

# DUBLIN COMMUNITY POOL NORTH

## CITY OF DUBLIN

5660 DUBLINSHIRE DR  
DUBLIN, OH 43017

### SITE PLANNING AND ZONING SUBMISSION - 02/20/2020

**MSA** **SPORT**

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msaarch.com | 855.241.5666

**PRELIMINARY**  
NOT FOR  
CONSTRUCTION

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COLUMBUS, OH 43215  
(T): 614.300.3357  
www.msaarch.com

**LANDSCAPE ARCHITECT:**

**MKSK**

462 S LUDLOW ST  
COLUMBUS, OH 43215  
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www.mkskstudio.com

**AQUATIC DESIGNER:**

**WATER TECHNOLOGY INC**

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BEAVER DAM, WI 53916  
(T): 920.887.7375  
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**MEPT ENGINEER:**

**KLH**

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**STRUCTURAL ENGINEER:**

**SCHAEFER**

937 W 3RD AVE  
COLUMBUS, OH 43212  
(T): 614.428.4400  
www.schaefer-inc.com

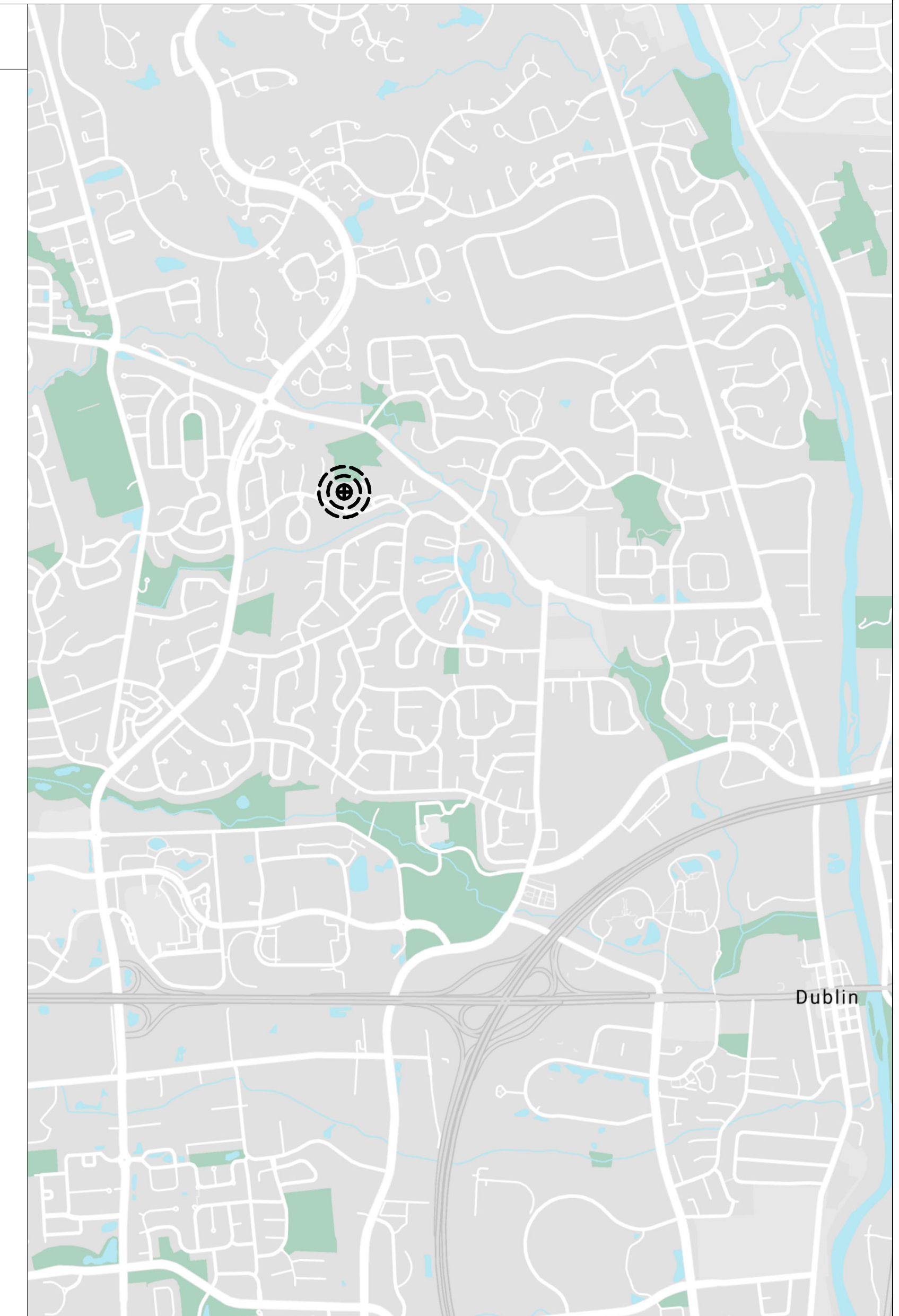
**CIVIL ENGINEER:**

**EMH&T**

5500 NEW ALBANY RD W  
NEW ALBANY, OH 43054  
(T): 614.775.4500  
www.emht.com

**SHEET INDEX**

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DATE	ISSUED
02-20-2020	SITE P&Z SUBMISSION

NO.	DATE	REVISION

PROJECT NO. **18156.00**

DRAWING TITLE  
**COVER SHEET**

**GO.0**



J:\2018142\Drawings\04\Sheets\SD\00\Final Development Plan\20181142 - Existing Conditions & Demo Plan.dwg, Lat. Saved By: wsempie, 3/18/2020 4:52 PM. Last Printed By: Sempie, William, 3/20/2020 12:23 PM (No Xrefs)

Dublinshire Section 3  
P.B. 76, Pg. 64

Reserve A  
2.113 Ac.  
City of Dublin  
O.R. 26517J16

Village of Dublin  
O.R. 10664I03  
26.561 Ac.  
APN  
273-004183

**EXISTING LEGEND**

- |                    |                                 |   |                      |
|--------------------|---------------------------------|---|----------------------|
| .....1131-135..... | Contours                        | ○ | Tree                 |
| - - - - -          | Curb                            | ● | Water Valve          |
| — — — — —          | Edge of Pavement                | ○ | Fire Hydrant         |
| - X - X -          | Fence                           | ○ | Manhole              |
| ○ — ○ — ○ —        | Tree Protection Fence           | ○ | Cleanout             |
| — — — — —          | Swale                           | ○ | Curb Inlet           |
| ~~~~~              | Tree Drip Line                  | □ | Catch Basin          |
| — STM —            | Storm Sewer                     | □ | Electric Manhole     |
| — SAN —            | Sanitary Sewer                  | □ | Telecomm Manhole     |
| — SAS —            | Sanitary Service                | □ | Manhole              |
| — WM —             | Water Main                      | ○ | Fire Hydrant         |
| — FPM —            | Fire Protection Main            | ○ | (DND) Do Not Disturb |
| — FWS —            | Fire Water Service              |   |                      |
| — FHL —            | Fire Hydrant Lead               |   |                      |
| — FDC —            | Fire Department Connection Lead |   |                      |
| — DWS —            | Domestic Water Service          |   |                      |
| — E —              | Electric Conduit                |   |                      |
| — EDB —            | Electric Duct Bank              |   |                      |
| — FDB —            | Fiber Duct Bank                 |   |                      |
| — GM —             | Gas Main                        |   |                      |
| — UGL —            | Street Light Conduit            |   |                      |
| — UDB —            | Utility Duct Bank               |   |                      |
| — OHE —            | Overhead Electric Line          |   |                      |

**PROPOSED LEGEND**

- |             |  |
|-------------|--|
| ○           | Ex. Light Pole<br>(To Be Removed)  |
| ⊗           | Ex. Tree<br>(To Be Removed)  |
| ⊗           | Ex. Tree<br>(To Be Removed)  |
| ▨           | Ex. Asphalt Pavement<br>(To Be Removed)                                    |
| ▩           | Ex. Concrete Pavement<br>(To Be Removed)                                   |
| ▩           | Proposed Area for Pool<br>Excavation<br>(See Plumbing Plans for<br>Depths) |
| ▩           | Inlet Protection   |
| — SF —      | Silt Fence   |
| ○ — ○ — ○ — | Tree Protection Fence  |
| ■           | Concrete Washout Area  |
| (TBR)       | To Be Removed  |
| (TRM)       | To Remain  |
| (TBA)       | To Be Abandoned & Filled<br>In Place                                       |

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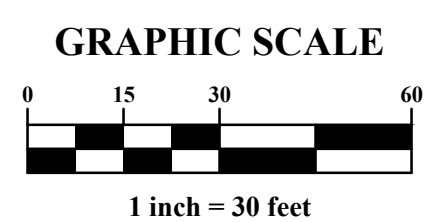
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**DATE** 03/18/2020 **ISSUED** Bid Package 2.75%

**NO. DATE REVISION**

**PROJECT NO.** 18156.00

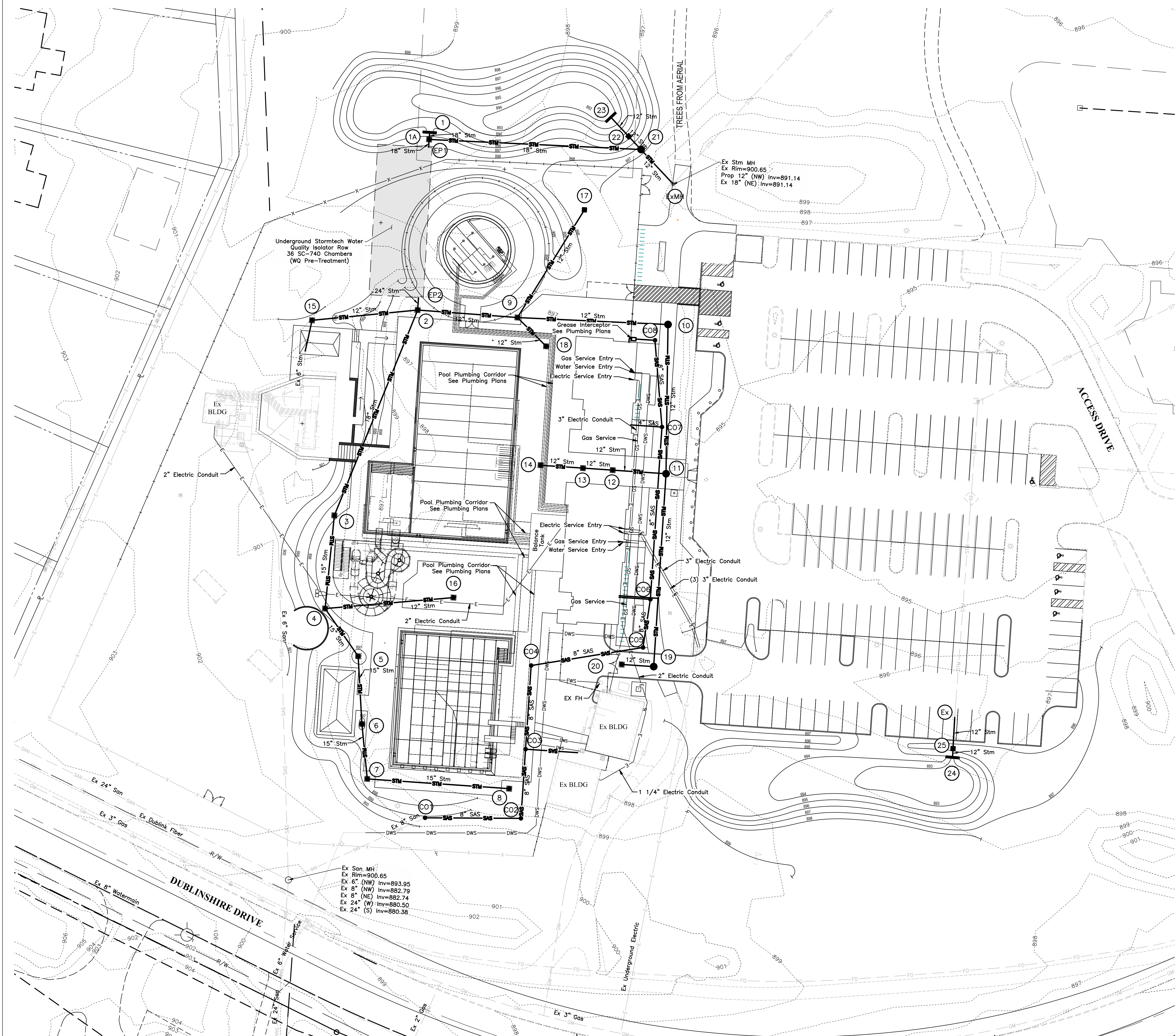
**DRAWING TITLE**  
OVERALL EXISTING  
CONDITIONS PLAN



**C1.0**



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**LEGEND**

Proposed	Existing	
(Solid line)	(Dashed line)	Curb
(Line with 'X' markers)	(Line with 'X' markers)	Edge of Pavement
(Line with 'X' markers)	(Line with 'X' markers)	Fence
(Line with 'X' markers)	(Line with 'X' markers)	Tree Drip Line
(Line with 'X' markers)	(Line with 'X' markers)	Storm Sewer
(Line with 'X' markers)	(Line with 'X' markers)	Sanitary Sewer
(Line with 'X' markers)	(Line with 'X' markers)	Sanitary Service
(Line with 'X' markers)	(Line with 'X' markers)	Water Main
(Line with 'X' markers)	(Line with 'X' markers)	Domestic Water Service
(Line with 'X' markers)	(Line with 'X' markers)	Electric Conduit
(Line with 'X' markers)	(Line with 'X' markers)	Fiber Optic
(Line with 'X' markers)	(Line with 'X' markers)	Fiber Duct Bank
(Line with 'X' markers)	(Line with 'X' markers)	Gas Main
(Line with 'X' markers)	(Line with 'X' markers)	Tree
(Line with 'X' markers)	(Line with 'X' markers)	Water Valve
(Line with 'X' markers)	(Line with 'X' markers)	Fire Hydrant
(Line with 'X' markers)	(Line with 'X' markers)	Manhole
(Line with 'X' markers)	(Line with 'X' markers)	Cleanout
(Line with 'X' markers)	(Line with 'X' markers)	Catch Basin



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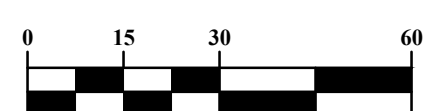
DATE	ISSUED
03/18/2020	Bid Package 2 75%

**NO. DATE REVISION**

PROJECT NO. **18156.00**

DRAWING TITLE  
**UTILITY PLAN**









**GRAPHIC SCALE**



1 inch = 30 feet



## REQUIRED PLANT KEY

	VEHICULAR USE PERIMETER		PERIMETER BUFFER LANDSCAPE
	VEHICULAR USE INTERIOR		FRONT YARD TREE
	BUILDING GROUND COVERAGE		SCREEN HEDGE
	STREET TREE (EXISTING)		10'x20' SITE TRIANGLE

## SITE ZONING DATA

### PARCEL SIZE

TOTAL BOUNDARY 1,242,766.8 S.F. (28.53 ACRES)

### LOT COVERAGE

BUILDING AREA	200,061 S.F. (PRIMARY STRUCTURES)
VEHICULAR USE AREA	66,706 S.F.
HARDSCAPE AREA	86,100 S.F.
TOTAL LOT COVERAGE	352,867 S.F. (28% OF PARCEL)

### PARKING

EXISTING PARKING	144 STANDARD SPACES AND 5 ADA SPACES
PROPOSED PARKING	168 STANDARD SPACES AND 8 ADA SPACES

### PARKING INTERIOR LANDSCAPE REQUIRED

66,706 S.F. X 5% = 3,335 S.F. REQUIRED

3,429 S.F. PROVIDED = 5.1%

PARKING TREES REQUIRED 1 TREE/5000 S.F. LOT

66,706/5,000 = 14 INTERIOR TREES REQUIRED

20 INTERIOR TREES PROVIDED

### PARKING PERIMETER LANDSCAPE

REQUIRED PERIMETER TREES: 1 TREE/40 FT

800 L.F. PARKING PERIMETER = 20 TREES AND HEDGE REQUIRED

23 TREES AND HEDGE PROVIDED

### ADDITIONAL SITE LANDSCAPE - BUILDING COVERAGE

REQUIRED TREES: 1 CALIPER INCH/300 S.F. OF BUILDING GROUND COVERAGE

5,877 S.F. BUILDING COVERAGE = 20 INCHES CALIPER REQUIRED

TREES PROVIDED: EXISTING TREES = 196 CALIPER INCHES  
\*ONLY TREES INDICATED ON TREE SURVEY INCLUDED

### FRONT YARD TREES REQUIRED

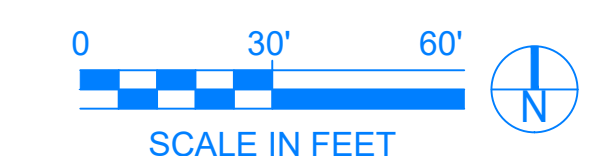
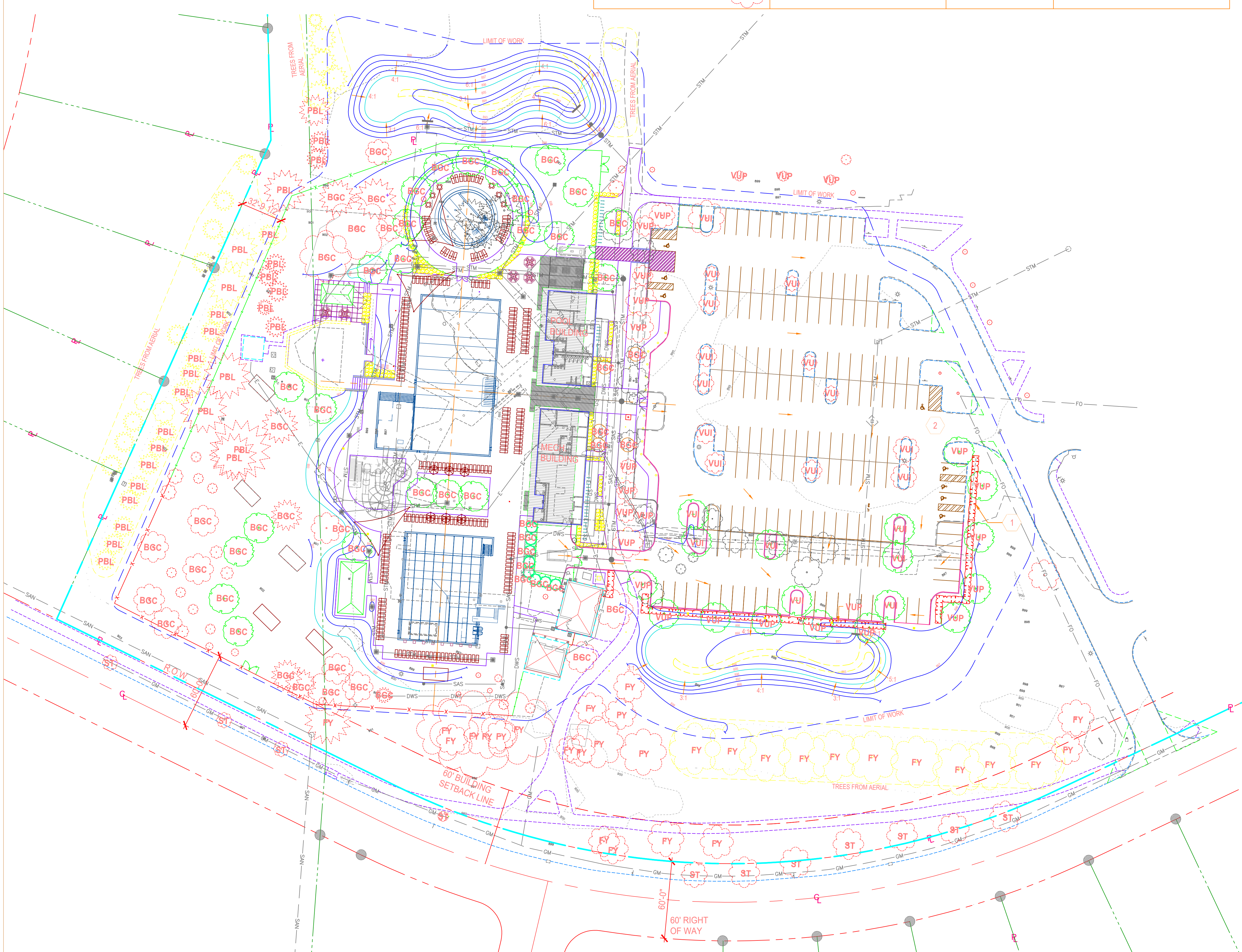
REQUIRED: 2 LARGE TREES AND 1 TREE OF ANY SIZE

EXISTING TREES: 16 LARGE TREES AND 11 OTHER TREES

- TREE PRESERVATION DATA ON TREE PRESERVATION PLAN, L4.0
- REPLACEMENT TREES SHOWN ON LANDSCAPE PLAN, L3.0
- SEE SHEET L0.1 FOR FULL PARCEL MAP.

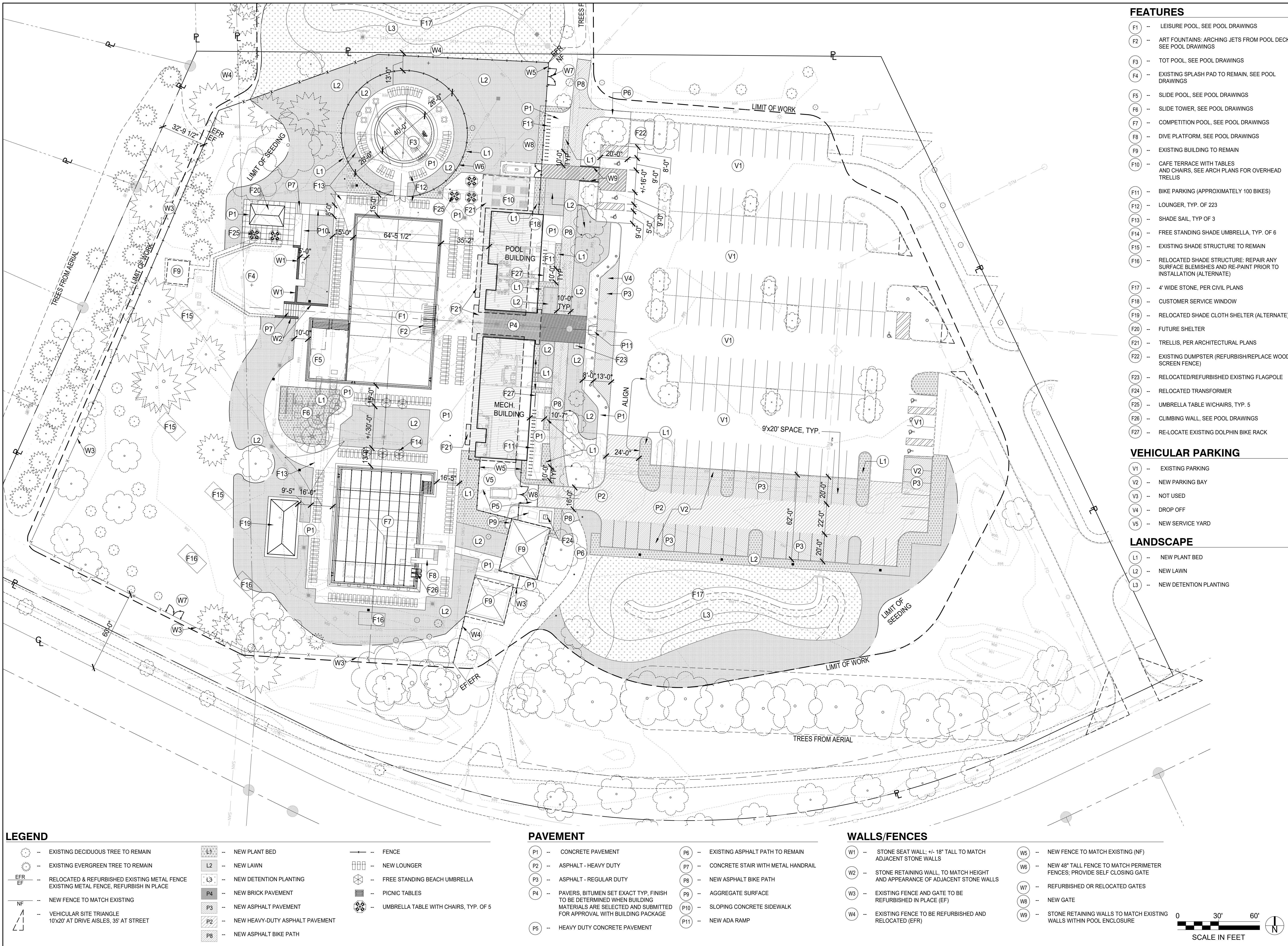
### CODED NOTES

- ① - EXISTING TAXUS HEDGE TO REMAIN
- ② - PARKING LOT SHARED WITH SCHOOL





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KEITH B HALL  
 #1716975  
 EXP. DATE: 12.31.2019

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03-20-20	SITE P&Z UPDATE

NO.	DATE	REVISION

PROJECT NO. **18156.00**

DRAWING TITLE  
**SITE MATERIALS & STAKING PLAN**

**L1.0**

- FEATURES**
- F1 - LEISURE POOL, SEE POOL DRAWINGS
  - F2 - ART FOUNTAINS: ARCHING JETS FROM POOL DECK, SEE POOL DRAWINGS
  - F3 - TOT POOL, SEE POOL DRAWINGS
  - F4 - EXISTING SPLASH PAD TO REMAIN, SEE POOL DRAWINGS
  - F5 - SLIDE POOL, SEE POOL DRAWINGS
  - F6 - SLIDE TOWER, SEE POOL DRAWINGS
  - F7 - COMPETITION POOL, SEE POOL DRAWINGS
  - F8 - DIVE PLATFORM, SEE POOL DRAWINGS
  - F9 - EXISTING BUILDING TO REMAIN
  - F10 - CAFE TERRACE WITH TABLES AND CHAIRS, SEE ARCH PLANS FOR OVERHEAD TRELLIS
  - F11 - BIKE PARKING (APPROXIMATELY 100 BIKES)
  - F12 - LOUNGER, TYP. OF 223
  - F13 - SHADE SAIL, TYP OF 3
  - F14 - FREE STANDING SHADE UMBRELLA, TYP. OF 6
  - F15 - EXISTING SHADE STRUCTURE TO REMAIN
  - F16 - RELOCATED SHADE STRUCTURE: REPAIR ANY SURFACE BLEMISHES AND RE-PAINT PRIOR TO INSTALLATION (ALTERNATE)
  - F17 - 4' WIDE STONE, PER CIVIL PLANS
  - F18 - CUSTOMER SERVICE WINDOW
  - F19 - RELOCATED SHADE CLOTH SHELTER (ALTERNATE)
  - F20 - FUTURE SHELTER
  - F21 - TRELLIS, PER ARCHITECTURAL PLANS
  - F22 - EXISTING DUMPSTER (REFURBISH/REPLACE WOOD SCREEN FENCE)
  - F23 - RELOCATED/REFURBISHED EXISTING FLAGPOLE
  - F24 - RELOCATED TRANSFORMER
  - F25 - UMBRELLA TABLE W/CHAIRS, TYP. 5
  - F26 - CLIMBING WALL, SEE POOL DRAWINGS
  - F27 - RE-LOCATE EXISTING DOLPHIN BIKE RACK

- VEHICULAR PARKING**
- V1 - EXISTING PARKING
  - V2 - NEW PARKING BAY
  - V3 - NOT USED
  - V4 - DROP OFF
  - V5 - NEW SERVICE YARD

- LANDSCAPE**
- L1 - NEW PLANT BED
  - L2 - NEW LAWN
  - L3 - NEW DETENTION PLANTING

**LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN	- NEW PLANT BED	- FENCE
- EXISTING EVERGREEN TREE TO REMAIN	- NEW LAWN	- NEW LOUNGER
- RELOCATED & REFURBISHED EXISTING METAL FENCE EXISTING METAL FENCE, REFURBISH IN PLACE	- NEW DETENTION PLANTING	- FREE STANDING BEACH UMBRELLA
- NEW FENCE TO MATCH EXISTING	- NEW BRICK PAVEMENT	- PICNIC TABLES
- VEHICULAR SITE TRIANGLE 10'x20' AT DRIVE AISLES, 35' AT STREET	- NEW ASPHALT PAVEMENT	- UMBRELLA TABLE WITH CHAIRS, TYP. OF 5
	- NEW HEAVY-DUTY ASPHALT PAVEMENT	
	- NEW ASPHALT BIKE PATH	

**PAVEMENT**

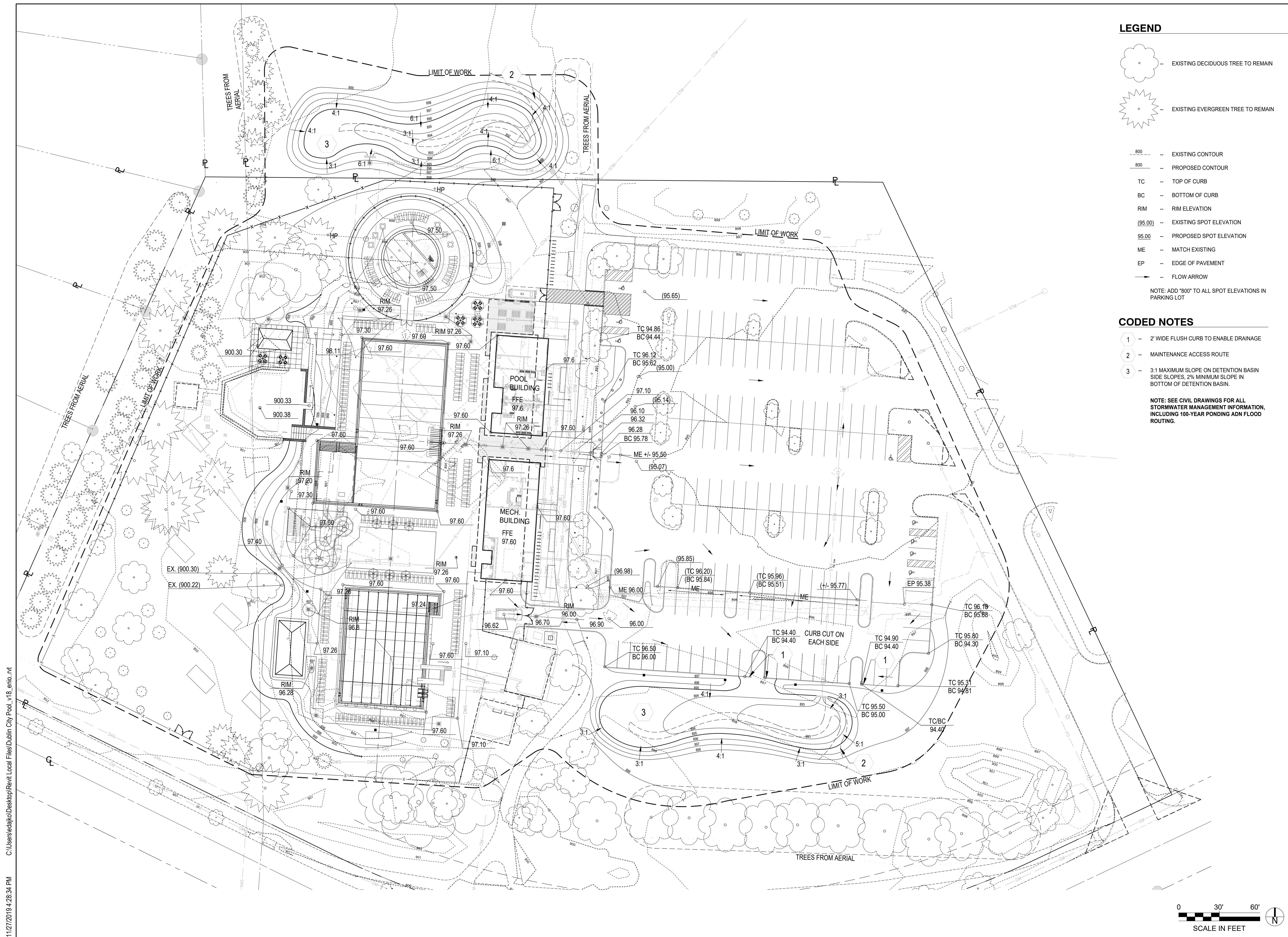
P1 - CONCRETE PAVEMENT	P6 - EXISTING ASPHALT PATH TO REMAIN
P2 - ASPHALT - HEAVY DUTY	P7 - CONCRETE STAIR WITH METAL HANDRAIL
P3 - ASPHALT - REGULAR DUTY	P8 - NEW ASPHALT BIKE PATH
P4 - PAVERS, BITUMEN SET EXACT TYP. FINISH TO BE DETERMINED WHEN BUILDING MATERIALS ARE SELECTED AND SUBMITTED FOR APPROVAL WITH BUILDING PACKAGE	P9 - AGGREGATE SURFACE
P5 - HEAVY DUTY CONCRETE PAVEMENT	P10 - SLOPING CONCRETE SIDEWALK
	P11 - NEW ADA RAMP

**WALLS/FENCES**

W1 - STONE SEAT WALL, +/- 18" TALL TO MATCH ADJACENT STONE WALLS	W5 - NEW FENCE TO MATCH EXISTING (NF)
W2 - STONE RETAINING WALL, TO MATCH HEIGHT AND APPEARANCE OF ADJACENT STONE WALLS	W6 - NEW 48" TALL FENCE TO MATCH PERIMETER FENCES; PROVIDE SELF CLOSING GATE
W3 - EXISTING FENCE AND GATE TO BE REFURBISHED IN PLACE (EF)	W7 - REFURBISHED OR RELOCATED GATES
W4 - EXISTING FENCE TO BE REFURBISHED AND RELOCATED (EFR)	W8 - NEW GATE
	W9 - STONE RETAINING WALLS TO MATCH EXISTING WALLS WITHIN POOL ENCLOSURE







**LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TC** -- TOP OF CURB
- BC** -- BOTTOM OF CURB
- RIM** -- RIM ELEVATION
- (95.00)** -- EXISTING SPOT ELEVATION
- 95.00** -- PROPOSED SPOT ELEVATION
- ME** -- MATCH EXISTING
- EP** -- EDGE OF PAVEMENT
- FLOW ARROW

NOTE: ADD "800" TO ALL SPOT ELEVATIONS IN PARKING LOT

**CODED NOTES**

- 1 -- 2' WIDE FLUSH CURB TO ENABLE DRAINAGE
- 2 -- MAINTENANCE ACCESS ROUTE
- 3 -- 3:1 MAXIMUM SLOPE ON DETENTION BASIN SIDE SLOPES, 2% MINIMUM SLOPE IN BOTTOM OF DETENTION BASIN.

NOTE: SEE CIVIL DRAWINGS FOR ALL STORMWATER MANAGEMENT INFORMATION, INCLUDING 100-YEAR PONDING AND FLOOD ROUTING.

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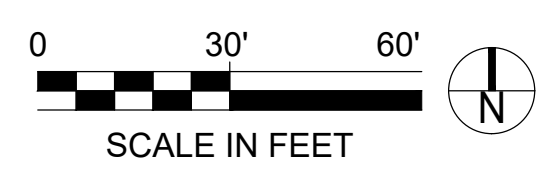
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DATE	ISSUED
02-20-20	SITE P&Z SUBMISSION
03-13-20	SITE P&Z SUBMISSION
03-20-20	SITE P&Z UPDATE

NO.	DATE	REVISION

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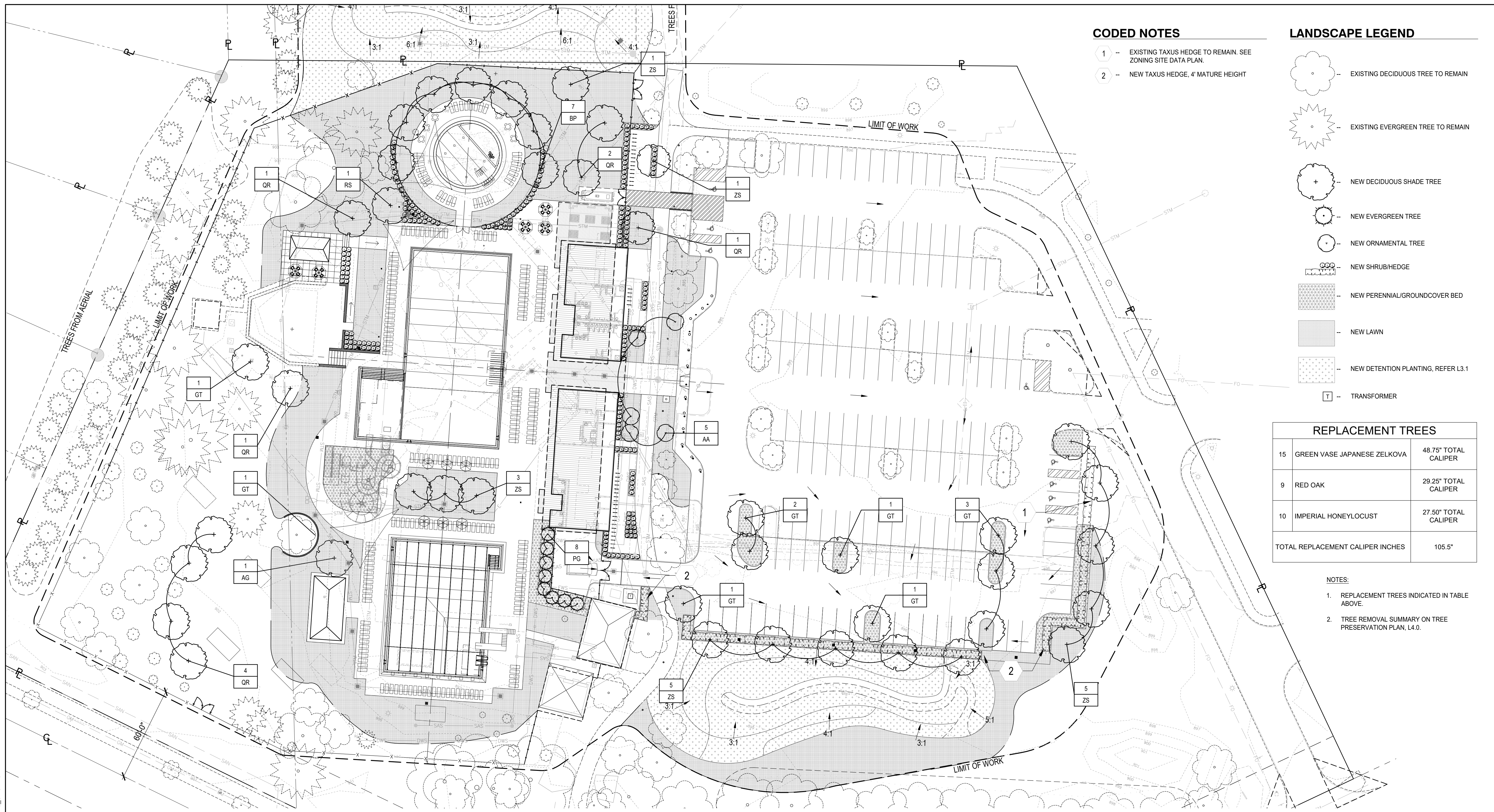
DRAWING TITLE  
**SITE GRADING PLAN**



**L2.0**



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**CODED NOTES**

- 1 - EXISTING TAXUS HEDGE TO REMAIN. SEE ZONING SITE DATA PLAN.
- 2 - NEW TAXUS HEDGE, 4' MATURE HEIGHT

**LANDSCAPE LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- NEW DECIDUOUS SHADE TREE
- NEW EVERGREEN TREE
- NEW ORNAMENTAL TREE
- NEW SHRUB/HEDGE
- NEW PERENNIAL/GROUNDCOVER BED
- NEW LAWN
- NEW DETENTION PLANTING, REFER L3.1
- TRANSFORMER

REPLACEMENT TREES		
15	GREEN VASE JAPANESE ZELKOVA	48.75" TOTAL CALIPER
9	RED OAK	29.25" TOTAL CALIPER
10	IMPERIAL HONEYLOCUST	27.50" TOTAL CALIPER
TOTAL REPLACEMENT CALIPER INCHES		105.5"

- NOTES:**
- REPLACEMENT TREES INDICATED IN TABLE ABOVE.
  - TREE REMOVAL SUMMARY ON TREE PRESERVATION PLAN, L4.0.

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EXP. DATE: 12.31.2019

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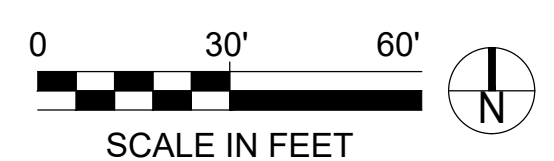
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DRAWING TITLE  
**LANDSCAPE PLAN**



**L3.0**

**PLANT LIST**

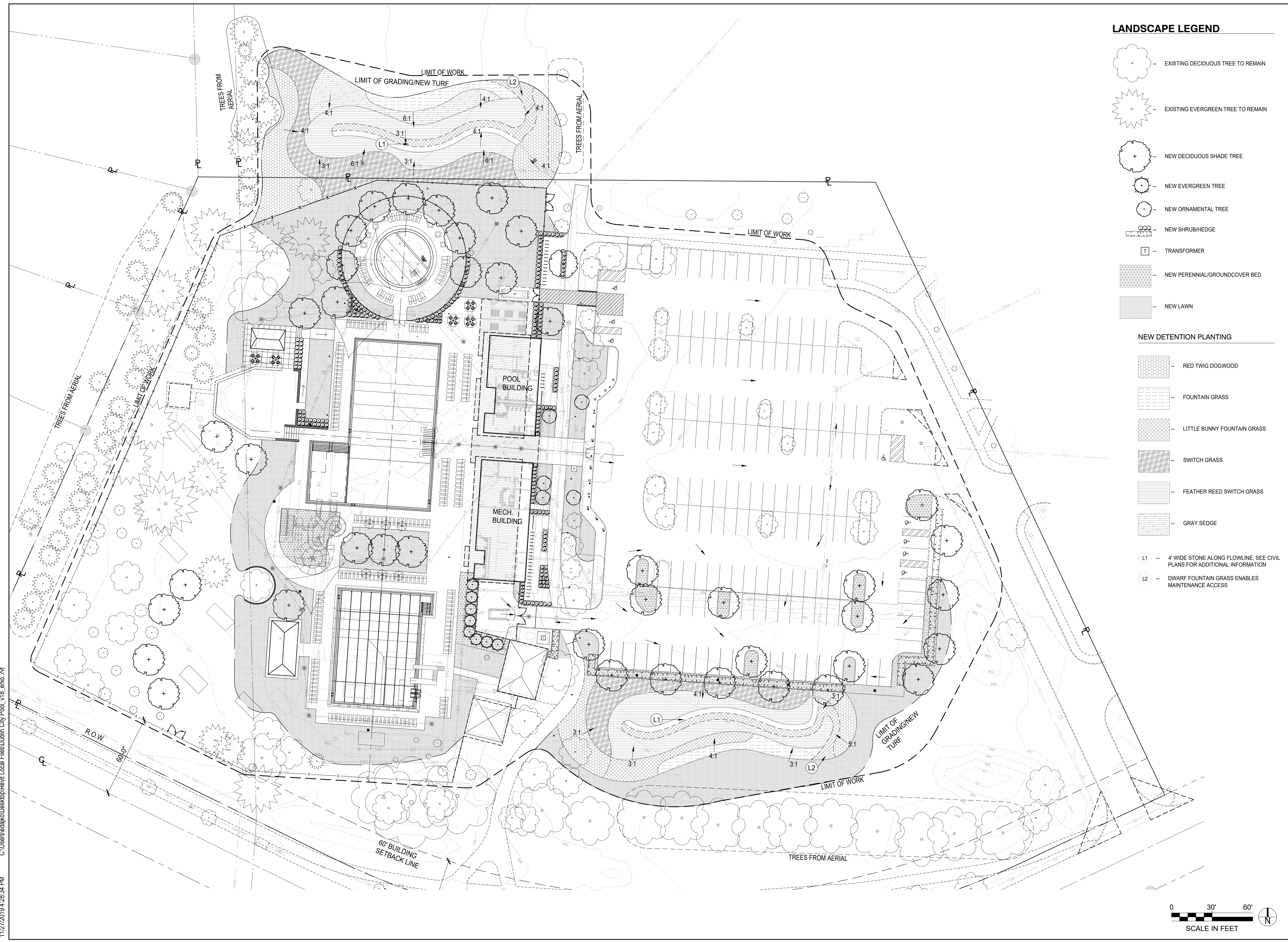
SHADE TREES							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
17	ZS	Zelkova serrata 'Green Vase'	Green Vase Japanese Zelkova	3-3 1/2"	B&B	Per Plans	
9	QR	Quercus rubra	Red Oak	3-3 1/2"	B&B	Per Plans	
9	GT	Gleditsia T.I. 'Imperial'	Imperial Honeylocust	2 1/2 - 3 1/2"	B&B	Per Plans	Thornless only
ORNAMENTAL TREES							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
5	AA	Amelanchier x gr 'Autumn Brilliance'	Autumn Brilliance Serviceberry	10'	B&B	Per Plans	Multi stem
7	BP	Betula populifolia 'Whitespire'	Whitespire Birch	10'	B&B	Per Plans	Multi stem
1	AG	Acer griseum	Paperbark Maple	5'-6'	B&B	Per Plans	Multi stem
EVERGREEN TREE							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
8	PG	Plicata 'Green Giant'	Green Giant Arborvitae	8'-0"	B&B	Per Plans	

SHRUBS							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
	JP	Juniperus Procumbens 'Green Mound'	Green Mound Juniper	15"	CONT.	4' O.C.	
	MP	Myrica Pensylvanica	Northern Bayberry	30"	CONT. OR B&B	8' O.C.	
	TE	Taxus media 'Everlow'	Everlow Yew	24"	CONT. OR B&B	4' O.C.	
	TD	Taxus media 'Densiflora'	Dense Yew	30"	B&B	4' O.C.	
	VP	Viburnum plicatum tomentosum 'Summer Snowflake'	Summer Snowflake Viburnum	24"	CONT.	4' O.C.	
PERENNIALS, GROUNDCOVERS, & VINES							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
	CL	Chasmanthium latifolium	Northern Sea Oats	NO. 2	CONT.	3' O.C.	
	GR	Geranium x 'Rozanne'	Rozanne Geranium	NO. 2	CONT.	28" O.C.	
	LM	Liriope muscari 'Royal Purple'	Royal Purple Lily Turf	NO. 1	CONT.	10" O.C.	
	PA	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	NO. 2	CONT.	24" O.C.	

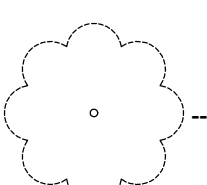
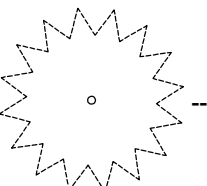
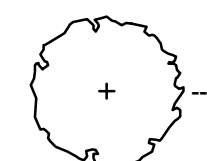
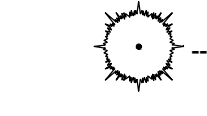

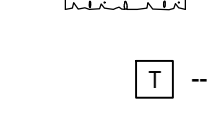
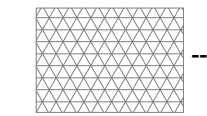


DETENTION PLANTING							
QTY.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NOTES
	CS	Cornus sericea 'Farrow Arctic Fire'	Red Twig Dogwood	24-30"	CONT.	4' O.C.	
	PV	Panicum virgatum 'Shenandoah'	Switch Grass	NO. 2	CONT.	36" O.C.	
	CA	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	NO. 2	CONT.	24" O.C.	
	PA	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	NO. 2	CONT.	24" O.C.	
	CG	Carex grayi	Gray Sedge	NO. 1	CONT.	18" O.C.	
	PL	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Dwarf Fountain Grass	NO. 2	CONT.	18" O.C.	



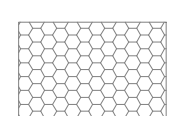

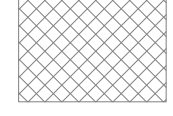



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### LANDSCAPE LEGEND

-  EXISTING DECIDUOUS TREE TO REMAIN
-  EXISTING EVERGREEN TREE TO REMAIN
-  NEW DECIDUOUS SHADE TREE
-  NEW EVERGREEN TREE
-  NEW ORNAMENTAL TREE
-  NEW SHRUB/HEDGE
-  TRANSFORMER
-  NEW PERENNIAL/GROUNDCOVER BED
-  NEW LAWN

### NEW DETENTION PLANTING

-  RED TWIG DOGWOOD
-  FOUNTAIN GRASS
-  LITTLE BUNNY FOUNTAIN GRASS
-  SWITCH GRASS
-  FEATHER REED SWITCH GRASS
-  GRAY SEDGE
- L1 -- 4' WIDE STONE ALONG FLOWLINE. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION
- L2 -- DWARF FOUNTAIN GRASS ENABLES MAINTENANCE ACCESS

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KEITH B HALL  
#1718976  
EXP. DATE: 12.31.2019

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CITY OF DUBLIN  
5660 DUBLINSHIRE DR  
DUBLIN, OH 43017

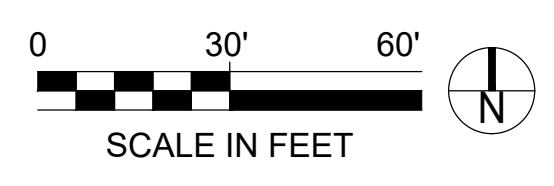
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DATE	ISSUED
02-20-20	SITE P&Z SUBMISSION
03-20-20	SITE P&Z UPDATE

NO.	DATE	REVISION

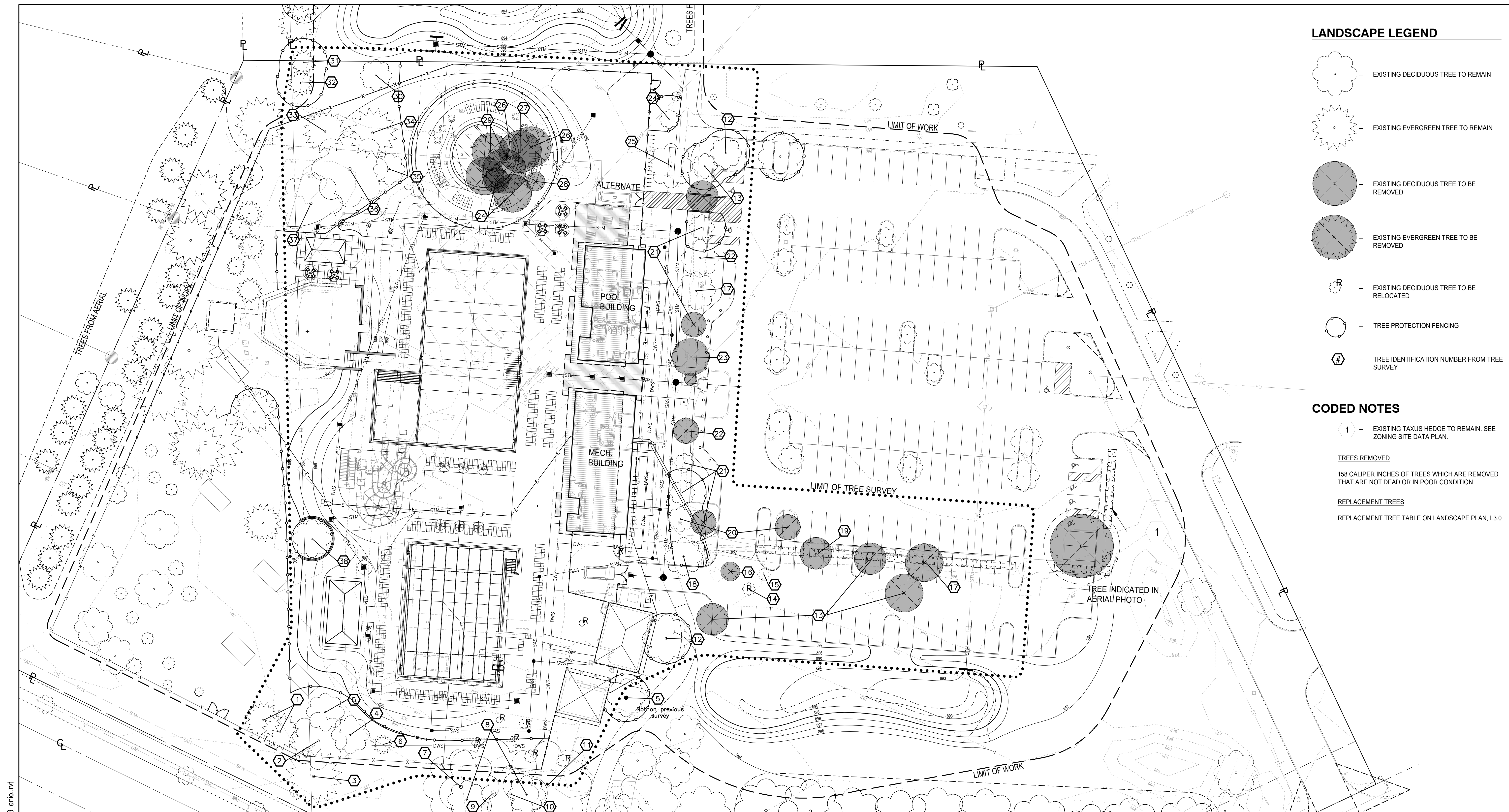
PROJECT NO. **18156.00**

DRAWING TITLE  
**DETENTION  
LANDSCAPE  
PLAN**



**L3.1**





**LANDSCAPE LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING EVERGREEN TREE TO BE REMOVED
- EXISTING DECIDUOUS TREE TO BE RELOCATED
- TREE PROTECTION FENCING
- TREE IDENTIFICATION NUMBER FROM TREE SURVEY

**CODED NOTES**

- EXISTING TAXUS HEDGE TO REMAIN. SEE ZONING SITE DATA PLAN.
- TREES REMOVED**  
158 CALIPER INCHES OF TREES WHICH ARE REMOVED THAT ARE NOT DEAD OR IN POOR CONDITION.
- REPLACEMENT TREES**  
REPLACEMENT TREE TABLE ON LANDSCAPE PLAN, L3.0

**TREE SUMMARY FROM TREE SURVEY**

1	Fair 10" Picea pungens (Blue Spruce)	KEEP 2
2	Good 21" Quercus rubra (Red Oak)	KEEP
3	Fair 12" Pinus sylvestris (Scotch Pine)	KEEP
4	Good 12" Gymnocladus dioicus (Kentucky Coffeetree)	KEEP
5	Good 11" Gymnocladus dioicus (Kentucky Coffeetree)	KEEP
6	Good 6" Taxodium distichum (Bald Cypress)	KEEP
7	Fair 22" Juglans nigra (Black Walnut)	KEEP
8	Good 10" Celtis occidentalis (Hackberry)	KEEP 2
9	Fair 12"/16" Tilia americana (American Basswood)	KEEP
10	Good 15" Celtis occidentalis (Hackberry)	KEEP
11	Fair 28" Fraxinus americana (White Ash)	KEEP

12	Good 15" Gleditsia triacanthos x inermis (Thornless Honey Locust)	KEEP
13	Good 10" Gleditsia triacanthos x inermis (Thornless Honey Locust)	REMOVE
14	Good 4" Crataegus sp. (Hawthorn)	
15	Poor 4" Crataegus sp. (Hawthorn)	
16	Good 7" Crataegus sp. (Hawthorn)	REMOVE
17	Good 12" Gleditsia triacanthos x inermis (Thornless Honey Locust)	REMOVE
18	Good 13" Gleditsia triacanthos x inermis (Thornless Honey Locust)	KEEP
19	Good 7" Gleditsia triacanthos x inermis (Thornless Honey Locust)	REMOVE
20	Good 9" Gleditsia triacanthos x inermis (Thornless Honey Locust)	KEEP1/ REMOVE1
21	Good 8" Gleditsia triacanthos x inermis (Thornless Honey Locust)	KEEP 2/ REMOVE 1

22	Good 11" Gleditsia triacanthos x inermis (Thornless Honey Locust)	KEEP
23	Good 14" Gleditsia triacanthos x inermis (Thornless Honey Locust)	REMOVE
24	Good 6" Crataegus sp. (Hawthorn)	REMOVE
25	Good 17" Gleditsia triacanthos x inermis (Thornless Honey Locust)	REMOVE
26	Good 14" Pinus nigra (Australian Pine)	REMOVE 2
27	Good 13" Pinus nigra (Australian Pine)	REMOVE
28	Good Crataegus sp. (Hawthorn) 7" trunk at split (24" above ground level) DBH: 4/3/3/3"	REMOVE
29	Good 10" Pinus nigra (Australian Pine)	REMOVE 2
30	Good 11" Liquidambar styraciflua (Sweetgum)	KEEP
31	Fair 7" Picea pungens (Blue Spruce)	KEEP

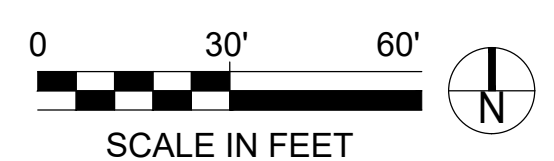
32	Fair 9" Picea pungens (Blue Spruce)	KEEP
33	Good 16" Picea abies (Norway Spruce)	KEEP
34	Good 18" Picea abies (Norway Spruce)	KEEP
35	Good 13" Quercus rubra (Red Oak)	KEEP
36	Good 22" Quercus rubra (Red Oak)	KEEP
37	Good 20" Quercus rubra (Red Oak)	KEEP
38	Good 16" Sophora japonica (Japanese Pagoda)	KEEP

**TREE REPLACEMENT TOTAL**

ONLY TREES WITHIN RE-DEVELOPMENT AREA (LIMIT OF TREE SURVEY) WILL BE REMOVED, AND ARE REFLECTED IN THIS CHART.

TOTAL EXISTING MAJOR TREES (CAL. INCHES)	549"
TOTAL EXISTING TREES NOT INCLUDED ON TREE SURVEY	90 TREES
TOTAL EXISTING MAJOR TREES (CAL. INCHES) TO BE REMOVED BY DEVELOPMENT	158"
TOTAL REPLACEMENT TREES REQUIRED (CAL. INCHES)	158"
TOTAL REPLACEMENT TREES PROVIDED (CAL. INCHES)	105.5"
TOTAL REMAINING CAL. INCHES**	52.5" **

\*\*REPLACEMENT TREES WILL BE PLANTED ON OTHER CITY PROPERTIES



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DATE	ISSUED
02-20-20	SITE P&Z SUBMISSION
03-23-20	MKSK/MSA/STN

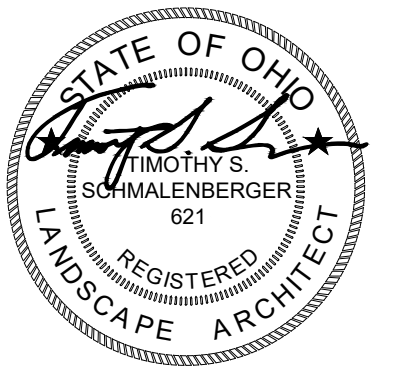
NO.	DATE	REVISION

PROJECT NO. **18156.00**  
DRAWING TITLE  
**TREE PRESERVATION PLAN**

**L4.0**

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**DATE ISSUED**  
03-13-20 HEALTH DEPT. SUBMITTAL

**NO. DATE REVISION**

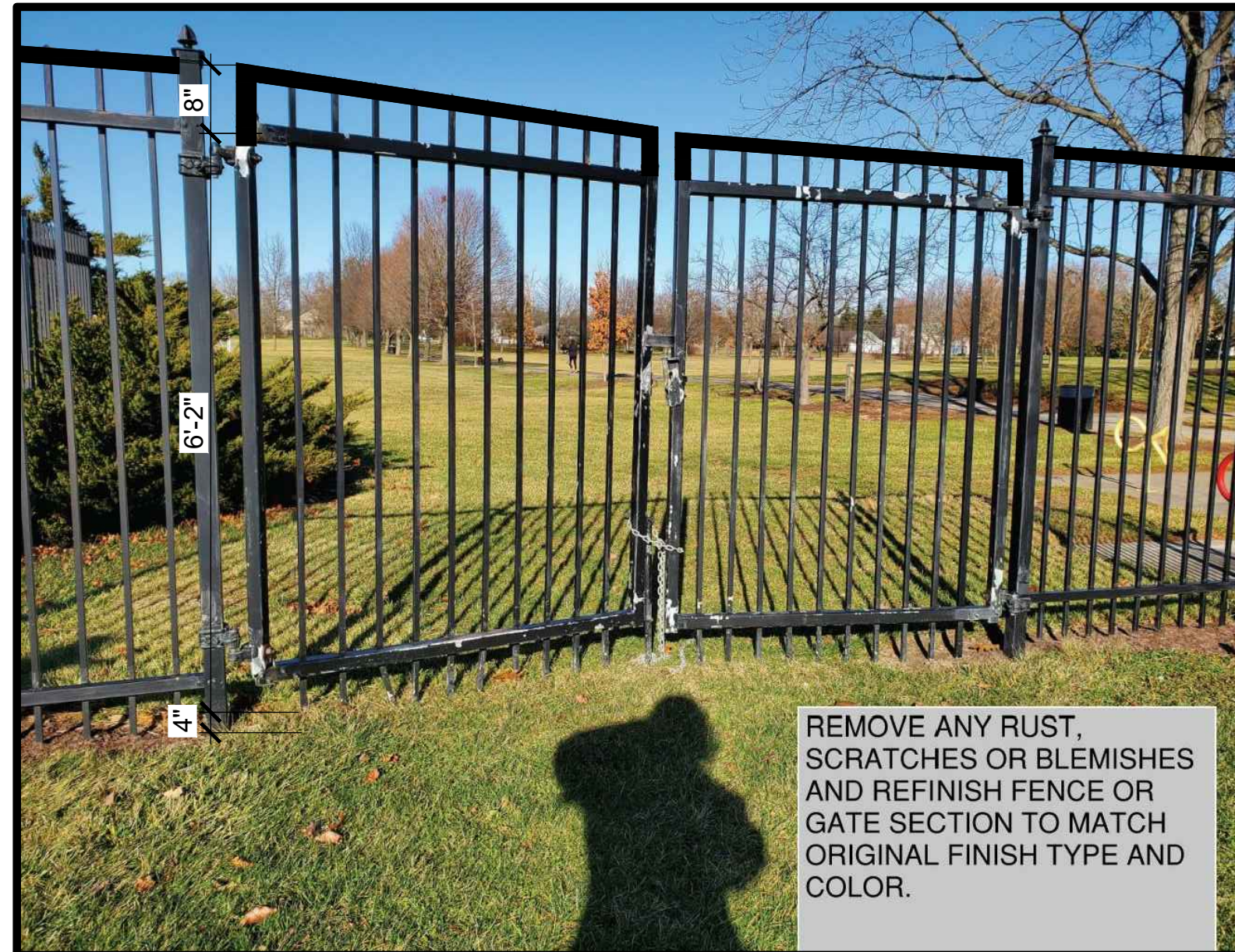
PROJECT NO. **18156.00**

DRAWING TITLE  
**DETAILS**

**L5.0**



REPLACE ALL BOARDS AND STRUCTURAL WOOD COMPONENTS THAT ARE ROTTEN OR DAMAGED. CEDAR BOARDS TO MATCH EXISTING.



REMOVE ANY RUST, SCRATCHES OR BLEMISHES AND REFINISH FENCE OR GATE SECTION TO MATCH ORIGINAL FINISH TYPE AND COLOR.



REPLACE OR REPAIR ALL BENT OR DAMAGED PICKETS OR OTHER FENCE MEMBERS. REPAIR ANY SCRATCHES OR BLEMISHES IN FINISH AND REFINISH FENCE SECTION TO MATCH EXISTING TYPE AND COLOR OF FINISH.



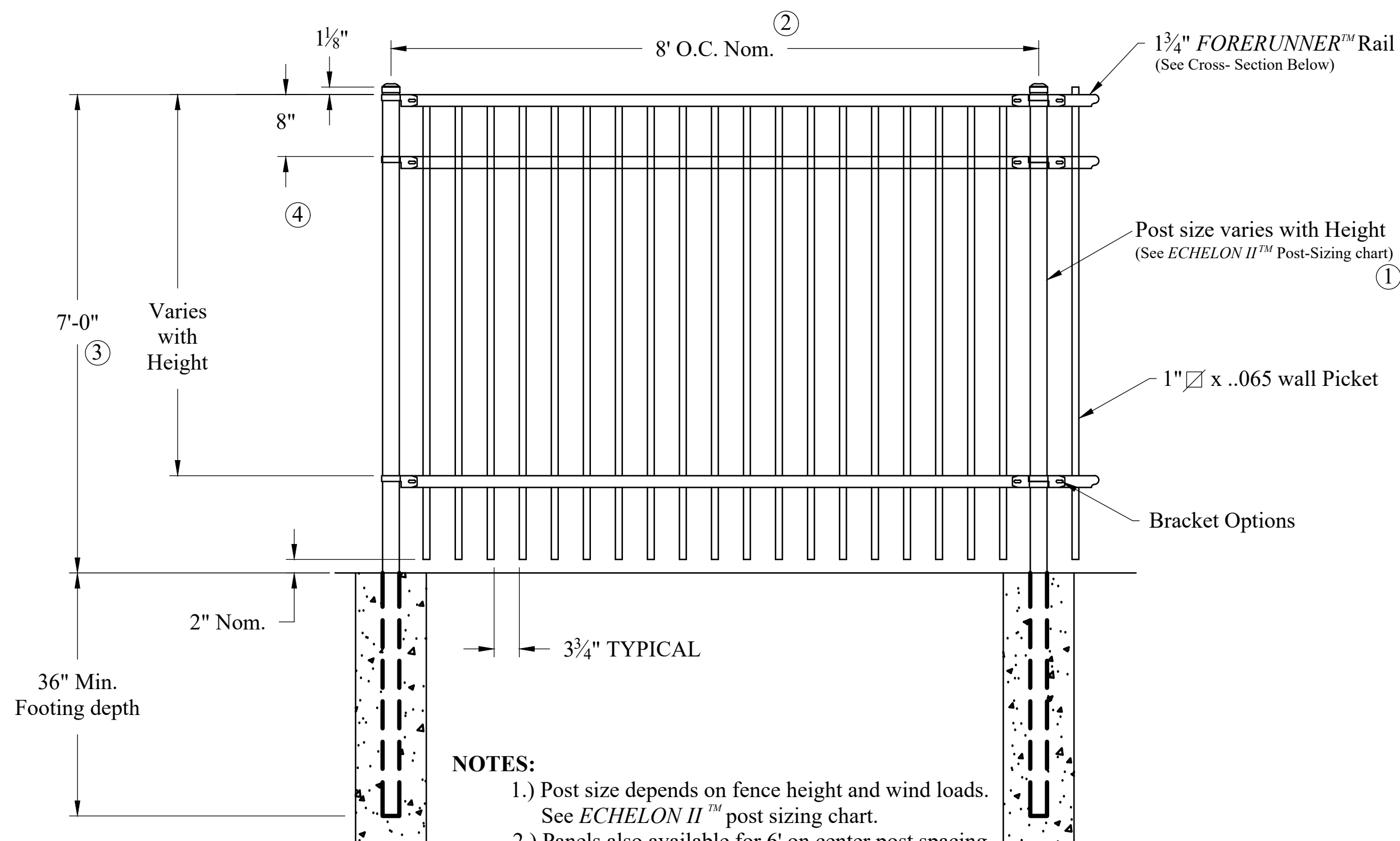
REPAIR ANY SCRATCHES OR BLEMISHES IN FINISH. RELOCATE SHELTERS PER PLAN AS AN ALTERNATE. PROVIDE CONCRETE FOUNDATIONS PER STRUCTURAL ENGINEER.

**NOTE:**

ON ALL EXISTING FENCE: PROVIDE CHANNEL TO ENCASE THE PICKET POINTS.

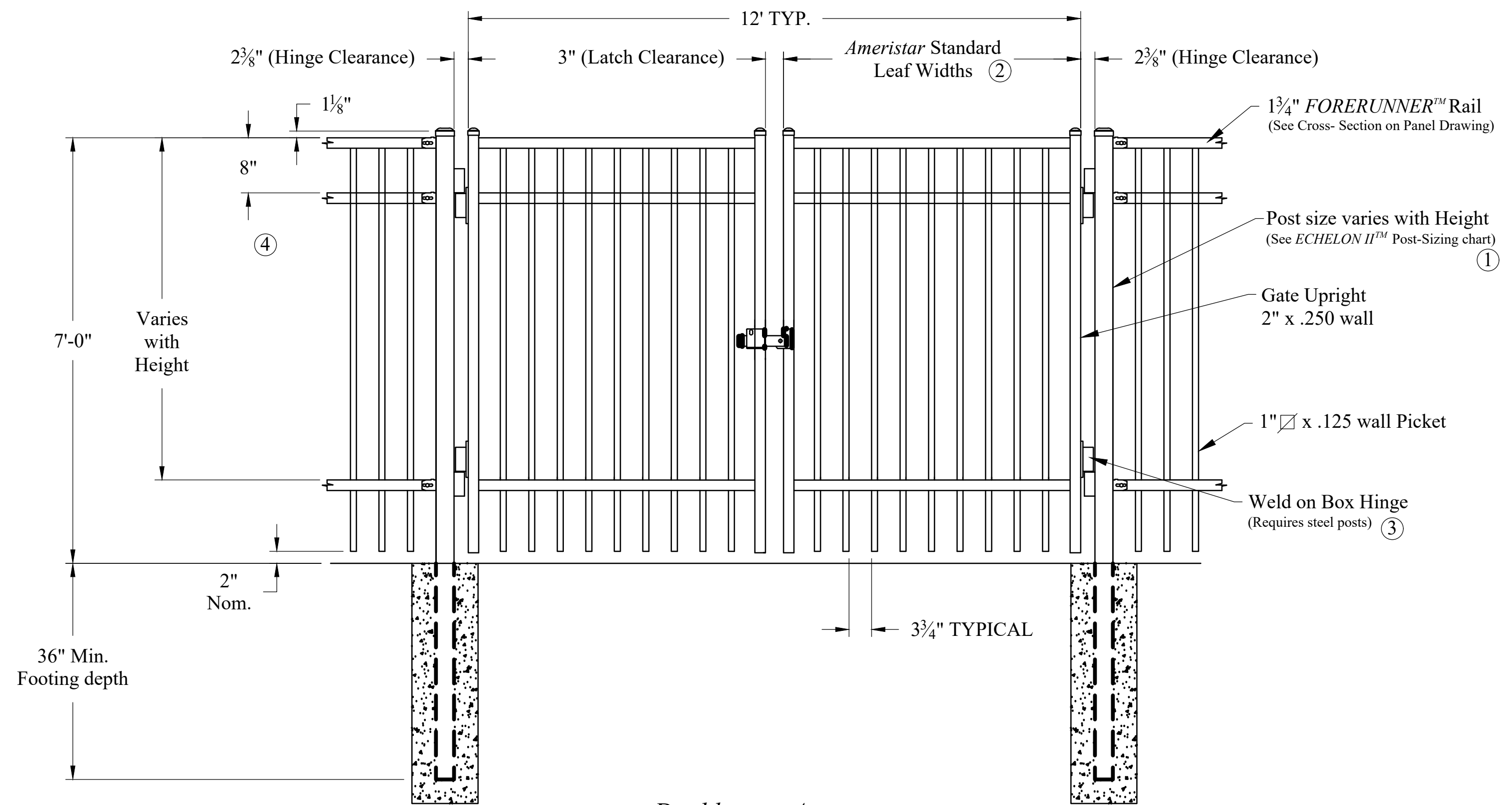
ON ALL EXISTING GATES: EXTEND POSTS AND PROVIDE CHANNEL TO CAP OFF PICKET POINTS. FINISH TO MATCH EXISTING

OVERALL HEIGHT +/- 7'-2" TO MATCH EXISTING FENCE



**NOTES:**

- 1.) Post size depends on fence height and wind loads. See ECHELON II™ post sizing chart.
- 2.) Panels also available for 6' on center post spacing
- 3.) Additional heights available on request. Some heights noted require a third and/or fourth rail.
- 4.) Third rail required.
- 5.) Overall height +/- 7'-2" to match existing



Double gate Arrangement

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

2 FENCE DETAIL NOT TO SCALE

TYPICAL SECTION

1 DOUBLE GATE ARRANGEMENT NOT TO SCALE

TYPICAL SECTION

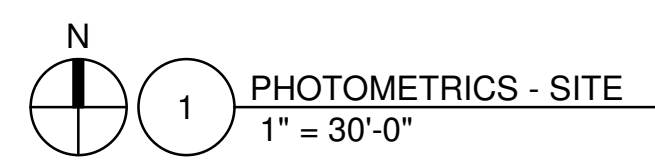
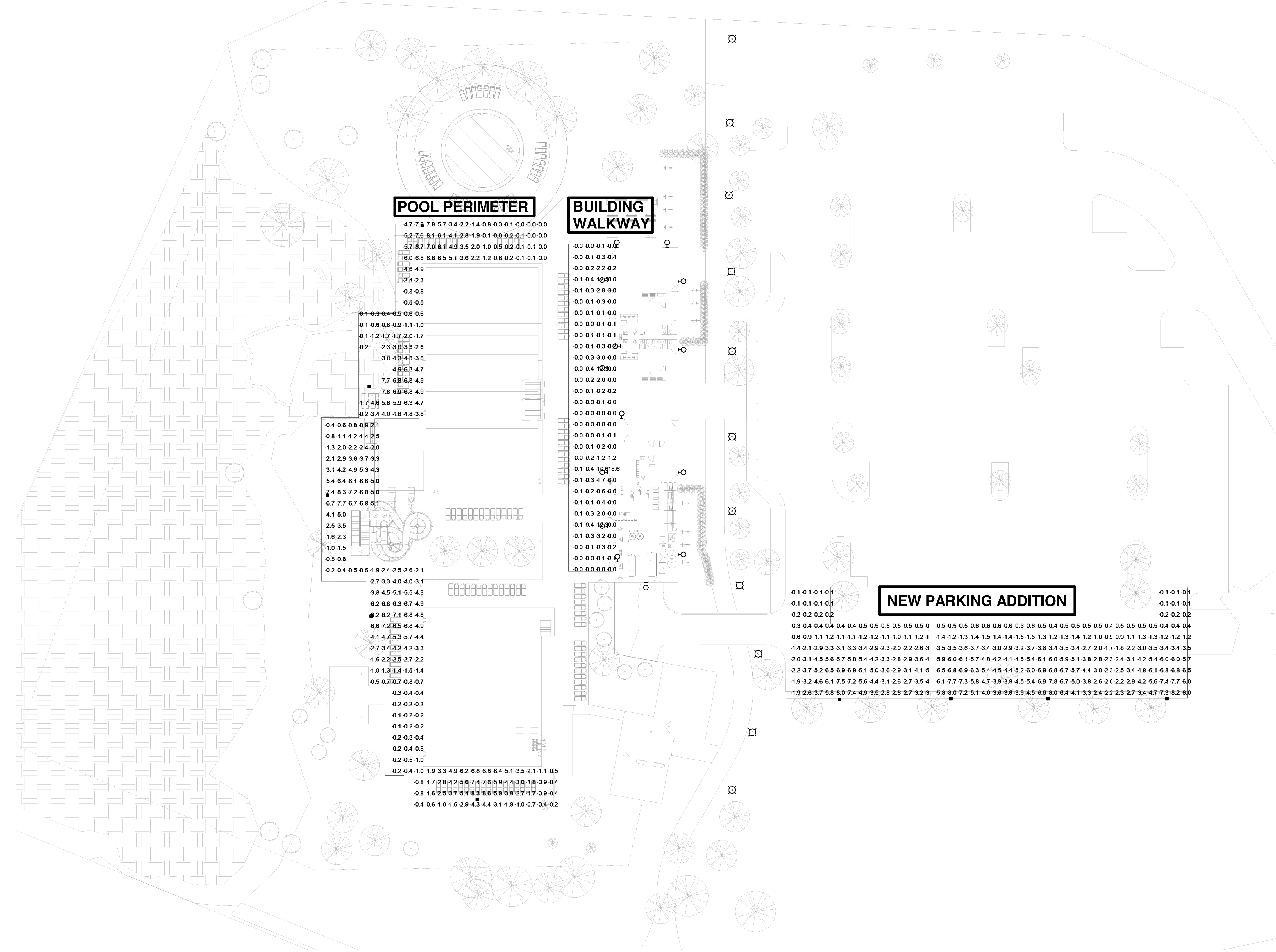


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**GENERAL PHOTOMETRIC PLAN NOTES**

- A. **PHOTOMETRIC REPORT:** THIS PHOTOMETRIC REPORT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA (IES FILES). THIS LABORATORY DATA IS TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY SOMEWHAT DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
- B. **ILLUMINATION LEVELS:** THE ILLUMINATION LEVELS SHOWN, MEASURED IN FOOT-CANDLES, ARE BASED ON THE SPECIFIED CRITERIA. ANY SUBSTITUTIONS/DEVIATIONS IN LUMINAIRES OR MOUNTING HEIGHTS, OR ALTERATIONS TO THE LAYOUT, WILL AFFECT ILLUMINATION LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF KLH ENGINEERS, PSC.
- C. **ADJUSTMENTS:** PROVIDE FINAL ADJUSTMENTS TO AIMING ANGLE(S) OF LUMINAIRES IF OR AS REQUIRED TO ELIMINATE LIGHT TRESPASS OR GLARE ONTO ADJACENT PROPERTIES AND/OR ROADWAYS.
- D. **LUMINAIRE SCHEDULE:** REFER TO LUMINAIRE SCHEDULE FOR LUMINAIRE AND POLE INFORMATION. THE LUMINAIRE SCHEDULE INCLUDED ON THIS SHEET IS FOR PHOTOMETRIC REVIEW REFERENCE ONLY.
- E. **ADJACENT CONTRIBUTIONS:** CONTRIBUTIONS FROM ADJACENT STREET LIGHTING, ADJACENT PROPERTIES, AND BUILDING OR POLE MOUNTED LUMINAIRES NOT WITHIN THIS PROJECT SCOPE ARE NOT REFLECTED IN THIS PHOTOMETRIC REPORT.
- F. **CRITERIA:** FOOT-CANDLE LEVELS SHOWN ARE MAINTAINED AND CALCULATED AT GRADE BASED ON SPECIFIED MOUNTING HEIGHT FOR POLE-MOUNTED FIXTURES.

ElumTools General Use Illuminance Results					
Calculation Points Name	Average	Maximum	Minimum	Avg/Min	Max/Min
POOL PERIMETER BP2	3 fc	9 fc	0 fc	650.4	2228.2
NEW PARKING BP2	3 fc	8 fc	0 fc	37.6	102.0
POOL PERIMETER BP1	3 fc	9 fc	0 fc	1047.0	2991.4
NEW PARKING BP1	3 fc	8 fc	0 fc	54.3	140.8
BUILDING WALKWAY	1 fc	19 fc	0 fc	3521.3	72323.1
BUILDING WALKWAY BP2	1 fc	15 fc	0 fc	95103.4	1448010.1



2" REFERENCE LINE  
KLH PROJECT #: 21851

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 MECHANICAL/ELECTRICAL ENGINEERS  
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 COLUMBUS, OHIO 43215  
 800-354-9783  
 614-228-2180

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DATE	ISSUED
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NO.	DATE	REVISION

PROJECT NO. **18156.00**

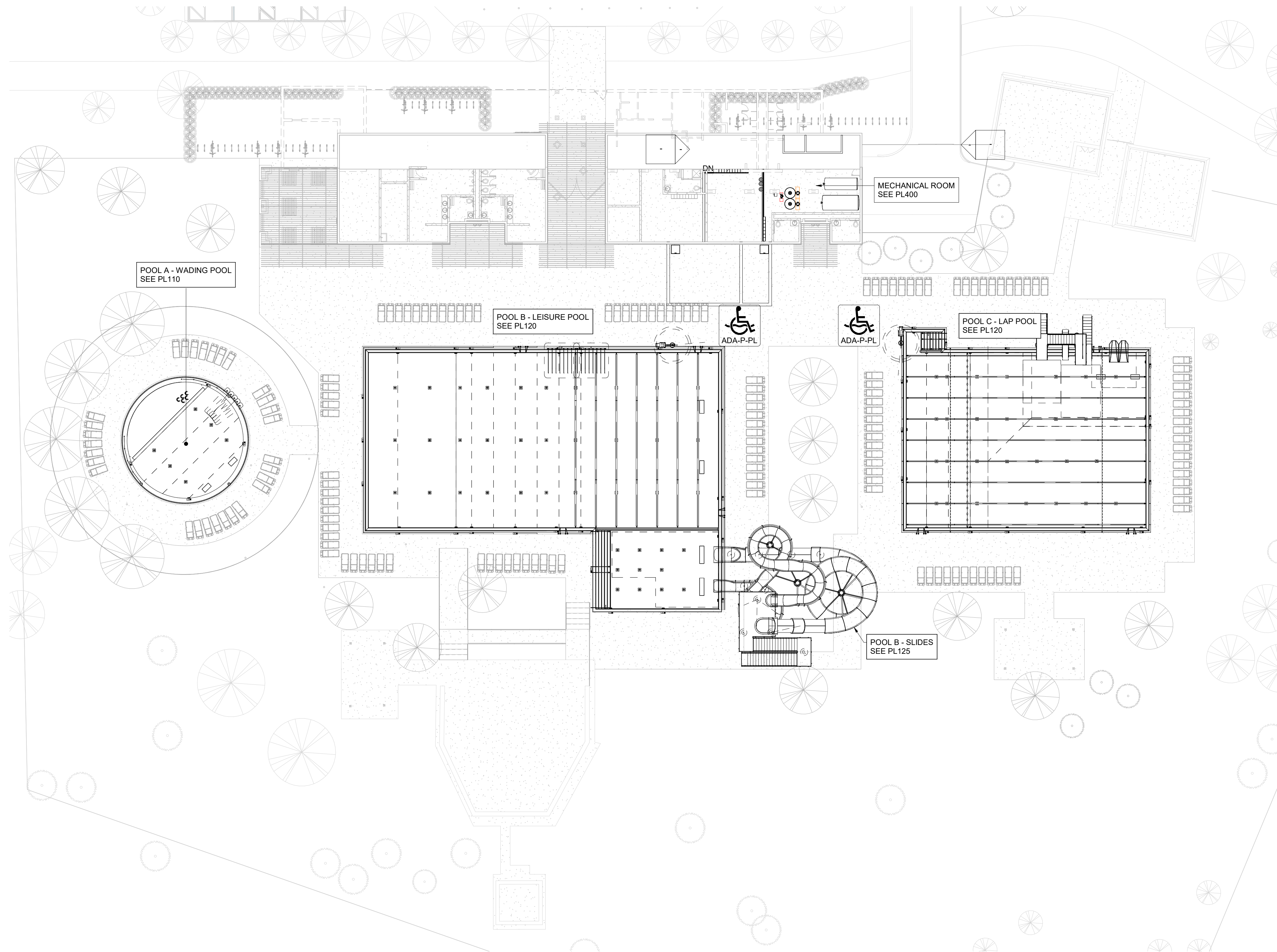
DRAWING TITLE  
**ELECTRIC SITE - PHOTOMETRICS**

**ES1.3**



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1 **OVERALL AQUATICS PLAN**  
PLAN VIEW  
1" = 20'-0"



**GENERAL NOTES:**

- LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
- SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
- CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
- ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
- REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
- REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
- REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
- REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
- REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.

**CODES, STANDARDS AND REGULATIONS:**

CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

**CODE JURISDICTION**  
DUBLIN, OHIO

**HEALTH & SAFETY CODE:**  
STATE HEALTH CODE: OHIO ADMINISTRATIVE CODE CHAPTER 3701-31

**MODEL CODES:**  
2016 MODEL AQUATIC HEALTH CODE (2nd EDITION)

**ACCESSIBILITY STANDARDS AND REGULATIONS:**

**UNITED STATES:**  
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

**POOL A-WADING DATA**

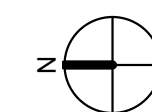
DESCRIPTION	QTY	UNITS	
POOL PERIMETER	116	FEET	
WATER SURFACE AREA	921	SQUARE FEET	
POOL VOLUME	5,497	GALLONS	
CIRCULATION RATE	183	GPM	
TURNOVERVOLUME/FLOW	30 MIN.	5,497 GAL.	183 GPM
FILTRATION RATE	10.18	GPM/FT²	
BACKWASH RATE	135	GPM	
PATRON LOAD	63	PERSONS	

**POOL B-LEISURE DATA**

DESCRIPTION	QTY	UNITS	
POOL PERIMETER	416	FEET	
WATER SURFACE AREA	8,333	SQUARE FEET	
POOL VOLUME	164,492	GALLONS	
SURGE TANK - POOL SURGE VOLUME	8,367	GALLONS	
SURGE FACTOR	1.0	GAL/SFT	
SURGE TANK - SLIDE STORAGE VOLUME	4,200	GALLONS	
CIRCULATION RATE	1,466	GPM	
TURNOVERVOLUME/FLOW	60 MIN.	58,252 GAL.	1,041 GPM
TURNOVERVOLUME/FLOW	240 MIN.	102,006 GAL.	425 GPM
BACKWASH RATE	912	GPM	
PATRON LOAD	399	PERSONS	

**POOL C-LAP DATA**

DESCRIPTION	QTY	UNITS	
POOL PERIMETER	299	FEET	
WATER SURFACE AREA	4,505	SQUARE FEET	
POOL VOLUME	257,944	GALLONS	
SURGE TANK - POOL SURGE VOLUME	4,713	GALLONS	
SURGE FACTOR	1.0	GAL/SFT	
CIRCULATION RATE	1,075	GPM	
TURNOVERVOLUME/FLOW	240 MIN.		
FILTRATION RATE	12.30	GPM/FT²	
BACKWASH RATE	658	GPM	
PATRON LOAD	226	PERSONS	



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DATE	ISSUED
02-12-20	OC
02-03-20	BID PACKAGE 1
01-21-20	50% CD's (U/GHT)

NO.	DATE	REVISION

PROJECT NO. **18056**

DRAWING TITLE  
**OVERALL AQUATIC PLAN**

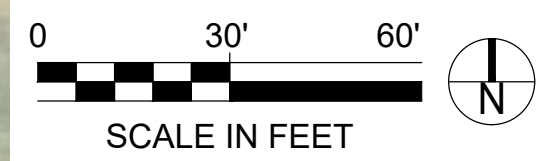
**PL100**





OVERALL PARCEL BOUNDARY

PROJECT LIMIT OF WORK



**PRELIMINARY**  
NOT FOR  
CONSTRUCTION

KEITH B HALL  
#1718976  
EXP. DATE: 12.31.2019

**MKSK**

LANDSCAPE ARCHITECTURE + URBAN PLANNING  
402 SOUTH LUDLOW ALLEY  
COLUMBUS, OH 43215  
614.621.2796  
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**DUBLIN COMMUNITY POOL NORTH**  
**CITY OF DUBLIN**  
5660 DUBLINSHIRE DR  
DUBLIN, OH 43017

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DATE	ISSUED
02-20-20	SITE P&Z SUBMISSION
03-20-20	SITE P&Z UPDATE

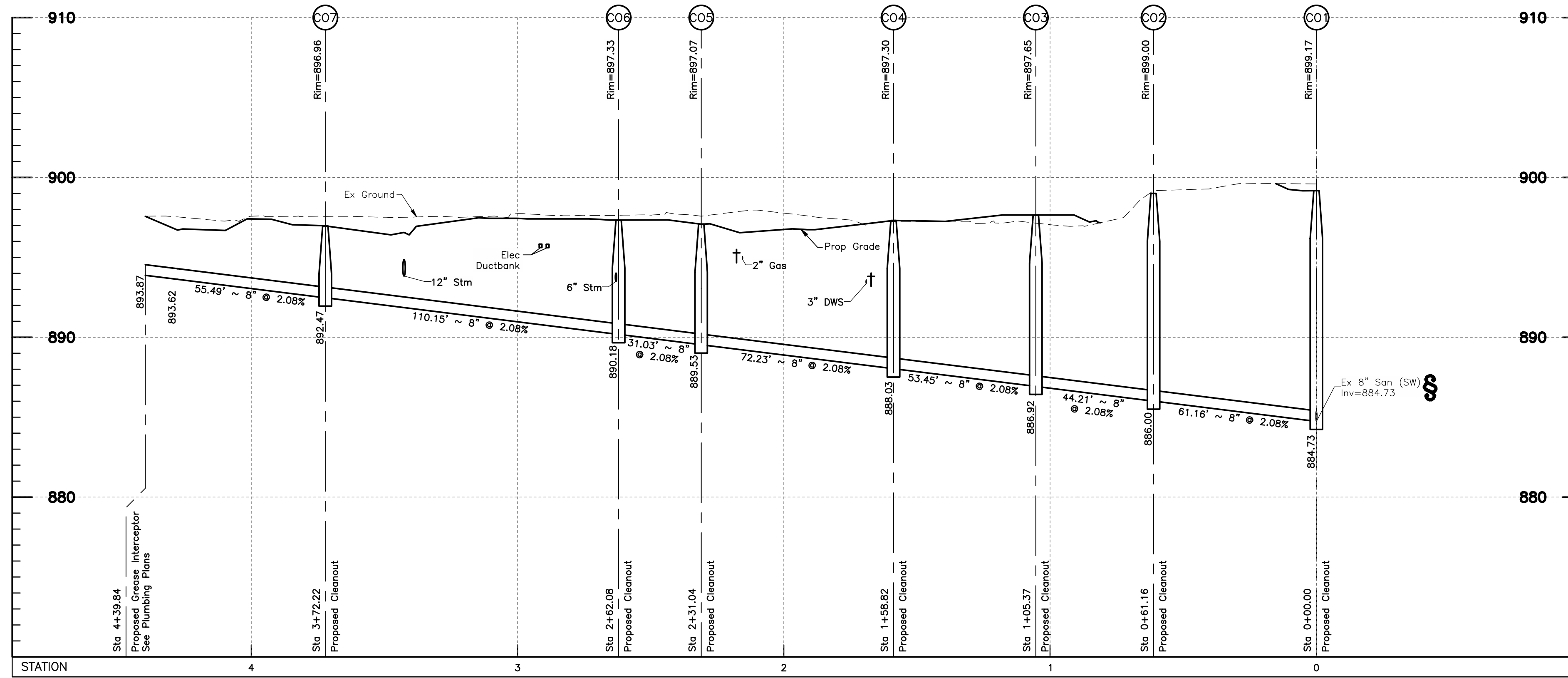
NO.	DATE	REVISION

PROJECT NO. **18156.00**

DRAWING TITLE  
**FULL  
PARCEL  
MAP**

**L0.1**





**NOTES:**

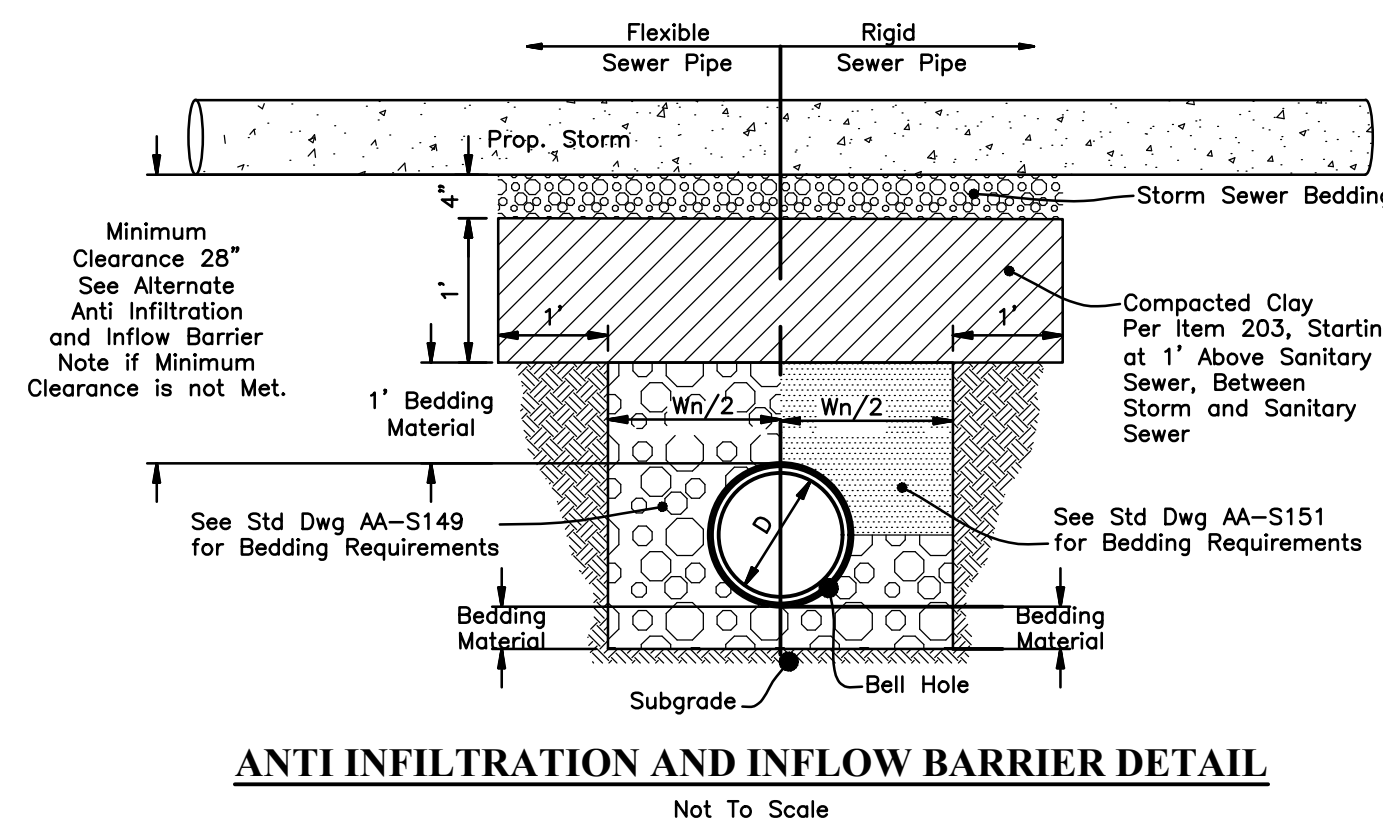
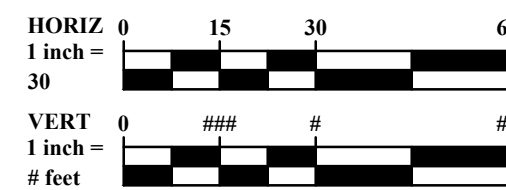
All elevations on this plan are based on NAVD 1988 datum, unless otherwise noted.

All backfill shall be compacted to the density of the existing ground unless otherwise noted.

# See Anti-Infiltration and Inflow Barrier Detail, This Sheet.

† Contractor shall maintain a 1.5' minimum clearance from outside of pipe to outside of pipe for all utility crossings unless otherwise noted.

§ Contractor to verify invert and location of existing utility before construction.



Flexible Sewer Pipe		Rigid Sewer Pipe	
D	W <sub>n</sub>	D	W <sub>n</sub>
* Inches		* Inches	
6	30	6	24
8	30	8	27
10	30	10	30
12	32	12	32
15	36	15	36
18	40	18	40
21	44	21	44
		24	48
		27	52

**ALTERNATE ANTI INFILTRATION AND INFLOW BARRIER NOTE**

The Standard Anti Infiltration and Inflow Barrier Shown Requires a Minimum of 28" Clearance Between the Stormsewer and the Sanitary Mainlines and Service Laterals. At Crossings where 28" of Clearance cannot be Obtained a Bentoflex® Thermal Lock Geosynthetic Clay Liner or Approved Equal, with Alternate Drawing, shall be Installed as per the Manufactures Specifications and shall be Constructed to the Limits Specified for the Standard Anti Infiltration and Inflow Barriers.

**DUBLIN COMMUNITY POOL NORTH**  
CITY OF DUBLIN  
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DUBLIN, OH 43017

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**DATE** 03/18/2020 **ISSUED** Bid Package 2.75%

**NO. DATE REVISION**

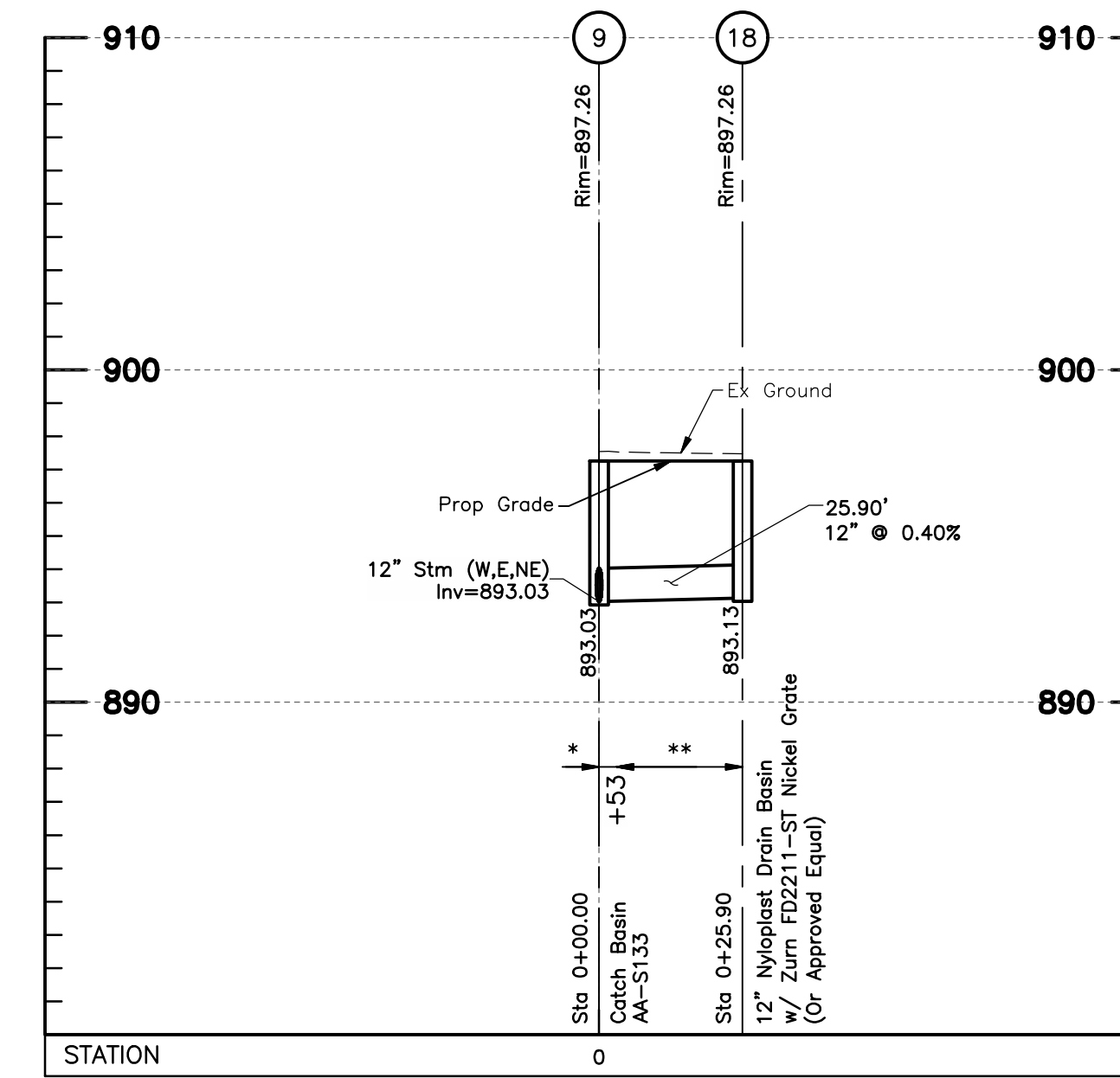
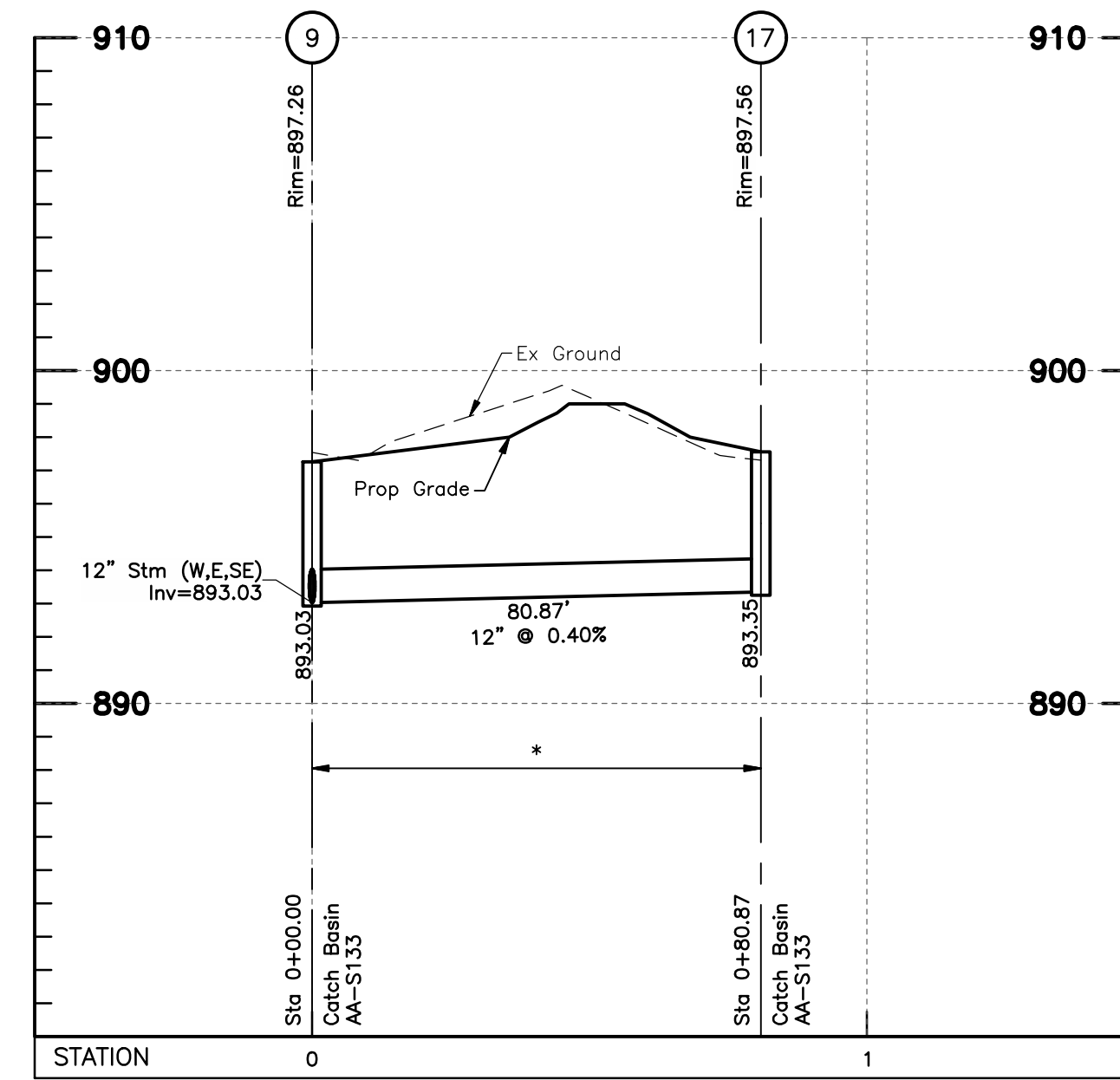
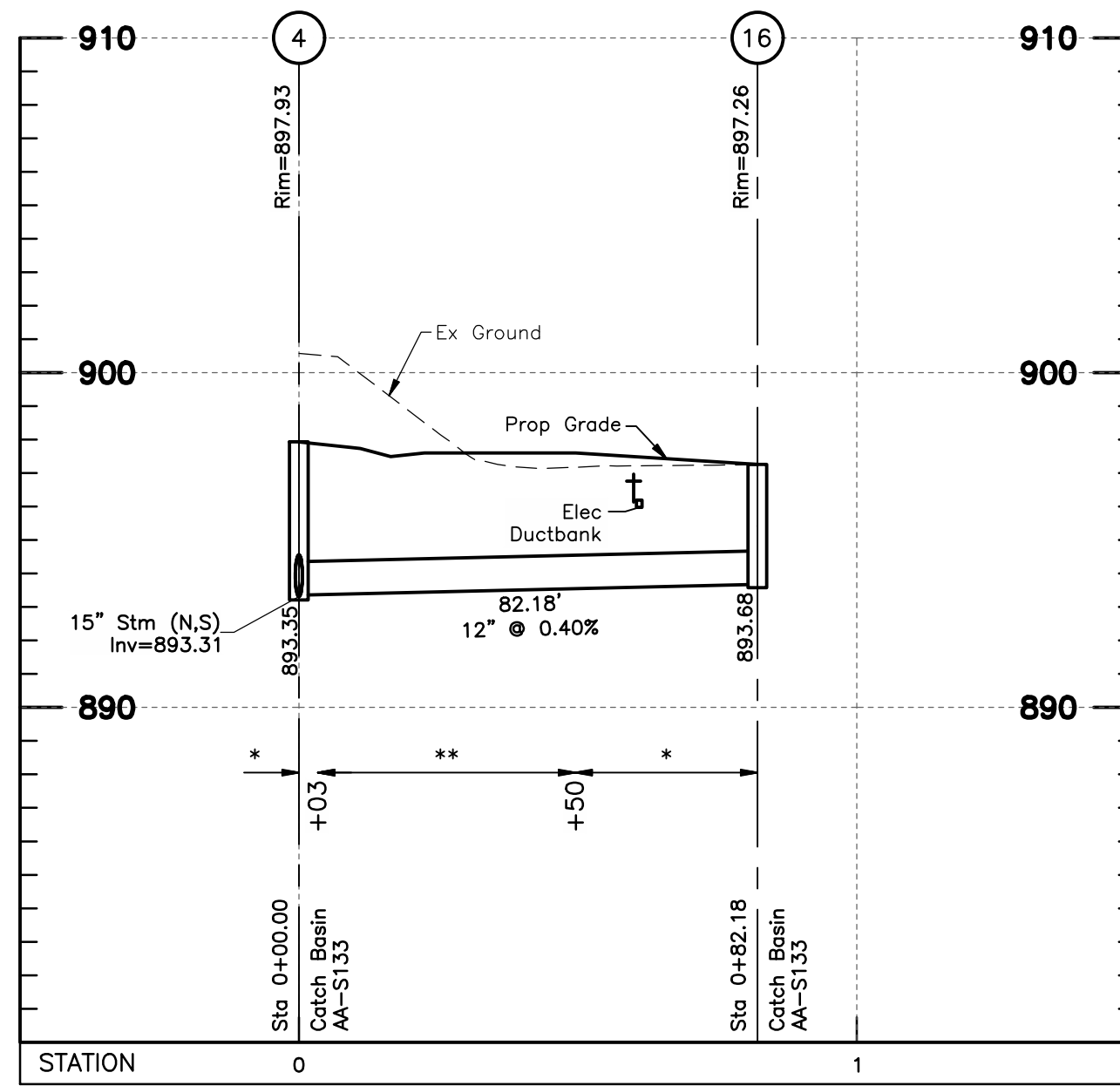
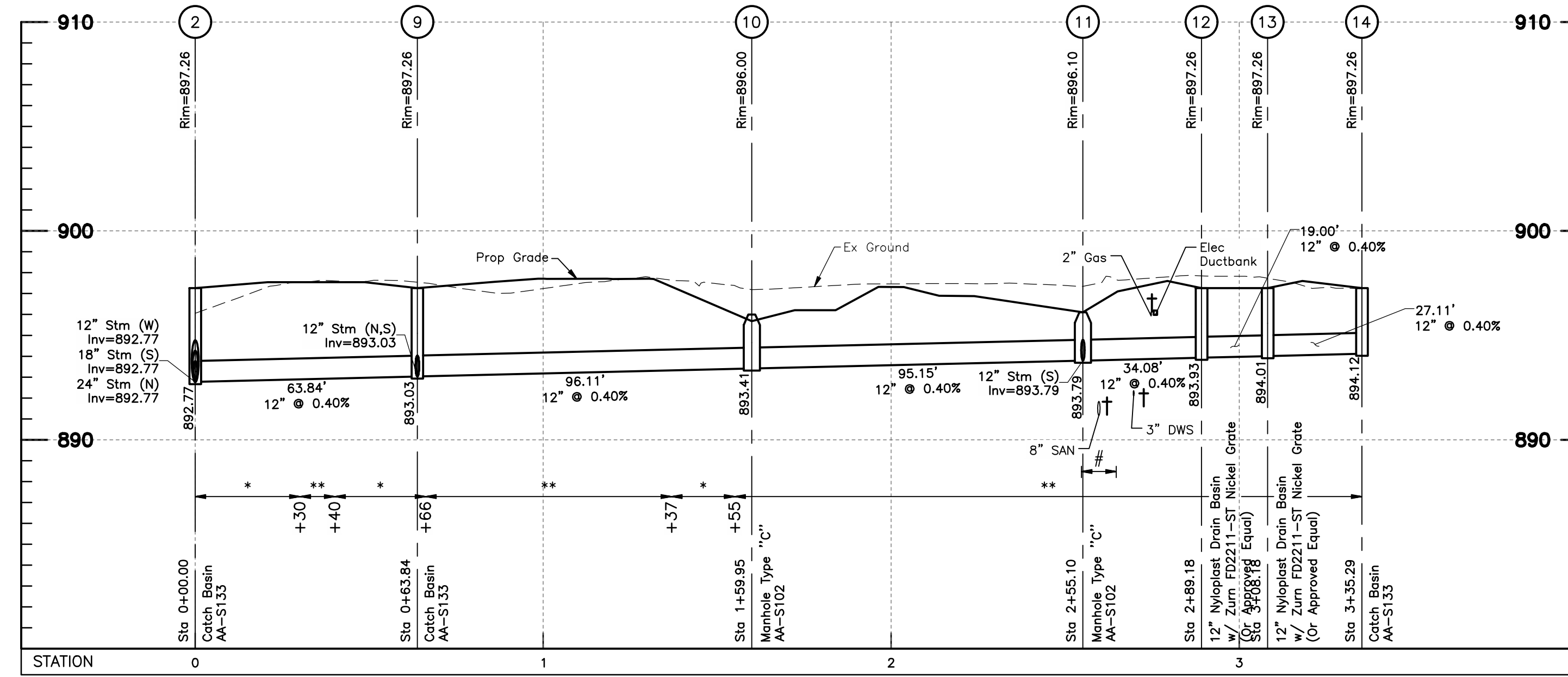
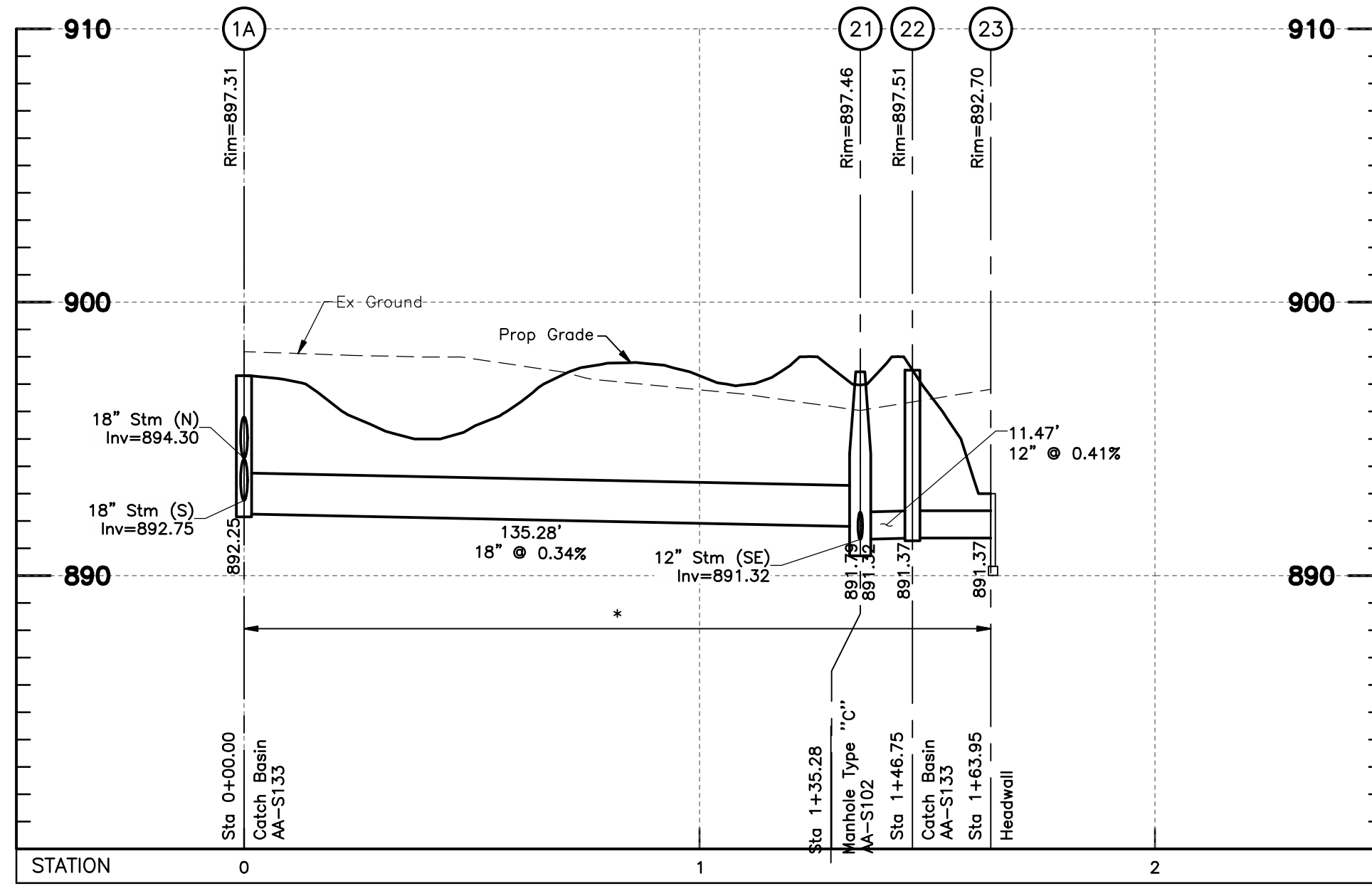
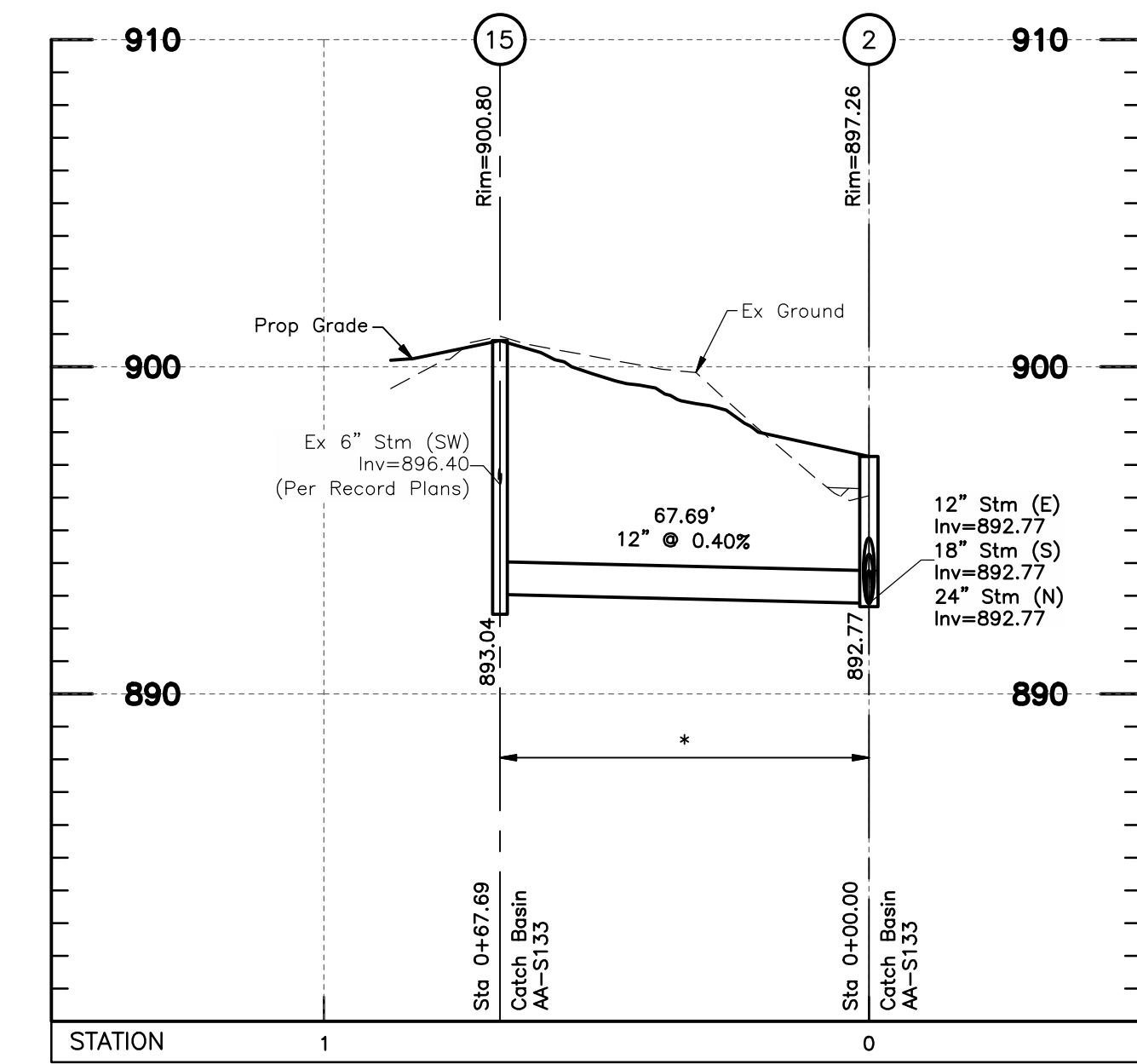
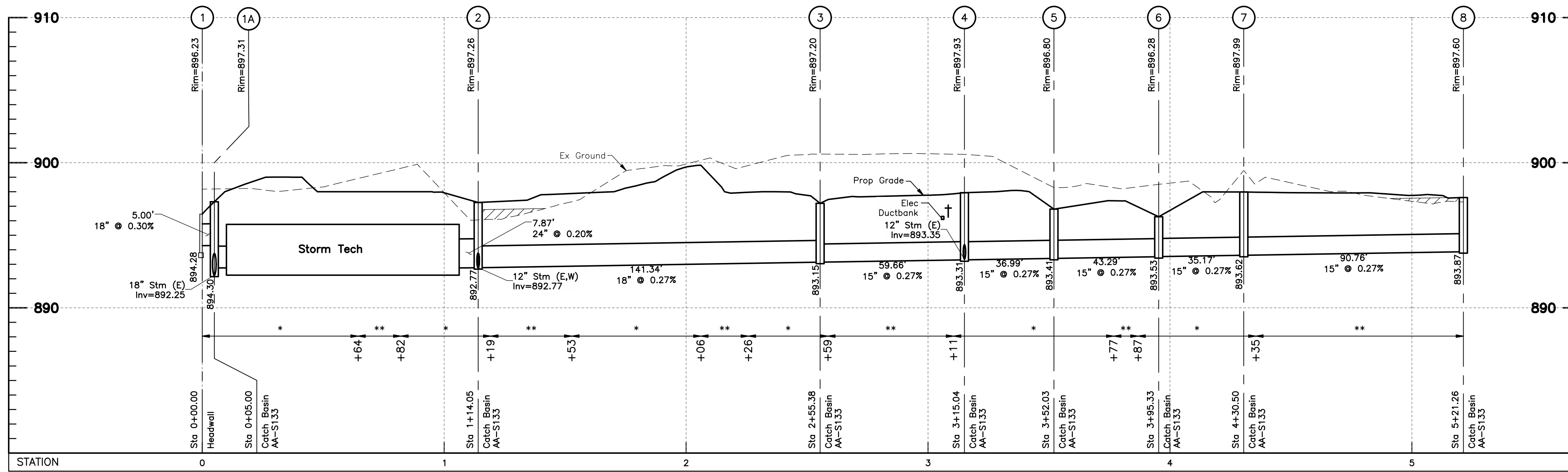
**PROJECT NO.** 18156.00

**DRAWING TITLE**  
SANITARY SEWER PROFILES

**C3.0**



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**NOTES:**

All elevations on this plan are based on NAVD 1988 datum, unless otherwise noted.

The RIM elevations shown on the plans for proposed Manholes/Catch Basins match the existing or proposed surface.

All backfill shown as noted:

\* Compacted Backfill, Per Item 911

\*\* Compacted Granular Backfill, Per Item 912

All fills are to be placed a minimum of 2.5' above the proposed storm sewer prior to the start of sewer construction per Item 203 of CMSC.

Denoted Thus:

(+) Pipe runs (denoted with "+") are to be sanitary grade(watertight) and have watertight joints per City of Columbus Construction and Material Specification 901.15, and Trench Dams per City of Columbus Construction and Material Specification 901.11. This applies to full pipe length, from structure to structure.

† Contractor shall maintain a 1.5' minimum clearance from outside of pipe to outside of pipe for all utility crossings unless otherwise noted.

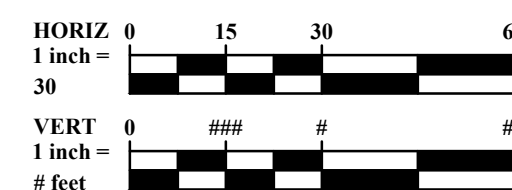
# Anti-Infiltration Barrier - See Detail, Sheet C3.0.

§ Contractor to verify invert and location of existing utility before construction.

Limits of Concrete Encasement to be established in accordance with pipe manufacturers specifications & requirements. Costs to be included with the price bid for the related pipe.

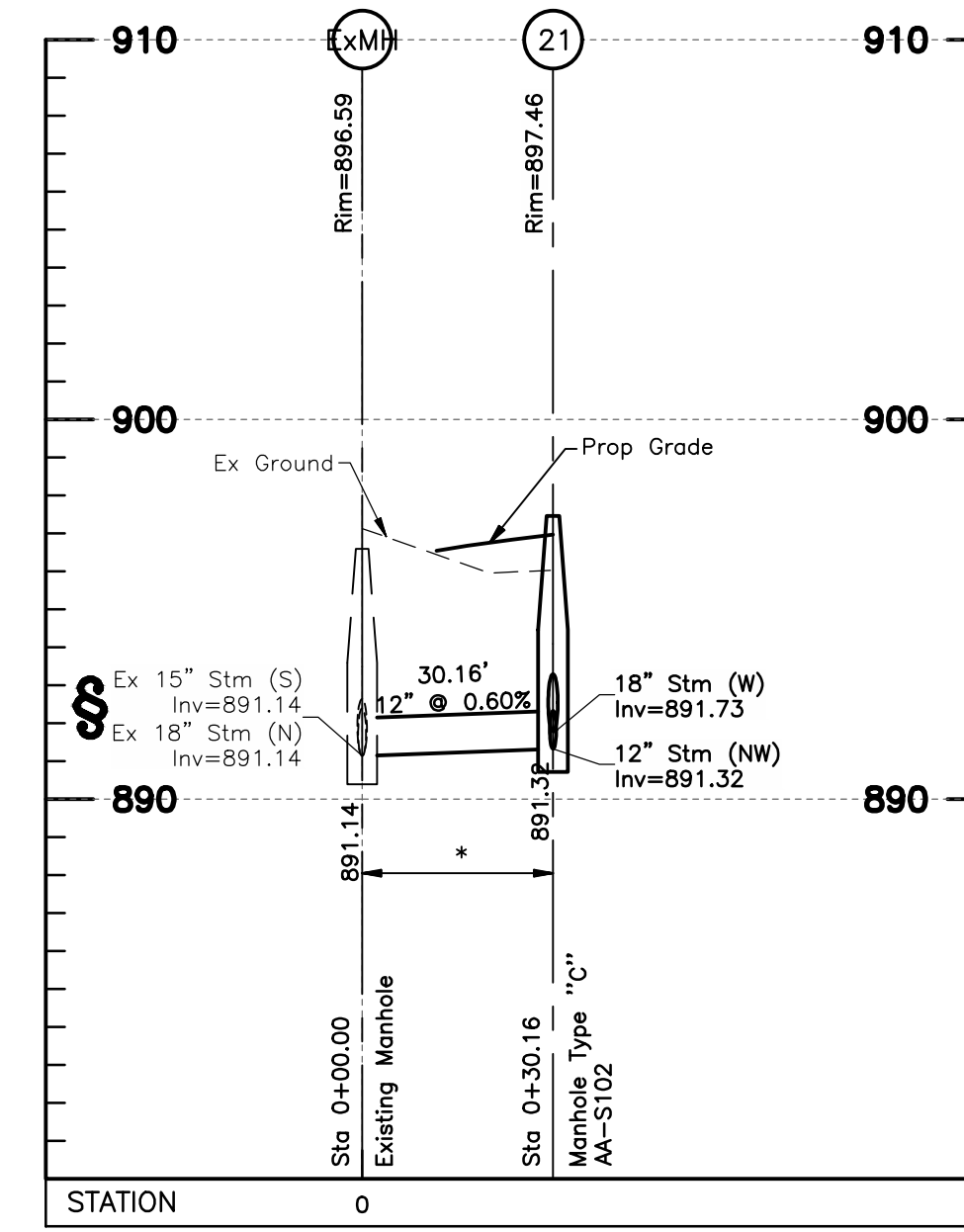
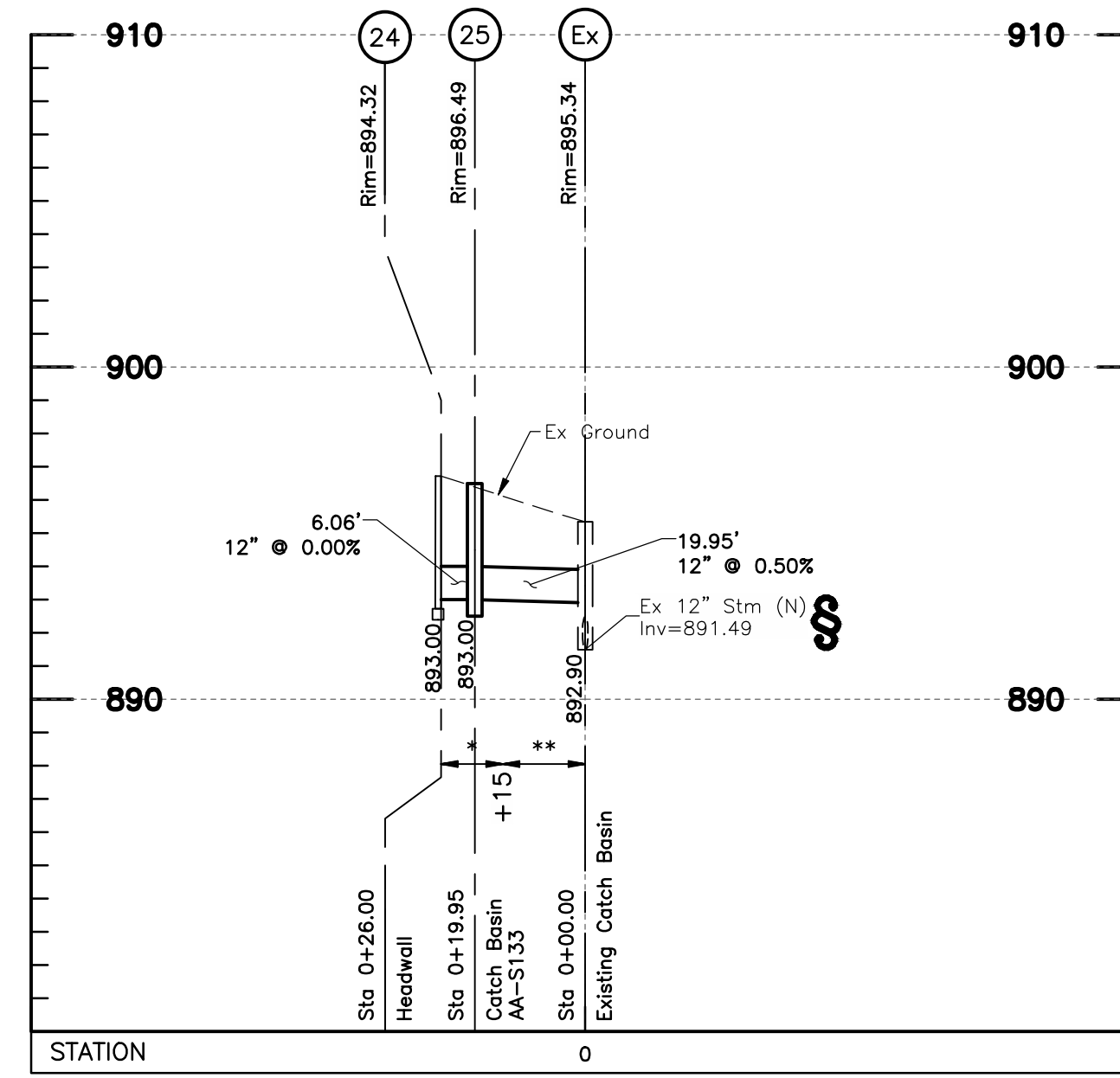
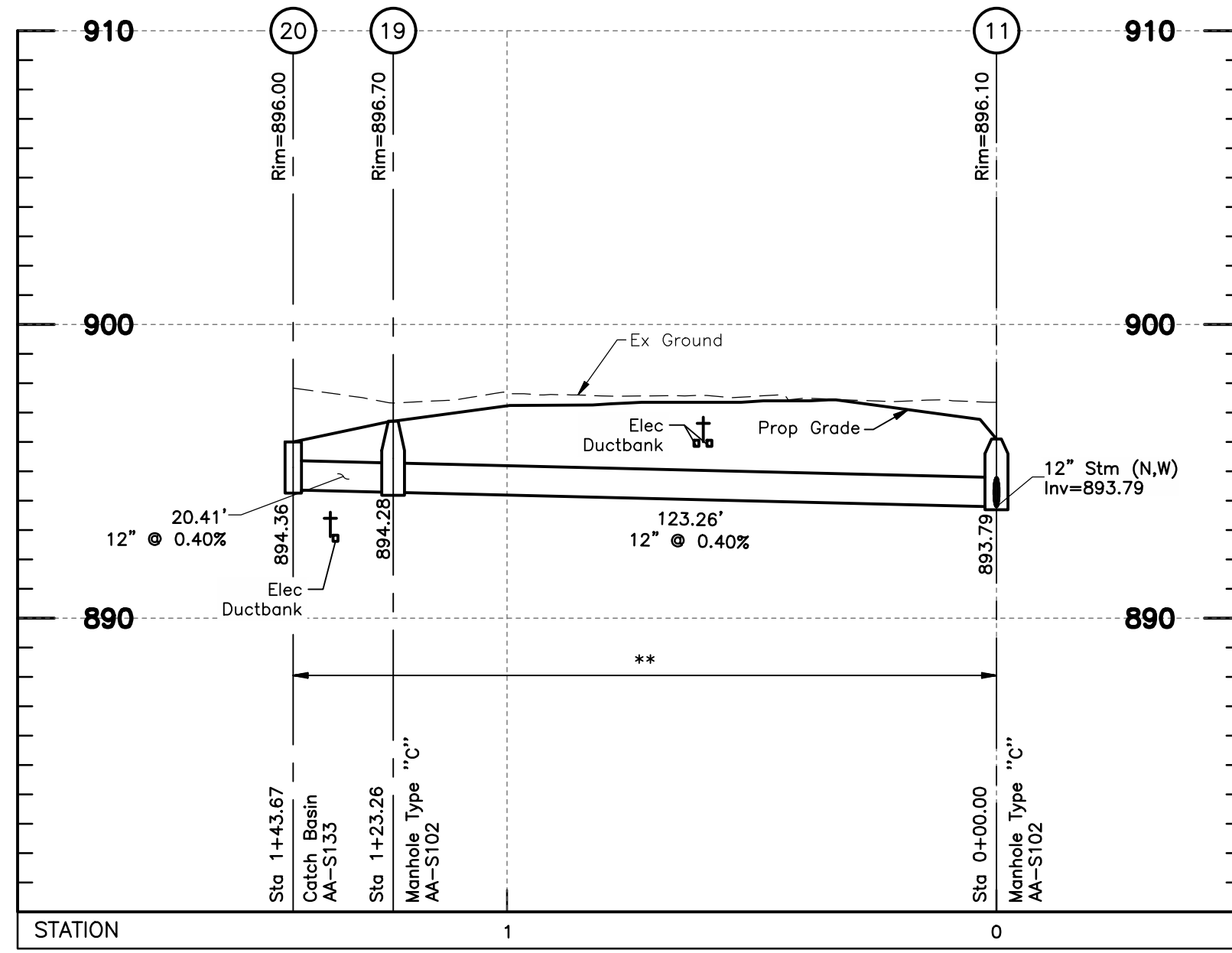
All Stationing is to the C/L of the structure unless otherwise noted.

The Contractor shall make allowance in their bid for possible adjustment to grade of proposed Manhole/Catch Basin tops and shall receive no additional compensation because of any such adjustments that are required to be made.





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**NOTES:**

All elevations on this plan are based on NAVD 1988 datum, unless otherwise noted.

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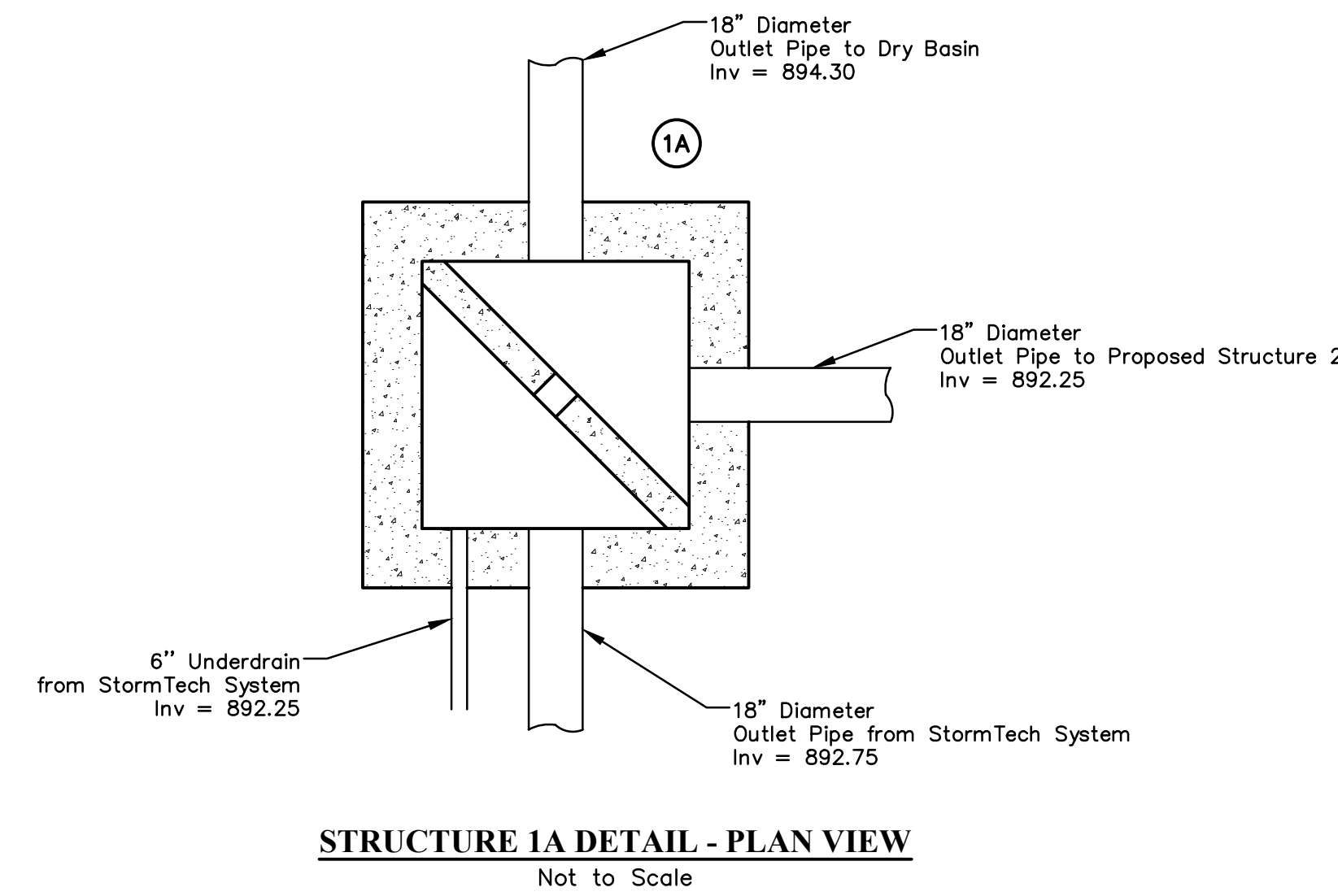
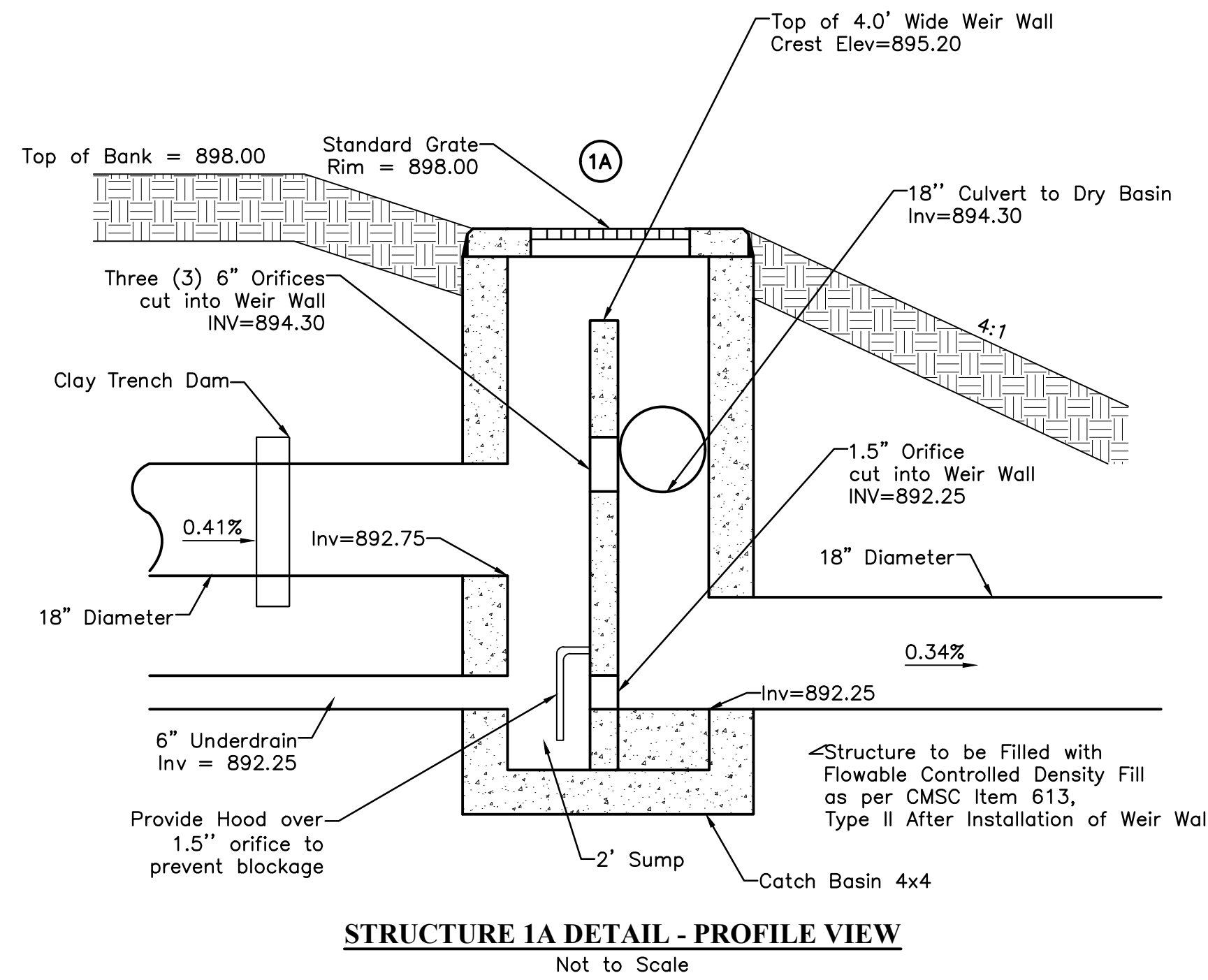
# Anti-Infiltration Barrier - See Detail, Sheet C3.0.

\$\$\$ Contractor to verify invert and location of existing utility before construction.

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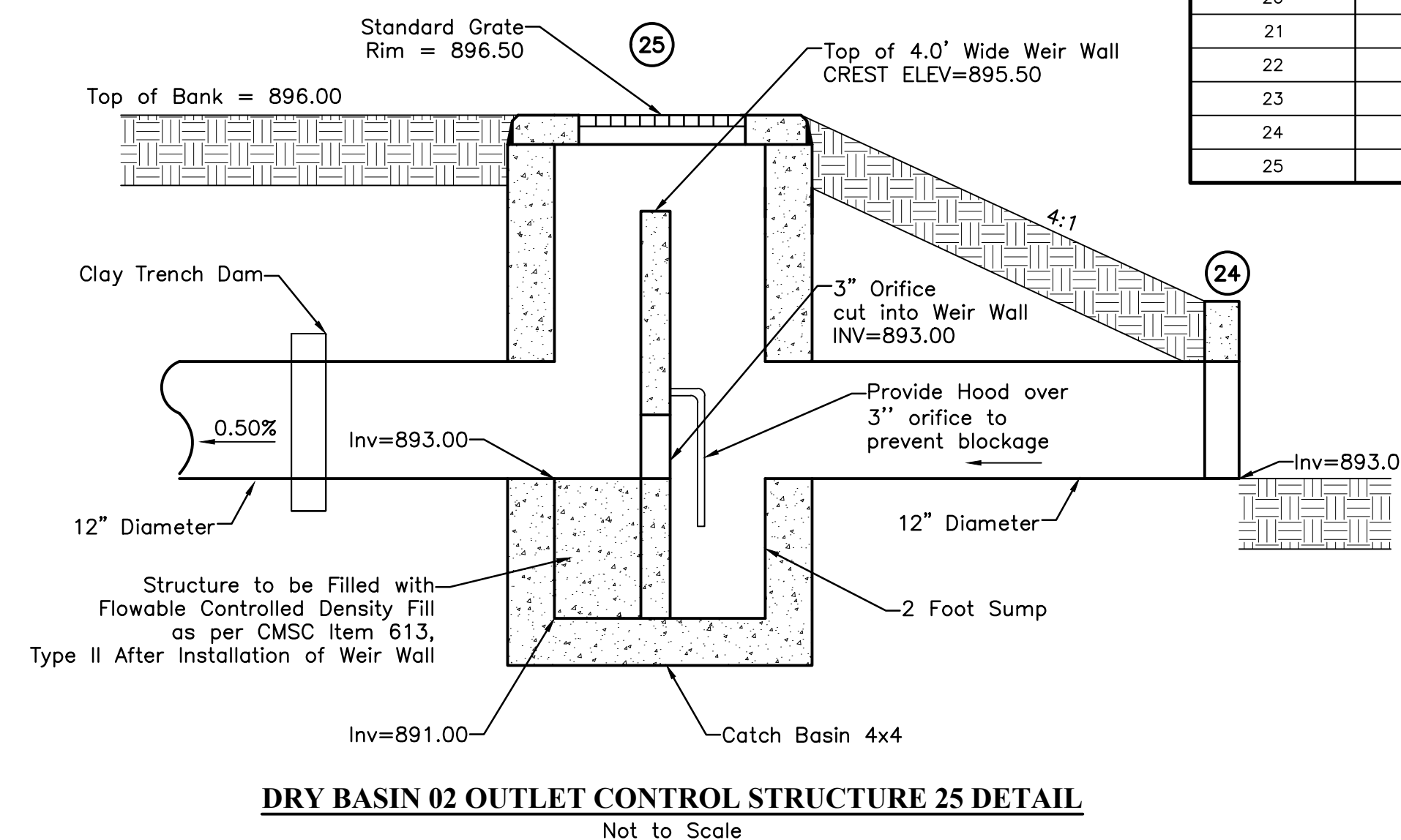
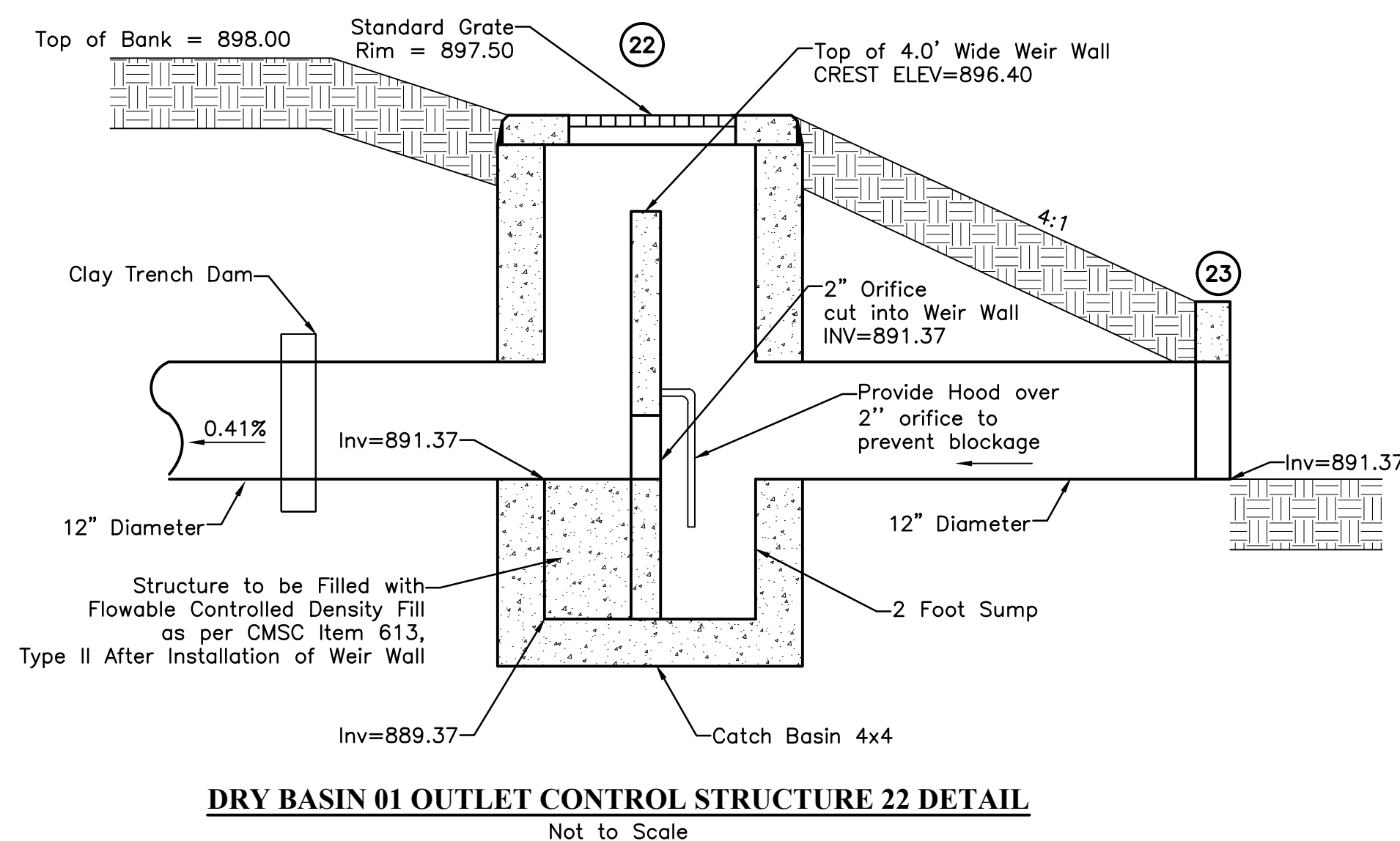
All Stationing is to the C/L of the structure unless otherwise noted.

The Contractor shall make allowance in their bid for possible adjustment to grade of proposed Manhole/Catch Basin tops and shall receive no additional compensation because of any such adjustments that are required to be made.



STRUCTURE COORDINATES				
STRUCTURE #	NORTHING - PLAN	EASTING - PLAN	NORTHING - AS BUILT	EASTING - AS BUILT
ExMH	774148.6622	1788349.7631		
EP1	774172.1642	1788193.7340		
EP2	774076.2022	1788187.2621		
Ex	773808.6114	1788529.3099		
1	774182.1415	1788194.4070		
1A	774177.1529	1788194.0705		
2	774068.3548	1788186.7328		
3	773937.3875	1788133.5908		
4	773878.0200	1788127.6944		
5	773847.6245	1788148.7778		
6	773804.3978	1788151.1860		
7	773769.3931	1788154.5608		
8	773763.1845	1788245.1105		
9	774063.5838	1788250.3925		
10	774059.1357	1788346.4011		
11	773963.9962	1788345.1510		
12	773966.2896	1788311.1454		
13	773967.5570	1788292.1877		
14	773969.3925	1788265.1384		
15	774061.8261	1788119.3605		
16	773885.0284	1788209.5790		
17	774132.2624	1788293.1010		
18	774045.2481	1788268.6867		
19	773840.9889	1788337.2731		
20	773842.3623	1788316.9080		
21	774170.7245	1788329.2002		
22	774179.0838	1788321.3449		
23	774191.6529	1788309.6036		
24	773782.6453	1788527.8968		
25	773788.6957	1788528.2261		

STORM SEWER TABLE			
LINE	BEARING	LENGTH	SIZE
1-1A	S03°51'30"W	5.00'	18"
1A-EP1	S03°51'30"W	5.00'	18"
EP2-2	S03°51'30"W	7.87'	24"
1A-21	S87°16'35"E	135.28'	18"
2-3	S22°05'08"W	141.34'	18"
21-22	N43°13'10"W	11.47'	12"
3-4	S05°40'19"W	59.66'	15"
4-5	S34°44'48"E	36.99'	15"
5-6	S03°11'19"E	43.29'	15"
6-7	S05°30'25"E	35.17'	15"
7-8	S86°04'39"E	90.76'	15"
2-9	S85°42'50"E	63.84'	12"
9-17	N31°52'33"E	80.87'	12"
9-18	S44°56'06"E	25.90'	12"
2-15	S84°27'54"W	67.69'	12"
9-10	S87°20'50"E	96.11'	12"
10-11	S00°45'10"W	95.15'	12"
11-19	S03°39'52"W	123.26'	12"
11-12	N86°08'30"W	34.08'	12"
12-13	N86°10'31"W	19.00'	12"
13-14	N86°07'05"W	27.11'	12"
19-20	N86°08'30"W	20.41'	12"
4-16	N85°06'29"E	82.18'	12"
EP1-EP2	S03°51'30"W	96.18'	42"
22-23	N43°03'00"W	17.20'	12"
24-25	N03°06'54"E	6.06'	12"
21-ExMH	S42°59'07"E	30.16'	12"
25-Ex	N03°06'54"E	19.95'	12"



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**EMHT**  
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Phone: 614.775.4500 Fax: 614.775.2648  
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**DUBLIN COMMUNITY POOL NORTH**

**CITY OF DUBLIN**

5660 DUBLINSHIRE DR  
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**DATE** 03/18/2020  
**ISSUED** Bid Package 2 75%

NO.	DATE	REVISION

PROJECT NO. **18156.00**

DRAWING TITLE  
**STORM SEWER DETAILS**

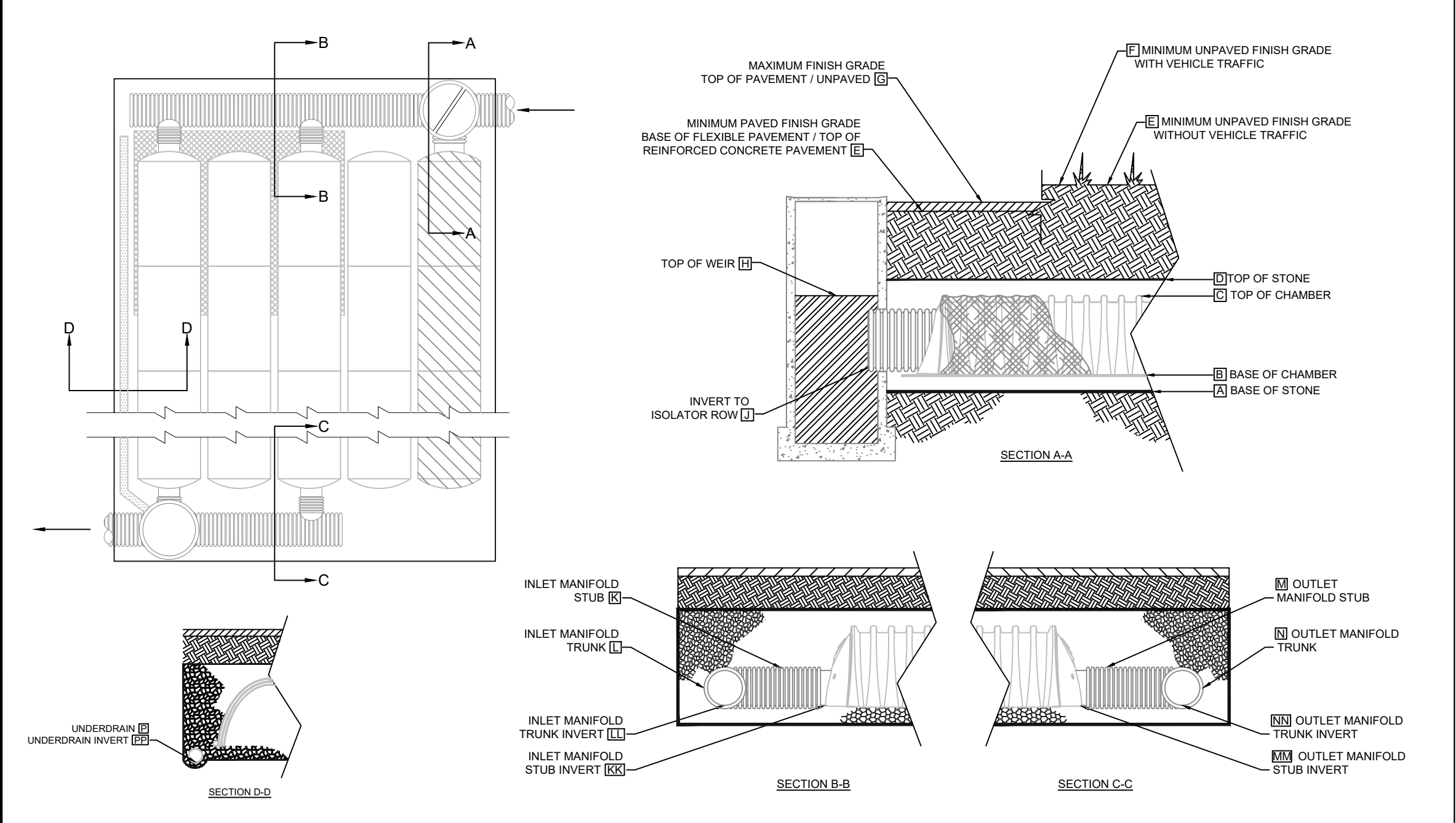
**C5.0**



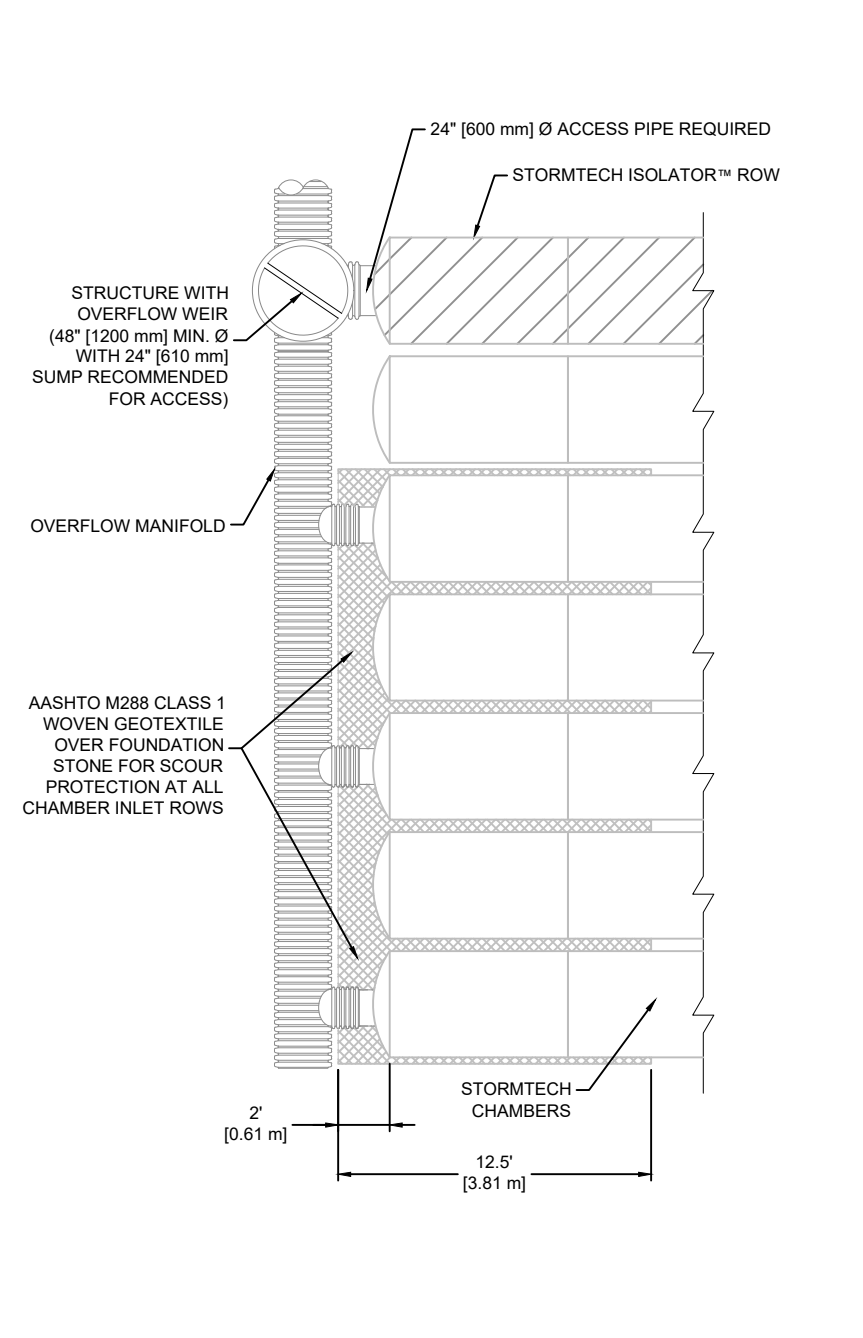
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**1 PLAN VIEW LAYOUT**

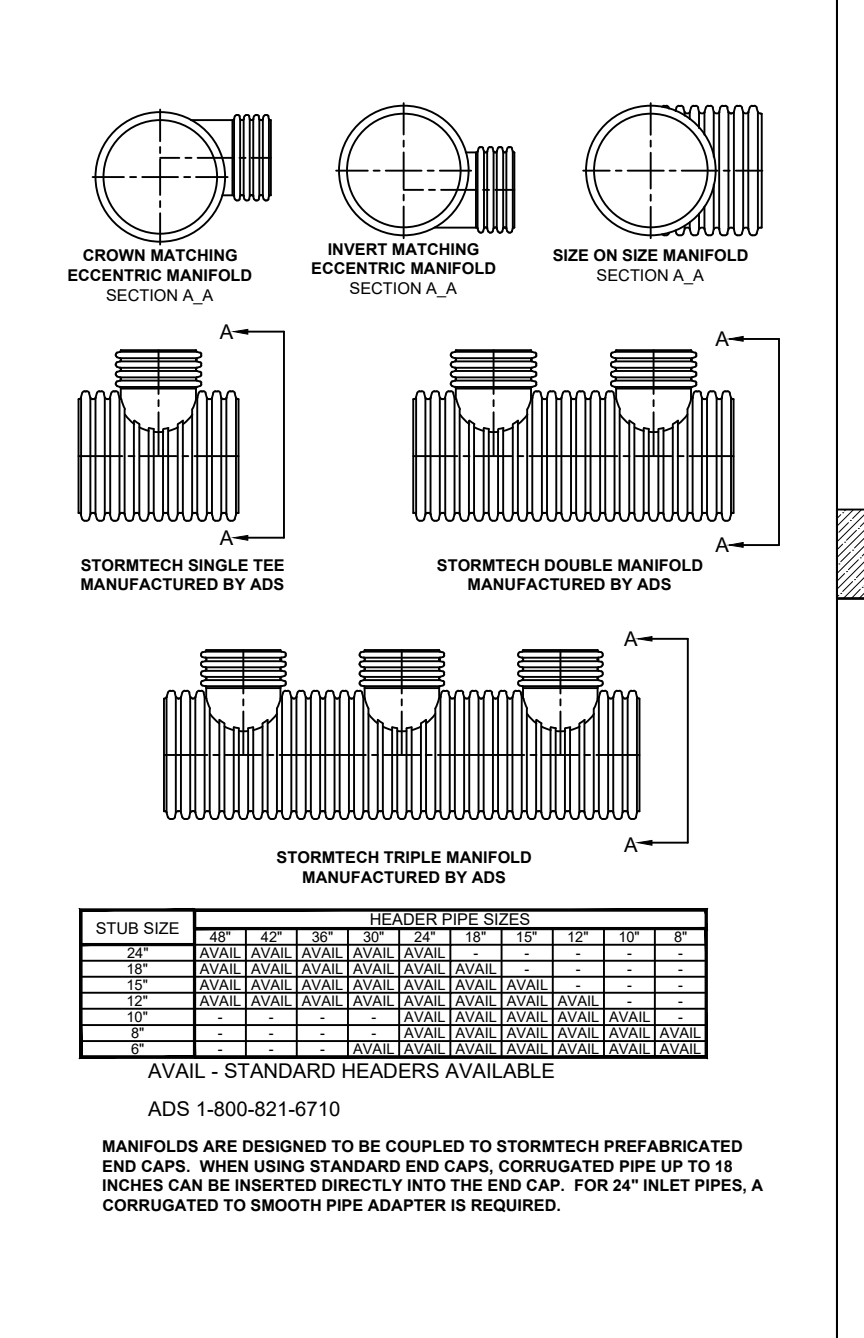
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BED 2																					
BED 3																					
BED 4																					
BED 5																					



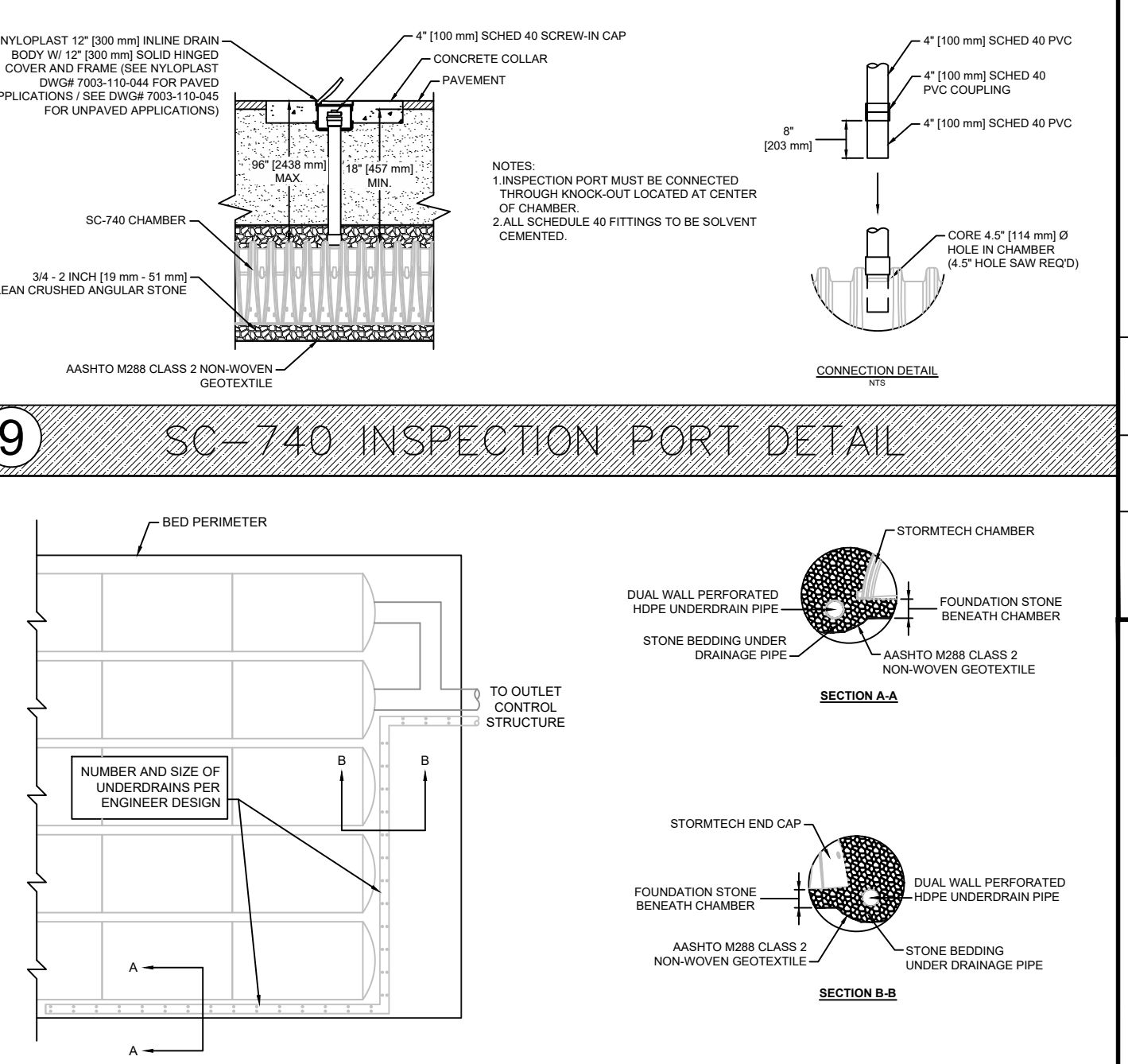
**2 SC-740 ELEVATIONS**



**3 SC-740 MANIFOLD DETAIL**



**4 SC-740 TECHNICAL SPEC.**



**5 SC-740 ISOLATOR ROW™ DETAIL**



**6 SC-740 UNDERDRAIN DETAIL**



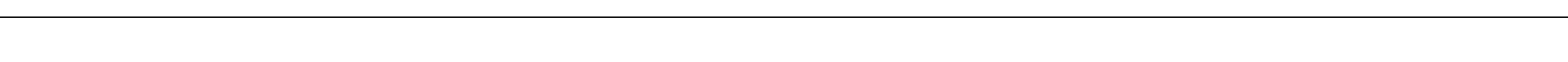
**7 SC-740 MANIFOLDS**



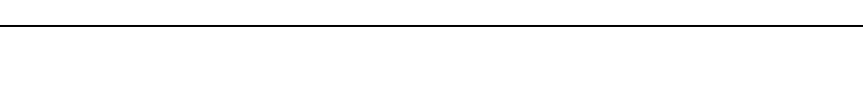
**8 SC-740 UNDERDRAIN DETAIL**



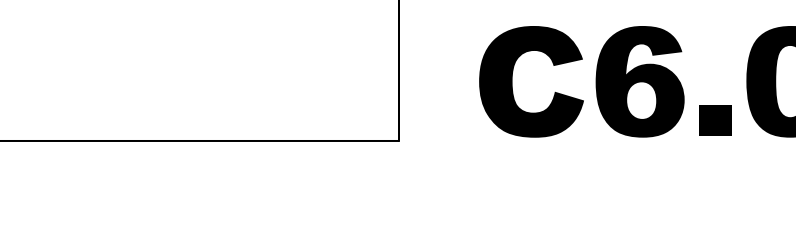
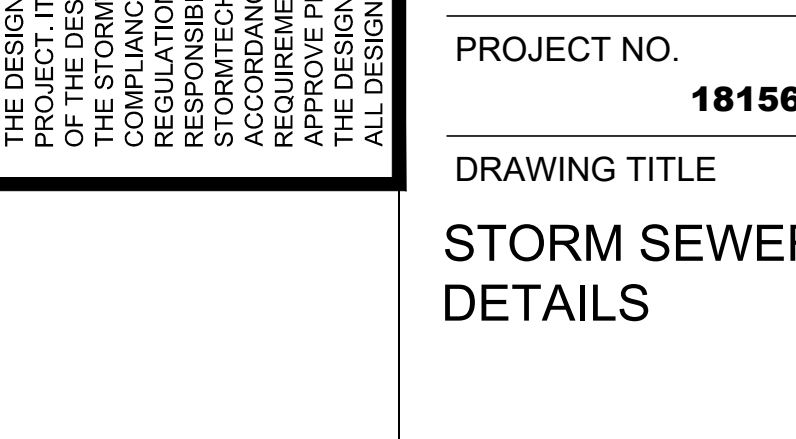
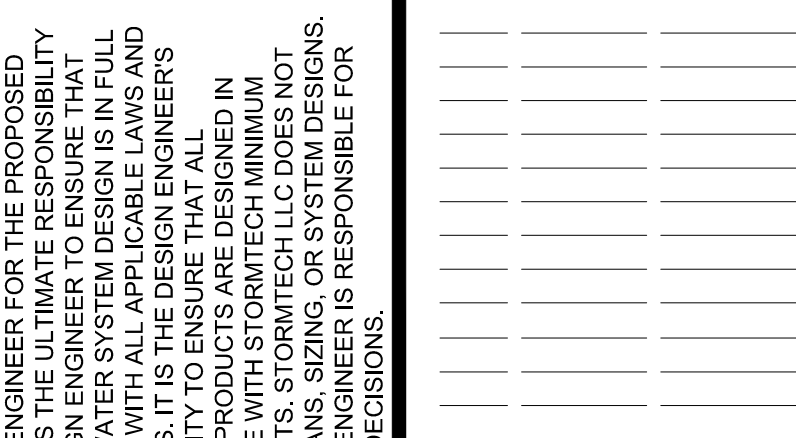
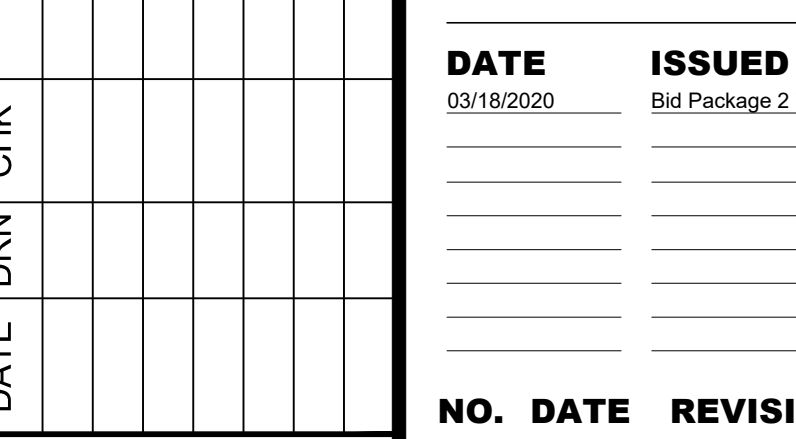
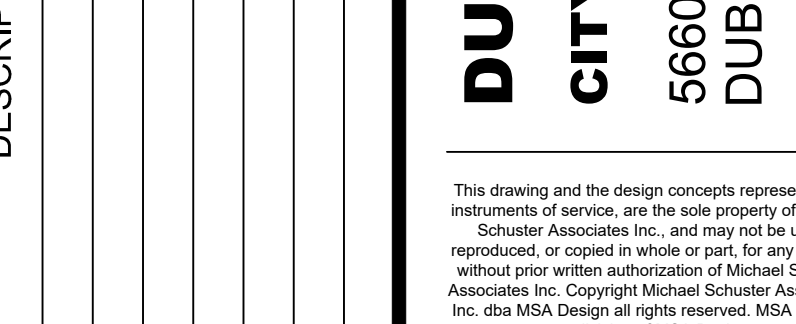
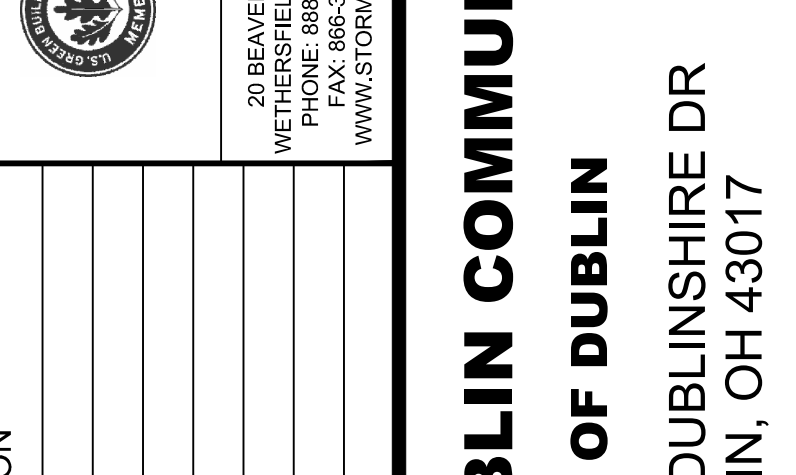
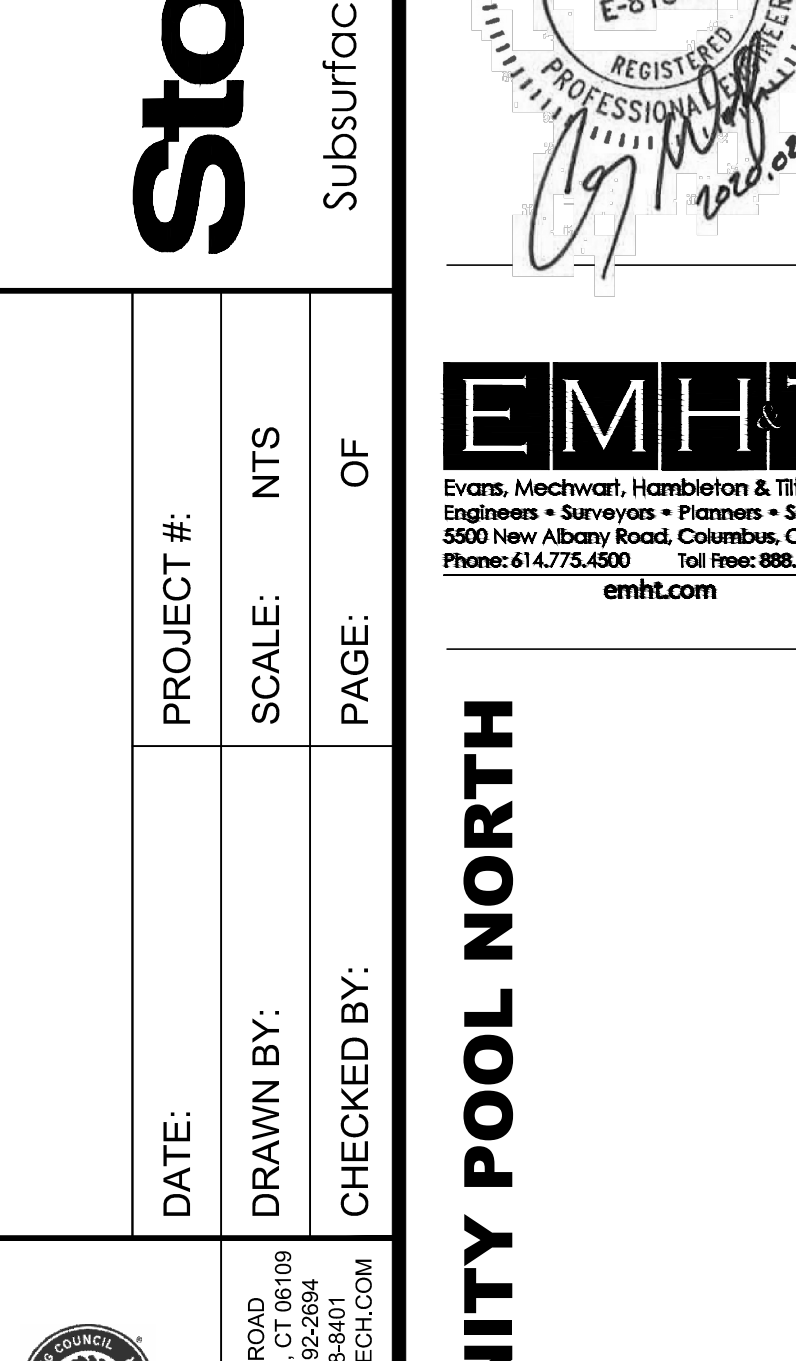
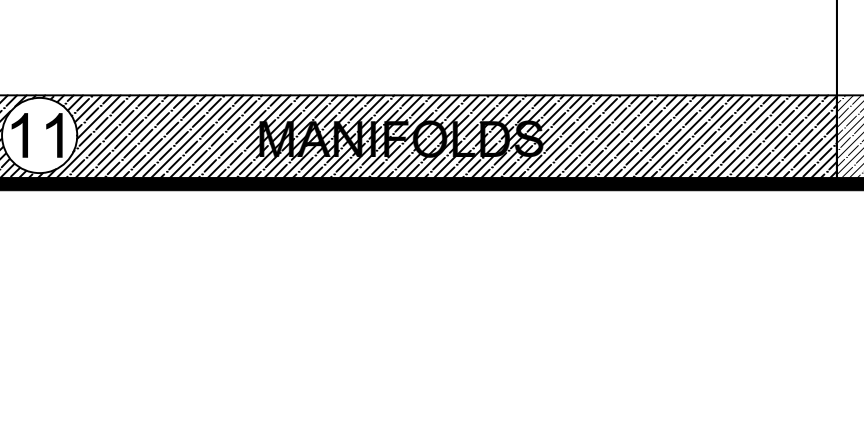
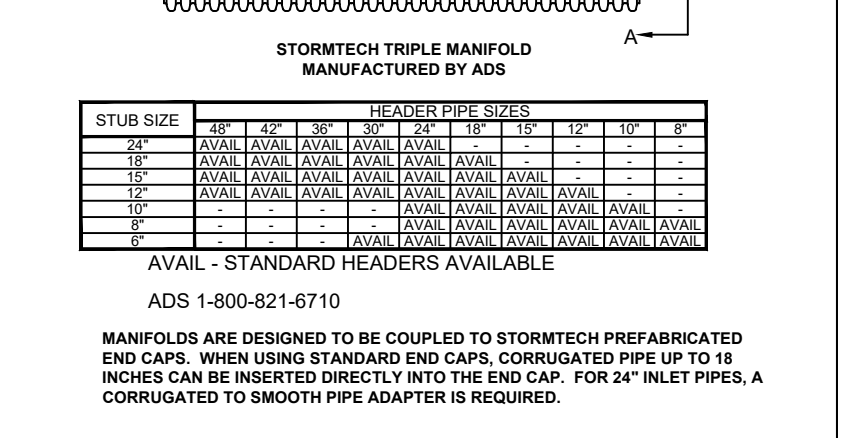
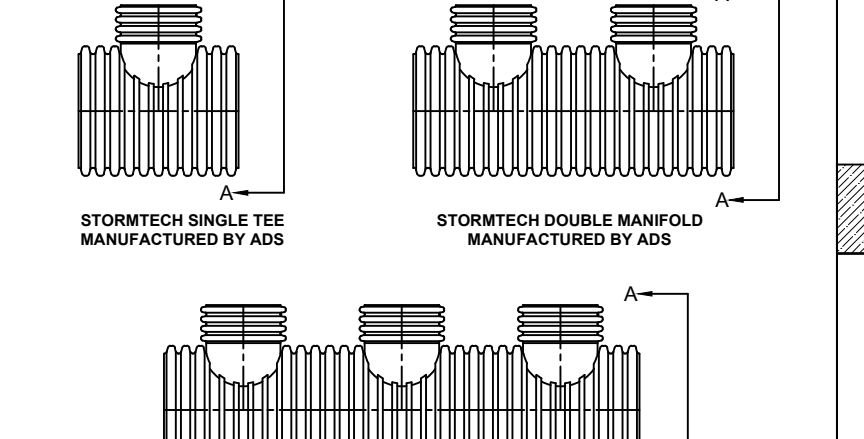
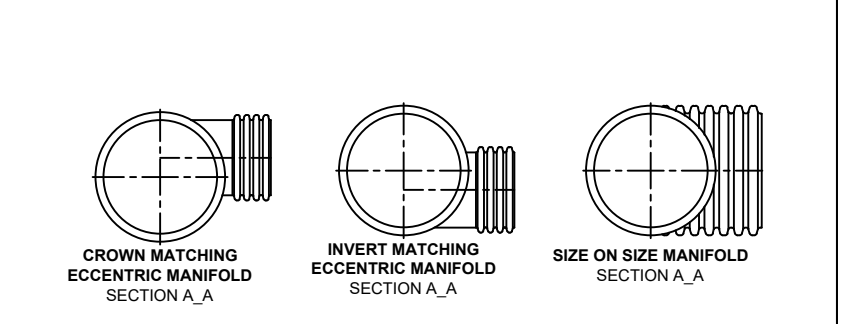
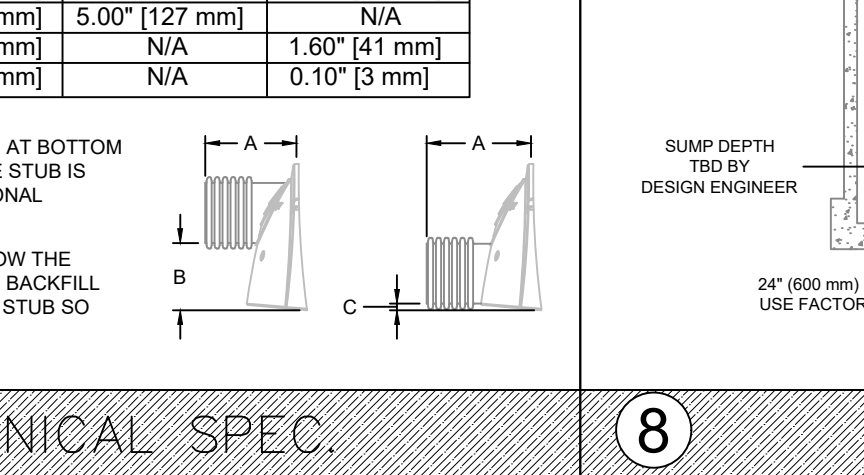
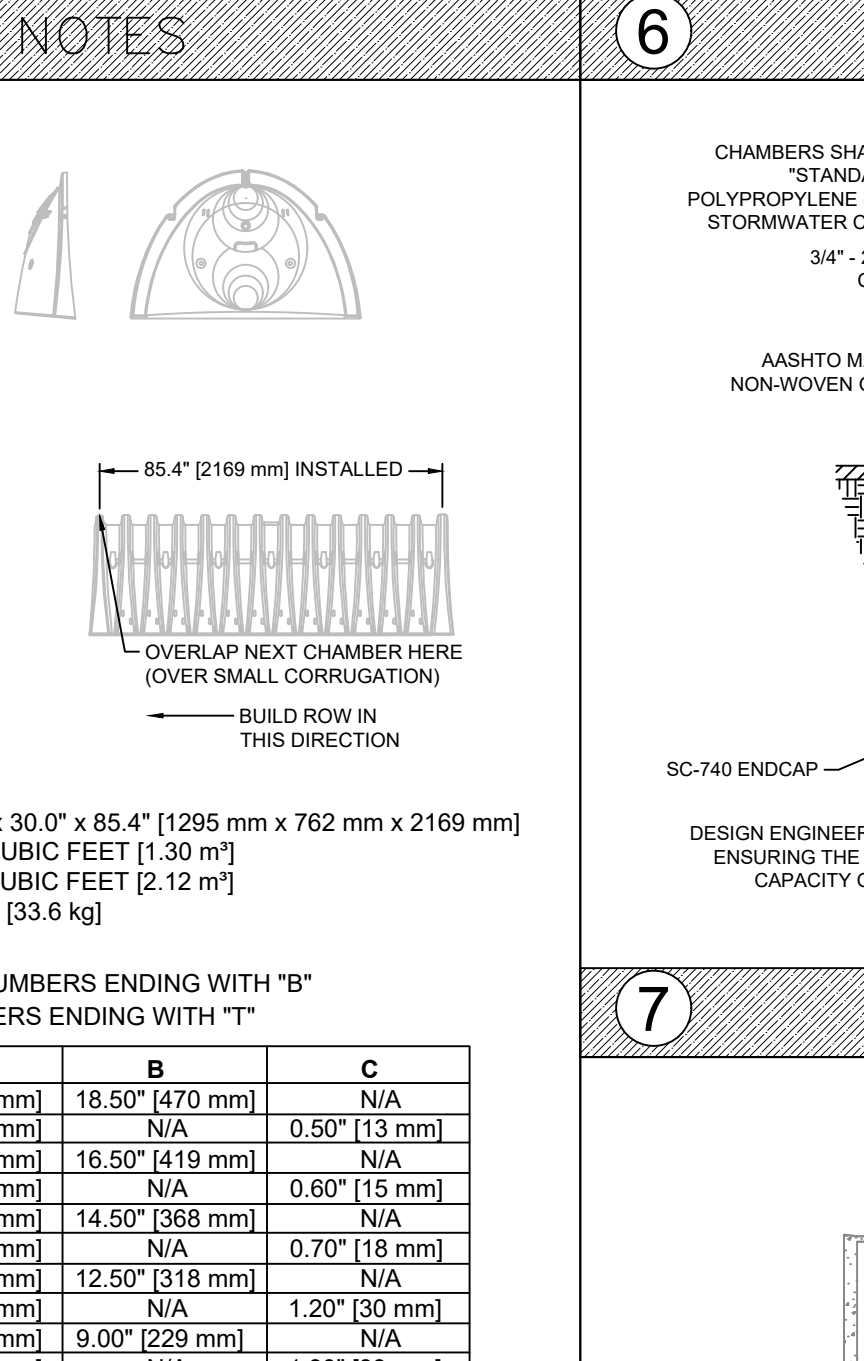
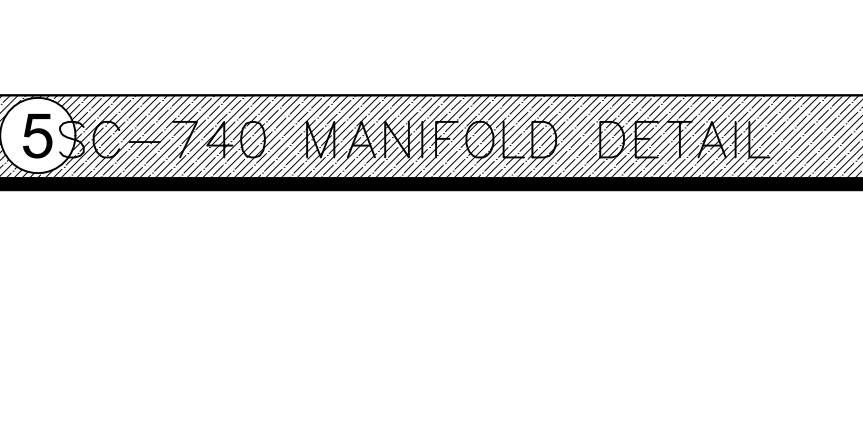
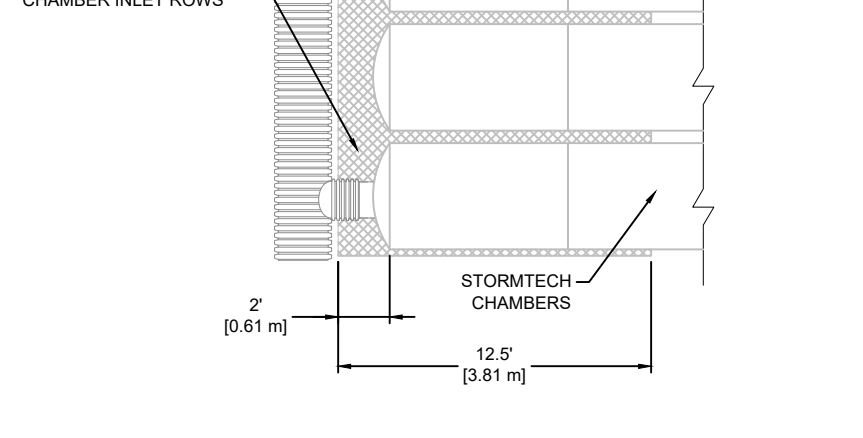
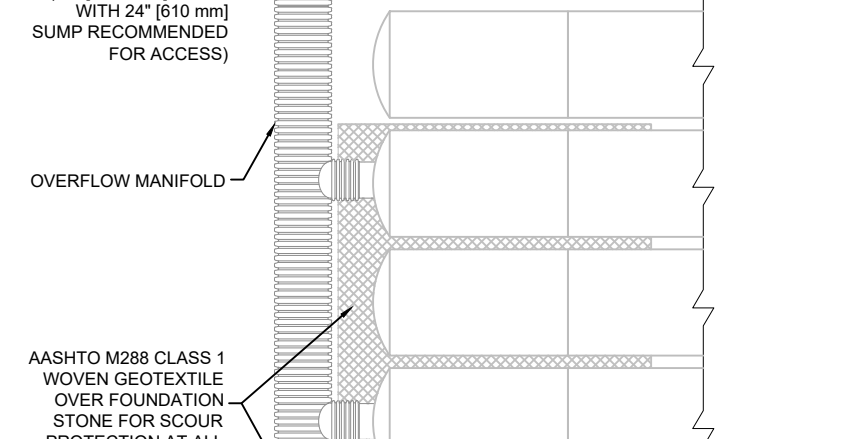
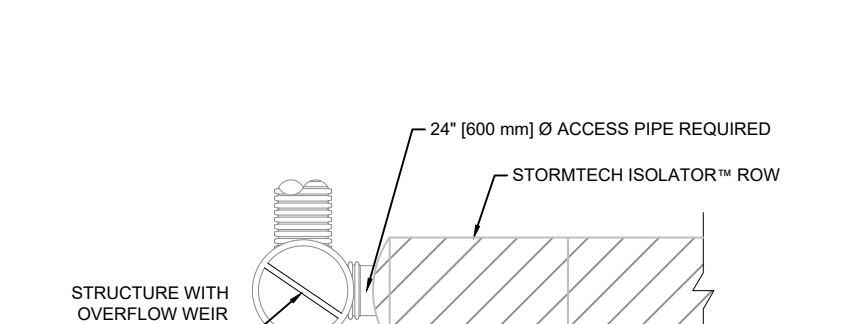
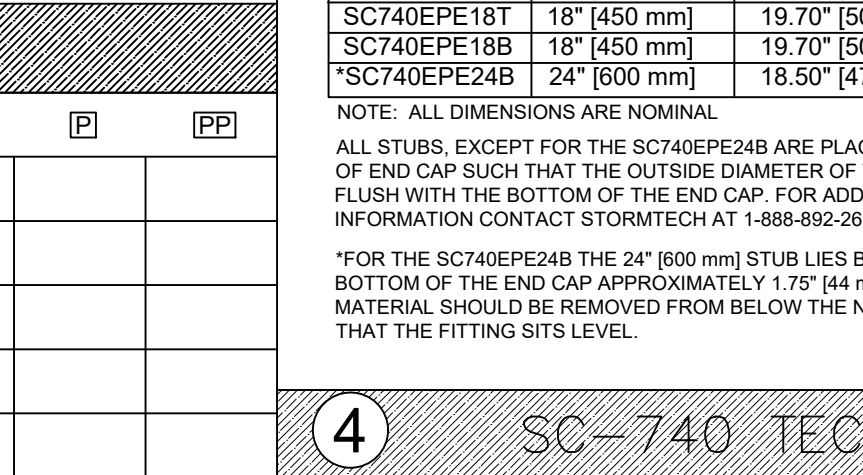
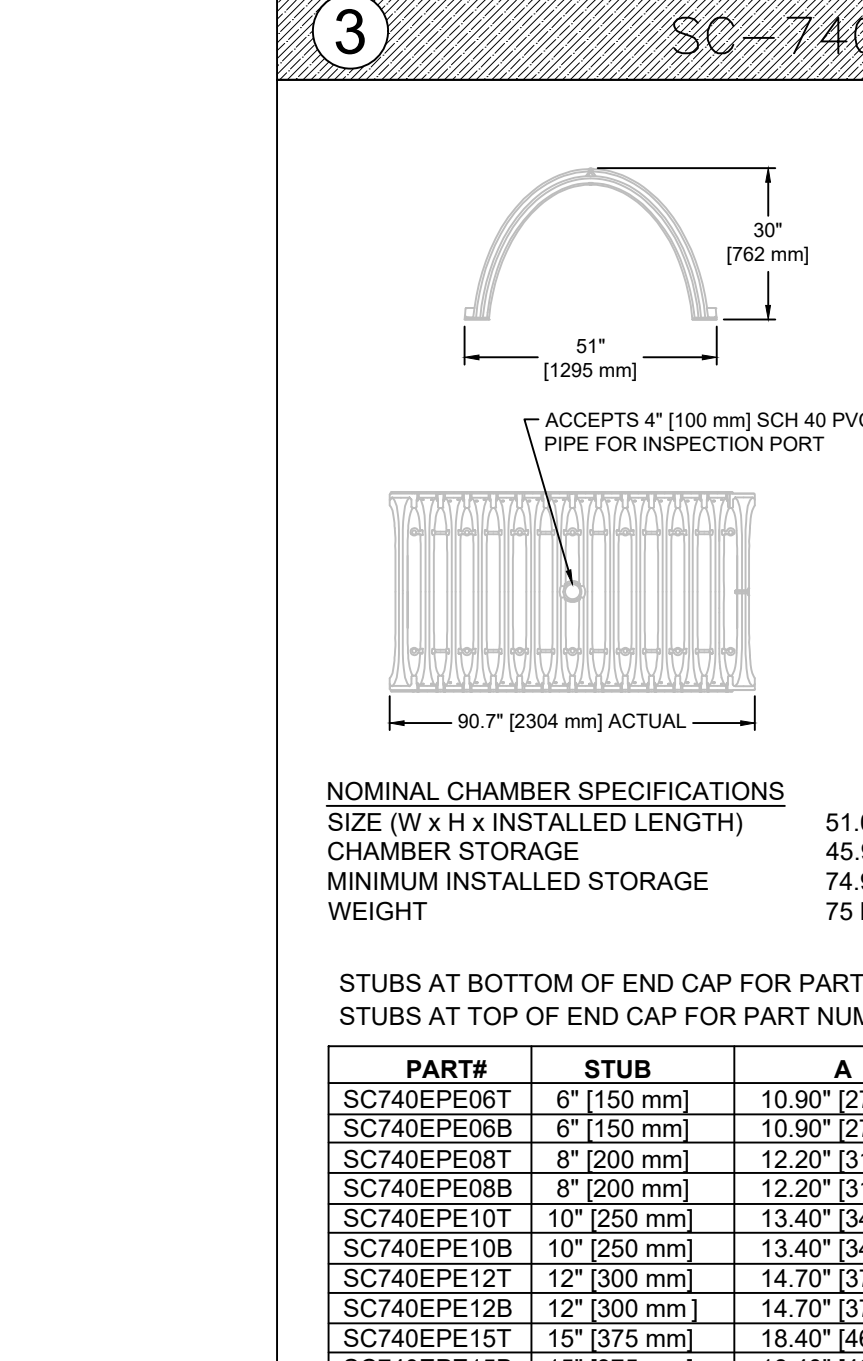
**9 SC-740 INSPECTION PORT DETAIL**



**10 SC-740 UNDERDRAIN DETAIL**



**11 MANIFOLDS**



**DUBLIN COMMUNITY POOL NORTH**  
CITY OF DUBLIN  
5660 DUBLINSHIRE DR  
DUBLIN, OH 43017

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DATE **03/18/2020**

ISSUED  
Bid Package 2.75%

NO. DATE REVISION

PROJECT NO. **18156.00**

DRAWING TITLE  
**STORM SEWER DETAILS**

