

GENERAL NOTES

1. READ ALL DRAWINGS IN CONJUNCTION WITH OTHER DISCIPLINES AND SPECIFICATIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. ALL WORK SHALL CONFORM TO THE ONTARIO BUILDING CODE (OBC) 2012, OH&S ACT AND REGULATIONS LATEST EDITIONS AS WELL AS LOCAL REGULATIONS AND BYLAWS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL SITE CONDITIONS AND MEASUREMENTS AND REPORT ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS IMMEDIATELY TO THE ENGINEER. CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE JOB MUST BE IDENTIFIED BEFORE PROCEEDING WITH THE WORK.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY, BEFORE PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND SERVICES BEFORE EXCAVATION AND SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGED SERVICES.
6. ENGINEER MUST BE NOTIFIED OF ANY CHANGE OR DEVIATION FROM THE DRAWINGS.
7. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-S16-14.
2. ALL PIPE SHALL CONFORM TO CSA ASTM A500 – GRADE C (45 KSI).
3. ALL PLATING AND HSS SQUARE SHALL CONFORM TO CSA C40.20 300W (44 KSI) UNLESS NOTED OTHERWISE.
4. FABRICATOR SHALL BE CERTIFIED ACCORDING TO CSA STANDARD W47.1 DIVISION 1 OR 2, LATEST EDITION.
5. NO DRILLING OR CUTTING AFTER FABRICATION OF STRUCTURAL STEEL UNLESS APPROVED.
6. ALL STRUCTURAL STEEL SURFACES THAT ARE FIELD WELDED TO BE LIBERALLY PAINTED WITH RED OXIDE PRIMER AND 2-COATS OF RUST INHIBITING ENAMEL AFTER WELDING.

HANDRAIL/GUARD NOTES

1. ALL GUARDS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
2. FABRICATOR TO GRIND SMOOTH ALL EDGES AND WELDS PRIOR TO PAINTING.
3. FABRICATOR TO PROVIDE VENT HOLES AS REQUIRED IN ALL SEALED ASSEMBLIES.
4. CONTRACTOR SHALL NOT MEASURE FOR THE NEW GUARD AND/OR HANDRAILS UNTIL THE COMPLETE RETAINING WALL ASSEMBLIES HAVE BEEN INSTALLED.

STEEL PREPARATION & COATINGS – GUARDS

1. ALL CARBON STEEL SHALL BE PREPARED AND SHOP PAINTED AS SPECIFIED BELOW.
2. SURFACE PREPARATION SHALL BE COMMERCIAL BLAST OR WHEEL ABRADED PER STEEL STRUCTURES PAINTING COUNCIL STANDARD SSPC-SP6, WITH GRIT SIZE TO PRODUCE 1.0 TO 3.0 MIL BLAST PROFILE.
3. APPLICATION METHODS, TEMPERATURE AND RE-COAT TIME SHALL BE IN STRICT ACCORDANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE PAINT MANUFACTURER.
4. MEASUREMENT OF DRY FILM THICKNESS SHALL BE IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL STANDARD PA-2.
5. PAINTING SYSTEM SHALL BE AS FOLLOWS:
 - a) PRIMER COAT – ZINC PRIMER 2-3 MILS DFT PER COAT (2 COATS REQUIRED), "CARBOZINC 11" BY CARBOLINE, SPRAY APPLIED WITHIN 8 HOURS AFTER BLAST CLEANING.
 - b) COLOUR COAT – CYCLOALIPHATIC AMINE EPOXY 4-6 MILS DFT PER COAT (2 COATS REQUIRED), CARBOGUARD 890 LT, SPRAY APPLIED.
 - c) FINISH COAT – ALIPHATIC ACYLIC-POLYESTER POLYURETHANE 3-5 MILS DFT PER COAT (2 COATS REQUIRED), "CARBOTHANE 1.33 HB", SPRAY APPLIED.
6. COLOUR SELECTION BY OWNER.
7. AN APPROPRIATE QUANTITY OF PAINT IS TO BE SUPPLIED FOR FIELD TOUCH UP.

FABRICATION NOTES

1. ALL STEEL SHALL BE NEW MATERIAL UNLESS NOTED OTHERWISE.
2. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO C.S.A. S16-1M.
3. ALL WELDING SHALL CONFORM TO C.S.A. AND W59M AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER C.S.A. W47.1.
4. SURFACES TO BE WELDED SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER.
5. ALL JOINTS SHALL BE WELDED USING 480 MPA STRENGTH ELECTRODES.
6. ALL WELDS TO BE CONTINUOUS ALL AROUND PART TO BE WELDED. MAXIMUM SIZE WELD FOR MATERIAL.
7. GRIND SMOOTH ALL ROUGH EDGES PRIOR TO PAINTING.

UNDERGROUND INFRASTRUCTURE

1. DURING THE COURSE OF EXCAVATION, IF BURIED INFRASTRUCTURE IS ENCOUNTERED, CONTACT THE ENGINEER TO REVIEW IN SITU MODIFICATIONS TO FOUNDATIONS.

SOIL BEARING CAPACITY NOTES

1. ALL FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON NATIVE SOILS, WITH A MINIMUM SOIL BEARING CAPACITY OF 2,000 psf (100 kPa). TO BE VERIFIED BY THE ENGINEER.
2. SHOULD POOR SOIL CONDITIONS EXIST AT THE SITE, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY, PRIOR TO COMMENCING CONSTRUCTION.
3. KEEP EXCAVATIONS CONTINUALLY DRY BEFORE CONCRETE OR RETAINING WALL BLOCKS ARE PLACED. REMOVE ANY LOOSE SOIL SOFTENED BY WATER PRIOR TO PLACING CONCRETE.
4. IF UNUSUALLY WET CONDITIONS ARE ENCOUNTERED DURING EXCAVATION, THE EXCAVATION MUST BE DE-WATERED PRIOR TO COMMENCING WORK.
5. IF ORGANIC MATERIALS ARE ENCOUNTERED DURING EXCAVATION, CONTACT THE DESIGNER IMMEDIATELY BEFORE COMMENCING WORK.
6. BOULDERS EXPOSED AT THE FOOTING SUB GRADE LEVEL ARE TO BE REMOVED AND HOLES FILLED WITH CONCRETE OR GRANULAR "A".

SHOP DRAWINGS

1. CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED FABRICATION DRAWINGS FOR ALL GUARDS, HANDRAILS, ETC. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE OF ONTARIO. FIELD MEASUREMENT SHALL NOT TAKE PLACE UNTIL ALL CONCRETE HAS BEEN PLACED.

RETAINING WALL

1. ALL BLOCKS SHALL BE 28 SERIES.
2. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
3. STRUCTURAL DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH DIV. B, PART 4 OF THE 2012 ONTARIO BUILDING CODE.
4. PLACE RETAINING WALL ON GRANULAR BASE ATOP COMPETENT NATIVE SOIL CAPABLE OF SUSTAINING AN ALLOWABLE SOIL BEARING CAPACITY OF 100 kPa (2000 psf)
5. UPON EXCAVATION AND PRIOR TO PLACING WALL, ALL DESIGN INFORMATION INDICATED SHALL BE VERIFIED BY ENGINEER TO ENSURE ASSUMED SOIL CONDITIONS ARE MET.
6. EXCAVATE TO A MINIMUM OF 12" BELOW FINISHED GRADE AT FRONT OF WALL OR UNTIL COMPETENT UNDISTURBED NATIVE SOIL IS REACHED.
7. PLACE MINIMUM 150mm (6") GRANULAR 'A' LEVELLING PAD FOR ALL WALLS 4 BLOCKS HIGH AND LOWER. WALLS 5 BLOCKS HIGH OR GREATER SHALL HAVE A 300mm (12") LEVELLING PAD, FOR THE FULL LENGTH AND WIDTH OF THE EXCAVATION. GRANULAR LEVELLING PAD TO BE COMPACTED IN 150mm (6") LIFTS TO 98% SPDD. GRANULAR MATERIAL IN FRONT OF TOE OF WALL TO BE SIMILARLY COMPACTED.
8. WIDTH OF EXCAVATION SHOULD ALLOW FOR THE THICKNESS OF THE FIRST COURSE PLUS A DISTANCE ON EACH SIDE OF THE WALL EQUAL TO THE DEPTH OF FILL BELOW THE FIRST COURSE.
9. BACKFILL AGAINST THE WALL WITH FREE DRAINING GRANULAR 'B'.
10. SUBDRAIN TO BE INSTALLED WITH A 2% GRADIENT BEHIND WALL, DISCHARGING AT GRADE OR INTO A STORM SEWER OR APPROVED OUTLET.
11. RETAINING WALL TO BE CONSTRUCTED IN A RUNNING BOND PATTERN (I.E. STAGGER JOINTS).
12. FOR IRREGULAR CORNERS, MITRE CUT THE RETAINING WALL BLOCKS.

CONCRETE

1. CONCRETE IS SPECIFIED USING ALTERNATIVE NUMBER OF CSA A23.1 TABLE 2 AS FOLLOWS:

	SIDEWALK
EXPOSED CLASS (TABLE 1)	C2
AIR CONTENT (TABLE 4)	1
MAX. W/C RATIO (TABLE 2)	0.45
CURING TYPE (TABLE 20)	2
MIN. COMPRESSIVE STRENGTH @ 28 DAYS	32 MPa

2. AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF CONCRETE THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW:
 - A VALID 'CERTIFICATE OF READY MIXED CONCRETE PRODUCTION FACILITIES' OR A VALID 'CERTIFICATE OF MOBILE MIX CONCRETE PRODUCTION FACILITIES' AS ISSUED BY THE 'READY MIXED CONCRETE ASSOCIATION OF ONTARIO' TO THE PLANT BEING USED.
 - A COMPLETED 'CONCRETE MIXED DESIGN SUBMISSION FORM'
 - A QUALITY PLAN THAT DESIGNATES A SPECIFIED SLUMP OR SOME OTHER MEASURE OF WORKMANSHIP
 - TEST RESULTS TO SHOW COMPLIANCE WITH CSA A23.1
 - AIR VOID SYSTEM OF HARDENED CONCRETE.
 - STATISTICAL STRENGTH TEST ANALYSIS TO CONFIRM THE STRENGTH LEVEL FOR EACH CLASS OF CONCRETE INCLUDING THE EXPECTED 7/28 DAY STRENGTH RATIO

ASPHALT

ALL AREAS REQUIRING ASPHALT REPLACEMENT OR REPAIR SHALL BE CONSTRUCTED AS FOLLOWS:

1. SUPPLY AND INSTALL GRANULAR "A", COMPACTED TO 98% SPDD TO U/S OF EXISTING ASPHALT.
2. SUPPLY AND INSTALL 60MM OF HL3 ASPHALT.

EXCAVATION NOTES

1. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT FOR ACCEPTABLE SIDE SLOPES.
2. EXCAVATIONS TO BE EXTENDED TO THE DEPTHS INDICATED.
3. ALL EXCAVATIONS SHALL BE SHEETED, DITCHED, DE-WATERED AS REQUIRED TO PLACE THE RETAINING WALL IN THE DRY.
4. ALL UNDISTURBED NATIVE SOIL SHALL BE PROOF ROLLED PRIOR.
5. DESIGN BEARING PRESSURE = 100 kPa (2000 psf).
6. EXCESS SOILS ARE TO BE RE-DISTRIBUTED ON SITE.

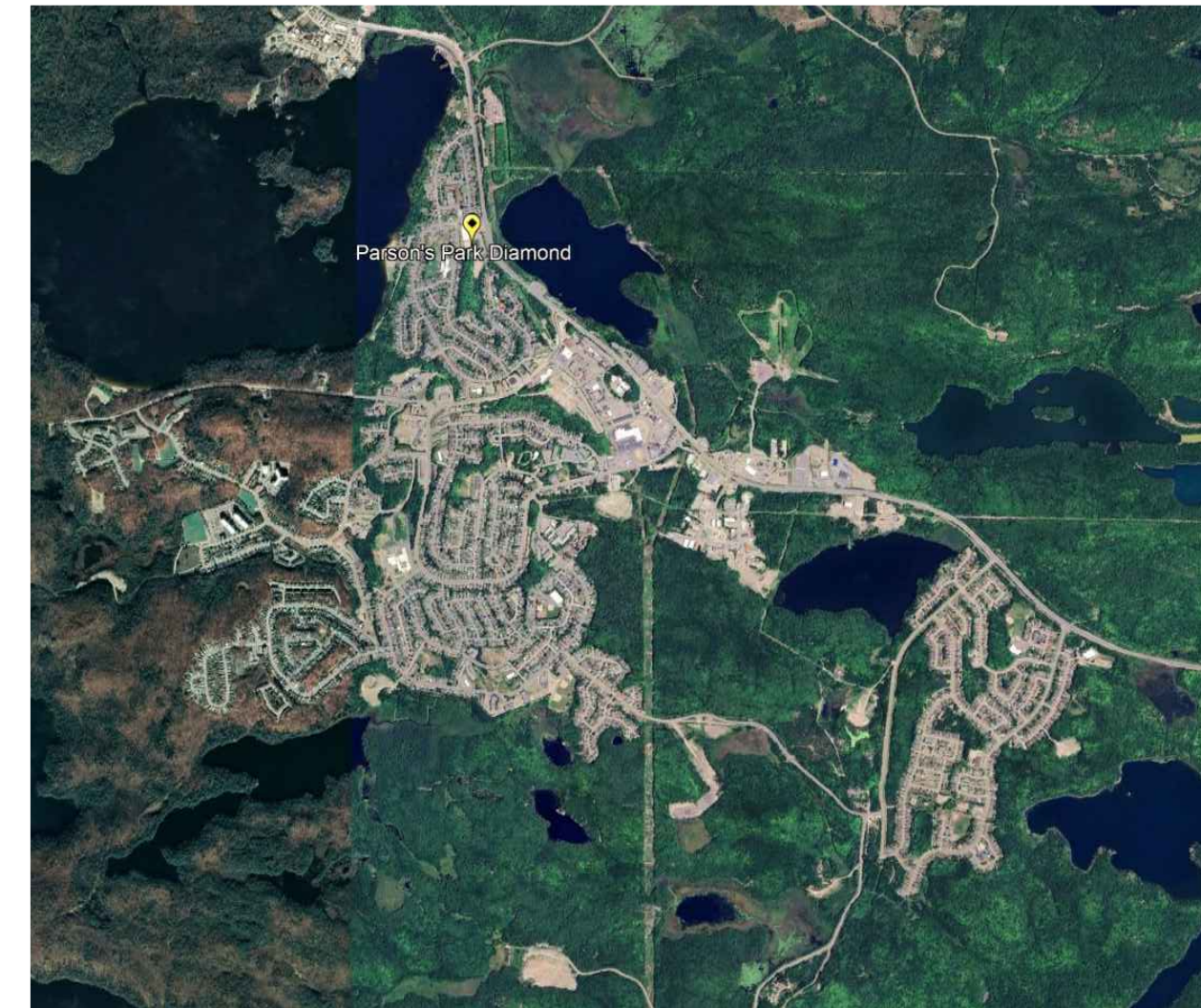
MATERIALS TESTING AND INSPECTION

1. THE CONTRACTOR SHALL INCLUDE COSTS TO ENSURE THAT THE FOLLOWING QUALITY CONTROL ACTIVITIES ARE UNDERTAKEN DURING THE COURSE OF WORK:
 - 1.1. COMPACTION TESTING AS SPECIFIED ON THE DRAWINGS.
 - 1.2. REBAR INSPECTION PRIOR TO CONCRETE PLACEMENT.
 - 1.3. CONCRETE TESTING IN ACCORDANCE WITH CSA A23.1 & A23.2.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SCHEDULE ALL MATERIALS TESTING AND INSPECTION ACTIVITIES.

LANDSCAPING RESTORATION

ALL AREAS WHERE EXISTING LANDSCAPING FEATURES ARE NOTED TO BE REMOVED SHALL BE RESTORED AS FOLLOWS:

1. INFILL EXCAVATIONS WITH COMPACTED GRANULAR "A".
2. SUPPLY AND INSTALL MINIMUM 100mm OF TOPSOIL AND SOD.
3. BE RESPONSIBLE TO WATER THE SOD UNTIL ESTABLISHED. BE RESPONSIBLE TO PROVIDE REQUIRED WATER.



KEY PLAN
SCALE: NTS

SCOPE OF WORK

1. REMOVE EXISTING WOOD STAIRS, BLEACHERS AND RETAINING WALLS.
2. CONSTRUCT NEW STAIRS AND RETAINING WALL.
3. RESHAPE GROUND AND ACCESS PATHS.
4. TEMPORARY REMOVAL OF EXISTING DUGOUT SHELTER TO REMOVE EXISTING PIERS.
5. REINSTALL DUGOUT SHELTER ON NEW PIERS, PEDESTALS AND ANCHORS.

SITE CLEAN UP

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE ON A DAILY BASIS THROUGHOUT CONSTRUCTION. ALL DEBRIS AND WASTE TO BE DISPOSED OF IN A LEGAL LANDFILL SITE.
2. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE THE INTERIOR AND EXTERIOR CONDITIONS TO A PRE-CONSTRUCTION STATE (INCLUDING, BUT NOT LIMITED TO SITE CLEANUP, GRADING, RAKING, INTERIOR AND EXTERIOR SWEEPING, AND OR POWER WASHING).

WORK SEQUENCING

1. PLAN THE WORK SUCH THAT ALL AREAS OF RETAINING WALL TO BE REMOVED IN A SINGLE WORK DAY CAN BE REPLACED PRIOR TO THE END OF THE WORK DAY.

ALL DIMENSIONS ARE BASED ON TOPOGRAPHIC SURVEY DATA, IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO ORDERING MATERIAL.

DIMENSIONS SHOWN ARE INTENDED FOR GENERAL LAYOUT PURPOSES ONLY. EXACT DIMENSIONS SHALL BE DETERMINED ON SITE TO SUIT EXISTING CONDITIONS.

RESOURCES SCHEDULE (REDI-ROCK BLOCK)

BLOCK TYPE	QUANTITY
R-28 BOTTOM BLOCKS	31
R-28 BOTTOM HALF BLOCK	0
R-28 MIDDLE BLOCKS	60
R-28 MIDDLE HALF BLOCK	1
R-28 TOP BLOCKS	29
R-28 TOP HALF BLOCKS	1

KEY PLAN

DATE	REV.	REVISION	BY	APP'D
24.10.28	0	ISSUED FOR TENDER	C.M.	J.A.

ENGINEER'S SEAL:

CLIENT:

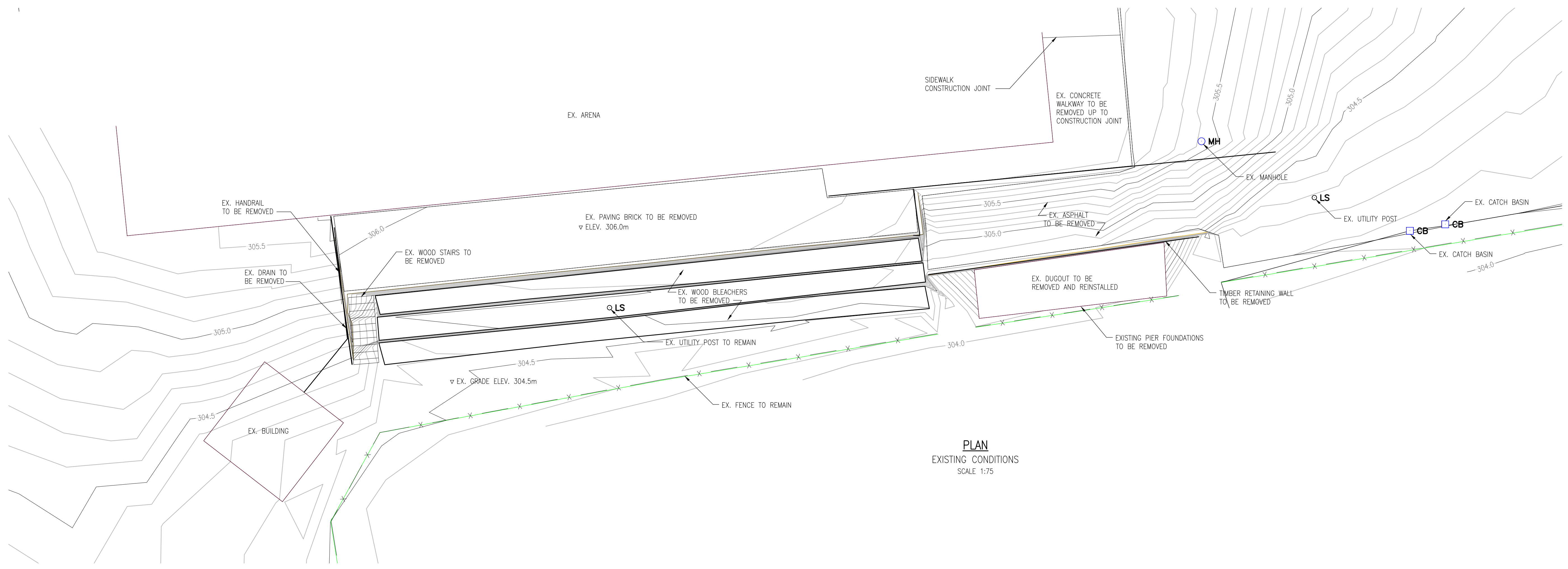
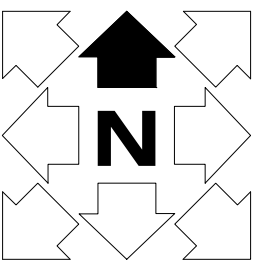
CONSULTANT:

DRAWING TITLE:
**PARSONS FIELD
BALL DIAMOND
NEW RETAINING WALL
GENERAL NOTES**

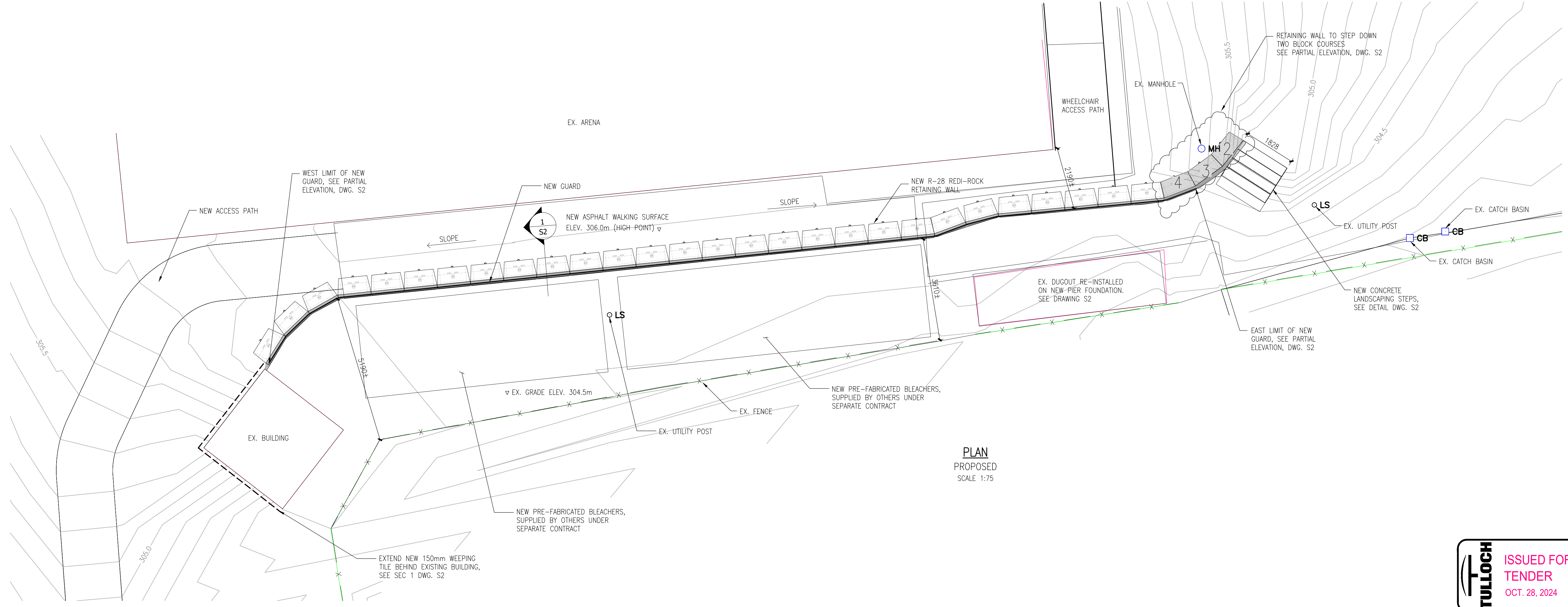
C.M.	J.A.	J.A.	J.A.
DRAWN	DESIGNED	CHECKED	APPROVED

As Noted SCALE **SEP. 09, 2024** DATE

24-0901-103	0	G1
PROJECT No.	REVISION	DRAWING



PLAN
EXISTING CONDITIONS
SCALE 1:75





PLAN
PROPOSED
SCALE 1:75

KEY PLAN

24.10.28	0	ISSUED FOR TENDER	C.M.	J.A.
DATE	REV.	REVISION	BY	APP'D

ENGINEER'S SEAL:

CLIENT:

Elliot Lake
THE CITY OF ELLIOT LAKE
45 HILLSIDE DRIVE NORTH
ELLIOT LAKE, ONTARIO

CONSULTANT:

TULLOCH

DRAWING TITLE:
PARSONS FIELD
BALL DIAMOND
NEW RETAINING WALL
PLANS

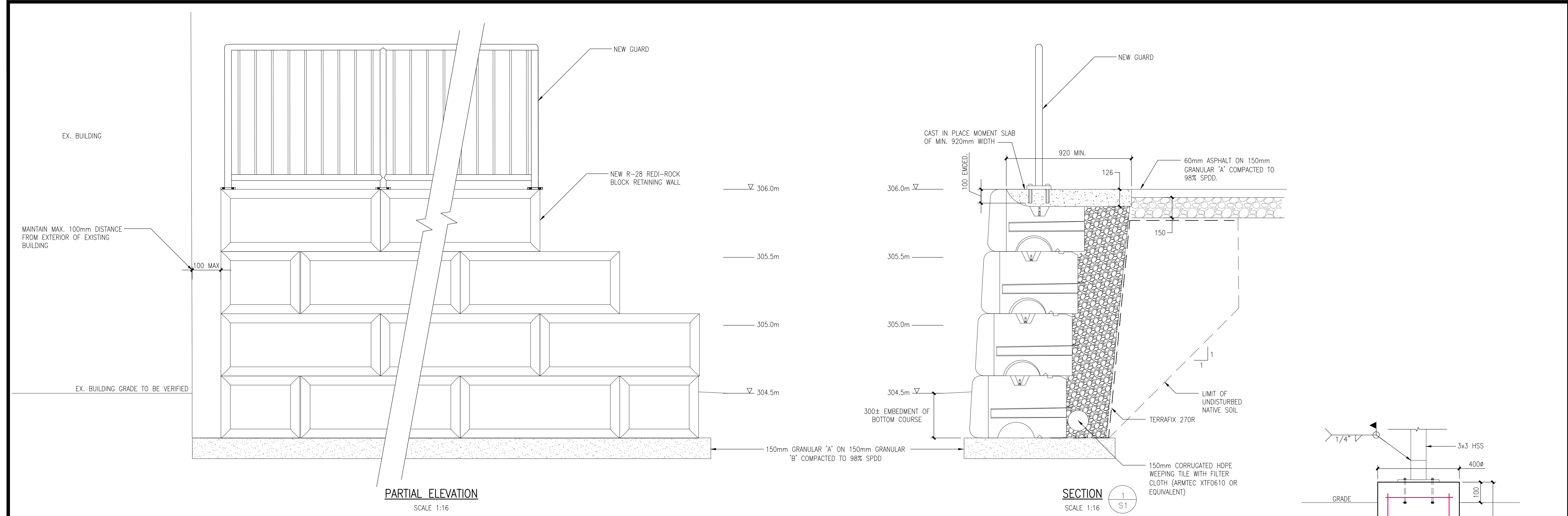
C.M.	J.A.	J.A.	J.A.
DRAWN	DESIGNED	CHECKED	APPROVED

As Noted **SEP. 09, 2024**

SCALE	DATE
24-0901-103	0
PROJECT No.	REVISION
S1	DRAWING

TULLOCH **ISSUED FOR TENDER**
OCT. 28, 2024

P:\2024\1001 City of Elliot Lake - Retain and Resurface Parsons Field Ball Diamond Retaining Wall\A. Structural Retain\101-103 - Parsons Field Retaining Wall.dwg




PARTIAL ELEVATION
SCALE 1:16

SECTION
SCALE 1:16

KEY PLAN

24.10.28	0	ISSUED FOR TENDER	C.M.	J.A.
DATE	REV.	REVISION	BY	APP'D

ENGINEER'S SEAL:

CLIENT:

Elliot Lake
 THE CITY OF ELLIOT LAKE
 45 HILLSIDE DRIVE NORTH
 ELLIOT LAKE, ONTARIO

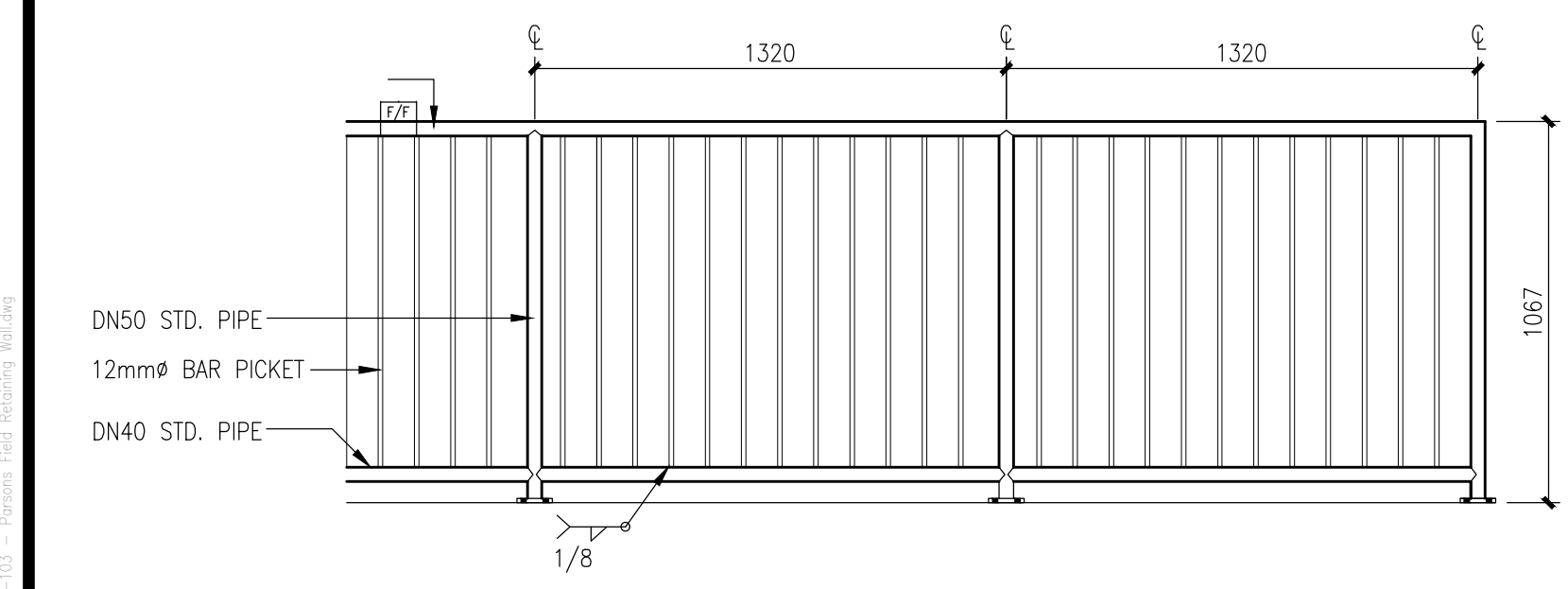
CONSULTANT:


DRAWING TITLE:
**PARSONS FIELD
 BALL DIAMOND
 NEW RETAINING WALL
 SECTIONS AND DETAILS**

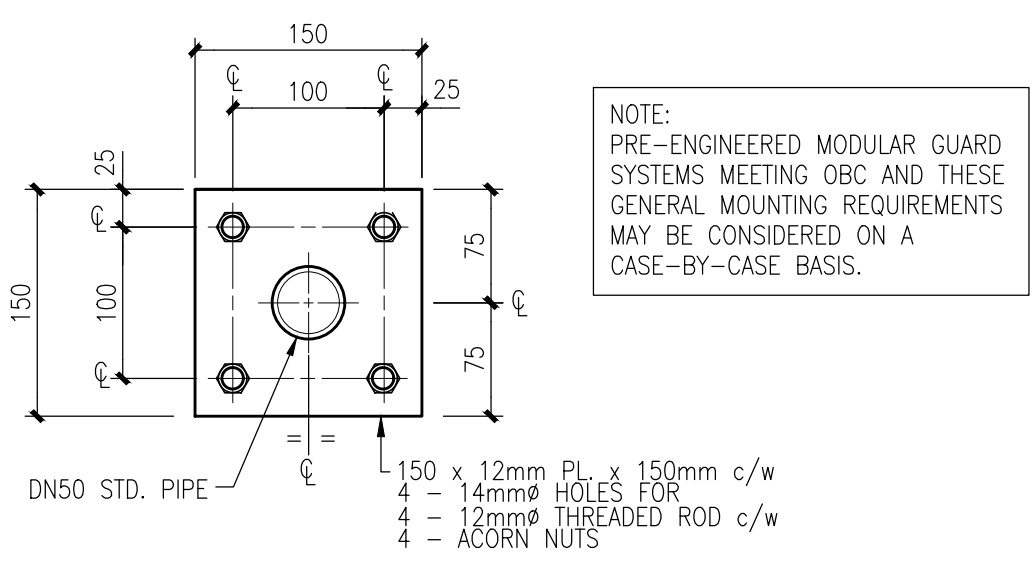
C.M.	J.A.	J.A.	J.A.
DRAWN	DESIGNED	CHECKED	APPROVED
As Noted		SEP. 09, 2024	
SCALE		DATE	

24-0901-103	0	S2
PROJECT No.	REVISION	DRAWING

TULLOCH ISSUED FOR TENDER
OCT. 28, 2024

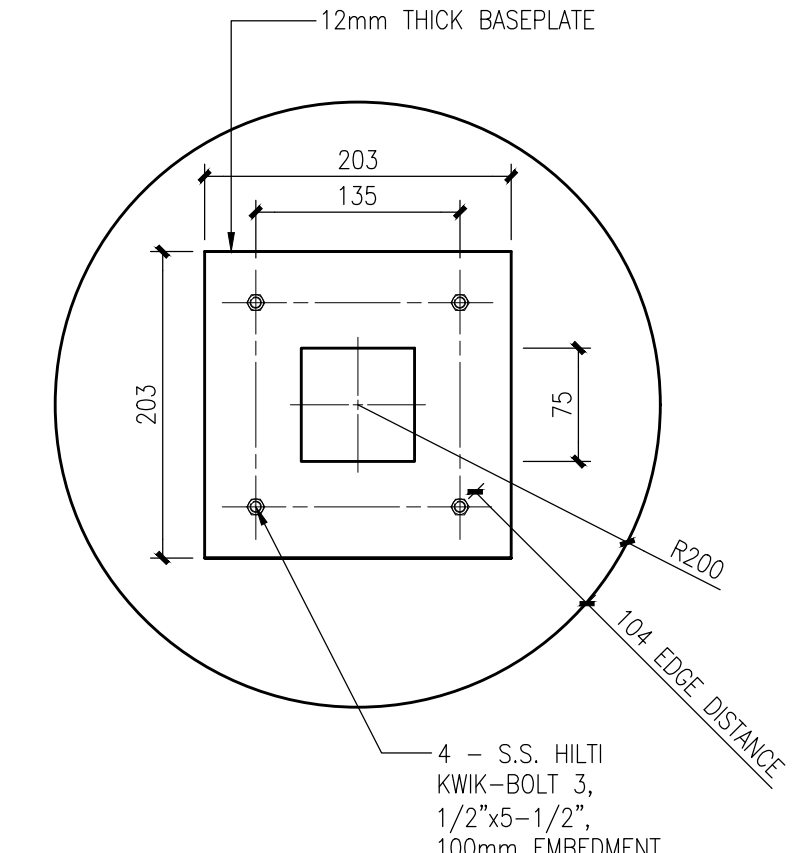


TYPICAL GUARD DETAILS
SCALE 1:20

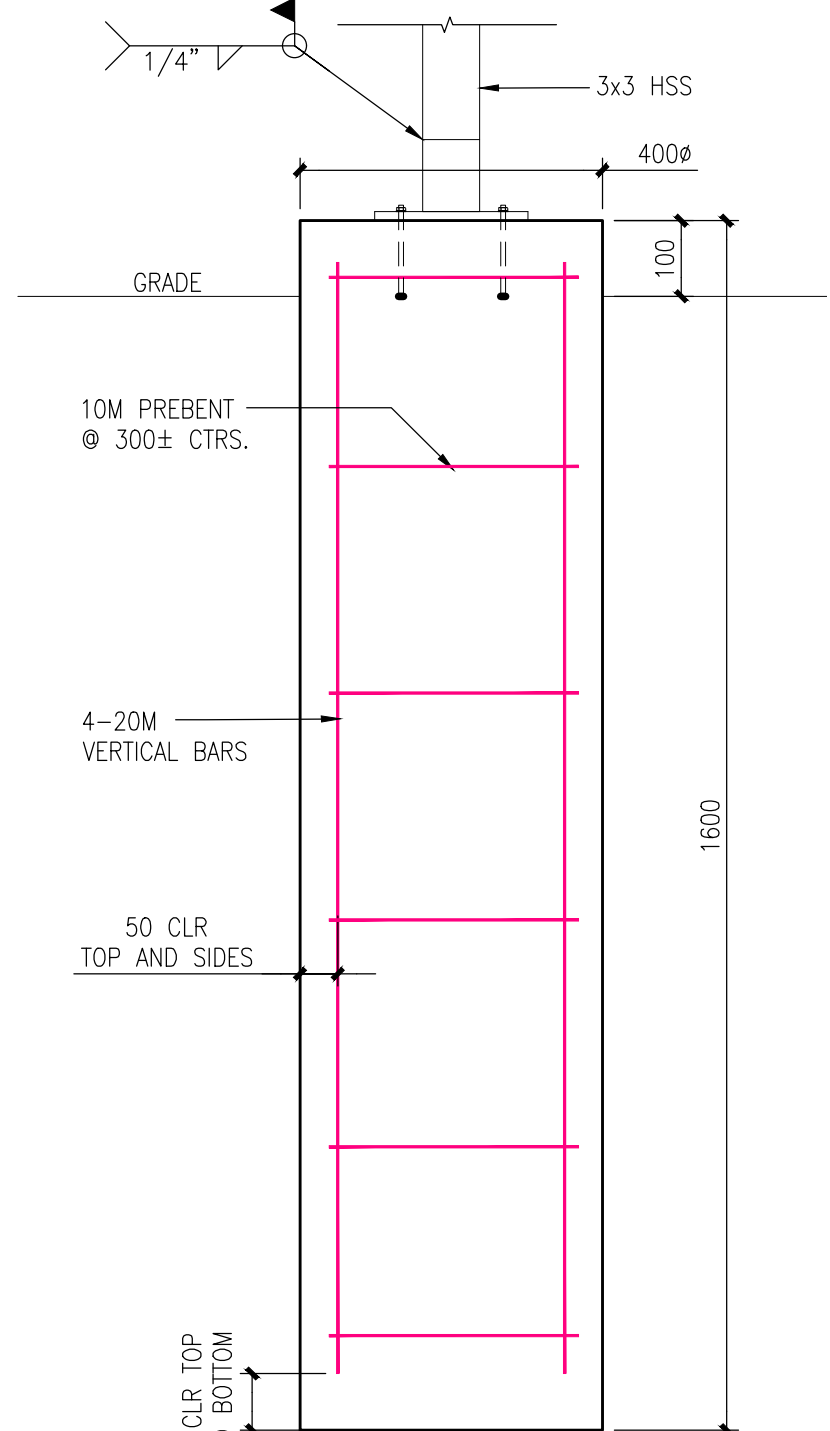


BASE PLATE DETAIL
SCALE 1:5

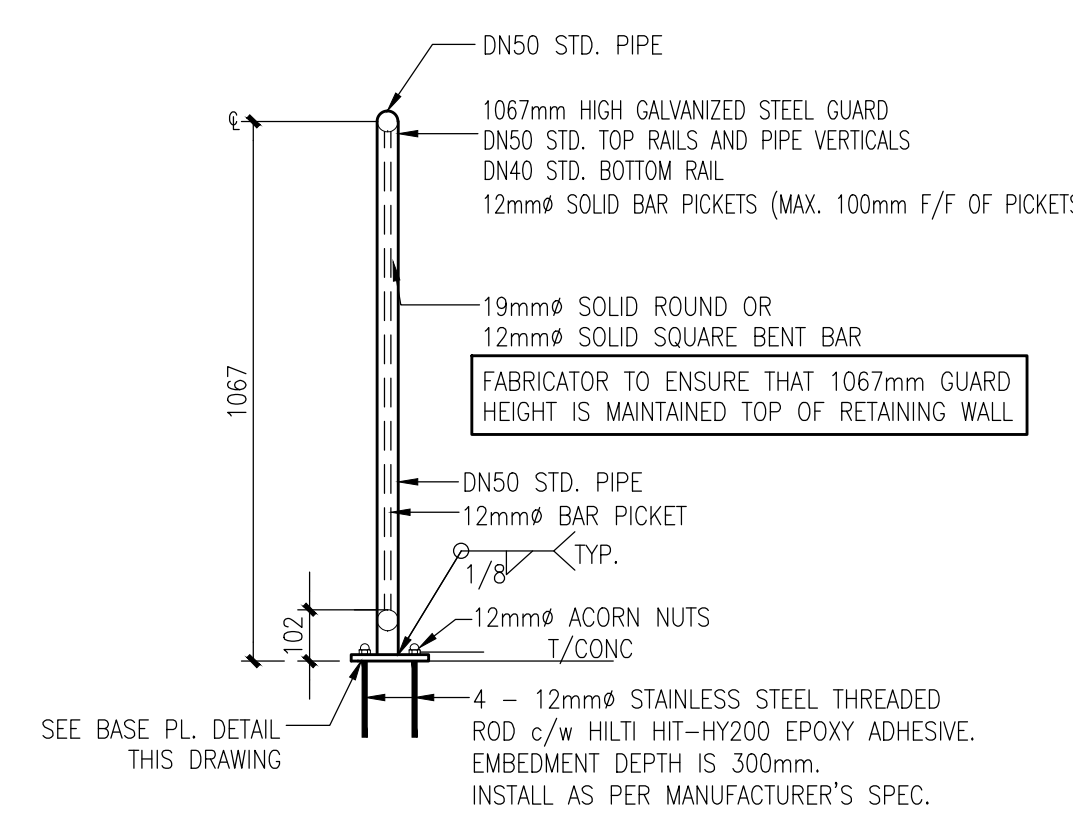
NOTE:
 PRE-ENGINEERED MODULAR GUARD SYSTEMS MEETING OBC AND THESE GENERAL MOUNTING REQUIREMENTS MAY BE CONSIDERED ON A CASE-BY-CASE BASIS.



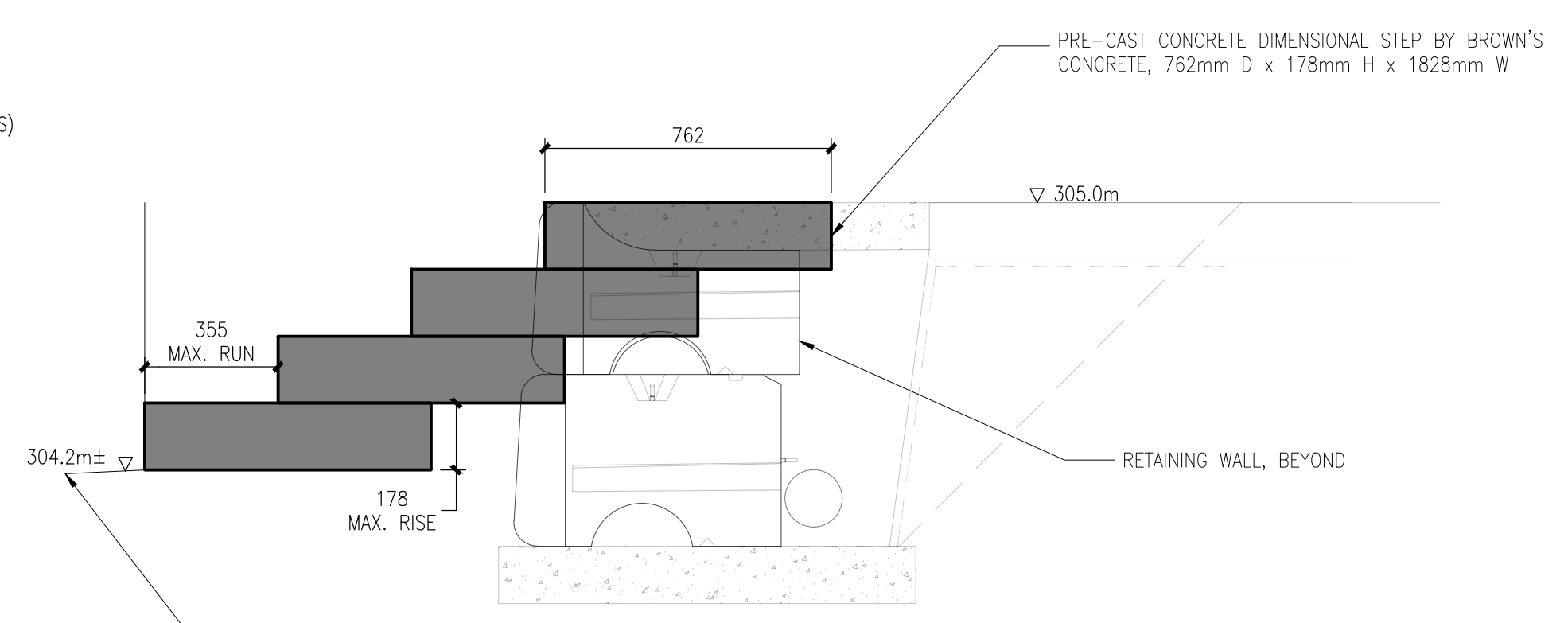
DUGOUT PIER AND BASEPLATE DETAIL
SCALE 1:5



DUGOUT PIER SECTION
SCALE 1:10

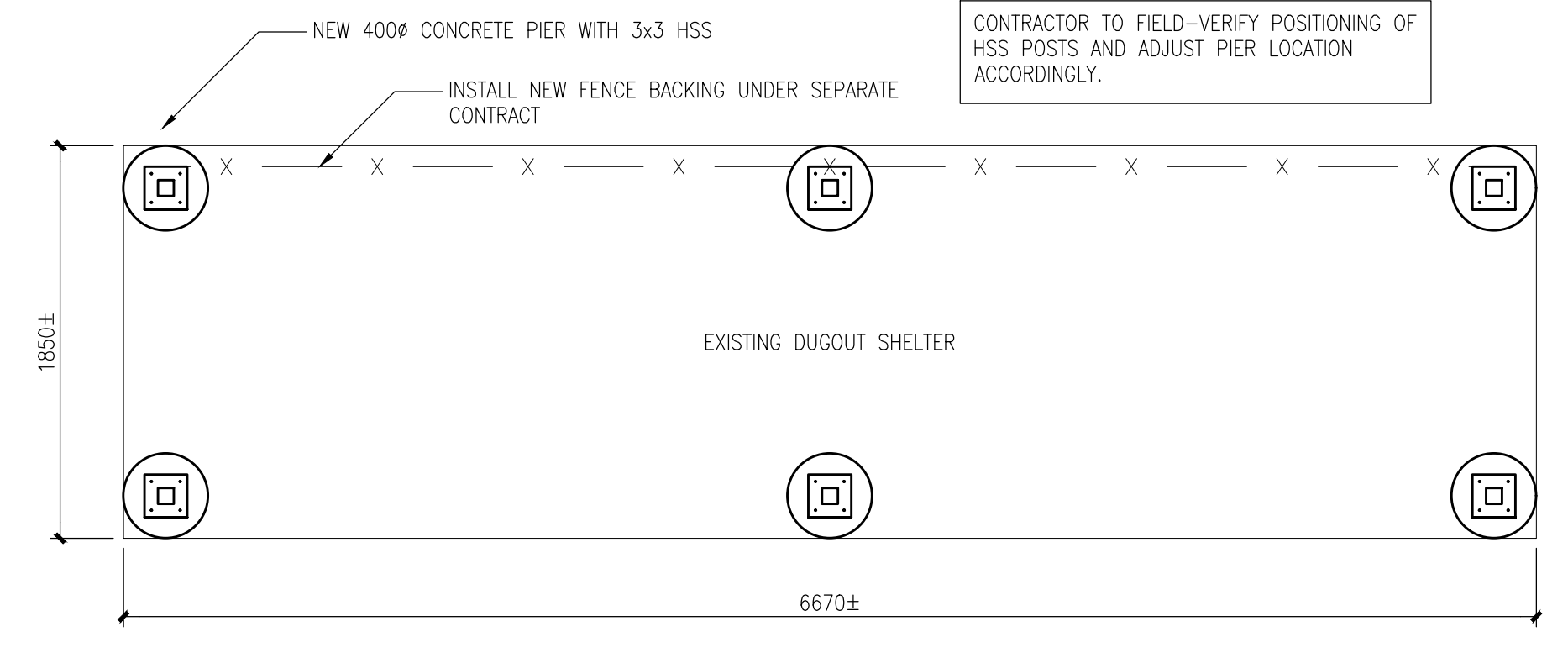


GUARD/HANDRAIL ASSEMBLY
SCALE 1:15



PRE CAST DIMENSIONAL STEP DETAIL
SCALE 1:16

NOTE:
 PRE-CAST CONCRETE STEPS TO BEAR ON GRANULAR 'A' FILL COMPACTED TO 100% SPDD. PER 2012 OBC, ONE HANDRAIL IS TO BE INSTALLED TO MANUFACTURER'S INSTRUCTIONS.



NEW PIER LOCATION PLAN
SCALE 1:30

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