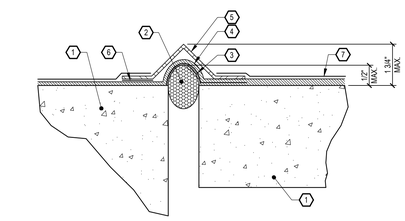


1. CONCRETE STRUCTURE.
2. PROVIDE NEW CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.
3. PROVIDE PREFORMED REINFORCING STRIP. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE NEW WATERPROOFING SYSTEM.
5. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN.
6. PROVIDE NEW PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.

EXPANSION JOINT - TYPE "2"

19 / SW302 DETAIL

NO SCALE

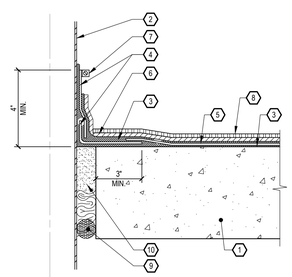


1. CONCRETE STRUCTURE.
2. PROVIDE CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.
3. PROVIDE PREFORMED REINFORCING STRIP. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE WATERPROOFING SYSTEM.
5. PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN.
6. ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION SHEET WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON THE HIGH SIDE OF THE JOINT.
7. PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.

EXPANSION JOINT - TYPE "3"

20 / SW302 DETAIL

NO SCALE

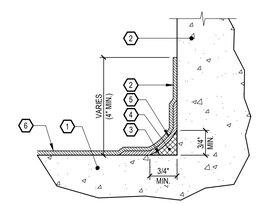


1. EXISTING CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
2. EXISTING PIPE PENETRATION/VENT AND/OR CONDUIT. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. EXTEND MEMBRANE ONTO PIPE/VENT AND/OR CONDUIT.
4. PROVIDE UNCURED NEOPRENE FLASHING AROUND PENETRATION. FULLY ENCAPSULATE IN MEMBRANE MATERIAL. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
6. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
7. PROVIDE STAINLESS STEEL WORM DRIVE HOSE CLAMP.
8. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.
9. PROVIDE CLOSED CELL BACKER ROD OR MINERAL WOOL FILLER BETWEEN CONCRETE AND PIPE PENETRATION.
10. PROVIDE EPOXY GROUT: 2 COMPONENT, 100% SOLID EPOXY MIXED WITH CLEAN, DRY AGGREGATE PER EPOXY MANUFACTURER'S RECOMMENDATIONS.

TYPICAL NON CAST-IN-PLACE PENETRATIONS (VERTICAL AND HORIZONTAL)

23 / SW302 DETAIL

NO SCALE



1. CONCRETE STRUCTURE.
2. CONCRETE WALL, CURB OR OTHER VERTICAL PROJECTION.
3. PREPARE ALL SURFACES INTENDED FOR NEW CANT/COVE SEALANT. REFER TO SPECIFICATION SECTION 079200.
4. PROVIDE COVE/CANT SEALANT. INSTALL PER DIMENSIONS UNLESS APPROVED BY ENGINEER AND MANUFACTURER. REFER TO SPECIFICATION SECTION 079200.
5. PROVIDE CORNER REINFORCEMENT. REFER TO DETAILS 8 AND 11 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.
6. PROVIDE WATERPROOFING MEMBRANE SYSTEM. REFER TO DETAIL 9 ON DRAWING SW301 AND SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE AT VERTICAL TRANSITION

24 / SW302 DETAIL

NO SCALE

21 / SW302 NOT USED

NO SCALE

22 / SW302 NOT USED

NO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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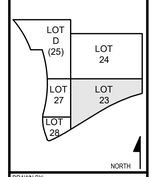
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: 513.241.3222
www.thpltd.com

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

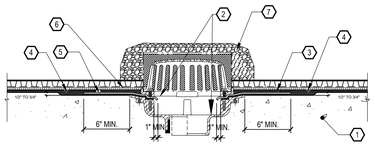
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: WATERPROOFING DETAILS

JOB NUMBER: 98090.38
DATE: 12/13/2019

DRAWING NUMBER: SW302

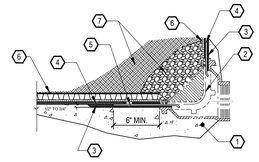


1. CONCRETE STRUCTURE.
2. PREPARE CONCRETE SURFACE. REFER TO PLUMBING DRAWINGS FOR DRAIN.
3. PROVIDE HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. .TERMINATE MEMBRANE ON DRAIN CASTING.
4. PROVIDE REINFORCING SHEET FULLY ENCAPSULATE IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400
5. PROVIDE UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE NEW PROTECTION BOARD OR ROOT BARRIER, AND DRAINAGE BOARD WITH FILTER FABRIC PER PROJECT SPECIFICATION SECTION 071400.
7. TOP SOIL BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.

WATERPROOFING SYSTEM AT PD1 DRAIN

25 / SW303 DETAIL

NO SCALE

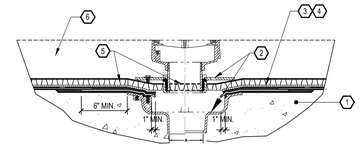


1. CONCRETE STRUCTURE.
2. PREPARE CONCRETE SURFACE. REFER TO PLUMBING DRAWINGS FOR DRAIN.
3. PROVIDE HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. .TERMINATE MEMBRANE ON DRAIN CASTING.
4. PROVIDE REINFORCING SHEET FULLY ENCAPSULATE IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400
5. PROVIDE UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE NEW PROTECTION BOARD OR ROOT BARRIER, AND DRAINAGE BOARD WITH FILTER FABRIC PER PROJECT SPECIFICATION SECTION 071400.
7. TOP SOIL BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.

WATERPROOFING SYSTEM AT PD3 DRAIN

26 / SW303 DETAIL

NO SCALE

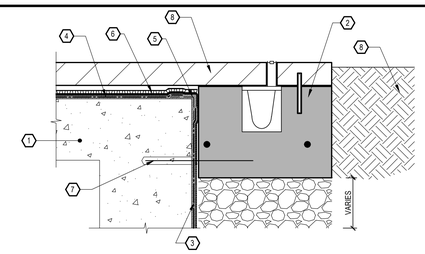


1. CONCRETE STRUCTURE.
2. PREPARE CONCRETE SURFACE. REFER TO PLUMBING DRAWINGS FOR DRAIN.
3. FLUID APPLIED WATERPROOFING SYSTEM PER SPECIFICATION SECTION 071400. TERMINATE MEMBRANE ON DRAIN CASTING.
4. PROVIDE NEW PROTECTION BOARD OR ROOT BARRIER, AND DRAINAGE BOARD WITH FILTER FABRIC PER PROJECT SPECIFICATION SECTION 071400.
5. CONTINUE (4) THROUGH DRAIN FIRST. CUT (4) WITHIN DRAIN AFTER CLAMPING DRAIN UPPER BODY. DO NOT CLAMP TOO TIGHT AND DAMAGE DRAIN.
6. TOP SOIL BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.

WATERPROOFING SYSTEM AT PD4 DRAIN

27 / SW303 DETAIL

NO SCALE

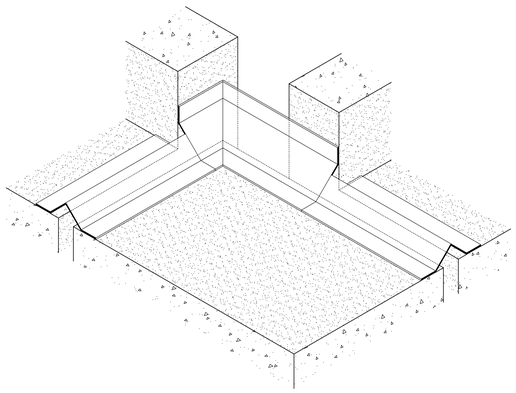


1. CONCRETE STRUCTURE.
2. REFER TO PLUMBING DRAWINGS FOR SLOT DRAIN LOCATION.
3. PROVIDE HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. .TERMINATE MEMBRANE ON DRAIN CASTING.
4. PROVIDE REINFORCING SHEET FULLY ENCAPSULATE IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400
5. PROVIDE UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE NEW PROTECTION BOARD OR ROOT BARRIER, AND DRAINAGE BOARD WITH FILTER FABRIC PER PROJECT SPECIFICATION SECTION 071400.
7. HORIZONTAL PENETRATION, PROVIDE MEMBRANE TERMINATION AT HORIZONTAL PENETRATION REFER TO DETAIL 15 AND 16 ON DRAWING SW302 AND DETAIL 36 ON DRAWING SW303.
8. PAVER / TOP SOIL BY OTHERS. REFER TO ARCHITECT DRAWINGS FOR DETAIL.

WATERPROOFING SYSTEM AT SLOT DRAIN

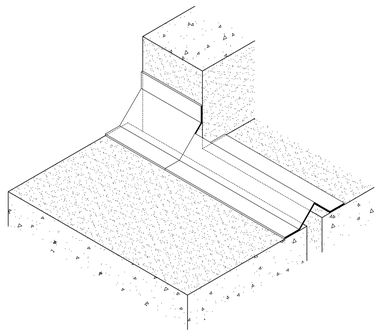
28 / SW303 DETAIL

NO SCALE



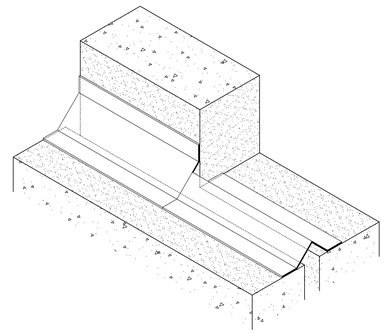
29 / SW303 NOT USED

NO SCALE



30 / SW303 ISOMETRIC DETAIL

NO SCALE

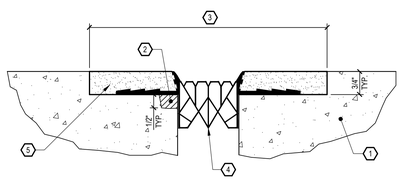


31 / SW303 ISOMETRIC DETAIL

NO SCALE

32 / SW303 ISOMETRIC DETAIL

NO SCALE

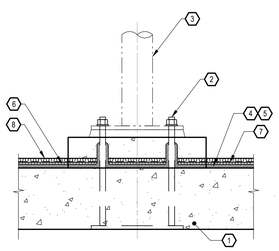


1. EXISTING CONCRETE SLAB.
2. POSSIBLE JOINT EDGE BLOCKOUT REPAIRS USING MANUFACTURER'S RECOMMENDED MATERIALS. SQUARE CUT EDGES OF REPAIR MINIMUM 1/2" DEEP. REFER TO SPECIFICATION SECTION 07 90 00.
3. REQUIRED BLOCKOUT WIDTH. VERIFY BLOCKOUT WIDTH IS APPROPRIATE FOR WINGED COMPRESSION SEAL SIZE SELECTED WITH MANUFACTURER'S REPRESENTATIVE. REFER TO SPECIFICATION SECTION 07 90 00.
4. WINGED COMPRESSION SEAL EXPANSION JOINT SYSTEM. FIELD VERIFY OPENING WIDTH FOR WINGED COMPRESSION SEAL SIZE . REFER TO SPECIFICATION SECTION 07 90 00.
5. JOINT SYSTEM HEADER MATERIALS

NEW WINGED COMRESSION SEAL

33 / SW303 DETAIL

NO SCALE

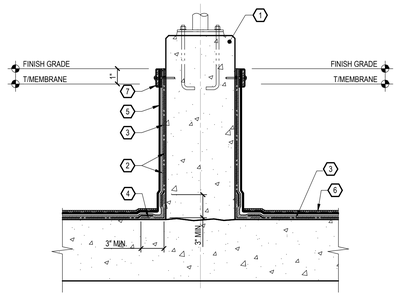


1. CONCRETE SLAB.
2. (4) 3/4" DIA BOLT, REFER TO STRUCTURAL DRAWINGS DOR MORE INFORMATION.
3. LIGHT POLE , REFER TO ELECTRIC DRAWING FOR MORE INFORMATION.
4. PROVIDE HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
5. PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
6. PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.
7. PROVIDE ROOT BARRIER AT LOCATIONS AS SHOWN ON PLAN ONLY. REFER TO SPECIFICATION SECTION 071400.
8. PROVIDE DRAINAGE BOARD WITH FILTER FABRIC U.N.O. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE AT LIGHT POLE TYPE PL-1

34 / SW303 DETAIL

NO SCALE



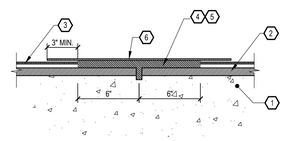
1.
2. CONCRETE STRUCTURE FOR LIGHT POLE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
3. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
4. PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE REINFORCING SHEET.
5. PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
6. PROVIDE PROTECTION SHEET AND ROOT BARRIERS OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
7. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

   PROVIDE STAINLESS STEEL TERMINATION BAR ALONG TOP OF MEMBRANE. SECURE TO CONCRETE AT 12" O.C. ENCAPSULATE ALL EXPOSED ANCHOR HEADS WITH WATERPROOFING MEMBRANE FOR WATERTIGHT INSTALLATION. REFER TO SPECIFICATION SECTION 071400.

TYPICAL MEMBRANE AT LIGHT POLE TYPE PL-2 & PL-3

35 / SW303 DETAIL

NO SCALE



1. CONCRETE SLAB.
2. DAMAGED MEMBRANE DURING CONSTRUCTION. FOR DAMAGE LARGER THAN 3" OR WHERE MEMBRANE MUST BE REMOVE FROM THE SUBSTRATE, CONSULT WITH THE ENGINEER AND THE MANUFACTURE.
3. EXISTING PROTECTION SHEET. REMOVE AND EXPOSED MIN. 6-12" AROUND DAMAGE AREA. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.
4. NEW HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. HEAT EXISTING MEMBRANE AND PROVIDE NEW HOT FLUID MEMBRANE. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.
5. PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE TO COVER THE DAMAGE AREAS. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400 . EXTEND FABRIC 3" MIN. BEYOND THE DAMAGE AREA ON ALL DIRECTION.
6. PROVIDE NEW PROTECTION SHEET. EXTEND PROTECTION SHEET 3" MIN. BEYOND THE DAMAGE AREA ON ALL DIRECTION REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.
7. REINSTALL ROOT BARRIER / DRAINAGE BOARD WITH FILTER FABRIC ABOVE DAMAGED AREAS AT LOCATIONS AS SHOWN ON PLAN ONLY. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400 AND DETAIL 9/SW301.

TYPICAL REPAIR TO HOT APPLIED WATERPROOFING MEMBRANE

36 / SW303 DETAIL

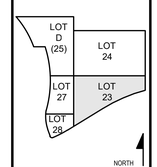
NO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Cincinnati • Cleveland
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: 513.241.3222
www.thpltd.com

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES		
1	1/31/2020	BID PACKAGE #6 - SCOPING SET
2	2/21/2020	BID PACKAGE #6



DRAWN BY: G.O.D.
ENGINEER: A.S.
CHECKED BY: J.D.M.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: WATERPROOFING DETAILS

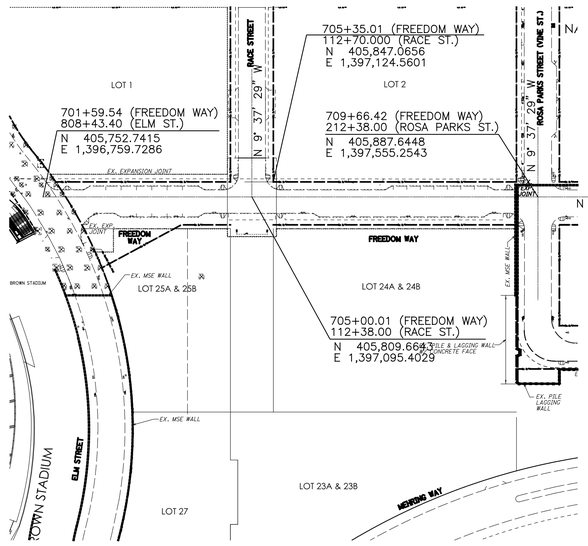
JOB NUMBER: 98090.38
DATE: 12/13/2019

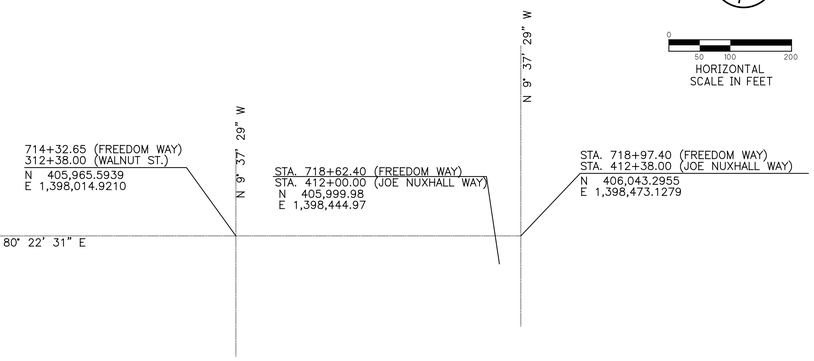
DRAWING NUMBER: SW303

NOTE: THE STANDARDS SHOWN IN THE CITY OF CINCINNATI "CENTRAL RIVERFRONT STREETSCAPE STANDARDS & DETAILS" SHALL GOVERN THIS PROJECT

2016 SPECIFICATIONS

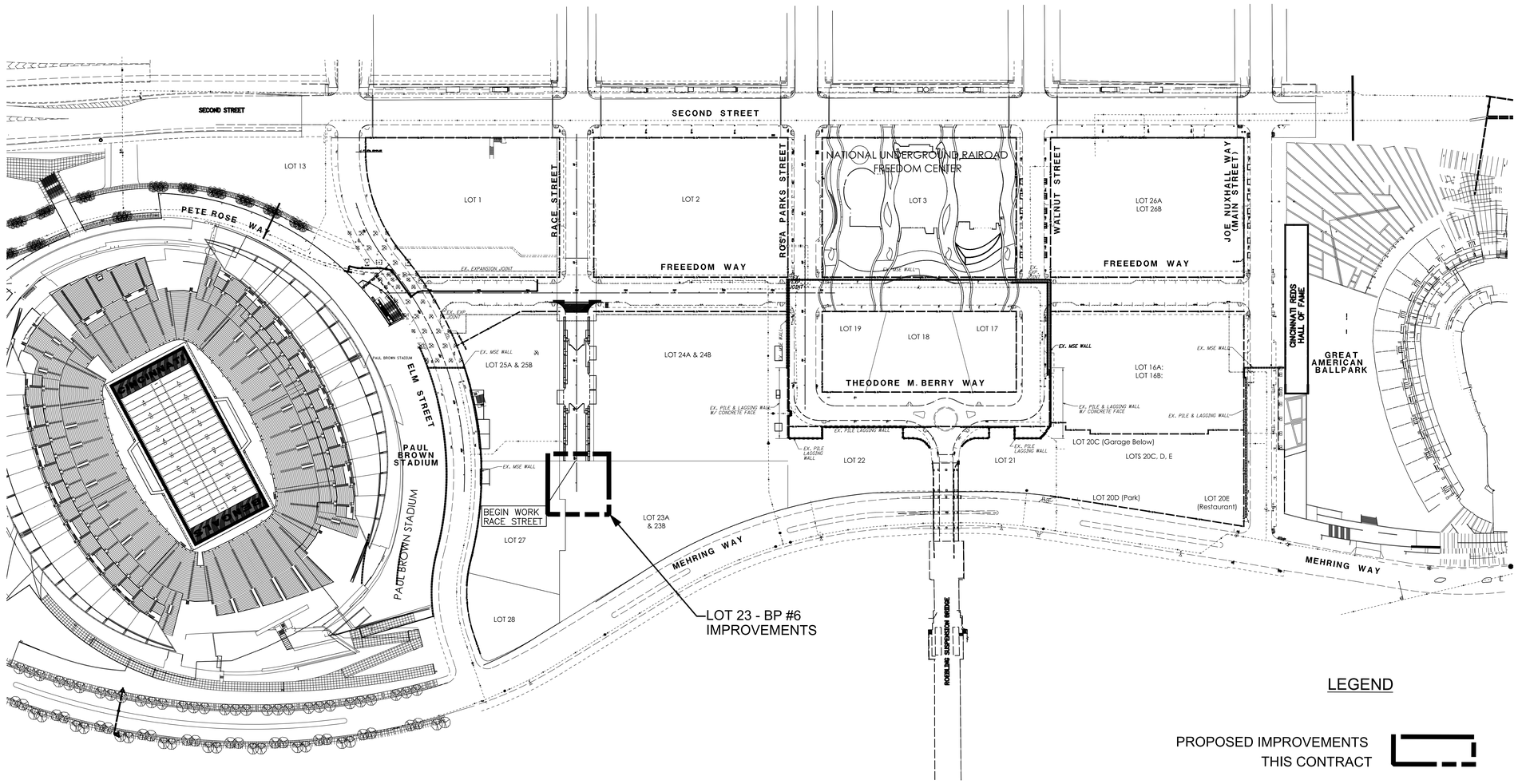
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION AND THE CITY OF CINCINNATI SUPPLEMENT THERETO, INCLUDING CHANGES AND SPECIAL PROVISIONS LISTED IN THE BID DOCUMENT SHALL GOVERN THIS PROJECT.





NOTE:

BEARINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICA DATUM OF 1983 (NAD83). ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1929 (NAVD 1929). REFERENCE MONUMENTS ORIGINALLY USED = CITY OF CINCINNATI BENCHMARK No. 6919 AND No. 6920.



LEGEND

PROPOSED IMPROVEMENTS THIS CONTRACT

HORIZONTAL SCALE IN FEET

0 50 100 200

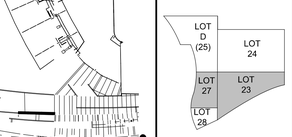
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE

525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISS.&S.		
1	07/18/16	DESIGN DEVELOPMENT - PRICING PACKAGE
2	8/14/2018	BID PACKAGE #4
3	5/10/2019	DESIGN DEVELOPMENT
4	9/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	12/12/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
7	1/31/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



DRAWN BY: S.N.G.

ENGINEER: S.C.S.

CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

SCHEMATIC PLAN

JOB NUMBER 57334

DATE 2/21/2020

DRAWING NUMBER

C100

P:\PR41406\ham\00000\Lot 23\00000-GB001.dgn 2/18/2020 8:29:16 AM spatel

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

WATER
CINCINNATI WATER WORKS
4747 SPRING GROVE AVENUE
CINCINNATI, OH 45232
591-7862

SANITARY
METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OH 45204
244-1355

TELEPHONE
CINCINNATI BELL
221 EAST FOURTH STREET
BLDG 121-900
CINCINNATI, OH 45202
565-7043

GAS
DUKE ENERGY
139 EAST FOURTH STREET
RM 460A
CINCINNATI, OH 45202
1-800-262-3000

CABLE
TIME WARNER CABLE
11252 CORNELL PARK DRIVE
CINCINNATI, OH 45242
469-1112

ELECTRIC
DUKE ENERGY
139 EAST FOURTH STREET
RM 467A
CINCINNATI, OH 45202
1-800-262-3000

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S DATUM.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL COMPONENTS OF THE EXISTING BRIDGE DRAINAGE SYSTEM WHICH ARE TO BE INCORPORATED INTO THE FINISHED WORK SHALL BE VIDEOTAPED PRIOR TO AND UPON COMPLETION OF CONSTRCTION IN ACCORDANCE WITH 603.059 OF THE CITY SUPPLEMENT TO THE ODOT CMS.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE. ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF 28 DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE CLOSURES, AND ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE CONSTRUCTION MANAGEMENT TEAM WHO WILL PROVIDE NOTIFICATION TO THE LOCAL EMERGENCY SERVICES AND THE NEWS MEDIA.

CONSTRUCTION NOISE

ANY ANTICIPATED NOISE IMPACTS WILL BE CONFINED TO TIME PERIODS CONSIDERED RELATIVELY "NOISE TOLERANT" AND AS DEFINED BY CITY ORDINANCES.

ITEM 510 - DOWEL HOLES WITH NONSHRINK NONMETALLIC GROUT, AS PER PLAN

DRILL DOWEL HOLES WHERE SHOWN IN THE PLANS. INSTALL REINFORCING STEEL ACCORDING TO ITEM 510 USING EPOXY GROUT, 705.20. PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL HOLE SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

CONSTRUCTION SPECIFICATIONS:

CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY PROJECT MANUAL. FOR ITEMS NOT SPECIFIED IN PROJECT MANUAL, REFER TO 2013 OHIO DEPARTMENT OF TRANSPORTATION CMS. ALL REFERENCES IN THE ODOT CMS TO THE ODOT GENERAL PROVISIONS SHALL BE SUPERCEDED BY THE APPROPRIATE BID PACKAGE PROJECT MANUAL. ALL REFERENCES IN THE ODOT CMS TO "THE LABORATORY" SHALL MEAN A TESTING LABORATORY PREAPPROVED BY THE OWNER. ALL REFERENCES IN THE ODOT CMS TO "THE DEPARTMENT" SHALL MEAN THE OWNER.

DESIGN LOADING:

HS20-44, AND ALTERNATE MILITARY LOADING
SIDEWALK LIVE LOAD - 85 PSF
FUTURE WEARING SURFACE (FWS) - 60 PSF

DESIGN DATA:

CONCRETE - COMPRESSIVE STRENGTH 4500 PSI

EPOXY COATED REINFORCING STEEL - ASTM A615 OR A996
GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI

DECK PROTECTION METHOD:

CLASS QC2 CONCRETE
NON-EPOXY CONCRETE SEALER
2½" CONCRETE COVER
EPOXY COATED REINFORCING STEEL
5" CONCRETE OVERLAY
MEMBRANE WATERPROOFING WITH DRAINAGE BOARD

SAFETY:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

CONSTRUCTION:

BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUCTIONING AS THE DESIGNED UNIT.

PLACEMENT OF CONDUITS IN CONCRETE SHALL ADHERE TO THE FOLLOWING.

BUNCHING OF CONDUITS IS NOT PERMITTED.

MINIMUM CONCRETE COVER ON CONDUITS SHALL BE 1½".

ALUMINUM CONDUITS, PIPES, OR SLEEVES ARE NOT PERMITTED.

CUT LINE CONSTRUCTION JOINT PREPARATION

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. THE EXISTING REINFORCING STEEL SHALL BE LEFT IN PLACE. PRIOR TO CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST.

THE JOINT SURFACE AND EXPOSED REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT ALL PACK AND LOOSE RUST SHALL BE REMOVED. EXISTING CONCRETE SURFACES WHICH NEW CONCRETE WILL BE PLACED AGAINST SHALL BE WET, BUT WITHOUT FREE WATER, AT THE TIME OF CONCRETE PLACEMENT.

CONCRETE REMOVAL SHALL BE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, HAMMERS NOT EXCEEDING 90 POUNDS, MAY BE USED UPON THE APPROVAL OF THE ENGINEER. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT.

ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN

THIS ITEM SHALL INCLUDE REINFORCING STEEL PER ITEM 509. ALL REINFORCING STEEL SHALL BE EPOXY COATED.

THE CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT THE CONCRETE STRUCTURE.

MECHANICAL CONNECTORS FOR REINFORCING STEEL:

AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING BARS SHALL BE PROVIDE WHERE REQUIRED. INSTALLATION OF MECHANICAL CONNECTOR SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE YEILD STRENGTH OF THE CONNECTED BARS IN ACCORDANCE WITH ITEM 509.

CONNECTORS SHALL CONFORM TO MANUFACTURER'S RECOMMENDED PROCEDURES. IF A DOWEL BAR SPLICE TYPE OF CONNECTOR IS FURNISHED, THE MINIMUM DOWEL BAR LENGTH TO BE FURNISHED WITH THE CONNECTOR SHALL BE AS SHOWN ON THE PLAN. CONNECTORS AND DOWEL BARS SHALL BE EPOXY COATED. COATING FOR BOTH THE CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. CONNECTOR AND DOWEL BAR EXTENSIONS SHALL CONFORM TO ITEM 509.

ITEM 511 - CLASS QC2 CONCRETE, MISC.: CONCRETE OVERLAY:

THE CONCRETE FOR THE SIDEWALK AND ROADWAY OVERLAY SHALL MEET THE FOLLOWING CRITERIA:

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR SUCH AS CORTEC MCI-2005NS OR APPROVED EQUAL.

NO MICROSILICA SHALL BE USED IN THE CONCRETE OVERLAY.

CONCRETE MIX DESIGN SHALL COMPLY WITH ODOT ITEM 511 SPECIFICATIONS FOR CLASS QC2 CONCRETE.

THE MIX IS TO BE ONE WHICH HAS AN APPROVED JOB MIX FORMULA (JMF) ON FILE WITH ODOT AT THE TIME OF PLACEMENT.

THE SUPPLIER OF THE OVERLAY CONCRETE MIX SHALL PREPARE A MIX DESIGN AND SUBMIT IT TO THE ENGINEER FOR APPROVALS A MINIMUM OF 30 DAYS PRIOR TO PLACEMENT OF ANY OVERLAY CONCRETE.

PROPORTIONING AND MIXING:

THE CONTRACTOR SHALL WORK WITH THE CONCRETE SUPPLIER TO SUBMIT A OVERLAY MIX DESIGN FOR APPROVAL BY THE ENGINEER. THE ENGINEER DESIRES TO WORK WITH THE CONTRACTOR AND CONCRETE SUPPLIER TO ACHIEVE A DURABLE, WORKABLE CONCRETE, WHICH DOES NOT CRACK. BLENDING OF AGGREGATES TO ACHIEVE A UNIFORM GRADATION IS REQUIRED.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED. THE TRANSIT MIXER CHARGE SHALL BE LIMITED APPROVED BY THE ENGINEER.

CURING:

AS SOON AS THE TINING OPERATION IS COMPLETED THE FINISHED SURFACE SHALL BE SPRAYED WITH AN APPROVED CURING COMPOUND. A SINGLE LAYER OF CLEAN WET BURLAP SHALL BE APPLIED AS SOON AS PRACTICAL WITHOUT MARRING THE TEXTURED SURFACE. THE FRESH OVERLAY SHALL RECEIVE A WET BURLAP CURE FOR 7 DAYS. FOR THE ENTIRE CURING PERIOD THE BURLAP SHALL BE KEPT WET BY THE CONTINUOUS APPLICATION OF WATER THROUGH SOAKER HOSES. EITHER A 4 MIL WHITE OPAQUE POLY ETHYLENE FILM OR A WET BURLAP-WHITE OPAGUE POLYETHYLENE SHEET SHALL BE USED TO COVER THE WET BURLAP FOR THE ENTIRE PERIOD.

A CURE DAY SHALL BE DEFINED AS A 24-HOUR PERIOD OF TIME. THE TEMPERATURE AT THE SURFACE SHALL BE MAINTAINED ABOVE 35 DEGREES FARENHEIT UNTIL THE CURING PERIOD IS COMPLETED. ANY DAY DURING WHICH THE AIR TEMPERATURE AT THE SURFACE FALLS BELOW 45 DEGREES FARENHEIT SHALL NOT BE COUNTED AS A CURE DAY.

REINFORCEMENT:

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

ITEM SPECIAL - CONCRETE PAVERS ON ASPHALT CONCRETE SETTING BED

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, SPECIAL TOOLS AND SERVICES TO COMPLETE CONCRETE PAVER WORK REQUIRED FOR THE PROJECT, AS HEREIN SPECIFIED, AND AS INDICATED ON THE DRAWINGS.
1.2 REFERENCES
A. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) SPECIFICATIONS AS NOTED IN THIS SECTION.
1.3 SUBMITTALS
A. CONTRACTOR SHALL SUBMIT CERTIFICATION THAT CONCRETE PAVERS MEET ALL CRITERIA, INCLUDING DURABILITY, DESCRIBED IN THIS SPECIFICATION.

PART 2 - PRODUCT
2.1 CONCRETE PAVERS
A. PAVERS SHALL BE SOLID, PRECAST CONCRETE INTERLOCKING MODULAR PAVERS WITH INTEGRAL SPACER RIBS.
B. TYPE A PAVERS SHALL BE 4 INCHES X 8 INCHES X 2-3/8 INCHES THICK (PEDESTRIAN AREAS).
C. TYPE B PAVERS SHALL BE 4 INCHES X 8 INCHES X 3-1/8 INCHES THICK (VEHICULAR AREAS).
D. COLOR OF TYPE A AND B PAVERS SHALL MATCH EXISTING PAVERS LOCATED WITHIN THE BANKS AREA.
E. PAVER MATERIALS SHALL BE:
1. PORTLAND CEMENTS: ASTM C 150.
2. BLENDED CEMENTS: ASTM C 595.
3. HYDRATED LIME: TYPE S PER ASTM C 618.
4. NORMAL WEIGHT AGGREGATES: ASTM C 33.
5. LIGHTWEIGHT AGGREGATES: ASTM C 331.
6. WATER WHICH IS FREE OF DELETERIOUS MATERIALS WHICH WOULD IMPAIR STRENGTH OR BOND.
F.PAVERS SHALL HAVE THE FOLLOWING PHYSICAL CHARACTERISTICS:
1. COMPRESSIVE STRENGTH: AT THE TIME OF DELIVERY TO THE WORK SITE, THE AVERAGE COMPRESSIVE STRENGTH SHALL BE NOT LESS THAN 8,000 PSI WITH NO INDIVIDUAL UNIT LESS THAN 7,000 PSI.
2. ABSORPTION: THE AVERAGE ABSORPTION SHALL NOT BE GREATER THAN 5%, WITH NO INDIVIDUAL UNIT GREATER THAN 7%.
3. DURABILITY: THE MANUFACTURER SHALL SATISFY THE OWNER, EITHER BY PROVEN FIELD PERFORMANCE OR THE LABORATORY FREEZE-THAW TEST, THAT THE PAVING UNITS HAVE ADEQUATE DURABILITY IF THEY ARE TO BE SUBJECTED TO A FREEZE-THAW ENVIRONMENT.
A. PROVEN FIELD PERFORMANCE: SATISFACTORY FIELD PERFORMANCE IS INDICATED WHEN UNITS SIMILAR IN COMPOSITION, AND MADE WITH THE SAME MANUFACTURING PROCESS AS THOSE TO BE SUPPLIED TO THE OWNER, DO NOT EXHIBIT OBJECTIONABLE DETERIORATION AFTER AT LEAST 3 YEARS.
B. FREEZE-THAW TEST: WHEN TESTED IN ACCORDANCE WITH SECTION 8 OF ASTM C 67, SPECIMENS SHALL HAVE NO BREAKAGE AND NOT GREATER THAN 1.0 PERCENT LOSS IN DRY WEIGHT OF ANY INDIVIDUAL UNIT WHEN SUBJECTED TO 50 CYCLES OF FREEZING AND THAWING. THIS TEST SHALL BE CONDUCTED NOT MORE THAN 12 MONTHS PRIOR TO DELIVERY OF UNITS.
C. ABRASION RESISTANCE: WHEN TESTED IN ACCORDANCE WITH ASTM C 418, "ABRASION RESISTANCE OF CONCRETE BY SANDBLASTING", SPECIMENS SHALL NOT HAVE GREATER VOLUME LOSS THAN 15 CUBIC CENTIMETERS PER 50 SQUARE CENTIMETERS. THE AVERAGE LOSS SHALL NOT EXCEED 3 MILLIMETERS.
2.2 BITUMINOUS ASPHALT SETTING BED
A. A MIXTURE OF 93% FINE AGGREGATE AND 7% ASPHALT CEMENT. APPROXIMATELY RATIO PER TON: 145 POUNDS ASPHALT TO 1855 POUNDS SAND.
B. MATERIALS SHALL BE:
1. ASPHALT CEMENT: ASTM D 3381 VISCOSITY GRADE AC-10 OR AC-20.
2. FINE AGGREGATE: CLEAN HARD SAND CLEAN FROM ADHERENT COATINGS, CLAY ALKALI SALTS AND ORGANIC MATTER. UNIFORMLY GRADED FROM COARSE TO FINE WITH 100% PASSING NO. 4 SIEVE.
2.3 NEOPRENE MODIFIED ASPHALT ADHESIVE
A. MATERIALS SHALL BE:
1. MASTIC (ASPHALT ADHESIVE):
A. SOLIDS (BASE) - 75% +/- 1% POUNDS/GALLON - 8 TO 8.5 POUNDS
B. SOLVENT - VARSOL (OVER 100 DEGREES F FLASH).
2. BASE (2% NEOPRENE, 10% FIBERS, 88% ASPHALT):
A. MELTING POINT - ASTM D 36, 200 DEGREES F MINIMUM.
B. PENETRATION - 77 DEGREES F 100 GRAM LOAD 5 SECOND (.1 MM) - 23 TO 27
C. DUCTILITY - ASTM D 173-44 AT 25 DEGREES C 5 CMS PER MINUTE - 125 CM MINIMUM.
2.4 JOINT FILLER
A. USE CLEAN CONCRETE SAND OR MASON SAND.

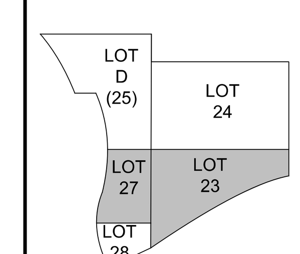
PART 3 - EXECUTION
3.1 INSTALLATION
A. ASPHALT CONCRETE SETTING BED
1. AFTER CONCRETE HAS CURED, PREPARE THE ASPHALT CONCRETE SETTING BED.
2. PLACE 3/4 INCH DEEP CONTROL BARS DIRECTLY OVER THE CONCRETE BASE.
3. SPREAD HOT ASPHALT SETTING BED MIXTURE EVENLY OVER ENTIRE AREA TO BE PAVED. SCREED TO A THICKNESS THAT WILL PRODUCE A NOMINAL THICKNESS OF 3/4 INCHES (MINIMUM) AFTER COMPACTION. THICKNESS SHALL BE IN ACCORDANCE WITH PLAN DETAILS.
4. COMPACT ASPHALT SETTING BED WHILE STILL HOT WITH A POWER ROLLER AND POWER PLATE COMPACTOR WHERE NECESSARY. THE THICKNESS SHALL BE ADJUSTED TO INSURE THAT THE PAVERS, WHEN INSTALLED, WILL BE THE REQUIRED FINISHED GRADE.
5. OBTAIN THE ENGINEER'S INSPECTION AND ACCEPTANCE OF THE FINISHED SETTING BED PRIOR TO INSTALLATION OF ASPHALT ADHESIVE.
6. APPLY COATING OF THE 2% NEOPRENE MODIFIED ASPHALT ADHESIVE BY SQUEEGEEING OR TROWELING OVER TOP SURFACE OF ASPHALT SETTING BED SO AS TO PRODUCE ADEQUATE BONDING WITH THE PAVERS. IF TROWELED, THE TROWEL SHALL BE SERRATED WITH SERRATIONS NOT TO EXCEED 1/16 OF AN INCH.
7. PROTECT SURFACE FROM DAMAGE UNTIL PAVERS ARE INSTALLED.
B.CONCRETE PAVERS
1. LAY PAVER UNITS IN LOCATIONS INDICATED ON THE DRAWINGS. MAINTAIN DESIRED PATTERN AND PROVIDE UNIFORM HAND-TIGHT JOINTS BETWEEN UNITS.
2. CUT PAVING UNITS WITH BLOCK SPLITTER OR MOTOR DRIVEN SAW EQUIPMENT DESIGNED TO CUT MASONRY WITH CLEAN, SHARP UNCHIPPED EDGES. CUT UNITS AS REQUIRED TO PROVIDE THE PATTERN SHOWN AND TO FIT ADJOINING WORK NEATLY. USE FULL UNITS, OR STANDARD EDGE UNITS, WITHOUT CUTTING WHEREVER POSSIBLE. WHERE CUTTING IS REQUIRED, USE THE LARGEST SIZE UNITS POSSIBLE. AVOID THE USE OF SMALL PIECES OF PAVERS OR LARGE JOINT SPACES. PROVIDE CUT UNITS WITH STRAIGHT EVEN CUT SURFACES, FREE FROM CRACKS OR CHI
3. FINISH SURFACE SHALL BE TRUE TO GRADE AND SHALL NOT VARY BY MORE THAN * INCH WHEN TESTED WITH A 10 FOOT STRAIGHTEDGE AT ANY LOCATION ON THE SURFACE. CONCRETE UNIT PAVING SHALL BE FLUSH WITH ADJACENT PAVEMENT OR CURB. AREAS OF FINISH PAVING ON WHICH WATER STANDS OR WHICH ARE EXCESSIVELY UNEVEN SHALL BE RECONSTRUCTED AND BROUGHT TO CORRECT LINE AND GRADE.
4. SWEEP SAND INTO JOINTS AND SPRAY LIGHTLY WITH WATER. REPEAT UNTIL ALL JOINTS ARE COMPACTED AND FILLED.
C.CLEANING: REMOVE AND REPLACE CONCRETE PAVING UNITS WHICH ARE BROKEN, CHIPPED, STAINED, OR OTHERWISE DAMAGED. PROVIDE NEW MATCHING UNITS, INSTALL AS SPECIFIED AND ELIMINATE EVIDENCE OF REPLACEMENT. EFFLORESCENCE SHALL BE REMOVED WITH WATER AND A STIFF BROOM AND A CLEANER IF LESS ABRASIVE METHODS ARE NOT SUCCESSFUL. REMOVE EFFLORESCENCE AFTER INSTALLATION.
D. SEALING: AFTER CLEANING, APPLY SEALER.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE
525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISSUES		
1	07/19/16	DESIGN DEVELOPMENT - PRICING PACKAGE
2	12/12/16	BID AND PERMIT SET
3	5/10/2019	DESIGN DEVELOPMENT
4	8/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	12/12/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
7	1/31/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



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ENGINEER: S.C.S.
CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
GENERAL NOTES

JOB NUMBER 57334
DATE 2/21/2020
DRAWING NUMBER C200

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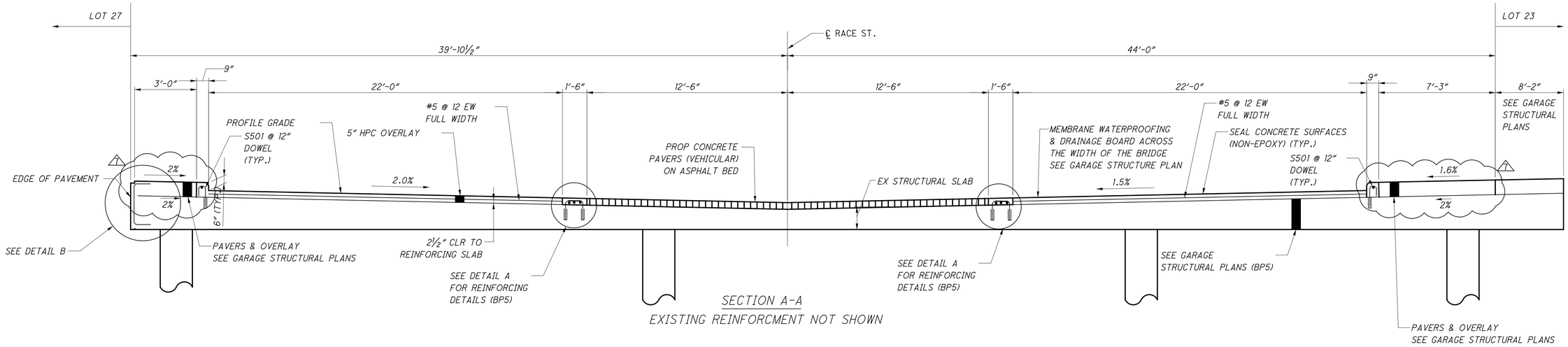
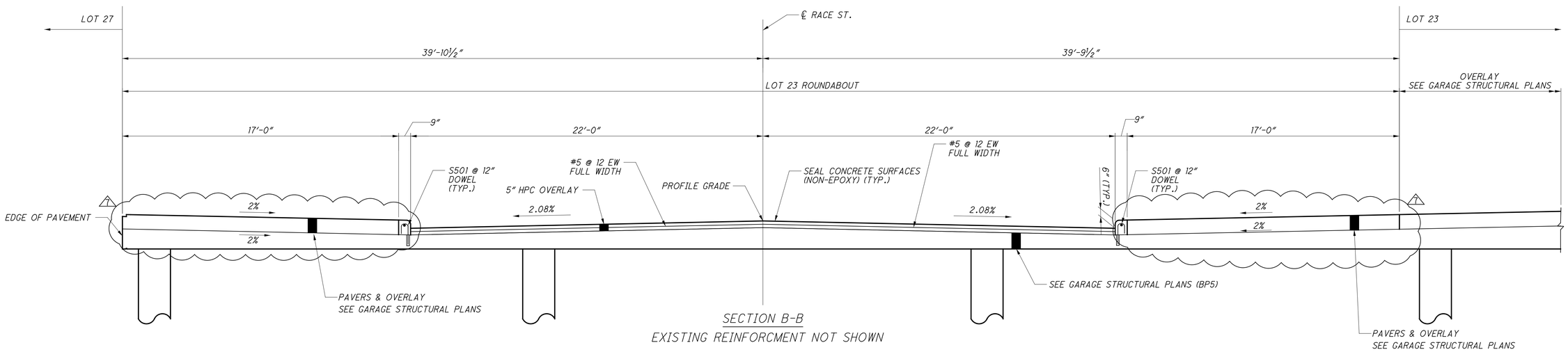


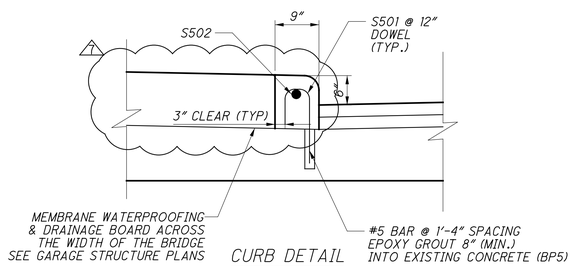
SECTION A-A

EXISTING REINFORCMENT NOT SHOWN



SECTION B-B

EXISTING REINFORCMENT NOT SHOWN



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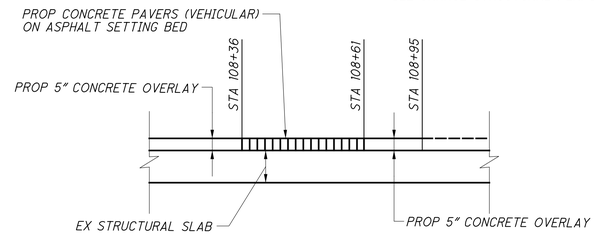

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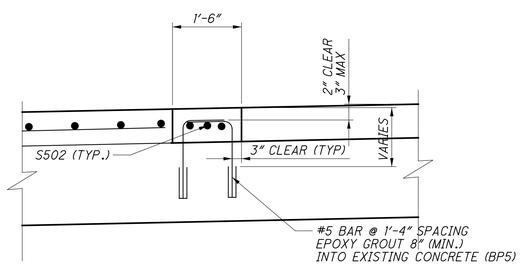
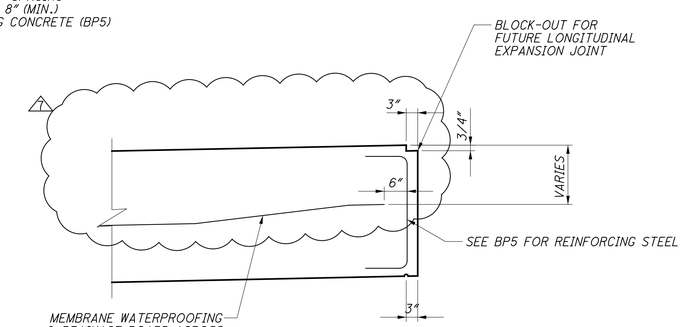


DETAIL A



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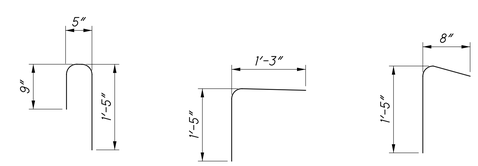

S501 S502 S503

NOTES

SEE SHEET C400 FOR SECTION A-A AND B-B LOCATION

LEGEND

EW = EACH WAY

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE

525 Vine Street, Suite 1300
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ISSUES

1	07/19/18	DESIGN DEVELOPMENT - PRICING PACKAGE
2	12/13/18	BID PACKAGE #1
3	5/10/2019	DESIGN DEVELOPMENT
4	8/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	10/15/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
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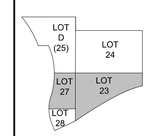
8	2/21/2020	BID PACKAGE #6



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ENGINEER: S.C.S.
CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

TYPICAL SECTIONS

JOB NUMBER 57334 DATE 2/21/2020

DRAWING NUMBER C300

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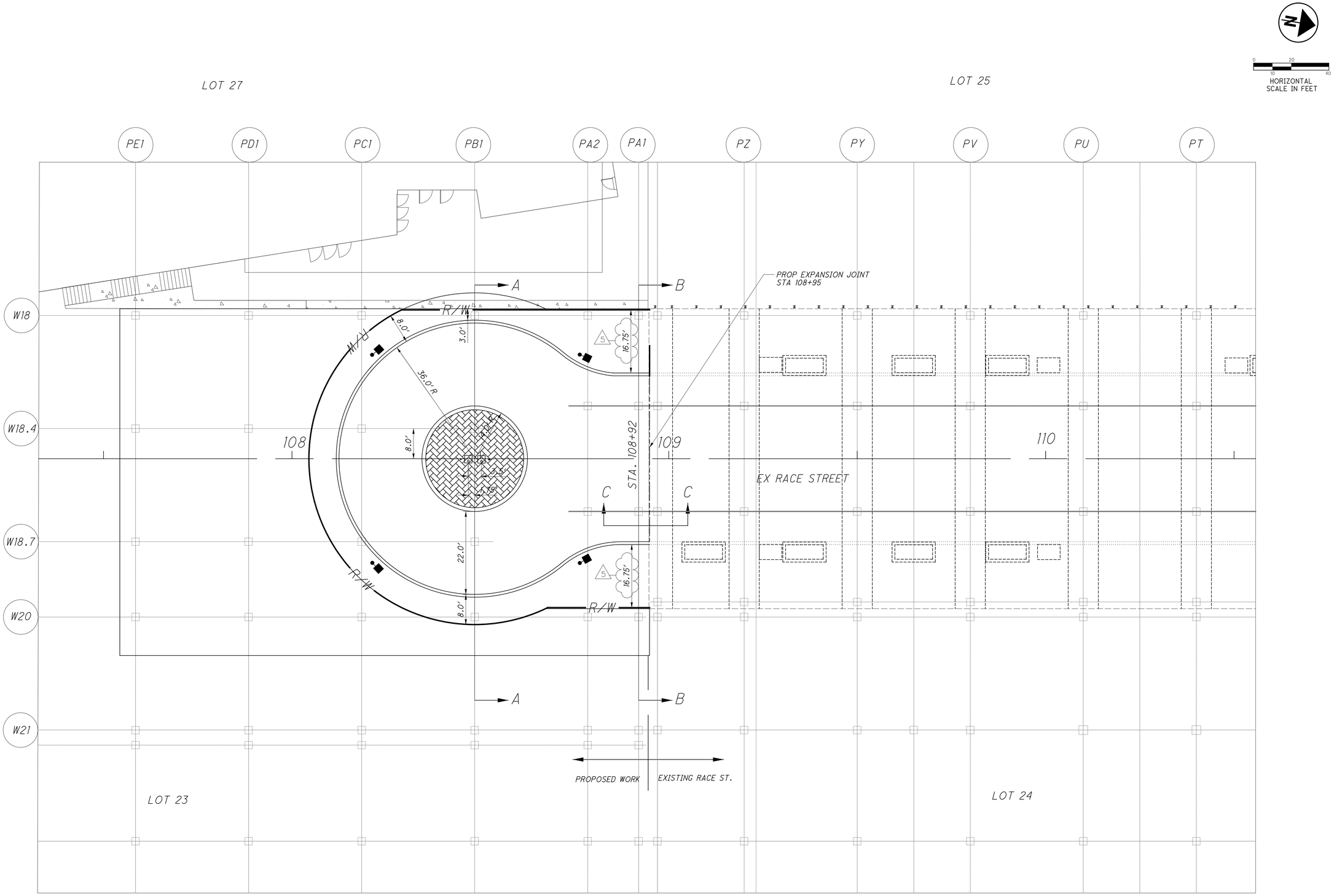

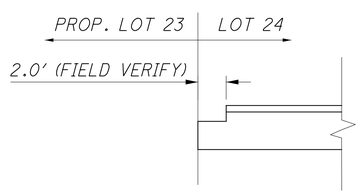

SECTION C-C
EX. JOINT CONDITION

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE
525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISSUES		
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4	8/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	12/12/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
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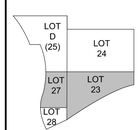
8	2/21/2020	BID PACKAGE #6



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ENGINEER: S.C.S.
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THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
CUL-DE-SAC DETAILS

JOB NUMBER 57334
DATE 2/21/2020
DRAWING NUMBER C400

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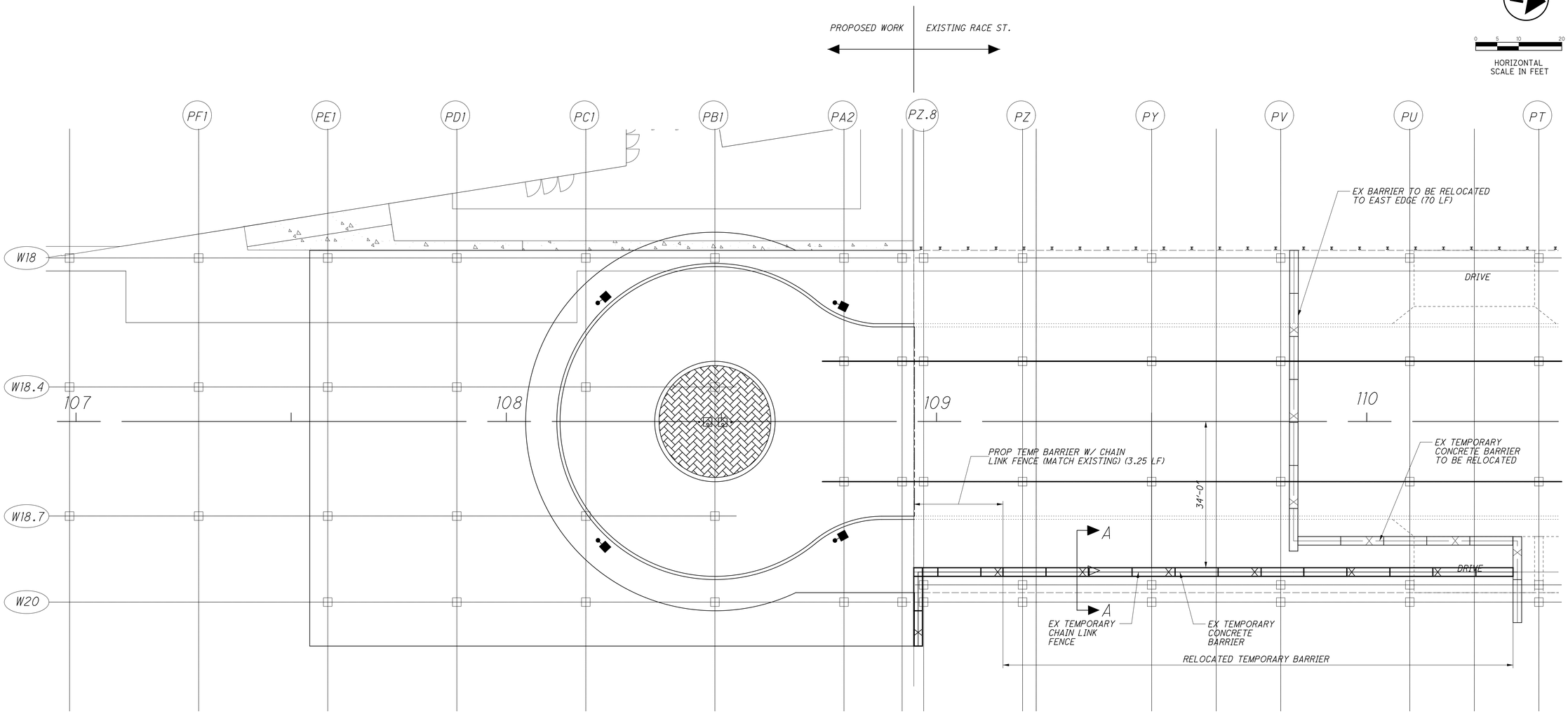
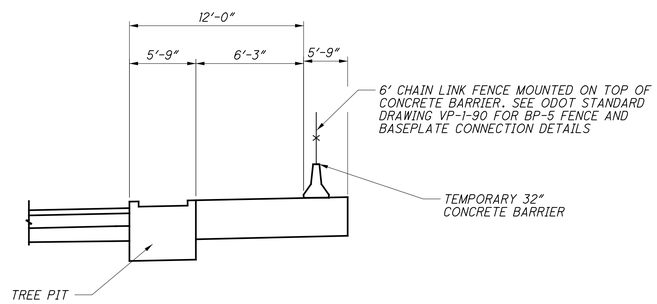


PLAN



SECTION A-A

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE
525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISSUES		
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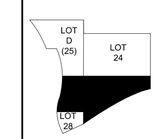
7	1/31/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



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ENGINEER: S.C.S.
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THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
TEMPORARY RAILING PLAN

JOB NUMBER 57334
DATE 2/21/2020
DRAWING NUMBER C401

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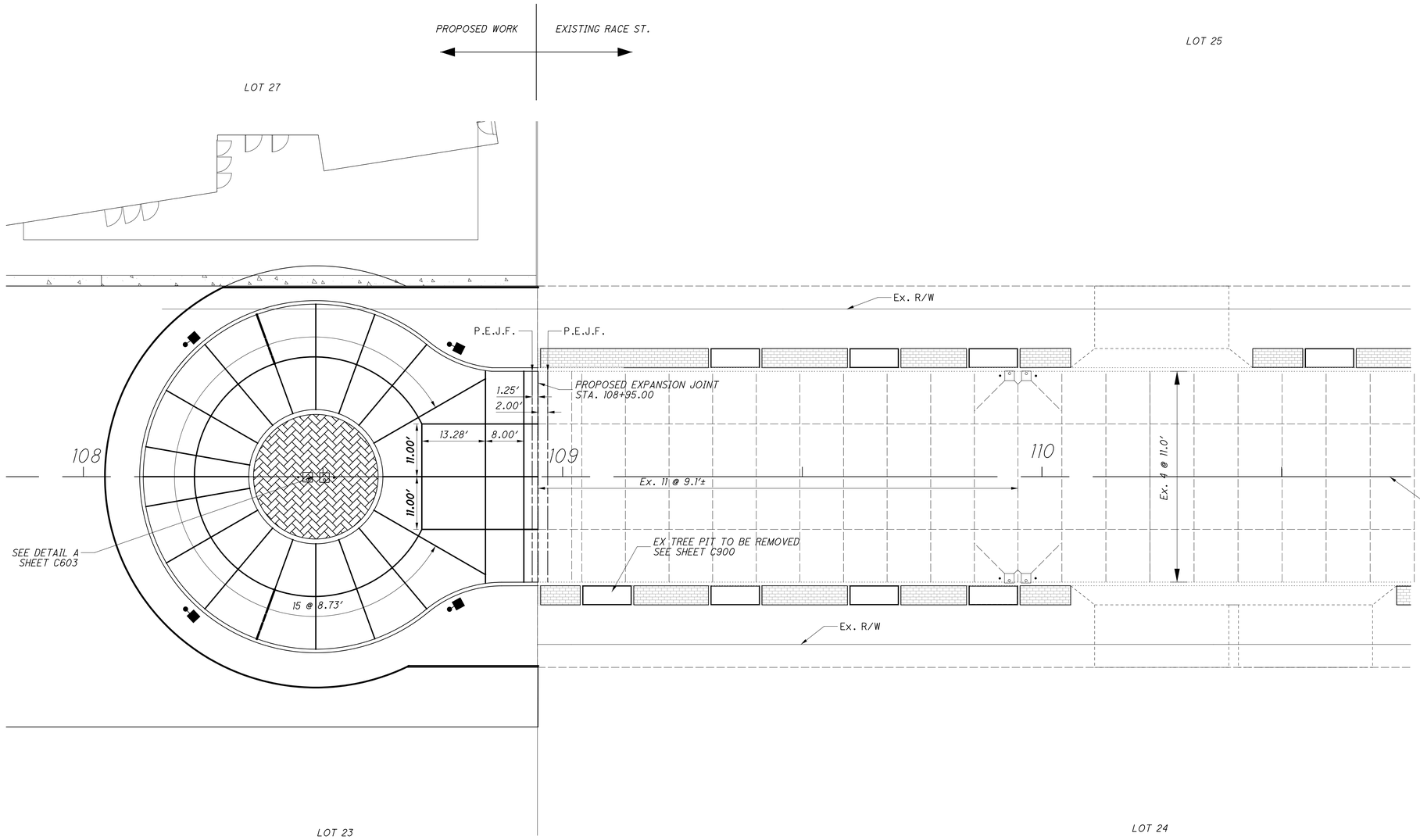

HORIZONTAL SCALE IN FEET

NOTES:

1. ALL JOINTS, EXCEPT EXPANSION JOINTS, SHALL BE HAND TOOLED.

2. SEE SHEET C603, FOR STORM DETAILS.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE

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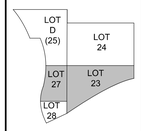
7	1/31/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



DRAWN BY: S.N.G.
ENGINEER: S.C.S.
CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

JOINT LAYOUT PLAN

JOB NUMBER 57334
DATE 2/21/2020
DRAWING NUMBER C500

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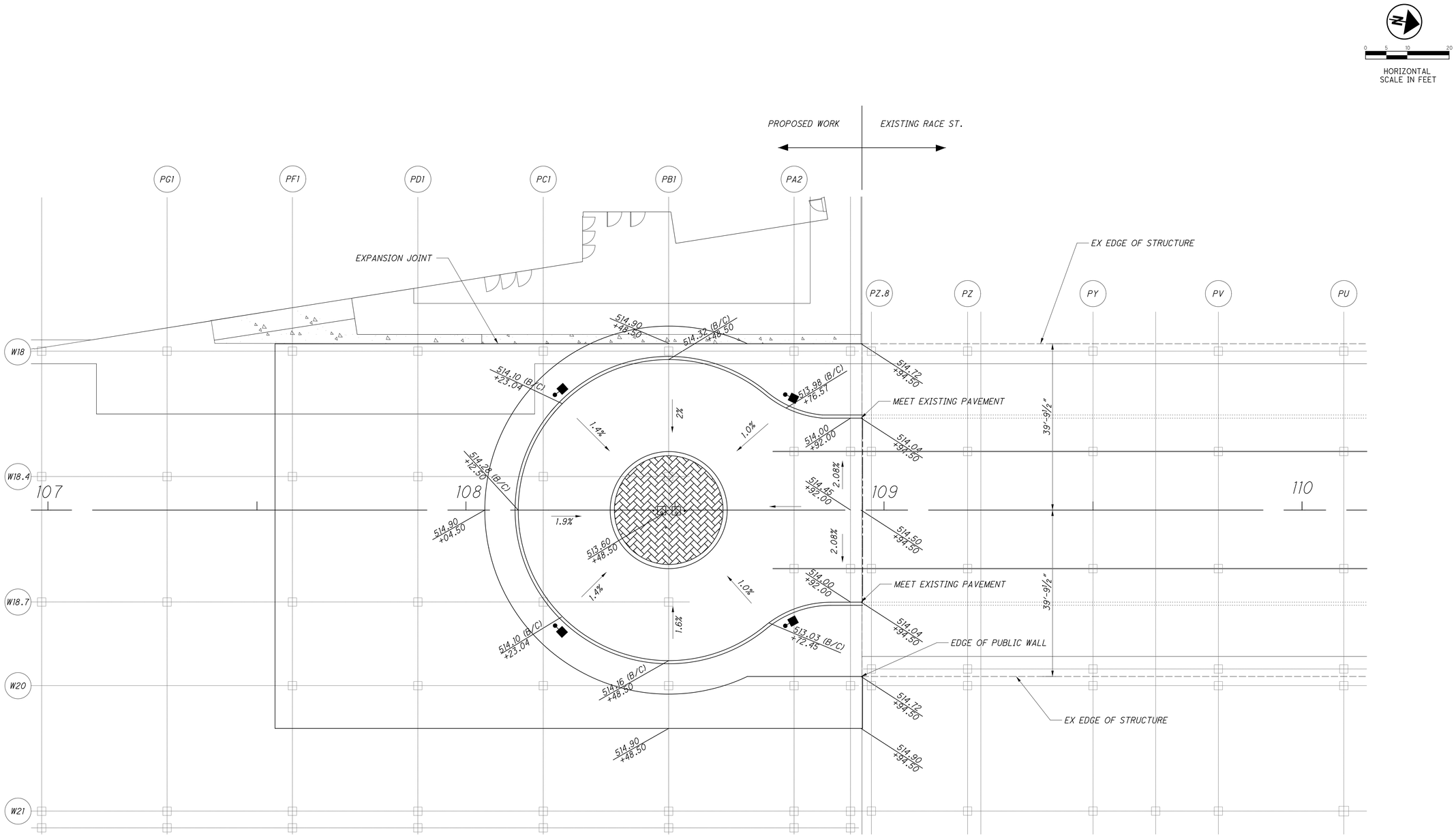


TOP OF OVERLAY ELEVATION DIAGRAM

B/C = BOTTOM OF FACE OF CURB

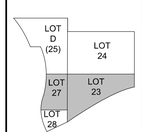
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE

525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISSUES		
1	07/19/16	DESIGN DEVELOPMENT - PRICING PACKAGE
2	12/12/16	BID AND PERMIT SET
3	5/10/2019	DESIGN DEVELOPMENT
4	8/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	12/12/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
7	1/31/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



DRAWN BY: S.N.G.

ENGINEER: S.C.S.

CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

OVERLAY SLAB ELEVATIONS

JOB NUMBER 57334

DATE 2/21/2020

DRAWING NUMBER C501

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GENERAL NOTES:

MATERIALS: ALL ANGLE SHAPES SHALL BE ASTM A709, GRADE 50, ALL OTHER STEEL PARTS OF THE JOINT ASSEMBLY SHALL BE ASTM A709, GRADE 36. THE FINISHED STEEL ASSEMBLY SHALL BE METALIZED. THE THICKNESS OF THE COATING SHALL BE 6-8 MILS. THE WIRE USED FOR THE METALLIZING SHALL CONSIST OF 85% ZINC AND 15% ALUMINUM. SURFACE PREPARATION AND APPLICATION SHALL CONFORM TO SSPC COATING SYSTEM GUIDE NO. 2300, "GUIDE FOR THERMAL SPRAY METALLIC COATING SYSTEMS". A SEALER AS PER SSPC PAINT SPECIFICATION NO. 27, SHALL BE APPLIED TO METALLIZED SURFACES THAT WILL BE IN CONTACT WITH CONCRETE. THERE IS NO NEED TO METALIZE THE SURFACES OF THE RETAINERS TO WHICH THE GLANDS WILL BE BONDED. THESE SURFACES MAY BE MASKED TO PREVENT THE BUILDUP OF OVER-SPRAY WITHIN THE RETAINER GROOVE.

THE PREFORMED STRIP SEAL GLAND SHALL BE EXTRUDED POLYCHLOROPRENE MATERIAL MEETING THE REQUIREMENTS OF ASTM D2628. DUE TO THE CONFIGURATION OF THE STRIP SEAL, THE RECOVERY TEST IS NOT APPLICABLE. PHYSICAL PROPERITIES SHALL MEET THE REQUIREMENTS SPECIFIED IN TABLE "E" ON THIS SHEET.

EACH LOT OF STRIP SEAL GLANDS SHALL BE TESTED BY THE MANUFACTURER OR AN ACCREDITED LABORATORY TO ENSURE COMPLIANCE WITH THESE PROVISIONS. TWO CERTIFIED COPIES OF THE QUALIFICATION TEST DATA INDICATING THAT THE TESTED MATERIALS COMPLY WITH THESE PROVISIONS SHALL BE SUBMITTED TO THE OWNER.

THE STEEL RETAINER AND POLYCHLOROPRENE GLAND SHALL BE SUPPLIED BY THE SAME MANUFACTURER AND SHALL BE DESIGNED TO FUNCTION AS AN INTEGRAL UNIT.

TABLE E
(PHYSICAL PROPERTIES OF SEAL ELEMENT)

PROPERTY	REQUIREMENT	ASTM METHOD
TENSILE STRENGTH, MIN. PSI	2000	D412
ELONGATION @ BREAK, MIN. PERCENT	250	D412
HARDNESS, TYPE A DUROMETER, POINTS	60 ± 5	D2240 (MODIFIED)
OVEN AGING, 70 HR @ 212° F TENSILE STRENGTH, LOSS, MAX. ELONGATION, LOSS, MAX. HARDNESS, TYPE A DUROMETER, POINTS CHANGE	 20 PERCENT 20 PERCENT 0 TO +10	D573 D2240 (MODIFIED)
OIL SWELL, ASTM OIL 3 70 HR @ 212° F, WEIGHT CHANGE MAX	45 PERCENT	D471
OZONE RESISTANCE 20 PERCENT STRAIN, 300 PPHM IN AIR, 70 HR @ 104° F (WIPED WITH TOLUENE TO REMOVE SURFACE CONTAMINATION)	NO CRACKS	D1149
LOW TEMPERTURE STIFFENING 7 DAYS @ 14° F HARDNESS, TYPE A DUROMETER, POINTS CHANGE COMPRESSION SET, 70 HR @ 212° F MAX.	 0 TO +15 40 PERCENT	D2240 D2240 (MODIFIED) D395 METHOD B

LUBRICANT-ADHESIVE USED TO INSTALL THE PREFORMED STRIP SEALS SHALL BE A ONE PART MOISTURE CURING POLYURETHANE COMPOUND, MEETING THE REQUIREMENTS OF ASTM D4070, AND AS SPECIFIED BY THE SEAL GLAND MANUFACTURER. IT SHALL HAVE A SUITABLE CONSISTENCY AT THE TEMPERATURE AT WHICH THE SEALS ARE INSTALLED AND SHALL BE COMPATIBLE WITH THE SEALS AND THE STEEL RETAINERS.

SPLICE OR JOINT IN SEAL GLAND: SEAL GLANDS FOR BRIDGE DECK JOINTS SHALL BE FURNISHED IN ONE CONTINUOUS PIECE UNLESS SHOP FABRICATED SPLICES ARE SHOWN ON THE PLANS OR APPROVED BY THE OWNER. FIELD SPLICING SHALL NOT BE PERMITTED.

COMPLETED SPLICES SHALL HAVE NO OFFSETS ON EXTERIOR SURFACES, AND AFTER INSTALLATION, THERE SHALL BE NO EVIDENCE OF BOND FAILURE AT THE SPLICES.

FOR OTHER THAN STRAIGHT SEALS WITHOUT INTERMEDIATE SPLICES, SEAL GLANDS SHALL BE SHOP FABRICATED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, SHOP DRAWING DIMENSIONS FOR EXISTING JOINTS OR FOR JOINTS WHICH ARE BEING MODIFIED SHALL BE BASED ON FIELD MEASUREMENTS PROVIDED BY THE CONTRACTOR.

SUBMITTAL FOR VULCANIZATION PROCEDURE IS REQUIRED PRIOR TO FIELD SPLICE OF EXISTING SEAL GLANDS.

PREPARATION FOR INSTALLATION: TO AVOID THE SUBSEQUENT CONTAMINATION OF THE PREPARED SURFACES, ALL SURFACES OF ELASTOMERIC STRIP SEAL GLANDS SHALL BE CLEANED WITH METHYL ETHYL KETONE (MEK), TOLUENE (T) OR ANOTHER APPROVED SOLVENT USING CLEAN DISPOSABLE CLOTHS.

NO MORE THAN 24 HOURS BEFORE APPLICATION OF THE LUBRICANT ADHESIVE, ONLY THE SURFACES OF THE STEEL RETAINER TO WHICH ADHESIVE IS APPLIED SHALL BE CLEANED TO SSPC VISUAL STANDARD SP-6.

INSTALLATION: IMMEDIATELY PRIOR TO APPLICATION OF LUBRICANT-ADHESIVE, BONDING SURFACES SHALL BE CLEAN, DRY AND WARMER THAN 45 DEGREES F. AND THEY SHALL BE MAINTAINED AT OR ABOVE THIS TEMPERATURE UNTIL THE ADHESIVE HAS CURED. LUBRICANT-ADHESIVE SHALL BE APPLIED LIBERALLY TO BOTH STEEL AND ELASTOMERIC BONDING SURFACES USING A STIFF BRUSH IF NECESSARY TO ACHIEVE A COMPLETE AND RELATIVELY UNIFORM COATING. THE BULBED EDGES OF THE ELASTOMERIC SEAL SHALL BE INSERTED INTO THE RETAINER GROOVES. AFTER INSTALLATION, EXCESS LUBRICANT-ADHESIVE SHALL BE REMOVED FROM THE EXPOSED SEAL SURFACES.

SEAL GLANDS SHALL BE INSTALLED WITH EQUIPMENT DESIGNED OR SPECIFICALLY ADAPTED FOR THE INSTALLATION OF ELASTOMERIC JOINT SEAL GLANDS. THIS EQUIPMENT SHALL NOT ELONGATE THE SEAL GLAND OR CAUSE STRUCTURAL DAMAGE TO THE COMPLETED INSTALLATION.

REPAIRS SHALL BE MADE PRIOR TO THE INSTALLATION OF THE SEAL. METALIZED SURFACES DAMAGED DURING FABRICATION SHALL BE REPAIRED BY REBLASTING AND METALIZING AS PER SSPC GUIDE 23.00. METALIZED SURFACES DAMAGED DURING SHIPMENT OR FIELD WELDING SHALL BE REPAIRED AS PER ASTM A 780-93a, ANNEX A1, REPAIR USING ZINC BASED ALLOYS. THIS FIELD PROCESS REQUIRES REMOVAL OF CONTAMINATES FROM THE SURFACE, PREHEATING THE SURFACE TO 600° F AND APPLICATION OF ZINC COATING BY EITHER RUBBING A PURE ZINC STICK OR SPRINKLING ZINC POWDER ON THE PREHEATED SURFACE. THE ZINC COATING THICKNESS SHALL BE THE SAME AS THAT SPECIFIED FOR THE METALIZING.

JOINTS IN END DAM ARMOR: TRANSVERSE JOINTS IN ARMOR SHALL HAVE COMPLETE PENETRATION BUTT WELDS. BUTT WELDS IN CONTACT WITH THE STEEL RETAINERS SHALL BE GROUND FLUSH.

THE MINIMUM LENGTH OF RETAINER SHALL BE 6'-0" BETWEEN JOINTS UNLESS OTHERWISE SHOWN.

JOINTS IN RETAINERS SHALL HAVE WATERTIGHT, PARTIAL PENETRATION BUTT WELDS COMPLETELY AROUND THE OUTER PERIPHERY OF THE ABUTTING SURFACES. WELDS IN CONTACT WITH THE SEAL GLAND AND/OR JOINT ARMOR SHALL BE GROUND SMOOTH.

CONCRETE UNDER JOINT ARMOR SHALL BE HAND PLACED AND VIBRATED TO ACHIEVE SOLID FILLING.

TEMPORARY SUPPORTS SHALL BE INSTALLED THAT ARE CAPABLE OF SUPPORTING SHIPPING AND ERECTION FORCES WITHOUT DAMAGE TO THE EXPANSION DEVICE. FABRICATOR DESIGNED AND INSTALLED TEMPORARY SUPPORTS HALL BE CAPABLE OF ADJUSTMENT FOR SETTING THE EXPANSION DEVICE IN THE FIELD AND SHALL BE INSTALLED AT THE FABRICATION SHOP AFTER FABRICATION AND COATING IS COMPLETED.

COVER PLATE SHALL BE NONSKID (CHECKERED) PLATES FOR SIDEWALKS.

CONSTRUCTION PROCEDURE

1. NOT MORE THAN FOUR HOURS PRIOR TO THE DAY'S PEAK AMBIENT TEMPERATURE, SET EXPANSION JOINT WIDTH TO DIMENSION "A" ON DIMENSION TABLE OF SHEET 27.
2. LOOSEN ANY TEMPORARY JOINT ARMOR BOLTS AFTER INITIAL SET OF CONCRETE, PREFERABLY NOT LATER THAN TWO HOURS AFTER CONCLUSION OF CONCRETE PLACEMENT.

EXISTING REINFORCING

CUT LINE REMOVE EXISTING CONCRETE & REPLACE TO LIMITS SHOWN. REINFORCING TO REMAIN IF IT DOES NOT CONFLICT WITH ANCHOR PLATE. APPLY SIKADUR 32 HI-MODBONDING AGENT PER MANUFACTURERS REQUIREMENTS.

STAINLESS STEEL GUTTER

ALL STEEL TO BE AISI 300 OR 400 SERIES STAINLESS STEEL.

MATERIAL WORKMANSHIP SHALL BE IN ACCORDANCE WITH ODOT-CMS-2013 & SUPPLEMENTAL SPECS.

DIMENSIONS FIELD VERIFICATION BY CONTRACTOR.

FIELD TRIMMING MAY BE REQUIRED BASED ON THE DIMENSIONS PROVIDED.

STEEL RETAINER REQUIREMENTS:

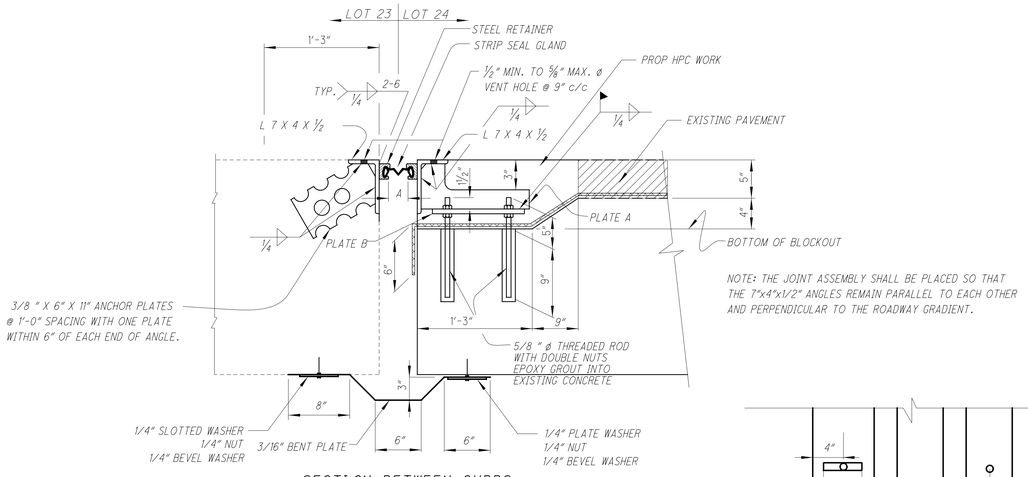
AT JOINT UPTURNS, THE USE OF SPLIT REAINERS MAY BE NECESSARY TO ENSURE GOOD SEAL GLAND INSTALLATION. WHEN THE SPLIT RETAINER IS USED, THE DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE PROPOSED STEEL RETAINER SHALL CONFORM TO THE DIMENSIONS SHOWN. THE RETAINERS SHALL BE PRODUCED AS A SOLID SHAPE EXTRUSION, A HOT ROLLED SOLID SHAPE OR SOLID SHAPE MACHINED FROM A SOLID BAR OF STEEL. STEEL RETAINERS MANUFACTURED BY THE BENDING OF A PLATE OR WELDING OF PIECES TOGETHER ARE NOT ACCEPTABLE. THE INTERNAL DIMENSIONS OF THE STEEL RETAINER SHALL MATCH THE MANUFACTURER'S REQUIREMENTS FOR POSITIVE ANCHORAGE FOR THE GLAND.

ANY DEFECTS IN THE STEEL RETAINER OR THE ACTUAL EXPANSION JOINT THAT COULD CAUSE DAMAGE TO THE GLAND SHALL BE CORRECTED BEFORE THE GLAND IS INSTALLED.

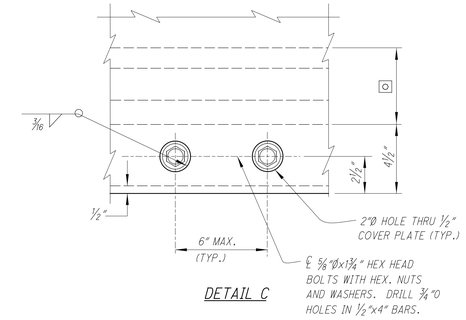
FIELD MEASURE AND VERIFICATION:

FIELD MEASURE AND VERIFICATION OF EXPANSION JOINT AND UTILITY CUT OUTS IS REQUIRED PRIOR TO MANUFACTURE OF EXPANSION JOINT.

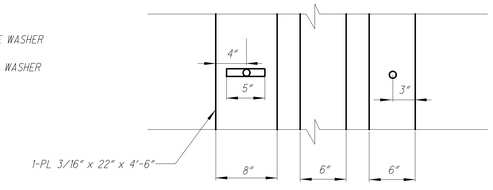


SECTION BETWEEN CURBS

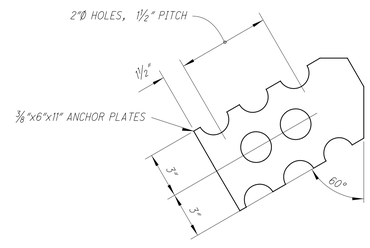
NOTE: THE JOINT ASSEMBLY SHALL BE PLACED SO THAT THE 7"x4"x1/2" ANGLES REMAIN PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE ROADWAY GRADIENT.



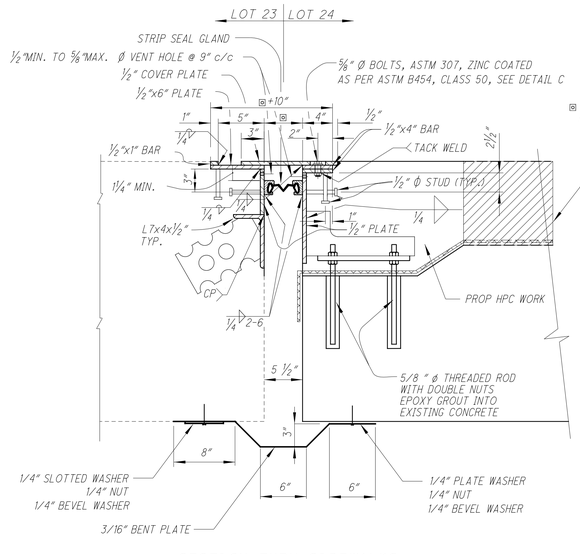
DETAIL C



GUTTER PLAN VIEW

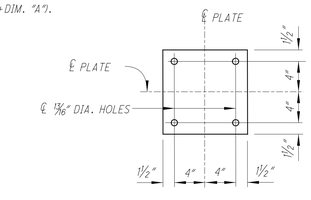


ANCHOR PLATE DETAIL



SECTION THRU SIDEWALKS

⊠ - THIS DIMENSION IS THE SUM OF (2 X STEEL RETAINER WIDTH + DIM. "A").



PLAN OF PLATE "B"

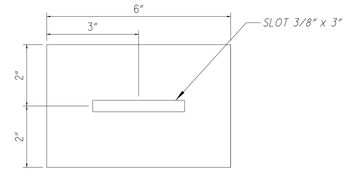
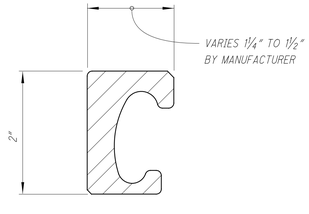
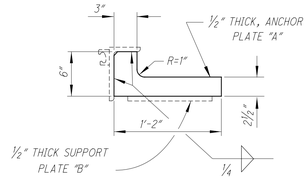


PLATE WASHERS



RETAINER DETAIL



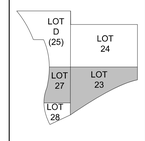
DETAIL OF PLATE "A"

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

BURGESS & NIPLE
525 Vine Street, Suite 1300
Cincinnati, OH 45202

ISSUES

ISSUES		
1	07/19/16	DESIGN DEVELOPMENT - PRICING PACKAGE
2	11/15/18	DESIGN DEVELOPMENT
3	5/10/2019	DESIGN DEVELOPMENT
4	8/22/2019	BID PACKAGE #5
5	9/24/2019	ADDENDUM NO. 2
6	12/12/2019	DESIGN DEVELOPMENT - BID PACKAGE #6
7	1/17/2020	BID PACKAGE #6 - SCOPING SET
8	2/21/2020	BID PACKAGE #6



DRAWN BY: S.N.G.
ENGINEER: S.C.S.
CHECKED BY: S.C.S.

THE BANKS PHASE 3B

BP6

LOT 23/27 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
JOINT DETAILS

JOB NUMBER 57334
DATE 2/21/2020
DRAWING NUMBER C700

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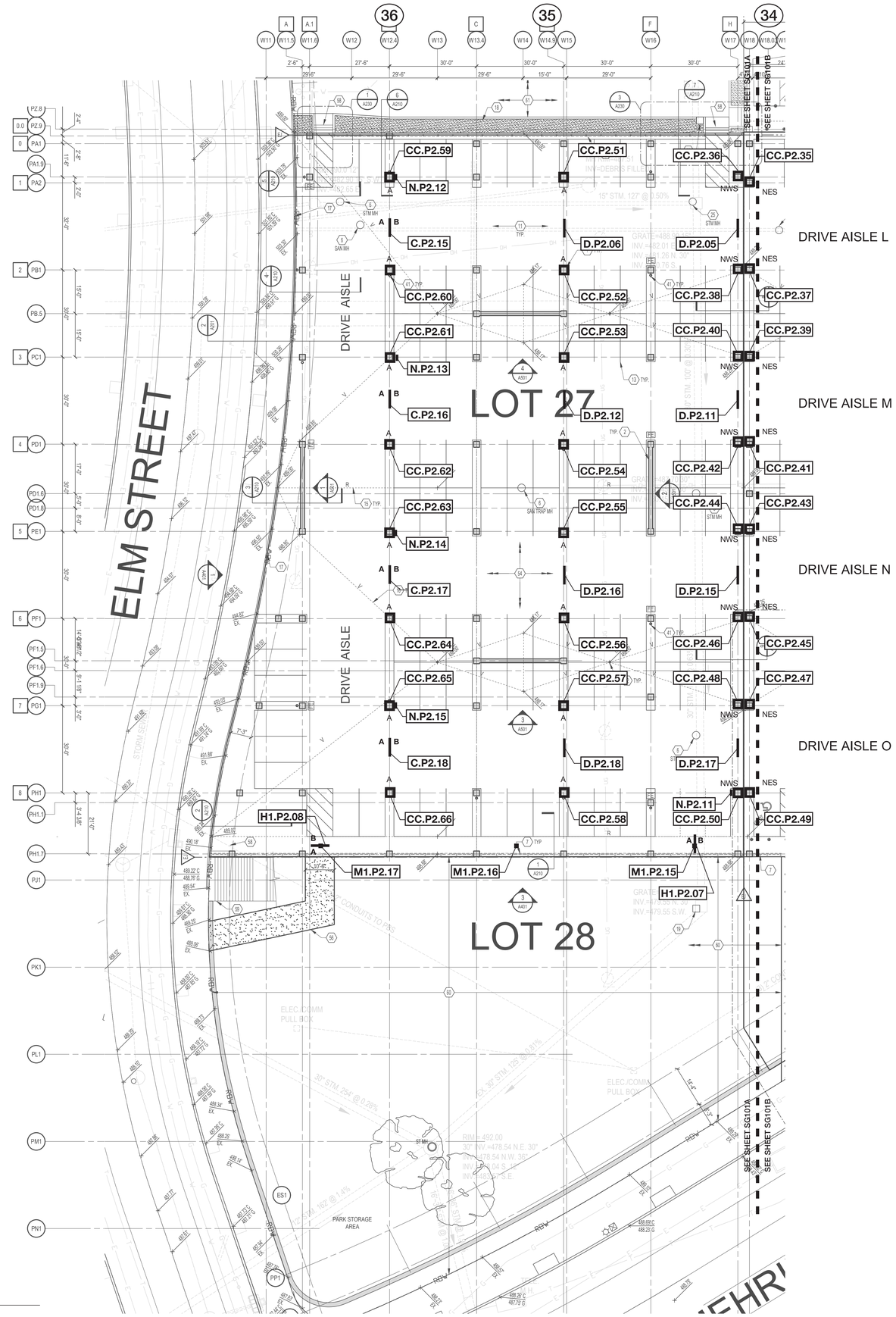

1 LOWER LEVEL (489) - P2 LEVEL - LOT 27 & 28
Scale: 1/16" = 1'-0"

LEGEND

A B C.P2.01
- Sign Type
- Level
- Sign Number
- Sign Face
- Sign Location

CC.P2.48
A, N, E, S, W
- Column face location of Type CC Sign Type:
  - A = All (4) Faces
  - N = North face
  - E = East face
  - S = South face
  - W = West face

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
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EUROPE
CH toll free 0800 559 017
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PRELIMINARY NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
1	2/21/2020	BID PACKAGE #6
2		
3		
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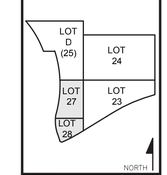


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

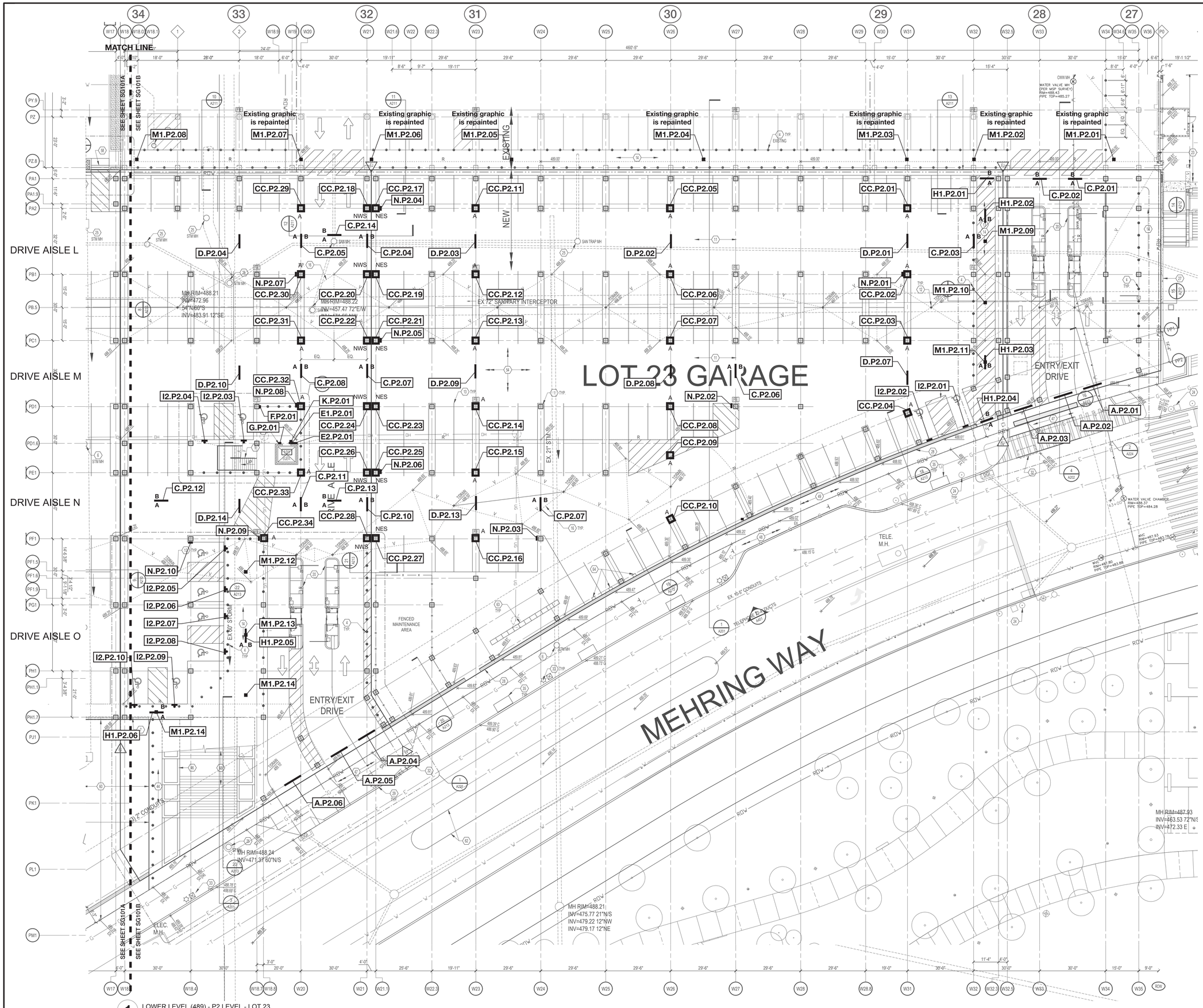
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
WAYFINDING SIGNAGE
LOWER LEVEL (489)
P2 LEVEL - LOT 27 & 28

JOB NUMBER: BANKS19018
DATE: 2/21/2020

DRAWING NUMBER
SG101A



1 LOWER LEVEL (489) - P2 LEVEL - LOT 23
Scale: 1/16" = 1'-0"

LEGEND

- Sign Type
- Level
- Sign Number
- A B C.P2.01 — Sign Face, Sign Location
- CC.P2.48 — A, N, E, S, W: Column face location of Type CC Sign Type:
  - A = All (4) Faces
  - N = North face
  - E = East face
  - S = South face
  - W = West face

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ISSUE	DATE	DESCRIPTION
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2		
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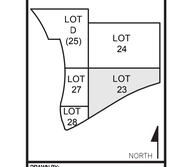


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

THE BANKS PHASE 3B

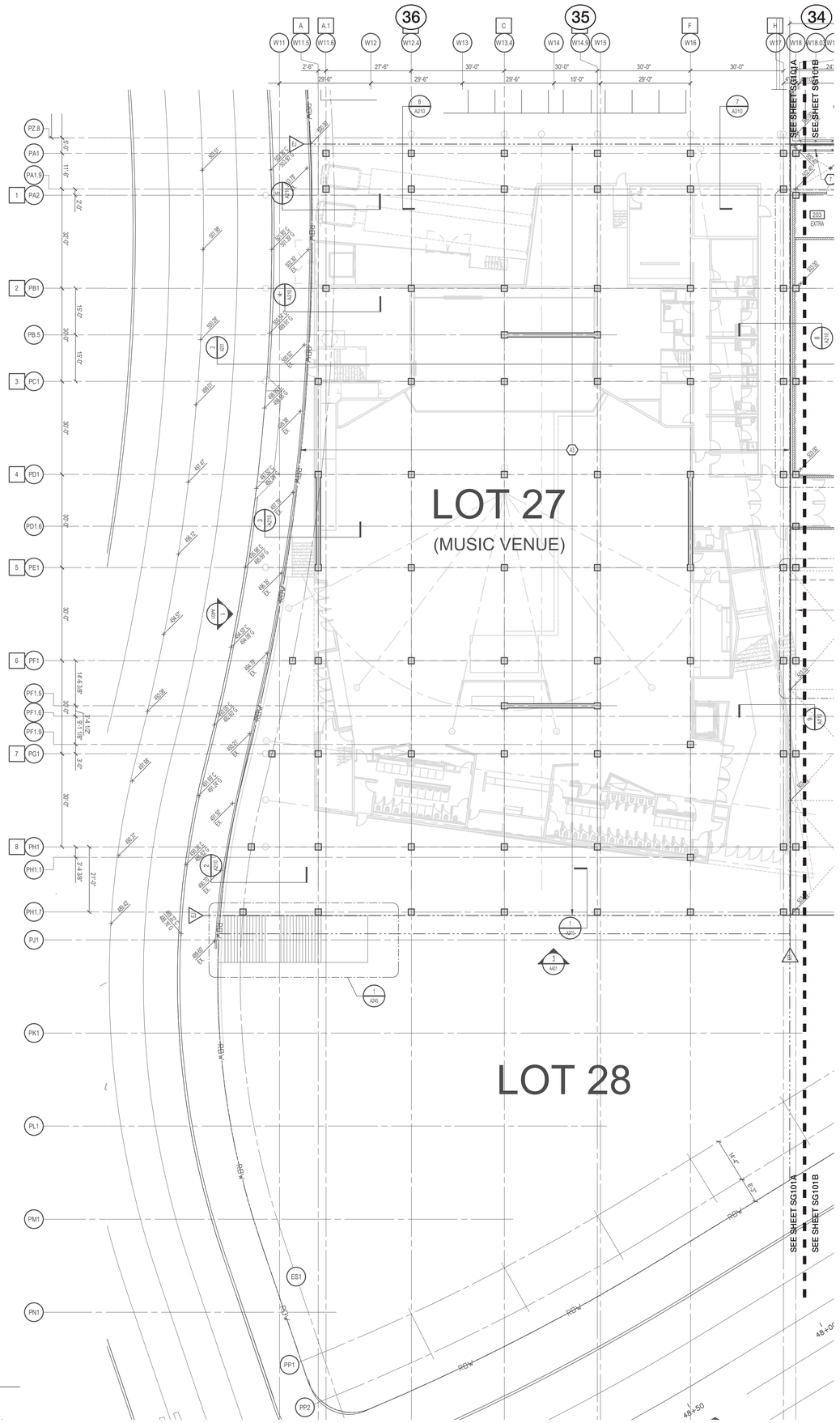
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: WAYFINDING SIGNAGE LOWER LEVEL (489) P2 LEVEL - LOT 23

JOB NUMBER: BANKS19018 DATE: 2/21/2020

DRAWING NUMBER: SG101B

THERE ARE NO SIGNS ON THIS SHEET



1 PARK LEVEL (503) - P1 LEVEL - LOT 27 & 28
Scale: 1/16" = 1'-0"

LEGEND

A B C.P2.01
- Sign Type
- Level
- Sign Number
- Sign Face
- Sign Location

CC.P2.48
- A, N, E, S, W
- Column face location of Type CC Sign Type:
  - A = All (4) Faces
  - N = North face
  - E = East face
  - S = South face
  - W = West face

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ISSUE.#3	2/21/2020	BID PACKAGE #6
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2		
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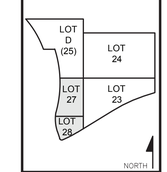


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

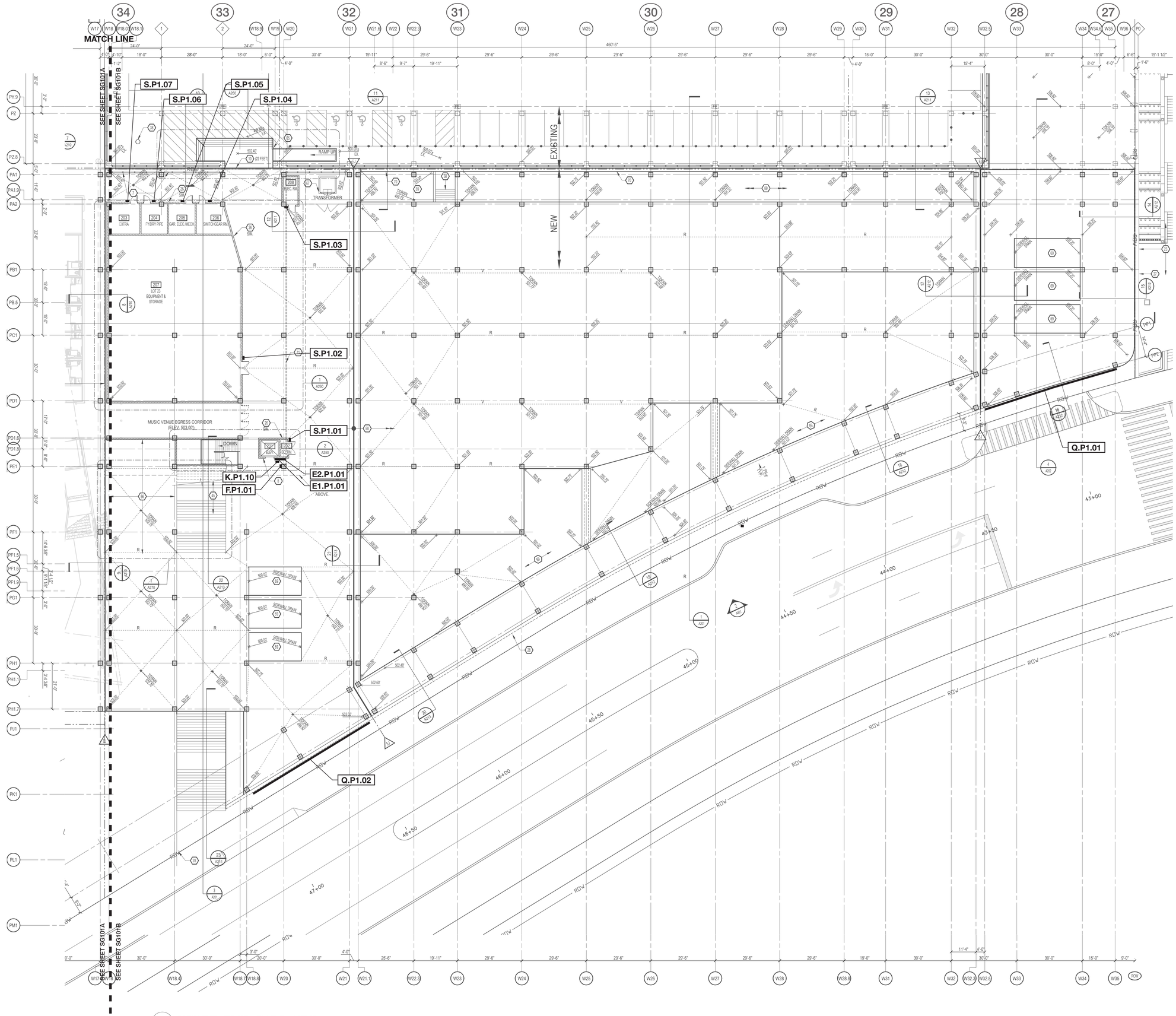
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
WAYFINDING SIGNAGE
PARK LEVEL (503)
P1 LEVEL - LOT 27 & 28

JOB NUMBER: BANKS19018
DATE: 2/21/2020

DRAWING NUMBER
SG102A



1 PARK LEVEL (503-507) - P1 LEVEL - LOT 23
Scale: 1/16" = 1'-0"

LEGEND

Sign Type
Level
Sign Number
A B C.P2.01
Sign Face
Sign Location

CC.P2.48
A, N, E, S, W
Column face location of Type CC Sign Type:
A = All (4) Faces
N = North face
E = East face
S = South face
W = West face

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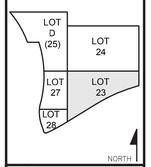


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

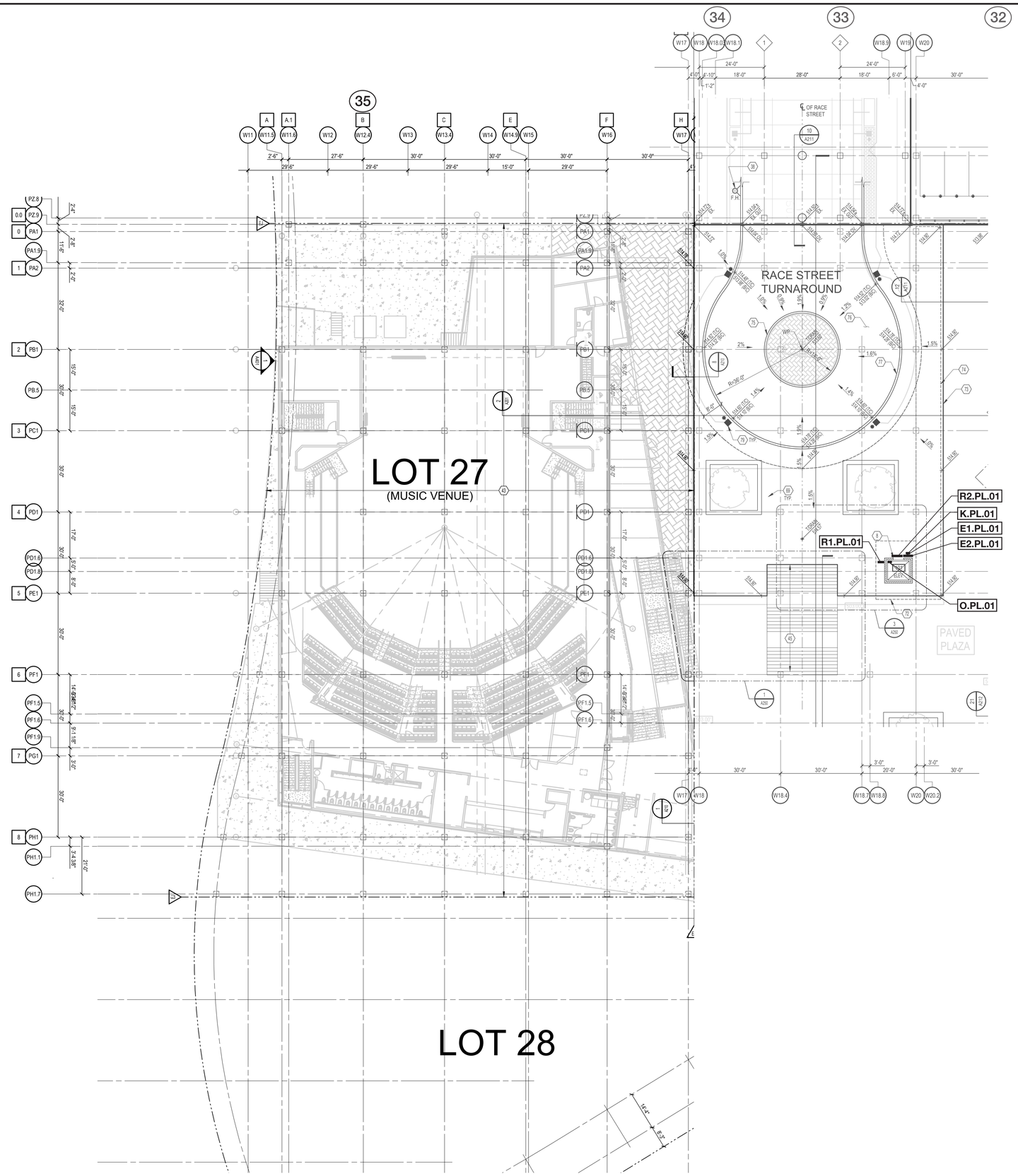
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
WAYFINDING SIGNAGE
PARK LEVEL (503-507)
P1 LEVEL - LOT 23

JOB NUMBER: BANKS19018
DATE: 2/21/2020

DRAWING NUMBER
SG102B



1 PODIUM LEVEL (515) - PL LEVEL
Scale: 1/16" = 1'-0"

LEGEND

Sign Type
Level
Sign Number
A B C.P2.01
Sign Face
Sign Location

CC.P2.48
A, N, E, S, W
Column face location of Type CC Sign Type:
A = All (4) Faces
N = North face
E = East face
S = South face
W = West face

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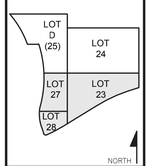

DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

THE BANKS
PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
WAYFINDING SIGNAGE
PODIUM LEVEL (515)
PL LEVEL

JOB NUMBER BANKS19018
DATE 2/21/2020

DRAWING NUMBER
SG103A

SECTION 101400

IDENTIFYING DEVICES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Informational and identification signage and graphics shown on Drawings.
B. Directional traffic signs, pedestrian signs and banners as noted on Drawings.

1.2 RELATED SECTIONS

A. Conditions of Contract and Division 01 specifications.

1.3 REFERENCES

A. Ohio Department of Transportation, Manual of Uniform Traffic Control Devices, for Streets and Highways.
B. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible to and Useable by Physically Handicapped People.

1.4 SUBMITTALS

A. Shop Drawings and Product Data: Indicate sign styles, lettering font, foreground and background colors, materials, mounting details, locations, and overall dimensions of each sign. Provide elevations and sections at not less than ¾" scale of typical members and other components. Show anchors, reinforcement, accessories, layout and installation details. Provide copy layout for each sign for approval before fabrication of signs.
B. Samples for Initial Selection: Provide a 4" x 4" sample for each material/color of the following. Samples must be approved prior to fabrication of Samples for Verification:
   a. Materials/colors specified on sheet SG207.
      i. Apply all except the translucent vinyl to a piece of 1/8" thick aluminum.
      ii. Apply translucent vinyl to a piece of 1/8" thick white acrylic suitable for sign type R1.
      iii. 1/8" thick white acrylic suitable for sign type R1.
      iv. Apply C8 and C9 to a piece of 1/8" thick white acrylic suitable for sign type A.
      v. 1/8" thick aluminum with a non directional brush and clear coat finish.
      vi. 3M ScotchCal vinyls with 3M Luster Overlaminate 8919 applied to 1/8" thick aluminum.
C. Samples for Verification: Prior to fabrication, submit one sample of each Sign Type, illustrating type, style, letter font, colors specified, finishes, surface texture and method of attachment. Samples shall be representative of the workmanship, materials and finish of all work and shall serve as the standard for acceptability. Approved samples will be returned for installation into the project.
   a. Sign type R2 to include a 12" section including the dimensional letters and vinyl letters associated with that section.
   b. Sign type R1 must include a working mockup for approval, unless the sign fabricator has already built and installed this sign type in a previous phase of the project.
D. Manufacturer's Installation Instructions [include installation template (if required) and information on attachment devices].
E. Manufacturer's recommendations for maintenance and cleaning requirements and procedures for sign surfaces and banners.

1.5 QUALITY ASSURANCE

A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum five years experience.
B. Installer: Company with minimum 3-5 years experience installing similar products on a minimum of 5 projects of equal or larger size. Engage an experienced Installer who is an authorized representative of the sign manufacturer.
C. A pre-installation conference shall be held at the site between the Contractor, Construction Manager, and Architect to review installation locations and to clarify any outstanding installation details.
D. Mock-ups: Following the pre-installation conference, the Contractor shall install two units of each Sign Type for review and approval by the Construction Manager and Architect, at locations selected at the pre-installation conference. Once mock-ups are reviewed and any required adjustments noted, the remaining signs shall be installed.

1.6 REGULATORY REQUIREMENTS

A. Conform to the Ohio Building Code, ANSI A117.1, and ADA.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, protect, and handle products under the provisions of the General Conditions.
B. Package signs in labeled groups.

1.8 WARRANTY

A. Provide fabricator's standard 1 year warranty covering defects in materials, installation, finish degradation, paint fading and chalking, and structural failures. The 3M ScotchCal vinyls with the 3M Luster Overlaminate 8919 to include the standard 6 year warranty. Refer to Section 014000, Article 1.6.

PART 2 PRODUCTS

2.1 GENERAL

A. All material shall be free of warpage, marks, dimples or any other defects impairing strength, durability and appearance.
B. Use new and clean materials, having structural properties sufficient to safely sustain or withstand stresses and strains to which materials and assembled work will be subjected.
C. Provide dialectic separation of all dissimilar metals which are in contact with one another.
D. All work shall be accurately and neatly fabricated, assembled and installed.
E. Shop fabricate, finish and assemble all signage.
F. Adhesives and sealants shall be used with recommendations by the manufacturer of the material(s) specified to be laminated, sealed or adhered. No adhesives shall be used that will fade, discolor, or delaminate, nor shall they change the color of or deteriorate the material(s) to which they are applied.
G. Provide all hardware necessary for fabrication and installation; finish to match adjacent surfaces.
H. Fabricator responsible for all sign and electrical engineering. Provide sufficient structural capacity will support 90mph wind loads as defined in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffice Signals, latest revisions. All calculations shall be prepared and stamped by a Professional Engineer registered in the State of Ohio.

2.2 SIGNS

A. For Sign Types A through R, refer to the typical details, schedules, specifications and locations on Drawings.
B. For Sign Types U through W:
   a. Sign Type U: Operational Signage.
      i. Size: Approx. 28" x 44".
      ii. Material: "Wind Master" sign stands, double-sided message on corrugated plastic, in free-standing frame.
      iii. Text: Provided by Owner / Operator.
      iv. Graphics: Provided by Owner / Operator.
      v. Quantity: 4 provided by Contractor and installed by Owner.
   b. Sign Type V: Operational Signage.
      i. Size: Approx. 12" x 16".
      ii. Material: Single-sided vinyl on 0.080" aluminum backing.
      iii. Text: Parking rate schedule information, TBD.
      iv. Graphics: TBD.
      v. Quantity: 8 provided and installed by Contractor.
      vi. Installation: Same as Sign Type J.
   c. Sign Type W: Operational Signage.
      i. Size: Approx. 12" x 12".
      ii. Material: Single-sided vinyl on 0.080" aluminum backing.
      iii. Text: Disclaimer signs regarding prohibition on guns, smoking, trespassing, solicitations; exact text TBD.
      iv. Graphics: None.
      v. Quantity: 12 provided and installed by Contractor.
      vi. Installation: Same as Sign Type J.
C. Acceptable Manufacturers:
   a. Site Enhancement Services, South Bend, Indiana, 888-276-7107.
   b. Harmon Sign, Toledo, Ohio, 800-338-9773.
   c. ABC Signs, Cincinnati, Ohio, 513-241-8884.
   d. Geograph Industries, Harrison, Ohio, 513-202-9200.
   e. Holthaus Lackner Signs, Cincinnati, Ohio, 513-861-0060.

2.3 ACCESSORIES

A. Delineator Cones: 42" high "grabber cones" with holes in top. Quantity 50 provided by Contractor and installed by Owner.
B. Sawhorse Barriers: White plastic with reflective markings on cross beams. Quantity 12 provided by Contractor, for Owner use.
C. Caution Tape: 1200 LF of yellow tape, furnished by Contractor, for Owner use.

PART 3 EXECUTION

3.1 EXAMINATION

A. Inspect areas prior to installation. Verify that substrate surfaces are ready to receive work. Do not install signs until surfaces are acceptable.
B. Verify field conditions to determine actual dimensions for sign types E, R2, Q and installation locations/requirements for sign type R1. Document within shop drawings for approval.
C. Verify field conditions and ascertain location of existing reinforcement, electrical items, and any other components that may be damaged prior to drilling, cutting, or removing of materials for installation of work. Notify Construction Manager immediately of irregularities or conflicts.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions. Manufacturer shall provide written installation instructions to Installer.
B. Install signage after substrates are finished and complete.
C. Install all signage square, plumb, at the height indicated, straight, true to line, accurately fitted and located, with provisions for other trades and with attachment devices as required for secure and rigid installation.
D. Take all necessary steps to assure that shop fabricated items will properly fit the field condition. If it does not, the item shall be returned to the shop for correction.
E. All attachment devices shall be type, size and spacing to suit conditions and as approved. Where bolts, screws, etc. are permitted to be exposed, they shall be stainless steel, or finished to match adjacent surfaces, and be vandal resistant.
F. Do all necessary drilling, tapping, cutting, shimming, or other preparations of sur rounding construction in the field accurately, neatly, and as necessary for attachment and support of signage, but obtain Architect and Construction Manager approval prior to such work.
G. At completion of the installation, clean signage surfaces in accordance with the manufacturer's instructions. Protect units from damage until Final Completion.

3.3 PHASING

A. Refer to Section 011100 – Summary of Work, and Section 013216 – Construction Schedule, for phasing and sequencing requirements (TBD).

END OF SECTION

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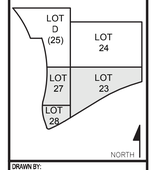

DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
101400 SPECIFICATIONS IDENTIFYING DEVICES

JOB NUMBER BANKS19018 DATE 2/21/2020

DRAWING NUMBER SG200

		MATERIALS / FINISHES				
COLORS	**COLOR NUMBER**	**MATTHEWS ACRYLIC POLYURETHANE (MAP)**	**MATTHEWS ACRYLIC POLYURETHANE (MAP) 75% TINT EQUIVALENT**	**REFLECTIVE VINYL**	**OPAQUE VINYL**	**TRANSLUCENT VINYL**
WHITE	**C1**	Matthews Acrylic Polyurethane High Gloss White Wonder MP32071		3M Scotchcal Reflective Graphic Film White 680-10	3M Scotchcal ElectroCut Opaque Graphic Film White 7725-10	
BLACK	**C2**	Matthews Acrylic Polyurethane High Gloss Black is Back MP59647			3M Scotchcal ElectroCut Opaque Graphic Film Black 7725-12	
ORANGE	**C3**	Matthews Acrylic Polyurethane High Gloss Matchbox Car Orange MP00190	Matthews Acrylic Polyurethane High Gloss Plastic Pumpkin MP00853		3M Scotchcal ElectroCut Opaque Graphic Film Bright Orange 7725-14	3M Scotchcal ElectroCut Translucent Graphic Film Tangerine 3630-84
GREEN	**C4**	Matthews Acrylic Polyurethane High Gloss Donegal Green MP14092	Matthews Acrylic Polyurethane High Gloss Green Vireo MP13552		3M Scotchcal ElectroCut Opaque Graphic Film Bright Green 7725-186	3M Scotchcal ElectroCut Translucent Graphic Film Vivid Green 3630-156
BLUE	**C5**	Matthews Acrylic Polyurethane High Gloss Sailboat Blue MP02160	Matthews Acrylic Polyurethane High Gloss Paddington Blue MP07327	3M Scotchcal Reflective Graphic Film Light Blue 680-76	3M Scotchcal ElectroCut Opaque Graphic Film Vivid Blue 7725-17	3M Scotchcal ElectroCut Translucent Graphic Film Bristol Blue 3630-167
RED	**C6**	Matthews Acrylic Polyurethane High Gloss Fiesta Red MP10338	Matthews Acrylic Polyurethane High Gloss Pandora MP08860	3M Scotchcal Reflective Graphic Film Red 680-72	3M Scotchcal ElectroCut Opaque Graphic Film Tomato Red 7725-13	3M Scotchcal ElectroCut Translucent Graphic Film Light Tomato Red 3630-43
CEILING MATCH	**C7**	Matthews Acrylic Polyurethane High Gloss Match Ceiling Color				
LIGHT SILVER	**C8**	Matthews Acrylic Polyurethane High Gloss Sterling Silver Metallic MP18071				
DARK SILVER	**C9**	Matthews Acrylic Polyurethane High Gloss Moly Grey Metallic MP18205				
PARKING GREEN	**C10**	Matthews Acrylic Polyurethane High Gloss Ophios Green MP15184				3M Scotchcal Translucent Graphic Film Vivid Green 3630-156

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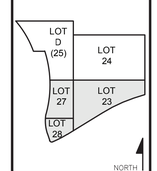


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

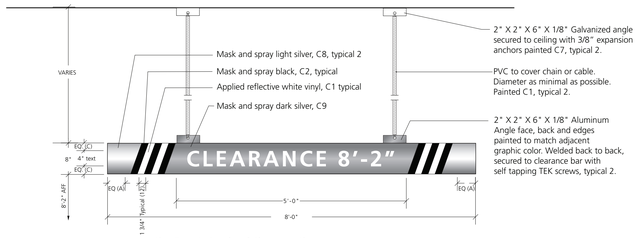
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

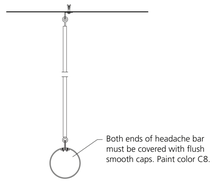
DRAWING TITLE
SIGNAGE COLOR SPECIFICATIONS

JOB NUMBER BANKS19018
DATE 2/21/2020

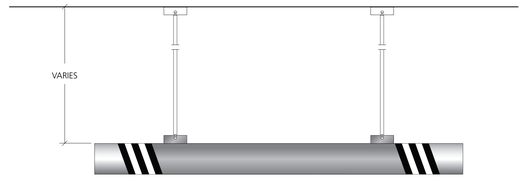
DRAWING NUMBER
SG201



1 **Sign Type A: Overhead Clearance Signage**
FRONT ELEVATION
Scale: 3/4" = 1'-0"

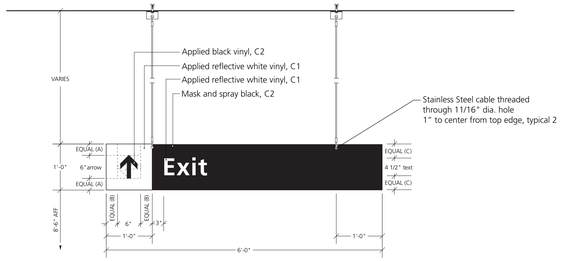


2 **Sign Type A: Overhead Clearance Signage**
SIDE VIEW SECTION
Scale: 3/4" = 1'-0"

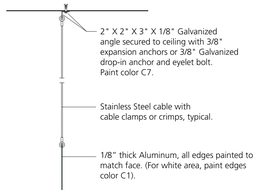


3 **Sign Type A: Overhead Clearance Signage**
BACK ELEVATION
Scale: 3/4" = 1'-0"

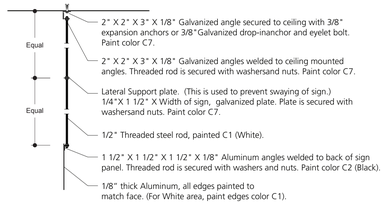
3a **Sign Type A: Overhead Clearance Signage**
PLAN VIEW DETAIL
Scale: 3/4" = 1'-0"



4 **Sign Type B: Overhead Vehicular Directional**
FRONT ELEVATION
Scale: 3/4" = 1'-0"

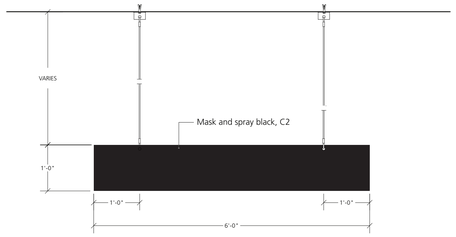


5 **Sign Type B: Overhead Vehicular Directional - Cable Support**
SIDE VIEW
Scale: 3/4" = 1'-0"

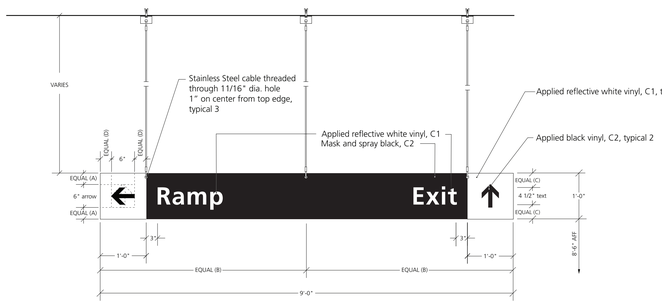


NOTE: This rod support detail is used for all hanging signs that are subject to high winds near the garage perimeter.

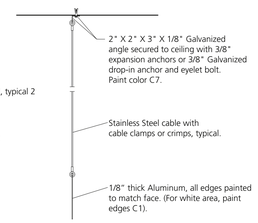
5A **Sign Type B: Overhead Vehicular Directional - Rod Support**
SIDE VIEW
Scale: 3/4" = 1'-0"



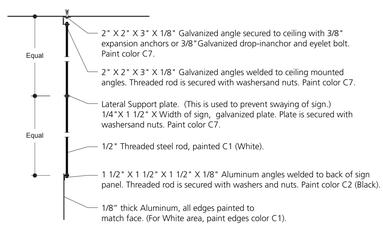
6 **Sign Type B: Overhead Vehicular Directional**
BACK ELEVATION, NO MESSAGES
Scale: 3/4" = 1'-0"



7 **Sign Type C: Overhead Vehicular Directional**
FRONT ELEVATION
Scale: 3/4" = 1'-0"

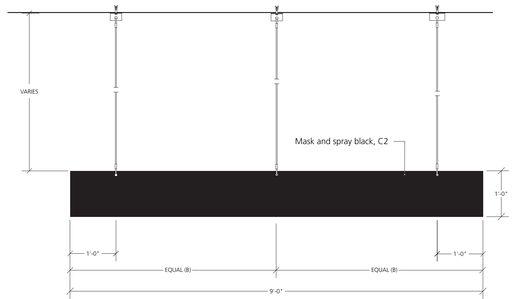


8 **Sign Type C: Overhead Vehicular Directional - Cable Support**
SIDE VIEW
Scale: 3/4" = 1'-0"



NOTE: This rod support detail is used for all hanging signs that are subject to high winds near the garage perimeter.

8A **Sign Type C: Overhead Vehicular Directional - Rod Support**
SIDE VIEW
Scale: 3/4" = 1'-0"



9 **Sign Type C: Overhead Vehicular Directional**
BACK ELEVATION, NO MESSAGES
Scale: 3/4" = 1'-0"

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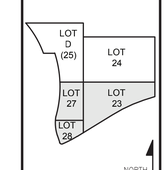


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

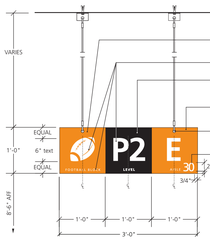
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SIGN TYPES A, B & C

JOB NUMBER BANKS19018 DATE 2/21/2020

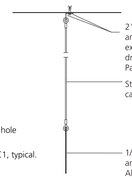
DRAWING NUMBER
SG202



Mask and spray all sides, C3 (Orange)
Applied white reflective vinyl, C1, typical
Mask and spray black, C2 (Black)
All edges are painted to match face.
Mask and spray color per message schedule
Stainless Steel cable threaded through 11/16" dia. hole 1" to center from top edge, typical 2
Gride Line number. Applied white reflective vinyl, C1, typical.
Typeface: Fruitiger 55 Roman, Tracking -100.

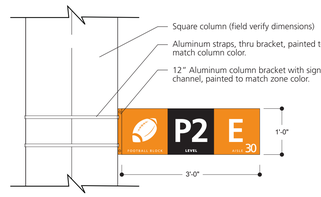
NOTE: This number was identified as sign type GL in previous garage signage packages.

1 **Sign Type D: Block / Level / Aisle ID**
FRONT AND BACK ELEVATION
Scale: 3/4" = 1'-0"



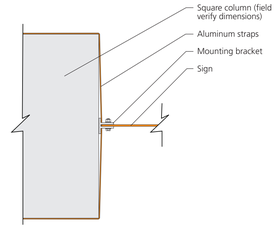
2" X 2" X 3" X 1/8" Galvanized angle secured to ceiling with 3/8" expansion anchors or 3/8" Galvanized drop-in anchor and eyelet bolt. Paint color C7, typical 2.
Stainless Steel cable with cable clamps or crimps, typical.
1/8" thick aluminum masked C3 (Orange) and sprayed in sections as indicated. All edges are painted to match face.

2a **Sign Type D: Block / Level / Aisle ID**
SIDE VIEW SECTION
Scale: 3/4" = 1'-0"



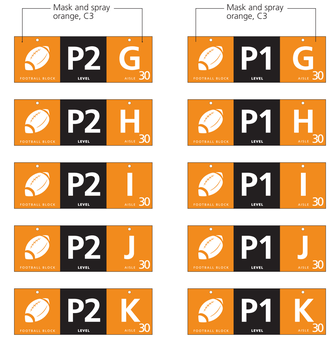
Square column (field verify dimensions)
Aluminum straps, thru bracket, painted to match column color.
12" Aluminum column bracket with sign channel, painted to match zone color.

2b **Sign Type D: Block / Level / Aisle ID**
COLUMN MOUNT ELEVATION
Scale: 3/4" = 1'-0"



Square column (field verify dimensions)
Aluminum straps
Mounting bracket
Sign

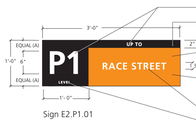
2c **Sign Type D: Block / Level / Aisle ID**
COLUMN MOUNT PLAN DETAIL
Scale: 3" = 1'-0"



3 **Sign Type D: Block / Level / Aisle ID**
SAMPLE LAYOUTS
Scale: 3/4" = 1'-0"

Mask and spray black, C2 (Black)
All edges are painted to match face.
Applied cut vinyl, color per message schedule
Applied white reflective vinyl, C1
1/8" aluminium panel, painted C3 (Orange) on all sides. Sign is stud mounted to wall surface and secured with VHB tape and silicone. Field verify wall surface and use appropiate fasteners / adhesives as required.

4 **Sign Type E1: Stair / Elevator / Lobby ID**
FRONT ELEVATION
Scale: 3/4" = 1'-0"



Sign E2.P1.01

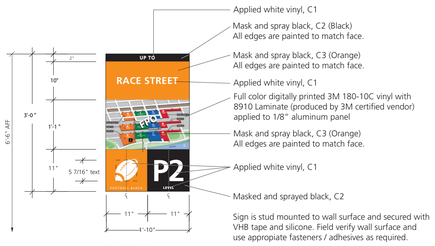
Applied white cut vinyl, C1
Mask and spray black, C2 (Black)
All edges are painted to match face.
Applied cut vinyl, see message schedule for color
1/8" aluminium panel, painted C3 (Orange) on all sides. Sign is stud mounted to wall surface and secured with VHB tape and silicone. Field verify wall surface and use appropiate fasteners / adhesives as required.
Applied white reflective cut vinyl, C1

5a **Sign Type E2: Stair / Elevator / Lobby ID**
FRONT ELEVATION
Scale: 3/4" = 1'-0"

Sign E2.PL.01

Sign E2.P2.01

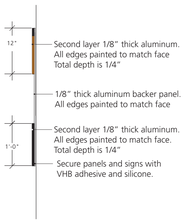
5b **Sign Type E2: Stair / Elevator / Lobby ID**
SAMPLE LAYOUTS
Scale: 3/4" = 1'-0"



Applied white vinyl, C1
Mask and spray black, C2 (Black)
All edges are painted to match face.
Mask and spray black, C3 (Orange)
All edges are painted to match face.
Applied white vinyl, C1
Full color digitally printed 3M 180-10C vinyl with 8910 Laminate (produced by 3M certified vendor) applied to 1/8" aluminum panel
Mask and spray black, C3 (Orange)
All edges are painted to match face.
Applied white vinyl, C1
Masked and sprayed black, C2
Sign is stud mounted to wall surface and secured with VHB tape and silicone. Field verify wall surface and use appropiate fasteners / adhesives as required.

Sign F.P2.01

6a **Sign Type F: Elevator Lobby Directory**
FRONT ELEVATION
Scale: 3/4" = 1'-0"



Second layer 1/8" thick aluminum. All edges painted to match face Total depth is 1/4"
1/8" thick aluminum backer panel. All edges painted to match face
Second layer 1/8" thick aluminum. All edges painted to match face. Total depth is 1/4"
Secure panels and signs with VHB adhesive and silicone.

7 **Sign Type F: Elevator Lobby Directory**
SIDE SECTION VIEW
Scale: 3/4" = 1'-0"

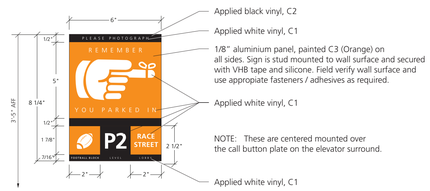
Applied white vinyl, C1
Applied black vinyl, C2
Apply to map.
Unique location per map

See message schedule for sticker arrow orientation

6b **Sign Type F: Elevator Lobby Directory**
YOU ARE HERE STICKER DETAIL
Scale: 1" = 1"

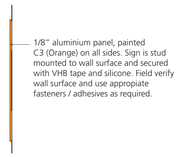
Sign F.P1.01

8 **Sign Type F: Elevator Lobby Directory**
SAMPLE LAYOUTS
Scale: 3/4" = 1'-0"



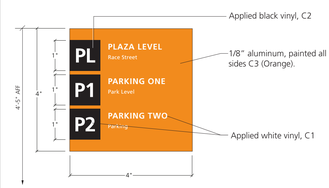
Applied black vinyl, C2
Applied white vinyl, C1
1/8" aluminium panel, painted C3 (Orange) on all sides. Sign is stud mounted to wall surface and secured with VHB tape and silicone. Field verify wall surface and use appropiate fasteners / adhesives as required.
Applied white vinyl, C1
NOTE: These are centered mounted over the call button plate on the elevator surround.
Applied white vinyl, C1

9 **Sign Type G: Reminder Sign**
FRONT ELEVATION
Scale: 3" = 1'-0"



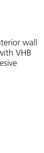
1/8" aluminium panel, painted C3 (Orange) on all sides. Sign is stud mounted to wall surface and secured with VHB tape and silicone. Field verify wall surface and use appropiate fasteners / adhesives as required.

10 **Sign Type G: Reminder Sign**
SIDE SECTION VIEW
Scale: 3" = 1'-0"



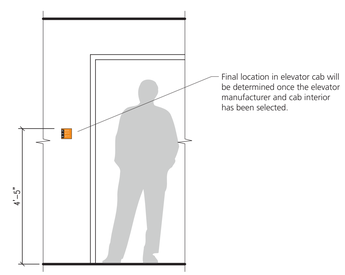
Applied black vinyl, C2
1/8" aluminum, painted all sides C3 (Orange).
Applied white vinyl, C1

12 **Sign Type O: Elevator Cabin Directory**
FRONT ELEVATION
Scale: 6" = 1"



Secure sign to interior wall of elevator cab with VHB and silicone adhesive

13 **Sign Type O: Elevator Cabin Directory**
SIDE SECTION VIEW
Scale: 6" = 1"



Final location in elevator cab will be determined once the elevator manufacturer and cab interior has been selected.

14 **Sign Type O: Elevator Cabin Directory**
FRONT ELEVATION
Scale: 1/2" = 1"

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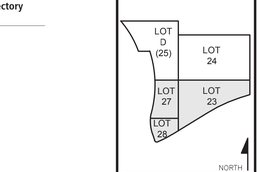
ISSUES		
1	2/21/2020	BID PACKAGE #6



DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

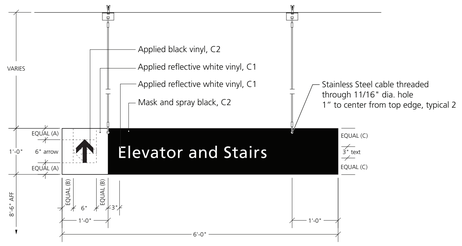
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

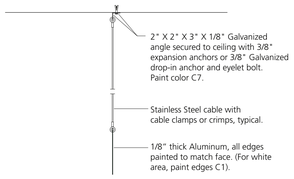
DRAWING TITLE
SIGN TYPES D, E, F, G & O

JOB NUMBER BANKS19018
DATE 2/21/2020

DRAWING NUMBER
SG203



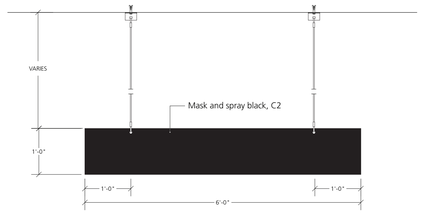
1 **Sign Type H1: Pedestrian Overhead Directional**
FRONT ELEVATION
Scale: 3/4" = 1'-0"



2 **Sign Type H1: Pedestrian Overhead Directional - Cable Support**
SIDE VIEW SECTION
Scale: 3/4" = 1'-0"

NOTE: This rod support detail is used for all hanging signs that are subject to high winds near the garage perimeter.

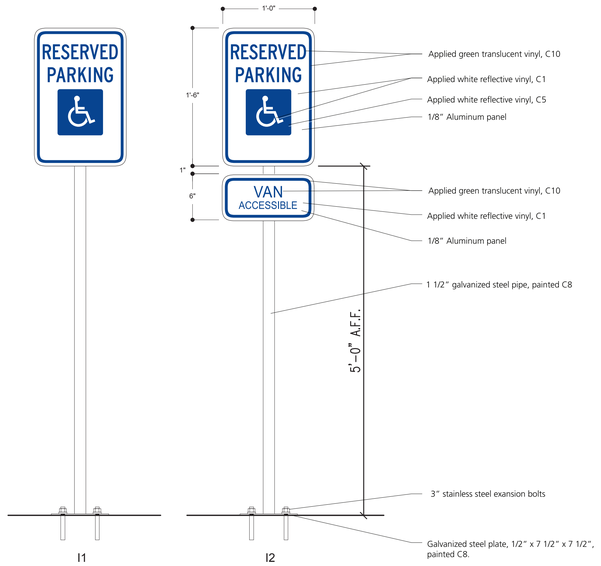
2A **Sign Type H1: Pedestrian Overhead Directional - Rod Support**
SIDE VIEW SECTION
Scale: 3/4" = 1'-0"



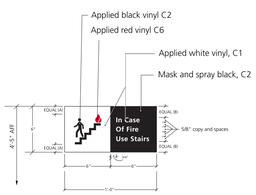
3 **Sign Type H1: Pedestrian Overhead Directional**
BACK ELEVATION
Scale: 3/4" = 1'-0"

DETAILS 4 & 5 ARE NOT USED IN THIS PACKAGE

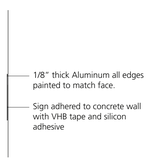
DETAILS 6 & 7 ARE NOT USED IN THIS PACKAGE



10 **Sign Type I: Accessible Parking**
FRONT ELEVATION
Scale: 1 1/2" = 1'-0"



8 **Sign Type K: In Case of Fire**
FRONT ELEVATION
Scale: 1 1/2" = 1'-0"



9 **Sign Type K: In Case of Fire**
SIDE VIEW SECTION
Scale: 1 1/2" = 1'-0"

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ISSUES

ISSUES		
1	2/21/2020	BID PACKAGE #6
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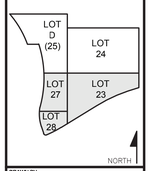


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

THE BANKS PHASE 3B

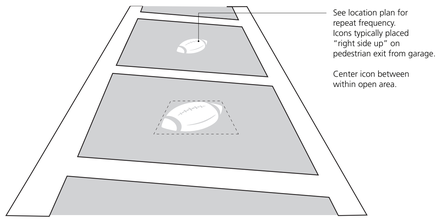
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SIGN TYPES H, I, J & K

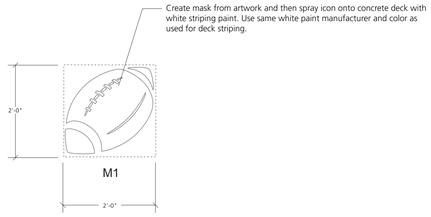
JOB NUMBER BANKS19018 DATE 2/21/2020

DRAWING NUMBER SG204

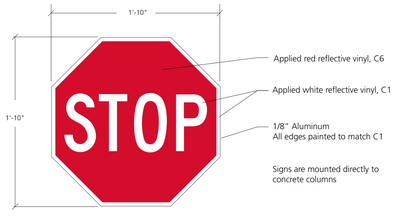
DETAILS 1-3 ARE NOT USED IN THIS PACKAGE



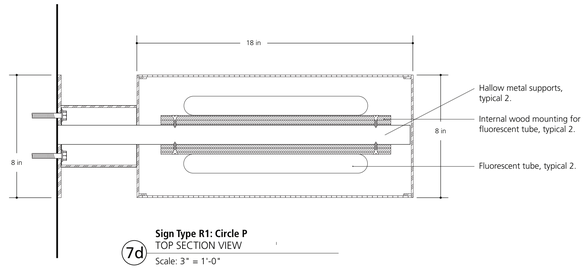
4 **Sign Type M: Pedestrian Walkway Graphics**
PERSPECTIVE VIEW
Scale: NTS



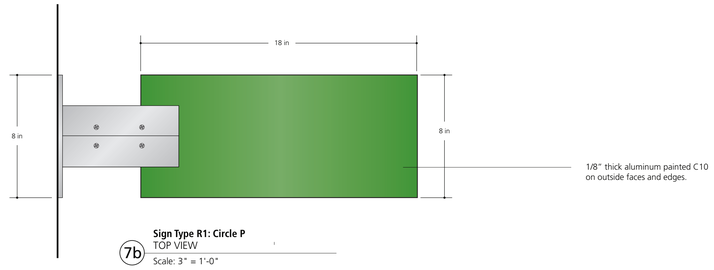
5 **Sign Type M: Pedestrian Walkway Graphics**
TYPICAL SIZED MASK FOR PAINTING
Scale: 3/4" = 1'-0"



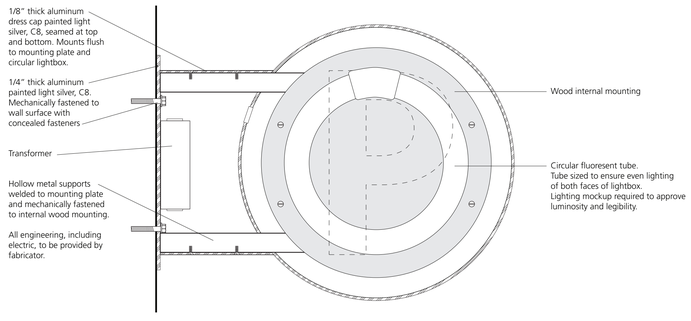
6 **Sign Type N: Stop Sign**
FRONT ELEVATION
Scale: 1 1/2" = 1'-0"



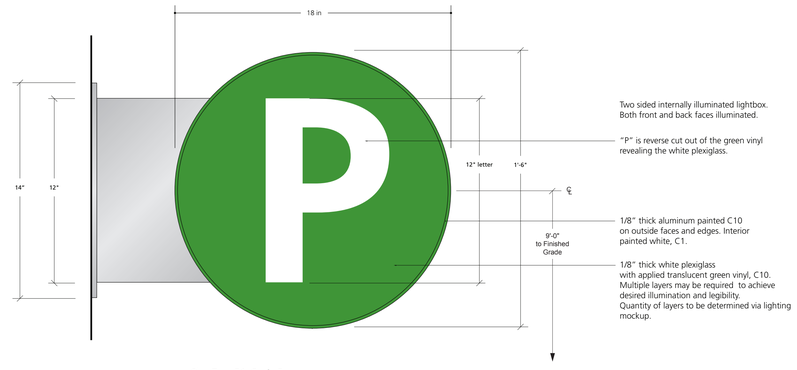
7d **Sign Type R1: Circle P**
TOP SECTION VIEW
Scale: 3" = 1'-0"



7b **Sign Type R1: Circle P**
TOP VIEW
Scale: 3" = 1'-0"



7c **Sign Type R1: Circle P**
FRONT ELEVATION, SECTION VIEW
Scale: 3" = 1'-0"



7a **Sign Type R1: Circle P**
FRONT ELEVATION
Scale: 3" = 1'-0"

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ISSUES

ISSUE	DATE	DESCRIPTION
1	2/21/2020	BID PACKAGE #6
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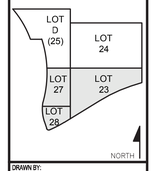


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

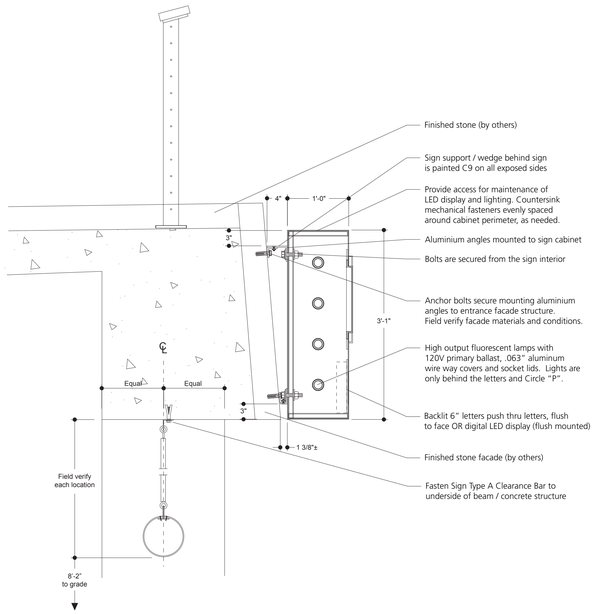
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SIGN TYPES L, M, N & R1

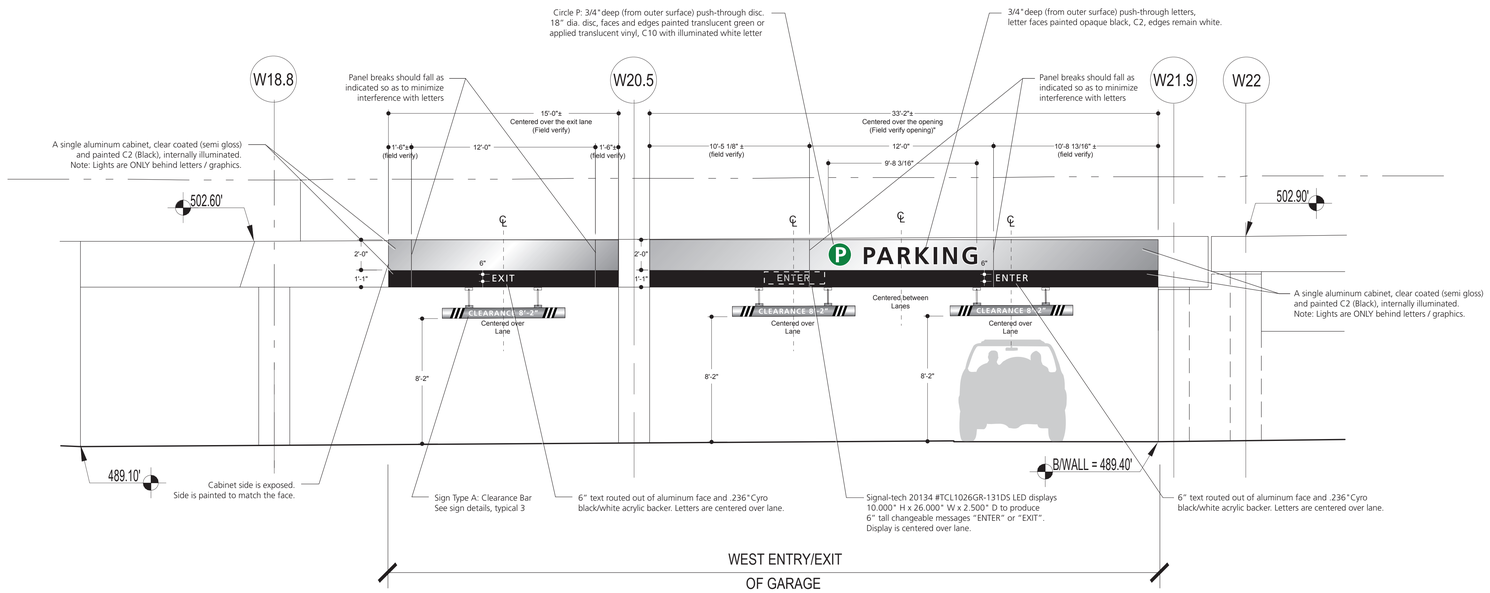
JOB NUMBER BANKS19018 DATE 2/21/2020

DRAWING NUMBER SG205



4 SG303 SECTION DETAIL - SIGN TYPE Q

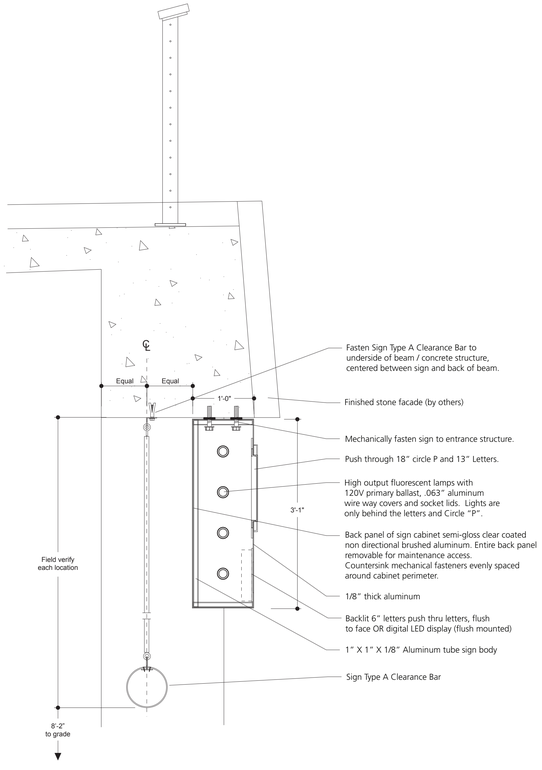
1" = 1'-0"



LOOKING NORTH AT MEHRING WAY

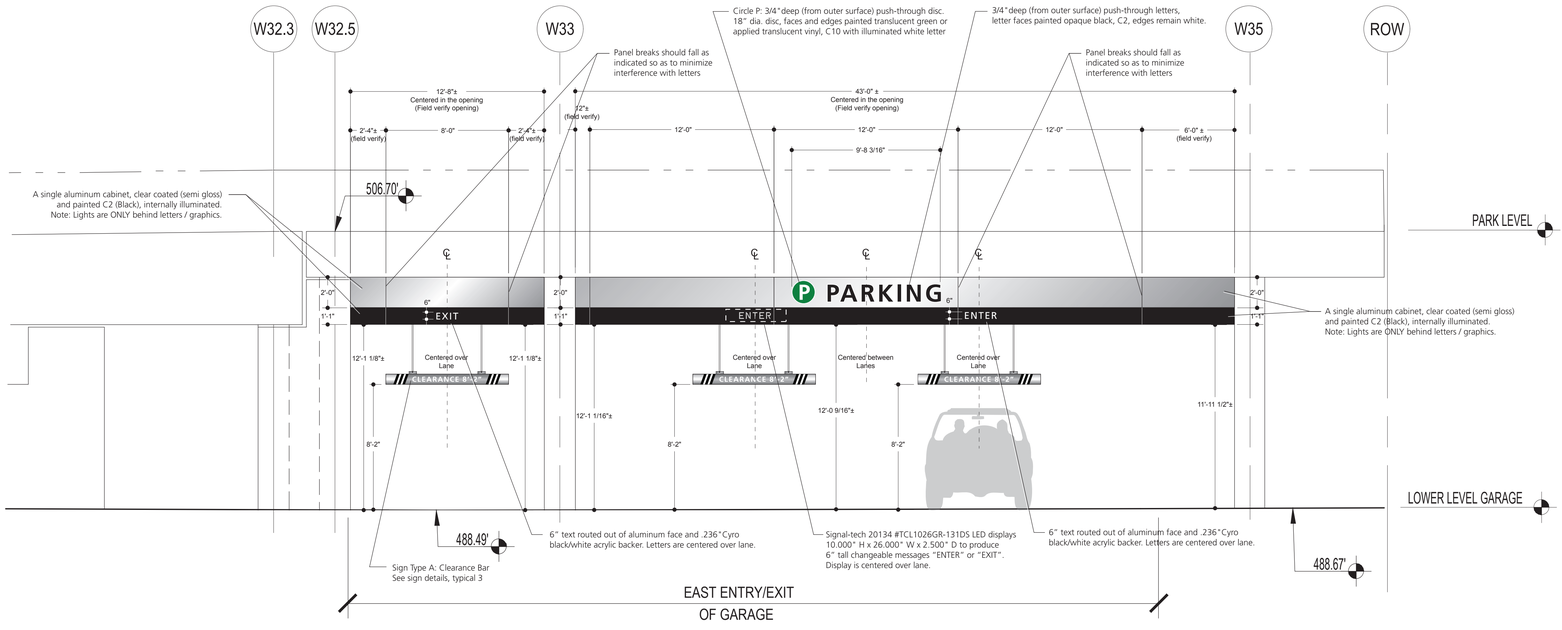
3 SG303 SOUTH ELEVATION - WEST ENTRY - SIGN TYPE Q

1/4" = 1'-0"



2 SG303 SECTION DETAIL - SIGN TYPE Q

1" = 1'-0"



LOOKING NORTH AT MEHRING WAY

1 SG303 SOUTH ELEVATION - EAST ENTRY - SIGN TYPE Q

1/4" = 1'-0"

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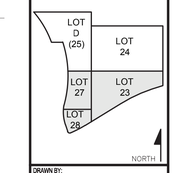


DRAWN BY: JFK

ENGINEER:

CHECKED BY: BP

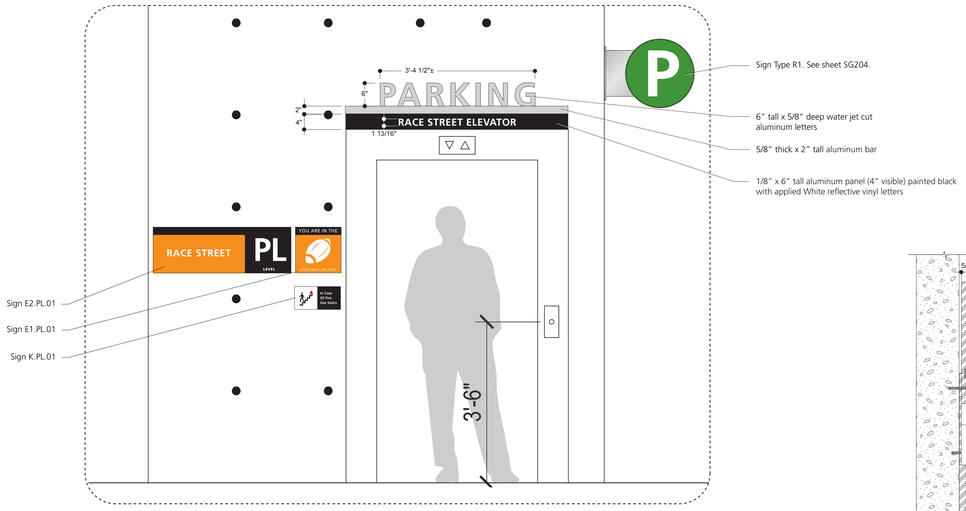
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

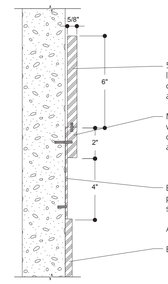
DRAWING TITLE: SIGN TYPE Q GARAGE VEHICULAR ENTRANCES

JOB NUMBER: BANKS19018 DATE: 2/21/2020

DRAWING NUMBER: SG206

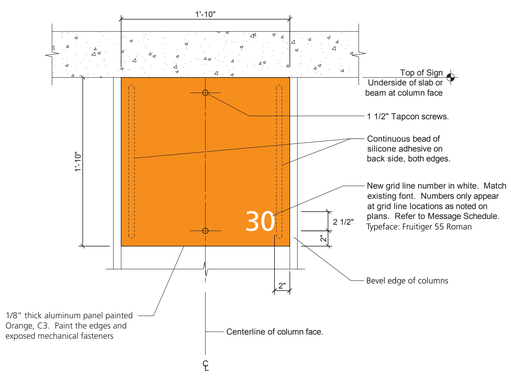


1 **Sign Type R2: Pedestrian Entrance ID - Race Street**
FRONT ELEVATION
Scale: 3/4" = 1'-0"



2 **Sign Type R2: Pedestrian Entrance ID - Race Street**
SECTION DETAIL
Scale: 3" = 1'-0"

3 **Sign Type R2: Pedestrian Entrance ID - Race Street**
SECTION DETAIL
Scale: 3" = 1'-0"



4 **Sign Type CC: Column Color**
FRONT ELEVATION
Scale: 1 1/2" = 1'-0"

WINDMASTER® V4 CURB SIGN 4204
To order call 1.800.228.8925 or see their website;
https://www.mdiworldwide.com/windmasterandreg-v4-curb-sign-28-x-44-4204.html

Model Number:	4204
Frame Material:	Aluminum Frame, White Fluted Polypropylene Back
Base Material:	Gray Molded Polyethylene
Finishes:	Black with Black Corners, Satin Silver with Black Corners
Usage:	Outdoors
Rail Width:	1.73" Top & Bottom, 1.76" Sides
Corner:	Round
Insert Size:	28" x 44"
Max insert wt:	7 lb. per side, 14 lb. total
Visual Area:	26.36" x 43.25"
Bleed:	.82" W x .375" H
Overall Size:	29.88" x 46.70"
Overall Height:	56"
Insert Thickness (max.):	.060"
Base Dimensions:	25" W x 6.2" H x 27" D
Base Fill Capacity:	9.45 gal.
Base Wt. (Filled with Water):	87 lb.
Shipping Weight:	36.1 lb. (UPS)
Frame Style:	WindMaster® V4

5 **Sign Type U: WINDMASTER® V4 CURB SIGN 4204**
Rendering
Scale: NTS

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

kolar
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807 Broadway, 5th Floor
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US 513.241.4884
US toll free 866 264 7738
EUROPE
CH toll free 0800 559 017
www.kolardesign.net

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ISSUES		
1	2/21/2020	BID PACKAGE #6
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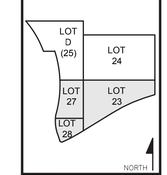


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

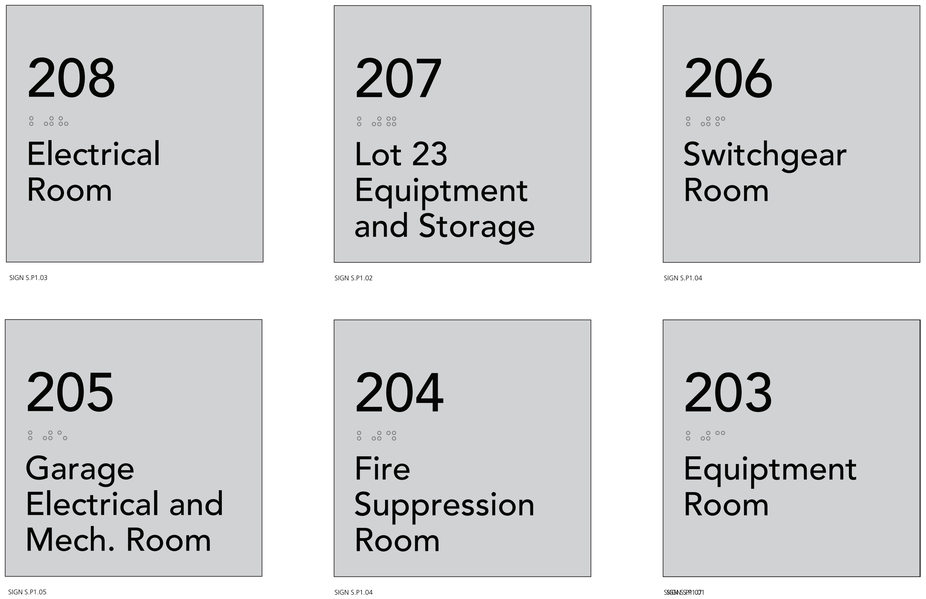
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

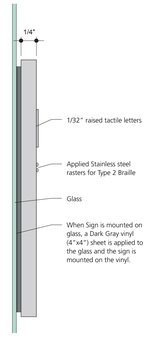
DRAWING TITLE
SIGN TYPES R2, CC & U

JOB NUMBER BANKS19018 DATE 2/21/2020

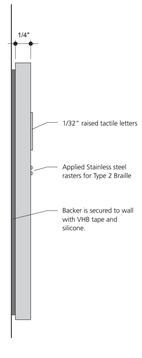
DRAWING NUMBER SG207



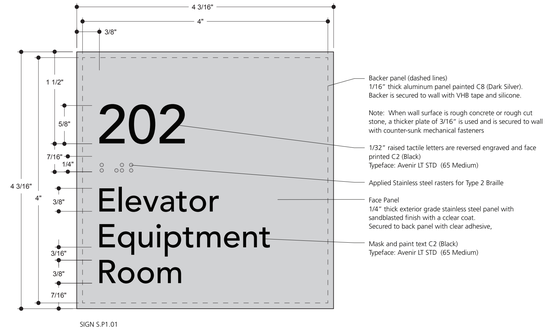
4 SIGN TYPE S ROOM ID - Message Variations
HALF Scale



3 SIGN TYPE S ROOM ID - SIDE VIEW
Full Scale



2 SIGN TYPE S ROOM ID - SIDE VIEW
Full Scale



1 SIGN TYPE S ROOM ID - FRONT ELEVATION
Full Scale

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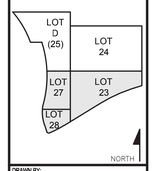


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

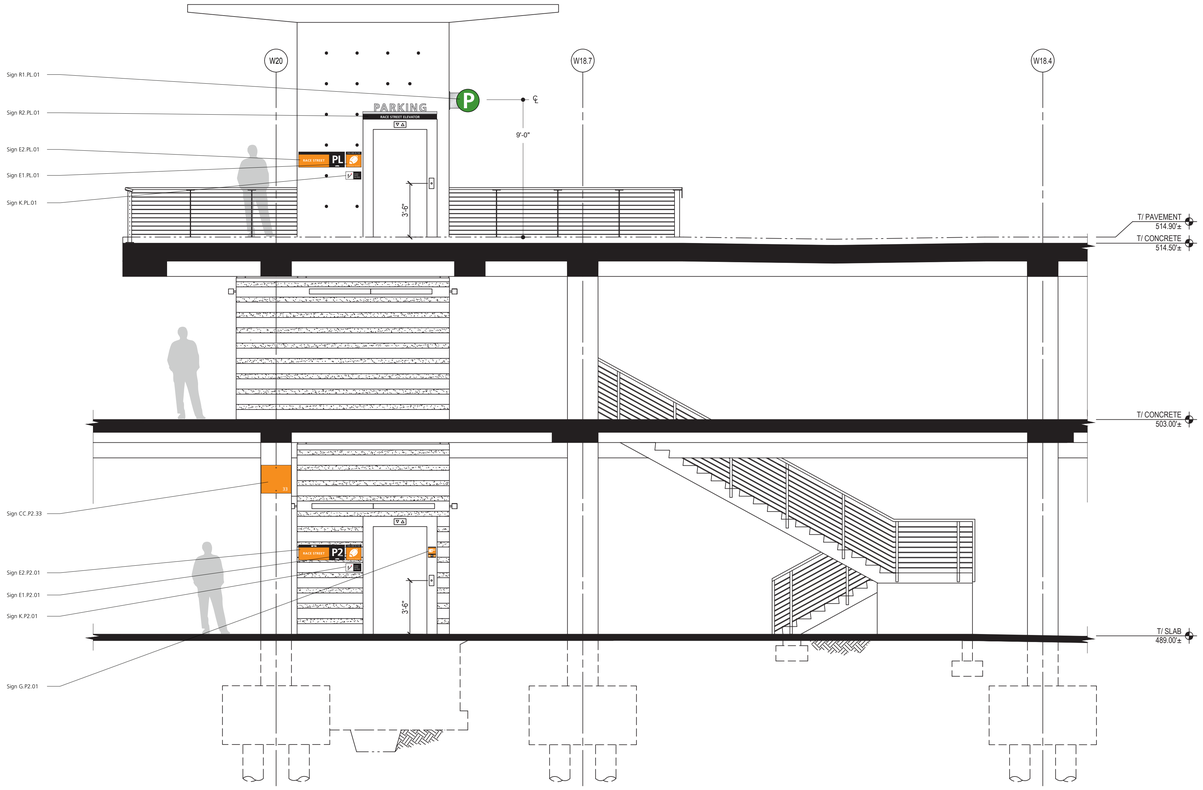
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SIGN TYPE S

JOB NUMBER BANKS19018
DATE 2/21/2020

DRAWING NUMBER
SG208

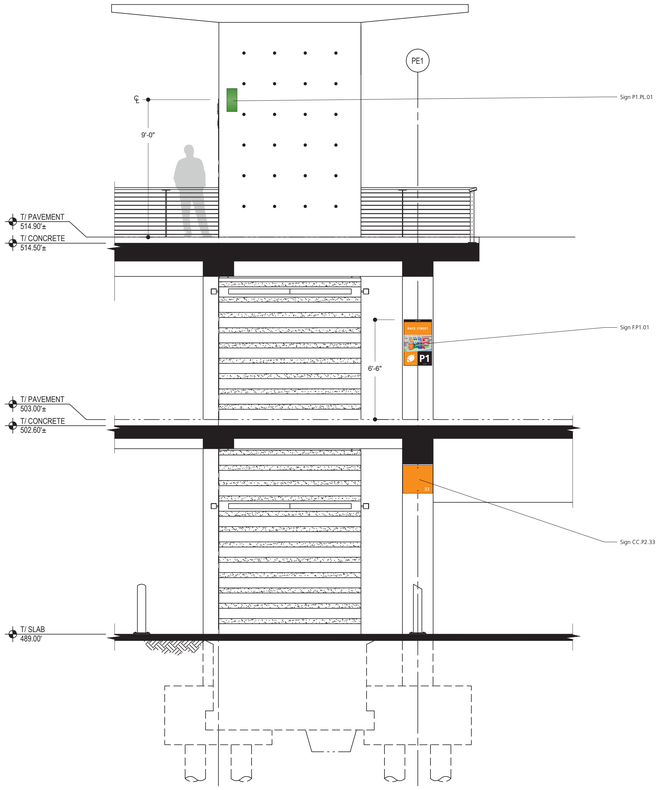


1 SG301

LOT 23 STAIR AND ELEVATOR

NORTH ELEVATION

1/4" = 1'-0"

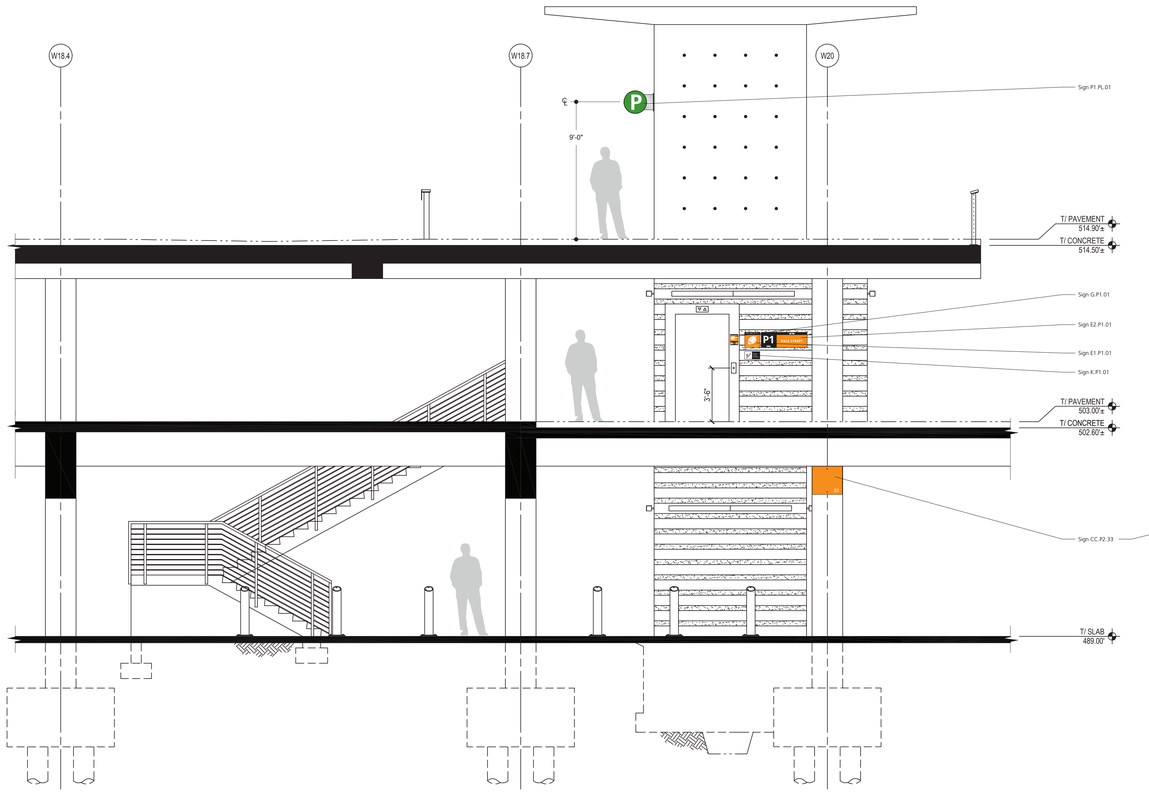


2 SG301

LOT 23 STAIR AND ELEVATOR

WEST ELEVATION

1/4" = 1'-0"

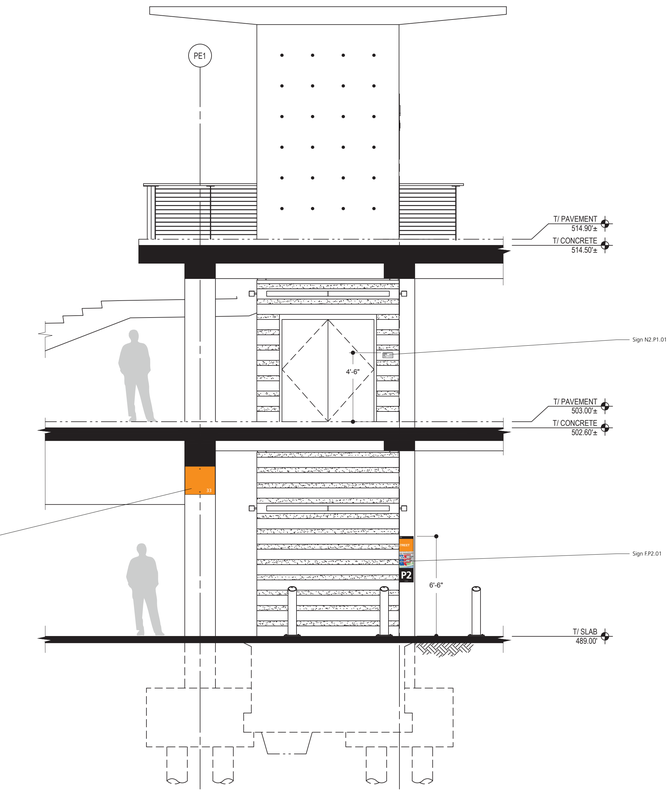


3 SG301

LOT 23 STAIR AND ELEVATOR

SOUTH ELEVATION

1/4" = 1'-0"



4 SG301

LOT 23 STAIR AND ELEVATOR

EAST ELEVATION

1/4" = 1'-0"

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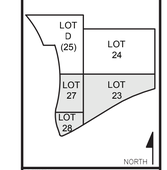


DRAWN BY: JFK

ENGINEER:

CHECKED BY: BP

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: LOCATION ELEVATION ELEVATOR

JOB NUMBER: BANKS19018 DATE: 2/21/2020

DRAWING NUMBER: SG301

1 Sign Type C
Scale: 3/8" = 1'-0"

← Mehring Way Park →	Side B	C.P2.10
← Park Park ↑	Side A	
↑ Park Park →	Side B	C.P2.11
← Park Mehring Way →	Side A	
	Side B	C.P2.12
← Park Exit & Parking →	Side A	
Exit to Mehring Way ↑	Side B	C.P2.13
↑ Park Park →	Side A	
Exit to Mehring Way ↑	Side B	C.P2.14
↑ Park Park →	Side A	
← Exit & Parking	Side B	C.P2.15
↑ Exit & Parking	Side A	
← Park Park →	Side B	C.P2.16
↑ Exit & Parking	Side A	
← Park Park →	Side B	C.P2.17
↑ Exit & Parking	Side A	
Exit & Parking →	Side B	C.P2.18
↑ Exit & Parking	Side A	

	Side B	C.P2.01
↑ Parking All Levels	Side A	
↑ Exit to Mehring Way ↑	Side B	C.P2.02
← Parking All Levels	Side A	
	Side B	C.P2.03
Exit & Parking →	Side A	
← Mehring Way Park →	Side B	C.P2.04
← Park Park ↑	Side A	
↑ Park Park →	Side B	C.P2.05
← Park Mehring Way →	Side A	
↖ Exit Park ↑	Side B	C.P2.06
↑ Park Exit & Parking ↘	Side A	
← Mehring Way Park →	Side B	C.P2.07
← Park Park ↑	Side A	
↑ Park Park →	Side B	C.P2.08
← Park Mehring Way →	Side A	
↑ Exit Park ↑	Side B	C.P2.09
↖ Park	Side A	

2 Sign Type D (sides A & B are the same)
Scale: 3/4" = 1'-0"

D.P2.18	P2 O 35	D.P2.09	P2 M 31
D.P2.17	P2 O 34	D.P2.08	P2 M 30
D.P2.16	P2 N 35	D.P2.07	P2 M 29
D.P2.15	P2 N 34	D.P2.06	P2 L 35
D.P2.14	P2 N 33	D.P2.05	P2 L 34
D.P2.13	P2 N 31	D.P2.04	P2 L 33
D.P2.12	P2 M 35	D.P2.03	P2 L 31
D.P2.11	P2 M 34	D.P2.02	P2 L 30
D.P2.10	P2 M 31	D.P2.01	P2 L 29

3 Sign Type H1
Scale: 3/8" = 1'-0"

	← Elevator and Stairs Side B		→ Elevator and Stairs Side B
H1.P2.01	→ Elevator and Stairs Side A	H1.P2.05	← Elevator and Stairs Side A
	→ Elevator and Stairs Side B		↑ Mehring Way Stairs Side B
H1.P2.02	← Elevator and Stairs Side A	H1.P2.06	→ Elevator and Stairs Side A
	→ Elevator and Stairs Side B		Side B
H1.P2.03	← Elevator and Stairs Side A	H1.P2.07	↑ Elevator and Stairs Side A
	↑ To Mehring Way Side B		↑ To Elm St. & Mehring Way Side B
H1.P2.04	↗ Elevator and Stairs Side A	H1.P2.08	→ Elevator and Stairs Side A

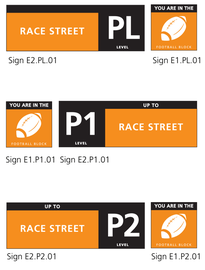
4 Sign Type CC
Scale: NTS

CC.P2.01-CC.P2.04 = 16	29	CC.P2.29-CC.P2.33 = 20	33
CC.P2.05-CC.P2.10 = 24	30	CC.P2.35-CC.P2.50 = 48	34
CC.P2.11-CC.P2.16 = 24	31	CC.P2.51-CC.P2.58 = 32	35
CC.P2.17-CC.P2.28 = 36	32	CC.P2.59-CC.P2.67 = 32	36

5 Sign Type A
Scale: 3/4" = 1'-0"

A.P2.01 - A.PL.06
= 6

6 Sign Type E1 & E2
Scale: 3/4" = 1'-0"



Sign E2.PL.01 Sign E1.PL.01
Sign E1.P1.01 Sign E2.P1.01
Sign E2.P2.01 Sign E1.P2.01

7 Sign Type F
Scale: 3/4" = 1'-0"

F.P2.01 F.P1.01

8 Sign Type G
Scale: 3/4" = 1'-0"

G.P2.01 G.P1.01

9 Sign Type M
Scale: 3/4" = 1'-0"

M1

M1.P2.01 - M1.P2.17
= 17

Note: 1st seven are existing graphics that need to be repainted.

10 Sign Type I1
Scale: 1 1/2" = 1'-0"

I1 = 0 I2 = 10

11 Sign Type N
Scale: 1 1/2" = 1'-0"

N.P2.01 - N.P2.15
15 (as shown on location plans)
10 (attic stock for later installation)
= 25 total

11 Sign Type O
Scale: 6" = 1"

O.PL.01
= 1

12 Sign Type U
Scale: NTS

WindMaster Quantities
= 4

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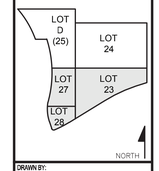


DRAWN BY: JFK
ENGINEER:
CHECKED BY: BP

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
MESSAGE SCHEDULE

JOB NUMBER BANKS19018 DATE 2/21/2020

DRAWING NUMBER SG401

DRAWING INDEX

SHEET	DRAWING NO.	DRAWING TITLE	SHEET	DRAWING NO.	DRAWING TITLE
XX	TY001	DRAWING INDEX, LEGEND, NOTES, AND ABBREVIATIONS			
XX	TY101A	LOT 27 LOWER LEVEL SECURITY SYSTEMS PLAN (489)			
XX	TY101B	LOT 23 LOWER LEVEL SECURITY SYSTEMS PLAN (489)			
XX	TY101C	LOT 24 LOWER LEVEL SECURITY SYSTEMS PLAN (489)			
XX	TY102A	LOT 27 UPPER LEVEL SECURITY SYSTEMS PLAN (503)			
XX	TY102B	LOT 23 UPPER LEVEL SECURITY SYSTEMS PLAN (503-507)			
XX	TY102C	LOT 24 UPPER LEVEL SECURITY SYSTEMS PLAN (500)			
XX	TY103A	LOT 24 PODIUM LEVEL SECURITY SYSTEMS PLAN (515)			
XX	TY501	NETWORK ENCLOSURE DETAILS			
XX	TY502	CCTV AND TELEPHONE ENCLOSURE MOUNTING DETAILS			
XX	TY601	SECURITY EQUIPMENT SCHEDULES			
XX	TY901	NETWORK SCHEMATIC DIAGRAMS			
XX	TY902	TELEPHONE SCHEMATIC DIAGRAMS			

GENERAL NOTES

A. THE LIST OF EQUIPMENT, TABULATIONS OF DATA, AND SCHEDULES APPEARING ON THE DRAWINGS ARE INCLUDED FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR IN ARRIVING AT A MORE COMPLETE UNDERSTANDING OF THE INTENDED INSTALLATION. THEY ARE NOT INTENDED, NOR SHALL THEY BE CONSTRUED, AS RELIEVING THE RESPONSIBILITY OF THE CONTRACTOR IN MAKING HIS OWN TAKEOFF AND PROVIDING ALL REQUIRED WORK AND COORDINATION AS REQUIRED BY THE CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND ALL APPLICABLE CODES AND STANDARDS.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF EIA/TIA-606-A.

C. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED. DEVICE IDENTIFICATIONS SHALL MATCH DEVICE SCHEDULE (SHEET TY601).

D. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH J-STD-607-A AND NFPA 70.

E. PAYMENT FOR ALL LABOR, MATERIALS, EQUIPMENT, AND CONSUMABLES SHALL BE INCLUDED IN THE CONTRACT PRICE AS A LUMP SUM FOR ITEM SPECIAL - CENTRAL RIVERFRONT SAFETY TECHNOLOGIES, AS PER PLAN.

PATHWAY NOTES

1. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE ASSOCIATED DRAWINGS AND TIA/EIA-569-B.
2. PROVIDE DESIGNATION LABELS ON ALL CABLE TERMINATION BLOCKS AND PATCH PANELS IN ACCORDANCE WITH SPECIFICATIONS AND TIA/EIA-606-A.
3. MAXIMUM ADDITIVE BEND RADIUS FOR TELECOMMUNICATION AND SECURITY SYSTEM SIGNAL CONDUCTOR CONDUITS BETWEEN PULL POINTS IS 180 DEGREES. THREE 90 DEGREE BENDS ARE PERMITTED WHERE: 1. THE FIRST BEND IS WITHIN 12-INCHES OF THE PULL POINT, 2. THE TOTAL CONDUIT RUN IS LESS THAN 33-FEET., 3. THE CONDUIT IS INCREASED BY 1 TRADE SIZE.
4. DO NOT EXCEED 100-FEET BETWEEN PULL POINTS/JUNCTION BOXES. ADJUST NEW JUNCTION BOX LOCATIONS AS NECESSARY TO COMPLY.
5. REFER TO ELECTRICAL SPECIFICATION SECTION 260533 FOR INSTALLATION INSTRUCTIONS FOR CONDUITS AND PULL BOXES.
6. RACEWAYS AND JUNCTION BOXES SHALL BE FACTORY FINISHED OR FIELD PAINTED IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS TO MATCH THE EXISTING CONDITIONS. CONDUIT MOUNTED TO WHITE SURFACES SHALL MATCH SONNEBORN SEAL COAT BRIGHT WHITE #446-P (LRV-86) CONDUIT MOUNTED TO BARE CONCRETE SHALL MATCH SHERWIN WILLIAMS CINDER BLOCK GRAY (SW1008).
7. MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR TELECOMMUNICATION AND SECURITY SYSTEMS SIGNAL CONDUITS GREATER THAN 2" DIAMETER. MAINTAIN MINIMUM BEND RADIUS OF 6X O.D. FOR CONDUITS LESS THAN 2" DIAMETER.
8. REAM AND BUSH THE ENDS OF ALL CONDUITS.
9. GROUND CONDUIT TO APPROPRIATE TELECOMMUNICATIONS GROUNDING BUSBAR.
10. PENETRATIONS IN FIRE RATED WALLS/FLOORS SHALL BE RESTORED TO THE APPROPRIATE RATING WITH A "RE-ENTRABLE" FIRESTOP IN ACCORDANCE WITH APPLICABLE CODES. FIRE STOP ASSEMBLES SHALL BE UL LISTED.
11. PATCH AND PAINT ALL SURFACES DAMAGED DURING THE INSTALLATION OF TELECOMMUNICATIONS AND ELECTRICAL PATHWAYS. RESTORATION OF ALL SPAWLING OF CONCRETE AND DAMAGED DRYWALL SHALL PROVIDE LIKE NEW CONDITION TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
12. PROVIDE A MINIMUM OF 2-INCH CLEARANCE FROM ALL OTHER SYSTEMS.
13. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATE SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.

ELECTRONIC SAFETY AND SECURITY

XXX	LOW VOLTAGE TRANSFORMER WITH DEVICE TAG
	INTERCOM
	CELLULAR TRANSMITTER
	OPTICAL FIBER MODULE
	MONITOR
XXX	CAMERA (FIXED) WITH DEVICE TAG
XXX	CAMERA WITH PAN/TILT/ZOOM WITH DEVICE TAG
	VIDEO CONTROL KEYBOARD
	VIDEO ENCODER
	VIDEO MOTION DETECTOR
	RECORDER
SAAP	SECURITY ALARM ANNUNCIATOR PANEL
SAAD	SECURITY ALARM AUTO DIALER
XX	DURESS BUTTON WITH DEVICE TAG
	RELAY SWITCH
XX	EMERGENCY PHONE WITH DEVICE TAG
J	JUNCTION BOX
TCC	TRAFFIC CONTROL CABINET

NOTE:
1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

NETWORK EQUIPMENT

	SONET MODE
	LAN SWITCH
	WIRELESS ACCESS POINT

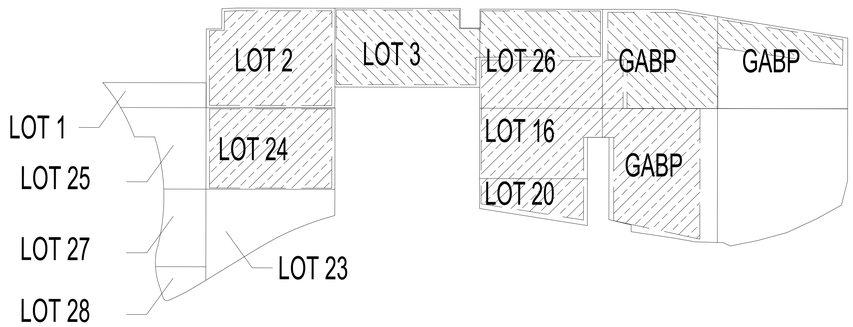
DEVICE MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE TELECOMMUNICATION AND SAFETY SYSTEMS DRAWINGS. IF SPECIAL DEVICE HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE DEVICES AS NOTED BELOW. DEVICE HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.

EMERGENCY TELEPHONE PUSH BUTTON	48" AFF
INDOOR CCTV CAMERA	96" TO 144" AFF
OUTDOOR CCTV CAMERA	25' TO 35' AFG (UNO)

ABBREVIATIONS

A	AMP, AMPERE	IDF	INTERMEDIATE DISTRIBUTION FRAME
AC	ALTERNATING CURRENT	LVT	LOW VOLTAGE TRANSFORMER
AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AFG	ABOVE FINISHED GRADE	MFR	MANUFACTURER, MANUFACTURING
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
C	CONDUIT	MTD	MOUNTED
CAT	CATEGORY	NEC	NATIONAL ELECTRIC CODE
CB	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CKT	CIRCUIT	N.C.	NORMALLY CLOSED
C.L.	CENTER LINE	N.I.C.	NOT IN CONTRACT
CNTRL	CONTROL	NL	NIGHT LIGHT
COMM	COMMUNICATIONS	N.O.	NORMALLY OPEN
CONT'R	CONTACTOR	NO	NUMBER
CO	COMPANY	RECEPT	RECEPTACLE (POWER)
CONC	CONCRETE	REV	REVISION
DISC	DISCONNECT SWITCH	RM	ROOM
DWG	DRAWING	SURF	SURFACE
E.C.	ELECTRICAL CONTRACTOR	TEL	TELEPHONE
EA	EACH	TER	TELECOMMUNICATION EQUIPMENT ROOM
ELEC	ELECTRIC OR ELECTRICAL	TR	TELECOMMUNICATIONS ROOM
ELEV	ELEVATION	TYP	TYPICAL
EM	EMERGENCY	U.N.O.	UNLESS NOTED OTHERWISE
ER	EXISTING DEVICE TO REMAIN	UPS	UNINTERUPTABLE POWER SUPPLY
EXIST	EXISTING	V	VOLT
FIXT	FIXTURE	WAP	WIRELESS ACCESS POINT
FLR	FLOOR	WP	WEATHERPROOF
FT	FOOT OR FEET	XFMR	TRANSFORMER
GFI	GROUND FAULT INTERRUPTER		
GND	GROUND		



1 SITE KEY
NOT TO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP
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ISSUES

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	01/10/20	BID PACKAGE - SCOPING SET
3	02/21/2020	BID PACKAGE #6

DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

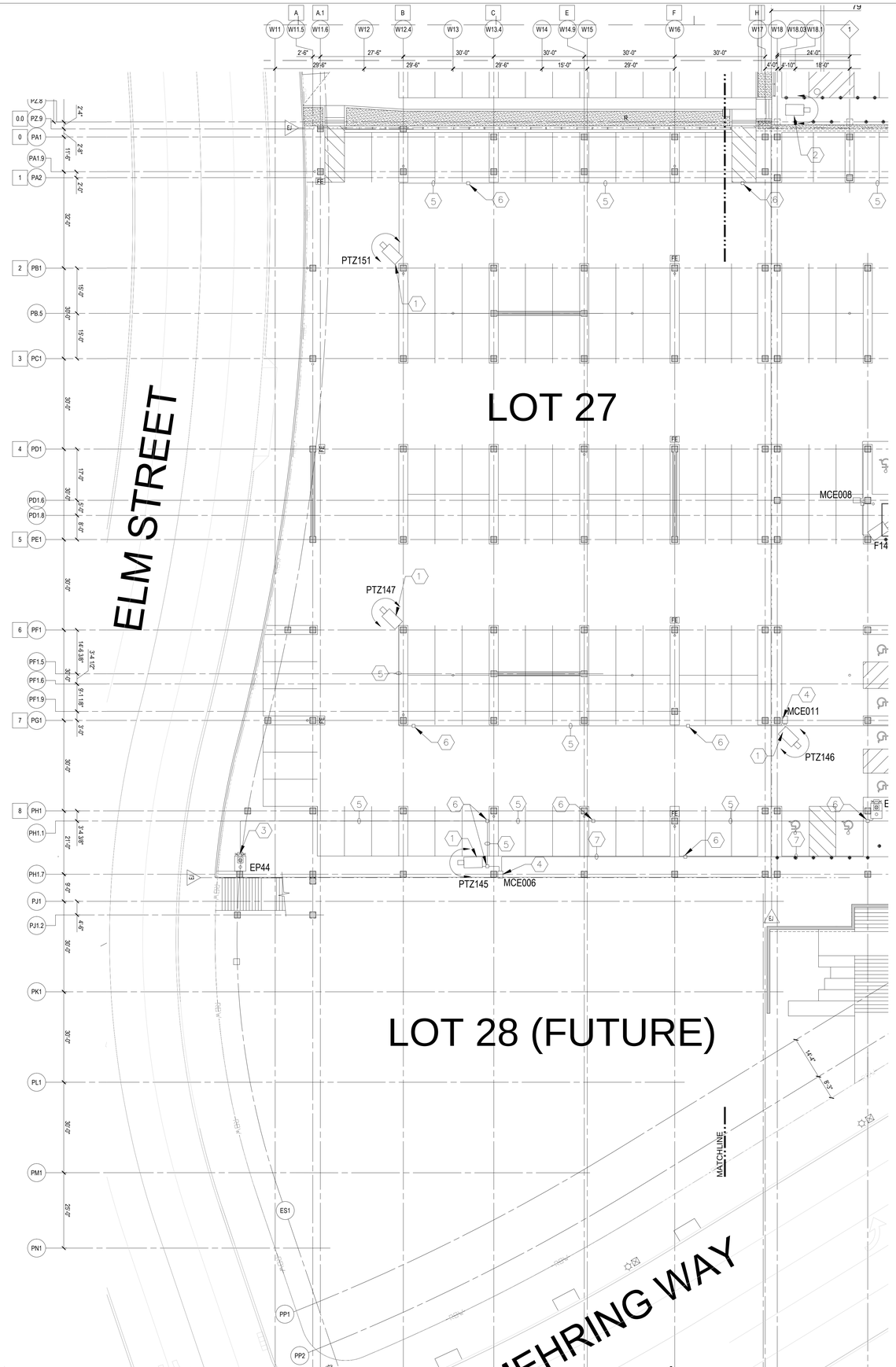
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
DRAWING INDEX, LEGEND, NOTES AND ABBREVIATIONS

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY001



LOT 27 LOWER LEVEL SECURITY SYSTEMS PLAN (489)

1/16" = 1'-0"

GENERAL NOTES:

A. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

C. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

D. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

E. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. NEW PTZ SECURITY CAMERA.
2. EXISTING SECURITY SYSTEMS CAMERA.
3. NEW EMERGENCY TELEPHONE.
4. NEW MEDIA CONVERTER CABINET WITH TWO (2) PoE INJECTORS.
5. PROVIDE AND INSTALL NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING.
6. PROVIDE AND INSTALL NEW JUNCTION BOX, 4-INCHES WIDE BY 4-INCHES LONG BY 2-INCHES DEEP.
7. PROVIDE AND INSTALL NEW 3/4-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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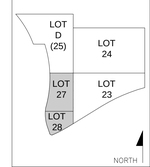
ISSUES

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	01/31/2020	BID PACKAGE #6 – SCOPING SET
3	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.

ENGINEER: J.A.J.

CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

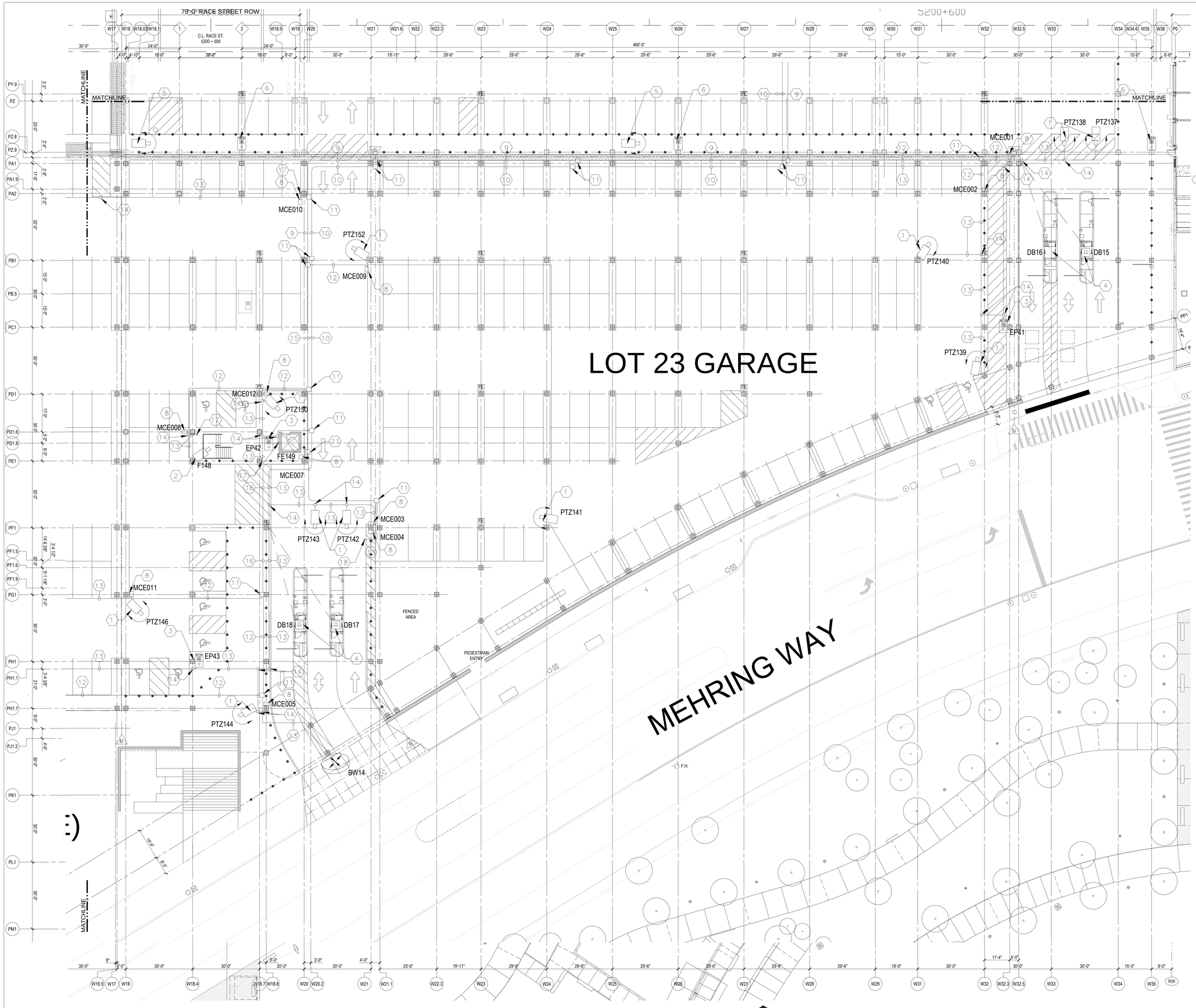
LOWER LEVEL (489) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38

DATE 02/21/2020

DRAWING NUMBER

TY101A



LOT 23 LOWER LEVEL SECURITY SYSTEMS PLAN (489)

1/16" = 1'-0"

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. NEW PTZ SECURITY CAMERA.
2. NEW FIXED CAMERA.
3. NEW EMERGENCY TELEPHONE.
4. NEW DURESS BUTTON LOCATION.
5. EXISTING SECURITY SYSTEMS CAMERA.
6. EXISTING EMERGENCY TELEPHONE.
7. EMERGENCY TELEPHONE EP37 SHALL BE RAISED SO THAT THE PUSH BUTTON IS AT 48 INCHES ABOVE THE FINISHED FLOOR OF THE NEW PLATFORM.
8. NEW MEDIA CONVERTER CABINET WITH TWO (2) POE INJECTORS.
9. PROVIDE AND INSTALL NEW 1 1/2-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.
10. PROVIDE AND INSTALL NEW 1-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING.
11. PROVIDE AND INSTALL NEW JUNCTION BOX, 12-INCHES WIDE BY 12-INCHES LONG BY 4-INCHES DEEP.
12. PROVIDE AND INSTALL NEW 3/4-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.
13. PROVIDE AND INSTALL NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING.
14. PROVIDE AND INSTALL NEW JUNCTION BOX, 4-INCHES WIDE BY 4-INCHES LONG BY 2-INCHES DEEP.
15. PROVIDE AND INSTALL NEW 1 1/4-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.
16. PROVIDE AND INSTALL NEW 1-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.
17. NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING UP TO DEVICE ON P1 LEVEL (REFER TO SHEET TY102B).
18. NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING UP TO PULL BOX ON P1 LEVEL (REFER TO SHEET E201) FOR POLE MOUNTED CAMERAS.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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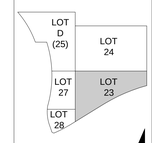
Norman, Indiana 47061
PH. 812-230-0044

ISSUES

ISSUES		
1	12/12/2019	BID PACKAGE #5 - ISD PRICING
2	01/10/2020	BID PACKAGE #5 - SCOPING SET
3	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

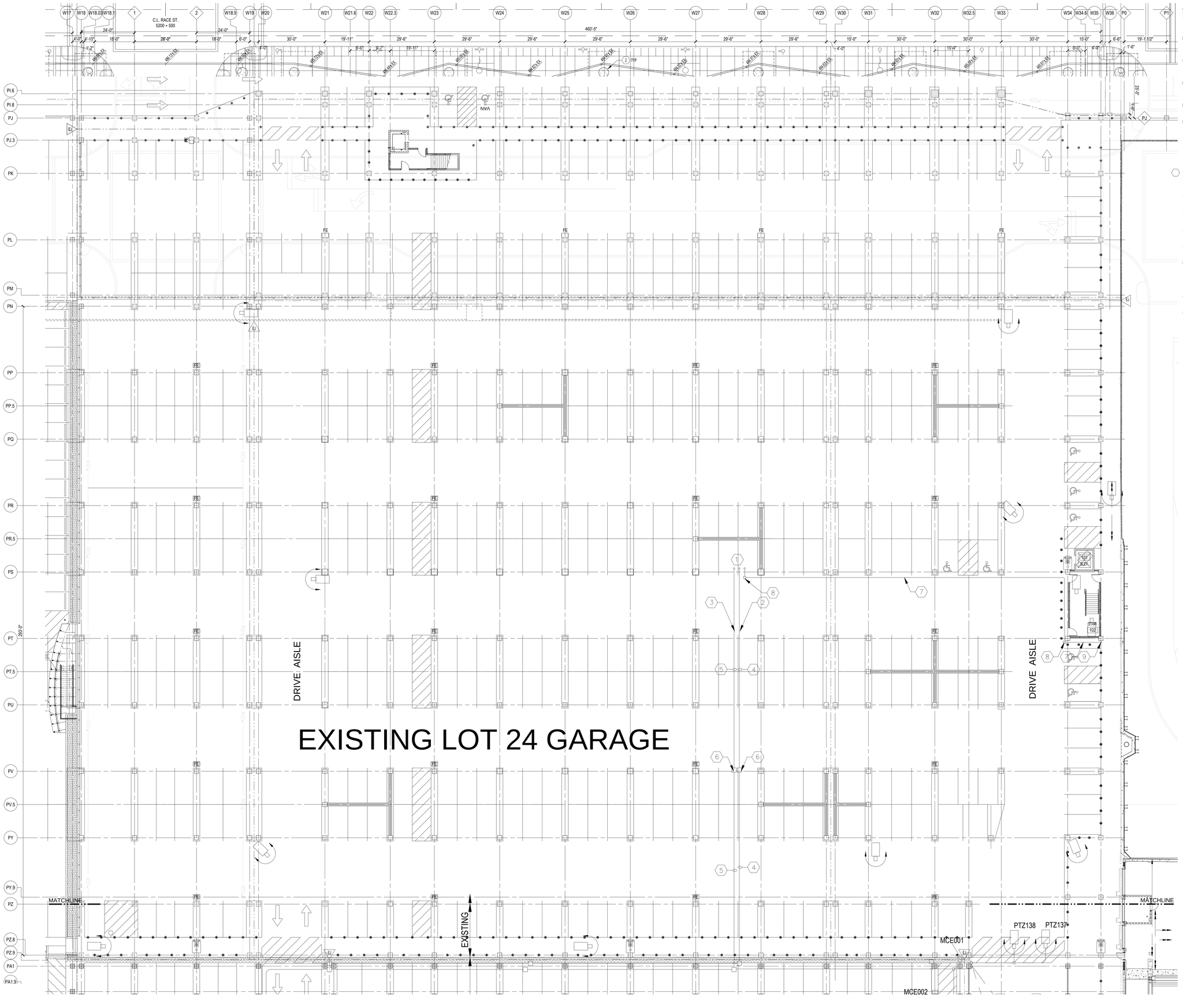
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER LEVEL (489) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY101B



LOT 24 LOWER LEVEL SECURITY SYSTEMS PLAN (489)

1/16" = 1'-0"

NORTH

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. EXISTING SECURITY EQUIPMENT CABINET (AGGREGATION POINT D) ABOVE. REFER TO SHEET TY102C.
2. NEW CONDUIT RACEWAY FOR FIBER OPTIC (DATA/VIDEO) DISTRIBUTION UP TO P1 LEVEL .
3. NEW CONDUIT RACEWAY FOR COPPER CABLING (TELEPHONE AND ALARM) DISTRIBUTION UP TO P1 LEVEL.
4. PROVIDE AND INSTALL NEW 1 1/2-INCH CONDUIT RACEWAY FOR NEW FIBER OPTIC CABLING.
5. PROVIDE AND INSTALL NEW 1-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING.
6. PROVIDE AND INSTALL NEW JUNCTION BOX, 12-INCHES WIDE BY 12-INCHES LONG BY 4-INCHES DEEP.
7. PROVIDE AND INSTALL NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING.
8. PROVIDE AND INSTALL NEW JUNCTION BOX, 4-INCHES WIDE BY 4-INCHES LONG BY 2-INCHES DEEP.
9. NEW 3/4-INCH CONDUIT RACEWAY FOR SIGNAL AND TELEPHONE CABLING UP TO DEVICE ON PODIUM LEVEL (REFER TO SHEET TY103A).

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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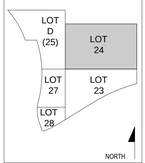
25086 Legion Road
Norman, Indiana 47041
PH. 812-523-0044

ISSUES		
1	01/31/2020	BID PACKAGE #6 - SCOPING SET
2	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

THE BANKS PHASE 3B

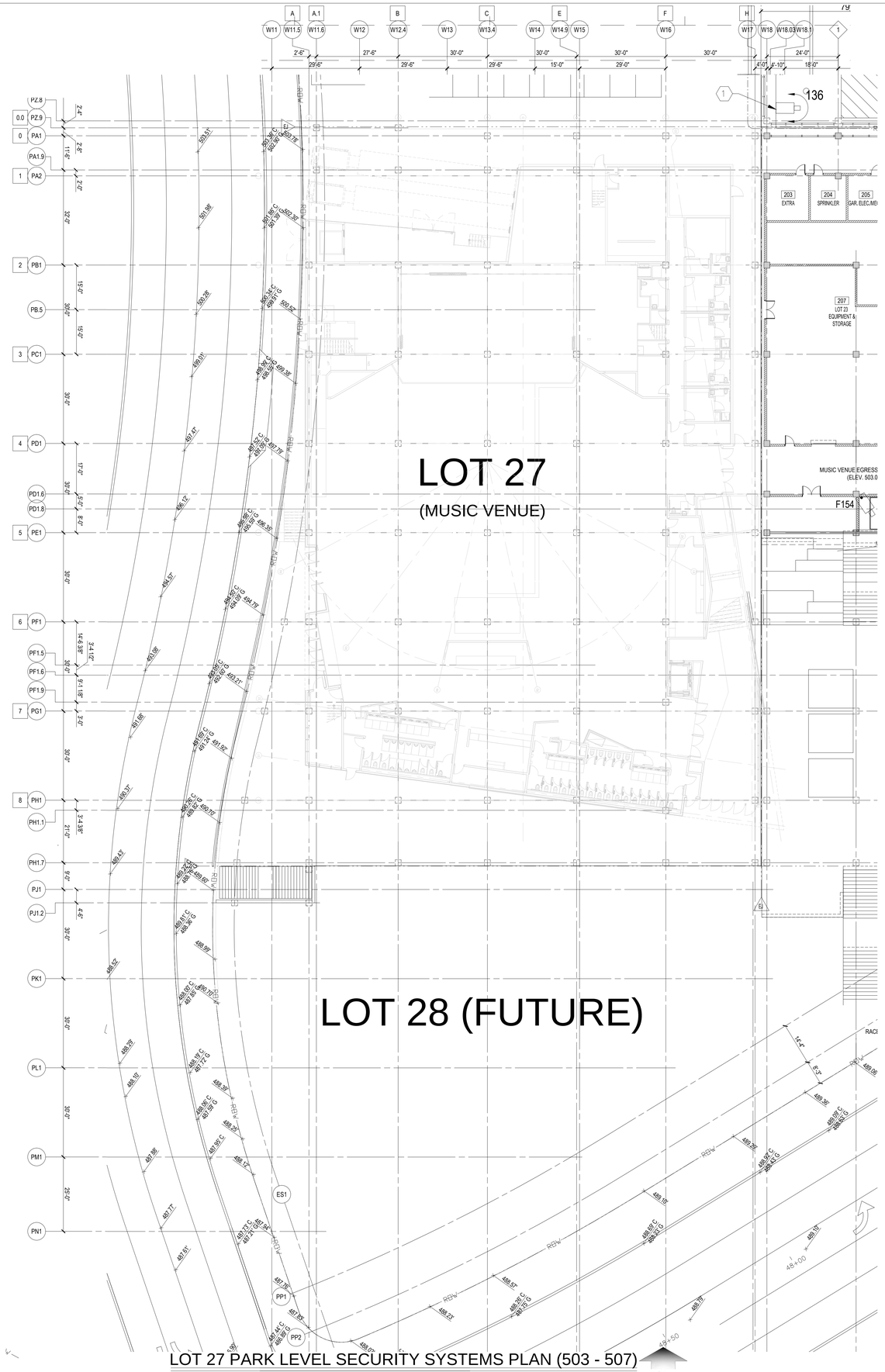
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
LOWER LEVEL (489) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY101C

NO NEW DEVICES ON THIS SHEET.



LOT 27 PARK LEVEL SECURITY SYSTEMS PLAN (503 - 507)

1/16" = 1'-0"

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. EXISTING SECURITY SYSTEMS CAMERA.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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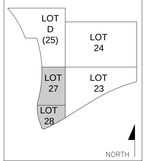
ISSUES

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	01/31/2020	BID PACKAGE #6 - SCOPING SET
3	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.

ENGINEER: J.A.J.

CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

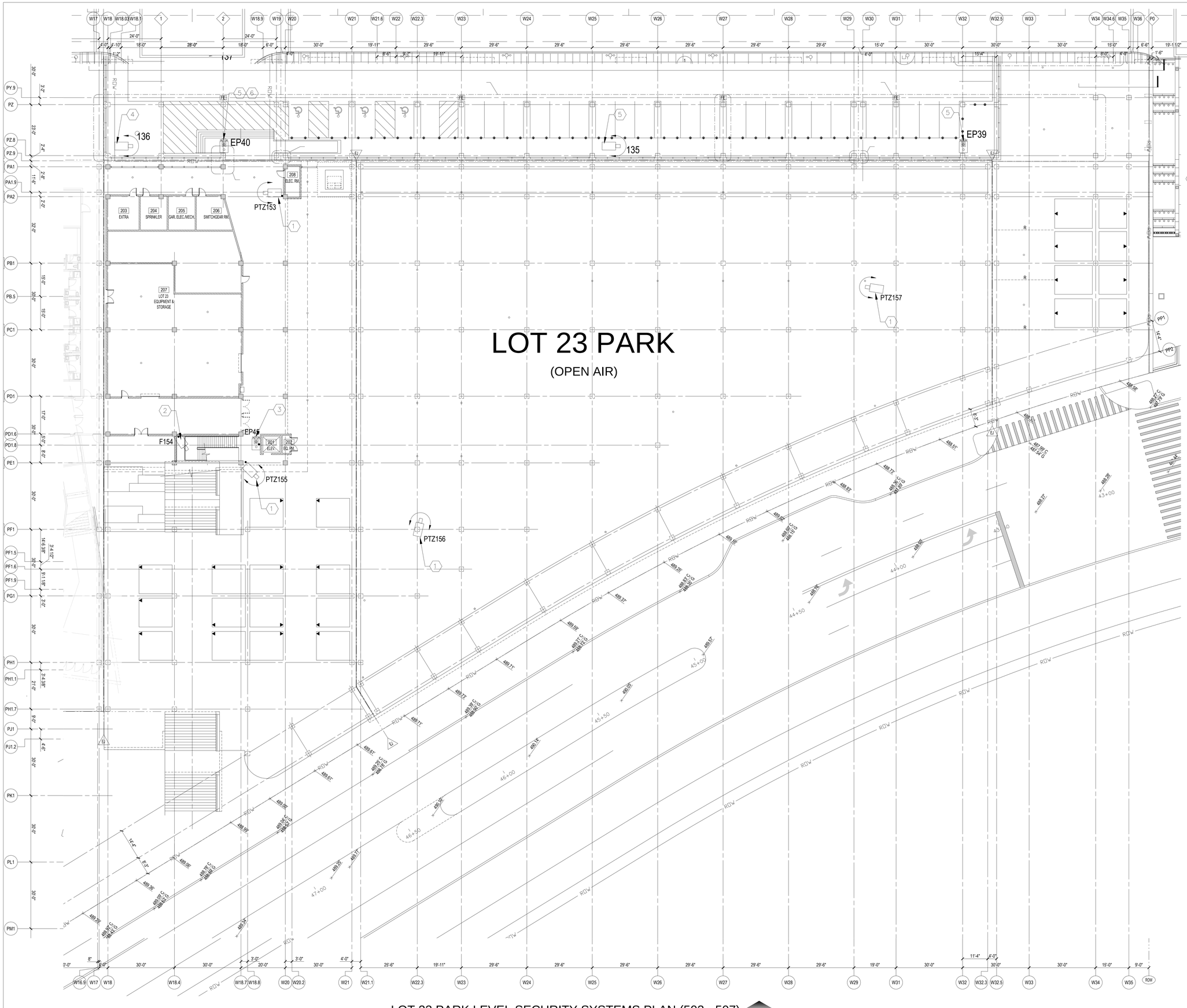
PARK LEVEL (503 - 507) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38

DATE 02/21/2020

DRAWING NUMBER

TY102A



LOT 23 PARK LEVEL SECURITY SYSTEMS PLAN (503 - 507)

1/16" = 1'-0"

NORTH

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. NEW PTZ SECURITY CAMERA.
2. NEW FIXED CAMERA.
3. NEW EMERGENCY TELEPHONE.
4. EXISTING SECURITY SYSTEMS CAMERA.
5. EXISTING EMERGENCY TELEPHONE.
6. EMERGENCY TELEPHONE EP37 SHALL BE RAISED SO THAT THE PUSH BUTTON IS AT 46 INCHES ABOVE THE FINISHED FLOOR OF THE NEW PLATFORM.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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25086 Legion Road
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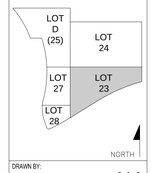
PH. 812-623-0044

ISSUES		
1	12/12/2019	BID PACKAGE #6 - DD PRICING
2	01/17/2020	BID PACKAGE #6 - SCOPING SET
3	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

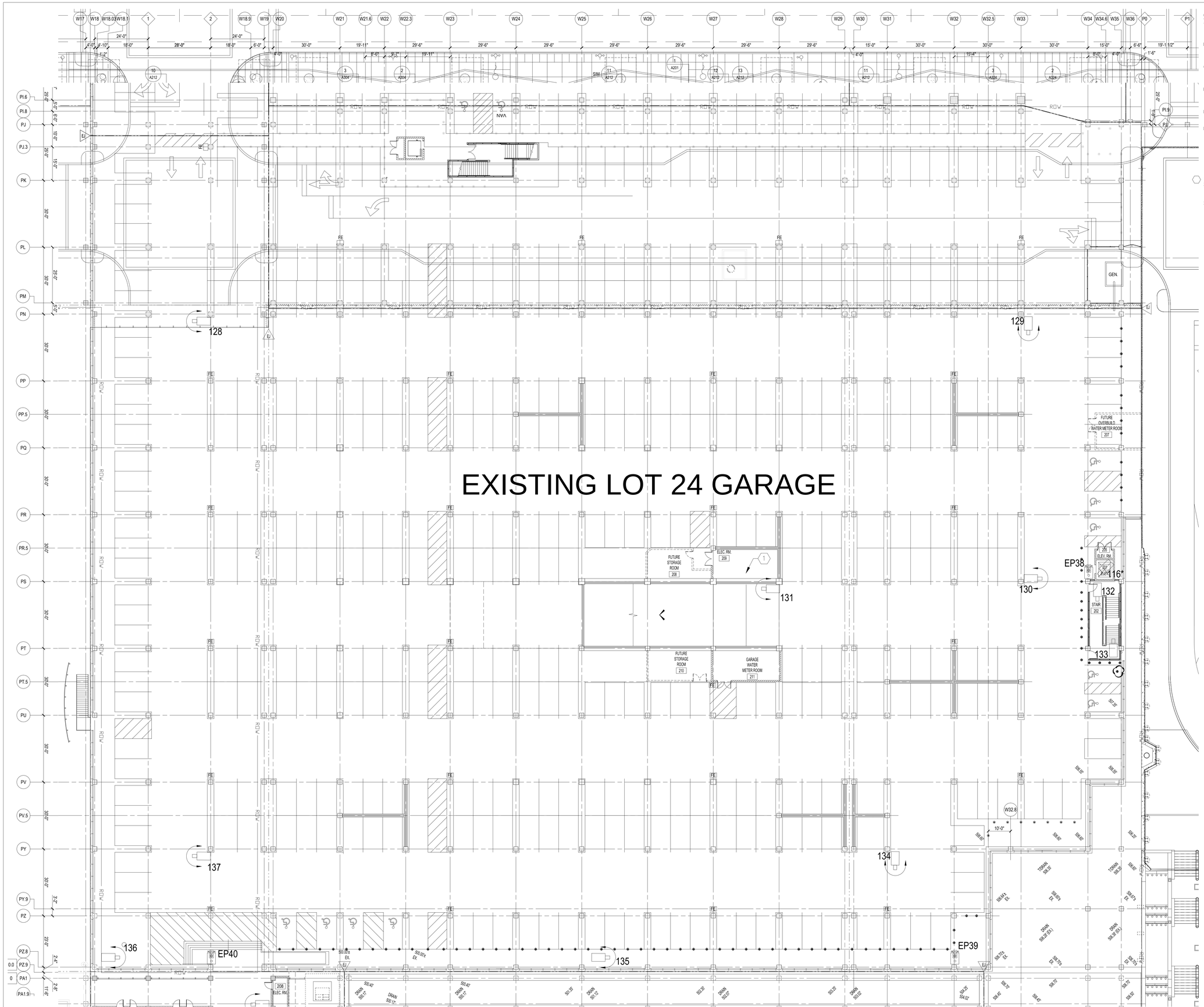
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
PARK LEVEL (503-507) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY102B



LOT 24 UPPER LEVEL SECURITY SYSTEMS PLAN (500)

1/16" = 1'-0"

NORTH

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. EXISTING LOT 24 SECURITY EQUIPMENT CABINET (AGGREGATION POINT D). REFER TO SHEET TY501 FOR EQUIPMENT DETAILS.

2. XXX

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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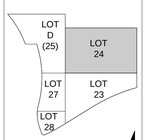
PH. 812-623-0044

ISSUES		
1	01/31/2020	BID PACKAGE #6 - SCOPING SET
2	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.

ENGINEER: J.A.J.

CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE

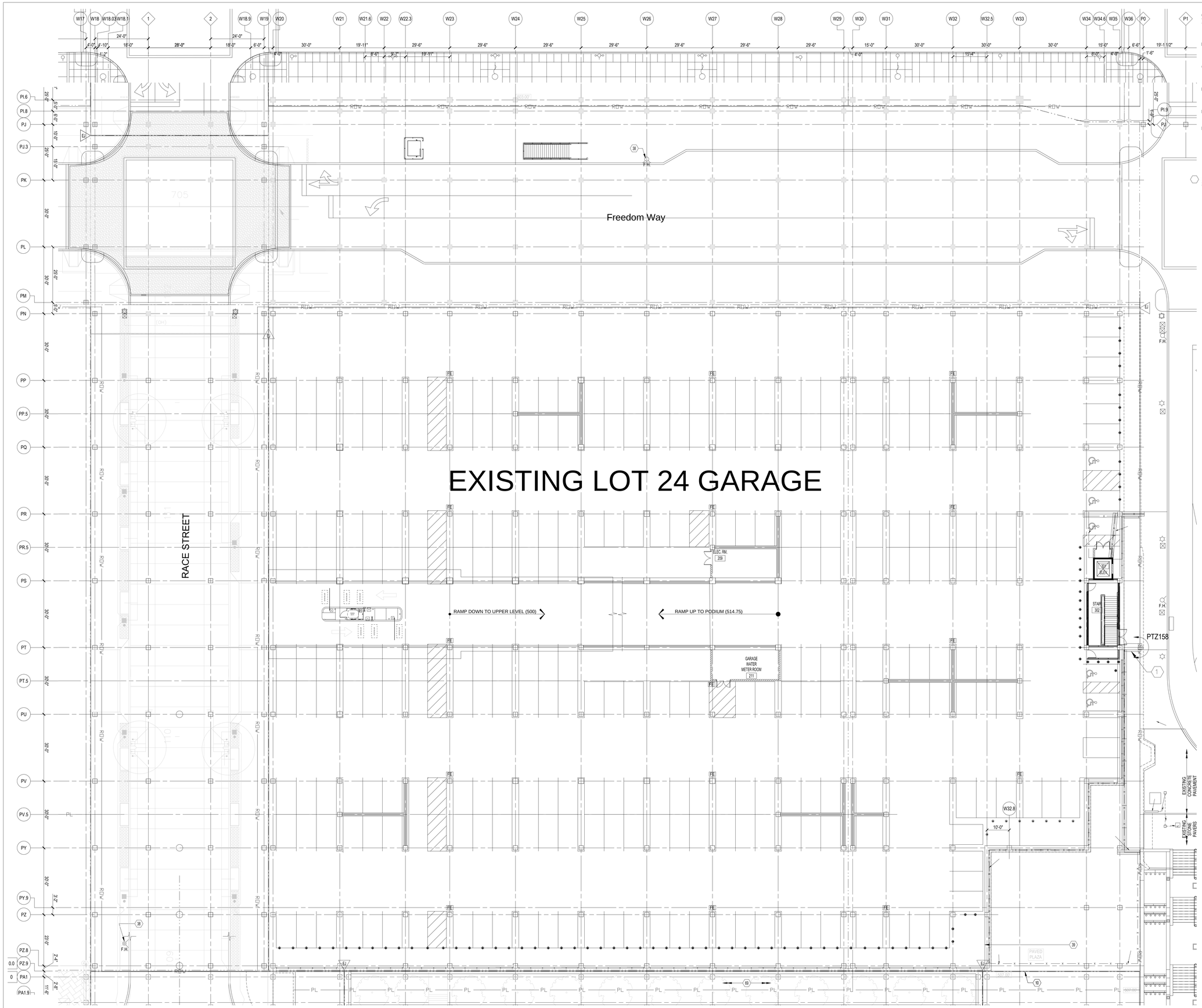
PARK LEVEL (500) SECURITY SYSTEMS PLAN

JOB NUMBER 98090.38

DATE 02/21/2020

DRAWING NUMBER

TY102C



LOT 24 PODIUM LEVEL SECURITY SYSTEMS PLAN (515)

1/16" = 1'-0"

NORTH

GENERAL NOTES:

A. LIGHT LINEWORK AND TEXT INDICATE EXISTING WORK FROM PRIOR CONTRACT. HEAVY LINEWORK AND TEXT INDICATE NEW WORK IN THIS CONTRACT.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-569.

C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ANSI/TIA-607 AND NFPA 70.

F. THE NETWORK, SECURITY, AND TELECOMMUNICATION DRAWINGS ARE GENERALLY DIAGRAMMATIC. COORDINATE WORK ALL OTHER TRADES PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS SO THAT INTERFERENCE IS AVOIDED. SUBMIT COORDINATED SHOP DRAWING FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE PUBLIC SAFETY SYSTEMS.

DRAWING NOTES:

1. NEW PTZ SECURITY CAMERA.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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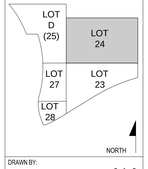
BRIGHT TECHNOLOGIES INC.
25086 Legion Road
Sunman, Indiana 47041
PH. 812-623-0044

ISSUES		
1	01/31/2020	BID PACKAGE #6 – SCOPING SET
2	02/21/2020	BID PACKAGE #6



DRAWN BY: J.A.J.

ENGINEER: J.A.J.

CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

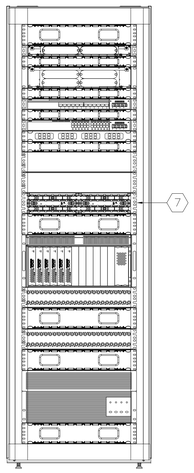
DRAWING TITLE

PODIUM LEVEL (515) SECURITY SYSTEMS PLAN

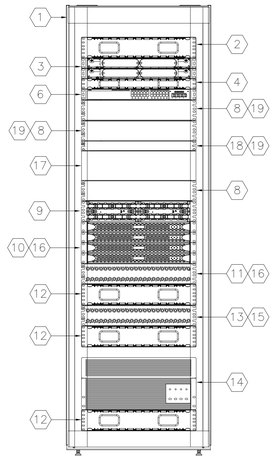
JOB NUMBER: 98090.38

DATE: 02/21/2020

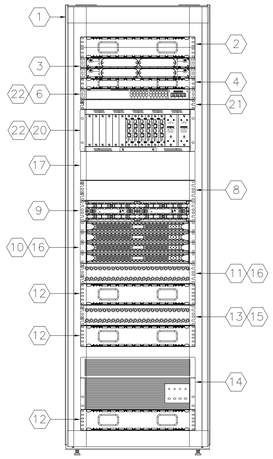
DRAWING NUMBER: TY103A



1 EXISTING CPDWC DISTRIBUTION ENCLOSURE
NOT TO SCALE



2 EXISTING AGREGATION POINT "D" ENCLOSURE
NOT TO SCALE



2 REVISED AGREGATION POINT "D" ENCLOSURE
NOT TO SCALE

GENERAL NOTES:

A. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA-569.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA-606-A.

C. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

D. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH J-STD-607-A AND NFPA 70.

CODED NOTES:

1. EXISTING ORTRONICS MIGHTY-MO EQUIPMENT CABINET 32-INCHES WIDE BY 34-INCHES DEEP BY 80.25-INCHES TALL (42 RACK UNITS) FITTED WITH:
   A. PLEXIGLASS FRONT DOOR (MME4232DFPP-B)
   B. SPLIT MESH REAR DOOR (MMC4232DSFM-B)
   C. SWING, COMBINATION/KEY LOCK (MM-CDHSCK-0333) FRONT AND REAR
   D. SOLID, LOCKING SIDE PANELS (MMCC4234SPSL-B)
   E. TOP PANEL WITH DUAL 235 CFM FANS (MMC3234 TPH1-B)
   F. 66.5-INCH VERTICAL POWER STRIP, 120V. 20A, WITH 24 NEMA-L5-20P (MMCPB12024-01) REQUIRES POWER STRIP VERTICAL MOUNTING BAR (MMC42VPMLS).
   G. VERTICAL MANAGERS (MMC4202VMFL).
2. TWO (2) RACK UNIT WIRE MANAGEMENT PANEL. FRONT AND REAR.
3. FIBER OPTIC PATCH PANEL, 2 RACK UNIT, WITH TWO 12-STRAND DUPLEX SC CONNECTOR PANELS FOR BACKBONE CONNECTS TO CPD WELCOME CENTER SECURITY EQUIPMENT CABINET.
4. ONE (1) RACK UNIT WIRE MANAGEMENT PANEL, FRONT ONLY.
5. FIBER OPTIC PATCH PANEL, 2 RACK UNIT, PROVIDE AND INSTALL ONE (1) NEW 12-STRAND DUPLEX SC CONNECTOR PANEL FOR VIDEO AGGREGATION POINT "D".
6. EXISTING NETWORK SWITCH; CISCO 2960X-24TS-L, 24 port 10/100/1000 WITH 4 SFP UPLINK PORTS. PROVIDE AND INSTALL ONE NEW 1000BASE-LX/LH SFP TRANSCEIVER.
7. EXISTING RACK MOUNTED 110 PANELS (TWO 110 PAIR) FOR EMERGENCY TELEPHONES DMARC. CROSS CONNECT NEW EMERGENCY TELEPHONE POTS LINES TO PROVIDE COMPLETE TELECOMMUNICATIONS CIRCUIT.
8. BLANK FILLER PANEL, 2 RACK UNITS.
9. RACK MOUNTED 110 PANELS (TWO 110 PAIR) FOR EMERGENCY TELEPHONES CROSS CONNECTS. CROSS CONNECT NEW EMERGENCY TELEPHONE POTS LINES TO PROVIDE COMPLETE TELECOMMUNICATIONS CIRCUIT.
10. PELCO RK5200PS-SU RACK MOUNT CHASSIS (5 RACK UNITS) FOR NET 5400T VIDEO ENCODERS. CHASSIS SHALL HAVE DUAL POWER SUPPLIES AND SIX ENCODERS INSTALLED. REMAINING ENCODER SLOTS SHALL BE FITTED WITH BLANKING PLATES.
11. FORTY-EIGHT (48) PORT BNC COUPLER PANEL. REAR OF COUPLER PANEL SHALL BE CABLED TO NET 5400T VIDEO ENCODERS BNC VIDEO INPUT PORTS WITH RG6/U PATCH CABLES.
12. TWO (2) RACK UNIT WIRE MANAGEMENT PANEL, FRONT ONLY.
13. FORTY-EIGHT (48) PORT BNC PATCH PANEL FOR RG6/U VIDEO CABLES FROM CCTV CAMERAS.
14. EXISTING APC SMART-UPS RT 3000VA RACK 208V INPUT 102V/208V. OUTPUT (5 RACK UNITS).
15. EXISTING RG-6 COAX FROM PANEL #13 TO PANEL #11.
16. EXISTING CATEGORY 6 PATCH CABLES FROM ENCODER TO NETWORK SWITCH.
17. EXISTING RACK MOUNTED ANNUNCIATOR PANEL (MODEL 561R) WITH FOUR (4) MULTI-ZONE ANNUNCIATOR MODULES AND ONE (1) ANNUNCIATOR COMMUNICATION MODULE.
18. BLANK FILLER PANEL, 1 RACK UNITS.
19. REMOVE TWO (2) 2 RACK UNIT FILLER PANELS AND ONE (1) 1 RACK UNIT FILLER PANEL.
20. PROVIDE AND INSTALL ONE (1) NEW COMNET COMMUNICATIONS NETWORKS C2-US RACK MOUNT CARD CAGE FITTED WITH SIX (6) COMNET CNGE2MC MEDIA CONVERTERS WITH CNGE2MC SFP-16 MODULES. ALL UNUSED CHASSIS POSITIONS SHALL BE FITTED WITH C1-BP FILLER PANELS.
21. RE-INSTALL EXISTING 1 RACK UNIT BLANK FILLER PANEL.
22. PROVIDE AND INSTALL CATEGORY 6 PATCH CABLES FROM MEDIA CONVERTER TO NETWORK SWITCH.

ABBREVIATIONS:

APA	=	AGGREGATION POINT "A"
APB	=	AGGREGATION POINT "B"
APC	=	AGGREGATION POINT "C"
APD	=	AGGREGATION POINT "D"
BLK	=	BLANK
CPDWC	=	CINCINNATI POLICE DEPARTMENT WELCOME CENTER
ENC	=	ENCODER MODULE
PS	=	POWER SUPPLY

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ISSUES

ISSUES		
1	01/31/2020	BID PACKAGE #6 - SCOPING SET
2	02/21/2020	BID PACKAGE #6

DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

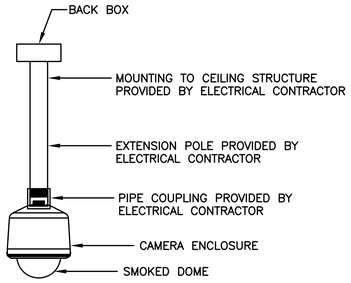
THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

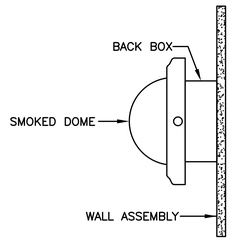
DRAWING TITLE
NETWORK ENCLOSURE DETAILS

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY501



1 PENDANT MOUNTED CAMERA DETAIL
NOT TO SCALE



2 SURFACE MOUNTED CAMERA DETAIL
NOT TO SCALE

GENERAL NOTES:

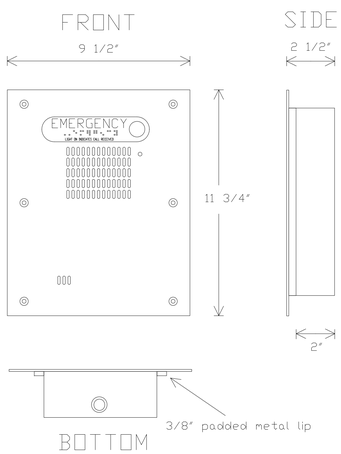
A. DETAILS ARE GENERALLY DIAGRAMMATIC. COORDINATE ALL WORK WITH OWNER AND OTHER TRADES PRIOR TO CONSTRUCTION SO INTERFERENCE IS AVOIDED.

B. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF EIA/TIA–569–B.

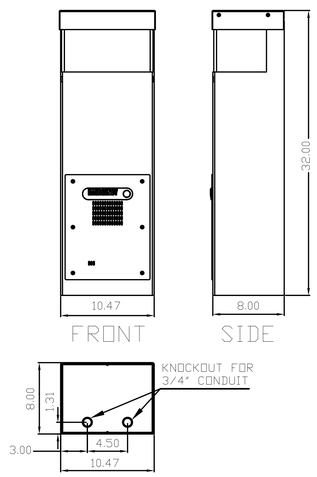
C. TELECOMMUNICATIONS AND SAFETY SYSTEMS INFRASTRUCTURE SHALL BE LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF EIA/TIA–606–A.

D. PROVIDE DEVICE IDENTIFICATION ON ALL DEVICES. LABELS SHALL BE MACHINE GENERATED. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

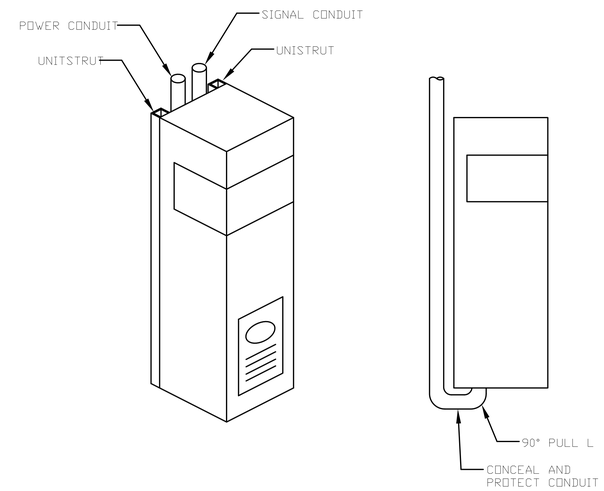
E. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH J–STD–607–A AND NFPA 70.



3 EMERGENCY TELEPHONE MODULE
NOT TO SCALE



4 TELEPHONE WALL MOUNT ENCLOSURE
NOT TO SCALE



5 ENCLOSURE MOUNT DETAIL
NOT TO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

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BRIGHT TECHNOLOGIES INC.
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PH: 812-623-0044

ISSUE	DATE	DESCRIPTION
1	01/31/2020	BID PACKAGE 8B – SCOPING SET
2	02/21/2020	BID PACKAGE 8B

DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
CCTV AND TELEPHONE ENCLOSURE MOUNTING DETAILS

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY502

SECURITY EQUIPMENT INFORMATION

Project #	Phase 3B, BID PACKAGE 6
Project Name:	Central Riverfront Safety System
*Status:	Design
Date:	2/19/2020

	Tag	Equip Type	Design Package	Pwr Source	Volt	Phase	Load	ALARM OUT TO	ALARM IN FROM	Lot	Level	CL	Sheet #	FB	IB	UPS	System Type	Head End	Notes
1	MCE001	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PA1/W32.3	TY101B	SI	EC	Y	CCTV	APD	
2	MCE002	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PA2/W32	TY101B	SI	EC	Y	CCTV	APD	
3	MCE003	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PF1/W21	TY101B	SI	EC	Y	CCTV	APD	
4	MCE004	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PF1/W21	TY101B	SI	EC	Y	CCTV	APD	
5	MCE005	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PH1.7/W18.8	TY101B	SI	EC	Y	CCTV	APD	
6	MCE006	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 27	489	PH1.7/W13.4	TY101A	SI	EC	Y	CCTV	APD	
7	MCE007	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PE1/W20	TY101B	SI	EC	Y	CCTV	APD	
8	MCE008	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PD1.6/W18.4	TY101B	SI	EC	Y	CCTV	APD	
9	MCE009	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PB1/W21	TY101B	SI	EC	Y	CCTV	APD	
10	MCE009	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PB1/W21	TY101B	SI	EC	Y	CCTV	APD	
11	MCE010	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 23	489	PA2/W20	TY101B	SI	EC	Y	CCTV	APD	
12	MCE011	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 27	489	PG1/W18	TY101A	SI	EC	Y	CCTV	APD	
13	MCE012	Media Converter Enclosure/LV Power Supply	PH IIIB/BP 6	NOTE 1	120	1	125W			Lot 27	489	PD1/W18.7	TY101A	SI	EC	Y	CCTV	APD	
14	EP41	Emergency Phone	PH IIIB/BP 6	NOTE 2	120	1	125W	PTZ139		Lot 23	489	PC1/W32.3	TY101B	SI	EC	Y	EP	POTS	NOTE 7
15	EP42	Emergency Phone	PH IIIB/BP 6	NOTE 1	120	1	50W	PTZ150		Lot 23	489	PD1.8/W18.8	TY101B	SI	EC	Y	EP	POTS	NOTE 7
16	EP43	Emergency Phone	PH IIIB/BP 6	NOTE 1	120	1	50W	PTZ144		Lot 23	489	PH1/W18.8	TY101B	SI	EC	Y	EP	POTS	NOTE 7
17	EP44	Emergency Phone	PH IIIB/BP 6	NOTE 1	120	1	50W	PTZ145		Lot 27	489	PH1.7/W11	TY101A	SI	EC	Y	EP	POTS	NOTE 7
18	DB15	Duress Button	PH IIIB/BP 6	NA				PTZ137		Lot 23	489	PB1/W34	TY101A	SI	EC	NA	DB	APD	NOTE 7
19	DB16	Duress Button	PH IIIB/BP 6	NA				PTZ138		Lot 23	489	PB1/W33	TY101A	SI	EC	NA	DB	APD	NOTE 7
20	DB17	Duress Button	PH IIIB/BP 6	NA				PTZ142		Lot 23	489	PG1/W20.2	TY101A	SI	EC	NA	DB	APD	NOTE 7
21	DB18	Duress Button	PH IIIB/BP 6	NA				PTZ143		Lot 23	489	PG1/W20.2	TY101A	SI	EC	NA	DB	APD	NOTE 7
22	PTZ137	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE001	48VDC	PoE	13W		DB15	Lot 23	489	PZ.8/W34	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CEILING/PENDANT MOUNTED
23	PTZ138	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE001	48VDC	PoE	13W		DB16	Lot 23	489	PZ.8/W33	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CEILING/PENDANT MOUNTED
24	PTZ139	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE002	48VDC	PoE	13W		EP41	Lot 23	489	PD1/W32	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CORNER MOUNED ON THE COLUMN
25	PTZ140	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE002	48VDC	PoE	13W			Lot 23	489	PB1/W31	TY101B	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
26	PTZ141	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE009	48VDC	PoE	13W			Lot 23	489	PF1/W24	TY101B	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
27	PTZ142	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE003	48VDC	PoE	13W		DB17	Lot 23	489	PF1/W21	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CEILING/PENDANT MOUNTED
28	PTZ143	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE003	48VDC	PoE	13W		DB18	Lot 23	489	PF1/W20.2	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CEILING/PENDANT MOUNTED
29	PTZ144	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE005	48VDC	PoE	13W		EP43	Lot 23	489	PH1.7/W18.8	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CORNER MOUNED ON THE COLUMN
30	PTZ145	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE006	48VDC	PoE	13W		EP44	Lot 27	489	PH1.7/W13.4	TY101A	SI	EC	Y	CCTV	APD	NOTE 8, CORNER MOUNED ON THE COLUMN
31	PTZ146	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE011	48VDC	PoE	13W			Lot 27	489	PG1/W18	TY101A	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
32	PTZ147	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE011	48VDC	PoE	13W			Lot 27	489	PF1/W12.4	TY101A	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
33	F148	Fixed Camera	PH IIIB/BP 6	MCE008	48VDC	PoE	7W			Lot 23	489	PE1/W18.4	TY101B	SI	EC	Y	CCTV	APD	CEILING MOUNTED
34	FE149	Fixed Elevator Camera	PH IIIB/BP 6	MCE007	48VDC	PoE	3W		NOTE 10	Lot 23	489	PE1/W20	TY101B	SI	EC	Y	CCTV	APD	CORNER MOUNTED IN ELEVATOR CAB. NOTE 9.
35	PTZ150	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE012	48VDC	PoE	13W		EP42	Lot 23	489	PD1/W18.7	TY101B	SI	EC	Y	CCTV	APD	NOTE 8, CORNER MOUNED ON THE COLUMN
36	PTZ151	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE010	48VDC	PoE	13W			Lot 27	489	PB1/W12.4	TY101A	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
37	PTZ152	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE009	48VDC	PoE	13W			Lot 27	489	PB1/W21	TY101A	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
38	BW14	Wireless Access Node	PH IIIB/BP 6	MCE005	48VDC	PoE	10W			Lot 23	489	PP2/W20.2	TY101A	SI	EC	Y	CCTV	APD	FACE MOUNED ON THE COLUMN

ABBREVIATIONS

APA: AGGREGATION POINT A — EXISTING
APB: AGGREGATION POINT B — EXISTING
APC: AGGREGATION POINT B — EXISTING
APD: AGGREGATION POINTD — EXISTING
PH IIIB/BP 6 Phase 3B, BID PACKAGE 6
CCTV: CLOSED CIRCUIT TELEVISION
CL: COLUMN LINE
CPDWC: CINCINNATI POLICE DEPARTMENT WELCOME CENTER
DB: DURESS BUTTON
EC: ELECTRICAL CONTRACTOR
EP: EMERGENCY PHONE
F: FIXED

FB: FURNISHED BY
IB: INSTALLED BY
LVT: LOW VOLTAGE TRANSFORMER
NET: NETWORK
NI: NETWORK INTEGRATOR
PTZ: PAN/TILT/ZOOM
POE: POWER OVER ETHERNET
POTS: PLAIN OLD TELEPHONE SERVICE
SI: SECURITY INTEGRATOR
UPS: UNITERUPTABLE POWER SUPPLY

Notes:
1. Refer to electrical plans for 120V power sources.
2. Electrical Contractor to provide all conduit.
3. Electrical Contractor to provide all 120V power conduit/wiring and associated fittings/supports.
4. Security Integrator to make final signal and power terminations at CCTV equipment.
5. Low Voltage wiring to be installed by Electrical Contractor, terminated by Security Integrator .
6. Security Integrator to provide, install and test all fiber optic cabling, copper unshielded twisted pair cabling and associated patch cables and cross-connections.
7. Emergency Telephone and Duress Alarm output cables terminate at the indicated camera alarm input.
8. CCTV alarm inputs from the indicated device terminate at the indicated camera alarm input.
9. Coordinate installation of the elevator camera with the elevator contractor.
10. Elevator cab telephone shall provide alarm trigger (output) to an existing encoder in Aggreegation Point D.

1 SECURITY EQUIPMENT SCHEDULE (ELEV. 489)
NOT TO SCALE

SECURITY EQUIPMENT INFORMATION

Project #	Phase 3B, BID PACKAGE 6
Project Name:	Central Riverfront Safety System
*Status:	Design
Date:	2/19/2020

	Tag	Equip Type	Design Package	Pwr Source	Volt	Phase	Load	ALARM OUT TO	ALARM IN FROM	Lot	Level	CL	Sheet #	FB	IB	UPS	System Type	Head End	Notes
1	EP42	Emergency Phone	PH IIIB/BP 6	NOTE 1	120	1	50W	PTZ155		Lot 23	500	PD1.8/W18.8	TY102B	SI	EC	Y	EP	POTS	NOTE 7
2	PTZ153	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE010	48VDC	PoE	13W			Lot 23	500	PA2/W20	TY102B	SI	EC	Y	CCTV	APD	CORNER MOUNED ON THE COLUMN
3	F154	Fixed Camera	PH IIIB/BP 6	MCE008	48VDC	PoE	7W			Lot 23	500	PD1.6/W18.4	TY102B	SI	EC	Y	CCTV	APD	CEILING MOUNTED
4	PTZ155	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE012	48VDC	PoE	13W		EP45	Lot 23	500	PE1/W18.7	TY102B	SI	EC	Y	CCTV	APD	NOTE 8, CORNER MOUNED ON THE COLUMN
5	PTZ156	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE004	48VDC	PoE	13W			Lot 23	500	PF1/W22.3	TY102B	SI	EC	Y	CCTV	APD	POLE MOUNTED. COORDINATE INSTALLATION WITH LIGHTING POLE INSTALLER
6	PTZ157	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	MCE004	48VDC	PoE	13W			Lot 23	500	PB.5/W31	TY102B	SI	EC	Y	CCTV	APD	POLE MOUNTED. COORDINATE INSTALLATION WITH LIGHTING POLE INSTALLER

ABBREVIATIONS

APA: AGGREGATION POINT A — EXISTING
APB: AGGREGATION POINT B — EXISTING
APC: AGGREGATION POINT B — EXISTING
APD: AGGREGATION POINTD — EXISTING
PH IIIB/BP 6 Phase 3B, BID PACKAGE 6
CCTV: CLOSED CIRCUIT TELEVISION
CL: COLUMN LINE
CPDWC: CINCINNATI POLICE DEPARTMENT WELCOME CENTER
DB: DURESS BUTTON
EC: ELECTRICAL CONTRACTOR
EP: EMERGENCY PHONE
F: FIXED

FB: FURNISHED BY
IB: INSTALLED BY
LVT: LOW VOLTAGE TRANSFORMER
NET: NETWORK
NI: NETWORK INTEGRATOR
PTZ: PAN/TILT/ZOOM
POE: POWER OVER ETHERNET
POTS: PLAIN OLD TELEPHONE SERVICE
SI: SECURITY INTEGRATOR
UPS: UNITERUPTABLE POWER SUPPLY

Notes:
1. Refer to electrical plans for 120V power sources.
2. Electrical Contractor to provide all conduit.
3. Electrical Contractor to provide all 120V power conduit/wiring and associated fittings/supports.
4. Security Integrator to make final signal and power terminations at CCTV equipment.
5. Low Voltage wiring to be installed by Electrical Contractor, terminated by Security Integrator .
6. Security Integrator to provide, install and test all fiber optic cabling, copper unshielded twisted pair cabling and associated patch cables and cross-connections.
7. Emergency Telephone and Duress Alarm output cables terminate at the indicated camera alarm input.
8. CCTV alarm inputs from the indicated device terminate at the indicated camera alarm input.

2 SECURITY EQUIPMENT SCHEDULE (ELEV. 500)
NOT TO SCALE

SECURITY EQUIPMENT INFORMATION

Project #	Phase 3B, BID PACKAGE 6
Project Name:	Central Riverfront Safety System
*Status:	Design
Date:	2/19/2020

	Tag	Equip Type	Design Package	Pwr Source	Volt	Phase	Load	ALARM OUT TO	ALARM IN FROM	Lot	Level	CL	Sheet #	FB	IB	UPS	System Type	Head End	Notes
1	PTZ158	Pan/Tilt/Zoom Camera	PH IIIB/BP 6	NOTE 9	48VDC	PoE	13W			Lot 24	515	PT/W35	TY103A	SI	EC	Y	CCTV	APD	FACE MOUNED ON THE COLUMN

ABBREVIATIONS

APA: AGGREGATION POINT A — EXISTING
APB: AGGREGATION POINT B — EXISTING
APC: AGGREGATION POINT B — EXISTING
APD: AGGREGATION POINTD — EXISTING
PH IIIB/BP 6 Phase 3B, BID PACKAGE 6
CCTV: CLOSED CIRCUIT TELEVISION
CL: COLUMN LINE
CPDWC: CINCINNATI POLICE DEPARTMENT WELCOME CENTER
DB: DURESS BUTTON
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SI: SECURITY INTEGRATOR
UPS: UNITERUPTABLE POWER SUPPLY

Notes:
1. Refer to electrical plans for 120V power sources.
2. Electrical Contractor to provide all conduit.
3. Electrical Contractor to provide all 120V power conduit/wiring and associated fittings/supports.
4. Security Integrator to make final signal and power terminations at CCTV equipment.
5. Low Voltage wiring to be installed by Electrical Contractor, terminated by Security Integrator .
6. Security Integrator to provide, install and test all fiber optic cabling, copper unshielded twisted pair cabling and associated patch cables and cross-connections.
7. Emergency Telephone and Duress Alarm output cables terminate at the indicated camera alarm input.
8. CCTV alarm inputs from the indicated device terminate at the indicated camera alarm input.
9. PTZ158 shall be powered from a PoE injector (Axis T8120), provided and installed under this contract, in the Agg D equipment cabinet.

3 SECURITY EQUIPMENT SCHEDULE (ELEV. 515)
NOT TO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

BRIGHT TECHNOLOGIES INC.
25086 Legion Road
Sunman, Indiana 47041
PH. 812-623-0044

ISSUES
1 01/31/2020 BID PACKAGE #6 – SCOPING SET
2 02/27/2020 BID PACKAGE #6

ISSUES

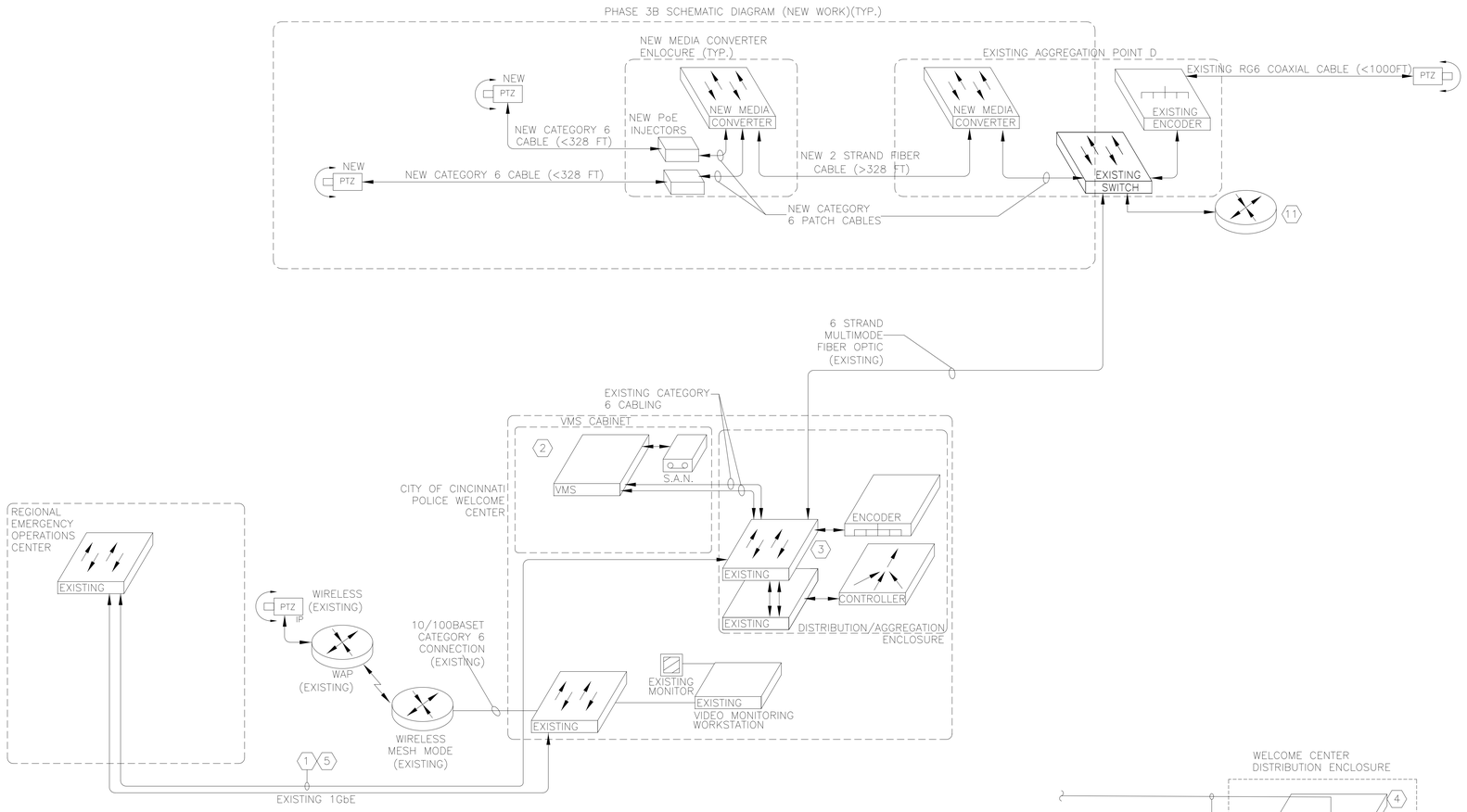
DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

THE BANKS PHASE 3B

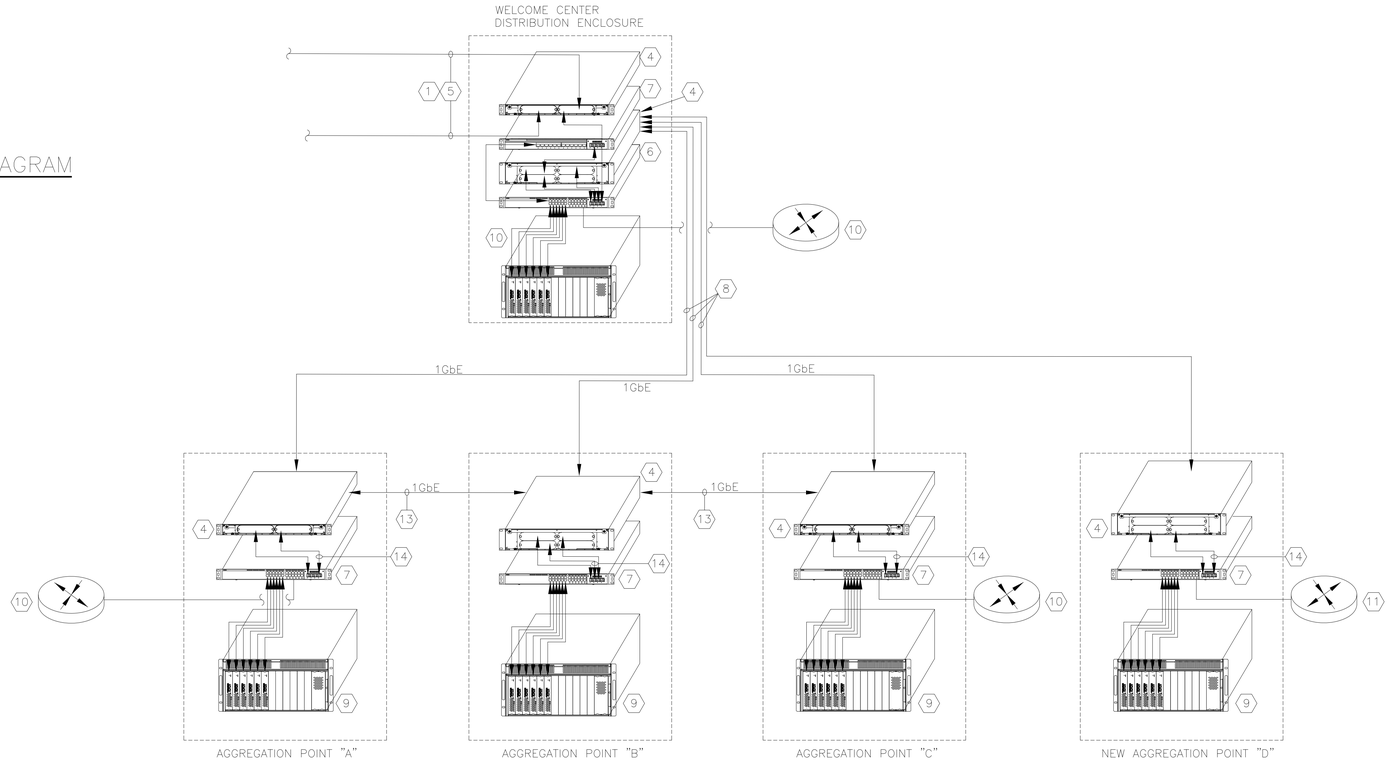
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
SECURITY EQUIPMENT SCHEDULE

JOB NUMBER 98090.38
DATE 02/21/2020
DRAWING NUMBER TY601



1 PUBLIC SAFETY CAMERA NETWORK LOGICAL DIAGRAM
NOT TO SCALE



2 PUBLIC SAFETY CAMERA NETWORK SCHEMATIC DIAGRAM
NOT TO SCALE

GENERAL NOTES:

A. THIS DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE GENERAL ARRANGEMENT OF THE EXISTING CAMPUS AND METROPOLITAN AREA NETWORK.

B. COORDINATE INSTALLATION AND TESTING OF NEW SECURITY SYSTEMS EQUIPMENT WITH THE CITY OF CINCINNATI INFORMATION TECHNOLOGY SECTION IN ADVANCE.

DRAWING NOTES:

1. PRIMARY CONNECTION FROM CENTRAL RIVERFRONT CITY OF CINCINNATI POLICE DEPARTMENT WELCOME CENTER TO THE REGIONAL EMERGENCY OPERATIONS CENTER. EXISTING SINGLEMODE FIBER OPTIC CABLE.
2. EXISTING VIDEO MANAGEMENT SERVER.
3. EXISTING NETWORK SWITCH.
4. EXISTING FIBER OPTIC PATCH PANEL.
5. EXISTING SINGLEMODE FIBER OPTIC CABLES.
6. EXISTING NETWORK DISTRIBUTION SWITCH.
7. EXISTING NETWORK ACCESS SWITCH.
8. EXISTING MULTIMODE FIBER OPTIC CABLE.
9. EXISTING CCTV ENCODER CHASSIS.
10. EXISTING WIRELESS ACCESS POINT FOR WIRELESS MESH NETWORK.
11. NEW WIRELESS ACCESS POINT FOR POINT TO POINT WIRELESS CONNECTION.

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
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Fax: (513) 241-2981

BRIGHT TECHNOLOGIES INC.
25086 Legion Road
Sunman, Indiana 47041
PH: 812-623-0044

ISSUES		
1	01/31/2020	BID PACKAGE #5 - SCOPING SET
2	02/21/2020	BID PACKAGE #6

DRAWN BY: J.A.J.
ENGINEER: J.A.J.
CHECKED BY: J.A.J.

THE BANKS PHASE 3B

LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE
NETWORK SCHEMATIC DIAGRAMS

JOB NUMBER 98090.38
DATE 02/21/2020

DRAWING NUMBER
TY901

GENERAL NOTES

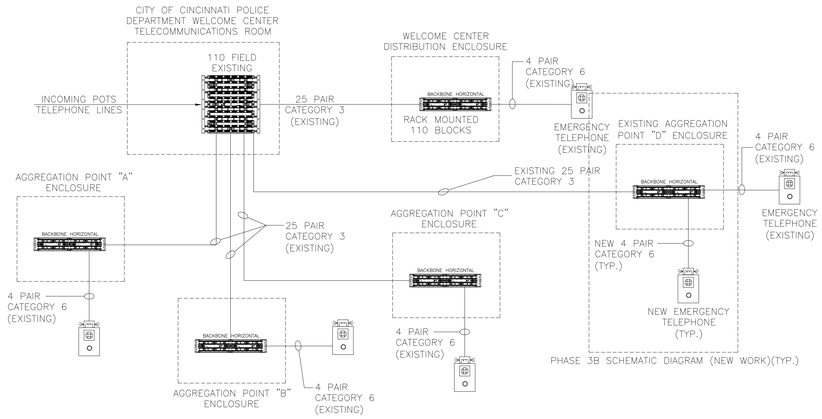
A. THIS DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE GENERAL ARRANGEMENT OF THE EXISTING TELEPHONE DISTRIBUTION CABLING.

B. COORDINATE INSTALLATION AND TESTING OF NEW SECURITY SYSTEMS EQUIPMENT WITH THE CITY OF CINCINNATI INFORMATION TECHNOLOGY SECTION IN ADVANCE.

C. PRIOR TO COMMENCING WORK, MEET WITH CONSTRUCTION MANAGER, CITY OF CINCINNATI POLICE INFORMATION TECHNOLOGY SECTION TO COORDINATHE DELIVERY AND INSTALLATION OF EMERGENCY TELEPHONE CIRCUITS.

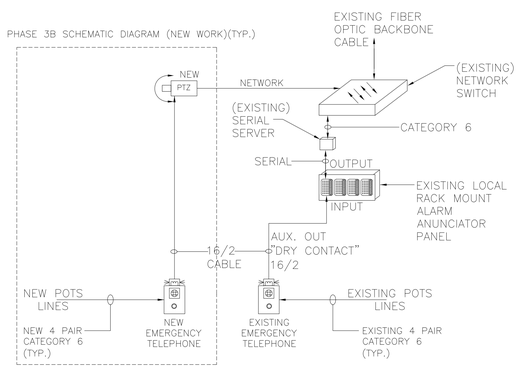
DRAWING NOTES:

1. EXISTING RACK MOUNTED ANNUNCIATOR PANEL WITH FOUR (4) MULTI-ZONE ANNUNCIATOR MODULES AND ONE (1) ANNUNCIATOR COMMUNICATION MODULE.
2. EXISTING WALL MOUNT ANNUNCIATOR PANEL WITH EIGHT (8) MULT-ZONE ANNUNCIATOR MODULES AND ONE (1) ANNUNCIATOR COMMUNICATION MODULE.
3. EXISTING RS485 TO ETHERNET CONVERTER.
4. EXISTING AUTOMATIC VOICE DIALER WITH PRERECORDED OUTGOING VOICE MESSAGE.
5. EXISTING 1 RACK UNIT FIBER OPTIC PATCH PANEL.
6. EXISTING NETWORK DISTRIBUTION SWITCH.
7. EXISTING ACCESS SWITCH 10/100/1000 MbpS ETHERNET, 24 PORT.
8. EXISTING 2 RACK UNIT FIBER OPTIC PATCH PANEL.
9. EXISTING 6-STRAND FIBER OPTIC CABLE.
10. EXISTING PLYWOOD BACKBOARD IN EMERGENCY COMMAND CENTER.



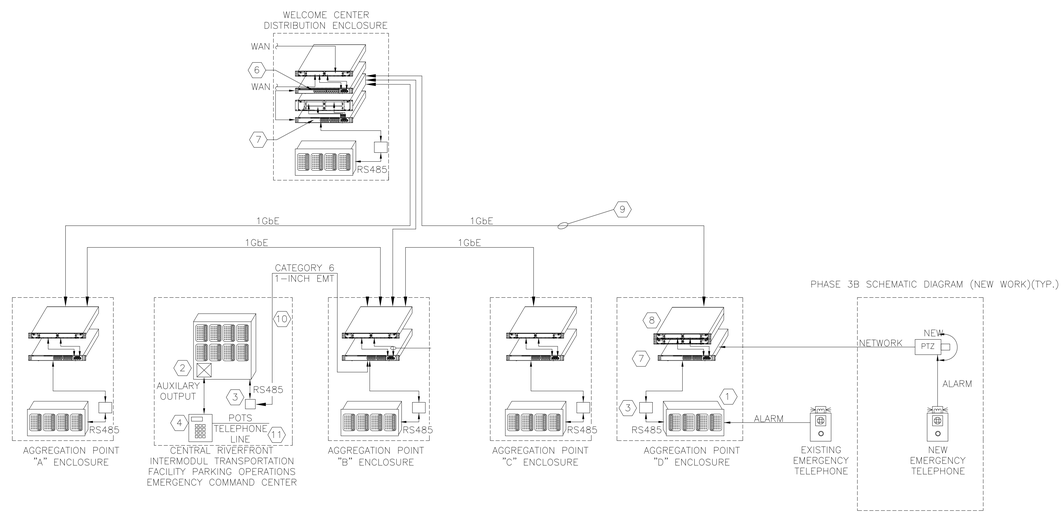
1 EMERGENCY TELEPHONE TELECOMMUNICATIONS SCHEMTAIC DIAGRAM

NOT TO SCALE



2 EMERGENCY TELEPHONE ALARM WIRING SCHEMATIC

NOT TO SCALE



3 EMERGENCY TELEPHONE ANNUNCIATION SCHEMTAIC DIAGRAM (EXISTING)

NOT TO SCALE

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

THP Limited, Inc.
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Fax: (513) 241-2981

BRIGHT TECHNOLOGIES INC.
25086 Legion Road
Sunman, Indiana 47041
PH. 812-623-0044

ISSUES		
1	01/31/2020	BID PACKAGE #6 - SCOPING SET
2	02/21/2020	BID PACKAGE #6

DRAWN BY: J.A.J.

ENGINEER: J.A.J.

CHECKED BY: J.A.J.

THE BANKS PHASE 3B

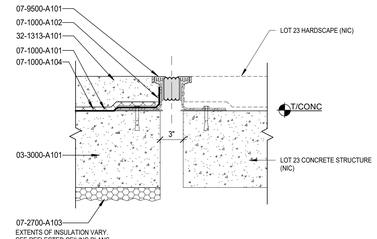
LOT 23/27/28 GARAGE & RACE ST. TURNAROUND

DRAWING TITLE: TELEPHONE RISER DIAGRAMS

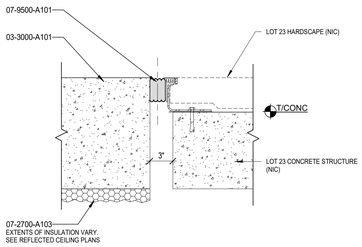
JOB NUMBER: 98090.38

DATE: 02/21/2020

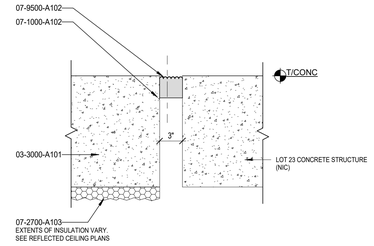
DRAWING NUMBER: TY902



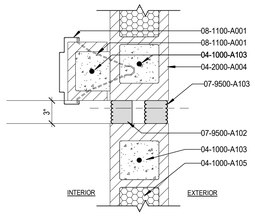
EJ-1
3 / A504 **SECTION DETAIL**
SCALE: 1 1/2" = 1'-0"



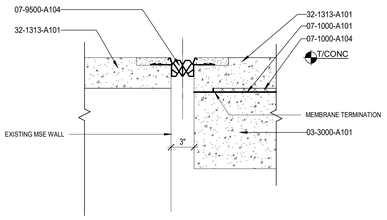
EJ-2
4 / A504 **SECTION DETAIL**
SCALE: 1 1/2" = 1'-0"



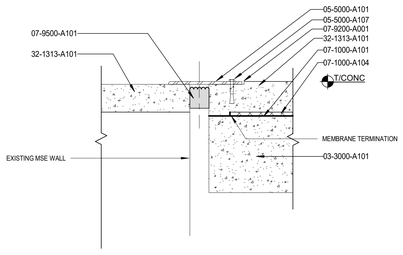
EJ-3
5 / A504 **SECTION DETAIL**
SCALE: 1 1/2" = 1'-0"



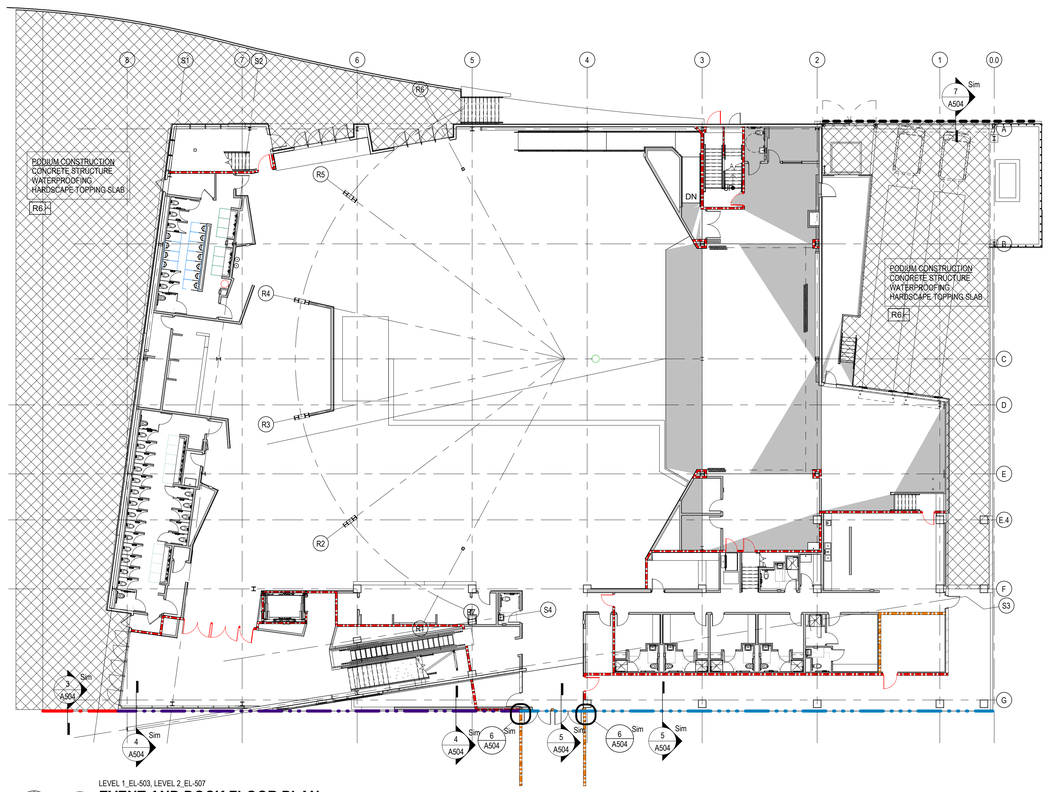
6 / A504 **PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"



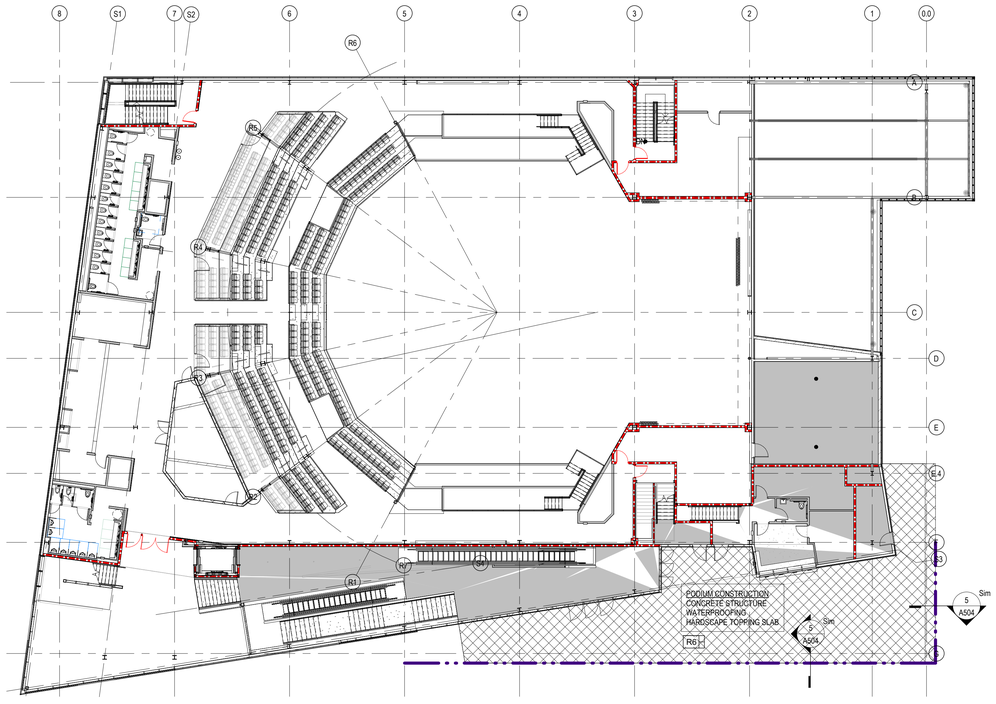
EJ-4
7 / A504 **SECTION DETAIL**
SCALE: 1 1/2" = 1'-0"



EJ-4 ALTERNATE
8 / A504 **SECTION DETAIL**
SCALE: 1 1/2" = 1'-0"



LEVEL 1, EL-503, LEVEL 2, EL-507
1 / A504 **EVENT AND DOCK FLOOR PLAN**
SCALE: 1/16" = 1'-0"



LEVEL 1, EL-503, LEVEL 2, EL-507
2 / A504 **RACE AND BALCONY-1 FLOOR PLAN**
SCALE: 1/16" = 1'-0"

GENERAL NOTES - CONDOC KEYNOTES

The nomenclature of a typical Condoc Keynote is as follows:

e.g.: 09-2216-A004 3-5/8" METAL STUD

The first 6 digits, refer to a Section of the Specifications. The following alpha character refers to the specific Bid Pack. i.e., in this example, Drawing Release "A". The suffix "004" is the specific indicator for a particular item, material, etc. Therefore, the suffix "004" would denote the same item in Section 09-2216, wherever indicated, regardless of referenced Bid Pack.

Various Condoc Keynotes occur on each sheet on which those specific notes are applicable. Where notes are missing from a specific drawing, refer to the Master List of Condoc Keynotes; All Condoc Keynotes applicable to the project are listed on the Master List.

KEYNOTE NUMBER	DESCRIPTION
03-3000-A101	CONCRETE STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
04-1000-A103	GROUT/REINFORCING STEEL
04-1000-A105	BLOCK FILLER
04-2000-A004	CONCRETE MASONRY UNITS. NOMINAL 8-INCH THICK.
05-5000-A101	CHECKERED PLATE
05-5000-A107	EXPANSION ANCHOR
07-1000-A101	REINFORCED WATERPROOFING MEMBRANE
07-1000-A102	MEMBRANE FLASHING
07-1000-A104	DRAINAGE PROTECTION COURSE
07-2700-A103	SPRAY POLYURETHANE FOAM AIR BARRIER
07-9200-A001	SEALANT.
07-9500-A101	WATERTIGHT SPLIT SLAB/PLAZA-DECK EXPANSION JOINT SYSTEM
07-9500-A102	PREFORMED, PRE-COMPRESSED, SELF-EXPANDING, SEALANT SYSTEM
07-9500-A103	PREFORMED, PRE-COMPRESSED, SELF-EXPANDING, FIRE RATED SEALANT SYSTEM
07-9500-A104	THERMOPLASTIC RUBBER JOINT SEAL SYSTEM
08-1100-A001	HOLLOW METAL FRAME.
32-1313-A101	CONCRETE PAVING - SEE CIVIL DRAWINGS

EXPANSION JOINT LEGEND

- EJ-1
- EJ-2
- EJ-3
- EJ-4
- EJ-5

WATERPROOFING LEGEND

AREA OF 07-1000 REINFORCED WATERPROOFING MEMBRANE

GBBN

Project Architect
GBBN Architects Inc.
332 E. 8TH ST.
CINCINNATI, OH 45202-2217
v 513.241.8700

http://www.gbbn.com

MEMI
MUSIC & EVENT MANAGEMENT INC.

The Music Venue at The Banks

THE BANKS, LOT 27
25 RACE STREET
CINCINNATI, OH 45202

OWNER
MUSIC & EVENT MANAGEMENT
409 BROADWAY
CINCINNATI, OH 45202
513.232.6220

CONSTRUCTION MANAGER
MESSER
643 WEST COURT STREET
CINCINNATI, OH 45203
513.242.1541

STRUCTURAL ENGINEER
THP LIMITED, INC.
100 EAST EIGHTH STREET
CINCINNATI, OH 45202
513.241.3222

CONSULTING ENGINEER
CMTA, INC.
222 E 14TH STREET, 4TH FLOOR
CINCINNATI, OH 45202
513.429.4404

CONSULTING ENGINEER
DYNAMIX ENGINEERING
855 GRANDVIEW AVE, SUITE 300
COLUMBUS, OH 43215
614.443.1178

CIVIL / LANDSCAPE
KLEINGERS
6305 CENTRE PARK DRIVE
WEST CHESTER, OH 45069
513.779.7851

THEATRE / ACOUSTIC
HMB-A
1841 FT. HENRY DRIVE
FT. WRIGHT, KY 41011
859.240.1350

FOOD SERVICE
CINI LITTLE INTERNATIONAL, INC.
200 E HOWARD AVE, STE 212
DES PLANES, IL 60018
244.361.8243

Drawing Issue:
CONSTRUCTION DOCUMENTS

No.	Date	Description
1	07/02/19	CONTRACT DOCUMENTS
2	08/30/19	PERMIT
3	02/21/20	BID PACKAGE #6

Drawing Title
WATERPROOFING / EXPANSION JOINT PLANS & DETAILS

Job Number: 13745.01
Scale: As indicated
Date: 06/12/19
Sheet:

A504

12/1/2020 11:53:43 AM C:\Revit.local\13745_MEMI River Venue_ARCH19_emsgarw\0234f-r.rvt

GENERAL NOTES

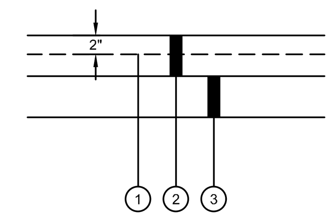
1. THE CITY OF CINCINNATI, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF CINCINNATI REQUIREMENTS, THE CITY OF CINCINNATI REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE HIM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: DIVISION OF WATER, OHIO DEPARTMENT OF NATURAL RESOURCES, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224, (614)2656717.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF CINCINNATI AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

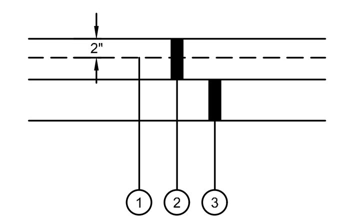
UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES AND CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 4.5' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 4' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG THE PROPOSED TOP OF CASTING ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
25. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CINCINNATI. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF CINCINNATI AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
26. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
27. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER.
28. WATERLINE SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI. (ADD SPECIAL NOTE FOR WATERLINE 2 INCHES AND UNDER TO BE "K" COPPER OR POLYTUBING, MAKE SURE SPEC FOLLOWS)



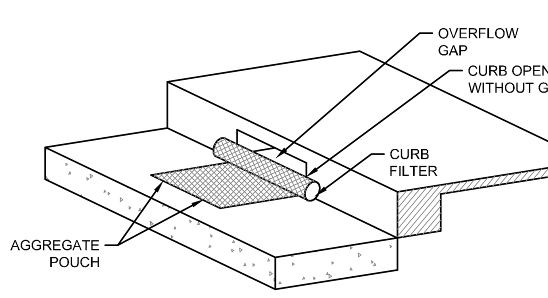
1. 6X6 W4XW4 WELD WIRE REINFORCEMENT
2. 4" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3. STRUCTURAL SLAB

STANDARD DUTY
1/C200 CONCRETE PAVEMENT DETAIL
N.T.S.



1. 6X6 W4XW4 WELD WIRE REINFORCEMENT
2. 6" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3. STRUCTURAL SLAB

HEAVY DUTY
2/C200 CONCRETE PAVEMENT DETAIL
N.T.S.



SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M^2(GAL/MIN/FT^2)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC^{-1}	2.1

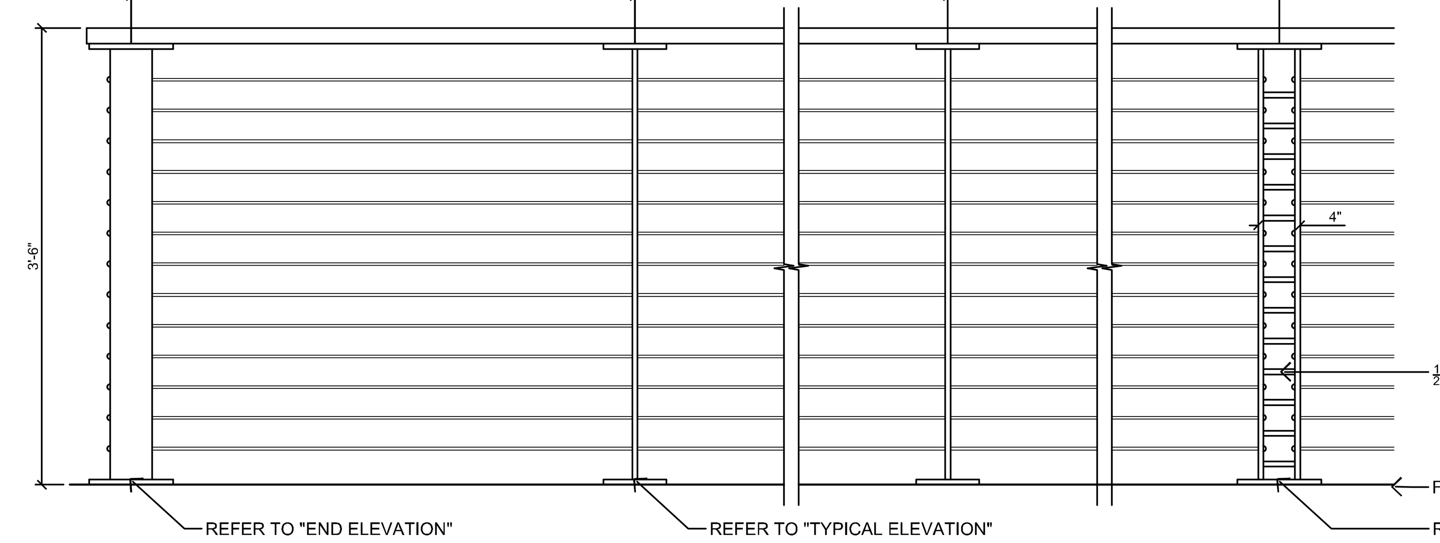
INSTALLATION: PLACE DANDY CURB INLET PROTECTION UNIT ON GROUND WITH AGGREGATE POUCH ON STREET SIDE NEAR INLET IT WILL BE INSTALLED ON. TO INSTALL ABSORBENT, PLACE ABSORBENT SOCK IN POUCH. FILL POUCH WITH AGGREGATE SUCH AS #5-7, 8'S OR SIMILAR TO A LEVEL (AT LEAST 1/2 FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE DANDY CURB AND THE SURFACE OF THE STREET. RESEAL VELCRO ACCESS. CENTER THE UNIT AGAINST THE CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE.

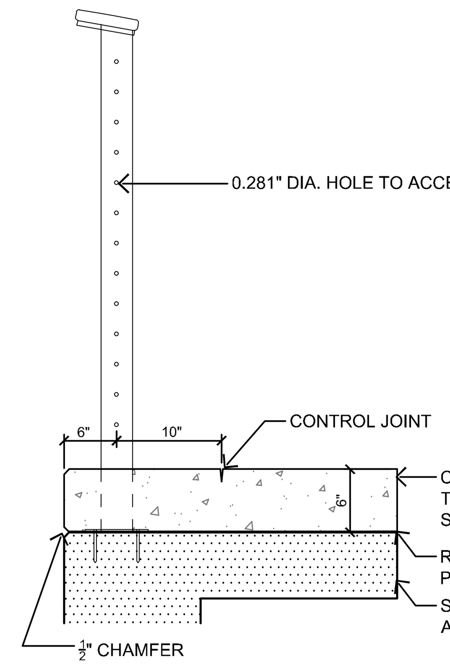
MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED. REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION.

6/C200 DANDY CURB DETAIL
N.T.S.

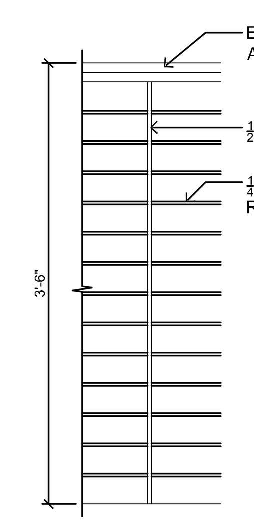
BID PACKAGE #6 NOTES

1. EXTERIOR HANDRAIL EXTENTS - re: C400.
2. PLAZA PAVEMENT - COORDINATE w/ ARCHITECTURAL A504 FOR DETAILS & DESCRIPTIONS.
3. re: RELATED SPECIFICATION SECTIONS {05 5213 & 05 5214, 32 1313 & 33 1100}.

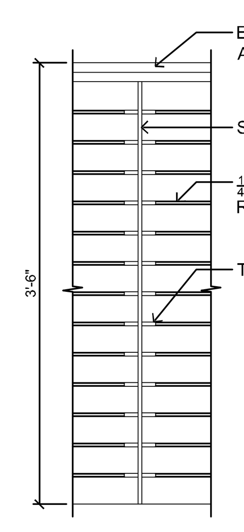




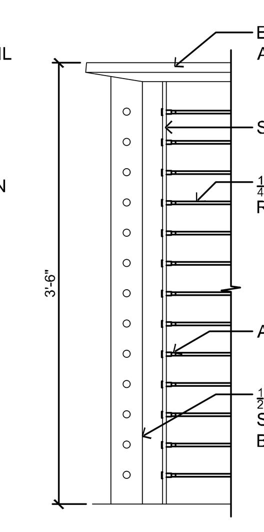
GENERAL NOTE:
1. GUARDRAIL TO MATCH EXISTING GUARDRAIL LOCATED AT SMALE RIVERFRONT PARK. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. CONTRACTOR TO FIELD VERIFY GUARDRAIL / HANDRAIL MEASUREMENTS PRIOR TO SHOP DRAWING SUBMITTAL AND FABRICATION.
2. CONTRACTOR TO COORDINATE HEIGHT / THICKNESS OF FUTURE GRANITE PAVER INSTALLATION TO ENSURE GUARDRAIL HEIGHT IS 3'-6" MINIMUM FROM ADJACENT WALKING SURFACE AND MEETS ALL APPLICABLE LOCAL BUILDING CODE.
3. HORIZONTAL SPACING OF STANCHIONS SHALL NOT EXCEED 4'-0".
4. OPENING BETWEEN ALL ELEMENTS SHALL NOT EXCEED 4".



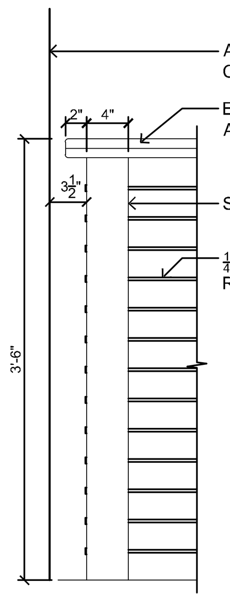
TYPICAL ELEVATION



ROD TERMINUS ELEVATION



90° CORNER ELEVATION



END ELEVATION

IMAGE 1

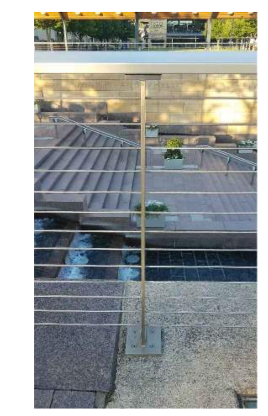
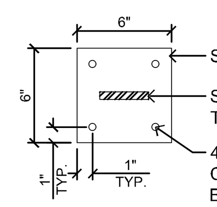


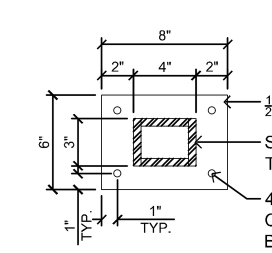
IMAGE 2

FASTENER NOTES:
1. 1/2" Ø FINISHING CAP
2. S.S. SHOULDER WASHER (COVERED)
3. 3/8" x 3 1/2" MIN. S.S. LAG BOLT (COVERED)

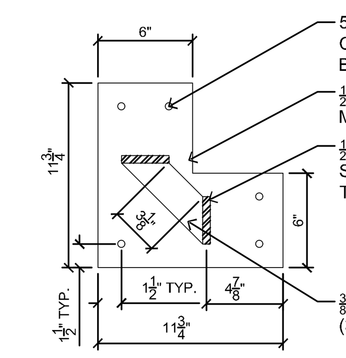
3/C200 GUARDRAIL ELEVATION
1" = 1'-0"



TYP. BASE PLATE PLAN

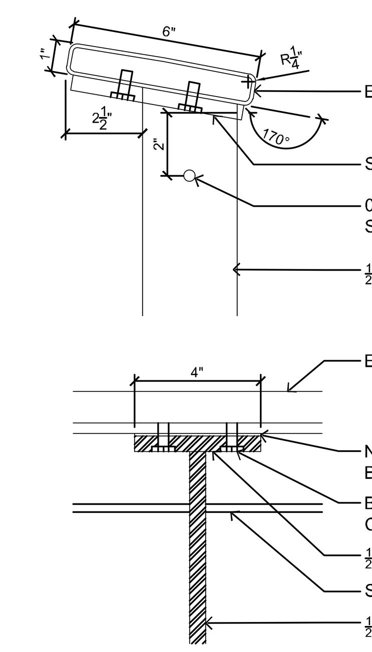


END POST BASE PLATE PLAN

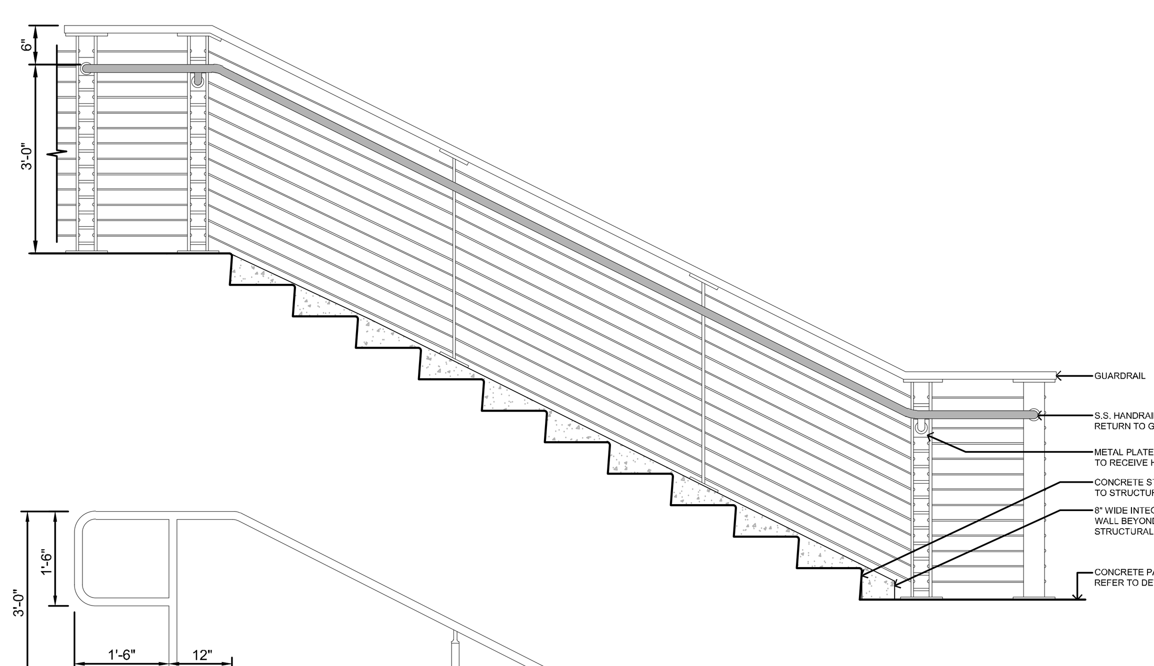


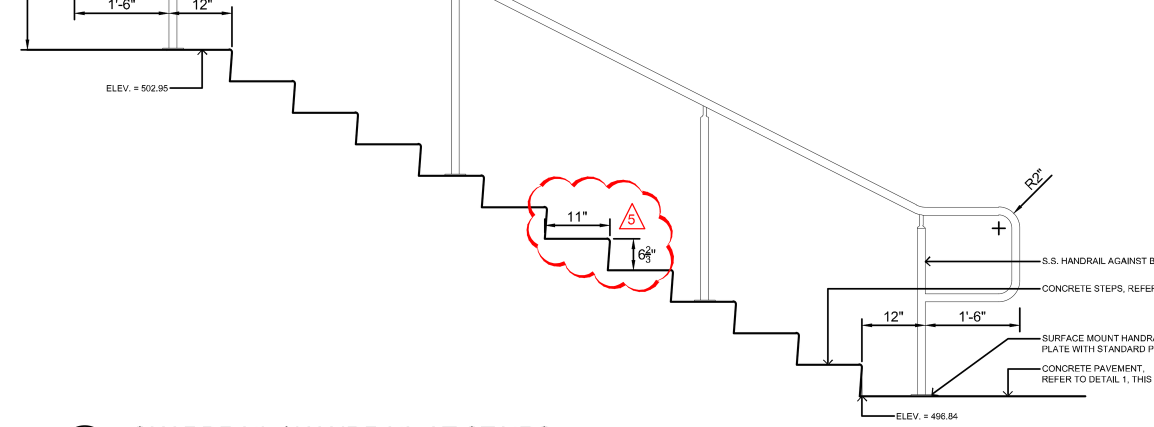
CORNER POST BASE PLATE PLAN

4/C200 GUARDRAIL BASE PLATE
1 1/2" = 1'-0"

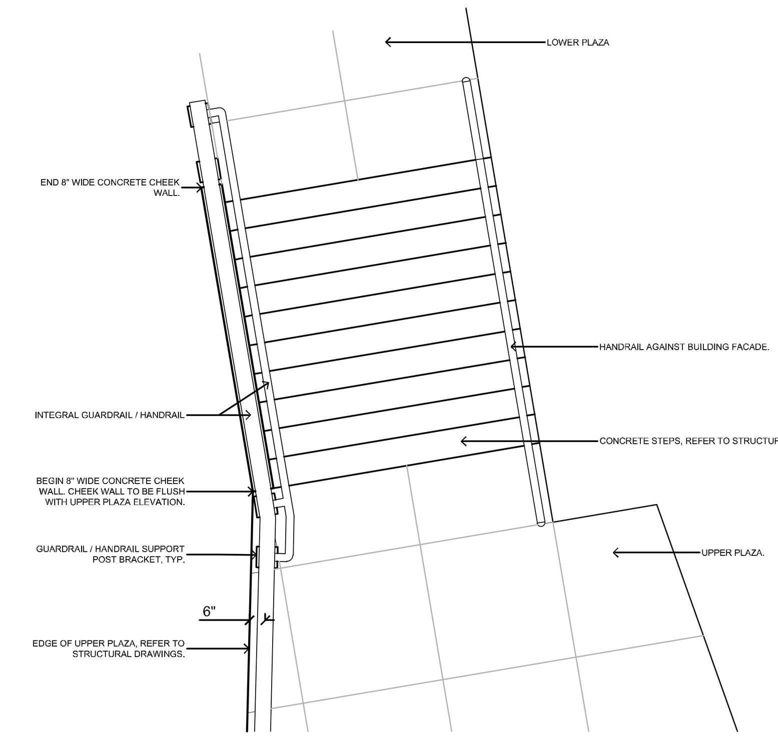


5/C200 GUARDRAIL TOP
3" = 1'-0"





7/C200 GUARDRAIL / HANDRAIL AT STAIRS
1/2" = 1'-0"



8/C200 GUARDRAIL / HANDRAIL AT STAIRS PLAN ENLARGEMENT
1/4" = 1'-0"

SITE CIVIL - SHEET INDEX	
Sheet Number	Sheet Title
C200	GENERAL NOTES AND DETAILS
C300	EROSION CONTROL NOTES
C400	LOCATION PLAN
C500	GRADING AND UTILITY PLAN

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Drawing Issue:

PERMIT SET

No.	Date	Description
1	06/12/19	BID PACKAGE 3
2	07/02/19	CONTRACT DOCUMENTS
3	08/30/19	PERMIT
4	01/31/20	CONSTRUCTION SET . CB #02
5	02/05/20	RFI 074 RESPONSE
6	02/21/20	BID PACKAGE #6

Drawing Title

GENERAL NOTES AND DETAILS

Job Number: 13745.01

Scale:

Date: 06/12/19

Seal:

C200

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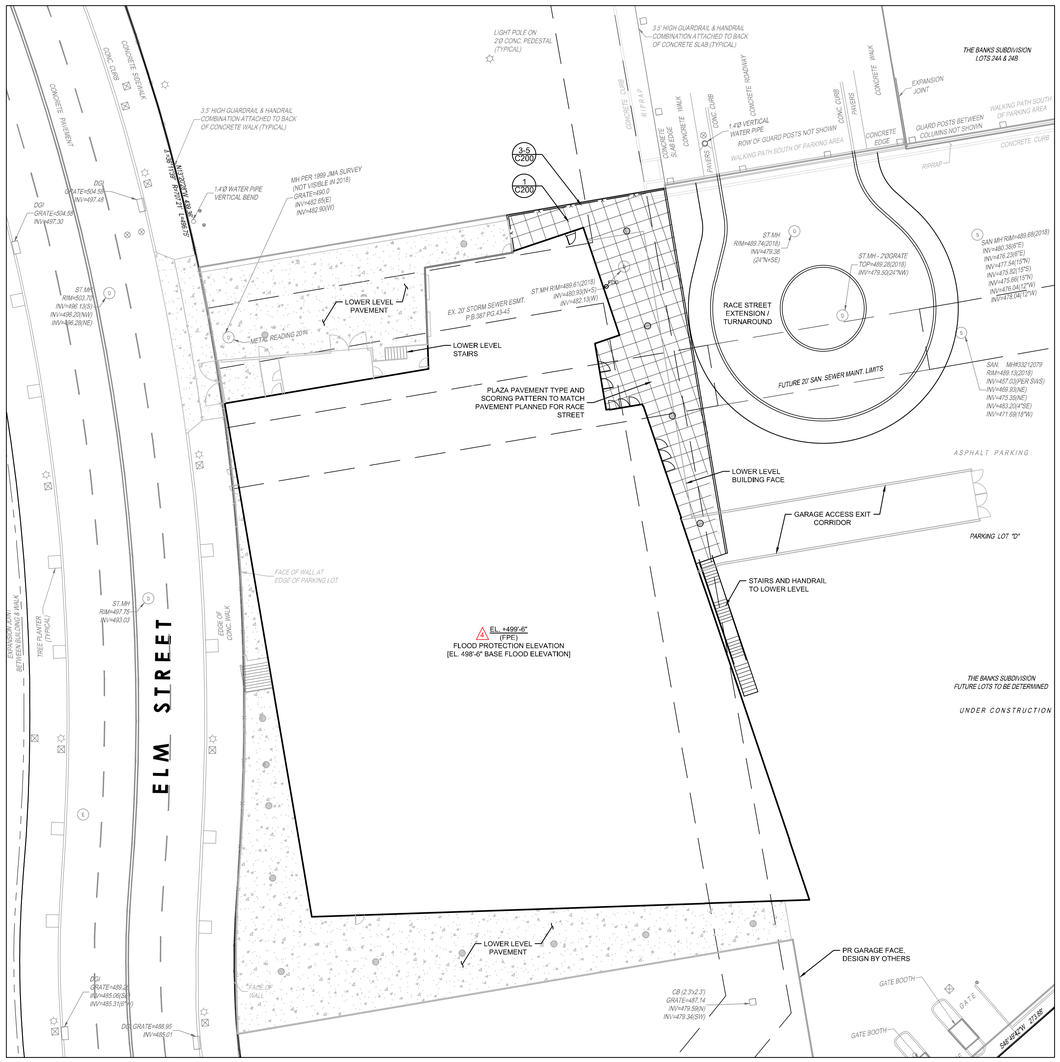
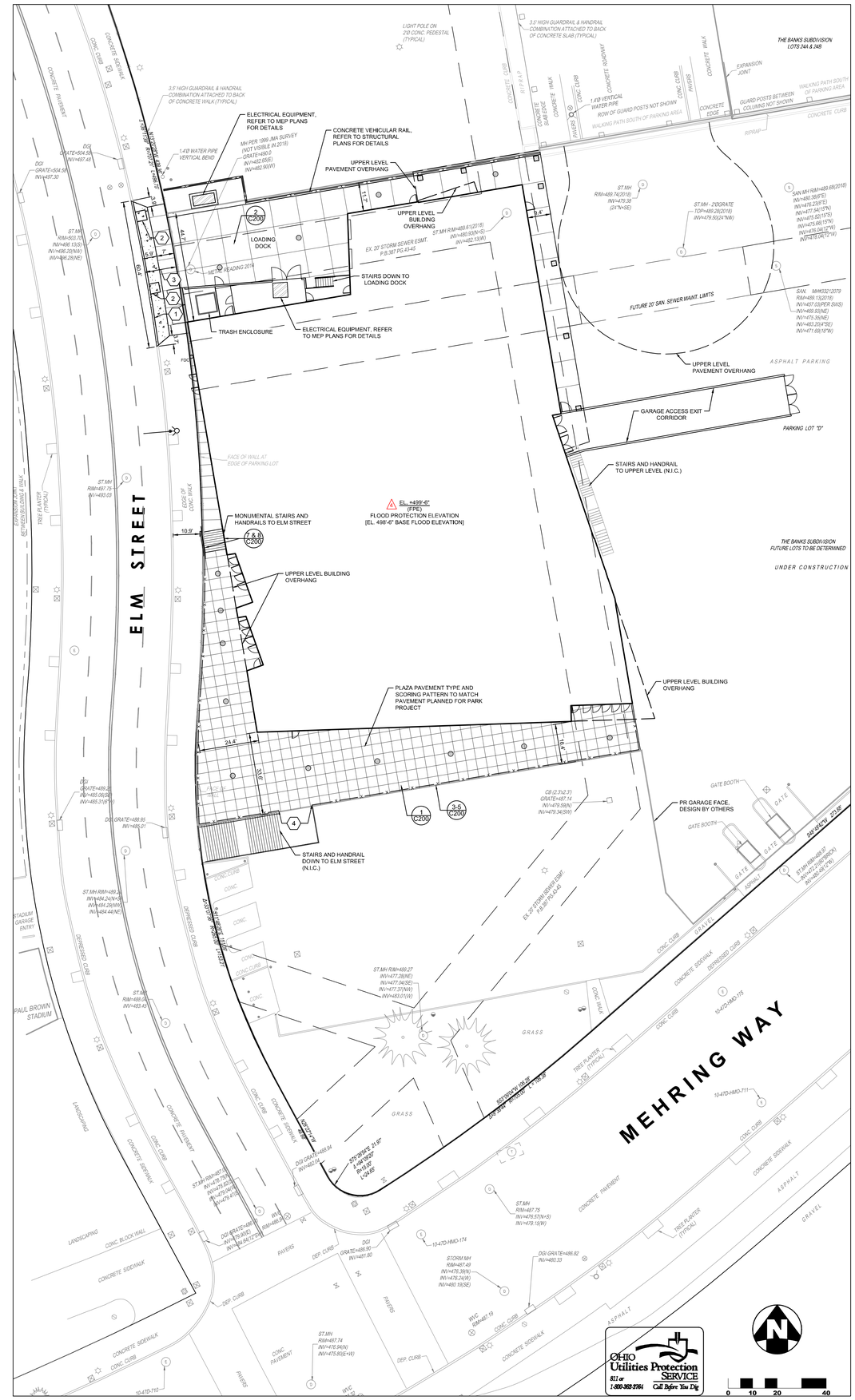


VENUE - UPPER LEVEL



VENUE - LOWER LEVEL

0 10 20 40

CODED NOTES

1. EX. CURB TO BE REMOVED
2. EX. TREE GRATE AND TREE TO BE REMOVED, CONTRACTOR TO COVER COST OF TREE VALUE AS DICTATED BY URBAN FORESTRY
3. PR MOMENT SLAB WALK AND DRIVE ENTRANCE, REFER TO STRUCTURAL PLANS FOR DETAILS
4. CONTRACTOR TO COORDINATE GAURDRAIL TERMINATION AT EXISTING STAIR OPENING

BID PACKAGE #6 NOTES

1. EXTERIOR HANDRAIL EXTENTS - re: 1/C200 & 3-5/C200 REFERENCES.

2. PLAZA PAVEMENT - COORDINATE w/ ARCHITECTURAL A504 FOR DETAILS & DESCRIPTIONS.

3. re: RELATED SPECIFICATION SECTIONS {05 5213 & 05 5214, 32 1313 & 33 1100}.

4. re: PLAN @ RIGHT FOR ELM ST SIDEWALK / APRON RE-WORK.

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PERMIT SET

No.	Date	Description
1	06/12/19	BID PACKAGE 3
2	07/02/19	CONTRACT DOCUMENTS
3	08/30/19	PERMIT
4	10/29/19	PERMIT - REVISED
5	01/31/20	CONSTRUCTION SET . CB #02
6	02/21/20	BID PACKAGE #6

Drawing Title

SITE PLAN

Job Number: 13745.01

Scale:

Date: 06/12/19

Seal:

C400

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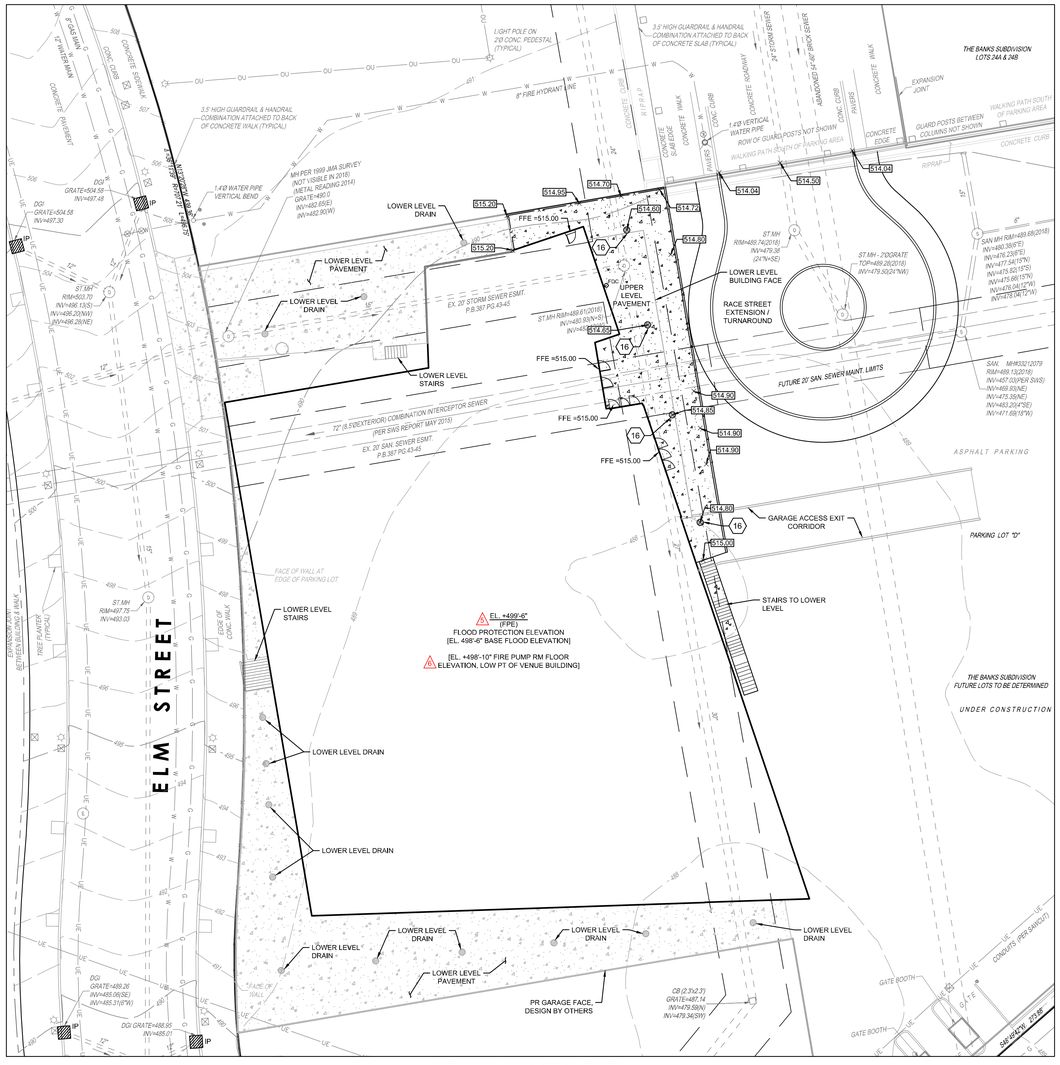
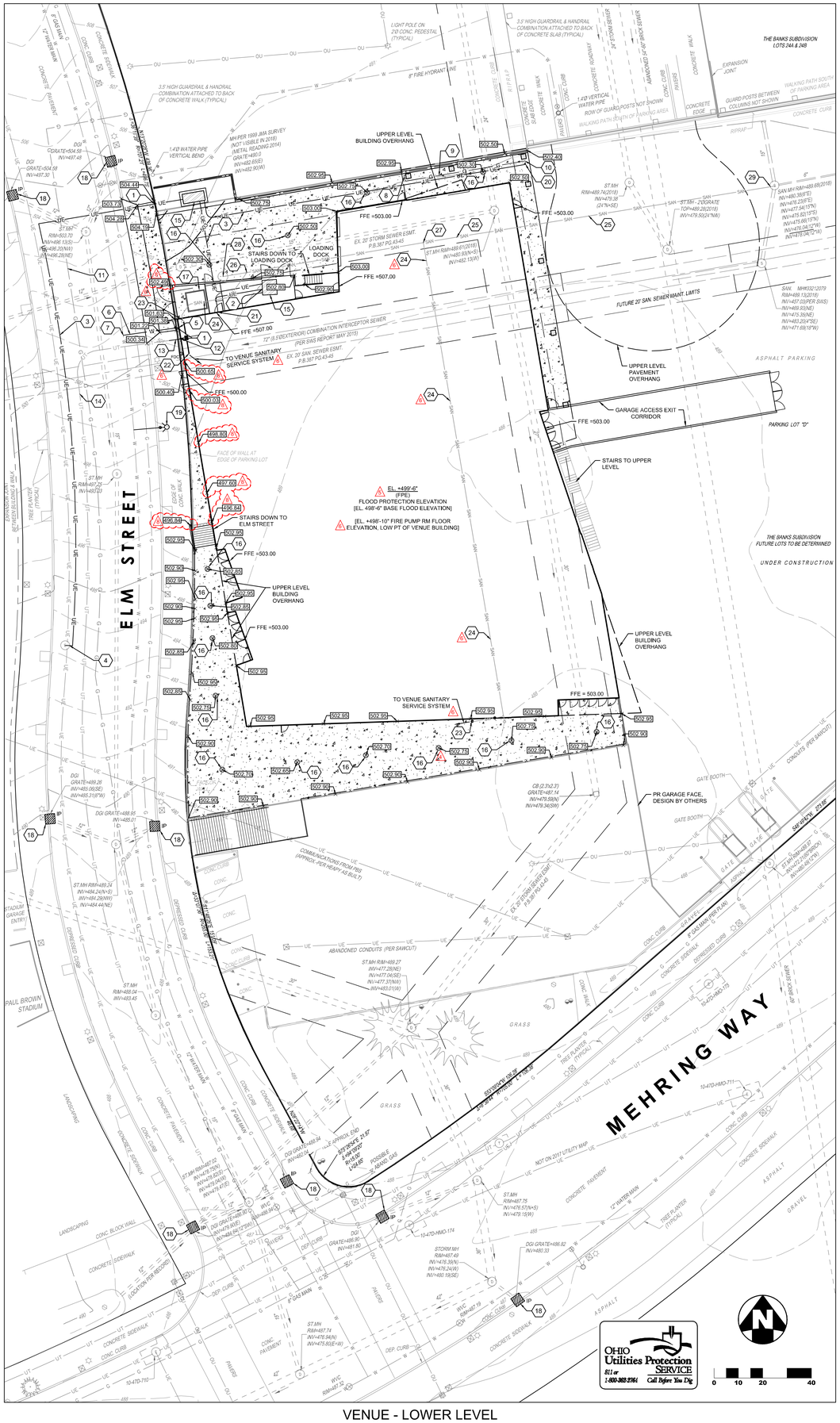


VENUE - UPPER LEVEL



VENUE - LOWER LEVEL

CODED NOTES

1. UTILITY PENETRATION THROUGH MSE WALL
2. UNDERGROUND ELECTRIC CONNECTION TO PR TRANSFORMER, REFER TO MEP PLANS FOR DETAILS
3. PR UNDERGROUND ELECTRIC
4. PR UNDERGROUND ELECTRIC CONNECTION TO EX ELECTRICAL MANHOLE, CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY
5. PR WATER CONNECTION TO BUILDING, REFER TO MEP PLANS FOR CONTINUATION
6. PR 6" WATER
7. PR 6"x12" TAP TO EX WATER MAIN
8. PR GAS METER, REFER TO MEP PLANS FOR CONTINUATION
9. PR GAS
10. PR GAS CONNECTION TO BURIED HDPE GAS SERVICE (BY DUKE ENERGY)
11. GAS LINE BY OTHERS
12. PR COMMUNICATION LINE CONNECTION TO BUILDING, REFER TO MEP PLANS FOR CONTINUATION
13. PR COMMUNICATION LINE CONNECTION TO COMMUNICATION LINE BY OTHERS
14. COMMUNICATION LINE BY OTHERS
15. PR ELECTRICAL EQUIPMENT, REFER TO MEP PLANS FOR DETAILS
16. PR FLOOR DRAIN, REFER TO MEP PLANS FOR PIPE ROUTING
17. PR TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS
18. PR DANDY CURB BAG, REFER TO DETAIL 6, SHEET C200 FOR ADDITIONAL DETAILS
19. PR FIRE HYDRANT, BY OTHERS
20. PR UNDERGROUND ELECTRIC TO SUPPLY LOT 23, REFER TO MEP PLANS FOR DETAILS
21. PR UNDERGROUND ELECTRIC LINE CONNECTION TO BUILDING, REFER TO MEP PLANS FOR CONTINUATION
22. PR VENUE SANITARY SERVICE LINE PER BANKS PHASE 3B: BP#3 (CITY PERMIT #2019 P08022), FOR REFERENCE PURPOSES ONLY, REFER TO VENUE MEP PLANS FOR ALL CONNECTION POINTS AND ADDITIONAL DETAILS
23. PR CONNECTION POINT TO DEDICATED VENUE SEWER LATERAL, FROM VENUE SANITARY SERVICE SYSTEM PER BANKS PHASE 3B: BP#3 (CITY PERMIT #2019 P08022), AND BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO VENUE MEP AND GARAGE MEP PLANS FOR ADDITIONAL DETAILS

CODED NOTES CONT.

24. SEWER LATERAL BY OTHERS DEDICATED TO MUSIC VENUE BUILDING, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM MEP AND CIVIL PLANS FOR ALL CONNECTION POINTS AND ADDITIONAL DETAILS
25. SEWER MAIN BY OTHERS, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM MEP AND CIVIL PLANS FOR ALL CONNECTION POINTS AND ADDITIONAL DETAILS
26. SEWER LATERAL CONNECTION TO SEWER MAIN BY OTHERS, 6" LATERAL TAP INV=478.01, 12" SEWER MAIN INV=477.51, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM CIVIL PLANS FOR ADDITIONAL DETAILS
27. SEWER LATERAL CONNECTION TO SEWER MAIN BY OTHERS, 8" LATERAL TAP INV=477.66, 12" SEWER MAIN INV=477.16, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM CIVIL PLANS FOR ADDITIONAL DETAILS
28. GARAGE SANITARY MH, RIM ELEV=488.43±, PR 12" INV=477.55, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM MEP AND CIVIL PLANS FOR ALL CONNECTION POINTS AND ADDITIONAL DETAILS
29. GARAGE SANITARY LINE CONNECTION TO EX MH, PR 12" INV=476.58, PER BANKS PHASE 3B: BP#2 (CITY PERMIT #2019 P03900), FOR REFERENCE PURPOSES ONLY, REFER TO GARAGE TEAM CIVIL PLANS FOR ALL CONNECTION POINTS AND ADDITIONAL DETAILS

BID PACKAGE #6 NOTES

1. EXTERIOR HANDRAIL EXTENTS - re: 1/C200 & 3-5/C200 REFERENCES, & C400.
2. PLAZA PAVEMENT - COORDINATE w/ ARCHITECTURAL A504 FOR DETAILS & DESCRIPTIONS.
3. re: RELATED SPECIFICATION SECTIONS {05 5213 & 05 5214, 32 1313 & 33 1100}.
4. re: CODED NOTE 5 FOR WATER SERVICE LOCATION.

NOTES:

1. SANITARY SERVICE TAP MATERIAL TO BE 6" PVC SDR-35 @ 2% MINIMUM SLOPE
2. IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKLFOW PREVENTION OR BE PUMPED TO GRAVITY

GBBN

Project Architect
GBBN Architects Inc.
332 E. 8TH ST.
CINCINNATI, OH 45202-2217
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http://www.gbbn.com

MEMI
MUSIC & EVENT MANAGEMENT INC.

The Music Venue at The Banks

THE BANKS, LOT 27
25 RACE STREET
CINCINNATI, OH 45202

OWNER
MUSIC AND EVENT MANAGEMENT
409 BROADWAY
CINCINNATI, OH 45202
513.232.6220

CONSTRUCTION MANAGER
MESSER
643 WEST COURT STREET
CINCINNATI, OH 45203
513.242.1541

STRUCTURAL ENGINEER
THP LIMITED, INC.
100 EAST EIGHTH STREET
CINCINNATI, OH 45202
513.241.3222

CONSULTING ENGINEER
CMTA, INC.
222 E 14TH STREET, 4TH FLOOR
CINCINNATI, OH 45202
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CONSULTING ENGINEER
DYNAMIX ENGINEERING
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6219 CENTRE PARK DRIVE
WEST CHESTER, OH 45069
513.779.7851

THEATRE / ACOUSTIC
HMB-A
1841 FT. HENRY DRIVE
FT. WRIGHT, KY 41011
859.240.1350

FOOD SERVICE
CINCI LITTLE INTERNATIONAL, INC.
200 E HOWARD AVE, STE 212
DES PLANES, IL 60018
244.361.8243

Drawing Issue:

PERMIT SET

No.	Date	Description
1	06/12/19	BID PACKAGE 3
2	07/02/19	CONTRACT DOCUMENTS
3	08/30/19	PERMIT
4	10/11/19	SOUTH GRADE REVISIONS
5	10/29/19	PERMIT - REVISED
6	12/05/19	MSD REVISIONS
7	01/31/20	CONSTRUCTION SET . CB #02
8	02/05/20	RFI 074 RESPONSE
9	02/21/20	BID PACKAGE #6

Drawing Title

GRADING AND UTILITY PLAN

Job Number: 13745.01

Scale:

Date: 06/12/19

Seal:

C500

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